

APPENDIX E

MAULSBY MARSH SEDIMENT RESULTS

Description: Provides a data report summarizing the results of the sediment sampling and characterization for Mulsby Marsh. It includes a summary of the field sampling collection performed, validated chemical analyses, and the salinity testing. This data is used to confirm that contaminants detected in the marsh sediments are not attributable to Site releases.

MAULSBY MARSH SEDIMENT CHARACTERIZATION

Jeld-Wen, Inc.

Former Nord Door Site
300 West Marine View Drive
Everett, Washington 98201

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March 2021

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1 Introduction

Maulsby Marsh is located immediately east of the JELD-WEN former Nord Door facility located at 300 West Marine View Drive, Everett, Washington, 98201 (JELD-WEN Site), on the other side of Marine View Drive and the Burlington Northern Santa Fe (BNSF) railroad tracks from the Site (Figure E-1). Evaluations of soil conditions adjacent to the marsh in the BNSF right-of-way are summarized in the main body of the 2020 Remedial Investigation/Feasibility Study (RI/FS) Report.

1.1 Overview of Sediment Characterization

As part of initial RI/FS activities at the JELD-WEN Site, sediment sampling in Maulsby Marsh was performed in 2012. Sampling locations are depicted in Figure E-2. Sediment samples were collected and analyzed in a tiered approach as described in the sampling and analysis plan (SAP) (Attachment 1 of the Quality Assurance Project Plan [QAPP]; Anchor QEA 2012). Chemical analyses included polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH; Dx [diesel range]), extractable petroleum hydrocarbons (EPH), metals, semivolatile organic compounds (SVOCs), organochlorine pesticides, and conventional sediment parameters as listed in the QAPP Tables 4 and 5 (Anchor QEA 2012). Tiered sample collection and analysis was performed as follows:

- Eighteen sediment samples were collected in May 2012 (Figure E-2).
- The nine surface sediment samples located closest to the BNSF railroad tracks (MS001 through MS009) were submitted to the laboratory for analysis of PCBs, pesticides, metals, SVOCs, TPH, and sediment conventional analyses including grain size, total solids, total organic carbon, ammonia, and total sulfides. Materials collected from the remaining sample locations were submitted to the laboratory as archive samples.
- A portion of each sample was archived for possible EPH testing. All TPH testing was initially conducted on the first tier of nine samples collected using Northwest TPH (NWTPH) methods. The four sediment samples with the highest NWTPH concentrations, (MS001, MS002, MS003, and MS006) were tested further for EPH to further characterize the nature of hydrocarbons in these samples.

Maulsby Marsh sediment sampling and analysis data were also uploaded to the Washington State Department of Ecology (Ecology) EIM system following validation.

This document provides a summary of results from the first tier of sediment characterization work and includes a summary of the field sampling collection performed, validated chemical analyses, and the salinity testing. The scope of the sampling and analysis effort is described in the SAP (Attachment 1 to the QAPP; Anchor QEA 2012). This document also contains the grab collection and

processing forms (Attachment E-1), summaries of the chemical analyses and the raw data from the chemical analyses (Attachment E-2), and results from the data validation (Attachment E-3).

Based on review of the data summarized below, chemicals detected in the marsh sediments were not attributable to releases from the JELD-WEN Site. Therefore, no additional analysis of this area was required for the RI/FS, and archived samples were disposed of in consultation with Ecology.

1.2 Malsby Marsh Salinity Monitoring

Water quality monitoring to characterize the salinity levels was performed at three locations: 1) at the marsh inlet; 2) in the north portion of the marsh; and 3) in the south portion of the marsh. Sample locations were determined in the field and are shown in Figure E-2. Water quality measurements for salinity were collected during the outgoing tide, just after the beginning of the ebb on May 30, 2012, following procedures described in the SAP.

2 Sample Collection and Handling

This section summarizes sediment sampling and processing and salinity measurements in the Maulsby Marsh area. Sediment sampling and processing and salinity measurements were performed in accordance with the SAP (Anchor QEA 2012).

2.1 Sediment Grab Sample Collection and Processing

Surface sediment samples were collected and processed from 18 locations within the Maulsby Marsh area (Figure E-2). Samples were collected on May 15, 2012, and submitted for tiered analysis as described in Section 1.1. Target sample locations were located using a Differential Global Positioning System (DGPS). Sediment sampling locations are shown in Figure E-2; Table E-1 presents the coordinates for the sampling locations. Surface sediment samples were collected from the 0- to 10-centimeter (cm) sediment interval for chemical and physical testing using hand collection procedures where sediments were exposed and using an Ekman-type grab sampler at locations that were covered by water.

Sediments collected were placed into a decontaminated bowl and homogenized using a stainless-steel spoon until the sediment appeared uniform in color and texture. Samples for total sulfide analysis were collected prior to sample homogenization as described in the SAP. Homogenized sediment was placed into appropriate pre-labeled sample containers and immediately placed into a cooler equipped with ice for transport to the laboratory. Prior to processing, sediments collected were described on field log forms. Copies of the field log forms are presented in Attachment E-1.

2.2 Maulsby Marsh Salinity Monitoring

Salinity monitoring was performed following an average high tide event on May 15, 2013 at three stations, as described in Section 1.2. Monitoring locations were accessed on foot; monitoring locations were identified using DGPS. Monitoring locations are listed in Table E-2 and presented in Figure E-2. Measurements were collected using a YSI 556 multi-parameter probe to collect measurements of temperature, conductivity, pH, salinity, and dissolved oxygen at each location.

Salinity measurements were made at the inlet of Maulsby Marsh from the edge of a small pool with approximately 8 inches of water. Water depth at the northern and southern locations of the marsh was generally only 2 inches deep. Salinity measurements were made at mid-depth within the water column at each location. Water quality measurements were recorded twice for each location to confirm that readings had stabilized. An average value for each parameter is presented for each location in Table E-2. Field log forms for salinity measurements are included in Attachment E-1.

3 Chemical Analysis

All sediment samples collected for analysis were submitted to Analytical Resources, Inc. (ARI) in Tukwila, Washington, according to procedures specified in the QAPP. As described in Section 1.1, the samples collected for the first tier of chemical characterization were submitted for the analysis of PAHs, PCBs, TPH-Dx (diesel range), EPH, metals, SVOCs, organochlorine pesticides, and conventional sediment parameters. The four samples with the highest TPH results (MS001, MS002, MS003, and MS006) were triggered for the analysis of EPH to further distinguish the different hydrocarbons present in these samples. Sediment chemical results and screening against Sediment Management Standards freshwater criteria are summarized in Table E-3. Some conventional, metal, and semivolatile organic compounds exceed the criteria, but are not related to Site-related chemicals.

4 Data Quality Summary

A review of the validation reports indicated that the overall data quality of the chemistry data generated is acceptable for use in site characterization. Laboratory results and raw data are presented in Attachment E-2.

Detailed data quality objectives and quality assurance (QA) procedures are provided in the QAPP (Anchor QEA 2012). Laboratory data packages were validated by Laboratory Data Consultants, Inc. (LDC) in Carlsbad, California, following U.S. Environmental Protection Agency (EPA) National Functional Guidelines (EPA 1999, 2004, 2008) and using the data quality objectives described in the QAPP (Anchor QEA 2012). All data went through Stage 2B validation (EPA 2009). Any data qualifiers applied to the data during the final validation procedures have been incorporated into the final database for this project. Data qualifiers assigned as a result of the data validation and their definitions are shown on the analytical results tables. All data were considered useable as reported or as qualified, and no data were rejected. The data may have been qualified as estimated for a particular analysis or analyte based on method or technical criteria outlined in the QAPP or as stated in the functional guidelines (EPA 1999, 2004, 2008). Data qualified with a "J" indicate that the associated numerical value is the approximate concentration of the analyte. Data qualified with a "UJ" indicate the approximate Practical Quantitation Limit (PQL) below which the analyte was not detected. In some cases, PQLs were elevated due to variations in sample size, moisture content, method blank contamination, or dilutions required to quantitate target analytes or overcome matrix interference. Results detected between the PQL and the MDL or EDL were qualified "J" by the laboratory to indicate they are estimated. The LDC validation report is presented in Attachment E-3.

4.1 Malsby Marsh Sediments

Malsby Marsh sediment samples were collected on May 15, 2012. The analytical methods and laboratories, sample transport and custody, field quality control, and laboratory quality control are discussed below.

4.1.1 *Analytical Methods and Laboratories*

All analyses were conducted at ARI in Tukwila, Washington, which is Ecology and National Environmental Laboratory Accreditation Conference (NELAC) certified for the analyses conducted. ARI followed the methods outlined in QAPP Table E-4, with a few exceptions. These exceptions were either equivalent methods or more updated versions of methods current when the QAPP was written so data are not expected to be impacted.

4.1.2 Sample Transport and Holding Times

Samples were received at the laboratories in good condition and within the recommended temperature range of 0°C to 6°C. Samples were prepared and analyzed within hold times outlined in the QAPP (Anchor QEA 2012).

4.1.3 Field Quality Control

Field quality control samples consisted of homogenization duplicates, equipment rinsate blanks, and field blanks. Field quality control samples were collected at the required frequencies. Field quality control results are discussed in detail in the data validation reports.

Field duplicate samples were analyzed for the same parameters as the parent samples and no results were qualified based on field duplicate results. Field and rinsate blanks were analyzed for metals, TPH, pesticides, and PCB Aroclors. Results were below detection with the exceptions of the low-level detections of copper, dimethyl phthalate, and din-n-butyl phthalate in the field blank, and dimethyl phthalate in the rinse blank. Sample results are not expected to be impacted and no data were qualified based on field blank results.

4.1.4 Laboratory Quality Control

The validation report indicates the majority of the data results did not require qualification. Some data were qualified as estimated based on data quality objective or method exceedances. Some sample results were qualified as estimated due to calibration results outside of method control limits, or surrogate, matrix spike (MS) and/or matrix spike duplicate (MSD) recoveries, laboratory control sample (LCS), and/or laboratory control sample duplicate (LCSD) recoveries outside of the project-specified control limits. All data are usable as reported or as qualified.

5 References

- Anchor QEA, LLC (Anchor QEA). 2012. *Quality Assurance Project Plan. Marine and Maulsby Marsh Sediment Characterization, Jeld-Wen Former Nord Door Site*. Prepared for Jeld-Wen, May 2012.
- Anchor QEA. 2012. *Sampling and Analysis Plan. Marine and Maulsby Marsh Sediment Characterization, Jeld-Wen Former Nord Door Site*. Prepared for Jeld-Wen, May 2012.
- EPA (U.S. Environmental Protection Agency). 1999. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.
- EPA. 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October 2004.
- EPA. 2008. *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.
- EPA. 2009. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use*. U.S. Environmental Protection Agency Office of Solid Waste and Emergency Response. USEPA 540-R-08-005. January.

TABLES

**Table E-1
Maulsby Marsh Sediment Chemistry Sample Locations**

| Station Identification | Northing^a | Easting^a |
|-------------------------------|-----------------------------|----------------------------|
| MS001 | 373077.557 | 1303979.674 |
| MS002 | 372978.109 | 1303931.353 |
| MS003 | 372894.59 | 1303875.229 |
| MS004 | 372775.783 | 1303796.663 |
| MS005 | 372647.601 | 1303699.822 |
| MS006 | 372548.969 | 1303630.144 |
| MS007 | 372467.3 | 1303563.406 |
| MS008 | 372385.608 | 1303502.082 |
| MS009 | 372309.629 | 1303436.059 |
| MS010 | 372354.634 | 1303529.918 |
| MS011 | 372541.045 | 1303675.104 |
| MS012 | 372696.533 | 1303809.033 |
| MS013 | 372813.933 | 1303884.242 |
| MS014 | 373006.503 | 1304013.117 |
| MS015 | 372895.999 | 1303996.539 |
| MS016 | 372732.842 | 1303887.004 |
| MS017 | 372581.449 | 1303782.63 |
| MS018 | 372428.014 | 1303640.711 |

Notes:

a. NAD 83 US State Plane, Washington North Zone

**Table E-2
Maulsby Marsh Water Quality Sample Locations and Results Summary**

| Station Identification | Northing^a | Easting^a | Depth (in) | Temp (°C) | Sp. Cond (µS/ml) | pH (units) | Salinity (ppt) | DO (mg/L) |
|-------------------------------|-----------------------------|----------------------------|-------------------|------------------|-------------------------|-------------------|-----------------------|------------------|
| MM-SAL-North | 372899.612 | 1303977.058 | 2 | 27.87 | 2785.50 | 7.88 | 1.35 | 7.45 |
| MM-SAL-South | 372109.391 | 1303374.751 | 2 | 28.28 | 5156.00 | 8.22 | 2.58 | 11.11 |
| MM-SAL-Outlet | 371628.675 | 1302936.102 | 8 | 20.90 | 3811.50 | 7.46 | 2.21 | 8.94 |

Notes:

a. North American Datum of 1983 (NAD 83) US State Plane, Washington North Zone

°C = degrees Celsius

DO= dissolved oxygen

in = inches

µS/ml = microsiemens per milliliter

mg/L = milligrams per liter

ppt = parts per thousand

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| Task | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Location ID | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 |
| Sample ID | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 |
| Sample Date | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Depth | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Type | N | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Conventional Parameters (mg/kg) | | | | | | | | | | |
| Ammonia | 132 | 130 | 213 | 170 | 178 | 71.1 | 17.9 | 33.2 | 12.6 | 117 |
| Sulfide | 2960 | 3100 | 2350 | 3640 | 4070 | 1840 | 20.5 | 718 | 1770 | 1720 |
| Conventional Parameters (pct) | | | | | | | | | | |
| Total organic carbon | 19.6 | 18.4 | 17.1 | 23.6 | 17.9 | 29 | 31.9 | 16.7 | 22.5 | 12.2 |
| Total solids | 10.2 | 10.2 | 10.4 | 9.3 | 10.3 | 9.2 | 9.8 | 16.8 | 10.7 | 10.1 |
| Total solids (preserved) | 9.7 | 9.7 | 10.5 | 10.9 | 10 | 8.3 | 6.9 | 19 | 8.1 | 10.6 |
| Grain Size (pct) | | | | | | | | | | |
| Gravel | 0.1 U | 11.8 | 0.4 | 7.5 | 4.6 | 19.1 | 16.2 | 1.2 | 44.1 | 5.5 |
| Sand, very coarse | 24.4 | 17.1 | 14.2 | 11.8 | 8.2 | 13.9 | 19 | 16.4 | 11.4 | 8.3 |
| Sand, coarse | 7.1 | 7.9 | 6 | 8.1 | 7.5 | 11.2 | 16.5 | 9.7 | 7.2 | 7 |
| Sand, medium | 4.5 | 4.8 | 4.4 | 5.7 | 6.7 | 9.5 | 12.6 | 8.2 | 5.4 | 6.3 |
| Sand, fine | 3 | 3.2 | 3 | 4 | 5.3 | 6.6 | 8 | 9.6 | 4.2 | 5.3 |
| Sand, very fine | 2.1 | 2.4 | 2.3 | 2.7 | 3.7 | 4.1 | 4.9 | 10.2 | 3.1 | 4.5 |
| Silt, coarse | 1.3 | 1 | 1.5 | 5.2 | 4.2 | 2.8 | 3.3 | 11.2 | 5.2 | 10.3 |
| Silt, medium | 13.1 | 11.5 | 18.8 | 24.5 | 25.2 | 4.1 | 2.4 | 9.7 | 2.6 | 12.2 |
| Silt, fine | 11.3 | 9.9 | 12.2 | 7.7 | 8.4 | 6.5 | 3.5 | 7.2 | 4.3 | 9 |
| Silt, very fine | 12.4 | 11.2 | 15.2 | 5.9 | 7.5 | 6 | 2.9 | 6.9 | 4.1 | 10.7 |
| Clay, coarse | 3.1 | 3.4 | 4.5 | 1.3 | 3.2 | 4.8 | 3.4 | 2.2 | 3 | 4.2 |
| Clay, medium | 3.3 | 3.4 | 5.4 | 2.5 | 3.7 | 2.3 | 2.3 | 2.2 | 2 | 4.1 |
| Clay, fine | 14.2 | 12.5 | 12.2 | 12.9 | 11.8 | 9.1 | 5 | 5.3 | 3.4 | 12.7 |
| Metals (mg/kg) | | | | | | | | | | |
| Antimony | 2 UJ | 2 UJ | 2 UJ | 2 UJ | 2 UJ | 3 J | 5 J | 1 UJ | 2 UJ | 2 UJ |
| Arsenic | 33 | 33 | 27 | 19 | 24 | 55 | 80 | 28 | 27 | 8 |
| Cadmium | 3.2 | 3.4 | 2.9 | 2.2 | 3 | 3 | 3 | 3.7 | 3 | 2 |
| Chromium | 37 | 38 | 41 | 32 | 34 | 25 | 17 | 40 | 37 | 43 |
| Copper | 129 | 125 | 139 | 78 | 99 | 251 | 91 | 111 | 94 | 66 |
| Lead | 170 | 170 | 150 | 100 | 110 | 1180 | 360 | 350 | 160 | 60 |
| Mercury | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.4 | 0.7 | 0.2 | 0.2 | 0.2 |
| Nickel | 50 | 42 | 46 | 30 | 40 | 40 | 33 | 44 | 37 | 38 |
| Silver | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 1 U | 2 U | 2 U |
| Zinc | 400 | 374 | 330 | 210 | 260 | 500 | 217 | 594 | 251 | 162 |
| Semivolatile Organics (µg/kg) | | | | | | | | | | |
| 4-Methylphenol (p-Cresol) | 1200 | 1600 | 1400 | 1100 | 690 | 3300 | 270 | 1800 J | 610 | 470 |
| Benzoic acid | 390 J | 640 J | 420 J | 330 J | 390 J | 3100 J | 3100 J | 1300 J | 740 J | 410 J |
| bis(2-Ethylhexyl)phthalate | 140 | 120 | 150 | 120 | 120 | 170 | 120 | 120 | 98 | 90 |
| Butylbenzyl phthalate | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U |
| Carbazole | 42 J | 57 J | 56 J | 60 U | 69 | 130 | 95 | 62 | 63 | 60 U |
| Dibenzofuran | 180 | 280 | 240 | 110 | 300 | 660 | 480 | 210 | 69 | 54 J |
| Dimethyl phthalate | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U |

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| Task | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Location ID | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 |
| Sample ID | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 |
| Sample Date | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Depth | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Type | N | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Di-n-butyl phthalate | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U |
| Di-n-octyl phthalate | 60 UJ | 60 UJ | 59 UJ | 60 UJ | 60 UJ | 59 UJ | 60 UJ | 59 UJ | 60 UJ | 60 UJ |
| Pentachlorophenol | 600 U | 160 J | 590 U | 600 U | 600 U | 590 U | 600 U | 590 U | 600 U | 600 U |
| Phenol | 300 | 400 | 260 | 180 | 200 | 1100 | 380 | 430 J | 190 | 100 |
| Retene | 74 | 100 | 80 | 32 J | 120 | 140 | 270 | 85 | 60 U | 60 U |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | |
| 2-Methylnaphthalene | 170 | 270 | 240 | 86 | 270 | 600 | 600 | 290 J | 66 | 36 J |
| Acenaphthene | 110 | 160 | 140 | 72 | 140 | 820 | 110 | 130 | 57 J | 60 U |
| Acenaphthylene | 74 | 130 | 86 | 60 | 78 | 250 | 220 | 140 | 39 J | 60 U |
| Anthracene | 140 | 180 | 170 | 120 | 180 | 350 | 220 | 170 | 110 | 51 J |
| Benzo(a)anthracene | 160 | 170 | 280 | 130 | 240 | 300 | 230 | 180 | 190 | 57 J |
| Benzo(a)pyrene | 260 | 270 | 470 | 250 | 380 | 330 | 250 | 270 | 220 | 80 |
| Benzo(b,j,k)fluoranthenes | 570 | 640 | 1000 | 580 | 970 | 970 | 650 | 540 | 420 | 180 |
| Benzo(g,h,i)perylene | 270 | 330 | 430 | 230 | 360 | 320 | 310 | 250 | 170 | 80 |
| Chrysene | 430 | 400 | 800 | 390 | 680 | 570 | 410 | 290 | 240 | 120 |
| Dibenzo(a,h)anthracene | 57 J | 54 J | 100 | 51 J | 87 | 95 | 54 J | 59 | 54 J | 60 U |
| Fluoranthene | 660 | 970 | 860 | 550 | 870 | 1900 | 1700 | 1100 | 600 | 290 |
| Fluorene | 120 | 170 | 160 | 74 | 170 | 450 | 130 | 120 | 66 | 42 J |
| Indeno(1,2,3-c,d)pyrene | 200 | 230 | 340 | 180 | 280 | 240 | 220 | 190 | 140 | 63 |
| Naphthalene | 1100 | 1800 | 1300 | 550 | 1400 | 4400 | 6300 | 2200 | 460 | 290 |
| Phenanthrene | 690 | 1200 | 830 | 500 | 890 | 1800 | 2200 | 1100 | 480 | 250 |
| Pyrene | 580 | 910 | 860 | 510 | 790 | 1600 | 1400 | 960 | 460 | 240 |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2) | 363 J | 383.4 J | 650 | 348 J | 544.5 | 496.2 | 369.5 J | 369.8 | 302.8 J | 114.2 J |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 0) | 363 J | 383.4 J | 650 | 348 J | 544.5 | 496.2 | 369.5 J | 369.8 | 302.8 J | 111.2 J |
| Total PAH (SMS Freshwater 2013) (U = 0) | 5591 J | 7884 J | 8066 | 4333 J | 7785 | 14995 | 15004 J | 7989 J | 3772 J | 1779 J |
| Pesticides (µg/kg) | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 40 J | 99 U | 99 U | 100 U |
| 4,4'-DDE (p,p'-DDE) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 UJ | 99 UJ | 99 UJ | 100 UJ |
| 4,4'-DDT (p,p'-DDT) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 19 J | 99 UJ | 99 UJ | 100 UJ |
| Dieldrin | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 U | 99 U | 99 U | 100 U |
| Endrin ketone | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 28 U | 99 U | 99 U | 100 U |
| Hexachlorocyclohexane, beta- (BHC) | 50 U | 50 U | 50 U | 50 U | 50 U | 49 U | 12 U | 50 U | 50 U | 50 U |
| Sum DDD (U = 0) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 40 J | 99 U | 99 U | 100 U |
| Sum DDE (U = 0) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 UJ | 99 UJ | 99 UJ | 100 UJ |
| Sum DDT (U = 0) | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 19 J | 99 UJ | 99 UJ | 100 UJ |
| PCB Aroclors (µg/kg) | | | | | | | | | | |
| Aroclor 1016 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |
| Aroclor 1221 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |
| Aroclor 1232 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |
| Aroclor 1242 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| Task | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Location ID | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 |
| Sample ID | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 |
| Sample Date | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Depth | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Type | N | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Aroclor 1248 | 22 | 17 | 17 J | 20 U | 16 U | 12 | 16 | 15 | 9.9 U | 10 U |
| Aroclor 1254 | 44 | 37 | 39 | 28 | 28 J | 25 | 27 | 31 | 23 | 20 |
| Aroclor 1260 | 20 U | 16 U | 20 U | 14 U | 20 U | 12 U | 20 U | 14 U | 9.9 U | 10 U |
| Aroclor 1262 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |
| Aroclor 1268 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U |
| Total PCB aroclors (SMS Freshwater 2013) (U = 0) | 66 | 54 | 56 J | 28 | 28 J | 37 | 43 | 46 | 23 | 20 |
| Extractable Petroleum Hydrocarbons (µg/kg) | | | | | | | | | | |
| C8-C10 Aliphatics | 20000 U | -- | 19000 | 21000 U | -- | -- | 21000 | -- | -- | -- |
| C10-C12 Aliphatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C12-C16 Aliphatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C16-C21 Aliphatics | 20000 U | -- | 29000 | 38000 | -- | -- | 21000 U | -- | -- | -- |
| C21-C34 Aliphatics | 180000 | -- | 190000 | 160000 | -- | -- | 120000 | -- | -- | -- |
| C8-C10 Aromatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C10-C12 Aromatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C12-C16 Aromatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C16-C21 Aromatics | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- |
| C21-C34 Aromatics | 31000 | -- | 48000 | 53000 | -- | -- | 30000 | -- | -- | -- |
| Total Petroleum Hydrocarbons (mg/kg) | | | | | | | | | | |
| Diesel range hydrocarbons | 53 | 54 | 69 | 71 | 52 U | 54 U | 64 | 37 | 45 U | 50 U |
| Motor oil range | 150 | 140 | 180 | 170 | 110 | 160 | 190 | 120 | 120 | 100 U |

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|----------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Task | MS010 | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| Location ID | MS010-SS-120515 | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| Sample ID | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Date | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Depth | N | FD | N | N | N | N | N | N | N | N |
| Sample Type | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Matrix | Conventional Parameters (mg/kg) | | | | | | | | | |
| Ammonia | 100 | 95.6 | 20.8 | 155 | 107 | 204 | 121 | 129 | 117 | 130 |
| Sulfide | 2030 | 1750 | 8.88 U | 2180 | 1520 | 4450 | 2130 | 702 | 2450 | 2960 |
| | Conventional Parameters (pct) | | | | | | | | | |
| Total organic carbon | 11.8 | 15.7 | 31.5 | 22.6 | 18.8 | 16.9 | 14.3 | 19.6 | 21.8 | 18 |
| Total solids | 10.6 | 10.4 | 9.8 | 9.7 | 9.3 | 9.8 | 10.3 | 12.4 | 8.4 | 11.7 |
| Total solids (preserved) | 10.5 | 10.7 | 11 | 10.5 | 9.6 | 10.8 | 11 | 11 | 7.4 | 11.1 |
| | Grain Size (pct) | | | | | | | | | |
| Gravel | 11.4 | 2.6 | 23.6 | 21.3 | 23.6 | 6.9 | 16.2 | 17.3 | 19.6 | 16.8 |
| Sand, very coarse | 9.5 | 14.2 | 17.8 | 11 | 11.6 | 13.4 | 11.3 | 14 | 14.3 | 8.7 |
| Sand, coarse | 7.1 | 9.4 | 14.5 | 5.9 | 7.1 | 10.3 | 7.5 | 10.4 | 11.5 | 4.6 |
| Sand, medium | 5.8 | 6.5 | 11.7 | 4.1 | 3.7 | 7 | 4.8 | 7.2 | 8.2 | 3.3 |
| Sand, fine | 4.7 | 5 | 7.4 | 2.8 | 4.2 | 4.9 | 2.7 | 4.5 | 5.3 | 2.8 |
| Sand, very fine | 3.8 | 3.8 | 4.6 | 1.9 | 1.8 | 3.2 | 1.5 | 2.8 | 3.4 | 2.1 |
| Silt, coarse | 8.1 | 2.4 | 0.2 | 4.9 | 4.2 | 1.9 | 2.1 | 0.2 | 0.7 | 1.8 |
| Silt, medium | 14.5 | 9.5 | 1.6 | 18.9 | 12.9 | 7.7 | 11.8 | 8.5 | 3.4 | 17.7 |
| Silt, fine | 8.1 | 9.5 | 3.7 | 6.5 | 11.6 | 11.9 | 11.9 | 12.9 | 9 | 12.9 |
| Silt, very fine | 8.7 | 15.4 | 4.2 | 4.1 | 6.9 | 12.8 | 12.8 | 9.3 | 8.3 | 7.1 |
| Clay, coarse | 2.9 | 5.5 | 3.2 | 1.2 | 2.2 | 4.7 | 4 | 2.1 | 2.4 | 4.6 |
| Clay, medium | 3.9 | 4.1 | 2.6 | 2.2 | 0.8 | 3.4 | 2.9 | 2.5 | 2.5 | 4.7 |
| Clay, fine | 11.6 | 12 | 5.1 | 15.2 | 9.3 | 11.8 | 10.5 | 8.2 | 11.4 | 12.9 |
| | Metals (mg/kg) | | | | | | | | | |
| Antimony | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Arsenic | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lead | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Nickel | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Semivolatile Organics (µg/kg) | | | | | | | | | |
| 4-Methylphenol (p-Cresol) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzoic acid | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| bis(2-Ethylhexyl)phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Butylbenzyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Carbazole | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzofuran | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dimethyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| Task | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Location ID | MS010 | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| Sample ID | MS010-SS-120515 | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| Sample Date | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Depth | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Type | N | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Di-n-butyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Di-n-octyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pentachlorophenol | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Phenol | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Retene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | |
| 2-Methylnaphthalene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Acenaphthene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Acenaphthylene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b,j,k)fluoranthenes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(g,h,i)perylene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluoranthene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluorene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-c,d)pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Naphthalene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Phenanthrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total PAH (SMS Freshwater 2013) (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pesticides (µg/kg) | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4,4'-DDE (p,p'-DDE) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4,4'-DDT (p,p'-DDT) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dieldrin | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Endrin ketone | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hexachlorocyclohexane, beta- (BHC) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDD (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDE (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDT (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PCB Aroclors (µg/kg) | | | | | | | | | | |
| Aroclor 1016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1221 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1232 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1242 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary**

| | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Task | MS010 | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| Location ID | MS010-SS-120515 | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| Sample ID | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| Sample Date | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| Sample Depth | N | FD | N | N | N | N | N | N | N | N |
| Sample Type | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Matrix | | | | | | | | | | |
| Aroclor 1248 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1254 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1260 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1262 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1268 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total PCB aroclors (SMS Freshwater 2013) (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Extractable Petroleum Hydrocarbons (µg/kg) | | | | | | | | | | |
| C8-C10 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C10-C12 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C12-C16 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C16-C21 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C21-C34 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C8-C10 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C10-C12 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C12-C16 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C16-C21 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C21-C34 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Petroleum Hydrocarbons (mg/kg) | | | | | | | | | | |
| Diesel range hydrocarbons | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Motor oil range | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table E-3
Maulsby Marsh Surface Sediment Chemistry Results Summary

Notes:

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

µg = microgram

CPAH = carcinogenic polycyclic aromatic hydrocarbon

HPAH = high-molecular-weight polycyclic aromatic hydrocarbon

kg = kilogram

LPAH = low-molecular-weight polycyclic aromatic hydrocarbon

mg = milligram

ng = nanogram

OC = organic carbon

PAH = polycyclic aromatic hydrocarbon

PCB = polychlorinated biphenyl

pct = percent

TEQ = toxic equivalency quotient

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 | MS010 |
| | | | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 | MS010-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | N | FD | N | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | |
| Conventional Parameters (mg/kg) | | | | | | | | | | | | | |
| Ammonia | 230 | 300 | 132 | 130 | 213 | 170 | 178 | 71.1 | 17.9 | 33.2 | 12.6 | 117 | 100 |
| Sulfide | 39 | 61 | 2960 | 3100 | 2350 | 3640 | 4070 | 1840 | 20.5 | 718 | 1770 | 1720 | 2030 |
| Conventional Parameters (pct) | | | | | | | | | | | | | |
| Total organic carbon | -- | -- | 19.6 | 18.4 | 17.1 | 23.6 | 17.9 | 29 | 31.9 | 16.7 | 22.5 | 12.2 | 11.8 |
| Total solids | -- | -- | 10.2 | 10.2 | 10.4 | 9.3 | 10.3 | 9.2 | 9.8 | 16.8 | 10.7 | 10.1 | 10.6 |
| Total solids (preserved) | -- | -- | 9.7 | 9.7 | 10.5 | 10.9 | 10 | 8.3 | 6.9 | 19 | 8.1 | 10.6 | 10.5 |
| Grain Size (pct) | | | | | | | | | | | | | |
| Gravel | -- | -- | 0.1 U | 11.8 | 0.4 | 7.5 | 4.6 | 19.1 | 16.2 | 1.2 | 44.1 | 5.5 | 11.4 |
| Sand, very coarse | -- | -- | 24.4 | 17.1 | 14.2 | 11.8 | 8.2 | 13.9 | 19 | 16.4 | 11.4 | 8.3 | 9.5 |
| Sand, coarse | -- | -- | 7.1 | 7.9 | 6 | 8.1 | 7.5 | 11.2 | 16.5 | 9.7 | 7.2 | 7 | 7.1 |
| Sand, medium | -- | -- | 4.5 | 4.8 | 4.4 | 5.7 | 6.7 | 9.5 | 12.6 | 8.2 | 5.4 | 6.3 | 5.8 |
| Sand, fine | -- | -- | 3 | 3.2 | 3 | 4 | 5.3 | 6.6 | 8 | 9.6 | 4.2 | 5.3 | 4.7 |
| Sand, very fine | -- | -- | 2.1 | 2.4 | 2.3 | 2.7 | 3.7 | 4.1 | 4.9 | 10.2 | 3.1 | 4.5 | 3.8 |
| Silt, coarse | -- | -- | 1.3 | 1 | 1.5 | 5.2 | 4.2 | 2.8 | 3.3 | 11.2 | 5.2 | 10.3 | 8.1 |
| Silt, medium | -- | -- | 13.1 | 11.5 | 18.8 | 24.5 | 25.2 | 4.1 | 2.4 | 9.7 | 2.6 | 12.2 | 14.5 |
| Silt, fine | -- | -- | 11.3 | 9.9 | 12.2 | 7.7 | 8.4 | 6.5 | 3.5 | 7.2 | 4.3 | 9 | 8.1 |
| Silt, very fine | -- | -- | 12.4 | 11.2 | 15.2 | 5.9 | 7.5 | 6 | 2.9 | 6.9 | 4.1 | 10.7 | 8.7 |
| Clay, coarse | -- | -- | 3.1 | 3.4 | 4.5 | 1.3 | 3.2 | 4.8 | 3.4 | 2.2 | 3 | 4.2 | 2.9 |
| Clay, medium | -- | -- | 3.3 | 3.4 | 5.4 | 2.5 | 3.7 | 2.3 | 2.3 | 2.2 | 2 | 4.1 | 3.9 |
| Clay, fine | -- | -- | 14.2 | 12.5 | 12.2 | 12.9 | 11.8 | 9.1 | 5 | 5.3 | 3.4 | 12.7 | 11.6 |
| Metals (mg/kg) | | | | | | | | | | | | | |
| Antimony | | | 2 UJ | 2 UJ | 2 UJ | 2 UJ | 2 UJ | 3 J | 5 J | 1 UJ | 2 UJ | 2 UJ | -- |
| Arsenic | 14 | 120 | 33 | 33 | 27 | 19 | 24 | 55 | 80 | 28 | 27 | 8 | -- |
| Cadmium | 2.1 | 5.4 | 3.2 | 3.4 | 2.9 | 2.2 | 3 | 3 | 3 | 3.7 | 3 | 2 | -- |
| Chromium | 72 | 88 | 37 | 38 | 41 | 32 | 34 | 25 | 17 | 40 | 37 | 43 | -- |
| Copper | 400 | 1200 | 129 | 125 | 139 | 78 | 99 | 251 | 91 | 111 | 94 | 66 | -- |
| Lead | 360 | 1300 | 170 | 170 | 150 | 100 | 110 | 1180 | 360 | 350 | 160 | 60 | -- |
| Mercury | 0.66 | 0.8 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.4 | 0.7 | 0.2 | 0.2 | 0.2 | -- |
| Nickel | 26 | 110 | 50 | 42 | 46 | 30 | 40 | 40 | 33 | 44 | 37 | 38 | -- |
| Silver | 0.57 | 1.7 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 1 U | 2 U | 2 U | -- |
| Zinc | 3200 | 4200 | 400 | 374 | 330 | 210 | 260 | 500 | 217 | 594 | 251 | 162 | -- |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | | | |
| 4-Methylphenol (p-Cresol) | 260 | 2000 | 1200 | 1600 | 1400 | 1100 | 690 | 3300 | 270 | 1800 J | 610 | 470 | -- |
| Benzoic acid | 2900 | 3800 | 390 J | 640 J | 420 J | 330 J | 390 J | 3100 J | 3100 J | 1300 J | 740 J | 410 J | -- |
| bis(2-Ethylhexyl)phthalate | 500 | 22000 | 140 | 120 | 150 | 120 | 120 | 170 | 120 | 120 | 98 | 90 | -- |
| Butylbenzyl phthalate | -- | -- | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U | -- |
| Carbazole | 900 | 1100 | 42 J | 57 J | 56 J | 60 U | 69 | 130 | 95 | 62 | 63 | 60 U | -- |
| Dibenzofuran | 200 | 680 | 180 | 280 | 240 | 110 | 300 | 660 | 480 | 210 | 69 | 54 J | -- |
| Dimethyl phthalate | -- | -- | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U | -- |
| Di-n-butyl phthalate | 380 | 1000 | 60 U | 60 U | 59 U | 60 U | 60 U | 59 U | 60 U | 59 U | 60 U | 60 U | -- |
| Di-n-octyl phthalate | 39 | 1100 | 60 UJ | 60 UJ | 59 UJ | 60 UJ | 60 UJ | 59 UJ | 60 UJ | 59 UJ | 60 UJ | 60 UJ | -- |
| Pentachlorophenol | 1200 | 1200 | 600 U | 160 J | 590 U | 600 U | 600 U | 590 U | 600 U | 590 U | 600 U | 600 U | -- |
| Phenol | 120 | 210 | 300 | 400 | 260 | 180 | 200 | 1100 | 380 | 430 J | 190 | 100 | -- |
| Retene | -- | -- | 74 | 100 | 80 | 32 J | 120 | 140 | 270 | 85 | 60 U | 60 U | -- |

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|-------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 | MS010 |
| | | | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 | MS010-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | N | FD | N | N | N | N | N | N | N | N | N |
| SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | | | |
| PAHs (µg/kg) | | | | | | | | | | | | | |
| 2-Methylnaphthalene | -- | -- | 170 | 270 | 240 | 86 | 270 | 600 | 600 | 290 J | 66 | 36 J | -- |
| Acenaphthene | -- | -- | 110 | 160 | 140 | 72 | 140 | 820 | 110 | 130 | 57 J | 60 U | -- |
| Acenaphthylene | -- | -- | 74 | 130 | 86 | 60 | 78 | 250 | 220 | 140 | 39 J | 60 U | -- |
| Anthracene | -- | -- | 140 | 180 | 170 | 120 | 180 | 350 | 220 | 170 | 110 | 51 J | -- |
| Benzo(a)anthracene | -- | -- | 160 | 170 | 280 | 130 | 240 | 300 | 230 | 180 | 190 | 57 J | -- |
| Benzo(a)pyrene | -- | -- | 260 | 270 | 470 | 250 | 380 | 330 | 250 | 270 | 220 | 80 | -- |
| Benzo(b,j,k)fluoranthenes | -- | -- | 570 | 640 | 1000 | 580 | 970 | 970 | 650 | 540 | 420 | 180 | -- |
| Benzo(g,h,i)perylene | -- | -- | 270 | 330 | 430 | 230 | 360 | 320 | 310 | 250 | 170 | 80 | -- |
| Chrysene | -- | -- | 430 | 400 | 800 | 390 | 680 | 570 | 410 | 290 | 240 | 120 | -- |
| Dibenzo(a,h)anthracene | -- | -- | 57 J | 54 J | 100 | 51 J | 87 | 95 | 54 J | 59 | 54 J | 60 U | -- |
| Fluoranthene | -- | -- | 660 | 970 | 860 | 550 | 870 | 1900 | 1700 | 1100 | 600 | 290 | -- |
| Fluorene | -- | -- | 120 | 170 | 160 | 74 | 170 | 450 | 130 | 120 | 66 | 42 J | -- |
| Indeno(1,2,3-c,d)pyrene | -- | -- | 200 | 230 | 340 | 180 | 280 | 240 | 220 | 190 | 140 | 63 | -- |
| Naphthalene | -- | -- | 1100 | 1800 | 1300 | 550 | 1400 | 4400 | 6300 | 2200 | 460 | 290 | -- |
| Phenanthrene | -- | -- | 690 | 1200 | 830 | 500 | 890 | 1800 | 2200 | 1100 | 480 | 250 | -- |
| Pyrene | -- | -- | 580 | 910 | 860 | 510 | 790 | 1600 | 1400 | 960 | 460 | 240 | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2) | -- | -- | 363 J | 383.4 J | 650 | 348 J | 544.5 | 496.2 | 369.5 J | 369.8 | 302.8 J | 114.2 J | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 0) | -- | -- | 363 J | 383.4 J | 650 | 348 J | 544.5 | 496.2 | 369.5 J | 369.8 | 302.8 J | 111.2 J | -- |
| Total PAH (SMS Freshwater 2013) (U = 0) | 17000 | 30000 | 5591 J | 7884 J | 8066 | 4333 J | 7785 | 14995 | 15004 J | 7989 J | 3772 J | 1779 J | -- |
| Pesticides (µg/kg) | | | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | -- | -- | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 40 J | 99 U | 99 U | 100 U | -- |
| 4,4'-DDE (p,p'-DDE) | -- | -- | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 UJ | 99 UJ | 99 UJ | 100 UJ | -- |
| 4,4'-DDT (p,p'-DDT) | -- | -- | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 19 J | 99 UJ | 99 UJ | 100 UJ | -- |
| Dieldrin | 4.9 | 9.3 | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 U | 99 U | 99 U | 100 U | -- |
| Endrin ketone | 8.5 | 8.5 | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 28 U | 99 U | 99 U | 100 U | -- |
| Hexachlorocyclohexane, beta- (BHC) | 7.2 | 11 | 50 U | 50 U | 50 U | 50 U | 50 U | 49 U | 12 U | 50 U | 50 U | 50 U | -- |
| Sum DDD (U = 0) | 310 | 860 | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 40 J | 99 U | 99 U | 100 U | -- |
| Sum DDE (U = 0) | 21 | 33 | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 9.9 UJ | 99 UJ | 99 UJ | 100 UJ | -- |
| Sum DDT (U = 0) | 100 | 8100 | 99 U | 99 U | 99 U | 99 U | 100 U | 99 U | 19 J | 99 UJ | 99 UJ | 100 UJ | -- |
| PCB Aroclors (µg/kg) | | | | | | | | | | | | | |
| Aroclor 1016 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Aroclor 1221 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Aroclor 1232 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Aroclor 1242 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Aroclor 1248 | -- | -- | 22 | 17 | 17 J | 20 U | 16 U | 12 | 16 | 15 | 9.9 U | 10 U | -- |
| Aroclor 1254 | -- | -- | 44 | 37 | 39 | 28 | 28 J | 25 | 27 | 31 | 23 | 20 | -- |
| Aroclor 1260 | -- | -- | 20 U | 16 U | 20 U | 14 U | 20 U | 12 U | 20 U | 14 U | 9.9 U | 10 U | -- |
| Aroclor 1262 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Aroclor 1268 | -- | -- | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | -- |
| Total PCB aroclors (SMS Freshwater 2013) (U = 0) | 110 | 2500 | 66 | 54 | 56 J | 28 | 28 J | 37 | 43 | 46 | 23 | 20 | -- |

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|-----|-----|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS001 | MS001 | MS002 | MS003 | MS004 | MS005 | MS006 | MS007 | MS008 | MS009 | MS010 |
| | | | MS001-SS-120515 | MS101-SS-120515 | MS002-SS-120515 | MS003-SS-120515 | MS004-SS-120515 | MS005-SS-120515 | MS006-SS-120515 | MS007-SS-120515 | MS008-SS-120515 | MS009-SS-120515 | MS010-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | N | FD | N | N | N | N | N | N | N | N | N |
| SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | | | |
| Extractable Petroleum Hydrocarbons (µg/kg) | | | | | | | | | | | | | |
| C8-C10 Aliphatics | -- | -- | 20000 U | -- | 19000 | 21000 U | -- | -- | 21000 | -- | -- | -- | -- |
| C10-C12 Aliphatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C12-C16 Aliphatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C16-C21 Aliphatics | -- | -- | 20000 U | -- | 29000 | 38000 | -- | -- | 21000 U | -- | -- | -- | -- |
| C21-C34 Aliphatics | -- | -- | 180000 | -- | 190000 | 160000 | -- | -- | 120000 | -- | -- | -- | -- |
| C8-C10 Aromatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C10-C12 Aromatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C12-C16 Aromatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C16-C21 Aromatics | -- | -- | 20000 U | -- | 19000 U | 21000 U | -- | -- | 21000 U | -- | -- | -- | -- |
| C21-C34 Aromatics | -- | -- | 31000 | -- | 48000 | 53000 | -- | -- | 30000 | -- | -- | -- | -- |
| Total Petroleum Hydrocarbons (mg/kg) | | | | | | | | | | | | | |
| Diesel range hydrocarbons | 340 | 510 | 53 | 54 | 69 | 71 | 52 U | 54 U | 64 | 37 | 45 U | 50 U | -- |
| Motor oil range | -- | -- | 150 | 140 | 180 | 170 | 110 | 160 | 190 | 120 | 120 | 100 U | -- |

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| | | | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | FD | N | N | N | N | N | N | N | N |
| | | | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| Conventional Parameters (mg/kg) | | | | | | | | | | | |
| Ammonia | 230 | 300 | 95.6 | 20.8 | 155 | 107 | 204 | 121 | 129 | 117 | 130 |
| Sulfide | 39 | 61 | 1750 | 8.88 U | 2180 | 1520 | 4450 | 2130 | 702 | 2450 | 2960 |
| Conventional Parameters (pct) | | | | | | | | | | | |
| Total organic carbon | -- | -- | 15.7 | 31.5 | 22.6 | 18.8 | 16.9 | 14.3 | 19.6 | 21.8 | 18 |
| Total solids | -- | -- | 10.4 | 9.8 | 9.7 | 9.3 | 9.8 | 10.3 | 12.4 | 8.4 | 11.7 |
| Total solids (preserved) | -- | -- | 10.7 | 11 | 10.5 | 9.6 | 10.8 | 11 | 11 | 7.4 | 11.1 |
| Grain Size (pct) | | | | | | | | | | | |
| Gravel | -- | -- | 2.6 | 23.6 | 21.3 | 23.6 | 6.9 | 16.2 | 17.3 | 19.6 | 16.8 |
| Sand, very coarse | -- | -- | 14.2 | 17.8 | 11 | 11.6 | 13.4 | 11.3 | 14 | 14.3 | 8.7 |
| Sand, coarse | -- | -- | 9.4 | 14.5 | 5.9 | 7.1 | 10.3 | 7.5 | 10.4 | 11.5 | 4.6 |
| Sand, medium | -- | -- | 6.5 | 11.7 | 4.1 | 3.7 | 7 | 4.8 | 7.2 | 8.2 | 3.3 |
| Sand, fine | -- | -- | 5 | 7.4 | 2.8 | 4.2 | 4.9 | 2.7 | 4.5 | 5.3 | 2.8 |
| Sand, very fine | -- | -- | 3.8 | 4.6 | 1.9 | 1.8 | 3.2 | 1.5 | 2.8 | 3.4 | 2.1 |
| Silt, coarse | -- | -- | 2.4 | 0.2 | 4.9 | 4.2 | 1.9 | 2.1 | 0.2 | 0.7 | 1.8 |
| Silt, medium | -- | -- | 9.5 | 1.6 | 18.9 | 12.9 | 7.7 | 11.8 | 8.5 | 3.4 | 17.7 |
| Silt, fine | -- | -- | 9.5 | 3.7 | 6.5 | 11.6 | 11.9 | 11.9 | 12.9 | 9 | 12.9 |
| Silt, very fine | -- | -- | 15.4 | 4.2 | 4.1 | 6.9 | 12.8 | 12.8 | 9.3 | 8.3 | 7.1 |
| Clay, coarse | -- | -- | 5.5 | 3.2 | 1.2 | 2.2 | 4.7 | 4 | 2.1 | 2.4 | 4.6 |
| Clay, medium | -- | -- | 4.1 | 2.6 | 2.2 | 0.8 | 3.4 | 2.9 | 2.5 | 2.5 | 4.7 |
| Clay, fine | -- | -- | 12 | 5.1 | 15.2 | 9.3 | 11.8 | 10.5 | 8.2 | 11.4 | 12.9 |
| Metals (mg/kg) | | | | | | | | | | | |
| Antimony | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Arsenic | 14 | 120 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 2.1 | 5.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | 72 | 88 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 400 | 1200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lead | 360 | 1300 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | 0.66 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Nickel | 26 | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 0.57 | 1.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 3200 | 4200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | |
| 4-Methylphenol (p-Cresol) | 260 | 2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzoic acid | 2900 | 3800 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| bis(2-Ethylhexyl)phthalate | 500 | 22000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Butylbenzyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Carbazole | 900 | 1100 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzofuran | 200 | 680 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dimethyl phthalate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Di-n-butyl phthalate | 380 | 1000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Di-n-octyl phthalate | 39 | 1100 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pentachlorophenol | 1200 | 1200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Phenol | 120 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Retene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|-------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| | | | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | | |
| PAHs (µg/kg) | | | | | | | | | | | |
| 2-Methylnaphthalene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Acenaphthene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Acenaphthylene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b,j,k)fluoranthenes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(g,h,i)perylene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluoranthene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluorene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-c,d)pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Naphthalene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Phenanthrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pyrene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total cPAH TEQ (7 minimum CAEPA 2005) (U = 0) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total PAH (SMS Freshwater 2013) (U = 0) | 17000 | 30000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pesticides (µg/kg) | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4,4'-DDE (p,p'-DDE) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4,4'-DDT (p,p'-DDT) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dieldrin | 4.9 | 9.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Endrin ketone | 8.5 | 8.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hexachlorocyclohexane, beta- (BHC) | 7.2 | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDD (U = 0) | 310 | 860 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDE (U = 0) | 21 | 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sum DDT (U = 0) | 100 | 8100 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PCB Aroclors (µg/kg) | | | | | | | | | | | |
| Aroclor 1016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1221 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1232 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1242 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1248 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1254 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1260 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1262 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aroclor 1268 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total PCB aroclors (SMS Freshwater 2013) (U = 0) | 110 | 2500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table E-4
Maulsby Marsh Freshwater Sediment Results**

| Task Location ID Sample ID Sample Date Sample Depth Sample Type Matrix | SCO | CSL | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 | Maulsby Marsh 2012 |
|--|-----|-----|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | MS010 | MS011 | MS012 | MS013 | MS014 | MS015 | MS016 | MS017 | MS018 |
| | | | MS110-SS-120515 | MS011-SS-120515 | MS012-SS-120515 | MS013-SS-120515 | MS014-SS-120515 | MS015-SS-120515 | MS016-SS-120515 | MS017-SS-120515 | MS018-SS-120515 |
| | | | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 | 05/15/2012 |
| | | | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm | 0 - 10 cm |
| | | | FD | N | N | N | N | N | N | N | N |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | | |
| Extractable Petroleum Hydrocarbons (µg/kg) | | | | | | | | | | | |
| C8-C10 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C10-C12 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C12-C16 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C16-C21 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C21-C34 Aliphatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C8-C10 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C10-C12 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C12-C16 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C16-C21 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C21-C34 Aromatics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Petroleum Hydrocarbons (mg/kg) | | | | | | | | | | | |
| Diesel range hydrocarbons | 340 | 510 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Motor oil range | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table E-4
Maulsby Marsh Freshwater Sediment Results

Notes:

- Detected concentration is greater than freshwater SMS SCO
- Detected concentration is greater than freshwater SMS CSL

Bold: Detected result

µg/kg: microgram per kilogram

CAEPA: California Environmental Protection Agency

cm: centimeter

cPAH: carcinogenic polycyclic aromatic hydrocarbon

CSL: cleanup screening level

FD: field duplicate

J: estimated value

mg/kg: milligram per kilogram

N: normal sample

PAH: polycyclic aromatic hydrocarbon

PCB: polychlorinated biphenyl

SCO: sediment cleanup objective

SE: sediment matrix

SMS: sediment management standard

TEQ: toxic equivalent level

U: Compound analyzed, but not detected above detection limit

UJ: Compound analyzed, but not detected above estimated detection limit

FIGURES

C:\Jobs\100546-01_JELD-WEN\Maps\2013_12\Revised\Maulsby_Marsh_Vicinity.mxd jsof 12/17/2013 9:45:57 AM



Figure E-1
Maulsby Marsh Vicinity Map
Remedial Investigation Feasibility Study
Jeld-Wen/ Former Nord Door Facility



C:\Jobs\100546-01_JELD-WEN\Maps\2013_12\Revised\Maulsby_Marsh_Samples.mxd jsox 12/17/2013 10:12:25 AM



LEGEND

- Salinity Sample Location
- Sediment Sample Location

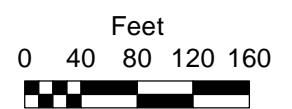


Figure E-2
Mulsby Marsh Sample Locations
Remedial Investigation Feasibility Study
Jeld-Wen/ Former Nord Door Facility

ATTACHMENT E-1
SEDIMENT GRAB COLLECTION AND
PROCESSING LOG FORMS



Surface Sediment Field Sample Record

MS-001

Project Name: Maulsby Marsh Project No: 120909-01.01 Station ID: 001

Sampling Crew: DG JP AT
Sample Date: 5/15/12
Sampling Method:
Sampling Vessel:
Subcontractor(s):
Station Coordinates: N / Lat.
E / Long.
Datum: NAD 83 / WGS 84 zone:
Weather: Sunny

Sample ID: MS001-SS-120515
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
TS / TVS / Grain Size / TOC / Ammonia / Sulfides
Other:
Other:

Grab Number: 1 Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: 10 cm Time: 13:39
Sample Interval: 0-10 cm

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter with handwritten entries like 'brown' and 'Very soft/Loose'.

Comments: coarse organics at 10 cm - very dark grey - at edge of 12' drainage, duck wading tracks decanted surface water, surface layer has red, pink green & brown

Grab Number: Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: cm Time:
Sample Interval: cm

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Grab Number: Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: cm Time:
Sample Interval: cm

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: MS-002

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: —
 Subcontractor(s): — Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS-002-SS-120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides
 (Circle Appropriate Analyses) Other: _____
 Other: _____

Grab Number: 1 Water Depth: — ft. Grab Recovery: _____ cm Time: 13:17
 Tide Level: — ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: — ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------------|-------------------------|-------------|--------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | <u>gray</u> | soft/loose | <u>slight</u> Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | <u>Moist</u> |
| <u>silt clay</u> | brown | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: edge of open pond area - Thin brown surface

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: MS 003
003

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: —
 Subcontractor(s): — Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS 003 - SS - 120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: — ft. Grab Recovery: — cm Time: 12:34
 Tide Level: — ft. Sample Interval: 0-10 cm
 Bioassay Chemistry Depth MLLW: — ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|-----------------------|-----------------|------------------------|------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| <u>silt clay</u> | <u>brown</u> | dense/stiff | <u>strong</u> | moderate | <u>Wet</u> |
| <u>organic matter</u> | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: 3" very soft & very wet, silt 1/2 cm brown layer surface
3" dense reddish organic mat, thin channel near veg
clumps

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: MS-004
004

Sampling Crew: DG, JP, AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: —
 Subcontractor(s): — Weather: sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: SM004-SS-120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides
 (Circle Appropriate Analyses)
 Other: _____
 Other: _____

Grab Number: 1 Water Depth: — ft. Grab Recovery: 10 cm Time: 11:53
 Tide Level: — ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: — ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------------|-------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | <u>slight</u> Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| <u>silt clay</u> | <u>brown</u> | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: Sheen on surface following drainage patterns
thin light brown surface, dark brown below, very soft sweet
no coarse organics on top 10 cm, open silty area with no veg

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AO



Surface Sediment Field Sample Record

Project Name:

Project No:

Station ID: M5005

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: grab
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny warm
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: M5005-SS-1204-15
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides
 (Circle Appropriate Analyses)
 Other: _____
 Other: _____

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 0855
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: Heavily organic - sample taken from small pool within the sedges

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments:

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments:

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-006

Project Name: Maulsby marsh Project No: 120909-01.01 Station ID: 0010

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: bowl spoon
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS006-SS-1205-15
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 9:10
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|-----------------------|-----------------|------------------------|------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | <u>moderate</u> other: | slight | Moist |
| <u>silt</u> clay | <u>brown</u> | dense/stiff | strong | moderate | <u>Wet</u> |
| <u>organic matter</u> | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: 10-8 in channels under veg - fine brown thin layer salt 4 inches organic matter

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: 007

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: ecleman
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Slenny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS007-SS-120B1S
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 007 Water Depth: _____ ft. Grab Recovery: 0-10 cm Time: 9:45
 Tide Level: _____ ft. Sample Interval: 10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|-----------------------|-----------------|------------------------|------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| <u>silt clay</u> | <u>brown</u> | dense/stiff | <u>strong</u> | moderate | <u>Wet</u> |
| <u>organic matter</u> | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: Silty, much water over top - very wet - surface 2 inches
Very wet loose silt - below is denser wet with huge
organic material

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-008

Project Name: maudslby marsh Project No: 120909-01.01 Station ID: 0090

Sampling Crew: Sample Date: 5/15/12 Sampling Method: bowl / spoon
Subcontractor(s): Weather: Sunny warm
Station Coordinates: N / Lat. E / Long.
Datum: NAD 83 / WGS 84 zone:

Sample ID: MS008-SS-1205-15
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses).

Grab Number: 69 Water Depth: ft. Grab Recovery: 10 cm Time: 9:40
Tide Level: ft. Sample Interval: 0-10 cm
Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt/clay, organic matter.

Comments: very vegetated, 2-4 inch drainage channels covered with fine silt over 2 inches of organic mat - silt

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: MS-009
009

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: Ekman
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny warm
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS 009-120915
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 10:10
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|------------------------|------------------------|------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | <u>moderate</u> other: | slight | Moist |
| silt clay | <u>brown</u> - lighter | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: below sample - more organic woody roots

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments:

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments:

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-010

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: 010 3/110

Sampling Crew: DC JP AT
 Sample Date: 5/15/12 Sampling Method: Ekman
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS 010 - SS - 120515 MS 110 - SS - 120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 10:30
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------------|------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | <u>moderate</u> other: | slight | Moist |
| <u>silt</u> clay | <u>brown</u> | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: Second grab collected for volume

Grab Number: 2 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 10:35
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------------|------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | <u>moderate</u> other: | slight | Moist |
| <u>silt</u> clay | <u>brown</u> | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: then brown layer on surface - about 10 cm abundant organic material
~~MS 010~~ MS 110 - SS - 120515 is dup. of MS 010 - SS - 120515

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-011

Project Name: Maulsby Marsh Project No: 120909-01.01 Station ID: 011

Sampling Crew: DG JP AT
 Sample Date: 8/5/15 Sampling Method: hand/Bowl
 Sampling Vessel: —
 Subcontractor(s): — Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: SM011-SS-120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: — ft. Grab Recovery: 10 cm Time: 11:55
 Tide Level: — ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: — ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|--------------------------|------------------|----------------|-----------|-----------|
| cobble | D.O. | Very soft/Loose | none | H2S | none |
| gravel | gray | soft/loose | slight | Petroleum | trace |
| sand C M F | black | mod dense/stiff | moderate | other: | slight |
| <u>silt clay</u> | <u>brown</u> <u>dark</u> | dense/stiff | strong | | moderate |
| organic matter | brown surface | very dense/stiff | overwhelming | | heavy |

Comments: thick organic layer 0-10 cm

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|----------------|-----------|-----------|
| cobble | D.O. | Very soft/Loose | none | H2S | none |
| gravel | gray | soft/loose | slight | Petroleum | trace |
| sand C M F | black | mod dense/stiff | moderate | other: | slight |
| silt clay | brown | dense/stiff | strong | | moderate |
| organic matter | brown surface | very dense/stiff | overwhelming | | heavy |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|----------------|-----------|-----------|
| cobble | D.O. | Very soft/Loose | none | H2S | none |
| gravel | gray | soft/loose | slight | Petroleum | trace |
| sand C M F | black | mod dense/stiff | moderate | other: | slight |
| silt clay | brown | dense/stiff | strong | | moderate |
| organic matter | brown surface | very dense/stiff | overwhelming | | heavy |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: maulshy marsh Project No: 120909-01.01 Station ID: 012

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: —
 Subcontractor(s): — Weather: Sunny
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: 012-SS-120515
 Analysis: MS Metals / TBT / SVOCs / VOCs / PCBs / Pest
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides
 (Circle Appropriate Analyses) Other: _____
 Other: _____

Grab Number: 1 Water Depth: — ft. Grab Recovery: 10 cm Time: 11:59
 Tide Level: — ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: — ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------|------------------|----------|------------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| <u>silt clay</u> | <u>brown</u> | dense/stiff | <u>strong</u> | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: When on surface: 2-3" very soft wet brown silt 3-10 cm
very dense organic mat, open small end of drainage channel
no sheen

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AD



Surface Sediment Field Sample Record

Project Name: maulsby marsh Project No: 120909-01.01 Station ID: 013

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Stemmy
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS 013-SS-120S15
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 12:22
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: very soft silt, very wet, clusters of veg around drainage channels, brown layer on surface, very dark underneath

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: Maulsby Marsh Project No: 120909-01.01 Station ID: 014

Sampling Crew: DG JP AT
 Sample Date: 5/5/12 Sampling Method: hand
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny ☺
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS014-SS-126515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides
 (Circle Appropriate Analyses) Other: _____
 Other: _____

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 13:20
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none (H2S) | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: 9" of very soft wet silt, no surface, surface thin brown layer, no coarse organics, clustered clumps of veg, next to open area

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AD



Surface Sediment Field Sample Record

Project Name: Maulsby marsh Project No: 120909-01.01 Station ID: 015

Sampling Crew: DG JP AT
Sample Date: 5/15/12
Sampling Method: hand Ekman
Weather: sunny
Station Coordinates: N / Lat.
E / Long.

Datum: NAD 83 / WGS 84 zone:
Sample ID: MS015-SS-120515
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest
Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides
Other:
(Circle Appropriate Analyses)

Grab Number: 1 Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: 10 cm Time: 12:51
Sample Interval: 0-10 cm
Bioassay / Chemistry

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter with handwritten annotations like 'Very soft/Loose', 'H2S', 'Wet'.

Comments: 2" standing water, very wet and soft, 3" silt dense organics @ 10 cm

Grab Number: Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: cm Time:
Sample Interval: cm
Bioassay / Chemistry

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Grab Number: Water Depth: ft.
Tide Level: ft.
Depth MLLW: ft.
Grab Recovery: cm Time:
Sample Interval: cm
Bioassay / Chemistry

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-016

Project Name: Maulsby Marsh Project No: 120909-01.01 Station ID: 016

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: Sunny!
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: MS 016 - SS - 120515
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 12:11
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay (Chemistry) Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|------------------|-----------------|------------------------|------------------------|-------------|------------|
| cobble | D.O. | <u>Very soft/Loose</u> | none <u>H2S</u> | <u>none</u> | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | <u>moderate</u> other: | slight | Moist |
| <u>silt clay</u> | <u>brown</u> | dense/stiff | strong | moderate | <u>Wet</u> |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: 3" soft wet brownish layer over thick organic mat that was dark, strong H2S, clumpy veg at edge of large pond

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

MS-017

Project Name: Maulsby Marsh Project No: 120909-01.01 Station ID: 017

Sampling Crew: DG JP AT
 Sample Date: 5/15/12 Sampling Method: hand & Hobson bowl
 Sampling Vessel: _____
 Subcontractor(s): _____ Weather: _____
 Station Coordinates: N / Lat. _____
 E / Long. _____
 Datum: NAD 83 / WGS 84 zone: _____

Sample ID: SM017-SS-1204LS
 Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other: _____
 TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other: _____
 (Circle Appropriate Analyses)

Grab Number: 1 Water Depth: _____ ft. Grab Recovery: 10 cm Time: 11:25
 Tide Level: _____ ft. Sample Interval: 0-10 cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod.dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: open pond no water on surface
very thin lighter brown on surface
highly organic - 4 inches silt over thick dense mat

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Grab Number: _____ Water Depth: _____ ft. Grab Recovery: _____ cm Time: _____
 Tide Level: _____ ft. Sample Interval: _____ cm
 Bioassay / Chemistry Depth MLLW: _____ ft.

| Sediment Type: | Sediment Color: | Density: | Sediment Odor: | Sheen: | Moisture: |
|----------------|-----------------|------------------|------------------|----------|-----------|
| cobble | D.O. | Very soft/Loose | none H2S | none | Dry |
| gravel | gray | soft/loose | slight Petroleum | trace | Damp |
| sand C M F | black | mod dense/stiff | moderate other: | slight | Moist |
| silt clay | brown | dense/stiff | strong | moderate | Wet |
| organic matter | brown surface | very dense/stiff | overwhelming | heavy | |

Comments: _____

Date/Time Lab Drop Off:

Recorded by: AT



Surface Sediment Field Sample Record

Project Name: Maulsby Marsh Project No: 120909-01,01 Station ID: 018

Sampling Crew: DG JP AT
Sample Date: 5/15/12 Sampling Method: bowl & hand
Subcontractor(s): Weather:
Station Coordinates: N / Lat. E / Long.
Datum: NAD 83 / WGS 84 zone:

Sample ID: MS018-SS-120515
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses)

Grab Number: 1 Water Depth: ft. Grab Recovery: 10 cm Time: 11:00
Tide Level: ft. Sample Interval: 0-10 cm
Bioassay / Chemistry Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter with handwritten notes like 'brown - dark' and circled terms like 'strong', 'H2S'.

Comments: surface was very brown organic silt highly organic

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Table with 6 columns: Sediment Type, Sediment Color, Density, Sediment Odor, Sheen, Moisture. Rows include cobble, gravel, sand C M F, silt clay, organic matter.

Comments:

Date/Time Lab Drop Off:

Recorded by: AO



720 Olive Way, Suite 1900
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287-9131
www.anchorqea.com

Water Collection Form: Water Quality Monitoring

Station ID: *MM-Sal-outlet* Date *5/30/12* Time *1347*
Project Name: *Jeld Wen* Project Number *110909-01.01*

Coordinates

Lat/Northing: *371631.8* Long/Easting *1302935.9*

Weather Observations: *overcast*

| Param. ---Unit--- Time | Temp. | Sp.Cond | Cond. | pH | Salinity | DO | | |
|------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|--|--|
| <i>13:47</i> | <i>20.92</i> | <i>3794</i> | <i>4015</i> | <i>7.48</i> | <i>2.21</i> | <i>9.05</i> | | |
| <i>13:48</i> | <i>20.87</i> | <i>3829</i> | <i>4159</i> | <i>7.44</i> | <i>2.21</i> | <i>8.83</i> | | |
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Comments:
*8" of water in 20' pond just upstream of culvert pipe. water observed flowing out at low rate.
no odor or sheen observed. water turbid*

Recorded by: *David Billingham*



720 Olive Way, Suite 1900
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287-9131
www.anchorqea.com

| Water Collection Form: Water Quality Monitoring | | | | | | | | |
|--|--------------|------------------|--------------------------------|-------------------------------------|-----------------|-------------------|--|--|
| Station ID: <i>MM-Sal-South</i> | | | | Date: <i>5/30/12</i> | | Time: <i>1405</i> | | |
| Project Name: <i>Jeld Wen</i> | | | | Project Number: <i>110909-01.01</i> | | | | |
| Coordinates | | | | | | | | |
| Lat/Northing: <i>372108.1</i> | | | Long/Easting: <i>1303374.9</i> | | | | | |
| Weather Observations: <i>overcast</i> | | | | | | | | |
| Param. ---Unit--- Time | Temp. °C | Sp.Cond µS/cm | Cond. µS/cm | pH | Salinity ppt | DO mg/L | | |
| <i>1405</i> | <i>28.33</i> | <i>5197</i> | <i>4892</i> | <i>8.13</i> | <i>2.60</i> | <i>11.18</i> | | |
| <i>1406</i> | <i>28.23</i> | <i>5115</i> | <i>4808</i> | <i>8.30</i> | <i>2.56</i> | <i>11.03</i> | | |
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| | | | | | | | | |
| Comments: <i>40' diameter pool just south of channel. 75' from tracks. 2 inches of water of silty pond no movement of water</i> | | | | | | | | |
| Recorded by: <i>David Bellingham</i> | | | | | | | | |



720 Olive Way, Suite 1900
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287-9131
www.anchorqea.com

| Water Collection Form: Water Quality Monitoring | | | | | | | | |
|---|--------------|-------------|------------------------------------|-------------|-------------|------------------|--|--|
| Station ID: <i>MM-Sal-North</i> | | | Date <i>5/30/12</i> | | | Time <i>1432</i> | | |
| Project Name: <i>Jeld Wen</i> | | | Project Number <i>110909-01.01</i> | | | | | |
| Coordinates | | | | | | | | |
| Lat/Northing: <i>372900.3</i> | | | Long/Easting <i>1303973.7</i> | | | | | |
| Weather Observations: <i>overcast</i> | | | | | | | | |
| Param. | Temp. | Sp.Cond | Cond. | pH | Salinity | DO | | |
| ---Unit--- | | | | | | | | |
| Time | | | | | | | | |
| <i>1432</i> | <i>27.49</i> | <i>2790</i> | <i>2646</i> | <i>7.92</i> | <i>1.35</i> | <i>7.66</i> | | |
| <i>1433</i> | <i>28.24</i> | <i>2781</i> | <i>2615</i> | <i>7.84</i> | <i>1.35</i> | <i>7.24</i> | | |
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| | | | | | | | | |
| Comments: <i>150 ft from tracks - 2 inches of water in series of ponds - no odor or sheen near 15 stake no movement of water</i> | | | | | | | | |
| Recorded by: <i>David Bellingham</i> | | | | | | | | |

ATTACHMENT E-2

CHEMISTRY LABORATORY REPORTS

Provided separately due to large file sizes.

Table of Contents: ARI Job UU52, UU62

Client: Anchor QEA, LLC.

Project: 120909-01.01 Jeld Wen - Maulsby Marsh

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| Extractions Bench Sheets and Notes | <u>1161</u> | <u>1165</u> |
| Initial Calibration | <u>1166</u> | <u>1393</u> |
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AV
Signature

May-25-2012
Date

Table of Contents: ARI Job UU52, UU62

Client: Anchor QEA, LLC.

Project: 120909-01.01 Jeld Wen - Maulsby Marsh

| | Page From: | Page To: |
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| Extractions Bench Sheets and Notes | <u>1823</u> | <u>1827</u> |
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| Geotechnical Raw Data | | |
| Analyst Notes and Raw Data | <u>2264</u> | <u>2293</u> |

AV
Signature

May-25-2012
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 16, 2012

David Gillingham
Anchor QEA
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: Client Project: Jeld Wen Maulsby Marsh, 120909-01.01
ARI Job Nos.: UU52 & UU62

Dear David:

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

Sample receipt and details 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 "Cheronne Oreiro".

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile: UU52_UU62

Enclosures

Chain of Custody Documentation

ARI Job ID: UU52, UU62

Chain of Custody Record & Laboratory Analysis Request



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

| | | |
|---|-----------------------------------|----------------------------|
| ARI Assigned Number: | Turn-around Requested: Std | Page: 1 of 3 |
| ARI Client Company: Anchor QEA | Phone: 206 287 9130 | Date: 5/16/12 |
| Client Contact: Nathan Saccorsy / David Gillingham | | Ice Present? Y |
| Client Project Name: Jeld wen Maulsby Marsh | | No. of Coolers: |
| Client Project #: 120909-01.01 | Samplers: DG | Cooler Temps: |

| Sample ID | Date | Time | Matrix | No. Containers | Analysis Requested | | | | | | | | | Notes/Comments |
|--|---------|------|--------|----------------|---|---|---------------------------------|-----------------------------|-------------|----------|--------|---------|----------|----------------------|
| | | | | | PCB/Res | metals | SVOC | TPH | EPH Archive | Grainsiz | TS/TOC | Ammonia | sulfides | |
| MS001-SS-120515 | 5/15/12 | 1339 | Sed | 8 | X | X | X | X | X | X | X | X | X | |
| MS002-SS-120515 | | 1317 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS003-SS-120515 | | 1234 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS004-SS-120515 | | 1153 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS005-SS-120515 | | 855 | | | X | X | X | X | X | X | X | X | X | |
| MS006-SS-120515 | | 916 | | | X | X | X | X | X | X | X | X | X | |
| MS007-SS-120515 | | 945 | | | X | X | X | X | X | X | X | X | X | |
| MS008-SS-120515 | | 940 | | | X | X | X | X | X | X | X | X | X | |
| MS009-SS-120515 | | 1010 | | | X | X | X | X | X | X | X | X | X | |
| MS010-SS-120515 | | 1030 | ✓ | ✓ | | | | | | X | X | X | X | Hold select Analysis |
| Comments/Special Instructions EPH - extract only & hold. | | | | | Relinquished by: (Signature) <i>Cindy Fields</i> | Received by: (Signature) <i>Chris Atwell</i> | Relinquished by: (Signature) | Received by: (Signature) | | | | | | |
| | | | | | Printed Name: Cindy Fields | Printed Name: Chris Atwell | Printed Name: | Printed Name: | | | | | | |
| | | | | | Company: Anchor QEA | Company: ARI | Company: | Company: | | | | | | |
| | | | | | Date & Time: 5/16/2012 10:05am | Date & Time: 5/16/12 10:05 | Date & Time: | Date & Time: | | | | | | |

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

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

0522:0000



Cooler Receipt Form

ARI Client: Anchor DEA
 COC No(s): _____ NA
 Assigned ARI Job No: 0052

Project Name: JW - Maulsby Marsh
 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)..... 0.5 0.5 0.5 0.3 4.4 3.0 0.4
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 908 77952

Cooler Accepted by: CA Date: 5/16/12 Time: 10:05

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

Samples Logged by: TS Date: 5-16-12 Time: 1313

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

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
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Additional Notes, Discrepancies, & Resolutions:
MS101-55 Added to ^{at} COC job
 Per client request.
 Its a dupc taken from MS001-55

By: TS Date: 5-16-12

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

Chain of Custody Record & Laboratory Analysis Request



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

| | | |
|--|----------------------------|------------------------------|
| ARI Assigned Number: U462 | Turn-around Requested: | Page: 2 of 3 |
| ARI Client Company: Anchor OEA | Phone: 206 287 9130 | Date: 5/16/12 |
| Client Contact: Soccorso / Gillingham | | Ice Present? Y |
| Client Project Name: Seld Wen - Maulsby Marsh | | Nd. of Coolers: 7 |
| Client Project #: 120909-01.01 | Samplers: DG | Cooler Temps: 0.3-4.4 |

| Sample ID | Date | Time | Matrix | No. Containers | Analysis Requested | | | | | Notes/Comments |
|-------------------------------|---------|------|--------|----------------|--|---|------------|----------------|------------------------------|--------------------------|
| | | | | | Archive | EPH Archive | Grain Size | TS/TOC Ammonia | Total Sulfides | |
| MS110-SS-120515 | 5/15/12 | 1035 | Sed | 8 | X | X | X | X | X | |
| MS011-SS-120515 | | 1115 | | | X | X | X | X | X | |
| MS012-SS-120515 | | 1159 | | | X | X | X | X | X | |
| MS013-SS-120515 | | 1222 | | | X | X | X | X | X | |
| MS014-SS-120515 | | 1326 | | | X | X | X | X | X | |
| MS015-SS-120515 | | 1251 | | | X | X | X | X | X | |
| MS016-SS-120515 | | 1211 | | | X | X | X | X | X | |
| MS017-SS-120515 | | 1125 | | | X | X | X | X | X | |
| MS018-SS-120515 | | 1100 | ✓ | ✓ | X | X | X | X | X | |
| Comments/Special Instructions | | | | | Relinquished by: (Signature) Cindy Fields | Received by: (Signature) [Signature] | | | Relinquished by: (Signature) | Received by: (Signature) |
| | | | | | Printed Name: Cindy Fields | Printed Name: Chris Howell | | | Printed Name: | Printed Name: |
| | | | | | Company: Anchor OEA | Company: ARI | | | Company: | Company: |
| | | | | | Date & Time: 5-16-2012 10:05am | Date & Time: 5/16/12 10:05 | | | Date & Time: | Date & Time: |

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

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

0052:0005

Chain of Custody Record & Laboratory Analysis Request



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

| | | |
|---|-----------------------------------|-------------------------------|
| ARI Assigned Number: <u>WU62</u> | Turn-around Requested: <u>Std</u> | Page: <u>3</u> of <u>3</u> |
| ARI Client Company: <u>Anchor OEA</u> | Phone: <u>206-287-9130</u> | Date: <u>5/16/12</u> |
| Client Contact: <u>Socorsy / Gillingham</u> | No. of Coolers: <u>7</u> | Ice Present? <u>Yes</u> |
| | | Cooler Temps: <u>0.3, 4.4</u> |

| | | |
|--|--------------------|----------------|
| Client Project Name: <u>Jw - Maulsby Marsh</u> | Analysis Requested | Notes/Comments |
| Client Project #: <u>120909-01.01</u> | <u>Pcb/pest</u> | |
| Samplers: <u>DG</u> | <u>metals</u> | |
| | <u>SVOC</u> | |
| | <u>TPH</u> | |

| Sample ID | Date | Time | Matrix | No. Containers | Pcb/pest | metals | SVOC | TPH | | | | | | | | | |
|------------------------|----------------|-------------|--------------|----------------|----------|----------|----------|----------|--|--|--|--|--|--|--|--|--|
| <u>MS-SSRB-120515</u> | <u>5/15/12</u> | <u>1450</u> | <u>water</u> | <u>7</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | | |
| <u>MS-SS FB-120515</u> | <u>5/15/12</u> | <u>1500</u> | <u>water</u> | <u>7</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | | |
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|-------------------------------|---|--|---------------------------------|-----------------------------|
| Comments/Special Instructions | Relinquished by: (Signature) <u>Cindy Fields</u> | Received by: (Signature) <u>[Signature]</u> | Relinquished by: (Signature) | Received by: (Signature) |
| | Printed Name: <u>Cindy Fields</u> | Printed Name: <u>Chris Atwell</u> | Printed Name: | Printed Name: |
| | Company: <u>Anchor OEA</u> | Company: <u>ARI</u> | Company: | Company: |
| | Date & Time: <u>5/16/2012 10:05am</u> | Date & Time: <u>5/16/12 10:05</u> | Date & Time: | Date & Time: |

0052:00005

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

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



Cooler Receipt Form

ARI Client: Anchor DEA
 COC No(s): _____ (NA)
 Assigned ARI Job No: U162

Project Name: JW - mail sby Marsh
 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)..... 0.5 0.5 0.5 0.3 4.4 3.0 0.5
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 908 77952

Cooler Accepted by: CA Date: 5/16/12 Time: 10:05
 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: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 5/17/12 Time: 752

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

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
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Additional Notes, Discrepancies, & Resolutions:
 One 4oz jar labeled for H₂ analysis for sample MS013-SS-120515 arrived empty.

By: JM Date: 5/17/12

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

PRESERVATION VERIFICATION 05/17/12

Page 1 of 1



ARI Job No: **UU62**

PC: Cheronne

VTSR: 05/16/12

Inquiry Number: NONE

Analysis Requested: 05/16/12

Contact: Gillingham, David

Client: Anchor QEA, LLC.

Logged by: JM

Sample Set Used: Yes-491

Validatable Package: Lv4

Deliverables:

Project #: 120909-01.01

Project: Jeld Wen - Maulsby Marsh

Sample Site:

SDG No:

Analytical Protocol: PSDDA

| LOGNUM ARI ID | CLIENT ID | CN >12 | WAD >12 | NH3 <2 | COD <2 | FOG <2 | MET <2 | PHEN <2 | PHOS <2 | TKN <2 | NO23 <2 | TOC <2 | S2 >9 | AK102 <2 | Fe2+ <2 | DMET FLT | DOC FLT | PARAMETER | ADJUSTED TO | LOT NUMBER | AMOUNT ADDED | DATE/BY | |
|-------------------------|----------------|-----------|------------|-----------|-----------|-----------|--------------------|------------|------------|-----------|------------|-----------|----------|-------------|------------|-------------|------------|-----------|----------------|---------------|-----------------|---------|--|
| 12-8937 UU62J | MS-SSRB-120515 | | | | | | TOT <i>pass</i> | | | | | | | | | | | | | | | | |
| 12-8938 UU62K | MS-SSFB-120515 | | | | | | TOT <i>pass</i> | | | | | | | | | | | | | | | | |

U52:00003

Checked By JM Date 5/17/12

Subject: RE: UU52 Maulsby Marsh
From: Delaney Peterson <dpeterson@anchorqea.com>
Date: 3:10 PM
To: Cheronne Oreiro <cheronneo@arilabs.com>
CC: Cindy Fields <cfields@anchorqea.com>

Hi Delaney - To keep it simple, we'll create the duplicate from the first sample.
Thanks,
-Cheronne

On 5/16/2012 12:23 PM, Delaney Peterson wrote:

Hi Cheronne,
We need to create a field duplicate from one of the samples that is being analyzed for everything. The duplicate was accidentally taken on an archive sample. It doesn't matter which one so we can base it on volume. Will you check to see which sample would be the best one to split and create a field duplicate? Or just create one from the first sample and log it in for the same analyses of the parent sample? The id would be MS101-SS-120515.
Let me know if you have questions.
Thanks,
Delaney

Delaney Peterson

ANCHOR QEA, LLC
dpeterson@anchorqea.com
720 Olive Way, Suite 1900
Seattle, Washington 98101
T 206.287.9130
D 206.903.3396
F 206.287.9131

ANCHOR QEA, LLC
www.anchorqea.com

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Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: UU52, UU62



Case Narrative

Client: Anchor QEA
Project: Jeld Wen Maulsby Marsh, 120909-01.01
ARI Job Nos.: UU52 & UU62

Sample receipt

Twenty sediment samples and two water samples were received on May 16, 2012 under ARI jobs UU52 and UU62. Select sample containers archived upon receipt. The cooler temperatures measured by IR thermometer following ARI SOP were between 0.3 and 4.4°C. For further details regarding sample receipt, please refer to the Cooler Receipt Form.

Semivolatiles by SW8270

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

Initial calibrations were within method requirements.

The continuing calibration (CCAL) on 5/30/12 fell outside the 20% control limit low for Benzoic Acid. All detected sample results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

Several matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits for sample MS007-SS-120512. No corrective action is required for matrix QC.

Pesticides by SW8081

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

The sediment samples were initially diluted at the instrument due to extract color and low total solids results. The samples were re-analyzed on 5/26/12 at lesser dilutions to obtain lower reporting limits. Both sets of data have been reported for review. No further corrective action was taken.



Initial calibrations were within method requirements

Several compounds were outside the 20% control limit on both columns for the continuing calibrations (CCALs) on 5/26/12 at 10:43 and 13:33. DDT breakdowns associated with these CCALs were outside the 15% control limit. All data have been reported as is. No corrective action was taken.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

Both matrix spike and matrix spike duplicates could not be recovered for sample **MS002-SS-120515**. No corrective action is required for matrix QC.

Aroclor PCBs by SW8082

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

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recovery of Decachlorobiphenyl fell outside the control limits low for sample **MS-SSRB-120515**. All other percent recoveries were within control limits. No corrective action was taken.

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

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

NWTPH-Dx

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.



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

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

Metals and Mercury by SW6010C/200.8/7471A/7470

The samples and associated laboratory QC for ARI jobs were digested and analyzed within recommended holding times.

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

The matrix spike percent recovery of antimony fell outside the control limits low for sample **MS002-SS-120515**. A post digestion spike was performed and the recovery was within control limits. All relevant data have been flagged with an "N" qualifier on the appropriate Form V. No further corrective action was taken.

The duplicate RPDs were within control limits.

General Chemistry Parameters

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

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

The SRM percent recoveries were within limits.

The matrix spike percent recoveries and replicate RPD/RSDs were within control limits.

Geotechnical Parameters

A laboratory-specific case narrative follows this page.



Client: Anchor QEA, LLC

ARI Job No.: UU52

Client Project: Jeld Wen Maulsby Marsh

Client Project No.: 120909-01.01

Case Narrative

1. Eleven samples were submitted for grain size analysis according to Puget Sound Estuary Protocol (PSEP) methodology on May 16, 2012.
2. The samples appeared to be composed almost entirely of organic debris and/or organic fine material. The total solids percentages for these samples were extremely low.
3. The samples were run in a single batch and one sample from this job was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
4. Three samples did not contain the required 5 grams of fines for the pipette portion of the analysis. The analytical balance has a capacity of about 200 grams (by 0.0001 grams) and a sample that would yield 5 grams of fines could not be split and stay within the capacity of the balance. A full pipette was performed on the samples, because the percentage of fines was greater than 19%, but due to the low total solids percentages, these samples have been qualified on the QA summary.
5. One sample, MS008-SS-120515, had a QA percentage outside of the allowed range. A sample could not be resplit to come within the allowed QA range. The data has been qualified on the QA summary.
6. The samples contained woody or other organic matter which dried into a hard disk after the oven drying portion of the testing procedure. This material was extremely hard to break down and sieve. Individual organic particles may have broken down during the sieving process, also affecting grain size analysis.
7. The data is provided in summary tables and plots.
8. There were no other noted anomalies in this project.

Released by: *Lucina Curtis*
Title: Geotechnical Laboratory Manager

Date: 5/29/12

Reviewed by: *Robert Dale*
Title: Lead Technician

Date: May 29, 2012



Client: Anchor QEA, LLC

ARI Job No.: UU62

Client Project: Jeld Wen Maulsby Marsh

Client Project No.: 120909-01.01

Case Narrative

1. Nine samples were submitted for grain size analysis according to Puget Sound Estuary Protocol (PSEP) methodology on May 16, 2012.
2. The samples appeared to be composed almost entirely of organic debris and/or organic fine material. The total solids percentages for these samples were extremely low.
3. The samples were run in a single batch and one sample from another job was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
4. Two samples did not contain the required 5 grams of fines for the pipette portion of the analysis. The analytical balance has a capacity of about 200 grams (by 0.0001 grams) and a sample that would yield 5 grams of fines could not be split and stay within the capacity of the balance. A full pipette was performed on the samples, because the percentage of fines was greater than 15%, but due to the low total solids percentages, these samples have been qualified on the QA summary.
5. The samples contained woody or other organic matter which dried into a hard disk after the oven drying portion of the testing procedure. This material was extremely hard to break down and sieve. Individual organic particles may have broken down during the sieving process, also affecting grain size analysis.
6. The data is provided in summary tables and plots.
7. There were no other noted anomalies in this project.

Released by: *Lucina Curtis*
Title: Geotechnical Laboratory Manager

Date: 5/21/12

Reviewed by: *Elizabeth Noble*
Title: Lead Technician

Date: May 29, 2012

Sample ID Cross Reference Report



ARI Job No: UU52
Client: Anchor QEA, LLC.
Project Event: 120909-01.01
Project Name: Jeld Wen Maulsby Marsh

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|---------------------|------------|-------------|----------|------------------|----------------|
| 1. MS001-SS-120515 | UU52A | 12-8893 | Sediment | 05/15/12 13:39 | 05/16/12 10:05 |
| 2. MS101-SS-120515 | UU52B | 12-8894 | Sediment | 05/15/12 13:39 | 05/16/12 10:05 |
| 3. MS002-SS-120515 | UU52C | 12-8895 | Sediment | 05/15/12 13:17 | 05/16/12 10:05 |
| 4. MS003-SS-120515 | UU52D | 12-8896 | Sediment | 05/15/12 12:34 | 05/16/12 10:05 |
| 5. MS004-SS-120515 | UU52E | 12-8897 | Sediment | 05/15/12 11:53 | 05/16/12 10:05 |
| 6. MS005-SS-120515 | UU52F | 12-8898 | Sediment | 05/15/12 08:55 | 05/16/12 10:05 |
| 7. MS006-SS-120515 | UU52G | 12-8899 | Sediment | 05/15/12 09:16 | 05/16/12 10:05 |
| 8. MS007-SS-120515 | UU52H | 12-8900 | Sediment | 05/15/12 09:45 | 05/16/12 10:05 |
| 9. MS008-SS-120515 | UU52I | 12-8901 | Sediment | 05/15/12 09:40 | 05/16/12 10:05 |
| 10. MS009-SS-120515 | UU52J | 12-8902 | Sediment | 05/15/12 10:10 | 05/16/12 10:05 |
| 11. MS010-SS-120515 | UU52K | 12-8903 | Sediment | 05/15/12 10:30 | 05/16/12 10:05 |

Sample ID Cross Reference Report



ARI Job No: UU62
Client: Anchor QEA, LLC.
Project Event: 120909-01.01
Project Name: Jeld Wen - Maulsby Marsh

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|--------------------|------------|-------------|----------|------------------|----------------|
| 1. MS110-SS-120515 | UU62A | 12-8928 | Sediment | 05/15/12 10:35 | 05/16/12 10:05 |
| 2. MS011-SS-120515 | UU62B | 12-8929 | Sediment | 05/15/12 11:15 | 05/16/12 10:05 |
| 3. MS012-SS-120515 | UU62C | 12-8930 | Sediment | 05/15/12 11:59 | 05/16/12 10:05 |
| 4. MS013-SS-120515 | UU62D | 12-8931 | Sediment | 05/15/12 12:22 | 05/16/12 10:05 |
| 5. MS014-SS-120515 | UU62E | 12-8932 | Sediment | 05/15/12 13:26 | 05/16/12 10:05 |
| 6. MS015-SS-120515 | UU62F | 12-8933 | Sediment | 05/15/12 12:51 | 05/16/12 10:05 |
| 7. MS016-SS-120515 | UU62G | 12-8934 | Sediment | 05/15/12 12:11 | 05/16/12 10:05 |
| 8. MS017-SS-120515 | UU62H | 12-8935 | Sediment | 05/15/12 11:25 | 05/16/12 10:05 |
| 9. MS018-SS-120515 | UU62I | 12-8936 | Sediment | 05/15/12 11:00 | 05/16/12 10:05 |
| 10. MS-SSRB-120515 | UU62J | 12-8937 | Water | 05/15/12 14:50 | 05/16/12 10:05 |
| 11. MS-SSFB-120515 | UU62K | 12-8938 | Water | 05/15/12 15:00 | 05/16/12 10:05 |



Data Reporting Qualifiers

Effective 2/14/2011

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.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

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

SURRE SOLUTIONS

| LABEL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|-------|---------|------------|-------------|---------|----------|
| A | 1953-4 | ABN | 100/150 | MEOH | 07/05/12 |
| B | 1917-2 | SIM PNA | 15/75 | ACETONE | 05/30/12 |
| C | NA | SIM ABN | 25/37.5 | MEOH | NA |
| D | 1925-5 | LOW PCB | 0.2 | ACETONE | 05/28/12 |
| E | 1900-2 | HERB | 62.5 | MEOH | 10/06/12 |
| F | 1919-5 | PCP | 12.5 | ACETONE | 12/09/12 |
| G | 1906-3 | d8-DIOXANE | 100 | MEOH | 04/30/12 |
| H | 1847-2 | OP-PEST | 25 | ACETONE | 03/23/12 |
| I | 1896-3 | LOW S. PNA | 1.5 | ACETONE | 09/22/12 |
| J | 1915-4 | TBT-PORE | 0.125 | MECL2 | 11/23/12 |
| K | 1925-4 | MED PCB | 20 | ACETONE | 05/28/12 |
| L | 1915-3 | TBT | 2.5 | MECL2 | 11/23/12 |
| M | 1888-4 | EPH | 1500 | MECL2 | 04/04/12 |
| N | 1914-2 | PCB | 2 | ACETONE | 05/28/12 |
| O | 1947-2 | TPH | 450 | MECL2 | 09/28/12 |
| P | 1948-3 | HCID | 2250 | MECL2 | 09/28/12 |
| Q | NA | EDB | 1 | MEOH | NA |
| R | NA | RESIN ACID | 250 | ACETONE | NA |
| S | 1864-1 | PBDE | .5 | MEOH | 05/21/12 |
| T | 1884-2 | ALKYL PNA | 10 | MEOH | 07/15/12 |
| U | NA | CONGENER | 2.5 | ACETONE | NA |
| V | 1925-2 | LOW PCP | 1.25 | ACETONE | 12/09/12 |
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LCS SOLUTIONS

| LABL | SOLN ID | TEST | CONC. UG/ML | SOLVENT | EXP. |
|------|---------|-------------|-------------|---------|----------|
| 1 | 1907-1 | PCB 1660 | 20 | ACETONE | 11/01/12 |
| 2# | | BCOC PEST | 10 | ACETONE | NA |
| 3 | 1922-2 | PEST | 01/02/10 | ACETONE | 12/13/12 |
| 4 | 1922-3 | LOW PEST | .1/.2/1 | ACETONE | 12/13/12 |
| 5 | 1902-4 | EPH | 1500 | MECL2 | 10/04/12 |
| 6 | 1919-2 | PCP | 12.5/125 | ACETONE | 10/15/12 |
| 7 | 1926-2 | ABN | 100 | MEOH | 05/31/12 |
| 8 | 1916-2 | TBT | 2.5 | MECL2 | 11/23/12 |
| 9 | 1918-2 | PORE TBT | .125/.25 | MECL2 | 11/23/12 |
| 10 | | | | | |
| 11 | 1860-4 | TPHD | 15000 | ACETONE | 05/12/12 |
| 12 | | | | | |
| 13 | 1948-1 | LOW PCB | 2 | ACETONE | 11/01/12 |
| 14 | | | | | |
| 15 | 1929-1 | SIM PNA | 15/75 | MEOH | 06/21/12 |
| 16 | 1906-4 | 1,4-DIOXANE | 100 | MEOH | 04/30/12 |
| 17 | 1869-4 | 1248 PCB | 10 | ACETONE | 06/14/12 |
| 18 | 1927-2 | LOW SIM PNA | 1.5 | ACETONE | 06/20/12 |
| 19 | 1931-1 | AK103 | 7500 | ACETONE | 05/17/12 |
| 20 | 1930-1 | PNA | 100 | ACETONE | 06/23/12 |
| 21 | 1943-2 | SKY/BHT | 100 | MEOH | 07/27/12 |
| 22 | 1957-1 | HERB | 04 to 5000 | MEOH | 04/22/12 |
| 23 | 1887-2 | EXTRA PNA | 15 | ACETONE | 08/25/12 |
| 24 | | | | | |
| 25# | | DIPHENYL | 100 | MEOH | NA |
| 26 | 1951-2 | OP-PEST | 25 | MEOH | 03/31/12 |
| 27 | | STEROLS | 200 | MEOH | NA |
| 28# | | ADD. PEST | 2 | ACETONE | NA |
| 29# | | DECANES | 100 | MEOH | NA |

LCS SOLUTIONS

3/14/12

| | | | | | |
|----|--------|-----------------------------|---------|---------|----------|
| 30 | | EDB/DBCP | 0.2 | MEOH | NA |
| 31 | 1944-1 | TERPINEOL | 100 | MEOH | 07/27/12 |
| 32 | NA | GUAIACOL | 50-200 | ACETONE | NA |
| 33 | | RETENE | 100 | MEOH | NA |
| 34 | NA | CONGENERS | 0.5 | ACETONE | NA |
| 35 | 1875-3 | ALKYL PNA A | 10 | MEOH | 07/18/12 |
| 36 | | ALKYL PNA B | 10 | MEOH | NA |
| 37 | | CAR/PERY | 100 | ACETONE | NA |
| 38 | 1926-3 | ABN ACID | 200-450 | MEOH | 06/19/12 |
| 39 | 1853-4 | BENZIDINE | 500 | MEOH | 04/30/12 |
| 40 | 1851-3 | PBDE | 0.5 | MEOH | 04/22/12 |
| 50 | 1900-1 | FULL RESIN | 250 | ACETONE | 08/12/12 |
| 51 | | DDTS | 0.01 | ACETONE | NA |
| 52 | | 1232 PCB | 20 | ACETONE | NA |
| 53 | 1919-1 | DALAPON | 50 | MEOH | 08/22/12 |
| 54 | | T-CHLORDANE | 10 | ACETONE | NA |
| 55 | | TOXAPHENE | 50 | ACETONE | NA |
| 56 | 1952-3 | ABN BASE | 50-200 | MEOH | 08/14/12 |
| | | #=PROJECT SPECIFIC SOLUTION | | | |
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LOD, LOQ and Control Limits Summary
GC - MS – SVOA Analysis of Aqueous Samples
EPA Method 8270D
ARI Analysis: BANWLI & BANWSI

Continuous Liquid-Liquid (EPA Method 3520C, Bench Sheet 3006F) or Separatory Funnel (EPA method 3510C, Bench Sheet 3010F) extraction using 500mL sample concentrated to 0.5 mL final extract volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | DL ¹ µg/L | LOD ¹ µg/L | LOQ ¹ µg/L | LCS, MS Recovery ^{2,3} | Replicate RPD ⁴ |
|------------------------------|-------------------------|-----------------------|--------------------------|------------------------------------|-------------------------------|
| Phenol | 0.445 | 0.5 | 1 | 26 – 112 | ≤ 40 |
| Bis(2-Chloroethyl)ether | 0.257 | 0.5 | 1 | 51 – 100 | ≤ 40 |
| 2-Chlorophenol | 0.246 | 0.5 | 1 | 50 – 100 | ≤ 40 |
| 1,3-Dichlorobenzene | 0.499 | 0.5 | 1 | 27 – 100 | ≤ 40 |
| 1,4-Dichlorobenzene | 0.470 | 0.5 | 1 | 29 – 100 | ≤ 40 |
| 1,2-Dichlorobenzene | 0.436 | 0.5 | 1 | 32 – 100 | ≤ 40 |
| Benzyl alcohol | 0.409 | 1.0 | 2 | 10 - 128 | ≤ 40 |
| 2,2'-oxybis(1-Chloropropane) | 0.221 | 0.5 | 1 | 39 - 101 | ≤ 40 |
| 2-Methylphenol | 0.329 | 0.5 | 1 | 47 – 100 | ≤ 40 |
| Hexachloroethane | 0.610 | 1.0 | 2 | 19 – 100 | ≤ 40 |
| N-Nitroso-di-n-propylamine | 0.365 | 0.5 | 1 | 46 – 100 | ≤ 40 |
| 4-Methylphenol | 0.536 | 1.0 | 2 | 46 – 100 | ≤ 40 |
| Nitrobenzene | 0.490 | 0.5 | 1 | 46 – 103 | ≤ 40 |
| Isophorone | 0.258 | 0.5 | 1 | 62 – 105 | ≤ 40 |
| 2-Nitrophenol | 0.979 | 1.5 | 3 | 32 – 116 | ≤ 40 |
| 2,4-Dimethylphenol | 0.627 | 1.5 | 3 | 15 – 100 | ≤ 40 |
| Bis(2-Chloroethoxy)methane | 0.252 | 0.5 | 1 | 44 – 100 | ≤ 40 |
| 2,4-Dichlorophenol | 1.109 | 1.5 | 3 | 35 – 114 | ≤ 40 |
| 1,2,4-Trichlorobenzene | 0.495 | 0.5 | 1 | 34 – 100 | ≤ 40 |
| Naphthalene | 0.326 | 0.5 | 1 | 48 – 100 | ≤ 40 |
| Benzoic acid | 8.647 | 10 | 20 | 10 - 172 | ≤ 40 |
| 4-Chloroaniline | 1.733 | 2.5 | 5 | 10 - 153 | ≤ 40 |
| 2,6-Dinitrotoluene | 1.300 | 1.5 | 3 | 32 – 129 | ≤ 40 |
| Hexachlorobutadiene | 0.604 | 1.5 | 3 | 22 – 100 | ≤ 40 |
| 4-Chloro-3-methylphenol | 0.919 | 1.5 | 3 | 33 – 123 | ≤ 40 |
| Hexachlorocyclopentadiene | 1.862 | 2.5 | 5 | 10 – 100 | ≤ 40 |
| 2,4,6-Trichlorophenol | 1.235 | 1.5 | 3 | 37 – 120 | ≤ 40 |
| 2,4,5-Trichlorophenol | 1.706 | 2.5 | 5 | 37 – 124 | ≤ 40 |
| 2-Chloronaphthalene | 0.340 | 0.5 | 1 | 49 – 100 | ≤ 40 |
| 2-Nitroaniline | 0.784 | 1.5 | 3 | 18 – 140 | ≤ 40 |
| Acenaphthylene | 0.274 | 0.5 | 1 | 47 – 110 | ≤ 40 |
| Dimethylphthalate | 0.264 | 0.5 | 1 | 60 – 106 | ≤ 40 |
| Acenaphthene | 0.347 | 0.5 | 1 | 55 – 101 | ≤ 40 |



LOD, LOQ and Control Limits Summary
GC - MS – SVOA Analysis of Aqueous Samples
EPA Method 8270D
ARI Analysis: BANWLI & BANWSI

Continuous Liquid-Liquid (EPA Method 3520C, Bench Sheet 3006F) or Separatory Funnel (EPA method 3510C, Bench Sheet 3010F) extraction using 500mL sample concentrated to 0.5 mL final extract volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | DL ¹ µg/L | LOD ¹ µg/L | LOQ ¹ µg/L | LCS, MS Recovery ^{2,3} | Replicate RPD ⁴ |
|----------------------------|-------------------------|-----------------------|--------------------------|------------------------------------|-------------------------------|
| 3-Nitroaniline | 1.140 | 1.5 | 3 | 10 – 208 | ≤ 40 |
| 2-Methylnaphthalene | 0.241 | 0.5 | 1 | 38 – 100 | ≤ 40 |
| 2,4-Dinitrophenol | 5.474 | 10 | 20 | 10 – 224 | ≤ 40 |
| Dibenzofuran | 0.198 | 0.5 | 1 | 46 – 108 | ≤ 40 |
| 4-Nitrophenol | 2.895 | 5.0 | 10 | 10 – 103 | ≤ 40 |
| 2,4-Dinitrotoluene | 1.277 | 1.5 | 3 | 33 – 134 | ≤ 40 |
| Fluorene | 0.266 | 0.5 | 1 | 59 – 108 | ≤ 40 |
| 4-Chlorophenyl-phenylether | 0.342 | 0.5 | 1 | 54 – 104 | ≤ 40 |
| Diethylphthalate | 0.407 | 0.5 | 1 | 60 - 108 | ≤ 40 |
| 4-Nitroaniline | 1.366 | 1.5 | 3 | 13 – 144 | ≤ 40 |
| 4,6-Dinitro-2-methylphenol | 4.928 | 5.0 | 10 | 10 – 190 | ≤ 40 |
| N-Nitrosodiphenylamine | 0.392 | 0.5 | 1 | 39 – 100 | ≤ 40 |
| 4-Bromophenyl-phenylether | 0.262 | 0.5 | 1 | 56 – 105 | ≤ 40 |
| Hexachlorobenzene | 0.335 | 0.5 | 1 | 54 – 108 | ≤ 40 |
| Pentachlorophenol | 2.746 | 5.0 | 10 | 25 – 144 | ≤ 40 |
| Phenanthrene | 0.283 | 0.5 | 1 | 64 – 115 | ≤ 40 |
| Anthracene | 0.303 | 0.5 | 1 | 59 – 107 | ≤ 40 |
| Carbazole | 0.251 | 0.5 | 1 | 36 – 123 | ≤ 40 |
| Di-n-butylphthalate | 0.304 | 0.5 | 1 | 62 – 110 | ≤ 40 |
| Fluoranthene | 0.290 | 0.5 | 1 | 63 – 119 | ≤ 40 |
| Pyrene | 0.379 | 0.5 | 1 | 57 – 117 | ≤ 40 |
| Butylbenzylphthalate | 0.402 | 0.5 | 1 | 49 – 118 | ≤ 40 |
| Benzo(a)anthracene | 0.373 | 0.5 | 1 | 61 – 113 | ≤ 40 |
| 3,3'-Dichlorobenzidine | 1.553 | 2.5 | 5 | 10 – 151 | ≤ 40 |
| Chrysene | 0.397 | 0.5 | 1 | 62 – 115 | ≤ 40 |
| bis(2-Ethylhexyl)phthalate | 1.050 | 1.5 | 3 | 47 – 127 | ≤ 40 |
| Di-n-octylphthalate | 0.331 | 0.5 | 1 | 60 – 106 | ≤ 40 |
| Benzo(b)fluoranthene | 0.298 | 0.5 | 1 | 61 – 120 | ≤ 40 |
| Benzo(k)fluoranthene | 0.487 | 0.5 | 1 | 59 – 120 | ≤ 40 |
| Benzo(a)pyrene | 0.425 | 0.5 | 1 | 46 – 105 | ≤ 40 |
| Indeno(1,2,3-cd)pyrene | 0.435 | 0.5 | 1 | 42 – 134 | ≤ 40 |
| Dibenzo(a,h)anthracene | 0.437 | 0.5 | 1 | 46 – 132 | ≤ 40 |
| Benzo(g,h,i)perylene | 0.464 | 0.5 | 1 | 33 – 135 | ≤ 40 |
| N-Nitrosodimethylamine | 1.209 | 1.5 | 3 | 17 - 106 | ≤ 40 |



LOD, LOQ and Control Limits Summary
GC - MS – SVOA Analysis of Aqueous Samples
EPA Method 8270D
ARI Analysis: BANWLI & BANWSI

Continuous Liquid-Liquid (EPA Method 3520C, Bench Sheet 3006F) or Separatory Funnel (EPA method 3510C, Bench Sheet 3010F) extraction using 500mL sample concentrated to 0.5 mL final extract volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | DL ¹ µg/L | LOD ¹ µg/L | LOQ ¹ µg/L | LCS, MS Recovery ^{2,3} | Replicate RPD ⁴ |
|------------------------------------|-------------------------|-----------------------|--------------------------|------------------------------------|-------------------------------|
| Aniline | 0.470 | 0.5 | 1 | 10 – 113 | ≤ 40 |
| 1-methylnaphthalene | 0.199 | 0.5 | 1 | 43 – 100 | ≤ 40 |
| Azobenzene (1,2-DP-Hydrazine) | 0.214 | 0.5 | 1 | 52 - 111 | ≤ 40 |
| Benzofluoranthenes, Total | 2.317 | 2.5 | 5 | | ≤ 40 |
| 1,4-Dioxane ⁵ | | | | 13 – 114 | ≤ 40 |
| Surrogate Standard Recovery | | | MB / LCS | Samples | RPD |
| 2-Fluorophenol | | | 33 – 100 | 23 – 100 | ≤ 40 |
| Phenol-d ₅ | | | 15 - 121 | 16 – 106 | ≤ 40 |
| 2-Chlorophenol-d ₄ | | | 46 – 102 | 33 – 100 | ≤ 40 |
| 1,2-Dichlorobenzene-d ₄ | | | 40 – 100 | 27 – 100 | ≤ 40 |
| Nitrobenzene-d ₅ | | | 50 – 100 | 34 – 101 | ≤ 40 |
| 2-Fluorobiphenyl | | | 51 – 100 | 38 – 100 | ≤ 40 |
| 2,4,6-Tribromophenol | | | 46 – 125 | 31 – 128 | ≤ 40 |
| p-Terphenyl-d ₁₄ | | | 54 – 117 | 27 – 122 | ≤ 40 |

(1) Detection Limit (DL), Limit of Detection (LOD) and Limit of Quantitation (LOQ) are defined in ARI SOP 1018S

(2) Control limits calculated using all data from 8/1/10 through 7/31/11.

(3) Highlighted control limits (**bold font**) are adjusted from the calculated values to reflect that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(4) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(5) Sample extracts for 1,4-Dioxane analysis are concentrated to 1 mL.



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | Full Scan Analysis | | | SIM Analysis | | | LCS,MS Control Limits | RPD ² |
|--------------------------------|--------------------|-----|------------------|--------------|-----|-----------------|-----------------------|------------------|
| | DL | LOD | LOQ | DL | LOD | LOQ | | |
| Phenol | 8.65 | 10 | 20 | 2.56 | 5 | 5 | 30 – 160 | ≤ 40 |
| bis-(2-Chloroethyl)ether | 3.35 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Chlorophenol | 2.39 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 1,3-Dichlorobenzene | 2.63 | 10 | 20 | 1.31 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| 1,4-Dichlorobenzene | 2.86 | 10 | 20 | 1.19 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| 1,2-Dichlorobenzene | 2.50 | 10 | 20 | 1.10 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| Benzyl alcohol | 6.09 | 10 | 20 | 7.04 | 10 | 20 ³ | 30 – 160 | ≤ 40 |
| 2,2'-oxy-bis-(1-Chloropropane) | 3.76 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Methylphenol | 5.25 | 10 | 20 | 1.81 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| Hexachloroethane | 2.94 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| N-Nitroso-di-n-propylamine | 3.36 | 10 | 20 | 9.48 | 10 | 12 ³ | 30 – 160 | ≤ 40 |
| 4-Methylphenol ⁶ | 6.63 | 20 | 40 | 2.52 | 5 | 10 | 30 – 160 | ≤ 40 |
| Nitrobenzene | 4.06 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Isophorone | 2.86 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Nitrophenol | 38.7 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2,4-Dimethylphenol | 3.46 | 20 | 40 | 2.89 | 10 | 20 | 30 – 160 | ≤ 40 |
| bis-(2-Chloroethoxy)methane | 2.00 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2,4-Dichlorophenol | 21.5 | 100 | 200 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 1,2,4-Trichlorobenzene | 3.48 | 10 | 20 | 1.86 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| Naphthalene | 2.76 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Benzoic acid | 101 | 200 | 400 ⁵ | -- | -- | -- | 30 – 160 | ≤ 40 |
| 4-Chloroaniline | 22.3 | 135 | 270 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| Hexachlorobutadiene | 4.57 | 50 | 100 | 0.96 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| 4-Chloro-3-methylphenol | 15.1 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Methylnaphthalene | 3.06 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Hexachlorocyclopentadiene | 66.4 | 200 | 400 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2,4,6-Trichlorophenol | 22.4 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2,4,5-Trichlorophenol | 21.4 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Chloronaphthalene | 2.64 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2-Nitroaniline | 18.4 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Acenaphthylene | 5.71 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Dimethylphthalate | 2.90 | 10 | 20 | 1.34 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| 2,6-Dinitrotoluene | 30.6 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Acenaphthene | 3.28 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 3-Nitroaniline | 22.5 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | Full Scan Analysis | | | SIM Analysis | | | LCS,MS Control Limits | RPD ² |
|--------------------------------------|--------------------|-----|------------------|--------------|-----|-----|-----------------------|------------------|
| | DL | LOD | LOQ | DL | LOD | LOQ | | |
| 2,4-Dinitrophenol | 111 | 425 | 850 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| Dibenzofuran | 4.10 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 4-Nitrophenol | 34.7 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 2,4-Dinitrotoluene | 19.5 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Fluorene | 4.35 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 4-Chlorophenyl-phenylether | 5.29 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Diethylphthalate | 36.6 | 50 | 50 ³ | 3.26 | 5.0 | 5.0 | 30 – 160 | ≤ 40 |
| 4-Nitroaniline | 37.9 | 50 | 100 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 4,6-Dinitro-2-methylphenol | 21.2 | 100 | 200 | -- | -- | -- | 30 – 160 | ≤ 40 |
| N-Nitrosodiphenylamine | 5.39 | 10 | 20 | 1.38 | 10 | 20 | 30 – 160 | ≤ 40 |
| 4-Bromophenyl-phenylether | 5.03 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Hexachlorobenzene | 4.29 | 10 | 20 | 1.26 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| Pentachlorophenol | 48.5 | 100 | 200 ⁴ | 14.3 | 25 | 50 | 30 – 160 | ≤ 40 |
| Phenanthrene | 3.64 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Anthracene | 4.50 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Carbazole | 2.69 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Di-n-butylphthalate | 8.16 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Fluoranthene | 2.91 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Pyrene | 1.94 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Butylbenzylphthalate | 6.14 | 10 | 20 | 2.89 | 5.0 | 5 | 30 – 160 | ≤ 40 |
| Benzo(a)anthracene | 3.29 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| 3,3'-Dichlorobenzidine | 17.8 | 75 | 150 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| Chrysene | 3.75 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| bis-(2-Ethylhexyl)phthalate | 14.6 | 20 | 25 ³ | -- | -- | -- | 30 – 160 | ≤ 40 |
| Di-n-octylphthalate | 5.84 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Benzo(b)fluoranthene ⁷ | 3.47 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Benzo(k)fluoranthene ⁷ | 4.18 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Benzofluoranthene-Total ⁸ | 6.67 | 20 | 40 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Benzo(a)pyrene | 5.45 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Indeno(1,2,3-cd)pyrene | 4.68 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Dibenzo(a,h)anthracene | 4.31 | 10 | 20 | 2.02 | 2.5 | 5 | 30 – 160 | ≤ 40 |
| Benzo(g,h,i)perylene | 4.40 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| N-Nitrosodimethylamine | 14.1 | 50 | 100 | 3.15 | 13 | 25 | 30 – 160 | ≤ 40 |
| Aniline | 40.0 | 270 | 540 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| Pyridine | 32.7 | 75 | 150 ⁴ | -- | -- | -- | 30 – 160 | ≤ 40 |
| 1-Methylnaphthalene | 2.68 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |



DL¹ LOD¹, LOQ¹ and Control Limits Summary
GC - MS – SVOA Analysis of Sediment
EPA Method 8270 Full Scan & SIM

Microwave Extraction (EPA Method 3546, Bench Sheet 3093F) - 10 g sample with extract concentrated to 1 mL final volume

LOD Spike level = LOQ (unless otherwise noted)

| Analyte | Full Scan Analysis | | | SIM Analysis | | | LCS,MS Control Limits | RPD ² |
|------------------------------------|--------------------|-----|-----|--------------|-----|-----------------|-----------------------|------------------|
| | DL | LOD | LOQ | DL | LOD | LOQ | | |
| Azobenzene (1,2-DP-Hydrazine) | 2.98 | 10 | 20 | -- | -- | -- | 30 – 160 | ≤ 40 |
| Surrogate Standards | | | | | | MB / LCS | Samples | RPD |
| 2-Fluorophenol | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| Phenol-d ₅ | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| 2-Chlorophenol-d ₄ | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| 1,2-Dichlorobenzene-d ₄ | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| Nitrobenzene-d ₅ | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| 2-Fluorobiphenyl | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| 2,4,6-Tribromophenol | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |
| p-Terphenyl-d ₁₄ | | | | | | 30 – 160 | 30 – 160 | ≤ 40 |

(1) Detection Limit (DL), Limit of Detection (LOD), Limit of Quantitation (LOQ) are defined in ARI SOP 1018S

(2) Relative Percent Difference between analytes in replicate analyzes. If C_o and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(3) Spiked at 5 ppb

(4) Spiked at 100 ppb

(5) Spiked at 200 ppb

(6) 3-Methylphenol (not calibrated) co-elutes with 4-Methylphenol (calibrated)

(7) Benzo(b)fluoranthene and Benzo(k)fluoranthene are reported as separate analytes only when the height of the valley between the isomer peaks is less than 50% of the average of the two peak heights, otherwise total Benzofluoranthenes are reported.

(8) Benzo(b)fluoranthene + Benzo(j)fluoranthene + Benzo(k)fluoranthene (only the b & k isomers are calibrated)



Spike Recovery Control Limits for Chlorinated Pesticides
EPA Method SW-846-8081B Analysis of Aqueous Samples ^(1,5)
Effective 9/20/10

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

| Sample Volume / Final Volume | 500 mL to 5 mL | | 1000 / 1 mL | |
|--|-----------------|--------------------------|-----------------|--------------------------|
| | Control Limits | ME Limits ⁽²⁾ | Control Limits | ME Limits ⁽²⁾ |
| LCS Spike Recovery ⁽⁴⁾ | | | | |
| <i>alpha</i> -BHC | 73 - 107 | 67 - 113 | 37 - 110 | 25 - 122 |
| <i>beta</i> -BHC | 68 - 116 | 60 - 124 | 33 - 112 | 20 - 125 |
| <i>delta</i> -BHC | 42 - 114 | 30 - 126 | 18 - 127 | 10 - 145 |
| <i>gamma</i> -BHC (Lindane) | 75 - 111 | 69 - 117 | 36 - 120 | 22 - 134 |
| Heptachlor | 60 - 100 | 53 - 107 | 34 - 103 | 23 - 115 |
| Aldrin | 54 - 101 | 46 - 109 | 28 - 110 | 14 - 124 |
| Hepachlor Epoxide | 72 - 116 | 65 - 123 | 36 - 132 | 20 - 148 |
| Endosulfan I | 72 - 122 | 64 - 130 | 42 - 116 | 30 - 128 |
| Dieldrin | 75 - 124 | 67 - 132 | 46 - 117 | 34 - 129 |
| 4,4'-DDE | 72 - 125 | 63 - 134 | 45 - 126 | 32 - 140 |
| Endrin | 66 - 116 | 58 - 124 | 34 - 131 | 18 - 147 |
| Endosulfan II | 73 - 107 | 67 - 113 | 36 - 128 | 21 - 143 |
| 4,4'-DDD | 67 - 106 | 61 - 113 | 33 - 138 | 16 - 156 |
| Endosulfan Sulfate | 62 - 100 | 56 - 106 | 25 - 116 | 10 - 131 |
| 4,4'-DDT | 69 - 108 | 63 - 115 | 24 - 148 | 10 - 169 |
| Methoxychlor | 67 - 107 | 60 - 114 | 25 - 139 | 10 - 158 |
| Endrin Ketone | 72 - 102 | 67 - 107 | 34 - 137 | 17 - 154 |
| Endrin Aldehyde | 43 - 108 | 32 - 119 | 10 - 108 | 10 - 126 |
| <i>trans</i> -Chlordane (<i>beta</i> -Chlordane, <i>gamma</i> -Chlordane) | 69 - 118 | 61 - 126 | 37 - 126 | 22 - 141 |
| <i>cis</i> -Chlordane (<i>alpha</i> -chlordane) | 71 - 118 | 63 - 126 | 44 - 116 | 32 - 128 |
| Hexachlorobenzene | 45 - 100 | 38 - 100 | 28 - 100 | 17 - 107 |
| Hexachlorobutadiene | 19 - 100 | 10 - 104 | 21 - 100 | 11 - 100 |
| | | | | |
| MB / LCS Surrogate Recovery | | | | |
| Tetrachloro- <i>m</i> -xylene (TCMX) | 52 - 100 | (3) | 25 - 100 | (3) |
| Decachlorobiphenyl | 54 - 100 | (3) | 34 - 115 | (3) |
| | | | | |
| Sample Surrogate Recovery | | | | |
| Tetrachloro-xylene (TCMX) | 43 - 106 | (3) | 11 - 110 | (3) |
| Decachlorobiphenyl | 32 - 116 | (3) | 13 - 133 | (3) |

(1) Control limits calculated using all recovery data from 9/1/09 through 8/31/10.

(2) **ME** = A **marginal exceedance** defined in the NELAC Standard ⁽⁶⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(3) Marginal Exceedances not allowed for a surrogate standard.

(4) 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.

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

(6) 2003 NELAC Standard (EPA/600/R-04/003), July 2003, Chapter 5, pages 251-252.



Spike Recovery Control Limits for Chlorinated Pesticides EPA Method SW-846-8081B Analysis of Soil / Sediment Samples ^(1,2)

Effective 10/25/11

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 Dry Weight / Final Vol. | 12.5 g to 2.5 mL | |
|--|---------------------------|--------------------------|
| Extraction Method | Microwave EPA Method 3546 | |
| LCS Spike Recovery ⁽⁵⁾ | Control Limits | ME Limits ⁽³⁾ |
| <i>alpha</i> -BHC | 49 - 111 | 39 - 121 |
| <i>beta</i> -BHC | 54 - 107 | 45 - 116 |
| <i>delta</i> -BHC | 72 - 112 | 65 - 119 |
| <i>gamma</i> -BHC (Lindane) | 54 - 115 | 44 - 125 |
| Heptachlor | 45 - 133 | 30 - 148 |
| Aldrin | 53 - 114 | 43 - 124 |
| Hepachlor Epoxide | 60 - 121 | 50 - 131 |
| Endosulfan I | 40 - 129 | 25 - 144 |
| Dieldrin | 68 - 123 | 59 - 132 |
| 4,4'-DDE | 66 - 124 | 56 - 134 |
| Endrin | 60 - 135 | 48 - 148 |
| Endosulfan II | 46 - 130 | 32 - 144 |
| 4,4'-DDD | 54 - 129 | 42 - 142 |
| Endosulfan Sulfate | 36 - 110 | 24 - 122 |
| 4,4'-DDT | 50 - 133 | 36 - 147 |
| Methoxychlor | 46 - 138 | 31 - 153 |
| Endrin Ketone | 45 - 131 | 31 - 145 |
| Endrin Aldehyde | 25 - 100 | 13 - 113 |
| <i>trans</i> -Chlordane (<i>beta</i> -Chlordane, <i>gamma</i> -Chlordane) | 66 - 119 | 57 - 128 |
| <i>cis</i> -Chlordane (<i>alpha</i> -chlordane) | 62 - 119 | 53 - 129 |
| Hexachlorobenzene | 41 - 108 | 30 - 119 |
| Hexachlorobutadiene | 39 - 100 | 29 - 110 |
| MB / LCS Surrogate Recovery | | |
| Tetrachloro- <i>m</i> -xylene (TCMX) | 42 - 112 | (4) |
| Decachlorobiphenyl | 59 - 123 | (4) |
| Sample Surrogate Recovery | | |
| Tetrachloro-xylene (TCMX) | 29 - 142 | (4) |
| Decachlorobiphenyl | 22 - 156 | (4) |

(1) Control limits calculated using all available spike recovery data from 1/1/11 to 10/1/11.

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

(3) **ME** = A **marginal exceedance** defined in the NELAC Standard ⁽⁶⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(4) Marginal Exceedances not allowed for a surrogate standard.

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

(6) 2003 NELAC Standard (EPA/600/R-04/003), July 2003, Chapter 5, pages 251-252.



Quality Control Criteria for Analysis of Aqueous
and Tissue Samples for Aroclors
(Polychlorinated Biphenyls – PCB)
EPA Method 8082B

| Analysis Code | Extraction | DL ¹ | LOD ¹ | LOQ ¹ | Analyte | Spike Recovery Control Limits (%) ^{2,3} | | | RPD ⁴ |
|---|--------------------------------|-------------------------|------------------|------------------|--------------|--|------------------|------------------|------------------|
| | | | | | | LCS | MB/LCS Surrogate | Sample Surrogate | |
| Aqueous Samples (Separatory Funnel Extraction – EPA Method 3510C) | | | | | | | | | |
| PCBWSI 01-3018F | 500 to 5 mL | 0.130 µg/L | 0.5 µg/L | 1 µg/L | Aroclor 1016 | 45 – 121 | -- | -- | ≤ 40 |
| | | 0.147 µg/L | 0.5 µg/L | 1 µg/L | Aroclor 1260 | 54 – 129 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 40 – 118 | 38 – 118 | |
| | | -- | -- | -- | DCBP | -- | 41 – 111 | 29 – 118 | |
| PCBWSM 02-3021F | 500 to 1 mL | 0.0175 µg/L | 0.05 µg/L | 0.1 µg/L | Aroclor 1016 | 36 – 100 | -- | -- | ≤ 40 |
| | | 0.0174 µg/L | 0.05 µg/L | 0.1 µg/L | Aroclor 1260 | 41 – 113 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 29 – 100 | 25 – 100 | |
| | | -- | -- | -- | DCBP | -- | 39 – 116 | 10 – 128 | |
| PCBWLS | 1000 to 0.5 mL ⁵ | 0.00248 µg/L | 0.005 µg/L | 0.01 µg/L | Aroclor 1016 | 44 – 117 | -- | -- | ≤ 40 |
| | | 0.00276 µg/L | 0.005 µg/L | 0.01 µg/L | Aroclor 1260 | 46 – 131 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 31 – 100 | 21 – 100 | |
| | | -- | -- | -- | DCBP | -- | 32 – 108 | 19 – 111 | |
| TCLP Extract (Separatory Funnel Extraction – EPA Method 3510C) | | | | | | | | | |
| PCBWST | 100 to 10 mL | 0.130 µg/L ⁸ | 5 µg/L | 10 µg/L | Aroclor 1016 | 30 – 160 | -- | -- | ≤ 40 |
| | | 0.147 µg/L ⁸ | 5 µg/L | 10 µg/L | Aroclor 1260 | 30 – 160 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 30 – 160 | 30 – 160 | |
| | | -- | -- | -- | DCBP | -- | 30 – 160 | 30 – 160 | |
| Tissue Samples (Tissuemizer / Blender Extraction – EPA Method 3550C Modified) – Concentrations in µg/kg as received (wet weight) | | | | | | | | | |
| PCBUZI 09-3029F | 10 g to 5 mL | 2.92 µg/kg ⁶ | 25 µg/kg | 50 µg/kg | Aroclor 1016 | 30 – 160 | | | ≤ 40 |
| | | 3.91 µg/kg ⁶ | 25 µg/kg | 50 µg/kg | Aroclor 1260 | 30 – 160 | | | |
| | | -- | -- | -- | TCMX | | 30 – 160 | 30 – 160 | |
| | | -- | -- | -- | DCBP | | 30 – 160 | 30 – 160 | |
| PCBUZM 10-3027F | 25 g to 5 mL | 2.37 µg/kg ⁷ | 10 µg/kg | 20 µg/kg | Aroclor 1016 | 30 – 160 | | | ≤ 40 |
| | | 1.06 µg/kg ⁷ | 10 µg/kg | 20 µg/kg | Aroclor 1260 | 30 – 160 | | | |
| | | -- | -- | -- | TCMX | | 30 – 160 | 30 – 160 | |
| | | -- | -- | -- | DCBP | | 30 – 160 | 30 – 160 | |
| PCBUZL 11-3030F | 25 g to 1 mL | 2.37 ⁷ µg/kg | 2 µg/kg | 4 µg/kg | Aroclor 1016 | 30 – 160 | | | ≤ 40 |
| | | 1.06 ⁷ µg/kg | 2 µg/kg | 4 µg/kg | Aroclor 1260 | 30 – 160 | | | |
| | | -- | -- | -- | TCMX | | 30 – 160 | 30 – 160 | |
| | | -- | -- | -- | DCBP | | 30 – 160 | 30 – 160 | |

(1) Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) are defined in ARI SOP 1018S.
 (2) Highlighted control limits (**bold font**) are adjusted from the calculated values to reflect that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.
 (3) 30 – 160 are default limits used when there is insufficient data to calculate historic control limits
 (4) Acceptance criteria for the relative percent difference (RPD) between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(5) Low level extraction solvent is hexane instead of Methylene Chloride.
 (6) LOD Study SM10
 (7) MDL Study QZ25
 (8) Based on PCBWSI until sufficient TCLP data is collected to calculate LOD.



Quality Control Criteria for Analysis of Solid Matrix Samples for Aroclors (Polychlorinated Biphenyls – PCB) EPA Method 8082B

| Analysis Code | Extraction | DL ¹ (ppb) | LOD ¹ (ppb) | LOQ ¹ (ppb) | Analyte | Spike Recovery Control Limits (%) ^{2,3,8} | | | RPD ⁴ |
|---|-------------------------------|-----------------------|------------------------|------------------------|--------------|--|------------------|------------------|------------------|
| | | | | | | LCS | MB/LCS Surrogate | Sample Surrogate | |
| Soil / Sediment Samples (Microwave Extraction – EPA Method 3546) | | | | | | | | | |
| PCBSMI 15-3067F | 12g to 4 mL | 9.83 | 17 | 33 | Aroclor 1016 | 55 – 109 | -- | -- | ≤ 40 |
| | | 7.06 | 17 | 33 | Aroclor 1260 | 50 – 125 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 53 – 108 | 39 – 122 | |
| PCBSCI 08-3025F | | -- | -- | -- | DCBP | -- | 49 – 126 | 31 – 140 | |
| | | | | | | | | | |
| PCBDMP20 05-3017F | 12.5 g to 2.5 mL ⁶ | 9.33 | 10 | 20 ⁶ | Aroclor 1016 | 46 – 110 | -- | -- | ≤ 40 |
| | | 10.82 | 15 | 20 ⁶ | Aroclor 1260 | 47 – 124 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 43 – 107 | 34 – 109 | |
| PCBDMP20 06-3026F | | -- | -- | -- | DCBP | -- | 48 – 123 | 24 – 127 | |
| | | | | | | | | | |
| PCBDMP10 05-3017F | 12.5 g to 2.5 mL ⁶ | 0.759 | 5 | 10 ⁶ | Aroclor 1016 | 46 – 110 | -- | -- | ≤ 40 |
| | | 1.066 | 5 | 10 ⁶ | Aroclor 1260 | 47 – 124 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 43 – 107 | 34 – 109 | |
| PCBDMP10 06-3026F | | -- | -- | -- | DCBP | -- | 48 – 123 | 24 – 127 | |
| | | | | | | | | | |
| PCBDMP4 05-3017F | 12.5 g to 2.5 mL ⁶ | 0.577 | 2 | 4 ⁶ | Aroclor 1016 | 46 – 110 | -- | -- | ≤ 40 |
| | | 0.610 | 2 | 4 ⁶ | Aroclor 1260 | 47 – 124 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 43 – 107 | 34 – 109 | |
| PCBDMP4 06-3026F | | -- | -- | -- | DCBP | -- | 48 – 123 | 24 – 127 | |
| | | | | | | | | | |
| Soil / Sediment Samples Medium Level (Vortex Extraction – EPA Method 3546) | | | | | | | | | |
| PCBSVX 12-3019F | 5 g to 40 mL | 109 ⁷ | 400 | 800 | Aroclor 1016 | 30 – 160 | -- | -- | ≤ 40 |
| | | 192 ⁷ | 400 | 800 | Aroclor 1260 | 30 – 160 | -- | -- | |
| | | -- | -- | -- | TCMX | -- | 30 – 160 | 30 – 160 | |
| | | -- | -- | -- | DCBP | -- | 30 – 160 | 30 – 160 | |

(1) Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) are defined in ARI SOP 1018S.

(2) Highlighted control limits (**bold font**) are adjusted from the calculated values to reflect that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(3) 30 – 160 are default limits used when there is insufficient data to calculate historic control limits

(4) Acceptance criteria for the relative percent difference (RPD) between analytes in replicate analyzes. If C_o and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(6) LOQ determined by lowest concentration used to calibrate the GC-ECD instrument.

(7) MDL Study PC66 6/24/09

(8) Control Limits calculated using all data generated between 1/1/11 and 11/30/11



| Analysis Code | Analyte ⁵ | DL ¹ | LOD ¹ | LOQ ² ppm | Spike % Recovery Control Limits ³ | | | RPD ⁴ |
|--|--|---------------------|------------------|----------------------|--|------------------|------------------|------------------|
| | | | | | LCS | MB/LCS Surrogate | Sample Surrogate | |
| HCIWVX | NWTPH-HCID – Water Samples | -- | -- | 0.50 ⁷ | -- | -- | 50-150 | ≤ 40 |
| HCISVX | NWTPH-HCID – Solid Samples | -- | -- | 50 ⁷ | -- | -- | 50-150 | |
| Aqueous Samples – No Extract Clean-up – Separatory Funnel Extraction – 500 to 1.0 mL | | | | | | | | |
| DIESWI | DRO – NWTPH-Dext (C ₁₂ -C ₂₄) | 0.022 | 0.05 | 0.1 | 64-112 | 50-150 | 50-150 | ≤ 40 |
| AK2WSI | DRO – AK102 (C ₁₀ -C ₂₅) | 0.022 | 0.05 | 0.1 | 75-125 ⁶ | 60-120 | 50-150 | |
| OILWSI | RRO – NWTPH-Dext (C ₂₄ -C ₃₈) | 0.044 | 0.1 | 0.2 | 64-112 | 50-150 | 50-150 | |
| AK3WSI | RRO – AK103 (C ₂₅ -C ₃₆) | 0.030 ⁹ | 0.1 | 0.2 | 60-120 ⁶ | 60-120 | 50-150 | |
| Aqueous Samples – With Acid and/or Silica Gel Clean-up – Separatory Funnel Extraction – 500 to 1.0 mL | | | | | | | | |
| DIESWI | DRO – NWTPH-Dext (C ₁₂ -C ₂₄) | 0.039 | 0.05 | 0.1 | 61-104 | 50-150 | 50-150 | ≤ 40 |
| AK2WSI | DRO – AK102 (C ₁₀ -C ₂₅) | 0.042 | 0.05 | 0.1 | 75-125 ⁶ | 60-120 | 50-150 | |
| OILWSI | RRO – NWTPH-Dext (C ₂₄ -C ₃₈) | 0.010 | 0.1 | 0.2 | 61-104 | 50-150 | 50-150 | |
| AK3WSI | RRO – AK103 (C ₂₅ -C ₃₆) | 0.030 ⁸ | 0.1 | 0.2 | 60-120 ⁶ | 60-120 | 50-150 | |
| Solid Matrix Samples – No Extract Clean-up – Microwave Extraction – 10 g to 1 mL | | | | | | | | |
| DIESMI | DRO – NWTPH-Dext (C ₁₂ -C ₂₄) | 1.35 | 2.5 | 5 | 62-119 | 50-150 | 50-150 | ≤ 40 |
| DIESMI | DRO – NWTPH-Dext Jet A | 2.22 ¹¹ | 2.5 | 5 | 60 – 130 ⁸ | 50-150 | 50-150 | |
| AK2SMI | DRO – AK102 (C ₁₀ -C ₂₅) | 2.43 | 2.5 | 5 | 75-125 ⁶ | 60-120 | 50-150 | |
| OILSMI | RRO – NWTPH-Dext (C ₂₄ -C ₃₈) | 2.48 | 5 | 10 | 62-119 | 50-150 | 50-150 | |
| AK3SMI | RRO – AK103 (C ₂₅ -C ₃₆) | 0.665 ⁹ | 5 | 10 | 60-120 ⁶ | 60-120 | 50-150 | |
| Solid Matrix Samples – With Acid and/or Silica Gel Clean-up – Microwave Extraction – 10 g to 1 mL | | | | | | | | |
| DIESMI | DRO – NWTPH-Dext (C ₁₂ -C ₂₄) | 1.28 | 2.5 | 5 | 60-108 | 50-150 | 50-150 | ≤ 40 |
| AK2SMI | DRO – AK102 (C ₁₀ -C ₂₅) | 2.06 | 2.5 | 5 | 75-125 ⁶ | 60-120 | 50-150 | |
| OILSMI | RRO – NWTPH-Dext (C ₂₄ -C ₃₈) | 1.57 | 5 | 10 | 60-108 | 50-150 | 50-150 | |
| AK3SMI | RRO – AK103 (C ₂₅ -C ₃₆) | 0.665 ¹⁰ | 5 | 10 | 60-120 ⁶ | 60-120 | 50-150 | |

- (1) DL (Detection Limit) and LOD (Limit of Detection) as defined in ARI SOP 1018S.
 (2) Limit of Quantitation as defined in ARI SOP 1018S. The spike concentration used to determine the DL and the concentration of the lowest standard used to calibrate the GC-FID instrument.
 (3) All surrogate recovery limits are specified in the published methods (AK102, AK103 & NWTPH-Dext). The surrogate standard is *o*-Terphenyl.
 (4) Acceptance criteria for the relative percent difference (RPD) between analytes in replicate analyzes. If C_o and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

- (5) DRO = Diesel Range Organics and RRO = Residual Range Organics as defined in the methods referenced in footnote 3.
 (6) Method specified LCS acceptance limits.
 (7) Method specified reporting limits
 (8) Default LCS control limits pending calculation of historic limits
 (9) MDL study QD55 completed 2/12/10
 (10) MDL study QD35 completed 1/29/10
 (11) LOD Study UI44 completed 2/28/12



Quality Control Parameters for Metals Analysis using ICP-OES

| Analyte | Aqueous Samples ² | | | Spike Recovery | | RPD ⁵ | Solids ³ | Tissue ⁴ |
|------------|------------------------------|--------------------------|--------------------------|----------------|----------|------------------|---------------------|---------------------|
| | DL ¹ µg/L | LOD ¹ µg/L | LOQ ¹ µg/L | Matrix Spike | LCS | | LOQ mg/kg | LOQ mg/kg |
| Aluminum | 7.57 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Antimony | 6.28 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Arsenic | 3.33 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Barium | 1.33 | 1.5 | 3.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.3 | 0.06 |
| Beryllium | 0.16 | 0.5 | 1.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 | 0.02 |
| Boron | 7.39 | 10 | 20 | 75 – 125 | 80 – 120 | ≤ 20 | 2.0 | 0.4 |
| Cadmium | 0.18 | 0.5 | 2.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 | 0.04 |
| Calcium | 11.27 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Chromium | 1.24 | 2.5 | 5.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 | 0.1 |
| Cobalt | 0.27 | 1.5 | 3.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.3 | 0.06 |
| Copper | 0.92 | 1.0 | 2.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 | 0.04 |
| Iron | 7.50 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Lead | 1.55 | 10 | 20 | 75 – 125 | 80 – 120 | ≤ 20 | 2.0 | 0.4 |
| Magnesium | 9.61 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Manganese | 0.28 | 0.5 | 1.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 | 0.02 |
| Molybdenum | 0.79 | 2.5 | 5.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 | 0.1 |
| Nickel | 3.86 | 5.0 | 10 | 75 – 125 | 80 – 120 | ≤ 20 | 1.0 | 0.2 |
| Potassium | 65.70 | 250 | 500 | 75 – 125 | 80 – 120 | ≤ 20 | 50 | 10 |
| Selenium | 4.99 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Silicon | 8.17 | 30 | 60 | 75 – 125 | 80 – 120 | ≤ 20 | (6) | (6) |
| Silver | 0.43 | 1.5 | 3.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.3 | 0.06 |
| Sodium | 11.35 | 250 | 500 | 75 – 125 | 80 – 120 | ≤ 20 | 50 | 10 |
| Strontium | 0.09 | 1.0 | 1.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 | 0.02 |
| Thallium | 3.10 | 25 | 50 | 75 – 125 | 80 – 120 | ≤ 20 | 5.0 | 1.0 |
| Tin | 1.41 | 5.0 | 10 | 75 – 125 | 80 – 120 | ≤ 20 | 1.0 | 0.2 |
| Titanium | 2.11 | 2.5 | 5.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 | 0.01 |
| Vanadium | 0.27 | 1.5 | 3.0 | 75 – 125 | 80 – 120 | ≤ 20 | 0.3 | 0.06 |
| Zinc | 1.45 | 5.0 | 10 | 75 – 125 | 80 – 120 | ≤ 20 | 1.0 | 0.2 |

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 50 mL sample and 50 mL final volume

(3) Solids LOQ based on 100% solids using 1.0 g sample with 100 mL final volume.

(4) Tissue is reported on an "as received" (wet weight) basis using 2.5 g sample with 50 mL final volume.

(5) Relative Percent Difference between analytes in replicate analyzes. If C_o and C_d are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_d|}{\frac{C_o + C_d}{2}} \times 100$$

(6) ARI does not analyze for Silicon in solids or tissue samples



| Quality Control Parameters for Metals Analysis using ICP-MS | | | | | | | | |
|---|------|------------------------------|--------------------------|--------------------------|----------------|----------|------------------|---------------------------|
| Analyte | Mass | Aqueous Samples ² | | | Spike Recovery | | RPD ⁴ | Solids ³ |
| | | DL ¹ µg/L | LOD ¹ µg/L | LOQ ¹ µg/L | Matrix Spike | LCS | | LOQ ¹ mg/kg |
| Aluminum | 27 | 1.601 | 10 | 20.0 | 75 – 125 | 80 – 120 | ≤ 20 | 20.0 |
| Antimony | 121 | 0.010 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| | 123 | 0.011 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Arsenic #1 | 75 | 0.048 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Arsenic #2 | 75 | 0.092 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Barium | 135 | 0.020 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| | 137 | 0.019 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Beryllium | 9 | 0.021 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Cadmium | 111 | 0.010 | 0.05 | 0.1 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 |
| | 114 | 0.005 | 0.05 | 0.1 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 |
| Calcium | 43 | 3.983 | 25 | 50.0 | 75 – 125 | 80 – 120 | ≤ 20 | 50.0 |
| Chromium | 52 | 0.045 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| | 53 | 0.118 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Cobalt | 59 | 0.011 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Copper | 63 | 0.158 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| | 65 | 0.236 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Iron | 54 | 5.753 | 10 | 20.0 | 75 – 125 | 80 – 120 | ≤ 20 | 20.0 |
| | 57 | 3.876 | 10 | 20.0 | 75 – 125 | 80 – 120 | ≤ 20 | 20.0 |
| Lead | 208 | 0.046 | 0.05 | 0.1 | 75 – 125 | 80 – 120 | ≤ 20 | 0.1 |
| Magnesium | 24 | 0.297 | 10 | 20.0 | 75 – 125 | 80 – 120 | ≤ 20 | 20.0 |
| Manganese | 55 | 0.022 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Molybdenum | 98 | 0.013 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Nickel | 60 | 0.079 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| | 62 | 0.089 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| Potassium | 39 | 2.944 | 10 | 20.0 | 75 – 125 | 80 – 120 | ≤ 20 | 20.0 |
| Selenium | 82 | 0.127 | 0.25 | 0.5 | 75 – 125 | 80 – 120 | ≤ 20 | 0.5 |
| | 78 | 0.324 | 0.25 | 2.0 | 75 – 125 | 80 – 120 | ≤ 20 | 2.0 |
| Silver | 107 | 0.008 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Sodium | 23 | 2.833 | 50 | 100.0 | 75 – 125 | 80 – 120 | ≤ 20 | 100.0 |
| Thorium ⁵ | 232 | 0.013 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Thallium | 205 | 0.004 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Uranium ⁵ | 238 | 0.003 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Vanadium | 51 | 0.043 | 0.1 | 0.2 | 75 – 125 | 80 – 120 | ≤ 20 | 0.2 |
| Zinc | 66 | 0.497 | 2 | 4.0 | 75 – 125 | 80 – 120 | ≤ 20 | 4.0 |
| | 67 | 0.531 | 2 | 4.0 | 75 – 125 | 80 – 120 | ≤ 20 | 4.0 |
| | 68 | 0.524 | 2 | 4.0 | 75 – 125 | 80 – 120 | ≤ 20 | 4.0 |

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 50 mL sample and 50 mL final volume

(3) Solids LOQ based on 100% solids using 1.0 g sample with 100 mL final volume.

(4) Relative Percent Difference between analytes in replicate analyzes. If C_O and C_D are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_D|}{\frac{C_o + C_D}{2}} \times 100$$

(5) ARI has no accreditation for these elements.



| Quality Control Parameters for Mercury Analysis using CVAA | | | | | | |
|---|---|----------------------------------|----------------------------------|-----------------------|------------|------------------------|
| | Aqueous Samples² | | | Spike Recovery | | RPD⁵ |
| | DL¹ µg/L | LOD¹ µg/L | LOQ¹ µg/L | Matrix Spike | LCS | |
| Mercury | 0.0069 | 0.05 | 0.10² | 75 – 125 | 80 – 120 | ≤ 20 |
| Mercury (low level) | 0.0026 | 0.01 | 0.02³ | 75 – 125 | 80 – 120 | ≤ 20 |
| | Soil / Sediment / Tissue⁴ Samples | | | Spike Recovery | | RPD⁵ |
| | DL¹ mg/kg | LOD¹ mg/kg | LOQ¹ mg/kg | Matrix Spike | LCS | |
| Mercury | 0.0021 | 0.0125 | 0.025^{3,4} | 75 – 125 | 80 – 120 | ≤ 20 |

(1) Detection Limit (DL), Limit of Detection Limit (LOD) and Limit of Quantitation (LOQ) as defined in ARI SOP 1018S

(2) 20 mL sample with 20 mL final volume

(3) 0.2 g sample with 50 mL final volume assuming 100% dry weight. Soil and sediment are reported on a dry weight basis.

(4) Tissue LOQ is 0.005 mg/kg as received (wet weight) based on 1 g sample with 50 mL final volume.

(5) Relative Percent Difference between analytes in replicate analyzes. If C_o and C_d are the concentrations of the original and duplicate respectively then

$$RPD = \frac{|C_o - C_d|}{\frac{C_o + C_d}{2}} \times 100$$



| Spike Recovery Control Limits for Conventional Wet Chemistry | | |
|---|-----------------------------|-----------------|
| Effective 5/1/09 | | |
| Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip | | |
| | ARI's Control Limits | |
| Sample Matrix: | Water | Soil / Sediment |
| Matrix Spike Recoveries | % Recovery | % Recovery |
| Ammonia | 75 - 125 | 75 - 125 |
| Bromide | 75 - 125 | 75 - 125 |
| Chloride | 75 - 125 | 75 - 125 |
| Cyanide | 75 - 125 | 75 - 125 |
| Ferrous Iron | 75 - 125 | 75 - 125 |
| Fluoride | 75 - 125 | 75 - 125 |
| Formaldehyde | 75 - 125 | 75 - 125 |
| Hexane Extractable Material | -- - -- | 78 - 114 |
| Hexavalent Chromium | 75 - 125 | 75 - 125 |
| Nitrate/Nitrite | 75 - 125 | 75 - 125 |
| Oil and Grease | 75 - 125 | 75 - 125 |
| Phenol | 75 - 125 | 75 - 125 |
| Phosphorous | 75 - 125 | 75 - 125 |
| Sulfate | 75 - 125 | 75 - 125 |
| Sulfide | 75 - 125 | 75 - 125 |
| Total Kjeldahl Nitrogen | 75 - 125 | 75 - 125 |
| Total Organic Carbon | 75 - 125 | 75 - 125 |
| Duplicate RPDs | | |
| Acidity | ±20% | ±20% |
| Alkalinity | ±20% | ±20% |
| BOD | ±20% | ±20% |
| Cation Exchange | ±20% | ±20% |
| COD | ±20% | ±20% |
| Conductivity | ±20% | ±20% |
| Salinity | ±20% | ±20% |
| Solids | ±20% | ±20% |
| Turbidity | ±20% | ±20% |

**Semivolatile Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS001-SS-120515
SAMPLE

Lab Sample ID: UU52A
 LIMS ID: 12-8893
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 17:11
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.3%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 300 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 1,200 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 390 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 1,100 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 170 |
| 131-11-3 | Dimethylphthalate | 8.6 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 74 |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 110 |
| 132-64-9 | Dibenzofuran | 12 | 60 | 180 |
| 86-73-7 | Fluorene | 13 | 60 | 120 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 690 |
| 86-74-8 | Carbazole | 8.0 | 60 | 42 J |
| 120-12-7 | Anthracene | 13 | 60 | 140 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 660 |
| 129-00-0 | Pyrene | 5.8 | 60 | 580 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 160 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 140 |
| 218-01-9 | Chrysene | 11 | 60 | 430 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 260 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 200 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 57 J |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 270 |
| 483-65-8 | Retene | 60 | 60 | 74 |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 570 |


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 63.0% | 2-Fluorobiphenyl | 69.6% |
| d14-p-Terphenyl | 73.8% | d4-1,2-Dichlorobenzene | 61.2% |
| d5-Phenol | 68.4% | 2-Fluorophenol | 66.0% |
| 2,4,6-Tribromophenol | 74.0% | d4-2-Chlorophenol | 67.6% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS101-SS-120515
SAMPLE

Lab Sample ID: UU52B
 LIMS ID: 12-8894
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 17:48
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 400 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 1,600 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 640 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 1,800 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 270 |
| 131-11-3 | Dimethylphthalate | 8.6 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 130 |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 160 |
| 132-64-9 | Dibenzofuran | 12 | 60 | 280 |
| 86-73-7 | Fluorene | 13 | 60 | 170 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | 160 J |
| 85-01-8 | Phenanthrene | 11 | 60 | 1,200 |
| 86-74-8 | Carbazole | 8.0 | 60 | 57 J |
| 120-12-7 | Anthracene | 13 | 60 | 180 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 970 |
| 129-00-0 | Pyrene | 5.8 | 60 | 910 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 170 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 120 |
| 218-01-9 | Chrysene | 11 | 60 | 400 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 270 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 230 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 54 J |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 330 |
| 483-65-8 | Retene | 60 | 60 | 100 |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 640 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 59.4% | 2-Fluorobiphenyl | 65.4% |
| d14-p-Terphenyl | 69.0% | d4-1,2-Dichlorobenzene | 57.0% |
| d5-Phenol | 65.2% | 2-Fluorophenol | 62.4% |
| 2,4,6-Tribromophenol | 70.4% | d4-2-Chlorophenol | 64.4% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS002-SS-120515
SAMPLE

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 18:25
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 59 | 260 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 1,400 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 420 J |
| 91-20-3 | Naphthalene | 8.2 | 59 | 1,300 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 59 | 240 |
| 131-11-3 | Dimethylphthalate | 8.6 | 59 | < 59 U |
| 208-96-8 | Acenaphthylene | 17 | 59 | 86 |
| 83-32-9 | Acenaphthene | 9.7 | 59 | 140 |
| 132-64-9 | Dibenzofuran | 12 | 59 | 240 |
| 86-73-7 | Fluorene | 13 | 59 | 160 |
| 87-86-5 | Pentachlorophenol | 140 | 590 | < 590 U |
| 85-01-8 | Phenanthrene | 11 | 59 | 830 |
| 86-74-8 | Carbazole | 8.0 | 59 | 56 J |
| 120-12-7 | Anthracene | 13 | 59 | 170 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 59 | < 59 U |
| 206-44-0 | Fluoranthene | 8.6 | 59 | 860 |
| 129-00-0 | Pyrene | 5.8 | 59 | 860 |
| 85-68-7 | Butylbenzylphthalate | 18 | 59 | < 59 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 59 | 280 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 150 |
| 218-01-9 | Chrysene | 11 | 59 | 800 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 59 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 59 | 470 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 59 | 340 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 59 | 100 |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 59 | 430 |
| 483-65-8 | Retene | 59 | 59 | 80 |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 59 | 1,000 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 63.6% | 2-Fluorobiphenyl | 69.6% |
| d14-p-Terphenyl | 73.2% | d4-1,2-Dichlorobenzene | 60.0% |
| d5-Phenol | 69.6% | 2-Fluorophenol | 64.4% |
| 2,4,6-Tribromophenol | 74.4% | d4-2-Chlorophenol | 66.8% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS003-SS-120515
SAMPLE

Lab Sample ID: UU52D
 LIMS ID: 12-8896
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 19:02
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.7%

| CAS Number | Analyte | MDL | RL | Result |
|------------|-----------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 180 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 1,100 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 330 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 550 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 86 |
| 131-11-3 | Dimethylphthalate | 8.6 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 60 |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 72 |
| 132-64-9 | Dibenzofuran | 12 | 60 | 110 |
| 86-73-7 | Fluorene | 13 | 60 | 74 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 500 |
| 86-74-8 | Carbazole | 8.0 | 60 | < 60 U |
| 120-12-7 | Anthracene | 13 | 60 | 120 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 550 |
| 129-00-0 | Pyrene | 5.8 | 60 | 510 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 130 |
| 117-81-7 | bis (2-Ethylhexyl)phthalate | 43 | 74 | 120 |
| 218-01-9 | Chrysene | 11 | 60 | 390 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 250 |
| 193-39-5 | Indeno (1,2,3-cd)pyrene | 14 | 60 | 180 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 51 J |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 230 |
| 483-65-8 | Retene | 60 | 60 | 32 J |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 580 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 57.6% | 2-Fluorobiphenyl | 64.2% |
| d14-p-Terphenyl | 66.6% | d4-1,2-Dichlorobenzene | 55.8% |
| d5-Phenol | 63.2% | 2-Fluorophenol | 58.4% |
| 2,4,6-Tribromophenol | 70.4% | d4-2-Chlorophenol | 62.0% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS004-SS-120515
SAMPLE

Lab Sample ID: UU52E
 LIMS ID: 12-8897
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 19:39
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.4%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 200 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 690 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 390 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 1,400 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 270 |
| 131-11-3 | Dimethylphthalate | 8.7 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 78 |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 140 |
| 132-64-9 | Dibenzofuran | 12 | 60 | 300 |
| 86-73-7 | Fluorene | 13 | 60 | 170 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 890 |
| 86-74-8 | Carbazole | 8.0 | 60 | 69 |
| 120-12-7 | Anthracene | 13 | 60 | 180 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 870 |
| 129-00-0 | Pyrene | 5.8 | 60 | 790 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 240 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 44 | 75 | 120 |
| 218-01-9 | Chrysene | 11 | 60 | 680 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 18 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 380 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 280 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 87 |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 360 |
| 483-65-8 | Retene | 60 | 60 | 120 |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 970 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 61.8% | 2-Fluorobiphenyl | 69.0% |
| d14-p-Terphenyl | 70.2% | d4-1,2-Dichlorobenzene | 58.2% |
| d5-Phenol | 64.0% | 2-Fluorophenol | 62.8% |
| 2,4,6-Tribromophenol | 71.6% | d4-2-Chlorophenol | 65.6% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS005-SS-120515
SAMPLE

Lab Sample ID: UU52F
 LIMS ID: 12-8898
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 20:16
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 91.1%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 59 | 1,100 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 3,300 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 3,100 |
| 91-20-3 | Naphthalene | 8.2 | 59 | 4,400 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 59 | 600 |
| 131-11-3 | Dimethylphthalate | 8.6 | 59 | < 59 U |
| 208-96-8 | Acenaphthylene | 17 | 59 | 250 |
| 83-32-9 | Acenaphthene | 9.7 | 59 | 820 |
| 132-64-9 | Dibenzofuran | 12 | 59 | 660 |
| 86-73-7 | Fluorene | 13 | 59 | 450 |
| 87-86-5 | Pentachlorophenol | 140 | 590 | < 590 U |
| 85-01-8 | Phenanthrene | 11 | 59 | 1,800 |
| 86-74-8 | Carbazole | 8.0 | 59 | 130 |
| 120-12-7 | Anthracene | 13 | 59 | 350 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 59 | < 59 U |
| 206-44-0 | Fluoranthene | 8.6 | 59 | 1,900 |
| 129-00-0 | Pyrene | 5.7 | 59 | 1,600 |
| 85-68-7 | Butylbenzylphthalate | 18 | 59 | < 59 U |
| 56-55-3 | Benzo (a) anthracene | 9.7 | 59 | 300 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 170 |
| 218-01-9 | Chrysene | 11 | 59 | 570 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 59 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 59 | 330 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 59 | 240 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 59 | 95 |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 59 | 320 |
| 483-65-8 | Retene | 59 | 59 | 140 |
| TOTBFA | Total Benzofluoranthenes | 8.1 | 59 | 970 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 63.6% | 2-Fluorobiphenyl | 68.4% |
| d14-p-Terphenyl | 70.2% | d4-1,2-Dichlorobenzene | 60.0% |
| d5-Phenol | 82.4% | 2-Fluorophenol | 70.8% |
| 2,4,6-Tribromophenol | 76.4% | d4-2-Chlorophenol | 67.6% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS006-SS-120515
SAMPLE

Lab Sample ID: UU52G
 LIMS ID: 12-8899
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 20:54
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 380 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 270 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 3,100 |
| 91-20-3 | Naphthalene | 8.2 | 60 | 6,200 E |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 600 |
| 131-11-3 | Dimethylphthalate | 8.6 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 220 |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 110 |
| 132-64-9 | Dibenzofuran | 12 | 60 | 480 |
| 86-73-7 | Fluorene | 13 | 60 | 130 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 2,200 |
| 86-74-8 | Carbazole | 8.0 | 60 | 95 |
| 120-12-7 | Anthracene | 13 | 60 | 220 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 1,700 |
| 129-00-0 | Pyrene | 5.8 | 60 | 1,400 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 230 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 120 |
| 218-01-9 | Chrysene | 11 | 60 | 410 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 250 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 220 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 54 J |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 310 |
| 483-65-8 | Retene | 60 | 60 | 270 |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 650 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 67.2% | 2-Fluorobiphenyl | 71.4% |
| d14-p-Terphenyl | 74.4% | d4-1,2-Dichlorobenzene | 64.8% |
| d5-Phenol | 67.2% | 2-Fluorophenol | 63.2% |
| 2,4,6-Tribromophenol | 87.6% | d4-2-Chlorophenol | 69.2% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
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Sample ID: MS006-SS-120515
DILUTION

Lab Sample ID: UU52G
 LIMS ID: 12-8899
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/08/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/30/12 13:04
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 6.00
 Percent Moisture: 90.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|-----------|
| 108-95-2 | Phenol | 51 | 120 | 490 |
| 106-44-5 | 4-Methylphenol | 39 | 240 | 280 |
| 65-85-0 | Benzoic Acid | 600 | 2,400 | 5,200 Q |
| 91-20-3 | Naphthalene | 16 | 120 | 6,300 |
| 91-57-6 | 2-Methylnaphthalene | 18 | 120 | 580 |
| 131-11-3 | Dimethylphthalate | 17 | 120 | < 120 U |
| 208-96-8 | Acenaphthylene | 34 | 120 | 210 |
| 83-32-9 | Acenaphthene | 20 | 120 | 89 J |
| 132-64-9 | Dibenzofuran | 24 | 120 | 540 |
| 86-73-7 | Fluorene | 26 | 120 | 130 |
| 87-86-5 | Pentachlorophenol | 290 | 1,200 | < 1,200 U |
| 85-01-8 | Phenanthrene | 22 | 120 | 2,200 |
| 86-74-8 | Carbazole | 16 | 120 | 110 J |
| 120-12-7 | Anthracene | 27 | 120 | 200 |
| 84-74-2 | Di-n-Butylphthalate | 49 | 120 | < 120 U |
| 206-44-0 | Fluoranthene | 17 | 120 | 1,800 |
| 129-00-0 | Pyrene | 12 | 120 | 1,300 |
| 85-68-7 | Butylbenzylphthalate | 37 | 120 | < 120 U |
| 56-55-3 | Benzo (a) anthracene | 20 | 120 | 210 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 87 | 150 | 130 J |
| 218-01-9 | Chrysene | 22 | 120 | 400 |
| 117-84-0 | Di-n-Octyl phthalate | 35 | 120 | < 35 UJ |
| 50-32-8 | Benzo (a) pyrene | 32 | 120 | 240 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 28 | 120 | 260 |
| 53-70-3 | Dibenz (a,h) anthracene | 26 | 120 | 65 J |
| 191-24-2 | Benzo (g,h,i) perylene | 26 | 120 | 380 |
| 483-65-8 | Retene | 120 | 120 | 270 |
| TOTBFA | Total Benzofluoranthenes | 16 | 120 | 640 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 68.4% | 2-Fluorobiphenyl | 72.0% |
| d14-p-Terphenyl | 73.2% | d4-1,2-Dichlorobenzene | 64.8% |
| d5-Phenol | 69.6% | 2-Fluorophenol | 66.4% |
| 2,4,6-Tribromophenol | 78.4% | d4-2-Chlorophenol | 70.4% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
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Sample ID: MS007-SS-120515
SAMPLE

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 21:31
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 25 | 59 | 430 |
| 106-44-5 | 4-Methylphenol | 19 | 120 | 1,800 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 1,300 |
| 91-20-3 | Naphthalene | 8.1 | 59 | 2,200 |
| 91-57-6 | 2-Methylnaphthalene | 9.0 | 59 | 290 |
| 131-11-3 | Dimethylphthalate | 8.5 | 59 | < 59 U |
| 208-96-8 | Acenaphthylene | 17 | 59 | 140 |
| 83-32-9 | Acenaphthene | 9.6 | 59 | 130 |
| 132-64-9 | Dibenzofuran | 12 | 59 | 210 |
| 86-73-7 | Fluorene | 13 | 59 | 120 |
| 87-86-5 | Pentachlorophenol | 140 | 590 | < 590 U |
| 85-01-8 | Phenanthrene | 11 | 59 | 1,100 |
| 86-74-8 | Carbazole | 7.9 | 59 | 62 |
| 120-12-7 | Anthracene | 13 | 59 | 170 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 59 | < 59 U |
| 206-44-0 | Fluoranthene | 8.6 | 59 | 1,100 |
| 129-00-0 | Pyrene | 5.7 | 59 | 960 |
| 85-68-7 | Butylbenzylphthalate | 18 | 59 | < 59 U |
| 56-55-3 | Benzo (a) anthracene | 9.7 | 59 | 180 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 43 | 74 | 120 |
| 218-01-9 | Chrysene | 11 | 59 | 290 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 59 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 59 | 270 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 59 | 190 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 59 | 59 |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 59 | 250 |
| 483-65-8 | Retene | 59 | 59 | 85 |
| TOTBFA | Total Benzofluoranthenes | 8.1 | 59 | 540 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 63.6% | 2-Fluorobiphenyl | 67.8% |
| d14-p-Terphenyl | 70.8% | d4-1,2-Dichlorobenzene | 62.4% |
| d5-Phenol | 65.6% | 2-Fluorophenol | 62.4% |
| 2,4,6-Tribromophenol | 74.4% | d4-2-Chlorophenol | 68.0% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
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Sample ID: MS008-SS-120515
SAMPLE

Lab Sample ID: UU52I
 LIMS ID: 12-8901
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/29/12 12:56
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 89.0%

| CAS Number | Analyte | MDL | RL | Result |
|------------|------------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 190 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 610 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 740 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 460 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 66 |
| 131-11-3 | Dimethylphthalate | 8.7 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | 39 J |
| 83-32-9 | Acenaphthene | 9.8 | 60 | 57 J |
| 132-64-9 | Dibenzofuran | 12 | 60 | 69 |
| 86-73-7 | Fluorene | 13 | 60 | 66 |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 480 |
| 86-74-8 | Carbazole | 8.0 | 60 | 63 |
| 120-12-7 | Anthracene | 13 | 60 | 110 |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 600 |
| 129-00-0 | Pyrene | 5.8 | 60 | 460 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 190 |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 44 | 75 | 98 |
| 218-01-9 | Chrysene | 11 | 60 | 240 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 220 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 140 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | 54 J |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 170 |
| 483-65-8 | Retene | 60 | 60 | < 60 U |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 420 |


Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 51.0% | 2-Fluorobiphenyl | 59.4% |
| d14-p-Terphenyl | 61.8% | d4-1,2-Dichlorobenzene | 51.0% |
| d5-Phenol | 53.6% | 2-Fluorophenol | 53.2% |
| 2,4,6-Tribromophenol | 65.2% | d4-2-Chlorophenol | 56.4% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
SAMPLE

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/29/12 13:33
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|-----------------------------|-----|-------|---------|
| 108-95-2 | Phenol | 26 | 60 | 100 |
| 106-44-5 | 4-Methylphenol | 20 | 120 | 470 |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | 410 J |
| 91-20-3 | Naphthalene | 8.2 | 60 | 290 |
| 91-57-6 | 2-Methylnaphthalene | 9.1 | 60 | 36 J |
| 131-11-3 | Dimethylphthalate | 8.6 | 60 | < 60 U |
| 208-96-8 | Acenaphthylene | 17 | 60 | < 60 U |
| 83-32-9 | Acenaphthene | 9.8 | 60 | < 60 U |
| 132-64-9 | Dibenzofuran | 12 | 60 | 54 J |
| 86-73-7 | Fluorene | 13 | 60 | 42 J |
| 87-86-5 | Pentachlorophenol | 140 | 600 | < 600 U |
| 85-01-8 | Phenanthrene | 11 | 60 | 250 |
| 86-74-8 | Carbazole | 8.0 | 60 | < 60 U |
| 120-12-7 | Anthracene | 13 | 60 | 51 J |
| 84-74-2 | Di-n-Butylphthalate | 24 | 60 | < 60 U |
| 206-44-0 | Fluoranthene | 8.7 | 60 | 290 |
| 129-00-0 | Pyrene | 5.8 | 60 | 240 |
| 85-68-7 | Butylbenzylphthalate | 18 | 60 | < 60 U |
| 56-55-3 | Benzo (a) anthracene | 9.8 | 60 | 57 J |
| 117-81-7 | bis (2-Ethylhexyl)phthalate | 44 | 75 | 90 |
| 218-01-9 | Chrysene | 11 | 60 | 120 |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 60 | < 17 UJ |
| 50-32-8 | Benzo (a) pyrene | 16 | 60 | 80 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 14 | 60 | 63 |
| 53-70-3 | Dibenz (a,h) anthracene | 13 | 60 | < 60 U |
| 191-24-2 | Benzo (g,h,i) perylene | 13 | 60 | 80 |
| 483-65-8 | Retene | 60 | 60 | < 60 U |
| TOTBFA | Total Benzofluoranthenes | 8.2 | 60 | 180 |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 61.2% | 2-Fluorobiphenyl | 67.8% |
| d14-p-Terphenyl | 70.2% | d4-1,2-Dichlorobenzene | 61.2% |
| d5-Phenol | 63.6% | 2-Fluorophenol | 62.8% |
| 2,4,6-Tribromophenol | 72.4% | d4-2-Chlorophenol | 67.6% |

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| Client ID | NBZ | FBP | TPH | DCB | PHL | 2FP | TBP | 2CP | TOT | OUT |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| MS001-SS-120515 | 63.0% | 69.6% | 73.8% | 61.2% | 68.4% | 66.0% | 74.0% | 67.6% | 0 | |
| MS101-SS-120515 | 59.4% | 65.4% | 69.0% | 57.0% | 65.2% | 62.4% | 70.4% | 64.4% | 0 | |
| MS002-SS-120515 | 63.6% | 69.6% | 73.2% | 60.0% | 69.6% | 64.4% | 74.4% | 66.8% | 0 | |
| MS003-SS-120515 | 57.6% | 64.2% | 66.6% | 55.8% | 63.2% | 58.4% | 70.4% | 62.0% | 0 | |
| MS004-SS-120515 | 61.8% | 69.0% | 70.2% | 58.2% | 64.0% | 62.8% | 71.6% | 65.6% | 0 | |
| MS005-SS-120515 | 63.6% | 68.4% | 70.2% | 60.0% | 82.4% | 70.8% | 76.4% | 67.6% | 0 | |
| MS006-SS-120515 | 67.2% | 71.4% | 74.4% | 64.8% | 67.2% | 63.2% | 87.6% | 69.2% | 0 | |
| MS006-SS-120515 DL | 68.4% | 72.0% | 73.2% | 64.8% | 69.6% | 66.4% | 78.4% | 70.4% | 0 | |
| MB-052212 | 56.2% | 55.8% | 66.4% | 55.4% | 55.1% | 53.3% | 55.1% | 56.0% | 0 | |
| LCS-052212 | 72.6% | 73.0% | 83.2% | 72.2% | 76.8% | 74.1% | 82.8% | 75.6% | 0 | |
| MS007-SS-120515 | 63.6% | 67.8% | 70.8% | 62.4% | 65.6% | 62.4% | 74.4% | 68.0% | 0 | |
| MS007-SS-120515 MS | 58.8% | 64.2% | 65.4% | 58.2% | 60.0% | 59.6% | 70.4% | 62.8% | 0 | |
| MS007-SS-120515 MSD | 64.8% | 69.6% | 73.2% | 61.2% | 65.6% | 64.0% | 76.0% | 66.0% | 0 | |
| MS008-SS-120515 | 51.0% | 59.4% | 61.8% | 51.0% | 53.6% | 53.2% | 65.2% | 56.4% | 0 | |
| MS009-SS-120515 | 61.2% | 67.8% | 70.2% | 61.2% | 63.6% | 62.8% | 72.4% | 67.6% | 0 | |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------------|---------------|-----------|
| (NBZ) = d5-Nitrobenzene | (30-160) | (30-160) |
| (FBP) = 2-Fluorobiphenyl | (30-160) | (30-160) |
| (TPH) = d14-p-Terphenyl | (30-160) | (30-160) |
| (DCB) = d4-1,2-Dichlorobenzene | (30-160) | (30-160) |
| (PHL) = d5-Phenol | (30-160) | (30-160) |
| (2FP) = 2-Fluorophenol | (30-160) | (30-160) |
| (TBP) = 2,4,6-Tribromophenol | (30-160) | (30-160) |
| (2CP) = d4-2-Chlorophenol | (30-160) | (30-160) |

Prep Method: SW3546
Log Number Range: 12-8893 to 12-8902

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: MS007-SS-120515
MS/MSD

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted MS/MSD: 05/22/12

Sample Amount MS: 10.2 g-dry-wt
 MSD: 10.2 g-dry-wt

Date Analyzed MS: 05/29/12 11:41
 MSD: 05/29/12 12:19

Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL

Instrument/Analyst MS: NT10/YZ
 MSD: NT10/YZ

Dilution Factor MS: 3.00
 MSD: 3.00

GPC Cleanup: Yes

Percent Moisture: 83.9 %

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|----------------------------|-----------|------|----------------|-------------|------|-----------------|--------------|-------|
| Phenol | 432 | 564 | 492 | 26.8% | 546 | 492 | 23.2% | 3.2% |
| 4-Methylphenol | 1770 | 1850 | 984 | 8.1% | 1740 | 983 | NA | 6.1% |
| Benzoic Acid | 1280 | 2900 | 2710 | 59.8% | 2550 | 2700 | 47.0% | 12.8% |
| Naphthalene | 2230 | 1930 | 492 | NA | 1470 | 492 | NA | 27.1% |
| 2-Methylnaphthalene | 291 | 529 | 492 | 48.4% | 531 | 492 | 48.8% | 0.4% |
| Dimethylphthalate | < 58.8 U | 337 | 492 | 68.5% | 375 | 492 | 76.2% | 10.7% |
| Acenaphthylene | 141 | 446 | 492 | 62.0% | 460 | 492 | 64.8% | 3.1% |
| Acenaphthene | 126 | 458 | 492 | 67.5% | 475 | 492 | 70.9% | 3.6% |
| Dibenzofuran | 209 | 517 | 492 | 62.6% | 537 | 492 | 66.7% | 3.8% |
| Fluorene | 120 | 481 | 492 | 73.4% | 504 | 492 | 78.0% | 4.7% |
| Pentachlorophenol | < 588 U | 1090 | 1480 | 73.6% | 1230 | 1470 | 83.7% | 12.1% |
| Phenanthrene | 1060 | 1320 | 492 | 52.8% | 1460 | 492 | 81.3% | 10.1% |
| Carbazole | 61.7 | 416 | 492 | 72.0% | 510 | 492 | 91.1% | 20.3% |
| Anthracene | 170 | 490 | 492 | 65.0% | 552 | 492 | 77.6% | 11.9% |
| Di-n-Butylphthalate | < 58.8 U | 407 | 492 | 82.7% | 442 | 492 | 89.8% | 8.2% |
| Fluoranthene | 1070 | 1350 | 492 | 56.9% | 1520 | 492 | 91.5% | 11.8% |
| Pyrene | 961 | 1210 | 492 | 50.6% | 1330 | 492 | 75.0% | 9.4% |
| Butylbenzylphthalate | < 58.8 U | 413 | 492 | 83.9% | 437 | 492 | 88.8% | 5.6% |
| Benzo(a)anthracene | 185 | 570 | 492 | 78.3% | 640 | 492 | 92.5% | 11.6% |
| bis(2-Ethylhexyl)phthalate | 118 | 481 | 492 | 73.8% | 513 | 492 | 80.3% | 6.4% |
| Chrysene | 288 | 688 | 492 | 81.3% | 811 | 492 | 106% | 16.4% |
| Di-n-Octyl phthalate | < 17.2 UJ | 375 | 492 | 76.2% | 416 | 492 | 84.6% | 10.4% |
| Benzo(a)pyrene | 270 | 611 | 492 | 69.3% | 779 | 492 | 103% | 24.2% |
| Indeno(1,2,3-cd)pyrene | 194 | 546 | 492 | 71.5% | 655 | 492 | 93.7% | 18.2% |
| Dibenz(a,h)anthracene | 58.8 | 387 | 492 | 66.7% | 487 | 492 | 87.0% | 22.9% |
| Benzo(g,h,i)perylene | 250 | 638 | 492 | 78.9% | 729 | 492 | 97.4% | 13.3% |
| Total Benzofluoranthenes | 541 | 1250 | 984 | 72.1% | 1480 | 983 | 95.5% | 16.8% |

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS007-SS-120515
MATRIX SPIKE

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/29/12 11:41
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|-----------------|----------------------------|-----------|-----------|-----------|
| 108-95-2 | Phenol | 26 | 59 | --- |
| 106-44-5 | 4-Methylphenol | 20 | 120 | --- |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | --- |
| 91-20-3 | Naphthalene | 8.1 | 59 | --- |
| 91-57-6 | 2-Methylnaphthalene | 9.0 | 59 | --- |
| 131-11-3 | Dimethylphthalate | 8.6 | 59 | --- |
| 208-96-8 | Acenaphthylene | 17 | 59 | --- |
| 83-32-9 | Acenaphthene | 9.7 | 59 | --- |
| 132-64-9 | Dibenzofuran | 12 | 59 | --- |
| 86-73-7 | Fluorene | 13 | 59 | --- |
| 87-86-5 | Pentachlorophenol | 140 | 590 | --- |
| 85-01-8 | Phenanthrene | 11 | 59 | --- |
| 86-74-8 | Carbazole | 7.9 | 59 | --- |
| 120-12-7 | Anthracene | 13 | 59 | --- |
| 84-74-2 | Di-n-Butylphthalate | 24 | 59 | --- |
| 206-44-0 | Fluoranthene | 8.6 | 59 | --- |
| 129-00-0 | Pyrene | 5.7 | 59 | --- |
| 85-68-7 | Butylbenzylphthalate | 18 | 59 | --- |
| 56-55-3 | Benzo(a)anthracene | 9.7 | 59 | --- |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 43 | 74 | --- |
| 218-01-9 | Chrysene | 11 | 59 | --- |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 59 | --- |
| 50-32-8 | Benzo(a)pyrene | 16 | 59 | --- |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 14 | 59 | --- |
| 53-70-3 | Dibenz(a,h)anthracene | 13 | 59 | --- |
| 191-24-2 | Benzo(g,h,i)perylene | 13 | 59 | --- |
| 483-65-8 | Retene | 59 | 59 | 92 |
| TOTBFA | Total Benzofluoranthenes | 8.1 | 59 | --- |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 58.8% | 2-Fluorobiphenyl | 64.2% |
| d14-p-Terphenyl | 65.4% | d4-1,2-Dichlorobenzene | 58.2% |
| d5-Phenol | 60.0% | 2-Fluorophenol | 59.6% |
| 2,4,6-Tribromophenol | 70.4% | d4-2-Chlorophenol | 62.8% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS007-SS-120515
MATRIX SPIKE DUPLICATE

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/29/12 12:19
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|-----------------|----------------------------|-----------|-----------|-----------|
| 108-95-2 | Phenol | 26 | 59 | --- |
| 106-44-5 | 4-Methylphenol | 20 | 120 | --- |
| 65-85-0 | Benzoic Acid | 300 | 1,200 | --- |
| 91-20-3 | Naphthalene | 8.1 | 59 | --- |
| 91-57-6 | 2-Methylnaphthalene | 9.0 | 59 | --- |
| 131-11-3 | Dimethylphthalate | 8.6 | 59 | --- |
| 208-96-8 | Acenaphthylene | 17 | 59 | --- |
| 83-32-9 | Acenaphthene | 9.7 | 59 | --- |
| 132-64-9 | Dibenzofuran | 12 | 59 | --- |
| 86-73-7 | Fluorene | 13 | 59 | --- |
| 87-86-5 | Pentachlorophenol | 140 | 590 | --- |
| 85-01-8 | Phenanthrene | 11 | 59 | --- |
| 86-74-8 | Carbazole | 7.9 | 59 | --- |
| 120-12-7 | Anthracene | 13 | 59 | --- |
| 84-74-2 | Di-n-Butylphthalate | 24 | 59 | --- |
| 206-44-0 | Fluoranthene | 8.6 | 59 | --- |
| 129-00-0 | Pyrene | 5.7 | 59 | --- |
| 85-68-7 | Butylbenzylphthalate | 18 | 59 | --- |
| 56-55-3 | Benzo(a)anthracene | 9.7 | 59 | --- |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 43 | 74 | --- |
| 218-01-9 | Chrysene | 11 | 59 | --- |
| 117-84-0 | Di-n-Octyl phthalate | 17 | 59 | --- |
| 50-32-8 | Benzo(a)pyrene | 16 | 59 | --- |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 14 | 59 | --- |
| 53-70-3 | Dibenz(a,h)anthracene | 13 | 59 | --- |
| 191-24-2 | Benzo(g,h,i)perylene | 13 | 59 | --- |
| 483-65-8 | Retene | 59 | 59 | 94 |
| TOTBFA | Total Benzofluoranthenes | 8.1 | 59 | --- |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 64.8% | 2-Fluorobiphenyl | 69.6% |
| d14-p-Terphenyl | 73.2% | d4-1,2-Dichlorobenzene | 61.2% |
| d5-Phenol | 65.6% | 2-Fluorophenol | 64.0% |
| 2,4,6-Tribromophenol | 76.0% | d4-2-Chlorophenol | 66.0% |

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: LCS-052212

LAB CONTROL

Lab Sample ID: LCS-052212

LIMS ID: 12-8900

Matrix: Sediment

Data Release Authorized: *B*

Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted: 05/22/12

Date Analyzed: 05/26/12 16:34

Instrument/Analyst: NT10/YZ

GPC Cleanup: Yes

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Percent Moisture: NA

| Analyte | Lab Control | Spike Added | Recovery |
|----------------------------|-------------|-------------|----------|
| Phenol | 418 | 500 | 83.6% |
| 4-Methylphenol | 656 | 1000 | 65.6% |
| Benzoic Acid | 1330 | 2750 | 48.4% |
| Naphthalene | 399 | 500 | 79.8% |
| 2-Methylnaphthalene | 384 | 500 | 76.8% |
| Dimethylphthalate | 423 | 500 | 84.6% |
| Acenaphthylene | 395 | 500 | 79.0% |
| Acenaphthene | 407 | 500 | 81.4% |
| Dibenzofuran | 394 | 500 | 78.8% |
| Fluorene | 412 | 500 | 82.4% |
| Pentachlorophenol | 1160 | 1500 | 77.3% |
| Phenanthrene | 443 | 500 | 88.6% |
| Carbazole | 461 | 500 | 92.2% |
| Anthracene | 413 | 500 | 82.6% |
| Di-n-Butylphthalate | 454 | 500 | 90.8% |
| Fluoranthene | 464 | 500 | 92.8% |
| Pyrene | 450 | 500 | 90.0% |
| Butylbenzylphthalate | 460 | 500 | 92.0% |
| Benzo(a)anthracene | 431 | 500 | 86.2% |
| bis(2-Ethylhexyl)phthalate | 467 | 500 | 93.4% |
| Chrysene | 440 | 500 | 88.0% |
| Di-n-Octyl phthalate | 459 | 500 | 91.8% |
| Benzo(a)pyrene | 402 | 500 | 80.4% |
| Indeno(1,2,3-cd)pyrene | 445 | 500 | 89.0% |
| Dibenz(a,h)anthracene | 449 | 500 | 89.8% |
| Benzo(g,h,i)perylene | 452 | 500 | 90.4% |
| Total Benzofluoranthenes | 888 | 1000 | 88.8% |

Semivolatile Surrogate Recovery

| | |
|------------------------|-------|
| d5-Nitrobenzene | 72.6% |
| 2-Fluorobiphenyl | 73.0% |
| d14-p-Terphenyl | 83.2% |
| d4-1,2-Dichlorobenzene | 72.2% |
| d5-Phenol | 76.8% |
| 2-Fluorophenol | 74.1% |
| 2,4,6-Tribromophenol | 82.8% |
| d4-2-Chlorophenol | 75.6% |

Reported in µg/kg (ppb)

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

| |
|----------|
| UU52MBS1 |
|----------|

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: UU52

Project: JELD WEN MAULSBY MAR

Lab File ID: UU52MB

Date Extracted: 05/22/12

Instrument ID: NT10

Date Analyzed: 05/26/12

Matrix: SOLID

Time Analyzed: 1556

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| 01 | UU52LCSS1 | UU52LCSS1 | UU52SB | 05/26/12 |
| 02 | MS001-SS-120515 | UU52A | UU52A | 05/26/12 |
| 03 | MS101-SS-120515 | UU52B | UU52B | 05/26/12 |
| 04 | MS002-SS-120515 | UU52C | UU52C | 05/26/12 |
| 05 | MS003-SS-120515 | UU52D | UU52D | 05/26/12 |
| 06 | MS004-SS-120515 | UU52E | UU52E | 05/26/12 |
| 07 | MS005-SS-120515 | UU52F | UU52F | 05/26/12 |
| 08 | MS006-SS-120515 | UU52G | UU52G | 05/26/12 |
| 09 | MS007-SS-120515 | UU52H | UU52H | 05/26/12 |
| 10 | MS007-SS-120515 | UU52HMS | UU52HMS | 05/29/12 |
| 11 | MS007-SS-120515 | UU52HMSD | UU52HMSD | 05/29/12 |
| 12 | MS008-SS-120515 | UU52I | UU52I | 05/29/12 |
| 13 | MS009-SS-120515 | UU52J | UU52J | 05/29/12 |
| 14 | MS006-SS-120515 | UU52G | UU52G6 | 05/30/12 |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
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| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MB-052212
METHOD BLANK

Lab Sample ID: MB-052212
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/05/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 15:56
 Instrument/Analyst: NT10/YZ
 GPC Cleanup: Yes

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

| CAS Number | Analyte | MDL | RL | Result |
|------------|----------------------------|-----|-----|----------|
| 108-95-2 | Phenol | 8.6 | 20 | < 20 U |
| 106-44-5 | 4-Methylphenol | 6.6 | 40 | < 40 U |
| 65-85-0 | Benzoic Acid | 100 | 400 | < 400 U |
| 91-20-3 | Naphthalene | 2.8 | 20 | < 20 U |
| 91-57-6 | 2-Methylnaphthalene | 3.1 | 20 | < 20 U |
| 131-11-3 | Dimethylphthalate | 2.9 | 20 | < 20 U |
| 208-96-8 | Acenaphthylene | 5.7 | 20 | < 20 U |
| 83-32-9 | Acenaphthene | 3.3 | 20 | < 20 U |
| 132-64-9 | Dibenzofuran | 4.1 | 20 | < 20 U |
| 86-73-7 | Fluorene | 4.4 | 20 | < 20 U |
| 87-86-5 | Pentachlorophenol | 48 | 200 | < 200 U |
| 85-01-8 | Phenanthrene | 3.6 | 20 | < 20 U |
| 86-74-8 | Carbazole | 2.7 | 20 | < 20 U |
| 120-12-7 | Anthracene | 4.5 | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 8.2 | 20 | < 20 U |
| 206-44-0 | Fluoranthene | 2.9 | 20 | < 20 U |
| 129-00-0 | Pyrene | 1.9 | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 6.1 | 20 | < 20 U |
| 56-55-3 | Benzo(a)anthracene | 3.3 | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 15 | 25 | < 25 U |
| 218-01-9 | Chrysene | 3.8 | 20 | < 20 U |
| 117-84-0 | Di-n-Octyl phthalate | 5.8 | 20 | < 5.8 UJ |
| 50-32-8 | Benzo(a)pyrene | 5.4 | 20 | < 20 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4.7 | 20 | < 20 U |
| 53-70-3 | Dibenz(a,h)anthracene | 4.3 | 20 | < 20 U |
| 191-24-2 | Benzo(g,h,i)perylene | 4.4 | 20 | < 20 U |
| 483-65-8 | Retene | 20 | 20 | < 20 U |
| TOTBFA | Total Benzofluoranthenes | 2.8 | 20 | < 20 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 56.2% | 2-Fluorobiphenyl | 55.8% |
| d14-p-Terphenyl | 66.4% | d4-1,2-Dichlorobenzene | 55.4% |
| d5-Phenol | 55.1% | 2-Fluorophenol | 53.3% |
| 2,4,6-Tribromophenol | 55.1% | d4-2-Chlorophenol | 56.0% |

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

Instrument ID: NT10

Project: JELD WEN MAULSBY MARSH

DFTPP Injection Date: 05/26/12

DFTPP Injection Time: 1044

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 25.1 |
| 68 | Less than 2.0% of mass 69 | 0.6 (1.5)1 |
| 69 | Mass 69 relative abundance | 41.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.4)1 |
| 127 | 10.0 - 80.0% of mass 198 | 51.5 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 24.4 |
| 365 | Greater than 1.0% of mass 198 | 3.46 |
| 441 | 0.0 - 24.0% of mass 442 | 12.2 (15.8)2 |
| 442 | 50.0 - 200.0% of mass 198 | 77.1 |
| 443 | 15.0 - 24.0% of mass 442 | 15.4 (19.9)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 | | ABN5 | IC0526A | 05/26/12 | 1059 |
| 02 | | ABN20 | IC0526B | 05/26/12 | 1136 |
| 03 | | ABN.2 | IC0526C | 05/26/12 | 1213 |
| 04 | | ABN10 | IC0526D | 05/26/12 | 1250 |
| 05 | | ABN.5 | IC0526E | 05/26/12 | 1327 |
| 06 | | ABN2.5 | IC0526F | 05/26/12 | 1405 |
| 07 | | ABN1.0 | IC0526G | 05/26/12 | 1442 |
| 08 | UU52MBS1 | UU52MBS1 | UU52MB | 05/26/12 | 1556 |
| 09 | UU52LCSS1 | UU52LCSS1 | UU52SB | 05/26/12 | 1634 |
| 10 | MS001-SS-120515 | UU52A | UU52A | 05/26/12 | 1711 |
| 11 | MS101-SS-120515 | UU52B | UU52B | 05/26/12 | 1748 |
| 12 | MS002-SS-120515 | UU52C | UU52C | 05/26/12 | 1825 |
| 13 | MS003-SS-120515 | UU52D | UU52D | 05/26/12 | 1902 |
| 14 | MS004-SS-120515 | UU52E | UU52E | 05/26/12 | 1939 |
| 15 | MS005-SS-120515 | UU52F | UU52F | 05/26/12 | 2016 |
| 16 | MS006-SS-120515 | UU52G | UU52G | 05/26/12 | 2054 |
| 17 | MS007-SS-120515 | UU52H | UU52H | 05/26/12 | 2131 |
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

Instrument ID: NT10

Project: JELD WEN MAULSBY MARSH

DFTPP Injection Date: 05/29/12

DFTPP Injection Time: 1046

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 25.1 |
| 68 | Less than 2.0% of mass 69 | 0.6 (1.4)1 |
| 69 | Mass 69 relative abundance | 41.5 |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.4)1 |
| 127 | 10.0 - 80.0% of mass 198 | 51.8 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 25.0 |
| 365 | Greater than 1.0% of mass 198 | 3.38 |
| 441 | 0.0 - 24.0% of mass 442 | 12.1 (15.6)2 |
| 442 | 50.0 - 200.0% of mass 198 | 77.6 |
| 443 | 15.0 - 24.0% of mass 442 | 14.9 (19.3)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 | | CC0529 | CC0529 | 05/29/12 | 1101 |
| 02 | MS007-SS-120515 | UU52HMS | UU52HMS | 05/29/12 | 1141 |
| 03 | MS007-SS-120515 | UU52HMSD | UU52HMSD | 05/29/12 | 1219 |
| 04 | MS008-SS-120515 | UU52I | UU52I | 05/29/12 | 1256 |
| 05 | MS009-SS-120515 | UU52J | UU52J | 05/29/12 | 1333 |
| 06 | | | | | |
| 07 | | | | | |
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

Instrument ID: NT10

Project: JELD WEN MAULSBY MARSH

DFTPP Injection Date: 05/30/12

DFTPP Injection Time: 1212

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 25.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 (1.3)1 |
| 69 | Mass 69 relative abundance | 42.0 |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.4)1 |
| 127 | 10.0 - 80.0% of mass 198 | 50.1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 24.6 |
| 365 | Greater than 1.0% of mass 198 | 3.34 |
| 441 | 0.0 - 24.0% of mass 442 | 12.0 (15.4)2 |
| 442 | 50.0 - 200.0% of mass 198 | 77.7 |
| 443 | 15.0 - 24.0% of mass 442 | 15.2 (19.6)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 | | CC0530 | CC0530 | 05/30/12 | 1227 |
| 02 | MS006-SS-120515 | UU52G | UU52G6 | 05/30/12 | 1304 |
| 03 | | | | | |
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SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Calibration Date: 05/26/12

| LAB FILE ID: | RRF0.2=IC0526C | RRF0.5=IC0526E | RRF1 =IC0526G | | | | | | |
|------------------------------|----------------|----------------|----------------|------------|----------|-----------|-----------|-------|--------------|
| | RRF2.5=IC0526F | RRF5 =IC0526A | RRF10 =IC0526D | | | | | | |
| | RRF20 =IC0526B | | | | | | | | |
| COMPOUND | RRF 0.2 | RRF 0.5 | RRF 1 | RRF 2.5 | RRF 5 | RRF 10 | RRF 20 | RRF | %RSD /R^2 |
| Phenol | 1.938 | 1.782 | 1.799 | 1.837 | 1.945 | 1.859 | 1.841 | 1.857 | 3.4 |
| Bis(2-Chloroethyl) ether | 1.460 | 1.387 | 1.409 | 1.379 | 1.359 | 1.357 | 1.328 | 1.383 | 3.1 |
| 2-Chlorophenol | 1.591 | 1.562 | 1.601 | 1.599 | 1.641 | 1.749 | 1.736 | 1.640 | 4.5 |
| 1,3-Dichlorobenzene | 1.720 | 1.648 | 1.662 | 1.652 | 1.657 | 1.607 | 1.548 | 1.642 | 3.2 |
| 1,4-Dichlorobenzene | 1.670 | 1.614 | 1.602 | 1.614 | 1.592 | 1.585 | 1.542 | 1.603 | 2.4 |
| 1,2-Dichlorobenzene | 1.584 | 1.569 | 1.616 | 1.560 | 1.570 | 1.542 | 1.506 | 1.564 | 2.2 |
| Benzyl alcohol | 0.791 | 0.754 | 0.686 | 0.756 | 0.807 | 0.835 | 0.832 | 0.780 | 6.7 |
| 2,2'-oxybis(1-Chloropropane) | 0.531 | 0.522 | 0.510 | 0.499 | 0.515 | 0.497 | 0.491 | 0.509 | 2.8 |
| 2-Methylphenol | 1.537 | 1.414 | 1.454 | 1.445 | 1.466 | 1.471 | 1.460 | 1.464 | 2.6 |
| Hexachloroethane | 0.616 | 0.617 | 0.615 | 0.618 | 0.624 | 0.631 | 0.637 | 0.622 | 1.4 |
| N-Nitroso-di-n-propylamine | 0.858 | 0.882 | 0.882 | 0.880 | 0.856 | 0.851 | 0.829 | 0.862 | 2.3 |
| 4-Methylphenol | 1.520 | 1.518 | 1.520 | 1.549 | 1.532 | 1.541 | 1.508 | 1.527 | 0.9 |
| Nitrobenzene | 0.371 | 0.350 | 0.355 | 0.346 | 0.352 | 0.351 | 0.343 | 0.352 | 2.5 |
| Isophorone | 0.647 | 0.615 | 0.661 | 0.654 | 0.679 | 0.680 | 0.719 | 0.665 | 4.9 |
| 2-Nitrophenol | 0.217 | 0.206 | 0.218 | 0.220 | 0.234 | 0.232 | 0.230 | 0.222 | 4.5 |
| 2,4-Dimethylphenol | 0.347 | 0.340 | 0.366 | 0.356 | 0.364 | 0.351 | 0.342 | 0.352 | 2.9 |
| Bis(2-Chloroethoxy)methane | 0.413 | 0.391 | 0.409 | 0.387 | 0.398 | 0.390 | 0.384 | 0.396 | 2.9 |
| 2,4-Dichlorophenol | 0.297 | 0.336 | 0.340 | 0.346 | 0.354 | 0.363 | 0.336 | 0.339 | 6.2 |
| 1,2,4-Trichlorobenzene | 0.340 | 0.332 | 0.329 | 0.315 | 0.325 | 0.314 | 0.303 | 0.322 | 3.9 |
| Naphthalene | 1.019 | 0.990 | 1.020 | 0.987 | 1.023 | 1.022 | 0.998 | 1.008 | 1.6 |
| Benzoic acid | | 0.094 | 0.130 | 0.188 | 0.236 | 0.253 | 0.270 | 0.195 | 0.999 |
| 4-Chloroaniline | 0.423 | 0.404 | 0.470 | 0.485 | 0.453 | 0.455 | 0.454 | 0.449 | 6.1 |
| Hexachlorobutadiene | 0.171 | 0.174 | 0.173 | 0.173 | 0.181 | 0.175 | 0.166 | 0.173 | 2.6 |
| 4-Chloro-3-methylphenol | 0.278 | 0.277 | 0.303 | 0.301 | 0.320 | 0.325 | 0.324 | 0.304 | 6.8 |
| 2-Methylnaphthalene | 0.689 | 0.674 | 0.692 | 0.694 | 0.722 | 0.721 | 0.714 | 0.701 | 2.6 |
| Hexachlorocyclopentadiene | | 0.114 | 0.171 | 0.233 | 0.279 | 0.320 | 0.341 | 0.243 | 0.998 |
| 2,4,6-Trichlorophenol | 0.365 | 0.362 | 0.383 | 0.407 | 0.412 | 0.420 | 0.409 | 0.394 | 6.0 |
| 2,4,5-Trichlorophenol | 0.373 | 0.372 | 0.415 | 0.429 | 0.458 | 0.460 | 0.447 | 0.422 | 8.9 |
| 2-Chloronaphthalene | 1.186 | 1.155 | 1.214 | 1.192 | 1.183 | 1.206 | 1.161 | 1.185 | 1.8 |
| 2-Nitroaniline | 0.277 | 0.270 | 0.280 | 0.288 | 0.285 | 0.296 | 0.288 | 0.283 | 2.9 |
| Acenaphthylene | 1.851 | 1.791 | 1.804 | 1.809 | 1.782 | 1.823 | 1.715 | 1.796 | 2.4 |
| Dimethylphthalate | 1.288 | 1.237 | 1.277 | 1.254 | 1.226 | 1.219 | 1.102 | 1.229 | 5.0 |
| 2,6-Dinitrotoluene | 0.285 | 0.288 | 0.308 | 0.306 | 0.305 | 0.313 | 0.291 | 0.299 | 3.8 |
| Acenaphthene | 1.092 | 1.055 | 1.083 | 1.094 | 1.090 | 1.103 | 1.068 | 1.084 | 1.5 |
| 3-Nitroaniline | 0.330 | 0.330 | 0.343 | 0.346 | 0.336 | 0.354 | 0.327 | 0.338 | 3.0 |
| 2,4-Dinitrophenol | | 0.034 | 0.077 | 0.138 | 0.187 | 0.217 | 0.224 | 0.146 | 0.998 |
| Dibenzofuran | 1.561 | 1.557 | 1.619 | 1.620 | 1.575 | 1.609 | 1.570 | 1.587 | 1.7 |

<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Calibration Date: 05/26/12

| LAB FILE ID: | RRF0.2=IC0526C | RRF0.5=IC0526E | RRF1 =IC0526G | | | | | | |
|------------------------------|----------------|----------------|----------------|------------|----------|-----------|-----------|-------|--------------|
| | RRF2.5=IC0526F | RRF5 =IC0526A | RRF10 =IC0526D | | | | | | |
| | RRF20 =IC0526B | | | | | | | | |
| COMPOUND | RRF 0.2 | RRF 0.5 | RRF 1 | RRF 2.5 | RRF 5 | RRF 10 | RRF 20 | RRF | %RSD /R^2 |
| 4-Nitrophenol | 0.106 | 0.112 | 0.124 | 0.137 | 0.142 | 0.151 | 0.139 | 0.130 | 12.7 |
| 2,4-Dinitrotoluene | 0.340 | 0.364 | 0.395 | 0.399 | 0.410 | 0.413 | 0.383 | 0.386 | 6.9 |
| Fluorene | 1.279 | 1.208 | 1.223 | 1.211 | 1.202 | 1.206 | 1.186 | 1.216 | 2.4 |
| 4-Chlorophenyl-phenylether | 0.599 | 0.570 | 0.586 | 0.582 | 0.578 | 0.581 | 0.547 | 0.578 | 2.8 |
| Diethylphthalate | 1.238 | 1.230 | 1.219 | 1.235 | 1.209 | 1.170 | 1.086 | 1.198 | 4.6 |
| 4-Nitroaniline | 0.301 | 0.358 | 0.377 | 0.355 | 0.339 | 0.338 | 0.350 | 0.345 | 6.8 |
| 4,6-Dinitro-2-methylphenol | | 0.107 | 0.139 | 0.162 | 0.179 | 0.186 | 0.180 | 0.159 | 19.4 |
| N-Nitrosodiphenylamine (1) | 0.564 | 0.550 | 0.561 | 0.536 | 0.537 | 0.527 | 0.492 | 0.538 | 4.5 |
| 4-Bromophenyl-phenylether | 0.220 | 0.201 | 0.214 | 0.211 | 0.217 | 0.224 | 0.212 | 0.214 | 3.4 |
| Hexachlorobenzene | 0.246 | 0.253 | 0.252 | 0.249 | 0.242 | 0.245 | 0.241 | 0.247 | 1.9 |
| Pentachlorophenol | | 0.052 | 0.078 | 0.098 | 0.130 | 0.138 | 0.143 | 0.106 | 0.998 |
| Phenanthrene | 1.060 | 0.976 | 1.036 | 1.008 | 1.023 | 1.041 | 1.075 | 1.031 | 3.2 |
| Anthracene | 1.070 | 1.030 | 1.068 | 1.054 | 1.113 | 1.103 | 1.104 | 1.077 | 2.8 |
| Carbazole | 1.025 | 1.038 | 1.070 | 0.995 | 0.948 | 0.890 | 1.012 | 0.997 | 6.0 |
| Di-n-butylphthalate | 1.334 | 1.278 | 1.384 | 1.371 | 1.471 | 1.486 | 1.498 | 1.403 | 6.0 |
| Fluoranthene | 1.154 | 1.110 | 1.131 | 1.139 | 1.202 | 1.218 | 1.242 | 1.171 | 4.3 |
| Pyrene | 1.206 | 1.159 | 1.236 | 1.209 | 1.245 | 1.233 | 1.231 | 1.217 | 2.4 |
| Butylbenzylphthalate | 0.577 | 0.555 | 0.571 | 0.562 | 0.584 | 0.554 | 0.549 | 0.564 | 2.3 |
| Benzo(a)anthracene | 1.207 | 1.091 | 1.119 | 1.099 | 1.111 | 1.116 | 1.134 | 1.125 | 3.4 |
| 3,3'-Dichlorobenzidine | | 0.634 | 0.646 | 0.639 | 0.586 | 0.537 | 0.654 | 0.616 | 7.4 |
| Chrysene | 0.989 | 0.952 | 0.998 | 0.965 | 1.006 | 1.010 | 1.009 | 0.990 | 2.3 |
| bis(2-Ethylhexyl)phthalate | 0.607 | 0.550 | 0.540 | 0.538 | 0.544 | 0.546 | 0.520 | 0.549 | 4.9 |
| Di-n-octylphthalate | 1.036 | 0.963 | 0.987 | 0.956 | 0.967 | 0.959 | 0.944 | 0.973 | 3.1 |
| Benzo(b)fluoranthene | 1.099 | 1.056 | 1.100 | 1.062 | 1.182 | 1.124 | 1.242 | 1.124 | 6.0 |
| Benzo(k)fluoranthene | 1.274 | 1.285 | 1.285 | 1.251 | 1.192 | 1.265 | 1.108 | 1.237 | 5.3 |
| Benzo(a)pyrene | 1.065 | 0.984 | 1.038 | 1.015 | 1.048 | 1.051 | 1.039 | 1.034 | 2.6 |
| Indeno(1,2,3-cd)pyrene | 1.121 | 1.119 | 1.177 | 1.212 | 1.249 | 1.259 | 1.237 | 1.196 | 4.9 |
| Dibenzo(a,h)anthracene | 0.850 | 0.866 | 0.936 | 0.958 | 0.992 | 1.004 | 0.989 | 0.942 | 6.6 |
| Benzo(g,h,i)perylene | 1.002 | 0.953 | 1.000 | 1.025 | 1.068 | 1.072 | 1.060 | 1.026 | 4.3 |
| N-Nitrosodimethylamine | 0.862 | 0.833 | 0.832 | 0.846 | 0.844 | 0.823 | 0.782 | 0.832 | 3.0 |
| Aniline | 4.087 | 3.968 | 4.063 | 3.997 | 3.987 | 3.874 | 3.718 | 3.956 | 3.2 |
| Benzidine | 0.470 | 0.467 | 0.476 | 0.425 | 0.340 | 0.441 | 0.579 | 0.457 | 15.6 |
| Retene | 0.551 | 0.538 | 0.552 | 0.560 | 0.588 | 0.585 | 0.592 | 0.566 | 3.8 |
| Perylene | 1.067 | 1.004 | 1.050 | 1.003 | 1.044 | 1.055 | 1.054 | 1.040 | 2.5 |
| Pyridine | 0.736 | 0.695 | 0.751 | 0.741 | 0.695 | 0.711 | 0.698 | 0.718 | 3.3 |
| 1-methylnaphthalene | 0.690 | 0.690 | 0.700 | 0.710 | 0.740 | 0.738 | 0.735 | 0.715 | 3.2 |
| Azobenzene (1,2-DP-Hydrazine | 1.292 | 1.215 | 1.244 | 1.245 | 1.187 | 1.208 | 1.107 | 1.214 | 4.8 |

(1) Cannot be separated from Diphenylamine

<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Calibration Date: 05/26/12

| LAB FILE ID: | RRF0.2=IC0526C | RRF0.5=IC0526E | RRF1 =IC0526G | | | | | | |
|--------------------------|----------------|----------------|----------------|------------|----------|-----------|-----------|-------|--------------|
| | RRF2.5=IC0526F | RRF5 =IC0526A | RRF10 =IC0526D | | | | | | |
| | RRF20 =IC0526B | | | | | | | | |
| COMPOUND | RRF 0.2 | RRF 0.5 | RRF 1 | RRF 2.5 | RRF 5 | RRF 10 | RRF 20 | RRF | %RSD /R^2 |
| Total Benzofluoranthenes | 1.124 | 1.091 | 1.124 | 1.083 | 1.118 | 1.124 | 1.104 | 1.110 | 1.6 |
| 2-Fluorophenol | 1.380 | 1.389 | 1.397 | 1.401 | 1.417 | 1.437 | 1.369 | 1.398 | 1.6 |
| Phenol-d5 | 1.676 | 1.697 | 1.709 | 1.740 | 1.776 | 1.808 | 1.791 | 1.742 | 2.9 |
| 2-Chlorophenol-d4 | 1.557 | 1.524 | 1.537 | 1.497 | 1.523 | 1.523 | 1.525 | 1.526 | 1.2 |
| 1,2-Dichlorobenzene-d4 | 1.006 | 0.973 | 1.017 | 0.997 | 1.013 | 1.007 | 0.997 | 1.001 | 1.4 |
| Nitrobenzene-d5 | 0.357 | 0.347 | 0.362 | 0.360 | 0.366 | 0.361 | 0.356 | 0.358 | 1.7 |
| 2-Fluorobiphenyl | 1.422 | 1.388 | 1.385 | 1.405 | 1.355 | 1.402 | 1.348 | 1.386 | 1.9 |
| 2,4,6-Tribromophenol | 0.154 | 0.157 | 0.164 | 0.165 | 0.172 | 0.174 | 0.169 | 0.165 | 4.5 |
| Terphenyl-d14 | 0.792 | 0.755 | 0.775 | 0.777 | 0.776 | 0.743 | 0.719 | 0.762 | 3.3 |
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<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/26/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1059

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Phenol | 1.857 | 1.945 | 0.800 | AVRG | 4.7 |
| Bis(2-Chloroethyl)ether | 1.383 | 1.359 | 0.700 | AVRG | -1.7 |
| 2-Chlorophenol | 1.640 | 1.641 | 0.800 | AVRG | 0.1 |
| 1,3-Dichlorobenzene | 1.642 | 1.657 | 0.010 | AVRG | 0.9 |
| 1,4-Dichlorobenzene | 1.603 | 1.592 | 0.010 | AVRG | -0.7 |
| 1,2-Dichlorobenzene | 1.564 | 1.570 | 0.010 | AVRG | 0.4 |
| Benzyl alcohol | 0.780 | 0.807 | 0.010 | AVRG | 3.5 |
| 2,2'-oxybis(1-Chloropropane) | 0.509 | 0.515 | 0.010 | AVRG | 1.2 |
| 2-Methylphenol | 1.464 | 1.466 | 0.700 | AVRG | 0.1 |
| Hexachloroethane | 0.622 | 0.624 | 0.300 | AVRG | 0.3 |
| N-Nitroso-di-n-propylamine | 0.862 | 0.856 | 0.500 | AVRG | -0.7 |
| 4-Methylphenol | 1.527 | 1.532 | 0.600 | AVRG | 0.3 |
| Nitrobenzene | 0.352 | 0.352 | 0.200 | AVRG | 0.0 |
| Isophorone | 0.665 | 0.679 | 0.400 | AVRG | 2.1 |
| 2-Nitrophenol | 0.222 | 0.234 | 0.100 | AVRG | 5.4 |
| 2,4-Dimethylphenol | 0.352 | 0.364 | 0.200 | AVRG | 3.4 |
| Bis(2-Chloroethoxy)methane | 0.396 | 0.398 | 0.300 | AVRG | 0.5 |
| 2,4-Dichlorophenol | 0.339 | 0.354 | 0.200 | AVRG | 4.4 |
| 1,2,4-Trichlorobenzene | 0.322 | 0.325 | 0.010 | AVRG | 0.9 |
| Naphthalene | 1.008 | 1.023 | 0.700 | AVRG | 1.5 |
| Benzoic acid | 20.00 | 19.86 | 0.010 | 2ORDR | -0.7 |
| 4-Chloroaniline | 0.449 | 0.453 | 0.010 | AVRG | 0.9 |
| Hexachlorobutadiene | 0.173 | 0.181 | 0.010 | AVRG | 4.6 |
| 4-Chloro-3-methylphenol | 0.304 | 0.320 | 0.200 | AVRG | 5.3 |
| 2-Methylnaphthalene | 0.701 | 0.722 | 0.400 | AVRG | 3.0 |
| Hexachlorocyclopentadiene | 10.00 | 9.487 | 0.050 | 2ORDR | -5.1 |
| 2,4,6-Trichlorophenol | 0.394 | 0.412 | 0.200 | AVRG | 4.6 |
| 2,4,5-Trichlorophenol | 0.422 | 0.458 | 0.200 | AVRG | 8.5 |
| 2-Chloronaphthalene | 1.185 | 1.183 | 0.800 | AVRG | -0.2 |
| 2-Nitroaniline | 0.283 | 0.285 | 0.010 | AVRG | 0.7 |
| Acenaphthylene | 1.796 | 1.782 | 0.900 | AVRG | -0.8 |
| Dimethylphthalate | 1.229 | 1.226 | 0.010 | AVRG | -0.2 |
| 2,6-Dinitrotoluene | 0.299 | 0.305 | 0.200 | AVRG | 2.0 |
| Acenaphthene | 1.084 | 1.090 | 0.900 | AVRG | 0.6 |
| 3-Nitroaniline | 0.338 | 0.336 | 0.010 | AVRG | -0.6 |
| 2,4-Dinitrophenol | 20.00 | 18.77 | 0.010 | 2ORDR | -6.2 |
| Dibenzofuran | 1.587 | 1.575 | 0.800 | AVRG | -0.8 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/26/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1059

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|----------------------------|------------------|-----------------|------------|---------------|----------------|
| 4-Nitrophenol | 0.130 | 0.142 | 0.010 | AVRG | 9.2 |
| 2,4-Dinitrotoluene | 0.386 | 0.410 | 0.200 | AVRG | 6.2 |
| Fluorene | 1.216 | 1.202 | 0.900 | AVRG | -1.2 |
| 4-Chlorophenyl-phenylether | 0.578 | 0.578 | 0.400 | AVRG | 0.0 |
| Diethylphthalate | 1.198 | 1.209 | 0.010 | AVRG | 0.9 |
| 4-Nitroaniline | 0.345 | 0.339 | 0.010 | AVRG | -1.7 |
| 4,6-Dinitro-2-methylphenol | 0.159 | 0.179 | 0.010 | AVRG | 12.6 |
| N-Nitrosodiphenylamine (1) | 0.538 | 0.537 | 0.010 | AVRG | -0.2 |
| 4-Bromophenyl-phenylether | 0.214 | 0.217 | 0.100 | AVRG | 1.4 |
| Hexachlorobenzene | 0.247 | 0.242 | 0.100 | AVRG | -2.0 |
| Pentachlorophenol | 10.00 | 9.963 | 0.050 | 2ORDR | -0.4 |
| Phenanthrene | 1.031 | 1.023 | 0.700 | AVRG | -0.8 |
| Anthracene | 1.077 | 1.113 | 0.700 | AVRG | 3.3 |
| Carbazole | 0.997 | 0.948 | 0.010 | AVRG | -4.9 |
| Di-n-butylphthalate | 1.403 | 1.471 | 0.010 | AVRG | 4.8 |
| Fluoranthene | 1.171 | 1.202 | 0.600 | AVRG | 2.6 |
| Pyrene | 1.217 | 1.245 | 0.600 | AVRG | 2.3 |
| Butylbenzylphthalate | 0.564 | 0.584 | 0.010 | AVRG | 3.5 |
| Benzo(a)anthracene | 1.125 | 1.111 | 0.800 | AVRG | -1.2 |
| 3,3'-Dichlorobenzidine | 0.616 | 0.586 | 0.010 | AVRG | -4.9 |
| Chrysene | 0.990 | 1.006 | 0.700 | AVRG | 1.6 |
| bis(2-Ethylhexyl)phthalate | 0.549 | 0.544 | 0.010 | AVRG | -0.9 |
| Di-n-octylphthalate | 0.973 | 0.967 | 0.010 | AVRG | -0.6 |
| Benzo(b)fluoranthene | 1.124 | 1.182 | 0.700 | AVRG | 5.2 |
| Benzo(k)fluoranthene | 1.237 | 1.192 | 0.700 | AVRG | -3.6 |
| Benzo(a)pyrene | 1.034 | 1.048 | 0.700 | AVRG | 1.4 |
| Indeno(1,2,3-cd)pyrene | 1.196 | 1.249 | 0.500 | AVRG | 4.4 |
| Dibenzo(a,h)anthracene | 0.942 | 0.992 | 0.400 | AVRG | 5.3 |
| Benzo(g,h,i)perylene | 1.026 | 1.068 | 0.500 | AVRG | 4.1 |
| N-Nitrosodimethylamine | 0.832 | 0.844 | 0.010 | AVRG | 1.4 |
| Aniline | 3.956 | 3.987 | 0.010 | AVRG | 0.8 |
| Benzidine | 0.457 | 0.340 | 0.010 | AVRG | -25.6 <- |
| Retene | 0.566 | 0.588 | 0.010 | AVRG | 3.9 |
| Perylene | 1.040 | 1.044 | 0.010 | AVRG | 0.4 |
| Pyridine | 0.718 | 0.695 | 0.010 | AVRG | -3.2 |
| 1-methylnaphthalene | 0.715 | 0.740 | 0.010 | AVRG | 3.5 |

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/26/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1059

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|-------------------------------|------------------|-----------------|------------|---------------|----------------|
| Azobenzene (1,2-DP-Hydrazine) | 1.214 | 1.187 | 0.010 | AVRG | -2.2 |
| Total Benzofluoranthenes | 1.110 | 1.118 | 0.010 | AVRG | 0.7 |
| 2-Fluorophenol | 1.398 | 1.417 | 0.010 | AVRG | 1.4 |
| Phenol-d5 | 1.742 | 1.776 | 0.010 | AVRG | 2.0 |
| 2-Chlorophenol-d4 | 1.526 | 1.523 | 0.010 | AVRG | -0.2 |
| 1,2-Dichlorobenzene-d4 | 1.001 | 1.013 | 0.010 | AVRG | 1.2 |
| Nitrobenzene-d5 | 0.358 | 0.366 | 0.010 | AVRG | 2.2 |
| 2-Fluorobiphenyl | 1.386 | 1.355 | 0.010 | AVRG | -2.2 |
| 2,4,6-Tribromophenol | 0.165 | 0.172 | 0.010 | AVRG | 4.2 |
| Terphenyl-d14 | 0.762 | 0.776 | 0.010 | AVRG | 1.8 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/29/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1101

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Phenol | 1.857 | 1.950 | 0.800 | AVRG | 5.0 |
| Bis(2-Chloroethyl)ether | 1.383 | 1.329 | 0.700 | AVRG | -3.9 |
| 2-Chlorophenol | 1.640 | 1.572 | 0.800 | AVRG | -4.1 |
| 1,3-Dichlorobenzene | 1.642 | 1.651 | 0.010 | AVRG | 0.5 |
| 1,4-Dichlorobenzene | 1.603 | 1.586 | 0.010 | AVRG | -1.1 |
| 1,2-Dichlorobenzene | 1.564 | 1.583 | 0.010 | AVRG | 1.2 |
| Benzyl alcohol | 0.780 | 0.794 | 0.010 | AVRG | 1.8 |
| 2,2'-oxybis(1-Chloropropane) | 0.509 | 0.499 | 0.010 | AVRG | -2.0 |
| 2-Methylphenol | 1.464 | 1.407 | 0.700 | AVRG | -3.9 |
| Hexachloroethane | 0.622 | 0.651 | 0.300 | AVRG | 4.7 |
| N-Nitroso-di-n-propylamine | 0.862 | 0.806 | 0.500 | AVRG | -6.5 |
| 4-Methylphenol | 1.527 | 1.407 | 0.600 | AVRG | -7.8 |
| Nitrobenzene | 0.352 | 0.333 | 0.200 | AVRG | -5.4 |
| Isophorone | 0.665 | 0.653 | 0.400 | AVRG | -1.8 |
| 2-Nitrophenol | 0.222 | 0.222 | 0.100 | AVRG | 0.0 |
| 2,4-Dimethylphenol | 0.352 | 0.350 | 0.200 | AVRG | -0.6 |
| Bis(2-Chloroethoxy)methane | 0.396 | 0.378 | 0.300 | AVRG | -4.5 |
| 2,4-Dichlorophenol | 0.339 | 0.339 | 0.200 | AVRG | 0.0 |
| 1,2,4-Trichlorobenzene | 0.322 | 0.327 | 0.010 | AVRG | 1.6 |
| Naphthalene | 1.008 | 1.013 | 0.700 | AVRG | 0.5 |
| Benzoic acid | 20.00 | 19.65 | 0.010 | 2ORDR | -1.8 |
| 4-Chloroaniline | 0.449 | 0.430 | 0.010 | AVRG | -4.2 |
| Hexachlorobutadiene | 0.173 | 0.179 | 0.010 | AVRG | 3.5 |
| 4-Chloro-3-methylphenol | 0.304 | 0.311 | 0.200 | AVRG | 2.3 |
| 2-Methylnaphthalene | 0.701 | 0.726 | 0.400 | AVRG | 3.6 |
| Hexachlorocyclopentadiene | 10.00 | 7.483 | 0.050 | 2ORDR | -25.2 <- |
| 2,4,6-Trichlorophenol | 0.394 | 0.404 | 0.200 | AVRG | 2.5 |
| 2,4,5-Trichlorophenol | 0.422 | 0.445 | 0.200 | AVRG | 5.4 |
| 2-Chloronaphthalene | 1.185 | 1.153 | 0.800 | AVRG | -2.7 |
| 2-Nitroaniline | 0.283 | 0.275 | 0.010 | AVRG | -2.8 |
| Acenaphthylene | 1.796 | 1.940 | 0.900 | AVRG | 8.0 |
| Dimethylphthalate | 1.229 | 1.222 | 0.010 | AVRG | -0.6 |
| 2,6-Dinitrotoluene | 0.299 | 0.304 | 0.200 | AVRG | 1.7 |
| Acenaphthene | 1.084 | 1.071 | 0.900 | AVRG | -1.2 |
| 3-Nitroaniline | 0.338 | 0.315 | 0.010 | AVRG | -6.8 |
| 2,4-Dinitrophenol | 20.00 | 15.18 | 0.010 | 2ORDR | -24.1 <- |
| Dibenzofuran | 1.587 | 1.594 | 0.800 | AVRG | 0.4 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/29/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1101

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|----------------------------|------------------|-----------------|------------|---------------|----------------|
| 4-Nitrophenol | 0.130 | | 0.010 | AVRG | |
| 2,4-Dinitrotoluene | 0.386 | 0.405 | 0.200 | AVRG | 4.9 |
| Fluorene | 1.216 | 1.388 | 0.900 | AVRG | 14.1 |
| 4-Chlorophenyl-phenylether | 0.578 | 0.676 | 0.400 | AVRG | 17.0 |
| Diethylphthalate | 1.198 | 1.217 | 0.010 | AVRG | 1.6 |
| 4-Nitroaniline | 0.345 | 0.296 | 0.010 | AVRG | -14.2 |
| 4,6-Dinitro-2-methylphenol | 0.159 | 0.168 | 0.010 | AVRG | 5.7 |
| N-Nitrosodiphenylamine (1) | 0.538 | 0.520 | 0.010 | AVRG | -3.3 |
| 4-Bromophenyl-phenylether | 0.214 | 0.213 | 0.100 | AVRG | -0.5 |
| Hexachlorobenzene | 0.247 | 0.240 | 0.100 | AVRG | -2.8 |
| Pentachlorophenol | 10.00 | 9.609 | 0.050 | 2ORDR | -3.9 |
| Phenanthrene | 1.031 | 1.017 | 0.700 | AVRG | -1.4 |
| Anthracene | 1.077 | 1.095 | 0.700 | AVRG | 1.7 |
| Carbazole | 0.997 | 1.034 | 0.010 | AVRG | 3.7 |
| Di-n-butylphthalate | 1.403 | 1.460 | 0.010 | AVRG | 4.1 |
| Fluoranthene | 1.171 | 1.189 | 0.600 | AVRG | 1.5 |
| Pyrene | 1.217 | 1.244 | 0.600 | AVRG | 2.2 |
| Butylbenzylphthalate | 0.564 | 0.573 | 0.010 | AVRG | 1.6 |
| Benzo (a) anthracene | 1.125 | 1.114 | 0.800 | AVRG | -1.0 |
| 3,3'-Dichlorobenzidine | 0.616 | 0.650 | 0.010 | AVRG | 5.5 |
| Chrysene | 0.990 | 0.992 | 0.700 | AVRG | 0.2 |
| bis(2-Ethylhexyl)phthalate | 0.549 | 0.547 | 0.010 | AVRG | -0.4 |
| Di-n-octylphthalate | 0.973 | 0.961 | 0.010 | AVRG | -1.2 |
| Benzo (b) fluoranthene | 1.124 | 1.056 | 0.700 | AVRG | -6.0 |
| Benzo (k) fluoranthene | 1.237 | 1.252 | 0.700 | AVRG | 1.2 |
| Benzo (a) pyrene | 1.034 | 1.016 | 0.700 | AVRG | -1.7 |
| Indeno (1,2,3-cd) pyrene | 1.196 | 1.246 | 0.500 | AVRG | 4.2 |
| Dibenzo (a,h) anthracene | 0.942 | 0.999 | 0.400 | AVRG | 6.0 |
| Benzo (g,h,i) perylene | 1.026 | 1.061 | 0.500 | AVRG | 3.4 |
| N-Nitrosodimethylamine | 0.832 | 0.811 | 0.010 | AVRG | -2.5 |
| Aniline | 3.956 | 3.504 | 0.010 | AVRG | -11.4 |
| Benzidine | 0.457 | 0.426 | 0.010 | AVRG | -6.8 |
| Retene | 0.566 | 0.579 | 0.010 | AVRG | 2.3 |
| Perylene | 1.040 | 1.014 | 0.010 | AVRG | -2.5 |
| Pyridine | 0.718 | 0.661 | 0.010 | AVRG | -7.9 |
| 1-methylnaphthalene | 0.715 | 0.750 | 0.010 | AVRG | 4.9 |

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/29/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1101

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Azobenzene (1,2-DP-Hydrazine | 1.214 | 1.179 | 0.010 | AVRG | -2.9 |
| Total Benzofluoranthenes | 1.110 | 1.089 | 0.010 | AVRG | -1.9 |
| 2-Fluorophenol | 1.398 | 1.341 | 0.010 | AVRG | -4.1 |
| Phenol-d5 | 1.742 | 1.645 | 0.010 | AVRG | -5.6 |
| 2-Chlorophenol-d4 | 1.526 | 1.482 | 0.010 | AVRG | -2.9 |
| 1,2-Dichlorobenzene-d4 | 1.001 | 1.015 | 0.010 | AVRG | 1.4 |
| Nitrobenzene-d5 | 0.358 | 0.344 | 0.010 | AVRG | -3.9 |
| 2-Fluorobiphenyl | 1.386 | 1.379 | 0.010 | AVRG | -0.5 |
| 2,4,6-Tribromophenol | 0.165 | 0.176 | 0.010 | AVRG | 6.7 |
| Terphenyl-d14 | 0.762 | 0.749 | 0.010 | AVRG | -1.7 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/30/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1227

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Phenol | 1.857 | 1.912 | 0.800 | AVRG | 3.0 |
| Bis(2-Chloroethyl) ether | 1.383 | 1.312 | 0.700 | AVRG | -5.1 |
| 2-Chlorophenol | 1.640 | 1.555 | 0.800 | AVRG | -5.2 |
| 1,3-Dichlorobenzene | 1.642 | 1.629 | 0.010 | AVRG | -0.8 |
| 1,4-Dichlorobenzene | 1.603 | 1.584 | 0.010 | AVRG | -1.2 |
| 1,2-Dichlorobenzene | 1.564 | 1.557 | 0.010 | AVRG | -0.4 |
| Benzyl alcohol | 0.780 | 0.799 | 0.010 | AVRG | 2.4 |
| 2,2'-oxybis(1-Chloropropane) | 0.509 | 0.506 | 0.010 | AVRG | -0.6 |
| 2-Methylphenol | 1.464 | 1.374 | 0.700 | AVRG | -6.1 |
| Hexachloroethane | 0.622 | 0.638 | 0.300 | AVRG | 2.6 |
| N-Nitroso-di-n-propylamine | 0.862 | 0.808 | 0.500 | AVRG | -6.3 |
| 4-Methylphenol | 1.527 | 1.376 | 0.600 | AVRG | -9.9 |
| Nitrobenzene | 0.352 | 0.326 | 0.200 | AVRG | -7.4 |
| Isophorone | 0.665 | 0.715 | 0.400 | AVRG | 7.5 |
| 2-Nitrophenol | 0.222 | 0.221 | 0.100 | AVRG | -0.4 |
| 2,4-Dimethylphenol | 0.352 | 0.340 | 0.200 | AVRG | -3.4 |
| Bis(2-Chloroethoxy)methane | 0.396 | 0.378 | 0.300 | AVRG | -4.5 |
| 2,4-Dichlorophenol | 0.339 | 0.328 | 0.200 | AVRG | -3.2 |
| 1,2,4-Trichlorobenzene | 0.322 | 0.318 | 0.010 | AVRG | -1.2 |
| Naphthalene | 1.008 | 1.009 | 0.700 | AVRG | 0.1 |
| Benzoic acid | 20.00 | 10.23 | 0.010 | 2ORDR | -48.8 <- |
| 4-Chloroaniline | 0.449 | 0.435 | 0.010 | AVRG | -3.1 |
| Hexachlorobutadiene | 0.173 | 0.179 | 0.010 | AVRG | 3.5 |
| 4-Chloro-3-methylphenol | 0.304 | 0.312 | 0.200 | AVRG | 2.6 |
| 2-Methylnaphthalene | 0.701 | 0.714 | 0.400 | AVRG | 1.8 |
| Hexachlorocyclopentadiene | 10.00 | 6.336 | 0.050 | 2ORDR | -36.6 <- |
| 2,4,6-Trichlorophenol | 0.394 | 0.414 | 0.200 | AVRG | 5.1 |
| 2,4,5-Trichlorophenol | 0.422 | 0.459 | 0.200 | AVRG | 8.8 |
| 2-Chloronaphthalene | 1.185 | 1.210 | 0.800 | AVRG | 2.1 |
| 2-Nitroaniline | 0.283 | 0.283 | 0.010 | AVRG | 0.0 |
| Acenaphthylene | 1.796 | 1.952 | 0.900 | AVRG | 8.7 |
| Dimethylphthalate | 1.229 | 1.247 | 0.010 | AVRG | 1.5 |
| 2,6-Dinitrotoluene | 0.299 | 0.312 | 0.200 | AVRG | 4.3 |
| Acenaphthene | 1.084 | 1.106 | 0.900 | AVRG | 2.0 |
| 3-Nitroaniline | 0.338 | 0.329 | 0.010 | AVRG | -2.7 |
| 2,4-Dinitrophenol | 20.00 | 5.842 | 0.010 | 2ORDR | -70.8 <- |
| Dibenzofuran | 1.587 | 1.624 | 0.800 | AVRG | 2.3 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/30/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1227

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|----------------------------|------------------|-----------------|------------|---------------|----------------|
| 4-Nitrophenol | 0.130 | | 0.010 | AVRG | |
| 2,4-Dinitrotoluene | 0.386 | 0.416 | 0.200 | AVRG | 7.8 |
| Fluorene | 1.216 | 1.361 | 0.900 | AVRG | 11.9 |
| 4-Chlorophenyl-phenylether | 0.578 | 0.693 | 0.400 | AVRG | 19.9 |
| Diethylphthalate | 1.198 | 1.241 | 0.010 | AVRG | 3.6 |
| 4-Nitroaniline | 0.345 | 0.339 | 0.010 | AVRG | -1.7 |
| 4,6-Dinitro-2-methylphenol | 0.159 | 0.116 | 0.010 | AVRG | -27.0 <- |
| N-Nitrosodiphenylamine (1) | 0.538 | 0.529 | 0.010 | AVRG | -1.7 |
| 4-Bromophenyl-phenylether | 0.214 | 0.215 | 0.100 | AVRG | 0.5 |
| Hexachlorobenzene | 0.247 | 0.240 | 0.100 | AVRG | -2.8 |
| Pentachlorophenol | 10.00 | 9.754 | 0.050 | 2ORDR | -2.5 |
| Phenanthrene | 1.031 | 1.028 | 0.700 | AVRG | -0.3 |
| Anthracene | 1.077 | 1.135 | 0.700 | AVRG | 5.4 |
| Carbazole | 0.997 | 1.083 | 0.010 | AVRG | 8.6 |
| Di-n-butylphthalate | 1.403 | 1.492 | 0.010 | AVRG | 6.3 |
| Fluoranthene | 1.171 | 1.255 | 0.600 | AVRG | 7.2 |
| Pyrene | 1.217 | 1.220 | 0.600 | AVRG | 0.2 |
| Butylbenzylphthalate | 0.564 | 0.582 | 0.010 | AVRG | 3.2 |
| Benzo (a) anthracene | 1.125 | 1.093 | 0.800 | AVRG | -2.8 |
| 3,3'-Dichlorobenzidine | 0.616 | 0.664 | 0.010 | AVRG | 7.8 |
| Chrysene | 0.990 | 0.982 | 0.700 | AVRG | -0.8 |
| bis(2-Ethylhexyl)phthalate | 0.549 | 0.533 | 0.010 | AVRG | -2.9 |
| Di-n-octylphthalate | 0.973 | 0.958 | 0.010 | AVRG | -1.5 |
| Benzo (b) fluoranthene | 1.124 | 1.180 | 0.700 | AVRG | 5.0 |
| Benzo (k) fluoranthene | 1.237 | 1.207 | 0.700 | AVRG | -2.4 |
| Benzo (a) pyrene | 1.034 | 1.041 | 0.700 | AVRG | 0.7 |
| Indeno (1,2,3-cd) pyrene | 1.196 | 1.217 | 0.500 | AVRG | 1.8 |
| Dibenzo (a,h) anthracene | 0.942 | 0.985 | 0.400 | AVRG | 4.6 |
| Benzo (g,h,i) perylene | 1.026 | 1.029 | 0.500 | AVRG | 0.3 |
| N-Nitrosodimethylamine | 0.832 | 0.815 | 0.010 | AVRG | -2.0 |
| Aniline | 3.956 | 3.518 | 0.010 | AVRG | -11.1 |
| Benzidine | 0.457 | 0.452 | 0.010 | AVRG | -1.1 |
| Retene | 0.566 | 0.563 | 0.010 | AVRG | -0.5 |
| Perylene | 1.040 | 1.043 | 0.010 | AVRG | 0.3 |
| Pyridine | 0.718 | 0.674 | 0.010 | AVRG | -6.1 |
| 1-methylnaphthalene | 0.715 | 0.746 | 0.010 | AVRG | 4.3 |

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Instrument ID: NT10

Cont. Calib. Date: 05/30/12

Init. Calib. Date: 05/26/12

Cont. Calib. Time: 1227

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Azobenzene (1,2-DP-Hydrazine | 1.214 | 1.217 | 0.010 | AVRG | 0.2 |
| Total Benzofluoranthenes | 1.110 | 1.125 | 0.010 | AVRG | 1.4 |
| 2-Fluorophenol | 1.398 | 1.316 | 0.010 | AVRG | -5.9 |
| Phenol-d5 | 1.742 | 1.596 | 0.010 | AVRG | -8.4 |
| 2-Chlorophenol-d4 | 1.526 | 1.444 | 0.010 | AVRG | -5.4 |
| 1,2-Dichlorobenzene-d4 | 1.001 | 1.024 | 0.010 | AVRG | 2.3 |
| Nitrobenzene-d5 | 0.358 | 0.341 | 0.010 | AVRG | -4.7 |
| 2-Fluorobiphenyl | 1.386 | 1.400 | 0.010 | AVRG | 1.0 |
| 2,4,6-Tribromophenol | 0.165 | 0.176 | 0.010 | AVRG | 6.7 |
| Terphenyl-d14 | 0.762 | 0.746 | 0.010 | AVRG | -2.1 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/26/12

| | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # | |
|-------------|---------------------|--------|---------------------|--------|---------------------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | 189516 | 8.86 | 730932 | 11.50 | 420698 | 15.37 | |
| UPPER LIMIT | 379032 | | 1461864 | | 841396 | | |
| LOWER LIMIT | 94758 | | 365466 | | 210349 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| CCAL | 189516 | 8.86 | 730932 | 11.50 | 420698 | 15.37 | |
| UPPER LIMIT | | 9.36 | | 12.00 | | 15.87 | |
| LOWER LIMIT | | 8.36 | | 11.00 | | 14.87 | |
| 01 | UU52MBS1 | 192270 | 8.86 | 755212 | 11.50 | 409923 | 15.36 |
| 02 | UU52LCSS1 | 180960 | 8.86 | 713226 | 11.50 | 402827 | 15.37 |
| 03 | MS001-SS-120 | 192479 | 8.86 | 766868 | 11.50 | 424558 | 15.37 |
| 04 | MS101-SS-120 | 191331 | 8.86 | 774622 | 11.50 | 431955 | 15.38 |
| 05 | MS002-SS-120 | 189793 | 8.86 | 762840 | 11.50 | 421087 | 15.38 |
| 06 | MS003-SS-120 | 195684 | 8.86 | 781696 | 11.50 | 433584 | 15.38 |
| 07 | MS004-SS-120 | 197248 | 8.86 | 788940 | 11.50 | 430674 | 15.38 |
| 08 | MS005-SS-120 | 190373 | 8.86 | 742174 | 11.51 | 431594 | 15.39 |
| 09 | MS006-SS-120 | 189614 | 8.86 | 736251 | 11.51 | 426687 | 15.38 |
| 10 | MS007-SS-120 | 194227 | 8.86 | 756334 | 11.51 | 437900 | 15.39 |
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IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/26/12

| | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # | |
|-------------|---------------------|--------|---------------------|--------|---------------------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | 638950 | 18.63 | 645065 | 23.71 | 650033 | 26.10 | |
| UPPER LIMIT | 1277900 | | 1290130 | | 1300066 | | |
| LOWER LIMIT | 319475 | | 322532 | | 325016 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| CCAL | 638950 | 18.63 | 645065 | 23.71 | 650033 | 26.10 | |
| UPPER LIMIT | | 19.13 | | 24.21 | | 26.60 | |
| LOWER LIMIT | | 18.13 | | 23.21 | | 25.60 | |
| 01 | UU52MBS1 | 652568 | 18.63 | 628746 | 23.70 | 575994 | 26.10 |
| 02 | UU52LCSS1 | 613172 | 18.63 | 610564 | 23.70 | 601200 | 26.10 |
| 03 | MS001-SS-120 | 586032 | 18.64 | 664578 | 23.71 | 673821 | 26.11 |
| 04 | MS101-SS-120 | 601035 | 18.64 | 668327 | 23.72 | 667061 | 26.12 |
| 05 | MS002-SS-120 | 644641 | 18.64 | 673614 | 23.72 | 665077 | 26.12 |
| 06 | MS003-SS-120 | 608068 | 18.64 | 705866 | 23.72 | 688484 | 26.12 |
| 07 | MS004-SS-120 | 660353 | 18.64 | 700903 | 23.72 | 683374 | 26.12 |
| 08 | MS005-SS-120 | 643967 | 18.66 | 721119 | 23.73 | 669438 | 26.14 |
| 09 | MS006-SS-120 | 605251 | 18.65 | 696152 | 23.72 | 658886 | 26.13 |
| 10 | MS007-SS-120 | 626572 | 18.66 | 703620 | 23.73 | 665896 | 26.13 |
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IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = 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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/26/12

| | IS7 AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-------------|---------------|---------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 1016118 | 24.79 | | | | |
| UPPER LIMIT | 2032236 | | | | | |
| LOWER LIMIT | 508059 | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 1016118 | 24.79 | | | | |
| UPPER LIMIT | | 25.29 | | | | |
| LOWER LIMIT | | 24.29 | | | | |
| 01 | UU52MBS1 | 911710 | 24.79 | | | |
| 02 | UU52LCSS1 | 927500 | 24.79 | | | |
| 03 | MS001-SS-120 | 1081857 | 24.79 | | | |
| 04 | MS101-SS-120 | 1085453 | 24.80 | | | |
| 05 | MS002-SS-120 | 1081717 | 24.80 | | | |
| 06 | MS003-SS-120 | 1095300 | 24.80 | | | |
| 07 | MS004-SS-120 | 1104559 | 24.80 | | | |
| 08 | MS005-SS-120 | 1107167 | 24.81 | | | |
| 09 | MS006-SS-120 | 1081407 | 24.81 | | | |
| 10 | MS007-SS-120 | 1121633 | 24.81 | | | |
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IS7 = Di-n-octylphthalate-d4

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/29/12

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 189516 | 8.86 | 730932 | 11.50 | 420698 | 15.37 |
| UPPER LIMIT | 379032 | | 1461864 | | 841396 | |
| LOWER LIMIT | 94758 | | 365466 | | 210349 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 201464 | 8.86 | 781105 | 11.51 | 450943 | 15.39 |
| UPPER LIMIT | | 9.36 | | 12.01 | | 15.89 |
| LOWER LIMIT | | 8.36 | | 11.01 | | 14.89 |
| 01 MS007-SS-120 | 194036 | 8.87 | 746578 | 11.51 | 430169 | 15.39 |
| 02 MS007-SS-120 | 198613 | 8.87 | 774430 | 11.51 | 446161 | 15.39 |
| 03 MS008-SS-120 | 197513 | 8.86 | 791554 | 11.51 | 435113 | 15.39 |
| 04 MS009-SS-120 | 192942 | 8.87 | 774858 | 11.51 | 438714 | 15.39 |
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IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/29/12

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | | |
|-------------|--------------|--------|-----------|--------|-----------|--------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | 638950 | 18.63 | 645065 | 23.71 | 650033 | 26.10 | |
| UPPER LIMIT | 1277900 | | 1290130 | | 1300066 | | |
| LOWER LIMIT | 319475 | | 322532 | | 325016 | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| CCAL | 697664 | 18.65 | 705871 | 23.73 | 704858 | 26.13 | |
| UPPER LIMIT | | 19.15 | | 24.23 | | 26.63 | |
| LOWER LIMIT | | 18.15 | | 23.23 | | 25.63 | |
| 01 | MS007-SS-120 | 648205 | 18.66 | 694641 | 23.73 | 687334 | 26.13 |
| 02 | MS007-SS-120 | 635278 | 18.66 | 714204 | 23.73 | 706143 | 26.13 |
| 03 | MS008-SS-120 | 618705 | 18.66 | 705752 | 23.73 | 690654 | 26.13 |
| 04 | MS009-SS-120 | 619554 | 18.66 | 704418 | 23.73 | 689542 | 26.13 |
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IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = 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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/29/12

| | IS7 AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-----------------|---------------|-------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 1016118 | 24.79 | | | | |
| UPPER LIMIT | 2032236 | | | | | |
| LOWER LIMIT | 508059 | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 1102875 | 24.80 | | | | |
| UPPER LIMIT | | 25.30 | | | | |
| LOWER LIMIT | | 24.30 | | | | |
| 01 MS007-SS-120 | 1111139 | 24.81 | | | | |
| 02 MS007-SS-120 | 1120932 | 24.81 | | | | |
| 03 MS008-SS-120 | 1101771 | 24.81 | | | | |
| 04 MS009-SS-120 | 1108887 | 24.81 | | | | |
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IS7 = Di-n-octylphthalate-d4

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/30/12

| | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 189516 | 8.86 | 730932 | 11.50 | 420698 | 15.37 |
| UPPER LIMIT | 379032 | | 1461864 | | 841396 | |
| LOWER LIMIT | 94758 | | 365466 | | 210349 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 191858 | 8.86 | 750130 | 11.51 | 423103 | 15.39 |
| UPPER LIMIT | | 9.36 | | 12.01 | | 15.89 |
| LOWER LIMIT | | 8.36 | | 11.01 | | 14.89 |
| 01 MS006-SS-120 | 186026 | 8.87 | 733531 | 11.51 | 426946 | 15.39 |
| 02 | | | | | | |
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IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/30/12

| | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 638950 | 18.63 | 645065 | 23.71 | 650033 | 26.10 |
| UPPER LIMIT | 1277900 | | 1290130 | | 1300066 | |
| LOWER LIMIT | 319475 | | 322532 | | 325016 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 662850 | 18.66 | 713203 | 23.73 | 700277 | 26.13 |
| UPPER LIMIT | | 19.16 | | 24.23 | | 26.63 |
| LOWER LIMIT | | 18.16 | | 23.23 | | 25.63 |
| 01 MS006-SS-120 | 591988 | 18.66 | 709441 | 23.73 | 662093 | 26.13 |
| 02 | | | | | | |
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IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = 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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No: UU52

Project: JELD WEN MAULSBY MARSH

Ical Midpoint ID: IC0526A

Ical Date: 05/26/12

Instrument ID: NT10

Cont. Cal Date: 05/30/12

| | IS7 AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-----------------|---------------|-------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 1016118 | 24.79 | | | | |
| UPPER LIMIT | 2032236 | | | | | |
| LOWER LIMIT | 508059 | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 1121736 | 24.81 | | | | |
| UPPER LIMIT | | 25.31 | | | | |
| LOWER LIMIT | | 24.31 | | | | |
| 01 MS006-SS-120 | 1089932 | 24.81 | | | | |
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IS7 = Di-n-octylphthalate-d4

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.

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Extraction Method: SW3520C
Page 1 of 1

Sample ID: MS-SSRB-120515
SAMPLE

Lab Sample ID: UU62J
LIMS ID: 12-8937
Matrix: Water
Data Release Authorized: *MW*
Reported: 05/30/12

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Date Extracted: 05/21/12
Date Analyzed: 05/24/12 13:40
Instrument/Analyst: NT6/JZ

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

| CAS Number | Analyte | MDL | RL | Result |
|-----------------|----------------------------|-------------|------------|--------------|
| 108-95-2 | Phenol | 0.52 | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 0.52 | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 5.1 | 10 | < 10 U |
| 91-20-3 | Naphthalene | 0.52 | 1.0 | < 1.0 U |
| 91-57-6 | 2-Methylnaphthalene | 0.48 | 1.0 | < 1.0 U |
| 131-11-3 | Dimethylphthalate | 0.53 | 1.0 | 0.9 J |
| 208-96-8 | Acenaphthylene | 0.48 | 1.0 | < 1.0 U |
| 83-32-9 | Acenaphthene | 0.55 | 1.0 | < 1.0 U |
| 132-64-9 | Dibenzofuran | 0.48 | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 0.56 | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 2.4 | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 0.56 | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 0.31 | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 0.53 | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 0.54 | 1.0 | < 1.0 U |
| 206-44-0 | Fluoranthene | 0.52 | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 0.55 | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 0.56 | 1.0 | < 1.0 U |
| 56-55-3 | Benzo(a)anthracene | 0.52 | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.9 | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 0.55 | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 0.51 | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 0.48 | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.48 | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 0.48 | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 0.55 | 1.0 | < 1.0 U |
| 483-65-8 | Retene | 0.44 | 1.0 | < 1.0 U |
| TOTBFA | Total Benzofluoranthenes | 0.48 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 73.2% | 2-Fluorobiphenyl | 67.6% |
| d14-p-Terphenyl | 82.8% | d4-1,2-Dichlorobenzene | 60.0% |
| d5-Phenol | 73.1% | 2-Fluorophenol | 76.3% |
| 2,4,6-Tribromophenol | 78.7% | d4-2-Chlorophenol | 72.8% |

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Extraction Method: SW3520C
Page 1 of 1

Sample ID: MS-SSFB-120515
SAMPLE

Lab Sample ID: UU62K
LIMS ID: 12-8938
Matrix: Water
Data Release Authorized: *MW*
Reported: 05/30/12

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Date Extracted: 05/21/12
Date Analyzed: 05/24/12 14:14
Instrument/Analyst: NT6/JZ

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

| CAS Number | Analyte | MDL | RL | Result |
|-----------------|----------------------------|-------------|------------|--------------|
| 108-95-2 | Phenol | 0.52 | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 0.52 | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 5.1 | 10 | < 10 U |
| 91-20-3 | Naphthalene | 0.52 | 1.0 | < 1.0 U |
| 91-57-6 | 2-Methylnaphthalene | 0.48 | 1.0 | < 1.0 U |
| 131-11-3 | Dimethylphthalate | 0.53 | 1.0 | 0.8 J |
| 208-96-8 | Acenaphthylene | 0.48 | 1.0 | < 1.0 U |
| 83-32-9 | Acenaphthene | 0.55 | 1.0 | < 1.0 U |
| 132-64-9 | Dibenzofuran | 0.48 | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 0.56 | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 2.4 | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 0.56 | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 0.31 | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 0.53 | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 0.54 | 1.0 | 3.7 |
| 206-44-0 | Fluoranthene | 0.52 | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 0.55 | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 0.56 | 1.0 | < 1.0 U |
| 56-55-3 | Benzo(a)anthracene | 0.52 | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.9 | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 0.55 | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 0.51 | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 0.48 | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.48 | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 0.48 | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 0.55 | 1.0 | < 1.0 U |
| 483-65-8 | Retene | 0.44 | 1.0 | < 1.0 U |
| TOTBFA | Total Benzofluoranthenes | 0.48 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 69.6% | 2-Fluorobiphenyl | 62.8% |
| d14-p-Terphenyl | 79.2% | d4-1,2-Dichlorobenzene | 57.2% |
| d5-Phenol | 69.9% | 2-Fluorophenol | 68.5% |
| 2,4,6-Tribromophenol | 75.2% | d4-2-Chlorophenol | 68.8% |

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01

| Client ID | NBZ | FBP | TPH | DCB | PHL | 2FP | TBP | 2CP | TOT | OUT |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| MB-052112 | 72.8% | 68.4% | 80.8% | 59.2% | 73.3% | 75.5% | 72.3% | 72.3% | 0 | |
| LCS-052112 | 70.0% | 70.0% | 80.0% | 55.6% | 75.7% | 69.1% | 86.4% | 69.9% | 0 | |
| LCSD-052112 | 66.0% | 66.4% | 80.8% | 53.2% | 71.5% | 65.6% | 84.3% | 65.9% | 0 | |
| MS-SSRB-120515 | 73.2% | 67.6% | 82.8% | 60.0% | 73.1% | 76.3% | 78.7% | 72.8% | 0 | |
| MS-SSFB-120515 | 69.6% | 62.8% | 79.2% | 57.2% | 69.9% | 68.5% | 75.2% | 68.8% | 0 | |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------------|---------------|-----------|
| (NBZ) = d5-Nitrobenzene | (50-100) | (34-101) |
| (FBP) = 2-Fluorobiphenyl | (51-100) | (38-100) |
| (TPH) = d14-p-Terphenyl | (54-117) | (27-122) |
| (DCB) = d4-1,2-Dichlorobenzene | (40-100) | (27-100) |
| (PHL) = d5-Phenol | (15-121) | (16-106) |
| (2FP) = 2-Fluorophenol | (33-100) | (23-100) |
| (TBP) = 2,4,6-Tribromophenol | (46-125) | (31-128) |
| (2CP) = d4-2-Chlorophenol | (46-102) | (33-100) |

Prep Method: SW3520C
Log Number Range: 12-8937 to 12-8938

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 1Sample ID: LCS-052112
LCS/LCSDLab Sample ID: LCS-052112
LIMS ID: 12-8937
Matrix: Water
Data Release Authorized: *mw*
Reported: 05/30/12QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Mauisby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Date Extracted LCS/LCSD: 05/21/12

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/24/12 11:59
LCSD: 05/24/12 12:33

Final Extract Volume LCS: 0.50 mL

LCSD: 0.50 mL

Instrument/Analyst LCS: NT6/JZ
LCSD: NT6/JZ

Dilution Factor LCS: 1.00

LCSD: 1.00

GPC Cleanup: NO

| Analyte | Spike | | LCS | | Spike | | LCSD | | RPD |
|----------------------------|-------|-----------|----------|------|------------|----------|------|--|-----|
| | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD | | |
| Phenol | 16.6 | 25.0 | 66.4% | 16.1 | 25.0 | 64.4% | 3.1% | | |
| 4-Methylphenol | 32.1 | 50.0 | 64.2% | 31.2 | 50.0 | 62.4% | 2.8% | | |
| Benzoic Acid | 102 | 138 | 73.9% | 103 | 138 | 74.6% | 1.0% | | |
| Naphthalene | 15.2 | 25.0 | 60.8% | 14.9 | 25.0 | 59.6% | 2.0% | | |
| 2-Methylnaphthalene | 13.9 | 25.0 | 55.6% | 14.0 | 25.0 | 56.0% | 0.7% | | |
| Dimethylphthalate | 21.8 | 25.0 | 87.2% | 22.1 | 25.0 | 88.4% | 1.4% | | |
| Acenaphthylene | 18.3 | 25.0 | 73.2% | 18.0 | 25.0 | 72.0% | 1.7% | | |
| Acenaphthene | 17.2 | 25.0 | 68.8% | 17.0 | 25.0 | 68.0% | 1.2% | | |
| Dibenzofuran | 17.6 | 25.0 | 70.4% | 17.2 | 25.0 | 68.8% | 2.3% | | |
| Fluorene | 18.6 | 25.0 | 74.4% | 18.3 | 25.0 | 73.2% | 1.6% | | |
| Pentachlorophenol | 60.6 | 75.0 | 80.8% | 62.5 | 75.0 | 83.3% | 3.1% | | |
| Phenanthrene | 19.8 | 25.0 | 79.2% | 19.9 | 25.0 | 79.6% | 0.5% | | |
| Carbazole | 22.4 | 25.0 | 89.6% | 22.1 | 25.0 | 88.4% | 1.3% | | |
| Anthracene | 19.2 | 25.0 | 76.8% | 19.4 | 25.0 | 77.6% | 1.0% | | |
| Di-n-Butylphthalate | 23.2 | 25.0 | 92.8% | 23.3 | 25.0 | 93.2% | 0.4% | | |
| Fluoranthene | 21.6 | 25.0 | 86.4% | 21.3 | 25.0 | 85.2% | 1.4% | | |
| Pyrene | 19.3 | 25.0 | 77.2% | 19.9 | 25.0 | 79.6% | 3.1% | | |
| Butylbenzylphthalate | 21.0 | 25.0 | 84.0% | 21.6 | 25.0 | 86.4% | 2.8% | | |
| Benzo(a)anthracene | 18.4 | 25.0 | 73.6% | 18.6 | 25.0 | 74.4% | 1.1% | | |
| bis(2-Ethylhexyl)phthalate | 21.3 | 25.0 | 85.2% | 21.6 | 25.0 | 86.4% | 1.4% | | |
| Chrysene | 19.9 | 25.0 | 79.6% | 20.0 | 25.0 | 80.0% | 0.5% | | |
| Di-n-Octyl phthalate | 21.6 | 25.0 | 86.4% | 21.5 | 25.0 | 86.0% | 0.5% | | |
| Benzo(a)pyrene | 18.2 | 25.0 | 72.8% | 18.1 | 25.0 | 72.4% | 0.6% | | |
| Indeno(1,2,3-cd)pyrene | 18.2 | 25.0 | 72.8% | 18.9 | 25.0 | 75.6% | 3.8% | | |
| Dibenz(a,h)anthracene | 17.9 | 25.0 | 71.6% | 19.2 | 25.0 | 76.8% | 7.0% | | |
| Benzo(g,h,i)perylene | 19.0 | 25.0 | 76.0% | 19.4 | 25.0 | 77.6% | 2.1% | | |
| Total Benzofluoranthenes | 39.7 | 50.0 | 79.4% | 39.2 | 50.0 | 78.4% | 1.3% | | |

Semivolatile Surrogate Recovery

| | LCS | LCSD |
|------------------------|-------|-------|
| d5-Nitrobenzene | 70.0% | 66.0% |
| 2-Fluorobiphenyl | 70.0% | 66.4% |
| d14-p-Terphenyl | 80.0% | 80.8% |
| d4-1,2-Dichlorobenzene | 55.6% | 53.2% |
| d5-Phenol | 75.7% | 71.5% |
| 2-Fluorophenol | 69.1% | 65.6% |
| 2,4,6-Tribromophenol | 86.4% | 84.3% |
| d4-2-Chlorophenol | 69.9% | 65.9% |

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

| |
|----------|
| UU62MBW1 |
|----------|

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No: UU62

Project: JELD WEN - MAULSBY M

Lab File ID: 05241202

Date Extracted: 05/21/12

Instrument ID: NT6

Date Analyzed: 05/24/12

Matrix: LIQUID

Time Analyzed: 1126

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| | ===== | ===== | ===== | ===== |
| 01 | UU62LCSW1 | UU62LCSW1 | 05241203 | 05/24/12 |
| 02 | UU62LCSDW1 | UU62LCSDW1 | 05241204 | 05/24/12 |
| 03 | MS-SSRB-120515 | UU62J | 05241206 | 05/24/12 |
| 04 | MS-SSFB-120515 | UU62K | 05241207 | 05/24/12 |
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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Extraction Method: SW3520C
 Page 1 of 1

Sample ID: MB-052112
METHOD BLANK

Lab Sample ID: MB-052112
 LIMS ID: 12-8937
 Matrix: Water
 Data Release Authorized: *MW*
 Reported: 05/30/12

QC Report No: UU62-Anchor QEA, LLC.
 Project: Jeld Wen - Maulsby Marsh
 120909-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/21/12
 Date Analyzed: 05/24/12 11:26
 Instrument/Analyst: NT6/JZ

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

| CAS Number | Analyte | MDL | RL | Result |
|------------|----------------------------|------|-----|---------|
| 108-95-2 | Phenol | 0.52 | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 0.52 | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 5.1 | 10 | < 10 U |
| 91-20-3 | Naphthalene | 0.52 | 1.0 | < 1.0 U |
| 91-57-6 | 2-Methylnaphthalene | 0.48 | 1.0 | < 1.0 U |
| 131-11-3 | Dimethylphthalate | 0.53 | 1.0 | < 1.0 U |
| 208-96-8 | Acenaphthylene | 0.48 | 1.0 | < 1.0 U |
| 83-32-9 | Acenaphthene | 0.55 | 1.0 | < 1.0 U |
| 132-64-9 | Dibenzofuran | 0.48 | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 0.56 | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 2.4 | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 0.56 | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 0.31 | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 0.53 | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 0.54 | 1.0 | < 1.0 U |
| 206-44-0 | Fluoranthene | 0.52 | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 0.55 | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 0.56 | 1.0 | < 1.0 U |
| 56-55-3 | Benzo(a)anthracene | 0.52 | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.9 | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 0.55 | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 0.51 | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 0.48 | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.48 | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 0.48 | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 0.55 | 1.0 | < 1.0 U |
| 483-65-8 | Retene | 0.44 | 1.0 | < 1.0 U |
| TOTBFA | Total Benzofluoranthenes | 0.48 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

| | | | |
|----------------------|-------|------------------------|-------|
| d5-Nitrobenzene | 72.8% | 2-Fluorobiphenyl | 68.4% |
| d14-p-Terphenyl | 80.8% | d4-1,2-Dichlorobenzene | 59.2% |
| d5-Phenol | 73.3% | 2-Fluorophenol | 75.5% |
| 2,4,6-Tribromophenol | 72.3% | d4-2-Chlorophenol | 72.3% |

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

Instrument ID: NT6

Project: JELD WEN-MAULSBY MARSH

DFTPP Injection Date: 05/23/12

DFTPP Injection Time: 1334

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 30.7 |
| 68 | Less than 2.0% of mass 69 | 0.3 (0.9)1 |
| 69 | Mass 69 relative abundance | 33.2 |
| 70 | Less than 2.0% of mass 69 | 0.3 (0.8)1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 7.0 |
| 275 | 10.0 - 60.0% of mass 198 | 30.0 |
| 365 | Greater than 1.0% of mass 198 | 4.02 |
| 441 | 0.0 - 24.0% of mass 442 | 26.0 (14.3)2 |
| 442 | 50.0 - 200.0% of mass 198 | 182.2 |
| 443 | 15.0 - 24.0% of mass 442 | 35.2 (19.3)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 | IC250523 | IC250523 | 05231201 | 05/23/12 | 1334 |
| 02 | IC50523 | IC50523 | 05231203 | 05/23/12 | 1441 |
| 03 | IC100523 | IC100523 | 05231204 | 05/23/12 | 1515 |
| 04 | IC400523 | IC400523 | 05231205 | 05/23/12 | 1548 |
| 05 | IC600523 | IC600523 | 05231206 | 05/23/12 | 1622 |
| 06 | IC800523 | IC800523 | 05231207 | 05/23/12 | 1656 |
| 07 | IC10523 | IC10523 | 05231208 | 05/23/12 | 1846 |
| 08 | | | | | |
| 09 | | | | | |
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

Instrument ID: NT6

Project: JELD WEN-MAULSBY MARSH

DFTPP Injection Date: 05/24/12

DFTPP Injection Time: 1050

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 28.3 |
| 68 | Less than 2.0% of mass 69 | 0.1 (0.4)1 |
| 69 | Mass 69 relative abundance | 32.3 |
| 70 | Less than 2.0% of mass 69 | 0.0 (0.0)1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100.0 |
| 199 | 5.0 to 9.0% of mass 198 | 7.0 |
| 275 | 10.0 - 60.0% of mass 198 | 30.2 |
| 365 | Greater than 1.0% of mass 198 | 3.91 |
| 441 | 0.0 - 24.0% of mass 442 | 27.1 (14.6)2 |
| 442 | 50.0 - 200.0% of mass 198 | 185.7 |
| 443 | 15.0 - 24.0% of mass 442 | 35.8 (19.3)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 | CC0524 | CC0524 | 05241201 | 05/24/12 | 1050 |
| 02 | UU62MBW1 | UU62MBW1 | 05241202 | 05/24/12 | 1126 |
| 03 | UU62LCSW1 | UU62LCSW1 | 05241203 | 05/24/12 | 1159 |
| 04 | UU62LCSDW1 | UU62LCSDW1 | 05241204 | 05/24/12 | 1233 |
| 05 | MS-SSRB-120515 | UU62J | 05241206 | 05/24/12 | 1340 |
| 06 | MS-SSFB-120515 | UU62K | 05241207 | 05/24/12 | 1414 |
| 07 | | | | | |
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SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Calibration Date: 05/23/12

| LAB FILE ID: | RRF1 =05231208 | RRF5 =05231203 | RRF10 =05231204 | RRF25 =05231201 | RRF40 =05231205 | RRF60 =05231206 | RRF80 =05231207 | | |
|------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|-------------------------|
| COMPOUND | RRF 1 | RRF 5 | RRF 10 | RRF 25 | RRF 40 | RRF 60 | RRF 80 | RRF | %RSD /R ² |
| Phenol | 1.930 | 1.625 | 1.582 | 1.656 | 1.730 | 1.598 | 1.470 | 1.656 | 8.7 |
| Bis(2-Chloroethyl)ether | 1.138 | 1.120 | 1.169 | 1.107 | 1.250 | 1.176 | 1.089 | 1.150 | 4.7 |
| 2-Chlorophenol | 1.798 | 1.494 | 1.433 | 1.491 | 1.557 | 1.465 | 1.343 | 1.512 | 9.4 |
| 1,3-Dichlorobenzene | 1.596 | 1.581 | 1.586 | 1.463 | 1.646 | 1.558 | 1.417 | 1.550 | 5.2 |
| 1,4-Dichlorobenzene | 1.596 | 1.622 | 1.573 | 1.470 | 1.631 | 1.547 | 1.400 | 1.548 | 5.5 |
| 1,2-Dichlorobenzene | 1.512 | 1.518 | 1.502 | 1.414 | 1.581 | 1.492 | 1.358 | 1.482 | 5.0 |
| Benzyl alcohol | 0.594 | 0.890 | 0.877 | 0.839 | 1.006 | 0.944 | 0.902 | 0.864 | 15.1 |
| 2,2'-oxybis(1-Chloropropane) | 1.332 | 1.344 | 1.303 | 1.216 | 1.374 | 1.277 | 1.180 | 1.289 | 5.4 |
| 2-Methylphenol | 1.458 | 1.218 | 1.194 | 1.245 | 1.333 | 1.239 | 1.157 | 1.263 | 8.0 |
| Hexachloroethane | 0.535 | 0.548 | 0.549 | 0.525 | 0.597 | 0.584 | 0.545 | 0.555 | 4.7 |
| N-Nitroso-di-n-propylamine | 0.767 | 0.788 | 0.779 | 0.728 | 0.853 | 0.784 | 0.736 | 0.776 | 5.3 |
| 4-Methylphenol | 1.391 | 1.270 | 1.255 | 1.319 | 1.401 | 1.295 | 1.201 | 1.304 | 5.5 |
| Nitrobenzene | 0.326 | 0.341 | 0.335 | 0.316 | 0.351 | 0.332 | 0.305 | 0.329 | 4.7 |
| Isophorone | 0.488 | 0.506 | 0.494 | 0.458 | 0.516 | 0.483 | 0.449 | 0.485 | 5.0 |
| 2-Nitrophenol | 0.256 | 0.224 | 0.217 | 0.233 | 0.242 | 0.232 | 0.218 | 0.232 | 6.0 |
| 2,4-Dimethylphenol | 0.382 | 0.341 | 0.334 | 0.353 | 0.364 | 0.342 | 0.314 | 0.347 | 6.3 |
| Bis(2-Chloroethoxy)methane | 0.362 | 0.378 | 0.372 | 0.347 | 0.387 | 0.363 | 0.336 | 0.364 | 4.9 |
| 2,4-Dichlorophenol | 0.346 | 0.335 | 0.335 | 0.356 | 0.368 | 0.346 | 0.319 | 0.344 | 4.6 |
| 1,2,4-Trichlorobenzene | 0.380 | 0.379 | 0.373 | 0.349 | 0.392 | 0.371 | 0.340 | 0.369 | 5.0 |
| Naphthalene | 1.167 | 1.180 | 1.137 | 0.990 | 1.009 | 0.880 | 0.754 | 1.017 | 15.6 |
| Benzoic acid | | 0.122 | 0.146 | 0.194 | 0.228 | 0.218 | 0.212 | 0.187 | 0.993 |
| 4-Chloroaniline | 0.472 | 0.517 | 0.493 | 0.462 | 0.491 | 0.444 | 0.407 | 0.469 | 7.7 |
| Hexachlorobutadiene | 0.232 | 0.229 | 0.225 | 0.213 | 0.238 | 0.227 | 0.213 | 0.225 | 4.2 |
| 4-Chloro-3-methylphenol | 0.274 | 0.256 | 0.270 | 0.294 | 0.307 | 0.267 | 0.255 | 0.275 | 7.0 |
| 2-Methylnaphthalene | 0.682 | 0.709 | 0.667 | 0.596 | 0.657 | 0.588 | 0.524 | 0.632 | 10.2 |
| Hexachlorocyclopentadiene | | 0.219 | 0.283 | 0.307 | 0.371 | 0.375 | 0.335 | 0.315 | 18.7 |
| 2,4,6-Trichlorophenol | 0.410 | 0.376 | 0.377 | 0.405 | 0.436 | 0.441 | 0.426 | 0.410 | 6.4 |
| 2,4,5-Trichlorophenol | 0.330 | 0.376 | 0.373 | 0.422 | 0.442 | 0.431 | 0.400 | 0.396 | 10.0 |
| 2-Chloronaphthalene | 1.077 | 1.106 | 1.096 | 0.971 | 1.075 | 1.067 | 0.915 | 1.044 | 6.9 |
| 2-Nitroaniline | 0.179 | 0.281 | 0.280 | 0.242 | 0.279 | 0.275 | 0.258 | 0.256 | 14.4 |
| Acenaphthylene | 1.808 | 1.904 | 1.848 | 1.517 | 1.635 | 1.433 | 1.289 | 1.633 | 14.2 |
| Dimethylphthalate | 1.123 | 1.183 | 1.142 | 0.954 | 1.061 | 1.033 | 0.923 | 1.060 | 9.2 |
| 2,6-Dinitrotoluene | 0.231 | 0.274 | 0.275 | 0.241 | 0.276 | 0.278 | 0.260 | 0.262 | 7.3 |
| Acenaphthene | 1.156 | 1.195 | 1.162 | 0.978 | 1.062 | 1.023 | | 1.096 | 8.0 |
| 3-Nitroaniline | 0.263 | 0.348 | 0.341 | 0.293 | 0.308 | 0.291 | 0.255 | 0.300 | 11.9 |
| 2,4-Dinitrophenol | | 0.033 | 0.080 | 0.144 | 0.174 | 0.197 | 0.192 | 0.137 | 0.993 |
| Dibenzofuran | 1.746 | 1.843 | 1.720 | 1.390 | 1.481 | 1.371 | 1.197 | 1.535 | 15.5 |

<- Outside QC limits: %RSD <20% or R² > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Calibration Date: 05/23/12

| LAB FILE ID: | RRF1 =05231208 | RRF5 =05231203 | RRF10 =05231204 | RRF25 =05231201 | RRF40 =05231205 | RRF60 =05231206 | RRF80 =05231207 | | |
|----------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|-------------------------|
| COMPOUND | RRF 1 | RRF 5 | RRF 10 | RRF 25 | RRF 40 | RRF 60 | RRF 80 | RRF | %RSD /R ² |
| 4-Nitrophenol | | 0.062 | 0.078 | 0.090 | 0.102 | 0.112 | 0.104 | 0.091 | 0.990 |
| 2,4-Dinitrotoluene | 0.268 | 0.349 | 0.355 | 0.313 | 0.360 | 0.372 | 0.349 | 0.338 | 10.6 |
| Fluorene | 1.296 | 1.408 | 1.369 | 1.158 | 1.256 | 1.189 | 1.034 | 1.244 | 10.4 |
| 4-Chlorophenyl-phenylether | 0.629 | 0.643 | 0.633 | 0.550 | 0.630 | 0.617 | 0.572 | 0.610 | 5.8 |
| Diethylphthalate | 1.081 | 1.120 | 1.084 | 0.897 | 1.004 | 0.995 | 0.887 | 1.010 | 9.1 |
| 4-Nitroaniline | 0.232 | 0.311 | 0.288 | 0.254 | 0.292 | 0.309 | 0.290 | 0.282 | 10.2 |
| 4,6-Dinitro-2-methylphenol | | 0.111 | 0.131 | 0.151 | 0.161 | 0.160 | 0.151 | 0.144 | 13.4 |
| N-Nitrosodiphenylamine (1) | 0.506 | 0.543 | 0.550 | 0.476 | 0.538 | 0.484 | 0.432 | 0.504 | 8.5 |
| 4-Bromophenyl-phenylether | 0.258 | 0.266 | 0.261 | 0.232 | 0.271 | 0.246 | 0.230 | 0.252 | 6.4 |
| Hexachlorobenzene | 0.327 | 0.330 | 0.328 | 0.291 | 0.336 | 0.308 | 0.284 | 0.315 | 6.5 |
| Pentachlorophenol | | 0.047 | 0.066 | 0.123 | 0.142 | 0.154 | 0.147 | 0.113 | 0.993 |
| Phenanthrene | 1.163 | 1.220 | 1.179 | 0.990 | 1.039 | 0.907 | 0.780 | 1.040 | 15.4 |
| Anthracene | 1.152 | 1.241 | 1.208 | 1.021 | 1.064 | 0.910 | 0.760 | 1.051 | 16.3 |
| Carbazole | 0.882 | 0.932 | 0.891 | 0.764 | 0.824 | 0.762 | 0.653 | 0.815 | 11.8 |
| Di-n-butylphthalate | 1.030 | 1.087 | 1.084 | 0.949 | 0.995 | 0.878 | 0.728 | 0.964 | 13.3 |
| Fluoranthene | 1.247 | 1.280 | 1.261 | 1.086 | 1.107 | 0.990 | 0.816 | 1.112 | 15.2 |
| Pyrene | 1.177 | 1.232 | 1.202 | 0.993 | 1.048 | 0.849 | 0.729 | 1.033 | 18.4 |
| Butylbenzylphthalate | 0.362 | 0.408 | 0.412 | 0.372 | 0.432 | 0.398 | 0.361 | 0.392 | 7.0 |
| Benzo(a)anthracene | 1.104 | 1.150 | 1.121 | 0.961 | 1.035 | 0.897 | | 1.045 | 9.5 |
| 3,3'-Dichlorobenzidine | 0.402 | 0.454 | 0.418 | 0.374 | 0.413 | 0.370 | 0.333 | 0.395 | 10.0 |
| Chrysene | 1.062 | 1.115 | 1.083 | 0.925 | 0.993 | 0.835 | 0.706 | 0.960 | 15.5 |
| bis(2-Ethylhexyl)phthalate | 0.589 | 0.590 | 0.588 | 0.520 | 0.602 | 0.553 | 0.494 | 0.562 | 7.4 |
| Di-n-octylphthalate | 1.048 | 1.054 | 1.035 | 0.884 | 0.962 | 0.838 | 0.720 | 0.934 | 13.5 |
| Benzo(b)fluoranthene | 1.117 | 1.259 | 1.197 | 1.062 | 1.080 | 0.997 | 0.839 | 1.079 | 12.7 |
| Benzo(k)fluoranthene | 1.091 | 1.176 | 1.195 | 0.963 | 1.110 | 0.809 | 0.839 | 1.026 | 15.3 |
| Benzo(a)pyrene | 0.975 | 1.048 | 1.042 | 0.901 | 0.998 | 0.859 | 0.733 | 0.936 | 12.1 |
| Indeno(1,2,3-cd)pyrene | 1.338 | 1.516 | 1.509 | 1.319 | 1.491 | 1.318 | 1.166 | 1.380 | 9.5 |
| Dibenzo(a,h)anthracene | 1.098 | 1.270 | 1.261 | 1.100 | 1.197 | 1.002 | 0.836 | 1.109 | 13.9 |
| Benzo(g,h,i)perylene | 1.145 | 1.306 | 1.290 | 1.116 | 1.257 | 1.097 | 0.935 | 1.164 | 11.3 |
| N-Nitrosodimethylamine | 0.694 | 0.689 | 0.688 | 0.650 | 0.746 | 0.711 | 0.666 | 0.692 | 4.5 |
| Aniline | 2.080 | 2.026 | 1.878 | 1.798 | 1.818 | 1.648 | 1.504 | 1.822 | 11.1 |
| 1,2-Diphenylhydrazine | | | | | | | | | |
| Benzidine | | 0.299 | 0.233 | 0.315 | 0.176 | 0.159 | 0.143 | 0.221 | 33.2 |
| p-Cymene | | | | | | | | | |
| Caffeine | | | | | | | | | |
| Retene | 0.360 | 0.399 | 0.380 | 0.341 | 0.404 | 0.372 | 0.339 | 0.371 | 7.0 |
| Perylene | 1.047 | 1.061 | 0.983 | 0.836 | 0.928 | 0.801 | 0.683 | 0.906 | 15.4 |

(1) Cannot be separated from Diphenylamine
 <- Outside QC limits: %RSD <20% or R² > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Calibration Date: 05/23/12

| LAB FILE ID: | RRF1 =05231208 | RRF5 =05231203 | RRF10 =05231204 | RRF25 =05231201 | RRF40 =05231205 | RRF60 =05231206 | RRF80 =05231207 | | |
|------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|-------------------------|
| COMPOUND | RRF 1 | RRF 5 | RRF 10 | RRF 25 | RRF 40 | RRF 60 | RRF 80 | RRF | %RSD /R ² |
| 3-beta-Coprostanol | | | | | | | | | |
| Cholesterol | | | | | | | | | |
| beta-Sitosterol | | | | | | | | | |
| Pyridine | 0.978 | 1.146 | 1.225 | 1.149 | 1.259 | 1.218 | 1.116 | 1.156 | 8.1 |
| 1-methylnaphthalene | 0.531 | 0.533 | 0.497 | 0.445 | 0.506 | 0.462 | 0.424 | 0.485 | 8.8 |
| Guaiacol | 0.984 | 1.035 | 0.993 | 0.947 | 1.099 | 1.041 | 0.977 | 1.011 | 5.0 |
| 4,5-Dichloroguaiacol | 0.260 | 0.313 | 0.294 | 0.256 | 0.288 | 0.287 | 0.268 | 0.281 | 7.3 |
| 4,5,6-Trichloroguaiacol | 0.194 | 0.237 | 0.220 | 0.191 | 0.222 | 0.238 | 0.225 | 0.218 | 8.7 |
| 3,4,5-Trichloroguaiacol | 0.111 | 0.144 | 0.136 | 0.122 | 0.140 | 0.137 | 0.130 | 0.131 | 8.8 |
| Tetrachloroguaiacol | 0.091 | 0.131 | 0.133 | 0.129 | 0.153 | 0.148 | 0.140 | 0.132 | 15.2 |
| Azobenzene (1,2-DP-Hydrazine | 0.945 | 0.999 | 0.986 | 0.884 | 0.965 | 0.936 | 0.837 | 0.936 | 6.2 |
| Biphenyl | 1.216 | 1.282 | 1.198 | 1.024 | 1.130 | 1.022 | 0.943 | 1.116 | 11.1 |
| Diphenyl Oxide | 0.748 | 0.806 | 0.739 | 0.657 | 0.766 | 0.722 | 0.683 | 0.732 | 6.9 |
| Beta-Pinene | | | | | | | | | |
| Tributyl Phosphate | 0.592 | 0.656 | 0.626 | 0.552 | 0.628 | 0.583 | 0.513 | 0.593 | 8.3 |
| Dibutyl Phenyl Phosphate | 0.456 | 0.496 | 0.486 | 0.441 | 0.514 | 0.501 | 0.460 | 0.479 | 5.6 |
| Butyl Diphenyl Phosphate | 0.109 | 0.126 | 0.121 | 0.111 | 0.133 | 0.126 | 0.116 | 0.120 | 7.1 |
| Triphenyl Phosphate | 0.222 | 0.237 | 0.230 | 0.213 | 0.254 | 0.242 | 0.223 | 0.232 | 6.0 |
| 7,12-Dimethylbenz(a)anthrace | | | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | 0.224 | 0.245 | 0.274 | 0.288 | 0.314 | 0.328 | 0.309 | 0.283 | 13.4 |
| Quinoline | | | | | | | | | |
| Furfuraldehyde | | | | | | | | | |
| Acetophenone | 1.546 | 1.599 | 1.592 | 1.483 | 1.699 | 1.580 | 1.464 | 1.566 | 5.0 |
| 3,4-Dimethylphenol | | | | | | | | | |
| Safrole | | | | | | | | | |
| N-Tetradecane | | | | | | | | | |
| 2-Isopropylphenanthrene | | | | | | | | | |
| N-Hexadecane | | | | | | | | | |
| 1-Methylfluorene | | | | | | | | | |
| Dibenzothiophene | | | | | | | | | |
| 1-Methylphenanthrene | | | | | | | | | |
| 3,6-Dimethylphenanthrene | | | | | | | | | |
| Butylatedhydroxytoluene | 0.866 | 0.810 | 0.781 | 0.731 | 0.796 | 0.784 | 0.698 | 0.781 | 7.0 |
| 2,3,5,6-Tetrachlorophenol | | | | | | | | | |
| 2,3,4,5-tetrachlorophenol | | | | | | | | | |
| Chlorobenzilate | | | | | | | | | |
| Isodrin | | | | | | | | | |

<- Outside QC limits: %RSD <20% or R² > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Calibration Date: 05/23/12

| LAB FILE ID: | RRF1 =05231208 | RRF5 =05231203 | RRF10 =05231204 | RRF25 =05231201 | RRF40 =05231205 | RRF60 =05231206 | RRF80 =05231207 | | |
|--------------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|--------------|
| COMPOUND | RRF 1 | RRF 5 | RRF 10 | RRF 25 | RRF 40 | RRF 60 | RRF 80 | RRF | %RSD /R^2 |
| Diallate A | | | | | | | | | |
| Diallate B | | | | | | | | | |
| 1,2-Dibromo-3-Chloropropane | | | | | | | | | |
| 1,4-Dioxane | 0.400 | 0.435 | 0.423 | 0.398 | 0.433 | 0.442 | 0.403 | 0.419 | 4.4 |
| alpha-Terpineol | 0.198 | 0.204 | 0.194 | 0.177 | 0.204 | 0.190 | 0.177 | 0.192 | 6.0 |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| Dieldrin | | | | | | | | | |
| TCMX | | | | | | | | | |
| DCBP | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 0.554 | 0.564 | 0.553 | 0.493 | 0.558 | 0.568 | 0.510 | 0.543 | 5.4 |
| Benzo(e)pyrene | | | | | | | | | |
| Chlorpyrifos | | | | | | | | | |
| Diazinon | | | | | | | | | |
| Kelthane | | | | | | | | | |
| Methyl Parathion | | | | | | | | | |
| Ethyl Parathion | | | | | | | | | |
| Ethion | | | | | | | | | |
| 4-Nonylphenol | | | | | | | | | |
| Tetraethyl Tin | | | | | | | | | |
| 1,2,3-Trichloronaphthalene | | | | | | | | | |
| 1,2,3,4-Tetrachloronaphthalene | | | | | | | | | |
| 1,2,3,5,8-Pentachloronaphthalene | | | | | | | | | |
| 1,2,3,4,6,7-Hexachloronaphthalene | | | | | | | | | |
| 1,2,3,4,5,6,7-Heptachloronaphthalene | | | | | | | | | |
| Octachloronaphthalene | | | | | | | | | |
| 2,2',4,4',5-Pentabromobiphenyl | | | | | | | | | |
| Pentachlorobenzene | 0.527 | 0.541 | 0.533 | 0.473 | 0.549 | 0.522 | 0.484 | 0.518 | 5.6 |
| 4-tert-Butylphenol | | | | | | | | | |
| N,N-Dimethylaniline | | | | | | | | | |
| 2,3-Dimethylaniline | | | | | | | | | |
| 2,4-Dimethylaniline | | | | | | | | | |
| 2,5-Dimethylaniline | | | | | | | | | |
| 2,6-Dimethylaniline | | | | | | | | | |
| 3,4-Dimethylaniline | | | | | | | | | |
| 3,5-Dimethylaniline | | | | | | | | | |

<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Calibration Date: 05/23/12

| COMPOUND | RRF 1 | RRF 5 | RRF 10 | RRF 25 | RRF 40 | RRF 60 | RRF 80 | RRF | %RSD /R ² |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-------|-------------------------|
| LAB FILE ID: RRF1 =05231208 RRF5 =05231203 RRF10 =05231204 RRF25 =05231201 RRF40 =05231205 RRF60 =05231206 RRF80 =05231207 | | | | | | | | | |
| p-Benzoquinone | | 0.044 | 0.050 | 0.055 | 0.064 | 0.061 | 0.054 | 0.055 | 13.5 |
| 2-Benzyl-4-Chlorophenol | 0.167 | 0.210 | 0.212 | 0.203 | 0.239 | 0.243 | 0.226 | 0.214 | 12.1 |
| n-Decane | | | | | | | | | |
| n-Octadecane | | | | | | | | | |
| 3,4,6-Trichloroguaiacol | 0.482 | 0.602 | 0.572 | 0.532 | 0.644 | 0.584 | 0.596 | 0.573 | 9.2 |
| 4,6-Dichloroguaiacol | 0.592 | 0.694 | 0.655 | 0.597 | 0.706 | 0.617 | 0.597 | 0.637 | 7.6 |
| 3,4-Dichloroguaiacol | 0.435 | 0.543 | 0.517 | 0.490 | 0.566 | 0.510 | 0.502 | 0.509 | 8.2 |
| 4-Chloroguaiacol | 0.440 | 0.514 | 0.491 | 0.470 | 0.558 | 0.480 | 0.500 | 0.493 | 7.5 |
| Carbaryl | 0.469 | 0.422 | 0.461 | 0.497 | 0.533 | 0.530 | 0.476 | 0.484 | 8.1 |
| Total Benzofluoranthenes | 1.052 | 1.132 | 1.129 | 0.951 | 1.029 | 0.851 | 0.703 | 0.978 | 16.0 |
| 2-Fluorophenol | 1.036 | 1.150 | 1.208 | 1.092 | 1.286 | 1.203 | | 1.162 | 7.7 |
| Phenol-d5 | 1.292 | 1.407 | 1.410 | 1.308 | 1.517 | 1.383 | | 1.386 | 5.9 |
| 2-Chlorophenol-d4 | 1.264 | 1.384 | 1.372 | 1.257 | 1.450 | 1.334 | | 1.344 | 5.5 |
| 1,2-Dichlorobenzene-d4 | 1.016 | 0.997 | 0.981 | 0.894 | 1.034 | 0.957 | | 0.980 | 5.1 |
| Nitrobenzene-d5 | 0.306 | 0.332 | 0.330 | 0.302 | 0.341 | 0.312 | | 0.320 | 4.9 |
| 2-Fluorobiphenyl | 1.323 | 1.302 | 1.271 | 1.073 | 1.186 | 1.134 | | 1.215 | 8.2 |
| 2,4,6-Tribromophenol | 0.238 | 0.263 | 0.268 | 0.232 | 0.277 | 0.279 | | 0.260 | 7.8 |
| Terphenyl-d14 | 0.704 | 0.753 | 0.750 | 0.626 | 0.714 | 0.608 | | 0.692 | 8.9 |
| p-Cresol-d4 | | | | | | | | | |
| Anthracene-d10 | | | | | | | | | |
| Fluoranthene-d10 | | | | | | | | | |
| Dibenz(a,h)anthracene-d14 | | | | | | | | | |
| Diphenyl-d10 | | | | | | | | | |
| D10-1-methylnaphthalene | | | | | | | | | |
| d8-1,4-Dioxane | 0.471 | 0.454 | 0.447 | 0.420 | 0.457 | 0.461 | 0.422 | 0.447 | 4.4 |
| | | | | | | | | | |
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| | | | | | | | | | |

<- Outside QC limits: %RSD <20% or R² > 0.990

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Cont. Calib. Date: 05/24/12

Init. Calib. Date: 05/23/12

Cont. Calib. Time: 1050

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| Phenol | 1.656 | 1.658 | 0.800 | AVRG | 0.1 |
| Bis(2-Chloroethyl)ether | 1.150 | 1.124 | 0.700 | AVRG | -2.3 |
| 2-Chlorophenol | 1.512 | 1.512 | 0.800 | AVRG | 0.0 |
| 1,3-Dichlorobenzene | 1.550 | 1.486 | 0.010 | AVRG | -4.1 |
| 1,4-Dichlorobenzene | 1.548 | 1.485 | 0.010 | AVRG | -4.1 |
| 1,2-Dichlorobenzene | 1.482 | 1.433 | 0.010 | AVRG | -3.3 |
| Benzyl alcohol | 0.864 | 0.754 | 0.010 | AVRG | -12.7 |
| 2,2'-oxybis(1-Chloropropane) | 1.289 | 1.262 | 0.010 | AVRG | -2.1 |
| 2-Methylphenol | 1.263 | 1.263 | 0.700 | AVRG | 0.0 |
| Hexachloroethane | 0.555 | 0.534 | 0.300 | AVRG | -3.8 |
| N-Nitroso-di-n-propylamine | 0.776 | 0.762 | 0.500 | AVRG | -1.8 |
| 4-Methylphenol | 1.304 | 1.320 | 0.600 | AVRG | 1.2 |
| Nitrobenzene | 0.329 | 0.310 | 0.200 | AVRG | -5.8 |
| Isophorone | 0.485 | 0.466 | 0.400 | AVRG | -3.9 |
| 2-Nitrophenol | 0.232 | 0.233 | 0.100 | AVRG | 0.4 |
| 2,4-Dimethylphenol | 0.347 | 0.350 | 0.200 | AVRG | 0.9 |
| Bis(2-Chloroethoxy)methane | 0.364 | 0.344 | 0.300 | AVRG | -5.5 |
| 2,4-Dichlorophenol | 0.344 | 0.356 | 0.200 | AVRG | 3.5 |
| 1,2,4-Trichlorobenzene | 0.369 | 0.349 | 0.010 | AVRG | -5.4 |
| Naphthalene | 1.017 | 1.005 | 0.700 | AVRG | -1.2 |
| Benzoic acid | 50.00 | 47.23 | 0.010 | LINR | -5.5 |
| 4-Chloroaniline | 0.469 | 0.449 | 0.010 | AVRG | -4.3 |
| Hexachlorobutadiene | 0.225 | 0.212 | 0.010 | AVRG | -5.8 |
| 4-Chloro-3-methylphenol | 0.275 | 0.298 | 0.200 | AVRG | 8.4 |
| 2-Methylnaphthalene | 0.632 | 0.605 | 0.400 | AVRG | -4.3 |
| Hexachlorocyclopentadiene | 0.315 | 0.316 | 0.050 | AVRG | 0.3 |
| 2,4,6-Trichlorophenol | 0.410 | 0.426 | 0.200 | AVRG | 3.9 |
| 2,4,5-Trichlorophenol | 0.396 | 0.428 | 0.200 | AVRG | 8.1 |
| 2-Chloronaphthalene | 1.044 | 1.017 | 0.800 | AVRG | -2.6 |
| 2-Nitroaniline | 0.256 | 0.247 | 0.010 | AVRG | -3.5 |
| Acenaphthylene | 1.633 | 1.589 | 0.900 | AVRG | -2.7 |
| Dimethylphthalate | 1.060 | 0.998 | 0.010 | AVRG | -5.8 |
| 2,6-Dinitrotoluene | 0.262 | 0.248 | 0.200 | AVRG | -5.3 |
| Acenaphthene | 1.096 | 1.014 | 0.900 | AVRG | -7.5 |
| 3-Nitroaniline | 0.300 | 0.284 | 0.010 | AVRG | -5.3 |
| 2,4-Dinitrophenol | 50.00 | 49.26 | 0.010 | 2ORDR | -1.5 |
| Dibenzofuran | 1.535 | 1.446 | 0.800 | AVRG | -5.8 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Cont. Calib. Date: 05/24/12

Init. Calib. Date: 05/23/12

Cont. Calib. Time: 1050

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------------|------------------|-----------------|------------|---------------|----------------|
| 4-Nitrophenol | 25.00 | 22.50 | 0.010 | LINR | -10.0 |
| 2,4-Dinitrotoluene | 0.338 | 0.324 | 0.200 | AVRG | -4.1 |
| Fluorene | 1.244 | 1.200 | 0.900 | AVRG | -3.5 |
| 4-Chlorophenyl-phenylether | 0.610 | 0.568 | 0.400 | AVRG | -6.9 |
| Diethylphthalate | 1.010 | 0.939 | 0.010 | AVRG | -7.0 |
| 4-Nitroaniline | 0.282 | 0.275 | 0.010 | AVRG | -2.5 |
| 4,6-Dinitro-2-methylphenol | 0.144 | 0.150 | 0.010 | AVRG | 4.2 |
| N-Nitrosodiphenylamine (1) | 0.504 | 0.465 | 0.010 | AVRG | -7.7 |
| 4-Bromophenyl-phenylether | 0.252 | 0.227 | 0.100 | AVRG | -9.9 |
| Hexachlorobenzene | 0.315 | 0.286 | 0.100 | AVRG | -9.2 |
| Pentachlorophenol | 25.00 | 22.68 | 0.050 | 2ORDR | -9.3 |
| Phenanthrene | 1.040 | 1.012 | 0.700 | AVRG | -2.7 |
| Anthracene | 1.051 | 1.030 | 0.700 | AVRG | -2.0 |
| Carbazole | 0.815 | 0.777 | 0.010 | AVRG | -4.7 |
| Di-n-butylphthalate | 0.964 | 0.968 | 0.010 | AVRG | 0.4 |
| Fluoranthene | 1.112 | 1.128 | 0.600 | AVRG | 1.4 |
| Pyrene | 1.033 | 0.983 | 0.600 | AVRG | -4.8 |
| Butylbenzylphthalate | 0.392 | 0.371 | 0.010 | AVRG | -5.4 |
| Benzo(a)anthracene | 1.045 | 0.962 | 0.800 | AVRG | -7.9 |
| 3,3'-Dichlorobenzidine | 0.395 | 0.349 | 0.010 | AVRG | -11.6 |
| Chrysene | 0.960 | 0.927 | 0.700 | AVRG | -3.4 |
| bis(2-Ethylhexyl)phthalate | 0.562 | 0.525 | 0.010 | AVRG | -6.6 |
| Di-n-octylphthalate | 0.934 | 0.894 | 0.010 | AVRG | -4.3 |
| Benzo(b)fluoranthene | 1.079 | 1.049 | 0.700 | AVRG | -2.8 |
| Benzo(k)fluoranthene | 1.026 | 0.994 | 0.700 | AVRG | -3.1 |
| Benzo(a)pyrene | 0.936 | 0.906 | 0.700 | AVRG | -3.2 |
| Indeno(1,2,3-cd)pyrene | 1.380 | 1.333 | 0.500 | AVRG | -3.4 |
| Dibenzo(a,h)anthracene | 1.109 | 1.108 | 0.400 | AVRG | -0.1 |
| Benzo(g,h,i)perylene | 1.164 | 1.132 | 0.500 | AVRG | -2.7 |
| N-Nitrosodimethylamine | 0.692 | 0.648 | 0.010 | AVRG | -6.4 |
| Aniline | 1.822 | 1.788 | 0.010 | AVRG | -1.9 |
| Benzidine | 0.221 | 0.241 | 0.010 | AVRG | 9.0 |
| Pyridine | 1.156 | 1.157 | 0.010 | AVRG | 0.1 |
| 1-methylnaphthalene | 0.485 | 0.453 | 0.010 | AVRG | -6.6 |
| Azobenzene (1,2-DP-Hydrazine | 0.936 | 0.919 | 0.010 | AVRG | -1.8 |
| Total Benzofluoranthenes | 0.978 | 0.958 | 0.010 | AVRG | -2.0 |

(1) Cannot be separated from Diphenylamine

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Instrument ID: NT6

Cont. Calib. Date: 05/24/12

Init. Calib. Date: 05/23/12

Cont. Calib. Time: 1050

| COMPOUND | CalAmt or ARF | CC Amt or RF | MIN RRF | CURVE TYPE | %D or Drift |
|------------------------|------------------|-----------------|------------|---------------|----------------|
| Retene | 0.371 | 0.341 | 0.010 | AVRG | -8.1 |
| 2-Fluorophenol | 1.162 | 1.102 | 0.010 | AVRG | -5.2 |
| Phenol-d5 | 1.386 | 1.314 | 0.010 | AVRG | -5.2 |
| 2-Chlorophenol-d4 | 1.344 | 1.272 | 0.010 | AVRG | -5.4 |
| 1,2-Dichlorobenzene-d4 | 0.980 | 0.916 | 0.010 | AVRG | -6.5 |
| Nitrobenzene-d5 | 0.320 | 0.305 | 0.010 | AVRG | -4.7 |
| 2-Fluorobiphenyl | 1.215 | 1.130 | 0.010 | AVRG | -7.0 |
| 2,4,6-Tribromophenol | 0.260 | 0.235 | 0.010 | AVRG | -9.6 |
| Terphenyl-d14 | 0.692 | 0.620 | 0.010 | AVRG | -10.4 |

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Ical Midpoint ID: 05231201

Ical Date: 05/23/12

Instrument ID: NT6

Cont. Cal Date: 05/24/12

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 963757 | 7.19 | 3430476 | 9.26 | 2259168 | 12.11 |
| UPPER LIMIT | 1927514 | | 6860952 | | 4518336 | |
| LOWER LIMIT | 481878 | | 1715238 | | 1129584 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 841610 | 7.19 | 3091072 | 9.26 | 1981765 | 12.11 |
| UPPER LIMIT | | 7.69 | | 9.76 | | 12.61 |
| LOWER LIMIT | | 6.69 | | 8.76 | | 11.61 |
| 01 UU62MBW1 | 971489 | 7.19 | 3374983 | 9.25 | 2127525 | 12.10 |
| 02 UU62LCSW1 | 847652 | 7.19 | 3074341 | 9.26 | 1869892 | 12.11 |
| 03 UU62LCSDW1 | 912008 | 7.19 | 3381197 | 9.26 | 2121467 | 12.11 |
| 04 MS-SSRB-1205 | 896401 | 7.19 | 3178107 | 9.25 | 2016726 | 12.10 |
| 05 MS-SSFB-1205 | 948003 | 7.19 | 3347510 | 9.26 | 2141551 | 12.10 |
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IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Ical Midpoint ID: 05231201

Ical Date: 05/23/12

Instrument ID: NT6

Cont. Cal Date: 05/24/12

| | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|-----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 3446677 | 14.46 | 3961525 | 18.73 | 4154109 | 20.87 |
| UPPER LIMIT | 6893354 | | 7923050 | | 8308218 | |
| LOWER LIMIT | 1723338 | | 1980762 | | 2077054 | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 3205322 | 14.46 | 3861093 | 18.73 | 4039539 | 20.87 |
| UPPER LIMIT | | 14.96 | | 19.23 | | 21.37 |
| LOWER LIMIT | | 13.96 | | 18.23 | | 20.37 |
| 01 UU62MBW1 | 3333166 | 14.45 | 3717834 | 18.73 | 4238968 | 20.87 |
| 02 UU62LCSW1 | 3057363 | 14.45 | 3736704 | 18.73 | 3942542 | 20.87 |
| 03 UU62LCSDW1 | 3414818 | 14.46 | 3963208 | 18.73 | 4232897 | 20.87 |
| 04 MS-SSRB-1205 | 3170811 | 14.45 | 3765318 | 18.73 | 4272719 | 20.86 |
| 05 MS-SSFB-1205 | 3383727 | 14.45 | 3983969 | 18.73 | 4429070 | 20.86 |
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IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = 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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

ARI Job No: UU62

Project: JELD WEN-MAULSBY MARSH

Ical Midpoint ID: 05231201

Ical Date: 05/23/12

Instrument ID: NT6

Cont. Cal Date: 05/24/12

| | IS7 AREA # | RT # | AREA # | RT # | AREA # | RT # |
|-----------------|---------------|-------|--------|-------|--------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ICAL MIDPT | 3758743 | 19.96 | | | | |
| UPPER LIMIT | 7517486 | | | | | |
| LOWER LIMIT | 1879372 | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CCAL | 3655319 | 19.96 | | | | |
| UPPER LIMIT | | 20.46 | | | | |
| LOWER LIMIT | | 19.46 | | | | |
| 01 UU62MBW1 | 3450320 | 19.96 | | | | |
| 02 UU62LCSW1 | 3533231 | 19.96 | | | | |
| 03 UU62LCSDW1 | 3774442 | 19.96 | | | | |
| 04 MS-SSRB-1205 | 3520284 | 19.96 | | | | |
| 05 MS-SSFB-1205 | 3747644 | 19.96 | | | | |
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IS7 = Di-n-octylphthalate-d4

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.

**Pesticide Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS001-SS-120515
SAMPLE

Lab Sample ID: UU52A
 LIMS ID: 12-8893
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 06:56
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.3%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS001-SS-120515
DILUTION

Lab Sample ID: UU52A
 LIMS ID: 12-8893
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 04:10
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 90.3%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 99 | 990 | < 990 U |
| 72-55-9 | 4,4'-DDE | 120 | 990 | < 990 U |
| 72-54-8 | 4,4'-DDD | 130 | 990 | < 990 U |
| 50-29-3 | 4,4'-DDT | 190 | 990 | < 990 U |
| 53494-70-5 | Endrin Ketone | 120 | 990 | < 990 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS101-SS-120515
SAMPLE

Lab Sample ID: UU52B
 LIMS ID: 12-8894
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 07:15
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS101-SS-120515
DILUTION

Lab Sample ID: UU52B
 LIMS ID: 12-8894
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 04:28
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 99 | 990 | < 990 U |
| 72-55-9 | 4,4'-DDE | 120 | 990 | < 990 U |
| 72-54-8 | 4,4'-DDD | 130 | 990 | < 990 U |
| 50-29-3 | 4,4'-DDT | 190 | 990 | < 990 U |
| 53494-70-5 | Endrin Ketone | 120 | 990 | < 990 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS002-SS-120515
SAMPLE

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 07:34
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS002-SS-120515
DILUTION

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 04:46
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5000
 Silica Gel: Yes
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|------|-----------|
| 319-85-7 | beta-BHC | 690 | 2500 | < 2,500 U |
| 60-57-1 | Dieldrin | 500 | 5000 | < 5,000 U |
| 72-55-9 | 4,4'-DDE | 620 | 5000 | < 5,000 U |
| 72-54-8 | 4,4'-DDD | 670 | 5000 | < 5,000 U |
| 50-29-3 | 4,4'-DDT | 950 | 5000 | < 5,000 U |
| 53494-70-5 | Endrin Ketone | 590 | 5000 | < 5,000 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS003-SS-120515
SAMPLE

Lab Sample ID: UU52D
 LIMS ID: 12-8896
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 08:31
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.7%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS003-SS-120515
DILUTION

Lab Sample ID: UU52D
 LIMS ID: 12-8896
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 05:39
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 90.7%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 99 | 990 | < 990 U |
| 72-55-9 | 4,4'-DDE | 120 | 990 | < 990 U |
| 72-54-8 | 4,4'-DDD | 130 | 990 | < 990 U |
| 50-29-3 | 4,4'-DDT | 190 | 990 | < 990 U |
| 53494-70-5 | Endrin Ketone | 120 | 990 | < 990 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS004-SS-120515
SAMPLE

Lab Sample ID: UU52E
 LIMS ID: 12-8897
 Matrix: Sediment
 Data Release Authorized: *B*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 08:50
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.4%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 100 | < 100 U |
| 72-55-9 | 4,4'-DDE | 12 | 100 | < 100 U |
| 72-54-8 | 4,4'-DDD | 13 | 100 | < 100 U |
| 50-29-3 | 4,4'-DDT | 19 | 100 | < 100 U |
| 53494-70-5 | Endrin Ketone | 12 | 100 | < 100 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS004-SS-120515
DILUTION

Lab Sample ID: UU52E
 LIMS ID: 12-8897
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 05:57
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 90.4%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|------|-----------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 99 | 1000 | < 1,000 U |
| 72-55-9 | 4,4'-DDE | 120 | 1000 | < 1,000 U |
| 72-54-8 | 4,4'-DDD | 130 | 1000 | < 1,000 U |
| 50-29-3 | 4,4'-DDT | 190 | 1000 | < 1,000 U |
| 53494-70-5 | Endrin Ketone | 120 | 1000 | < 1,000 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS005-SS-120515
SAMPLE

Lab Sample ID: UU52F
 LIMS ID: 12-8898
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 09:09
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 91.1%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 49 | < 49 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS005-SS-120515
DILUTION

Lab Sample ID: UU52F
 LIMS ID: 12-8898
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 06:15
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 91.1%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 140 | 490 | < 490 U |
| 60-57-1 | Dieldrin | 99 | 990 | < 990 U |
| 72-55-9 | 4,4'-DDE | 120 | 990 | < 990 U |
| 72-54-8 | 4,4'-DDD | 130 | 990 | < 990 U |
| 50-29-3 | 4,4'-DDT | 190 | 990 | < 990 U |
| 53494-70-5 | Endrin Ketone | 120 | 990 | < 990 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS006-SS-120515
SAMPLE

Lab Sample ID: UU52G
 LIMS ID: 12-8899
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 11:02
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 10.0
 Silica Gel: Yes
 Percent Moisture: 90.8%

| CAS Number | Analyte | MDL | RL | Result |
|----------------|-----------------|------------|------------|-------------|
| 319-85-7 | beta-BHC | 1.4 | 12 | < 12 Y |
| 60-57-1 | Dieldrin | 0.99 | 9.9 | < 9.9 U |
| 72-55-9 | 4,4'-DDE | 1.2 | 9.9 | < 9.9 U |
| 72-54-8 | 4,4'-DDD | 1.3 | 9.9 | 40 P |
| 50-29-3 | 4,4'-DDT | 1.9 | 9.9 | 19 |
| 53494-70-5 | Endrin Ketone | 1.2 | 28 | < 28 Y |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 64.2% |
| Tetrachlorometaxylene | 54.0% |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS006-SS-120515
DILUTION

Lab Sample ID: UU52G
 LIMS ID: 12-8899
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 08:19
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS007-SS-120515
SAMPLE

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 11:21
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS007-SS-120515
DILUTION

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 08:37
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 99 | 990 | < 990 U |
| 72-55-9 | 4,4'-DDE | 120 | 990 | < 990 U |
| 72-54-8 | 4,4'-DDD | 130 | 990 | < 990 U |
| 50-29-3 | 4,4'-DDT | 190 | 990 | < 990 U |
| 53494-70-5 | Endrin Ketone | 120 | 990 | < 990 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS008-SS-120515
SAMPLE

Lab Sample ID: UU52I
 LIMS ID: 12-8901
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 11:40
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 89.0%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 9.9 | 99 | < 99 U |
| 72-55-9 | 4,4'-DDE | 12 | 99 | < 99 U |
| 72-54-8 | 4,4'-DDD | 13 | 99 | < 99 U |
| 50-29-3 | 4,4'-DDT | 19 | 99 | < 99 U |
| 53494-70-5 | Endrin Ketone | 12 | 99 | < 99 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
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Sample ID: MS008-SS-120515
DILUTION

Lab Sample ID: UU52I
 LIMS ID: 12-8901
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 08:55
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 5000
 Silica Gel: Yes
 Percent Moisture: 89.0%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|------|-----------|
| 319-85-7 | beta-BHC | 690 | 2500 | < 2,500 U |
| 60-57-1 | Dieldrin | 500 | 5000 | < 5,000 U |
| 72-55-9 | 4,4'-DDE | 620 | 5000 | < 5,000 U |
| 72-54-8 | 4,4'-DDD | 670 | 5000 | < 5,000 U |
| 50-29-3 | 4,4'-DDT | 950 | 5000 | < 5,000 U |
| 53494-70-5 | Endrin Ketone | 590 | 5000 | < 5,000 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
SAMPLE

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: *B*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 11:59
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|---------|
| 319-85-7 | beta-BHC | 14 | 50 | < 50 U |
| 60-57-1 | Dieldrin | 10 | 100 | < 100 U |
| 72-55-9 | 4,4'-DDE | 12 | 100 | < 100 U |
| 72-54-8 | 4,4'-DDD | 13 | 100 | < 100 U |
| 50-29-3 | 4,4'-DDT | 19 | 100 | < 100 U |
| 53494-70-5 | Endrin Ketone | 12 | 100 | < 100 U |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
DILUTION

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 09:31
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1000
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|------|-----------|
| 319-85-7 | beta-BHC | 140 | 500 | < 500 U |
| 60-57-1 | Dieldrin | 100 | 1000 | < 1,000 U |
| 72-55-9 | 4,4'-DDE | 120 | 1000 | < 1,000 U |
| 72-54-8 | 4,4'-DDD | 130 | 1000 | < 1,000 U |
| 50-29-3 | 4,4'-DDT | 190 | 1000 | < 1,000 U |
| 53494-70-5 | Endrin Ketone | 120 | 1000 | < 1,000 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

SW8081 PESTICIDE SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>DCBP</u> | <u>TCMX</u> | <u>TOT</u> | <u>OUT</u> |
|---------------------|-------------|-------------|------------|------------|
| MS001-SS-120515 | D | D | 0 | |
| MS001-SS-120515 DL | D | D | 0 | |
| MS101-SS-120515 | D | D | 0 | |
| MS101-SS-120515 DL | D | D | 0 | |
| MB-052212 | 87.0% | 77.8% | 0 | |
| LCS-052212 | 81.8% | 76.2% | 0 | |
| MS002-SS-120515 | D | D | 0 | |
| MS002-SS-120515 DL | D | D | 0 | |
| MS002-SS-120515 MS | D | D | 0 | |
| MS002-SS-120515 MSD | D | D | 0 | |
| MS003-SS-120515 | D | D | 0 | |
| MS003-SS-120515 DL | D | D | 0 | |
| MS004-SS-120515 | D | D | 0 | |
| MS004-SS-120515 DL | D | D | 0 | |
| MS005-SS-120515 | D | D | 0 | |
| MS005-SS-120515 DL | D | D | 0 | |
| MS006-SS-120515 | 64.2% | 54.0% | 0 | |
| MS006-SS-120515 DL | D | D | 0 | |
| MS007-SS-120515 | D | D | 0 | |
| MS007-SS-120515 DL | D | D | 0 | |
| MS008-SS-120515 | D | D | 0 | |
| MS008-SS-120515 DL | D | D | 0 | |
| MS009-SS-120515 | D | D | 0 | |
| MS009-SS-120515 DL | D | D | 0 | |

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (59-123) (22-156)
(TCMX) = Tetrachlorometaxylene (42-112) (29-142)

Prep Method: SW3546
Log Number Range: 12-8893 to 12-8902

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
 Page 1 of 1

Sample ID: MS002-SS-120515
 MS/MSD

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: *B*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted MS/MSD: 05/22/12

Sample Amount MS: 12.6 g-dry-wt
 MSD: 12.6 g-dry-wt

Date Analyzed MS: 05/26/12 07:53
 MSD: 05/26/12 08:12

Final Extract Volume MS: 2.5 mL
 MSD: 2.5 mL

Instrument/Analyst MS: ECD8/AAR
 MSD: ECD8/AAR

Dilution Factor MS: 100
 MSD: 100

GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No
 Acid Cleanup: No

Silica Gel: Yes

Percent Moisture: 89.8%


| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|---------------|--------|----------|----------------|-------------|----------|-----------------|--------------|-----|
| beta-BHC | < 49.7 | < 49.5 U | 3.96 | NA | < 49.8 U | 3.98 | NA | NA |
| Dieldrin | < 99.3 | < 99.0 U | 7.92 | NA | < 99.5 U | 7.96 | NA | NA |
| 4,4'-DDE | < 99.3 | < 99.0 U | 7.92 | NA | < 99.5 U | 7.96 | NA | NA |
| 4,4'-DDD | < 99.3 | < 99.0 U | 7.92 | NA | < 99.5 U | 7.96 | NA | NA |
| 4,4'-DDT | < 99.3 | < 99.0 U | 7.92 | NA | < 99.5 U | 7.96 | NA | NA |
| Endrin Ketone | < 99.3 | < 99.0 U | 7.92 | NA | < 99.5 U | 7.96 | NA | NA |

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS002-SS-120515
MATRIX SPIKE

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 07:53
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | --- |
| 60-57-1 | Dieldrin | 9.9 | 99 | --- |
| 72-55-9 | 4,4'-DDE | 12 | 99 | --- |
| 72-54-8 | 4,4'-DDD | 13 | 99 | --- |
| 50-29-3 | 4,4'-DDT | 19 | 99 | --- |
| 53494-70-5 | Endrin Ketone | 12 | 99 | --- |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS002-SS-120515
MATRIX SPIKE DUP

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 08:12
 Instrument/Analyst: ECD8/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 100
 Silica Gel: Yes
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|-----|-----|--------|
| 319-85-7 | beta-BHC | 14 | 50 | --- |
| 60-57-1 | Dieldrin | 10 | 100 | --- |
| 72-55-9 | 4,4'-DDE | 12 | 100 | --- |
| 72-54-8 | 4,4'-DDD | 13 | 100 | --- |
| 50-29-3 | 4,4'-DDT | 19 | 100 | --- |
| 53494-70-5 | Endrin Ketone | 12 | 100 | --- |


Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|---|
| Decachlorobiphenyl | D |
| Tetrachlorometaxylene | D |

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
 Page 1 of 1

Sample ID: LCS-052212
 LAB CONTROL

Lab Sample ID: LCS-052212
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 03:52
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No
 Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: NA

| Analyte | Lab Control | Spike Added | Recovery |
|---------------|-------------|-------------|----------|
| beta-BHC | 3.30 | 4.00 | 82.5% |
| Dieldrin | 7.42 | 8.00 | 92.8% |
| 4,4'-DDE | 9.48 | 8.00 | 118% |
| 4,4'-DDD | 7.32 | 8.00 | 91.5% |
| 4,4'-DDT | 7.18 | 8.00 | 89.8% |
| Endrin Ketone | 6.64 | 8.00 | 83.0% |

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 81.8% |
| Tetrachlorometaxylene | 76.2% |

Reported in µg/kg (ppb)

FORM 4
PESTICIDE METHOD BLANK SUMMARY

BLANK NO.

UU52MBS1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MAR

Lab Sample ID: UU52MBS1

Lab File ID: 0523A131

Date Extracted: 05/22/12

Matrix: SOLID

Date Analyzed: 05/25/12

Instrument ID: ECD6 & ECD8

Time Analyzed: 0334

GC Columns: STX-CLP1/STX-CLP2

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UU52LCSS1 | UU52LCSS1 | 05/25/12 |
| 02 | MS001-SS-120515 | UU52A | 05/25/12 |
| 03 | MS101-SS-120515 | UU52B | 05/25/12 |
| 04 | MS002-SS-120515 | UU52C | 05/25/12 |
| 05 | MS002-SS-120515 MS | UU52CMS | 05/25/12 |
| 06 | MS002-SS-120515 MSD | UU52CMSD | 05/25/12 |
| 07 | MS003-SS-120515 | UU52D | 05/25/12 |
| 08 | MS004-SS-120515 | UU52E | 05/25/12 |
| 09 | MS005-SS-120515 | UU52F | 05/25/12 |
| 10 | MS006-SS-120515 | UU52G | 05/25/12 |
| 11 | MS007-SS-120515 | UU52H | 05/25/12 |
| 12 | MS008-SS-120515 | UU52I | 05/25/12 |
| 13 | MS009-SS-120515 | UU52J | 05/25/12 |
| 02 | MS001-SS-120515 | UU52A | 05/26/12 |
| 03 | MS101-SS-120515 | UU52B | 05/26/12 |
| 04 | MS002-SS-120515 | UU52C | 05/26/12 |
| 05 | MS002-SS-120515 MS | UU52CMS | 05/26/12 |
| 06 | MS002-SS-120515 MSD | UU52CMSD | 05/26/12 |
| 07 | MS003-SS-120515 | UU52D | 05/26/12 |
| 08 | MS004-SS-120515 | UU52E | 05/26/12 |
| 09 | MS005-SS-120515 | UU52F | 05/26/12 |
| 10 | MS006-SS-120515 | UU52G | 05/26/12 |
| 11 | MS007-SS-120515 | UU52H | 05/26/12 |
| 12 | MS008-SS-120515 | UU52I | 05/26/12 |
| 13 | MS009-SS-120515 | UU52J | 05/26/12 |

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MB-052212
METHOD BLANK

Lab Sample ID: MB-052212
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 03:34
 Instrument/Analyst: ECD6/AAR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.5 g
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: NA

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|------|------|----------|
| 319-85-7 | beta-BHC | 0.14 | 0.50 | < 0.50 U |
| 60-57-1 | Dieldrin | 0.10 | 1.0 | < 1.0 U |
| 72-55-9 | 4,4'-DDE | 0.12 | 1.0 | < 1.0 U |
| 72-54-8 | 4,4'-DDD | 0.14 | 1.0 | < 1.0 U |
| 50-29-3 | 4,4'-DDT | 0.19 | 1.0 | < 1.0 U |
| 53494-70-5 | Endrin Ketone | 0.12 | 1.0 | < 1.0 U |

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 87.0% |
| Tetrachlorometaxylene | 77.8% |

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: MS-SSRB-120515

SAMPLE

Lab Sample ID: UU62J

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: *AB*

Reported: 05/25/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted: 05/18/12

Date Analyzed: 05/24/12 18:23

Instrument/Analyst: ECD6/AAR

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 500 mL

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|--------|-------|-----------|
| 319-85-7 | beta-BHC | 0.0098 | 0.050 | < 0.050 U |
| 60-57-1 | Dieldrin | 0.017 | 0.10 | < 0.10 U |
| 72-55-9 | 4,4'-DDE | 0.018 | 0.10 | < 0.10 U |
| 72-54-8 | 4,4'-DDD | 0.019 | 0.10 | < 0.10 U |
| 50-29-3 | 4,4'-DDT | 0.017 | 0.10 | < 0.10 U |
| 53494-70-5 | Endrin Ketone | 0.015 | 0.10 | < 0.10 U |

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 64.5% |
| Tetrachlorometaxylene | 85.0% |

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: MS-SSFB-120515

SAMPLE

Lab Sample ID: UU62K

LIMS ID: 12-8938

Matrix: Water

Data Release Authorized: *BB*

Reported: 05/25/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted: 05/18/12

Date Analyzed: 05/24/12 18:40

Instrument/Analyst: ECD6/AAR

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 500 mL

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|--------|-------|-----------|
| 319-85-7 | beta-BHC | 0.0098 | 0.050 | < 0.050 U |
| 60-57-1 | Dieldrin | 0.017 | 0.10 | < 0.10 U |
| 72-55-9 | 4,4'-DDE | 0.018 | 0.10 | < 0.10 U |
| 72-54-8 | 4,4'-DDD | 0.019 | 0.10 | < 0.10 U |
| 50-29-3 | 4,4'-DDT | 0.017 | 0.10 | < 0.10 U |
| 53494-70-5 | Endrin Ketone | 0.015 | 0.10 | < 0.10 U |

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 62.0% |
| Tetrachlorometaxylene | 65.0% |

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>DCBP</u> | <u>TCMX</u> | <u>TOT OUT</u> |
|------------------|-------------|-------------|----------------|
| MB-051812 | 75.5% | 69.0% | 0 |
| LCS-051812 | 76.5% | 66.2% | 0 |
| LCSD-051812 | 78.2% | 60.8% | 0 |
| MS-SSRB-120515 | 64.5% | 85.0% | 0 |
| MS-SSFB-120515 | 62.0% | 65.0% | 0 |

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (54-100) (32-116)
(TCMX) = Tetrachlorometaxylene (52-100) (43-106)

Prep Method: SW3510C
Log Number Range: 12-8937 to 12-8938

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: LCS-051812

LCS/LCSD

Lab Sample ID: LCS-051812

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: *M*

Reported: 05/25/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted LCS/LCSD: 05/18/12

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/24/12 15:42

Final Extract Volume LCS: 5.0 mL

LCSD: 05/24/12 16:00

LCSD: 5.0 mL

Instrument/Analyst LCS: ECD6/AAR

Dilution Factor LCS: 1.00

LCSD: ECD6/AAR

LCSD: 1.00

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Silica Gel: Yes

| Analyte | Spike | | LCS | LCSD | Spike | | RPD |
|---------------|-------|-----------|----------|-------|------------|----------|------|
| | LCS | Added-LCS | Recovery | | Added-LCSD | Recovery | |
| beta-BHC | 0.171 | 0.200 | 85.5% | 0.164 | 0.200 | 82.0% | 4.2% |
| Dieldrin | 0.375 | 0.400 | 93.8% | 0.368 | 0.400 | 92.0% | 1.9% |
| 4,4'-DDE | 0.494 | 0.400 | 124% | 0.481 | 0.400 | 120% | 2.7% |
| 4,4'-DDD | 0.398 | 0.400 | 99.5% | 0.384 | 0.400 | 96.0% | 3.6% |
| 4,4'-DDT | 0.385 | 0.400 | 96.2% | 0.375 | 0.400 | 93.8% | 2.6% |
| Endrin Ketone | 0.351 | 0.400 | 87.8% | 0.347 | 0.400 | 86.8% | 1.1% |

Pest/PCB Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|-------|
| Decachlorobiphenyl | 76.5% | 78.2% |
| Tetrachlorometaxylene | 66.2% | 60.8% |

Results reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

FORM 4
PESTICIDE METHOD BLANK SUMMARY

BLANK NO.

UU37MBW1

Lab Name: ANALYTICAL RESOURCES INC

Client: DOF

ARI Job No.: UU62

Project: ARKEMA MFG.

Lab Sample ID: UU37MBW1

Lab File ID: 0523A090

Date Extracted: 05/18/12

Matrix: LIQUID

Date Analyzed: 05/24/12

Instrument ID: ECD6

Time Analyzed: 1524

GC Columns: STX-CLP1/STX-CLP2

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| 01 | UU37LCSW1 | UU37LCSW1 | 05/24/12 |
| 02 | UU37LCSDW1 | UU37LCSDW1 | 05/24/12 |
| 03 | MS-SSRB-120515 | UU62J | 05/24/12 |
| 04 | MS-SSFB-120515 | UU62K | 05/24/12 |

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD Method SW8081B

Page 1 of 1

Sample ID: MB-051812

METHOD BLANK

Lab Sample ID: MB-051812

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: *AA*

Reported: 05/25/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 05/18/12

Date Analyzed: 05/24/12 15:24

Instrument/Analyst: ECD6/AAR

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 500 mL

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|---------------|--------|-------|-----------|
| 319-85-7 | beta-BHC | 0.0098 | 0.050 | < 0.050 U |
| 60-57-1 | Dieldrin | 0.017 | 0.10 | < 0.10 U |
| 72-55-9 | 4,4'-DDE | 0.018 | 0.10 | < 0.10 U |
| 72-54-8 | 4,4'-DDD | 0.019 | 0.10 | < 0.10 U |
| 50-29-3 | 4,4'-DDT | 0.017 | 0.10 | < 0.10 U |
| 53494-70-5 | Endrin Ketone | 0.015 | 0.10 | < 0.10 U |

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 75.5% |
| Tetrachlorometaxylene | 69.0% |

6D
8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 05/23/12

| COMPOUND | RT OF STANDARDS | | | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|-------|-------|------------|-----------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | FROM | TO |
| alpha-BHC | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.85 | 3.80 | 3.90 |
| beta-BHC | 4.19 | 4.19 | 4.19 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.13 | 4.23 |
| delta-BHC | 4.34 | 4.34 | 4.34 | 4.34 | 4.34 | 4.34 | 4.34 | 4.34 | 4.29 | 4.39 |
| gamma-BHC (Lindane) | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.06 | 4.16 |
| Heptachlor | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.47 | 4.57 |
| Aldrin | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.74 | 4.84 |
| Heptachlor epoxide b | 5.35 | 5.35 | 5.35 | 5.35 | 5.35 | 5.35 | 5.35 | 5.35 | 5.30 | 5.40 |
| Endosulfan I | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.67 | 5.77 |
| Dieldrin | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.90 | 6.00 |
| 4,4'-DDE | 5.68 | 5.68 | 5.68 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.62 | 5.72 |
| Endrin | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 | 6.11 | 6.21 |
| Endosulfan II | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.32 | 6.42 |
| 4,4'-DDD | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.18 | 6.28 |
| Endosulfan sulfate | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.09 | 7.19 |
| 4,4'-DDT | 6.49 | 6.49 | 6.49 | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.43 | 6.53 |
| Methoxychlor | 6.93 | 6.93 | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.87 | 6.97 |
| Endrin ketone | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.34 | 7.44 |
| Endrin aldehyde | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.70 | 6.80 |
| gamma-Chlordane | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.42 | 5.52 |
| alpha-Chlordane | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.54 | 5.64 |
| Hexachlorobutadiene | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.00 | 2.10 |
| Hexachlorobenzene | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.67 | 3.77 |
| Tetrachloro-m-xylene | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.36 | 3.46 |
| Decachlorobiphenyl | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.20 | 8.30 |

6D
8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 05/23/12

| COMPOUND | RT OF STANDARDS | | | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|-------|-------|------------|-----------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | FROM | TO |
| alpha-BHC | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.11 | 4.06 | 4.16 |
| beta-BHC | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.45 | 4.55 |
| delta-BHC | 4.79 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.73 | 4.83 |
| gamma-BHC (Lindane) | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| Heptachlor | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.80 | 4.90 |
| Aldrin | 5.17 | 5.17 | 5.17 | 5.17 | 5.17 | 5.17 | 5.17 | 5.17 | 5.12 | 5.22 |
| Heptachlor epoxide b | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.68 | 5.78 |
| Endosulfan I | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.07 | 6.17 |
| Dieldrin | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.33 | 6.43 |
| 4,4'-DDE | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.16 | 6.26 |
| Endrin | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.61 | 6.71 |
| Endosulfan II | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 | 6.86 | 6.81 | 6.91 |
| 4,4'-DDD | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.70 | 6.80 |
| Endosulfan sulfate | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.35 | 7.45 |
| 4,4'-DDT | 7.04 | 7.04 | 7.04 | 7.04 | 7.03 | 7.03 | 7.03 | 7.04 | 6.98 | 7.08 |
| Methoxychlor | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.58 | 7.68 |
| Endrin ketone | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.83 | 7.93 |
| Endrin aldehyde | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.11 | 7.21 |
| gamma-Chlordane | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.87 | 5.97 |
| alpha-Chlordane | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.01 | 6.11 |
| Hexachlorobutadiene | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.06 | 2.16 |
| Hexachlorobenzene | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.99 | 3.99 | 4.00 | 3.94 | 4.04 |
| Tetrachloro-m-xylene | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.54 | 3.64 |
| Decachlorobiphenyl | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.86 | 8.96 |

6E
8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 05/23/12

| COMPOUND | CALIBRATION FACTORS | | | | | | | MEAN | R ² %RSD |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | |
| alpha-BHC | 1.3961 | 1.5362 | 1.5052 | 1.6394 | 1.6886 | 1.7072 | 1.7006 | 1.5962 | 7.5 |
| beta-BHC | 0.6074 | 0.6114 | 0.5639 | 0.5839 | 0.5995 | 0.6023 | 0.5992 | 0.5954 | 2.7 |
| delta-BHC | 1.0852 | 1.0636 | 1.0330 | 1.1308 | 1.2320 | 1.2888 | 1.3184 | 1.1645 | 9.8 |
| gamma-BHC (Lindane) | 1.2631 | 1.2563 | 1.2345 | 1.3512 | 1.4062 | 1.4284 | 1.4330 | 1.3390 | 6.5 |
| Heptachlor | 1.4636 | 1.4409 | 1.3883 | 1.5050 | 1.5332 | 1.5278 | 1.4876 | 1.4780 | 3.5 |
| Aldrin | 1.3041 | 1.2760 | 1.2538 | 1.3809 | 1.4238 | 1.4381 | 1.4136 | 1.3558 | 5.6 |
| Heptachlor epoxide b | 1.2379 | 1.2162 | 1.1189 | 1.2088 | 1.2297 | 1.2301 | 1.2094 | 1.2073 | 3.4 |
| Endosulfan I | 1.7288 | 1.6336 | 1.5627 | 1.6835 | 1.6439 | 1.6263 | 1.5281 | 1.6296 | 4.2 |
| Dieldrin | 1.2797 | 1.2500 | 1.2400 | 1.3306 | 1.3459 | 1.3325 | 1.3034 | 1.2974 | 3.2 |
| 4,4'-DDE | 0.7021 | 0.6787 | 0.7155 | 0.7867 | 0.9118 | 0.9521 | 0.9986 | 0.8208 | 16.0 |
| Endrin | 0.8563 | 0.8180 | 0.8493 | 0.8801 | 0.8952 | 0.8796 | 0.8432 | 0.8602 | 3.1 |
| Endosulfan II | 0.8510 | 0.8055 | 0.8249 | 0.8500 | 0.8626 | 0.8495 | 0.8170 | 0.8372 | 2.5 |
| 4,4'-DDD | 0.6294 | 0.5967 | 0.6286 | 0.6644 | 0.7320 | 0.7473 | 0.7429 | 0.6773 | 9.2 |
| Endosulfan sulfate | 0.7733 | 0.7162 | 0.7256 | 0.7353 | 0.7482 | 0.7384 | 0.7154 | 0.7360 | 2.8 |
| 4,4'-DDT | 0.6866 | 0.6578 | 0.7024 | 0.7409 | 0.7961 | 0.8159 | 0.8073 | 0.7438 | 8.6 |
| Methoxychlor | 0.3995 | 0.3922 | 0.3821 | 0.3766 | 0.3726 | 0.3709 | 0.3590 | 0.3790 | 3.6 |
| Endrin ketone | 1.0470 | 0.9403 | 0.9255 | 0.9186 | 0.9251 | 0.9021 | 0.8733 | 0.9331 | 5.9 |
| Endrin aldehyde | 0.7213 | 0.6630 | 0.6658 | 0.6741 | 0.6847 | 0.6714 | 0.6459 | 0.6752 | 3.5 |
| gamma-Chlordane | 1.3860 | 1.2528 | 1.2054 | 1.2938 | 1.3381 | 1.3514 | 1.3360 | 1.3091 | 4.8 |
| alpha-Chlordane | 1.3087 | 1.2015 | 1.1587 | 1.2448 | 1.2666 | 1.2741 | 1.2660 | 1.2458 | 4.0 |
| Hexachlorobutadiene | 1.8887 | 1.7760 | 1.6850 | 1.7896 | 1.7704 | 1.7361 | 1.7026 | 1.7640 | 3.8 |
| Hexachlorobenzene | 1.2023 | 1.1534 | 1.0481 | 1.0745 | 1.0829 | 1.0721 | 1.0690 | 1.1003 | 5.1 |
| Tetrachloro-m-xylene | 1.3485 | 1.2600 | 1.1514 | 1.1874 | 1.1820 | 1.1598 | 0.9972 | 1.1838 | 9.1 |
| Decachlorobiphenyl | 1.0782 | 0.9484 | 0.9010 | 0.8830 | 0.8549 | 0.8291 | 0.7963 | 0.8987 | 10.4 |

6E
8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Calibration Date: 05/23/12

| COMPOUND | CALIBRATION FACTORS | | | | | | | MEAN | R ² |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | |
| alpha-BHC | 1.3295 | 1.2895 | 1.4006 | 1.3768 | 1.3838 | 1.3494 | 1.4062 | 1.3622 | 3.1 |
| beta-BHC | 0.6250 | 0.5153 | 0.5371 | 0.5049 | 0.5013 | 0.4827 | 0.5018 | 0.5240 | 9.1 |
| delta-BHC | 0.9615 | 0.8751 | 0.9581 | 0.9336 | 1.0036 | 1.0017 | 1.0729 | 0.9724 | 6.4 |
| gamma-BHC (Lindane) | 1.2389 | 1.1098 | 1.1798 | 1.1410 | 1.1569 | 1.1282 | 1.1816 | 1.1623 | 3.7 |
| Heptachlor | 1.3402 | 1.1973 | 1.2505 | 1.1806 | 1.1190 | 1.0573 | 1.0433 | 1.1697 | 9.1 |
| Aldrin | 1.1083 | 1.0144 | 1.0603 | 1.0079 | 0.9924 | 0.9498 | 0.9640 | 1.0139 | 5.4 |
| Heptachlor epoxide b | 1.1018 | 1.0473 | 1.0324 | 0.9676 | 0.9471 | 0.8931 | 0.8959 | 0.9836 | 8.1 |
| Endosulfan I | 1.0055 | 0.8787 | 0.8934 | 0.8353 | 0.8145 | 0.7771 | 0.7884 | 0.8561 | 9.2 |
| Dieldrin | 1.0056 | 0.9015 | 0.9326 | 0.8880 | 0.8592 | 0.8043 | 0.8042 | 0.8850 | 8.1 |
| 4,4'-DDE | 0.8953 | 0.7868 | 0.8083 | 0.7531 | 0.7573 | 0.7280 | 0.7504 | 0.7827 | 7.2 |
| Endrin | 1.6139 | 1.4319 | 1.4062 | 1.3634 | 1.3502 | 1.2845 | 1.1634 | 1.3734 | 10.1 |
| Endosulfan II | 1.6366 | 1.4646 | 1.4296 | 1.3806 | 1.3552 | 1.2978 | 1.1760 | 1.3915 | 10.3 |
| 4,4'-DDD | 1.3096 | 1.1537 | 1.1355 | 1.0924 | 1.1471 | 1.1234 | 1.0717 | 1.1476 | 6.7 |
| Endosulfan sulfate | 1.2046 | 1.1010 | 1.0906 | 1.0620 | 1.0531 | 1.0210 | 0.9513 | 1.0691 | 7.3 |
| 4,4'-DDT | 1.2392 | 1.1135 | 1.1153 | 1.0970 | 1.1375 | 1.1286 | 1.0796 | 1.1301 | 4.6 |
| Methoxychlor | 0.5905 | 0.5399 | 0.5098 | 0.4790 | 0.4419 | 0.4008 | 0.3579 | 0.4742 | 13.8 |
| Endrin ketone | 1.5816 | 1.4470 | 1.4293 | 1.3670 | 1.3511 | 1.2822 | 1.1765 | 1.3764 | 9.4 |
| Endrin aldehyde | 1.2635 | 1.1160 | 1.0805 | 1.0377 | 1.0313 | 0.9824 | 0.9074 | 1.0598 | 10.6 |
| gamma-Chlordane | 0.9908 | 0.9083 | 0.9620 | 0.9002 | 0.8893 | 0.8570 | 0.8808 | 0.9126 | 5.2 |
| alpha-Chlordane | 0.9926 | 0.8840 | 0.9001 | 0.8439 | 0.8326 | 0.7992 | 0.8274 | 0.8685 | 7.4 |
| Hexachlorobutadiene | 1.6564 | 1.5016 | 1.5788 | 1.4707 | 1.4186 | 1.3278 | 1.3980 | 1.4788 | 7.6 |
| Hexachlorobenzene | 1.3572 | 1.2382 | 1.2912 | 1.2186 | 1.2172 | 1.1688 | 1.2165 | 1.2440 | 5.0 |
| Tetrachloro-m-xylene | 1.0605 | 0.9847 | 1.0412 | 0.9924 | 0.9771 | 0.9289 | 0.9643 | 0.9927 | 4.5 |
| Decachlorobiphenyl | 1.3344 | 1.1954 | 1.1305 | 1.0799 | 1.0375 | 1.0114 | 0.9637 | 1.1075 | 11.4 |

6D
8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD8

Calibration Date: 05/25/12

| COMPOUND | RT OF STANDARDS | | | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|-------|-------|------------|-----------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | FROM | TO |
| alpha-BHC | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.40 | 4.50 |
| beta-BHC | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.80 | 4.90 |
| delta-BHC | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.96 | 5.06 |
| gamma-BHC (Lindane) | 4.75 | 4.76 | 4.76 | 4.75 | 4.75 | 4.76 | 4.76 | 4.76 | 4.71 | 4.81 |
| Heptachlor | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.15 | 5.25 |
| Aldrin | 5.48 | 5.48 | 5.48 | 5.48 | 5.48 | 5.48 | 5.48 | 5.48 | 5.43 | 5.53 |
| Heptachlor epoxide b | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.98 | 6.08 |
| Endosulfan I | 6.39 | 6.39 | 6.39 | 6.38 | 6.38 | 6.39 | 6.38 | 6.39 | 6.33 | 6.43 |
| Dieldrin | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 6.55 | 6.65 |
| 4,4'-DDE | 6.35 | 6.35 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.29 | 6.39 |
| Endrin | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.76 | 6.86 |
| Endosulfan II | 7.02 | 7.02 | 7.02 | 7.02 | 7.01 | 7.02 | 7.02 | 7.02 | 6.97 | 7.07 |
| 4,4'-DDD | 6.89 | 6.89 | 6.88 | 6.88 | 6.88 | 6.88 | 6.87 | 6.88 | 6.82 | 6.92 |
| Endosulfan sulfate | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.75 | 7.85 |
| 4,4'-DDT | 7.13 | 7.13 | 7.13 | 7.13 | 7.12 | 7.13 | 7.12 | 7.13 | 7.07 | 7.17 |
| Methoxychlor | 7.57 | 7.56 | 7.56 | 7.56 | 7.56 | 7.56 | 7.56 | 7.56 | 7.51 | 7.61 |
| Endrin ketone | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.01 | 8.11 |
| Endrin aldehyde | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.35 | 7.45 |
| gamma-Chlordane | 6.14 | 6.14 | 6.14 | 6.14 | 6.14 | 6.14 | 6.14 | 6.14 | 6.09 | 6.19 |
| alpha-Chlordane | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.21 | 6.31 |
| Hexachlorobutadiene | 1.73 | 1.73 | 1.73 | 1.73 | 1.73 | 1.73 | 1.73 | 1.73 | 1.68 | 1.78 |
| Hexachlorobenzene | 4.29 | 4.29 | 4.29 | 4.29 | 4.29 | 4.29 | 4.29 | 4.29 | 4.24 | 4.34 |
| Tetrachloro-m-xylene | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.85 | 3.95 |
| Decachlorobiphenyl | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.93 | 9.03 |

6D
8081 INITIAL CALIBRATION RETENTION TIMES

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD8

Calibration Date: 05/25/12

| COMPOUND | RT OF STANDARDS | | | | | | | MEAN RT | RT WINDOW | |
|----------------------|-----------------|-------|-------|-------|-------|-------|-------|------------|-----------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | FROM | TO |
| alpha-BHC | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.88 | 4.98 |
| beta-BHC | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.32 | 5.42 |
| delta-BHC | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.60 | 5.70 |
| gamma-BHC (Lindane) | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.23 | 5.33 |
| Heptachlor | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.66 | 5.76 |
| Aldrin | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.98 | 6.08 |
| Heptachlor epoxide b | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.52 | 6.62 |
| Endosulfan I | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.89 | 6.99 |
| Dieldrin | 7.20 | 7.20 | 7.20 | 7.20 | 7.20 | 7.20 | 7.20 | 7.20 | 7.15 | 7.25 |
| 4,4'-DDE | 7.03 | 7.03 | 7.03 | 7.03 | 7.02 | 7.03 | 7.02 | 7.03 | 6.97 | 7.07 |
| Endrin | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.44 | 7.54 |
| Endosulfan II | 7.69 | 7.69 | 7.69 | 7.69 | 7.68 | 7.69 | 7.69 | 7.69 | 7.64 | 7.74 |
| 4,4'-DDD | 7.57 | 7.57 | 7.57 | 7.57 | 7.57 | 7.57 | 7.57 | 7.56 | 7.51 | 7.61 |
| Endosulfan sulfate | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.21 | 8.31 |
| 4,4'-DDT | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.81 | 7.91 |
| Methoxychlor | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | 8.44 | 8.54 |
| Endrin ketone | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.78 | 8.73 | 8.83 |
| Endrin aldehyde | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 7.95 | 8.05 |
| gamma-Chlordane | 6.75 | 6.75 | 6.75 | 6.75 | 6.74 | 6.75 | 6.75 | 6.75 | 6.70 | 6.80 |
| alpha-Chlordane | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.83 | 6.93 |
| Hexachlorobutadiene | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 1.99 | 2.09 |
| Hexachlorobenzene | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.74 | 4.84 |
| Tetrachloro-m-xylene | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.25 | 4.35 |
| Decachlorobiphenyl | 9.92 | 9.92 | 9.92 | 9.92 | 9.92 | 9.92 | 9.92 | 9.92 | 9.87 | 9.97 |

6E
8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD8

Calibration Date: 05/25/12

| COMPOUND | CALIBRATION FACTORS | | | | | | | MEAN | R ² | %RSD |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|----------------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | | |
| alpha-BHC | 1.3333 | 1.3065 | 1.3561 | 1.4891 | 1.6958 | 1.7274 | 1.8451 | 1.5362 | 14.2 | |
| beta-BHC | 0.7303 | 0.6503 | 0.5221 | 0.5728 | 0.5545 | 0.5484 | 0.5610 | 0.5913 | 12.4 | |
| delta-BHC | 1.1032 | 1.0535 | 1.0389 | 1.1370 | 1.3213 | 1.3723 | 1.5227 | 1.2213 | 15.2 | |
| gamma-BHC (Lindane) | 1.1874 | 1.1266 | 1.0984 | 1.1794 | 1.3484 | 1.3553 | 1.4450 | 1.2486 | 10.6 | |
| Heptachlor | 1.1670 | 1.1208 | 1.1121 | 1.1992 | 1.3337 | 1.3142 | 1.3727 | 1.2314 | 8.7 | |
| Aldrin | 1.3481 | 1.3007 | 1.3239 | 1.4168 | 1.5772 | 1.6002 | 1.6852 | 1.4646 | 10.5 | |
| Heptachlor epoxide b | 1.3278 | 1.2310 | 1.2211 | 1.2711 | 1.3678 | 1.3561 | 1.4064 | 1.3116 | 5.5 | |
| Endosulfan I | 2.0165 | 2.2801 | 2.1031 | 2.1292 | 2.1762 | 1.9534 | 1.8046 | 2.0662 | 7.6 | |
| Dieldrin | 1.2856 | 1.3037 | 1.3194 | 1.4071 | 1.5346 | 1.4596 | 1.5037 | 1.4020 | 7.2 | |
| 4,4'-DDE | 0.7192 | 0.7154 | 0.8400 | 0.8683 | 1.1742 | 1.2564 | 1.4784 | 1.0074 | 0.9991 | |
| Endrin | 0.8180 | 0.7802 | 0.7848 | 0.8281 | 0.9775 | 0.9118 | 0.9835 | 0.8691 | 10.1 | |
| Endosulfan II | 0.9066 | 0.8470 | 0.8182 | 0.8560 | 0.9788 | 0.9002 | 0.9494 | 0.8937 | 6.4 | |
| 4,4'-DDD | 0.8544 | 0.7346 | 0.6333 | 0.6274 | 0.7160 | 0.6613 | 0.7256 | 0.7075 | 11.1 | |
| Endosulfan sulfate | 0.7475 | 0.7004 | 0.6943 | 0.6940 | 0.8070 | 0.7619 | 0.8256 | 0.7472 | 7.3 | |
| 4,4'-DDT | 0.3895 | 0.4033 | 0.3904 | 0.4490 | 0.5487 | 0.5536 | 0.6230 | 0.4796 | 19.7 | |
| Methoxychlor | 0.2607 | 0.2482 | 0.2521 | 0.2558 | 0.2871 | 0.2848 | 0.3170 | 0.2722 | 9.2 | |
| Endrin ketone | 1.1371 | 0.9623 | 0.8789 | 0.8430 | 0.9205 | 0.8584 | 0.9040 | 0.9292 | 10.8 | |
| Endrin aldehyde | 0.7450 | 0.6838 | 0.6599 | 0.6730 | 0.7567 | 0.7073 | 0.7533 | 0.7113 | 5.7 | |
| gamma-Chlordane | 1.3054 | 1.2226 | 1.2034 | 1.2573 | 1.3816 | 1.3669 | 1.4525 | 1.3128 | 7.0 | |
| alpha-Chlordane | 1.2912 | 1.2331 | 1.3452 | 1.3004 | 1.4230 | 1.3964 | 1.4853 | 1.3535 | 6.4 | |
| Hexachlorobutadiene | 2.3488 | 2.2283 | 2.7224 | 2.2581 | 2.5279 | 2.3530 | 2.6456 | 2.4406 | 7.9 | |
| Hexachlorobenzene | 1.5112 | 1.3748 | 1.3205 | 1.3327 | 1.4802 | 1.3608 | 1.4365 | 1.4024 | 5.3 | |
| Tetrachloro-m-xylene | 1.1560 | 1.0735 | 1.0552 | 1.0854 | 1.2249 | 1.1434 | 1.1885 | 1.1324 | 5.6 | |
| Decachlorobiphenyl | 1.5636 | 1.3534 | 1.2681 | 1.2454 | 1.4036 | 1.2781 | 1.3497 | 1.3517 | 8.1 | |

6E
8081 PESTICIDE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD8

Calibration Date: 05/25/12

| COMPOUND | CALIBRATION FACTORS | | | | | | | R ² | |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|----------------|------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | MEAN | %RSD |
| alpha-BHC | 1.6897 | 1.5651 | 1.5759 | 1.6186 | 1.7782 | 1.7155 | 1.7110 | 1.6648 | 4.8 |
| beta-BHC | 0.7765 | 0.7223 | 0.6933 | 0.6686 | 0.6901 | 0.6576 | 0.6512 | 0.6942 | 6.3 |
| delta-BHC | 1.2218 | 1.1299 | 1.1598 | 1.1513 | 1.3020 | 1.2999 | 1.3337 | 1.2283 | 6.8 |
| gamma-BHC (Lindane) | 1.4702 | 1.3473 | 1.3285 | 1.3368 | 1.4332 | 1.4079 | 1.4108 | 1.3907 | 3.9 |
| Heptachlor | 1.3276 | 1.2884 | 1.2113 | 1.2570 | 1.2984 | 1.2626 | 1.2149 | 1.2657 | 3.4 |
| Aldrin | 1.6265 | 1.4983 | 1.4918 | 1.5158 | 1.6501 | 1.5855 | 1.5708 | 1.5627 | 4.0 |
| Heptachlor epoxide b | 1.4701 | 1.3581 | 1.2848 | 1.2439 | 1.2993 | 1.2431 | 1.2184 | 1.3025 | 6.7 |
| Endosulfan I | 1.3767 | 1.2504 | 1.3172 | 1.2013 | 1.2718 | 1.2308 | 1.2117 | 1.2657 | 4.9 |
| Dieldrin | 1.4393 | 1.3250 | 1.3210 | 1.3164 | 1.4046 | 1.3249 | 1.2897 | 1.3458 | 4.0 |
| 4,4'-DDE | 1.5093 | 1.3879 | 1.4761 | 1.4034 | 1.5902 | 1.5221 | 1.5058 | 1.4850 | 4.7 |
| Endrin | 1.0498 | 0.9429 | 0.9330 | 0.9324 | 1.0197 | 0.9055 | 0.8880 | 0.9530 | 6.2 |
| Endosulfan II | 1.1204 | 1.0030 | 1.0010 | 1.0107 | 1.0630 | 0.9733 | 0.9352 | 1.0152 | 5.9 |
| 4,4'-DDD | 0.9882 | 0.8743 | 0.8629 | 0.8381 | 0.8904 | 0.8128 | 0.8020 | 0.8670 | 7.2 |
| Endosulfan sulfate | 0.9224 | 0.8380 | 0.8279 | 0.8308 | 0.8895 | 0.8295 | 0.8326 | 0.8530 | 4.4 |
| 4,4'-DDT | 0.4783 | 0.4513 | 0.4925 | 0.5178 | 0.5834 | 0.6105 | 0.6507 | 0.5406 | 13.8 |
| Methoxychlor | 0.2775 | 0.2638 | 0.2716 | 0.2738 | 0.2880 | 0.2763 | 0.2814 | 0.2760 | 2.8 |
| Endrin ketone | 1.0070 | 0.9207 | 0.8984 | 0.9076 | 0.9483 | 0.8866 | 0.8798 | 0.9212 | 4.8 |
| Endrin aldehyde | 1.0053 | 0.8806 | 0.8438 | 0.8305 | 0.8790 | 0.7925 | 0.7781 | 0.8585 | 8.8 |
| gamma-Chlordane | 1.5144 | 1.3876 | 1.3445 | 1.3510 | 1.4119 | 1.3973 | 1.4026 | 1.4013 | 4.0 |
| alpha-Chlordane | 1.4947 | 1.3563 | 1.4595 | 1.3254 | 1.4251 | 1.3902 | 1.3934 | 1.4064 | 4.2 |
| Hexachlorobutadiene | 2.9191 | 2.5788 | 2.4523 | 2.3628 | 2.6336 | 2.3791 | 2.3713 | 2.5281 | 8.0 |
| Hexachlorobenzene | 1.7719 | 1.5566 | 1.4684 | 1.4238 | 1.6213 | 1.4275 | 1.4161 | 1.5265 | 8.7 |
| Tetrachloro-m-xylene | 2.0602 | 1.9043 | 1.8602 | 1.8581 | 2.1305 | 1.8544 | 1.7918 | 1.9228 | 6.5 |
| Decachlorobiphenyl | 1.6751 | 1.4341 | 1.3540 | 1.2589 | 1.3459 | 1.1860 | 1.1591 | 1.3447 | 13.0 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 24-MAY-2012 14:13

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.673 | 48669 |
| Endrin | 6.163 | 7553882 |
| 4,4'-DDD | 6.230 | 267215 |
| 4,4'-DDT | 6.484 | 6718434 |
| Endrin ketone | 7.388 | 340774 |
| Endrin aldehyde | 6.748 | 133821 |

DDT Percent Breakdown = 4.5 %
((48669+267215) * 100)/(48669+267215+6718434)

Endrin Percent Breakdown = 5.9 %
((133821+340774) * 100)/(133821+340774+7553882)

GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.208 | 206052 |
| Endrin | 6.663 | 14721691 |
| 4,4'-DDD | 6.748 | 672648 |
| 4,4'-DDT | 7.033 | 12825820 |
| Endrin ketone | 7.879 | 708380 |
| Endrin aldehyde | 7.157 | 407513 |

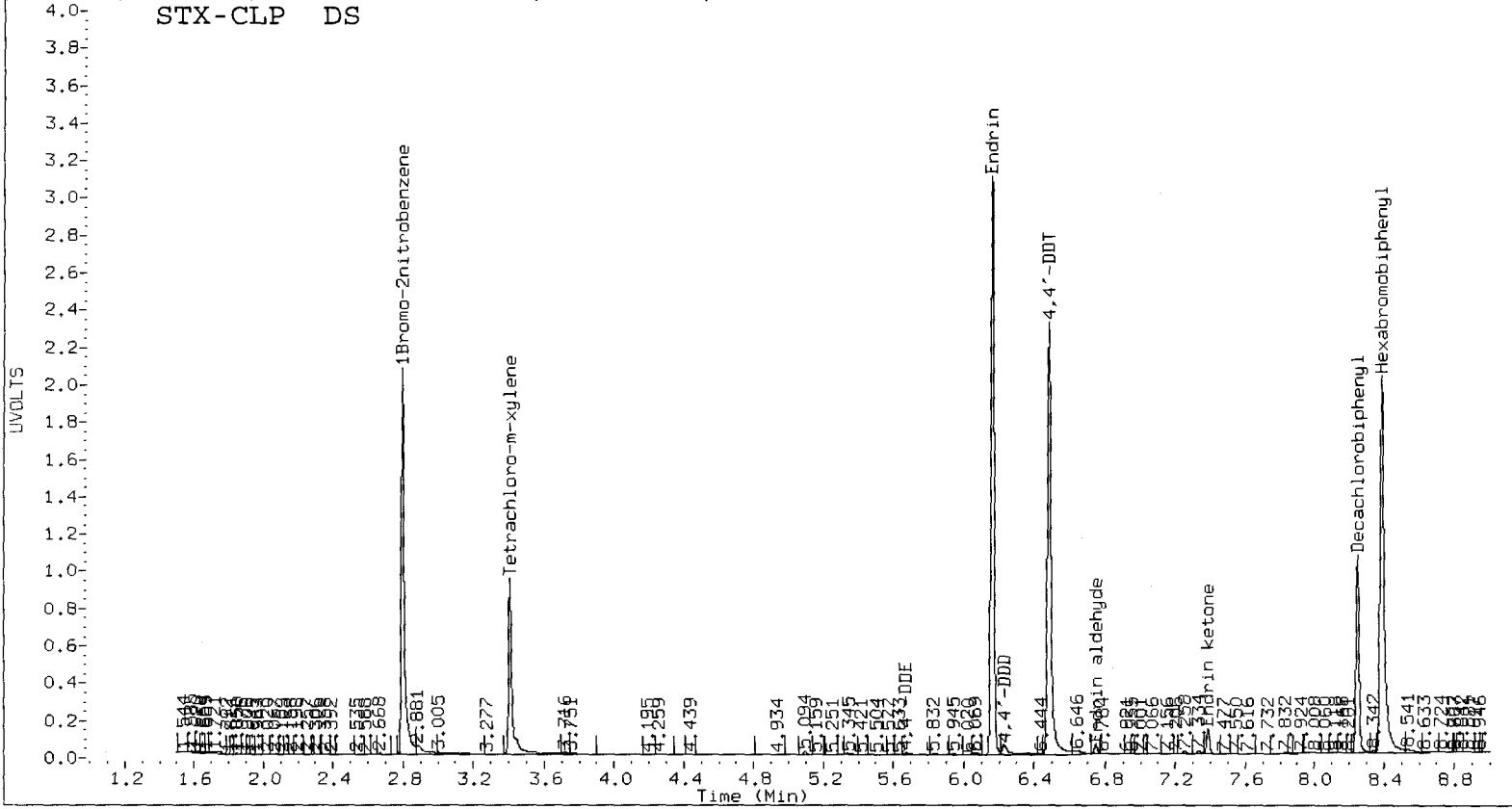
DDT Percent Breakdown = 6.4 %
((206052+672648) * 100)/(206052+672648+12825820)

Endrin Percent Breakdown = 7.0 %
((407513+708380) * 100)/(407513+708380+14721691)

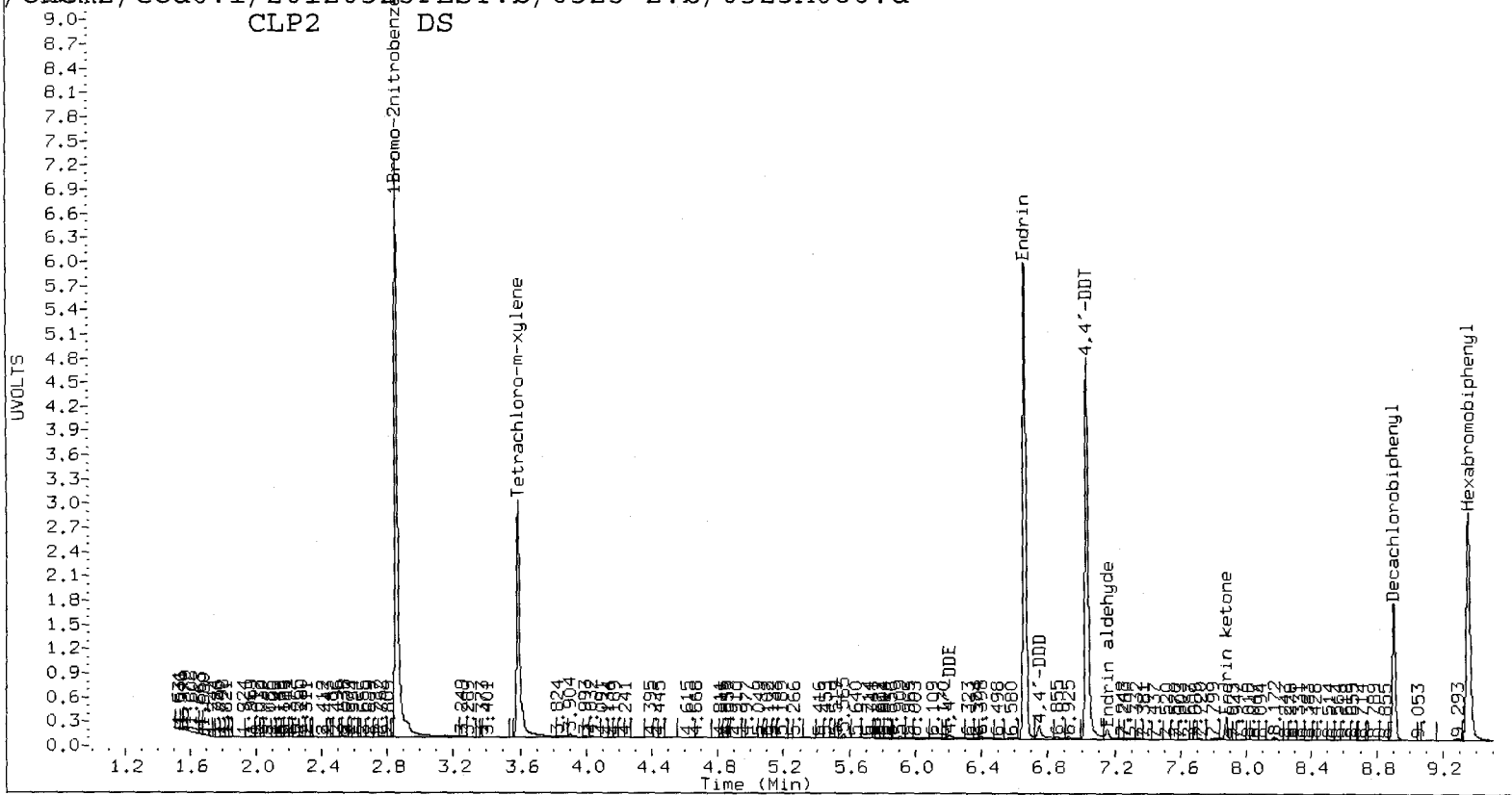
Form VII Pest-1

UU52:00143

STX-CLP DS



CLP2 DS



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/24/12,1431

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|------|
| | | FROM | TO | | | |
| alpha-BHC | 3.85 | 3.80 | 3.90 | 21.0 | 20.0 | 5.0 |
| beta-BHC | 4.18 | 4.13 | 4.23 | 20.1 | 20.0 | 0.4 |
| delta-BHC | 4.34 | 4.29 | 4.39 | 21.0 | 20.0 | 5.1 |
| gamma-BHC (Lindane) | 4.11 | 4.06 | 4.16 | 20.8 | 20.0 | 4.1 |
| Heptachlor | 4.52 | 4.47 | 4.57 | 20.7 | 20.0 | 3.2 |
| Aldrin | 4.79 | 4.74 | 4.84 | 20.8 | 20.0 | 4.2 |
| Heptachlor epoxide b | 5.35 | 5.30 | 5.40 | 20.1 | 20.0 | 0.4 |
| Endosulfan I | 5.72 | 5.67 | 5.77 | 19.7 | 20.0 | -1.5 |
| Dieldrin | 5.95 | 5.90 | 6.00 | 40.7 | 40.0 | 1.8 |
| 4,4'-DDE | 5.67 | 5.62 | 5.72 | 44.8 | 40.0 | 12.0 |
| Endrin | 6.16 | 6.11 | 6.21 | 40.4 | 40.0 | 0.9 |
| Endosulfan II | 6.37 | 6.32 | 6.42 | 40.0 | 40.0 | 0.1 |
| 4,4'-DDD | 6.23 | 6.18 | 6.28 | 42.3 | 40.0 | 5.8 |
| Endosulfan sulfate | 7.14 | 7.09 | 7.19 | 39.6 | 40.0 | -0.9 |
| 4,4'-DDT | 6.48 | 6.43 | 6.53 | 41.7 | 40.0 | 4.3 |
| Methoxychlor | 6.92 | 6.87 | 6.97 | 193.3 | 200.0 | -3.3 |
| Endrin ketone | 7.39 | 7.34 | 7.44 | 38.5 | 40.0 | -3.8 |
| Endrin aldehyde | 6.75 | 6.70 | 6.80 | 39.3 | 40.0 | -1.6 |
| gamma-Chlordane | 5.47 | 5.42 | 5.52 | 20.2 | 20.0 | 1.2 |
| alpha-Chlordane | 5.59 | 5.54 | 5.64 | 19.3 | 20.0 | -3.7 |
| Hexachlorobutadiene | 2.05 | 2.00 | 2.10 | 20.0 | 20.0 | -0.0 |
| Hexachlorobenzene | 3.72 | 3.67 | 3.77 | 19.6 | 20.0 | -2.0 |
| Tetrachloro-m-xylene | 3.41 | 3.36 | 3.46 | 39.6 | 40.0 | -1.0 |
| Decachlorobiphenyl | 8.25 | 8.20 | 8.30 | 36.9 | 40.0 | -7.7 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/24/12,1431

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.11 | 4.06 | 4.16 | 20.0 | 20.0 | -0.2 |
| beta-BHC | 4.50 | 4.45 | 4.55 | 18.6 | 20.0 | -7.0 |
| delta-BHC | 4.78 | 4.73 | 4.83 | 20.2 | 20.0 | 0.8 |
| gamma-BHC (Lindane) | 4.43 | 4.38 | 4.48 | 19.5 | 20.0 | -2.6 |
| Heptachlor | 4.85 | 4.80 | 4.90 | 18.7 | 20.0 | -6.4 |
| Aldrin | 5.17 | 5.12 | 5.22 | 19.1 | 20.0 | -4.7 |
| Heptachlor epoxide b | 5.73 | 5.68 | 5.78 | 19.0 | 20.0 | -5.0 |
| Endosulfan I | 6.12 | 6.07 | 6.17 | 18.8 | 20.0 | -6.0 |
| Dieldrin | 6.38 | 6.33 | 6.43 | 38.3 | 40.0 | -4.3 |
| 4,4'-DDE | 6.21 | 6.16 | 6.26 | 38.5 | 40.0 | -3.7 |
| Endrin | 6.66 | 6.61 | 6.71 | 37.0 | 40.0 | -7.5 |
| Endosulfan II | 6.86 | 6.81 | 6.91 | 36.6 | 40.0 | -8.5 |
| 4,4'-DDD | 6.75 | 6.70 | 6.80 | 38.0 | 40.0 | -5.0 |
| Endosulfan sulfate | 7.40 | 7.35 | 7.45 | 37.5 | 40.0 | -6.2 |
| 4,4'-DDT | 7.03 | 6.98 | 7.08 | 38.3 | 40.0 | -4.4 |
| Methoxychlor | 7.63 | 7.58 | 7.68 | 169.6 | 200.0 | -15.2 |
| Endrin ketone | 7.88 | 7.83 | 7.93 | 37.2 | 40.0 | -7.0 |
| Endrin aldehyde | 7.16 | 7.11 | 7.21 | 36.7 | 40.0 | -8.3 |
| gamma-Chlordane | 5.92 | 5.87 | 5.97 | 19.3 | 20.0 | -3.5 |
| alpha-Chlordane | 6.06 | 6.01 | 6.11 | 19.0 | 20.0 | -5.2 |
| Hexachlorobutadiene | 2.11 | 2.06 | 2.16 | 19.1 | 20.0 | -4.7 |
| Hexachlorobenzene | 4.00 | 3.94 | 4.04 | 19.2 | 20.0 | -4.2 |
| Tetrachloro-m-xylene | 3.59 | 3.54 | 3.64 | 39.1 | 40.0 | -2.3 |
| Decachlorobiphenyl | 8.91 | 8.86 | 8.96 | 37.0 | 40.0 | -7.4 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 24-MAY-2012 19:34

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.674 | 56397 |
| Endrin | 6.163 | 7372484 |
| 4,4'-DDD | 6.231 | 222167 |
| 4,4'-DDT | 6.485 | 6581180 |
| Endrin ketone | 7.388 | 353697 |
| Endrin aldehyde | 6.749 | 151404 |

DDT Percent Breakdown = 4.1 %
((56397+222167) * 100)/(56397+222167+6581180)

Endrin Percent Breakdown = 6.4 %
((151404+353697) * 100)/(151404+353697+7372484)

GC Column: STX-CLP2 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.209 | 242224 |
| Endrin | 6.663 | 15024594 |
| 4,4'-DDD | 6.749 | 701823 |
| 4,4'-DDT | 7.034 | 13167851 |
| Endrin ketone | 7.880 | 767688 |
| Endrin aldehyde | 7.157 | 466274 |

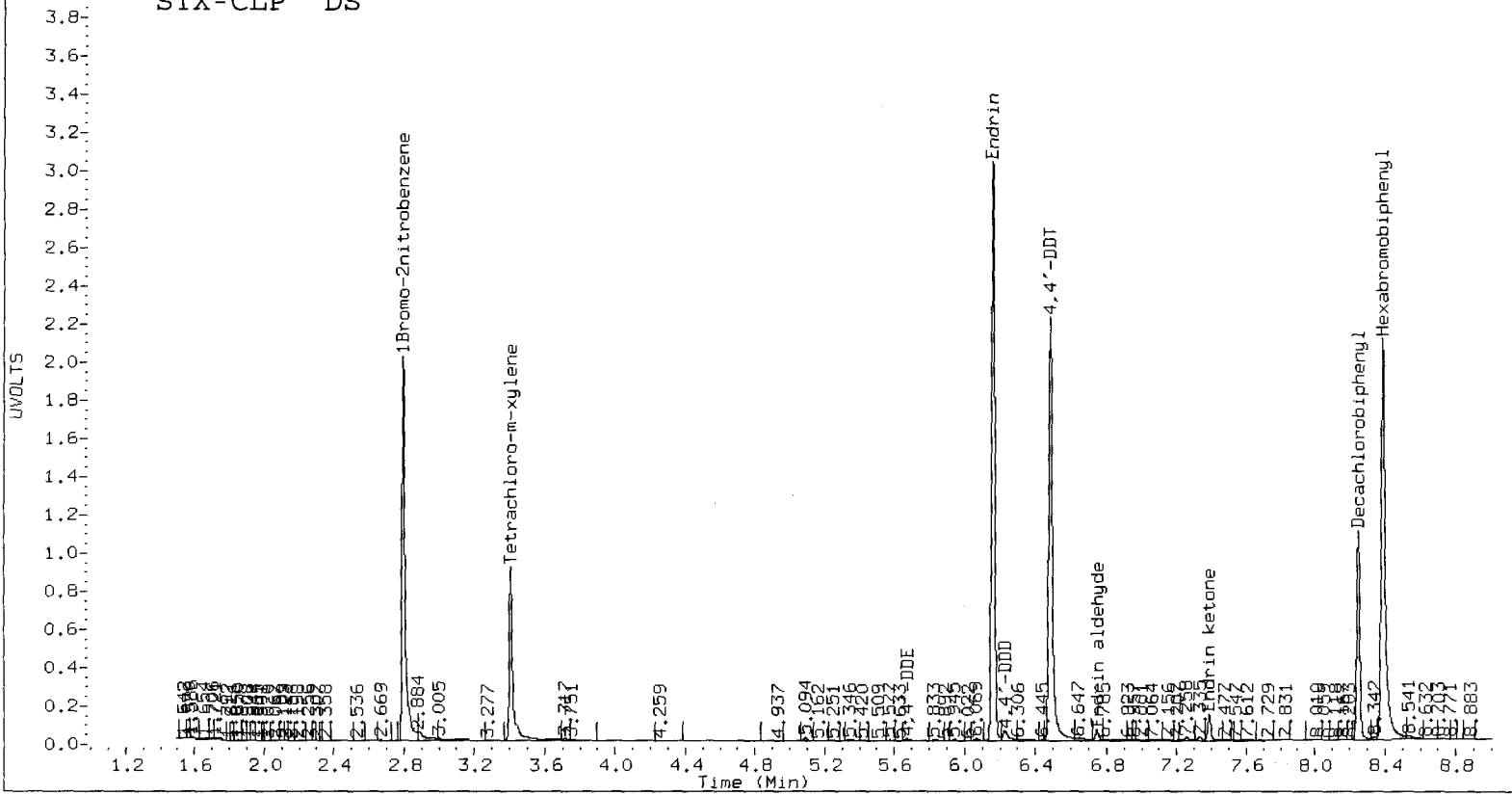
DDT Percent Breakdown = 6.7 %
((242224+701823) * 100)/(242224+701823+13167851)

Endrin Percent Breakdown = 7.6 %
((466274+767688) * 100)/(466274+767688+15024594)

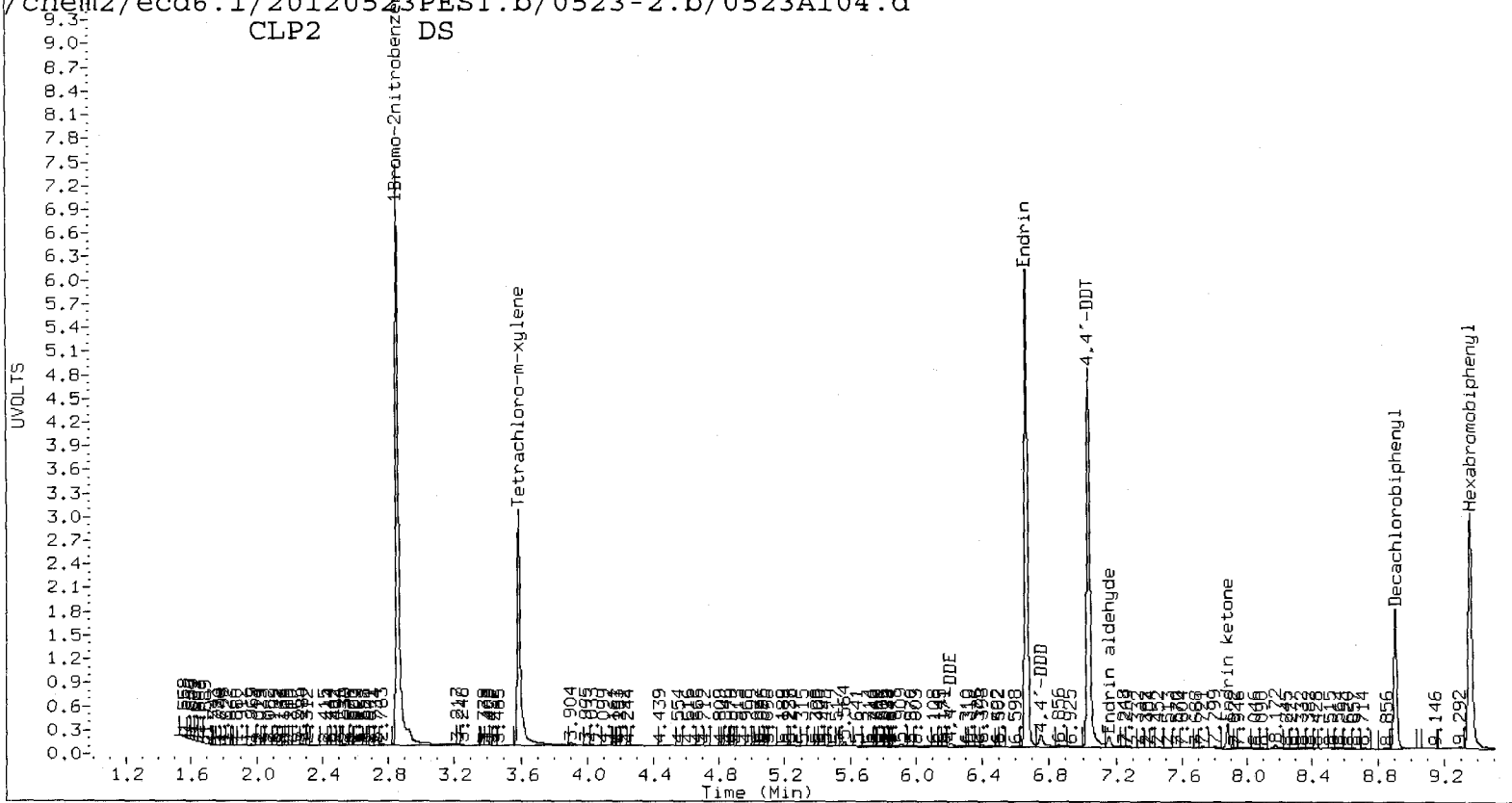
Form VII Pest-1

UU52:00147

chem2/ecd6.i/20120523PEST.b/0523-1A.b/0523A104.d
STX-CLP DS



chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A104.d
CLP2 DS



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/24/12,1952

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|------|
| | | FROM | TO | | | |
| alpha-BHC | 3.85 | 3.80 | 3.90 | 20.2 | 20.0 | 1.1 |
| beta-BHC | 4.18 | 4.13 | 4.23 | 19.3 | 20.0 | -3.4 |
| delta-BHC | 4.34 | 4.29 | 4.39 | 20.2 | 20.0 | 1.1 |
| gamma-BHC (Lindane) | 4.11 | 4.06 | 4.16 | 20.0 | 20.0 | -0.2 |
| Heptachlor | 4.52 | 4.47 | 4.57 | 19.9 | 20.0 | -0.6 |
| Aldrin | 4.79 | 4.74 | 4.84 | 20.1 | 20.0 | 0.3 |
| Heptachlor epoxide b | 5.35 | 5.30 | 5.40 | 19.3 | 20.0 | -3.6 |
| Endosulfan I | 5.72 | 5.67 | 5.77 | 18.9 | 20.0 | -5.4 |
| Dieldrin | 5.95 | 5.90 | 6.00 | 39.2 | 40.0 | -2.0 |
| 4,4'-DDE | 5.67 | 5.62 | 5.72 | 43.3 | 40.0 | 8.2 |
| Endrin | 6.16 | 6.11 | 6.21 | 39.6 | 40.0 | -1.0 |
| Endosulfan II | 6.37 | 6.32 | 6.42 | 39.2 | 40.0 | -2.1 |
| 4,4'-DDD | 6.23 | 6.18 | 6.28 | 41.6 | 40.0 | 3.9 |
| Endosulfan sulfate | 7.14 | 7.09 | 7.19 | 39.0 | 40.0 | -2.5 |
| 4,4'-DDT | 6.48 | 6.43 | 6.53 | 41.2 | 40.0 | 3.0 |
| Methoxychlor | 6.92 | 6.87 | 6.97 | 189.9 | 200.0 | -5.1 |
| Endrin ketone | 7.39 | 7.34 | 7.44 | 38.0 | 40.0 | -5.1 |
| Endrin aldehyde | 6.75 | 6.70 | 6.80 | 38.6 | 40.0 | -3.4 |
| gamma-Chlordane | 5.47 | 5.42 | 5.52 | 19.5 | 20.0 | -2.5 |
| alpha-Chlordane | 5.59 | 5.54 | 5.64 | 18.2 | 20.0 | -9.0 |
| Hexachlorobutadiene | 2.05 | 2.00 | 2.10 | 19.2 | 20.0 | -4.0 |
| Hexachlorobenzene | 3.72 | 3.67 | 3.77 | 18.8 | 20.0 | -6.1 |
| Tetrachloro-m-xylene | 3.41 | 3.36 | 3.46 | 38.1 | 40.0 | -4.8 |
| Decachlorobiphenyl | 8.25 | 8.20 | 8.30 | 37.0 | 40.0 | -7.6 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/24/12,1952

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.11 | 4.06 | 4.16 | 20.2 | 20.0 | 1.0 |
| beta-BHC | 4.50 | 4.45 | 4.55 | 19.0 | 20.0 | -5.2 |
| delta-BHC | 4.78 | 4.73 | 4.83 | 20.3 | 20.0 | 1.5 |
| gamma-BHC (Lindane) | 4.43 | 4.38 | 4.48 | 19.7 | 20.0 | -1.6 |
| Heptachlor | 4.85 | 4.80 | 4.90 | 19.0 | 20.0 | -4.8 |
| Aldrin | 5.17 | 5.12 | 5.22 | 19.4 | 20.0 | -3.0 |
| Heptachlor epoxide b | 5.73 | 5.68 | 5.78 | 19.2 | 20.0 | -3.8 |
| Endosulfan I | 6.12 | 6.07 | 6.17 | 19.1 | 20.0 | -4.4 |
| Dieldrin | 6.38 | 6.33 | 6.43 | 38.7 | 40.0 | -3.3 |
| 4,4'-DDE | 6.21 | 6.16 | 6.26 | 39.2 | 40.0 | -2.0 |
| Endrin | 6.66 | 6.61 | 6.71 | 36.3 | 40.0 | -9.3 |
| Endosulfan II | 6.86 | 6.81 | 6.91 | 36.0 | 40.0 | -10.1 |
| 4,4'-DDD | 6.75 | 6.70 | 6.80 | 37.3 | 40.0 | -6.7 |
| Endosulfan sulfate | 7.40 | 7.35 | 7.45 | 36.7 | 40.0 | -8.1 |
| 4,4'-DDT | 7.03 | 6.98 | 7.08 | 38.0 | 40.0 | -5.0 |
| Methoxychlor | 7.63 | 7.58 | 7.68 | 165.9 | 200.0 | -17.1 |
| Endrin ketone | 7.88 | 7.83 | 7.93 | 36.9 | 40.0 | -7.7 |
| Endrin aldehyde | 7.16 | 7.11 | 7.21 | 35.9 | 40.0 | -10.3 |
| gamma-Chlordane | 5.92 | 5.87 | 5.97 | 19.7 | 20.0 | -1.4 |
| alpha-Chlordane | 6.06 | 6.01 | 6.11 | 19.3 | 20.0 | -3.6 |
| Hexachlorobutadiene | 2.11 | 2.06 | 2.16 | 19.4 | 20.0 | -3.0 |
| Hexachlorobenzene | 4.00 | 3.94 | 4.04 | 19.3 | 20.0 | -3.5 |
| Tetrachloro-m-xylene | 3.59 | 3.54 | 3.64 | 39.1 | 40.0 | -2.2 |
| Decachlorobiphenyl | 8.91 | 8.86 | 8.96 | 37.0 | 40.0 | -7.6 |

E06

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 25-MAY-2012 02:23

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.675 | 57262 |
| Endrin | 6.163 | 7254760 |
| 4,4'-DDD | 6.232 | 249394 |
| 4,4'-DDT | 6.485 | 6485399 |
| Endrin ketone | 7.389 | 336450 |
| Endrin aldehyde | 6.749 | 139214 |

DDT Percent Breakdown = 4.5 %
((57262+249394) * 100)/(57262+249394+6485399)

Endrin Percent Breakdown = 6.2 %
((139214+336450) * 100)/(139214+336450+7254760)

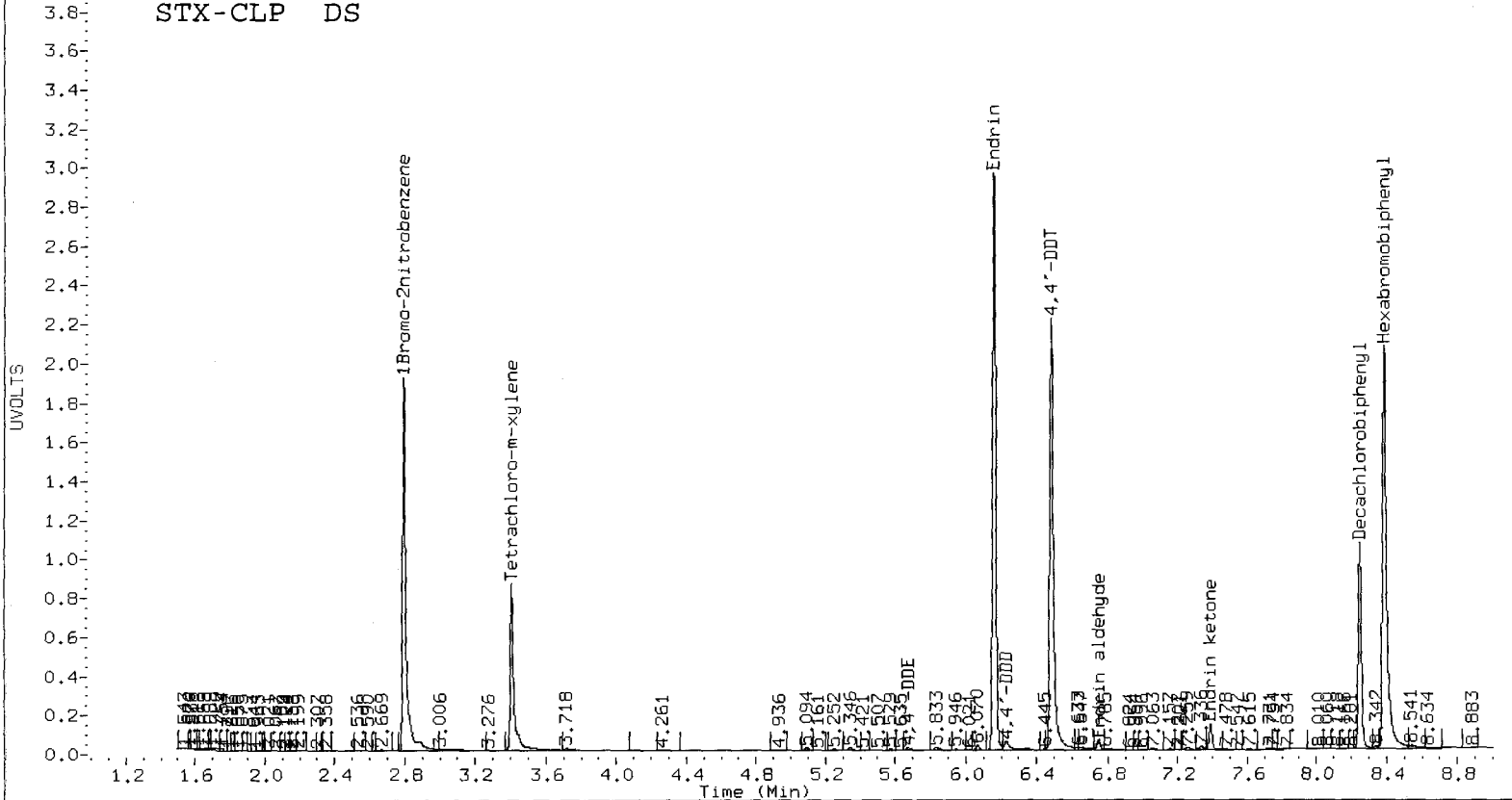
GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.209 | 268703 |
| Endrin | 6.663 | 15667414 |
| 4,4'-DDD | 6.749 | 728359 |
| 4,4'-DDT | 7.034 | 13764969 |
| Endrin ketone | 7.880 | 797118 |
| Endrin aldehyde | 7.157 | 459948 |

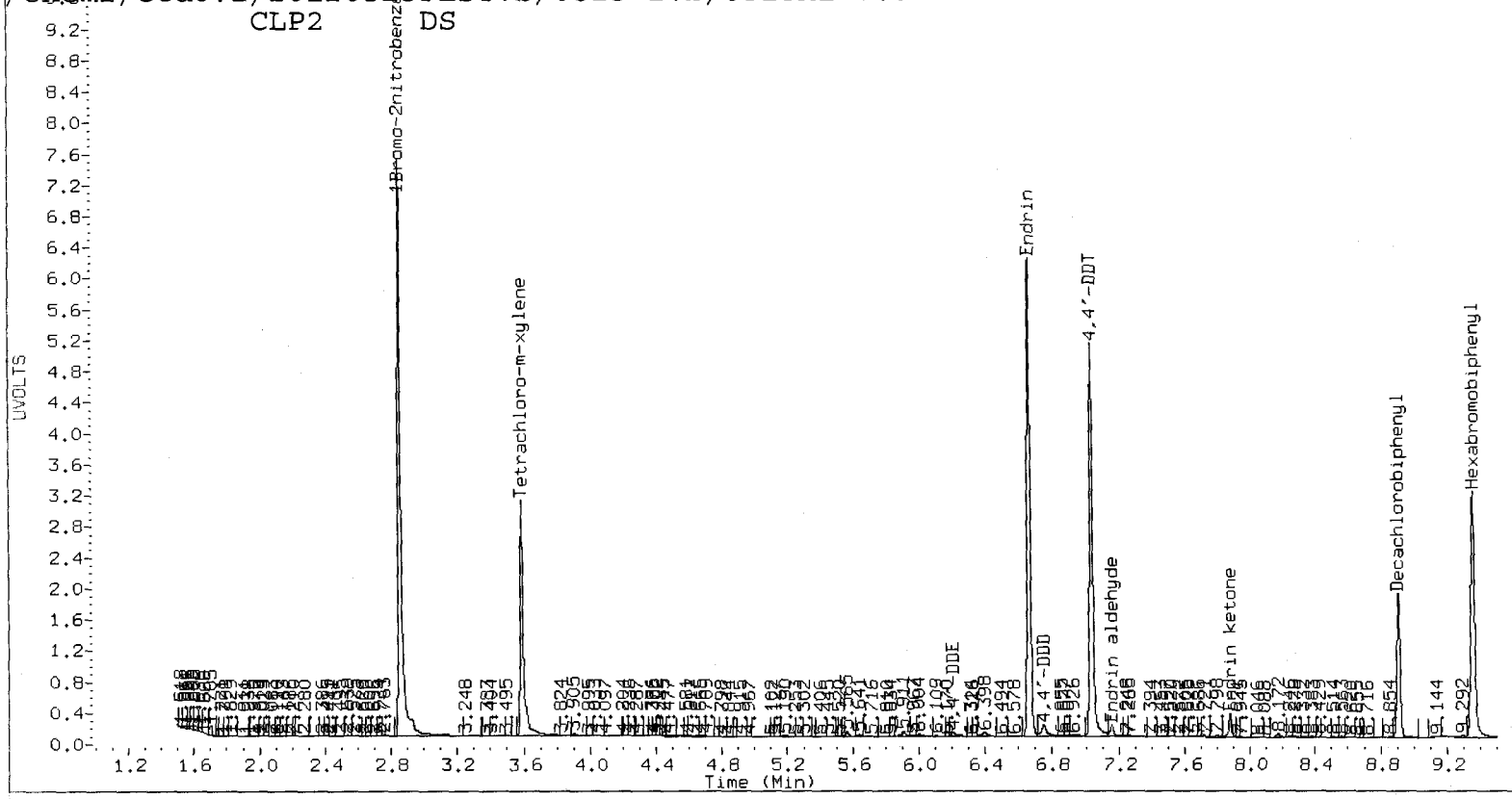
DDT Percent Breakdown = 6.8 %
((268703+728359) * 100)/(268703+728359+13764969)

Endrin Percent Breakdown = 7.4 %
((459948+797118) * 100)/(459948+797118+15667414)

STX-CLP DS



CLP2 DS



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,0241

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|------|
| | | FROM | TO | | | |
| alpha-BHC | 3.85 | 3.80 | 3.90 | 20.9 | 20.0 | 4.7 |
| beta-BHC | 4.18 | 4.13 | 4.23 | 20.0 | 20.0 | -0.1 |
| delta-BHC | 4.34 | 4.29 | 4.39 | 20.9 | 20.0 | 4.3 |
| gamma-BHC (Lindane) | 4.11 | 4.06 | 4.16 | 20.7 | 20.0 | 3.4 |
| Heptachlor | 4.52 | 4.47 | 4.57 | 20.7 | 20.0 | 3.6 |
| Aldrin | 4.79 | 4.74 | 4.84 | 20.9 | 20.0 | 4.3 |
| Heptachlor epoxide b | 5.35 | 5.30 | 5.40 | 20.1 | 20.0 | 0.7 |
| Endosulfan I | 5.72 | 5.67 | 5.77 | 19.6 | 20.0 | -1.9 |
| Dieldrin | 5.95 | 5.90 | 6.00 | 40.7 | 40.0 | 1.8 |
| 4,4'-DDE | 5.67 | 5.62 | 5.72 | 45.1 | 40.0 | 12.7 |
| Endrin | 6.16 | 6.11 | 6.21 | 39.8 | 40.0 | -0.4 |
| Endosulfan II | 6.37 | 6.32 | 6.42 | 39.1 | 40.0 | -2.2 |
| 4,4'-DDD | 6.23 | 6.18 | 6.28 | 41.6 | 40.0 | 3.9 |
| Endosulfan sulfate | 7.14 | 7.09 | 7.19 | 38.9 | 40.0 | -2.7 |
| 4,4'-DDT | 6.48 | 6.43 | 6.53 | 41.4 | 40.0 | 3.4 |
| Methoxychlor | 6.92 | 6.87 | 6.97 | 189.4 | 200.0 | -5.3 |
| Endrin ketone | 7.39 | 7.34 | 7.44 | 38.0 | 40.0 | -5.0 |
| Endrin aldehyde | 6.75 | 6.70 | 6.80 | 38.6 | 40.0 | -3.6 |
| gamma-Chlordane | 5.47 | 5.42 | 5.52 | 20.3 | 20.0 | 1.3 |
| alpha-Chlordane | 5.59 | 5.54 | 5.64 | 18.6 | 20.0 | -7.0 |
| Hexachlorobutadiene | 2.05 | 2.00 | 2.10 | 19.9 | 20.0 | -0.6 |
| Hexachlorobenzene | 3.72 | 3.67 | 3.77 | 19.4 | 20.0 | -2.8 |
| Tetrachloro-m-xylene | 3.41 | 3.36 | 3.46 | 39.5 | 40.0 | -1.2 |
| Decachlorobiphenyl | 8.25 | 8.20 | 8.30 | 36.8 | 40.0 | -8.1 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,0241

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.11 | 4.06 | 4.16 | 20.2 | 20.0 | 1.0 |
| beta-BHC | 4.50 | 4.45 | 4.55 | 18.9 | 20.0 | -5.4 |
| delta-BHC | 4.78 | 4.73 | 4.83 | 20.1 | 20.0 | 0.3 |
| gamma-BHC (Lindane) | 4.43 | 4.38 | 4.48 | 19.6 | 20.0 | -2.0 |
| Heptachlor | 4.85 | 4.80 | 4.90 | 19.1 | 20.0 | -4.6 |
| Aldrin | 5.17 | 5.12 | 5.22 | 19.3 | 20.0 | -3.5 |
| Heptachlor epoxide b | 5.73 | 5.68 | 5.78 | 19.3 | 20.0 | -3.5 |
| Endosulfan I | 6.12 | 6.07 | 6.17 | 19.1 | 20.0 | -4.5 |
| Dieldrin | 6.38 | 6.33 | 6.43 | 38.7 | 40.0 | -3.2 |
| 4,4'-DDE | 6.21 | 6.16 | 6.26 | 39.4 | 40.0 | -1.6 |
| Endrin | 6.66 | 6.61 | 6.71 | 36.2 | 40.0 | -9.5 |
| Endosulfan II | 6.86 | 6.81 | 6.91 | 35.6 | 40.0 | -11.1 |
| 4,4'-DDD | 6.75 | 6.70 | 6.80 | 37.0 | 40.0 | -7.6 |
| Endosulfan sulfate | 7.40 | 7.35 | 7.45 | 36.4 | 40.0 | -9.1 |
| 4,4'-DDT | 7.03 | 6.98 | 7.08 | 37.8 | 40.0 | -5.5 |
| Methoxychlor | 7.63 | 7.58 | 7.68 | 164.1 | 200.0 | -17.9 |
| Endrin ketone | 7.88 | 7.83 | 7.93 | 36.6 | 40.0 | -8.4 |
| Endrin aldehyde | 7.16 | 7.11 | 7.21 | 35.4 | 40.0 | -11.6 |
| gamma-Chlordane | 5.92 | 5.87 | 5.97 | 19.7 | 20.0 | -1.3 |
| alpha-Chlordane | 6.06 | 6.01 | 6.11 | 19.3 | 20.0 | -3.7 |
| Hexachlorobutadiene | 2.11 | 2.06 | 2.16 | 19.0 | 20.0 | -5.1 |
| Hexachlorobenzene | 4.00 | 3.94 | 4.04 | 19.3 | 20.0 | -3.3 |
| Tetrachloro-m-xylene | 3.59 | 3.54 | 3.64 | 39.4 | 40.0 | -1.6 |
| Decachlorobiphenyl | 8.91 | 8.86 | 8.96 | 37.0 | 40.0 | -7.4 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 25-MAY-2012 07:08

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.674 | 61750 |
| Endrin | 6.163 | 7164509 |
| 4,4'-DDD | 6.231 | 279308 |
| 4,4'-DDT | 6.484 | 6331123 |
| Endrin ketone | 7.388 | 355397 |
| Endrin aldehyde | 6.749 | 152508 |

DDT Percent Breakdown = 5.1 %
 $((61750+279308) * 100) / (61750+279308+6331123)$

Endrin Percent Breakdown = 6.6 %
 $((152508+355397) * 100) / (152508+355397+7164509)$

GC Column: STX-CLP2 ID: 0.53 (mm)

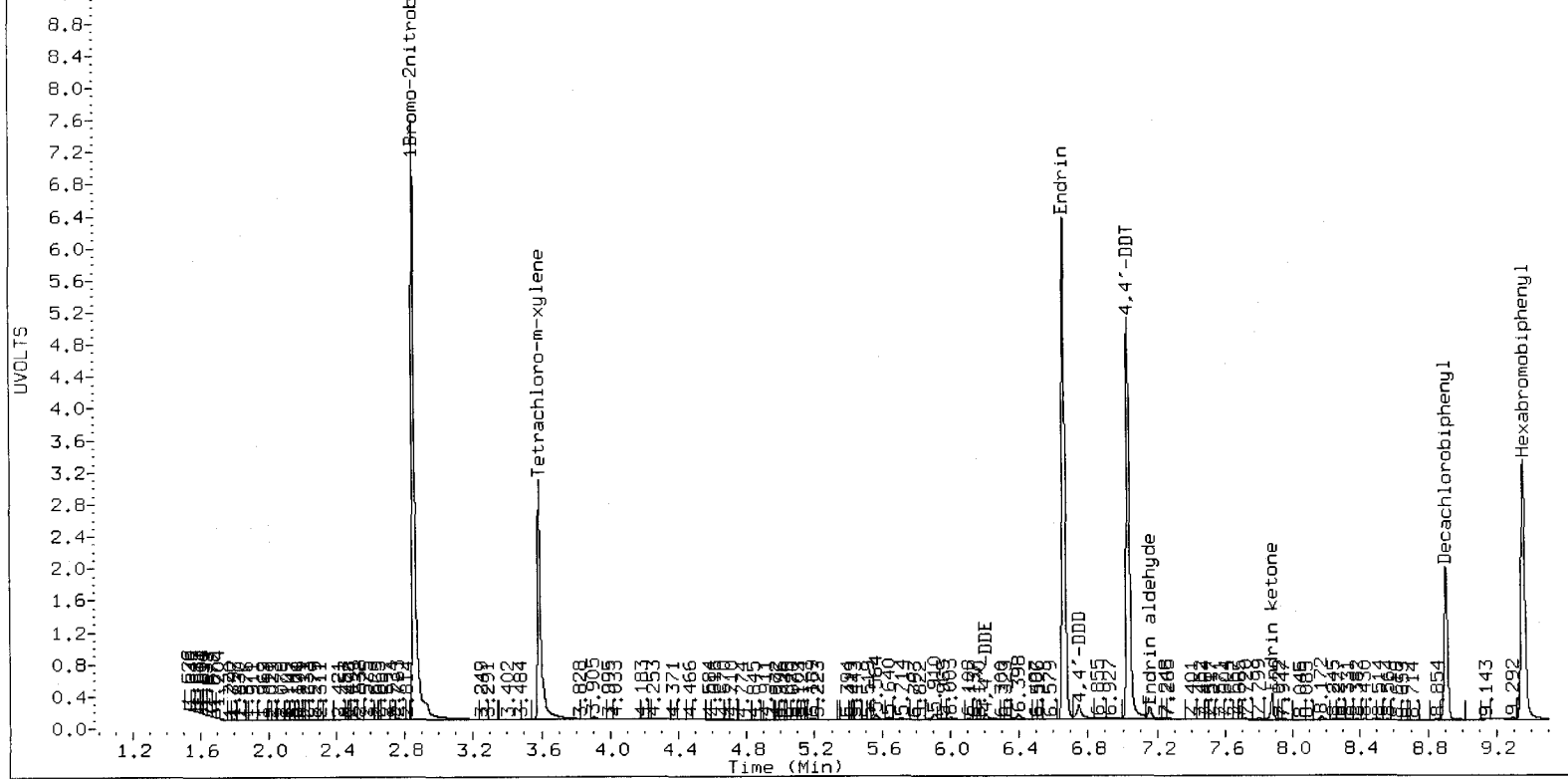
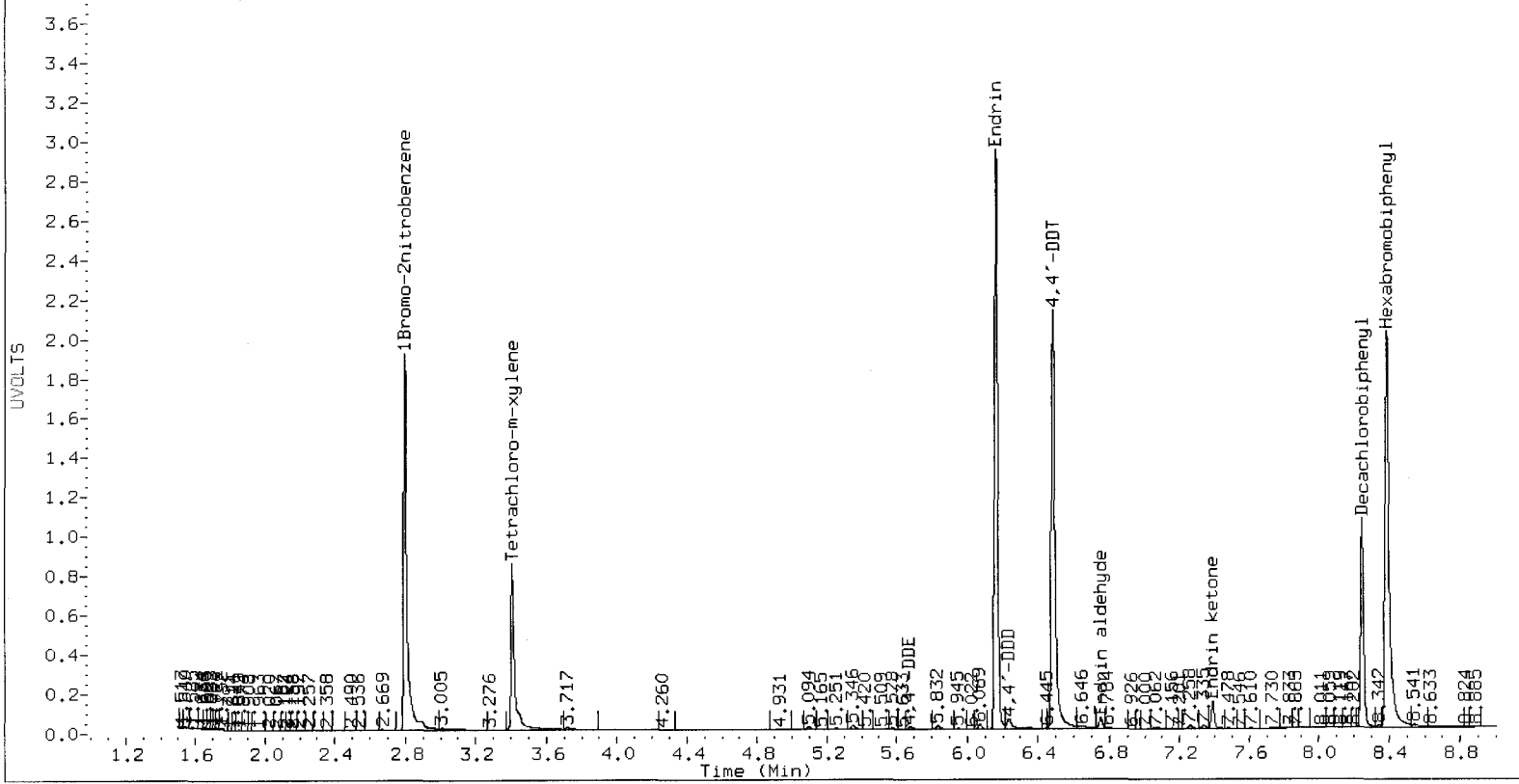
| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.209 | 290928 |
| Endrin | 6.662 | 15862156 |
| 4,4'-DDD | 6.748 | 831899 |
| 4,4'-DDT | 7.033 | 13787412 |
| Endrin ketone | 7.879 | 867868 |
| Endrin aldehyde | 7.157 | 499203 |

DDT Percent Breakdown = 7.5 %
 $((290928+831899) * 100) / (290928+831899+13787412)$

Endrin Percent Breakdown = 7.9 %
 $((499203+867868) * 100) / (499203+867868+15862156)$

Form VII Pest-1

UU52:00155



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,0726

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|------|
| | | FROM | TO | | | |
| alpha-BHC | 3.85 | 3.80 | 3.90 | 21.1 | 20.0 | 5.5 |
| beta-BHC | 4.18 | 4.13 | 4.23 | 20.1 | 20.0 | 0.6 |
| delta-BHC | 4.34 | 4.29 | 4.39 | 21.1 | 20.0 | 5.4 |
| gamma-BHC (Lindane) | 4.11 | 4.06 | 4.16 | 20.8 | 20.0 | 4.0 |
| Heptachlor | 4.52 | 4.47 | 4.57 | 20.9 | 20.0 | 4.3 |
| Aldrin | 4.79 | 4.74 | 4.84 | 21.0 | 20.0 | 5.0 |
| Heptachlor epoxide b | 5.35 | 5.30 | 5.40 | 20.1 | 20.0 | 0.7 |
| Endosulfan I | 5.72 | 5.67 | 5.77 | 19.6 | 20.0 | -2.0 |
| Dieldrin | 5.95 | 5.90 | 6.00 | 40.9 | 40.0 | 2.2 |
| 4,4'-DDE | 5.67 | 5.62 | 5.72 | 46.0 | 40.0 | 15.0 |
| Endrin | 6.16 | 6.11 | 6.21 | 39.8 | 40.0 | -0.5 |
| Endosulfan II | 6.37 | 6.32 | 6.42 | 38.9 | 40.0 | -2.7 |
| 4,4'-DDD | 6.23 | 6.18 | 6.28 | 41.5 | 40.0 | 3.6 |
| Endosulfan sulfate | 7.14 | 7.09 | 7.19 | 38.8 | 40.0 | -2.9 |
| 4,4'-DDT | 6.48 | 6.43 | 6.53 | 41.2 | 40.0 | 3.0 |
| Methoxychlor | 6.92 | 6.87 | 6.97 | 189.2 | 200.0 | -5.4 |
| Endrin ketone | 7.39 | 7.34 | 7.44 | 37.7 | 40.0 | -5.7 |
| Endrin aldehyde | 6.75 | 6.70 | 6.80 | 38.3 | 40.0 | -4.2 |
| gamma-Chlordane | 5.47 | 5.42 | 5.52 | 20.4 | 20.0 | 1.9 |
| alpha-Chlordane | 5.59 | 5.54 | 5.64 | 18.4 | 20.0 | -8.1 |
| Hexachlorobutadiene | 2.05 | 2.00 | 2.10 | 20.1 | 20.0 | 0.2 |
| Hexachlorobenzene | 3.72 | 3.67 | 3.77 | 19.5 | 20.0 | -2.4 |
| Tetrachloro-m-xylene | 3.41 | 3.36 | 3.46 | 39.8 | 40.0 | -0.6 |
| Decachlorobiphenyl | 8.25 | 8.20 | 8.30 | 36.8 | 40.0 | -8.1 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,0726

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.11 | 4.06 | 4.16 | 20.3 | 20.0 | 1.3 |
| beta-BHC | 4.50 | 4.45 | 4.55 | 19.0 | 20.0 | -5.2 |
| delta-BHC | 4.78 | 4.73 | 4.83 | 20.2 | 20.0 | 0.8 |
| gamma-BHC (Lindane) | 4.43 | 4.38 | 4.48 | 19.7 | 20.0 | -1.3 |
| Heptachlor | 4.85 | 4.80 | 4.90 | 19.1 | 20.0 | -4.6 |
| Aldrin | 5.17 | 5.12 | 5.22 | 19.3 | 20.0 | -3.3 |
| Heptachlor epoxide b | 5.73 | 5.68 | 5.78 | 19.3 | 20.0 | -3.3 |
| Endosulfan I | 6.12 | 6.07 | 6.17 | 19.2 | 20.0 | -3.9 |
| Dieldrin | 6.37 | 6.33 | 6.43 | 38.8 | 40.0 | -3.1 |
| 4,4'-DDE | 6.21 | 6.16 | 6.26 | 39.8 | 40.0 | -0.4 |
| Endrin | 6.66 | 6.61 | 6.71 | 36.1 | 40.0 | -9.6 |
| Endosulfan II | 6.86 | 6.81 | 6.91 | 35.9 | 40.0 | -10.4 |
| 4,4'-DDD | 6.75 | 6.70 | 6.80 | 36.9 | 40.0 | -7.8 |
| Endosulfan sulfate | 7.40 | 7.35 | 7.45 | 36.3 | 40.0 | -9.3 |
| 4,4'-DDT | 7.03 | 6.98 | 7.08 | 37.7 | 40.0 | -5.8 |
| Methoxychlor | 7.63 | 7.58 | 7.68 | 162.9 | 200.0 | -18.5 |
| Endrin ketone | 7.88 | 7.83 | 7.93 | 36.5 | 40.0 | -8.8 |
| Endrin aldehyde | 7.16 | 7.11 | 7.21 | 35.1 | 40.0 | -12.2 |
| gamma-Chlordane | 5.92 | 5.87 | 5.97 | 19.9 | 20.0 | -0.6 |
| alpha-Chlordane | 6.06 | 6.01 | 6.11 | 19.4 | 20.0 | -3.1 |
| Hexachlorobutadiene | 2.11 | 2.06 | 2.16 | 19.0 | 20.0 | -5.0 |
| Hexachlorobenzene | 3.99 | 3.94 | 4.04 | 19.4 | 20.0 | -3.2 |
| Tetrachloro-m-xylene | 3.59 | 3.54 | 3.64 | 39.4 | 40.0 | -1.5 |
| Decachlorobiphenyl | 8.91 | 8.86 | 8.96 | 37.1 | 40.0 | -7.3 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 25-MAY-2012 10:24

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.674 | 67411 |
| Endrin | 6.162 | 7786639 |
| 4,4'-DDD | 6.230 | 311251 |
| 4,4'-DDT | 6.484 | 6874710 |
| Endrin ketone | 7.388 | 377111 |
| Endrin aldehyde | 6.748 | 161016 |

DDT Percent Breakdown = 5.2 %
((67411+311251) * 100)/(67411+311251+6874710)

Endrin Percent Breakdown = 6.5 %
((161016+377111) * 100)/(161016+377111+7786639)

GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.207 | 303621 |
| Endrin | 6.662 | 16024257 |
| 4,4'-DDD | 6.747 | 865792 |
| 4,4'-DDT | 7.032 | 13823879 |
| Endrin ketone | 7.879 | 863471 |
| Endrin aldehyde | 7.156 | 487468 |

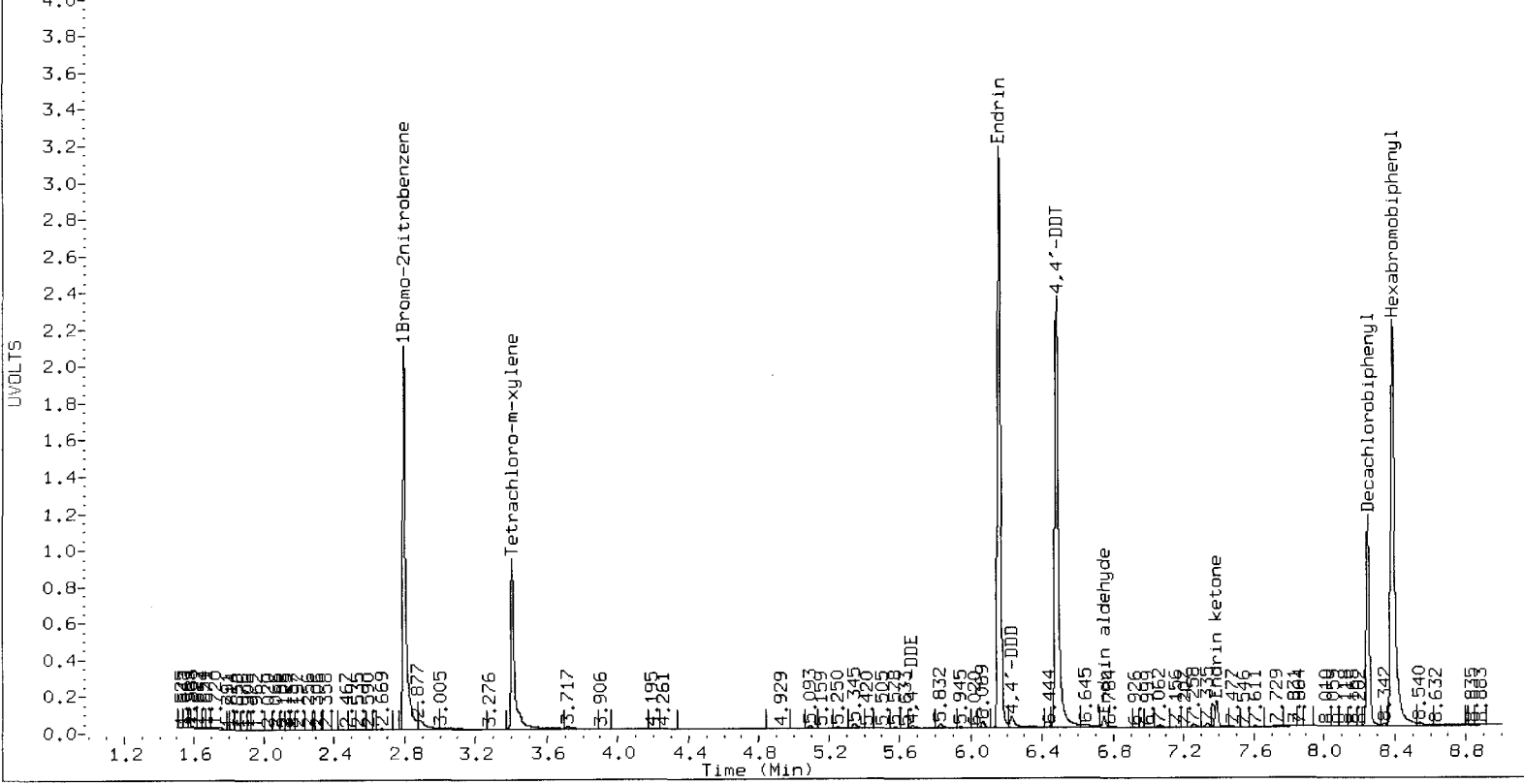
DDT Percent Breakdown = 7.8 %
((303621+865792) * 100)/(303621+865792+13823879)

Endrin Percent Breakdown = 7.8 %
((487468+863471) * 100)/(487468+863471+16024257)

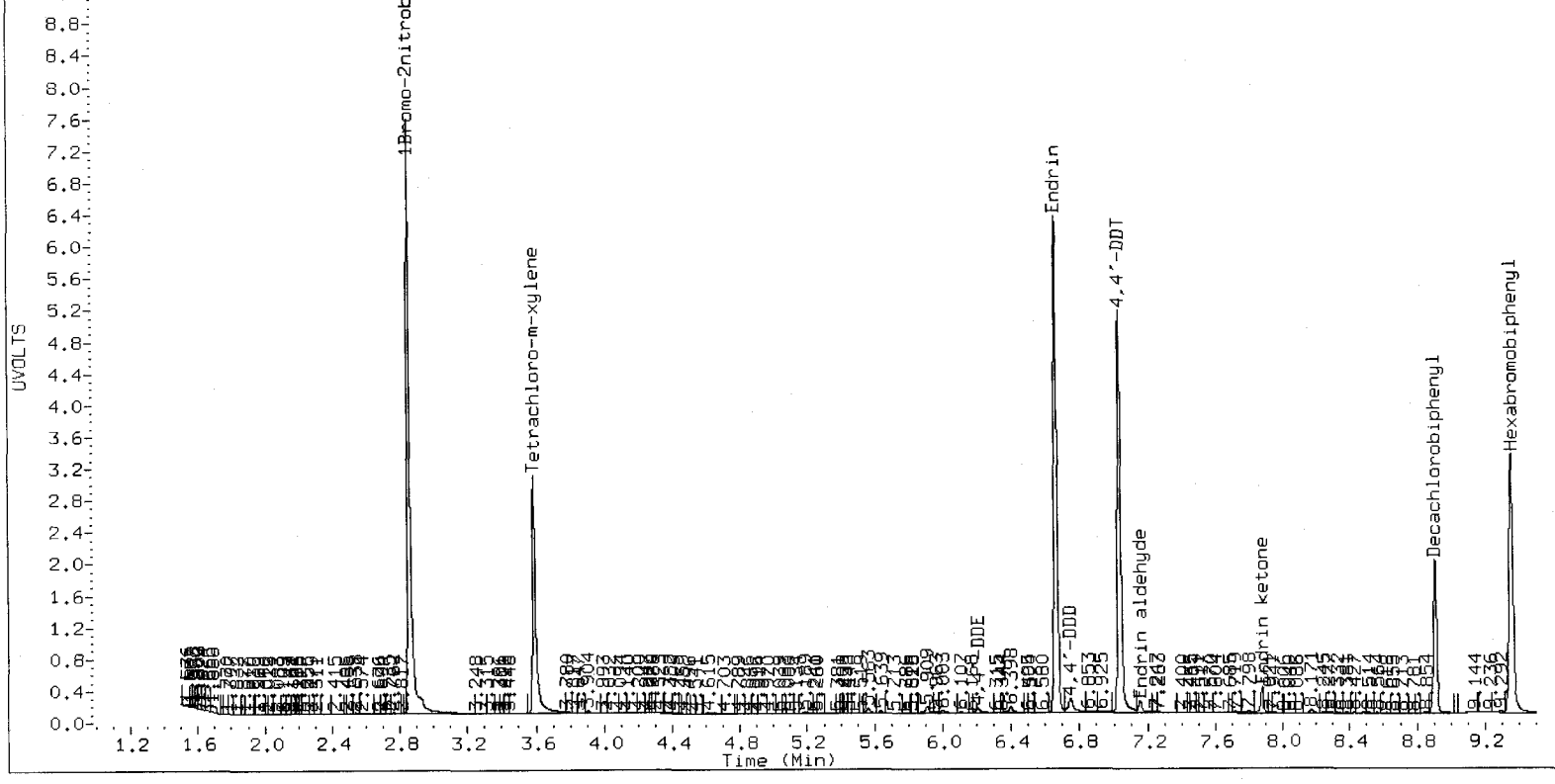
Form VII Pest-1

UU52:00159

chem2/ecd6.i/20120523PEST.b/0523-1A1b/0523A154.d
STX-CLP DS



chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A154.d
CLP2 DS



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,1042

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|------|
| | | FROM | TO | | | |
| alpha-BHC | 3.85 | 3.80 | 3.90 | 21.0 | 20.0 | 4.8 |
| beta-BHC | 4.18 | 4.13 | 4.23 | 20.1 | 20.0 | 0.4 |
| delta-BHC | 4.34 | 4.29 | 4.39 | 20.9 | 20.0 | 4.7 |
| gamma-BHC (Lindane) | 4.11 | 4.06 | 4.16 | 20.7 | 20.0 | 3.4 |
| Heptachlor | 4.52 | 4.47 | 4.57 | 20.7 | 20.0 | 3.6 |
| Aldrin | 4.79 | 4.74 | 4.84 | 20.8 | 20.0 | 4.2 |
| Heptachlor epoxide b | 5.34 | 5.30 | 5.40 | 20.1 | 20.0 | 0.3 |
| Endosulfan I | 5.72 | 5.67 | 5.77 | 19.4 | 20.0 | -2.8 |
| Dieldrin | 5.95 | 5.90 | 6.00 | 40.7 | 40.0 | 1.7 |
| 4,4'-DDE | 5.67 | 5.62 | 5.72 | 46.6 | 40.0 | 16.4 |
| Endrin | 6.16 | 6.11 | 6.21 | 39.6 | 40.0 | -1.0 |
| Endosulfan II | 6.37 | 6.32 | 6.42 | 38.6 | 40.0 | -3.5 |
| 4,4'-DDD | 6.23 | 6.18 | 6.28 | 41.6 | 40.0 | 4.1 |
| Endosulfan sulfate | 7.14 | 7.09 | 7.19 | 38.5 | 40.0 | -3.8 |
| 4,4'-DDT | 6.48 | 6.43 | 6.53 | 40.9 | 40.0 | 2.4 |
| Methoxychlor | 6.92 | 6.87 | 6.97 | 187.9 | 200.0 | -6.0 |
| Endrin ketone | 7.39 | 7.34 | 7.44 | 37.4 | 40.0 | -6.4 |
| Endrin aldehyde | 6.75 | 6.70 | 6.80 | 38.0 | 40.0 | -5.0 |
| gamma-Chlordane | 5.47 | 5.42 | 5.52 | 20.3 | 20.0 | 1.6 |
| alpha-Chlordane | 5.59 | 5.54 | 5.64 | 18.1 | 20.0 | -9.3 |
| Hexachlorobutadiene | 2.05 | 2.00 | 2.10 | 19.8 | 20.0 | -1.1 |
| Hexachlorobenzene | 3.72 | 3.67 | 3.77 | 19.5 | 20.0 | -2.5 |
| Tetrachloro-m-xylene | 3.41 | 3.36 | 3.46 | 39.6 | 40.0 | -1.0 |
| Decachlorobiphenyl | 8.25 | 8.20 | 8.30 | 36.7 | 40.0 | -8.4 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/23/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/25/12,1042

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.11 | 4.06 | 4.16 | 20.2 | 20.0 | 0.8 |
| beta-BHC | 4.50 | 4.45 | 4.55 | 19.0 | 20.0 | -5.1 |
| delta-BHC | 4.78 | 4.73 | 4.83 | 20.2 | 20.0 | 1.0 |
| gamma-BHC (Lindane) | 4.43 | 4.38 | 4.48 | 19.7 | 20.0 | -1.5 |
| Heptachlor | 4.85 | 4.80 | 4.90 | 19.3 | 20.0 | -3.4 |
| Aldrin | 5.17 | 5.12 | 5.22 | 19.4 | 20.0 | -3.1 |
| Heptachlor epoxide b | 5.73 | 5.68 | 5.78 | 19.5 | 20.0 | -2.4 |
| Endosulfan I | 6.11 | 6.07 | 6.17 | 19.3 | 20.0 | -3.5 |
| Dieldrin | 6.37 | 6.33 | 6.43 | 39.1 | 40.0 | -2.2 |
| 4,4'-DDE | 6.21 | 6.16 | 6.26 | 40.2 | 40.0 | 0.5 |
| Endrin | 6.66 | 6.61 | 6.71 | 36.9 | 40.0 | -7.8 |
| Endosulfan II | 6.85 | 6.81 | 6.91 | 36.1 | 40.0 | -9.8 |
| 4,4'-DDD | 6.75 | 6.70 | 6.80 | 37.9 | 40.0 | -5.4 |
| Endosulfan sulfate | 7.40 | 7.35 | 7.45 | 36.9 | 40.0 | -7.6 |
| 4,4'-DDT | 7.03 | 6.98 | 7.08 | 38.4 | 40.0 | -4.1 |
| Methoxychlor | 7.63 | 7.58 | 7.68 | 165.6 | 200.0 | -17.2 |
| Endrin ketone | 7.88 | 7.83 | 7.93 | 37.2 | 40.0 | -6.9 |
| Endrin aldehyde | 7.16 | 7.11 | 7.21 | 35.6 | 40.0 | -10.9 |
| gamma-Chlordane | 5.92 | 5.87 | 5.97 | 20.0 | 20.0 | -0.1 |
| alpha-Chlordane | 6.05 | 6.01 | 6.11 | 19.5 | 20.0 | -2.7 |
| Hexachlorobutadiene | 2.11 | 2.06 | 2.16 | 18.8 | 20.0 | -6.1 |
| Hexachlorobenzene | 3.99 | 3.94 | 4.04 | 19.4 | 20.0 | -2.8 |
| Tetrachloro-m-xylene | 3.59 | 3.54 | 3.64 | 39.7 | 40.0 | -0.9 |
| Decachlorobiphenyl | 8.91 | 8.86 | 8.96 | 38.0 | 40.0 | -4.9 |

ECD8

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120525PEST

Analysis Date: 26-MAY-2012 00:58

Init. Calib. Date: 25-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 6.349 | 19995 |
| Endrin | 6.814 | 1819185 |
| 4,4'-DDD | 6.886 | 107049 |
| 4,4'-DDT | 7.130 | 1027435 |
| Endrin ketone | 8.060 | 83939 |
| Endrin aldehyde | 7.400 | 45095 |

DDT Percent Breakdown = 11.0 %
 $((19995+107049) * 100) / (19995+107049+1027435)$

Endrin Percent Breakdown = 6.6 %
 $((45095+83939) * 100) / (45095+83939+1819185)$

GC Column: STX-CLP2 ID: 0.53 (mm)

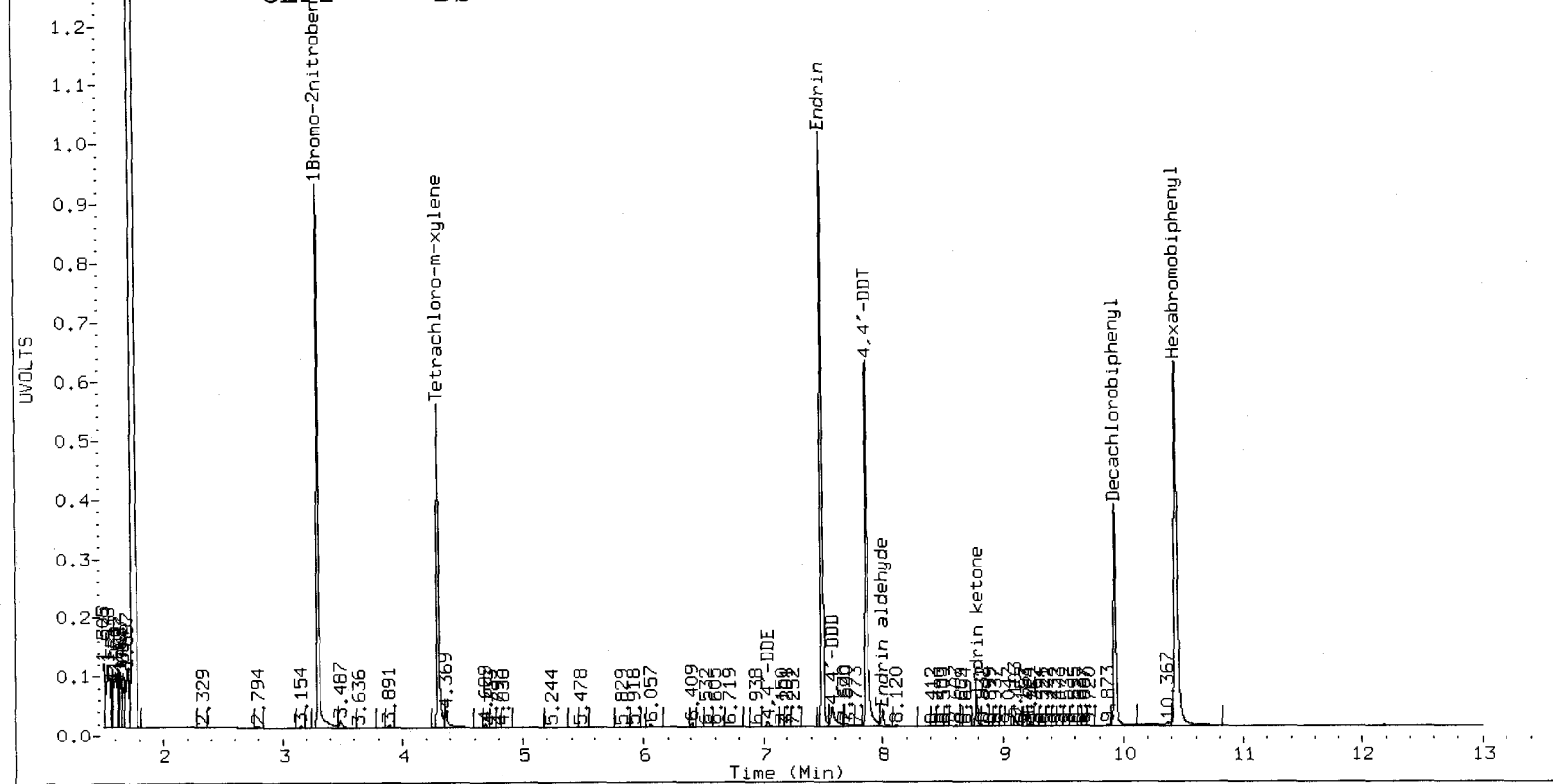
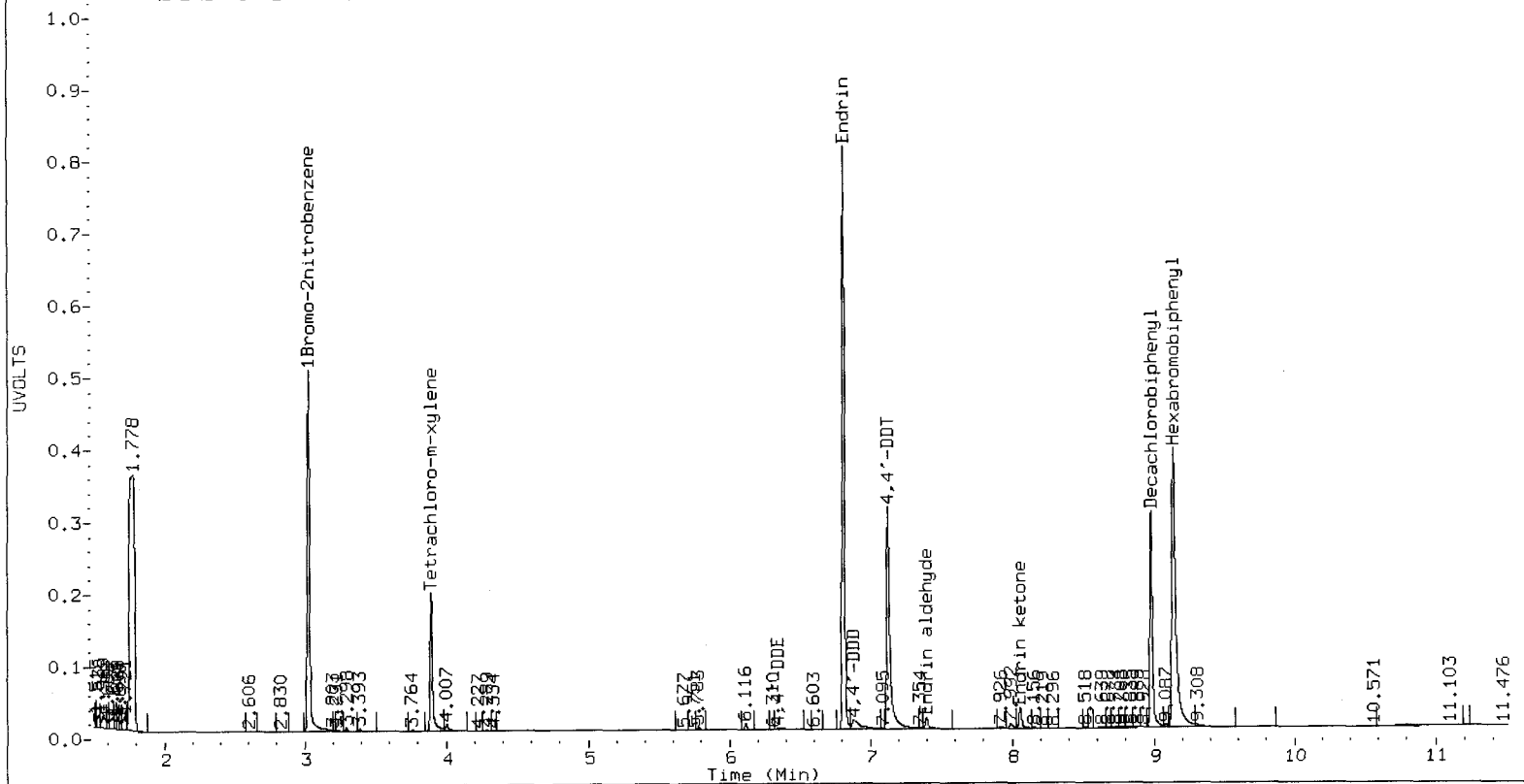
| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 7.031 | 38650 |
| Endrin | 7.492 | 2327518 |
| 4,4'-DDD | 7.572 | 172813 |
| 4,4'-DDT | 7.863 | 1769991 |
| Endrin ketone | 8.784 | 132641 |
| Endrin aldehyde | 8.001 | 93851 |

DDT Percent Breakdown = 10.7 %
 $((38650+172813) * 100) / (38650+172813+1769991)$

Endrin Percent Breakdown = 8.9 %
 $((93851+132641) * 100) / (93851+132641+2327518)$

Form VII Pest-1

UUS2:00163



7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120525PEST

Analysis Date: 26-MAY-2012 05:41

Init. Calib. Date: 25-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 6.341 | 6865 |
| Endrin | 6.814 | 2185317 |
| 4,4'-DDD | 6.880 | 108051 |
| 4,4'-DDT | 7.127 | 1438504 |
| Endrin ketone | 8.059 | 118280 |
| Endrin aldehyde | 7.399 | 35526 |

DDT Percent Breakdown = 7.4 %
 $((6865+108051) * 100) / (6865+108051+1438504)$

Endrin Percent Breakdown = 6.6 %
 $((35526+118280) * 100) / (35526+118280+2185317)$

GC Column: STX-CLP2 ID: 0.53 (mm)

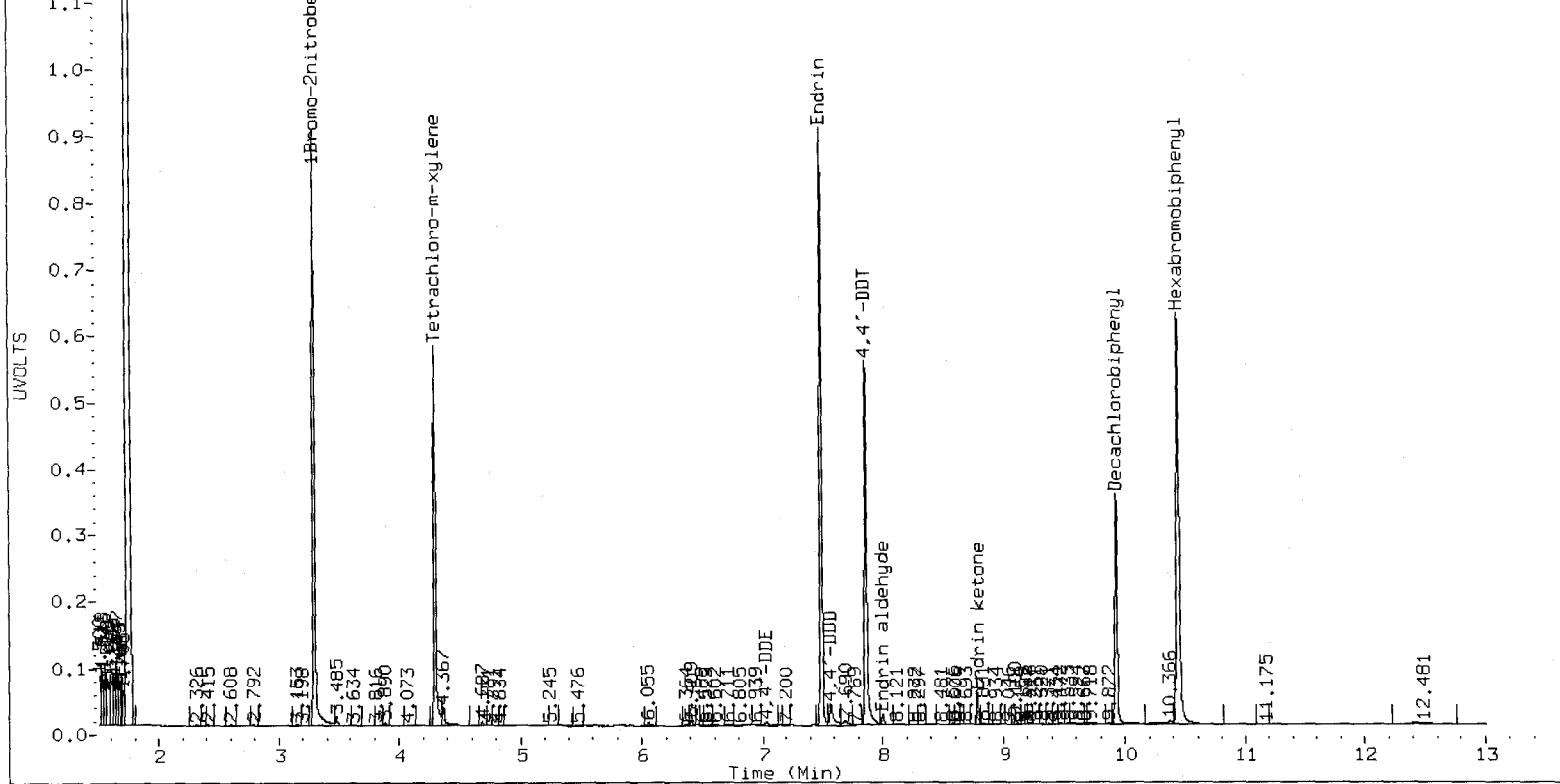
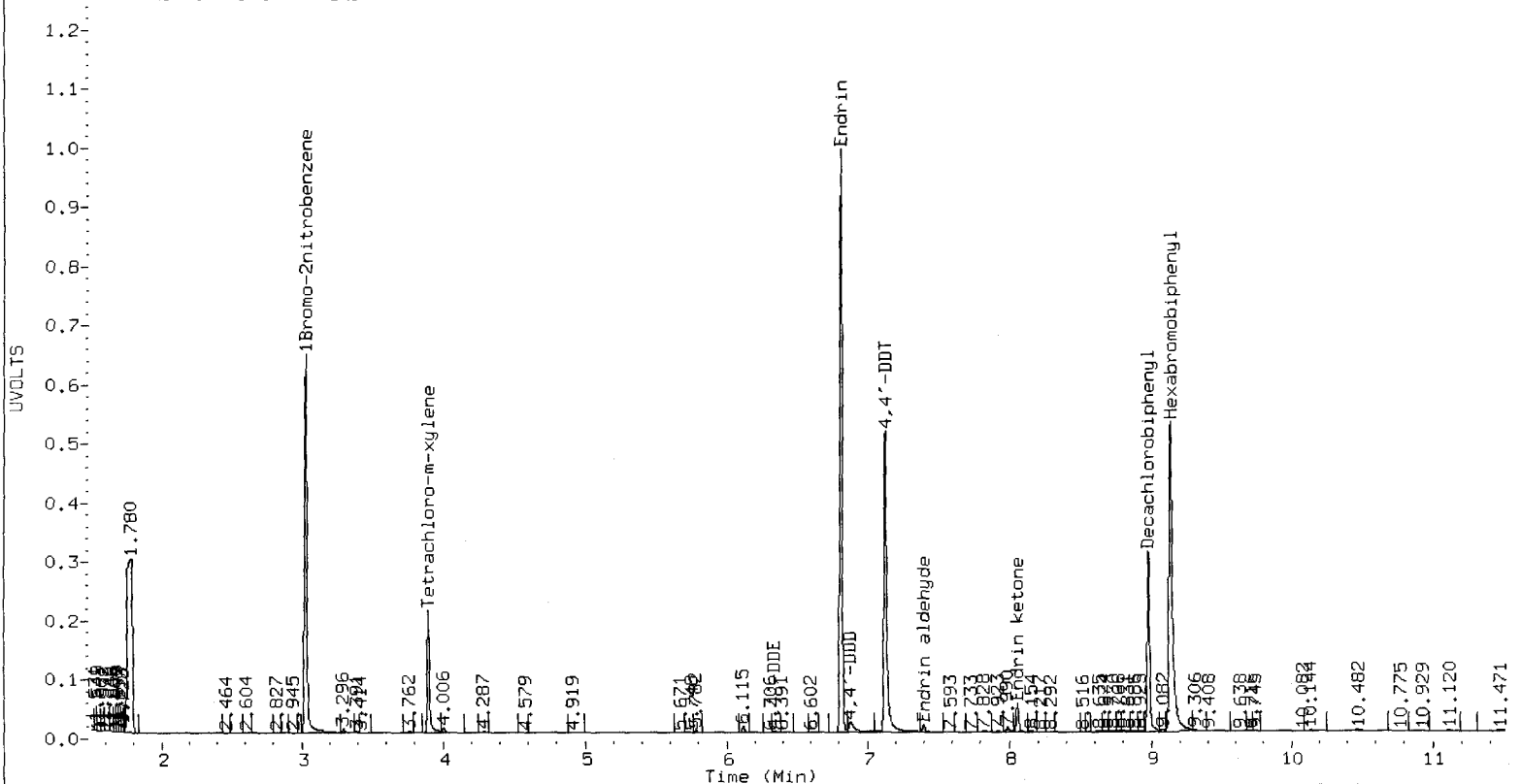
| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 7.027 | 18118 |
| Endrin | 7.491 | 2038815 |
| 4,4'-DDD | 7.569 | 136564 |
| 4,4'-DDT | 7.860 | 1410778 |
| Endrin ketone | 8.783 | 118093 |
| Endrin aldehyde | 8.000 | 51598 |

DDT Percent Breakdown = 9.9 %
 $((18118+136564) * 100) / (18118+136564+1410778)$

Endrin Percent Breakdown = 7.7 %
 $((51598+118093) * 100) / (51598+118093+2038815)$

Form VII Pest-1

UU52:00165



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,0600

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.45 | 4.40 | 4.50 | 21.2 | 20.0 | 6.2 |
| beta-BHC | 4.85 | 4.80 | 4.90 | 19.1 | 20.0 | -4.4 |
| delta-BHC | 5.01 | 4.96 | 5.06 | 21.3 | 20.0 | 6.7 |
| gamma-BHC (Lindane) | 4.76 | 4.71 | 4.81 | 22.4 | 20.0 | 11.8 |
| Heptachlor | 5.20 | 5.15 | 5.25 | 23.0 | 20.0 | 15.1 |
| Aldrin | 5.48 | 5.43 | 5.53 | 20.9 | 20.0 | 4.7 |
| Heptachlor epoxide b | 6.03 | 5.98 | 6.08 | 20.4 | 20.0 | 2.1 |
| Endosulfan I | 6.39 | 6.33 | 6.43 | 17.9 | 20.0 | -10.4 |
| Dieldrin | 6.60 | 6.55 | 6.65 | 43.4 | 40.0 | 8.4 |
| 4,4'-DDE | 6.34 | 6.29 | 6.39 | 33.5 | 40.0 | -16.3 |
| Endrin | 6.81 | 6.76 | 6.86 | 47.4 | 40.0 | 18.5 |
| Endosulfan II | 7.02 | 6.97 | 7.07 | 45.9 | 40.0 | 14.7 |
| 4,4'-DDD | 6.88 | 6.82 | 6.92 | 43.2 | 40.0 | 8.0 |
| Endosulfan sulfate | 7.80 | 7.75 | 7.85 | 46.4 | 40.0 | 15.9 |
| 4,4'-DDT | 7.13 | 7.07 | 7.17 | 44.1 | 40.0 | 10.2 |
| Methoxychlor | 7.57 | 7.51 | 7.61 | 225.6 | 200.0 | 12.8 |
| Endrin ketone | 8.06 | 8.01 | 8.11 | 46.9 | 40.0 | 17.3 |
| Endrin aldehyde | 7.40 | 7.35 | 7.45 | 44.0 | 40.0 | 10.0 |
| gamma-Chlordane | 6.14 | 6.09 | 6.19 | 21.2 | 20.0 | 6.0 |
| alpha-Chlordane | 6.26 | 6.21 | 6.31 | 19.9 | 20.0 | -0.5 |
| Hexachlorobutadiene | 1.73 | 1.68 | 1.78 | 16.9 | 20.0 | -15.4 |
| Hexachlorobenzene | 4.29 | 4.24 | 4.34 | 15.6 | 20.0 | -22.1 |
| Tetrachloro-m-xylene | 3.90 | 3.85 | 3.95 | 31.5 | 40.0 | -21.4 |
| Decachlorobiphenyl | 8.98 | 8.93 | 9.03 | 32.1 | 40.0 | -19.9 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,0600

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.93 | 4.88 | 4.98 | 20.6 | 20.0 | 3.2 |
| beta-BHC | 5.37 | 5.32 | 5.42 | 19.0 | 20.0 | -5.0 |
| delta-BHC | 5.65 | 5.60 | 5.70 | 21.7 | 20.0 | 8.4 |
| gamma-BHC (Lindane) | 5.28 | 5.23 | 5.33 | 20.6 | 20.0 | 2.8 |
| Heptachlor | 5.71 | 5.66 | 5.76 | 20.0 | 20.0 | -0.0 |
| Aldrin | 6.03 | 5.98 | 6.08 | 19.6 | 20.0 | -2.0 |
| Heptachlor epoxide b | 6.57 | 6.52 | 6.62 | 18.3 | 20.0 | -8.4 |
| Endosulfan I | 6.94 | 6.89 | 6.99 | 18.1 | 20.0 | -9.5 |
| Dieldrin | 7.20 | 7.15 | 7.25 | 36.6 | 40.0 | -8.5 |
| 4,4'-DDE | 7.03 | 6.97 | 7.07 | 37.1 | 40.0 | -7.3 |
| Endrin | 7.49 | 7.44 | 7.54 | 36.4 | 40.0 | -9.1 |
| Endosulfan II | 7.69 | 7.64 | 7.74 | 38.5 | 40.0 | -3.8 |
| 4,4'-DDD | 7.57 | 7.51 | 7.61 | 37.8 | 40.0 | -5.4 |
| Endosulfan sulfate | 8.26 | 8.21 | 8.31 | 38.6 | 40.0 | -3.6 |
| 4,4'-DDT | 7.86 | 7.81 | 7.91 | 43.2 | 40.0 | 7.9 |
| Methoxychlor | 8.49 | 8.44 | 8.54 | 197.8 | 200.0 | -1.1 |
| Endrin ketone | 8.78 | 8.73 | 8.83 | 36.8 | 40.0 | -8.0 |
| Endrin aldehyde | 8.00 | 7.95 | 8.05 | 36.1 | 40.0 | -9.8 |
| gamma-Chlordane | 6.75 | 6.70 | 6.80 | 19.0 | 20.0 | -5.0 |
| alpha-Chlordane | 6.88 | 6.83 | 6.93 | 18.5 | 20.0 | -7.4 |
| Hexachlorobutadiene | 2.04 | 1.99 | 2.09 | 16.7 | 20.0 | -16.4 |
| Hexachlorobenzene | 4.79 | 4.74 | 4.84 | 16.6 | 20.0 | -17.1 |
| Tetrachloro-m-xylene | 4.30 | 4.25 | 4.35 | 33.9 | 40.0 | -15.4 |
| Decachlorobiphenyl | 9.92 | 9.87 | 9.97 | 33.1 | 40.0 | -17.1 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120525PEST

Analysis Date: 26-MAY-2012 10:24

Init. Calib. Date: 25-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 6.343 | 14333 |
| Endrin | 6.815 | 2221952 |
| 4,4'-DDD | 6.883 | 323880 |
| 4,4'-DDT | 7.129 | 890499 |
| Endrin ketone | 8.060 | 124457 |
| Endrin aldehyde | 7.400 | 33019 |

DDT Percent Breakdown = 27.5 %
 $((14333+323880) * 100) / (14333+323880+890499)$

Endrin Percent Breakdown = 6.6 %
 $((33019+124457) * 100) / (33019+124457+2221952)$

GC Column: STX-CLP2 ID: 0.53 (mm)

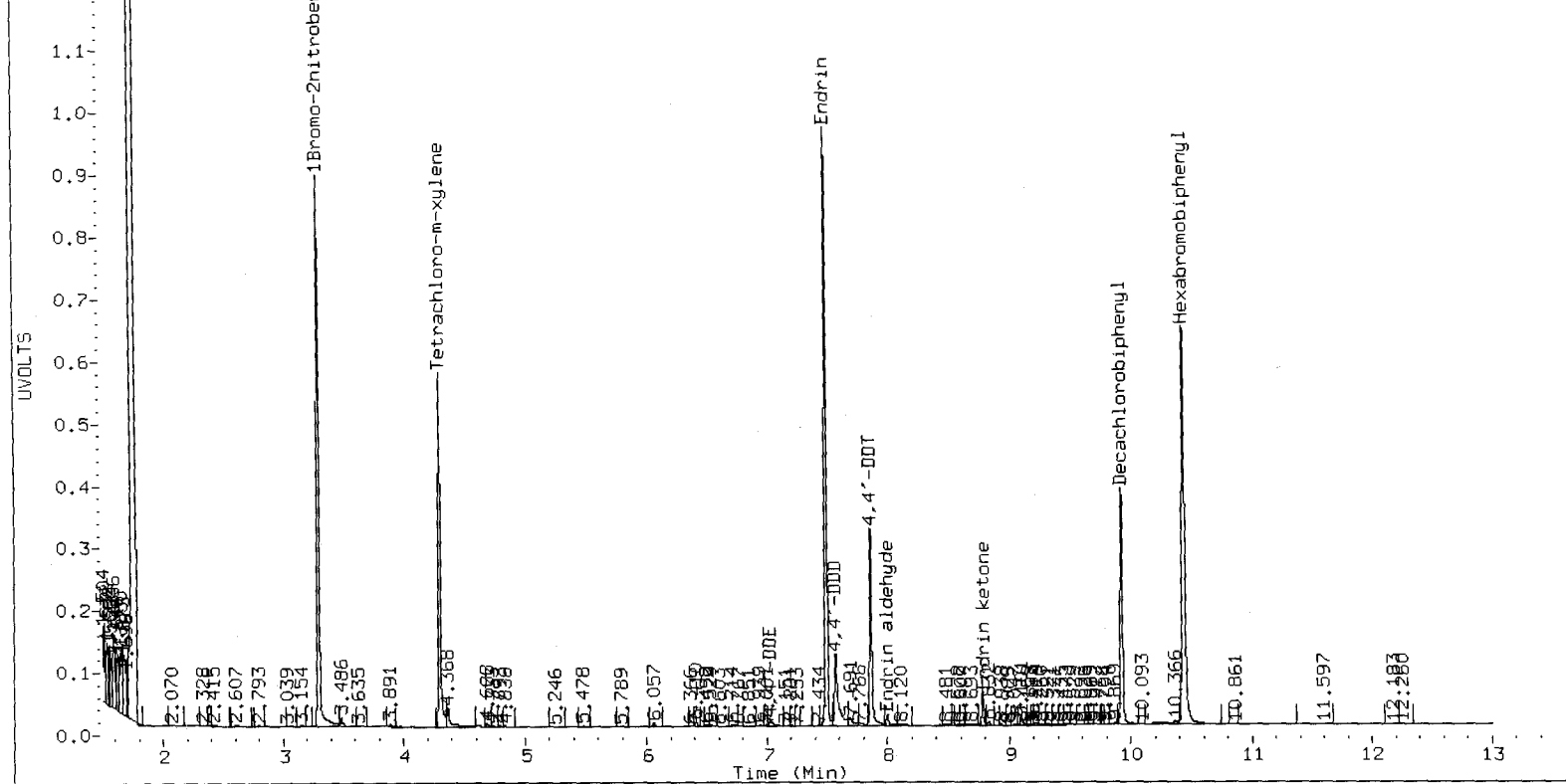
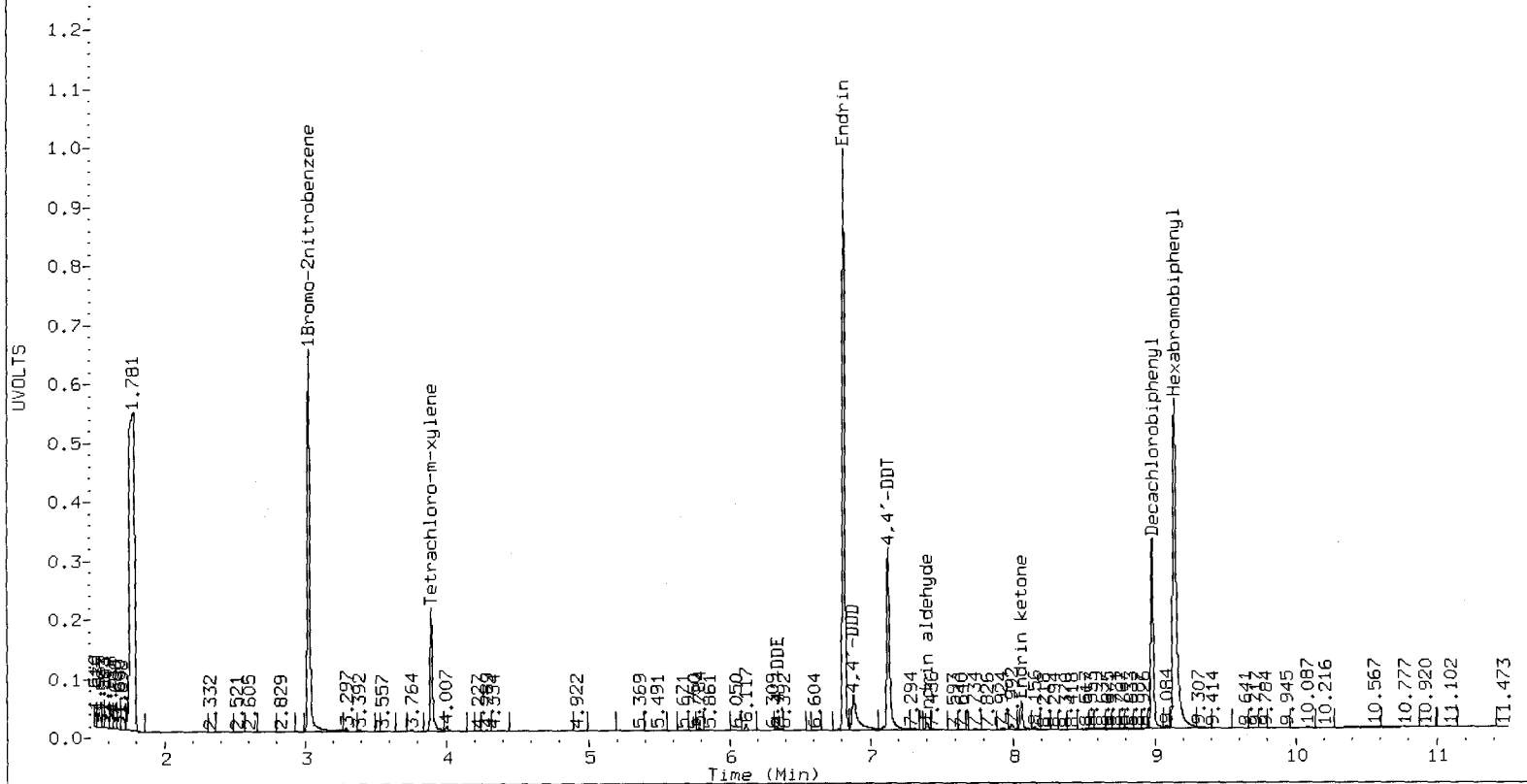
| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 7.028 | 38103 |
| Endrin | 7.492 | 2227506 |
| 4,4'-DDD | 7.570 | 502198 |
| 4,4'-DDT | 7.862 | 789110 |
| Endrin ketone | 8.783 | 128470 |
| Endrin aldehyde | 8.002 | 51421 |

DDT Percent Breakdown = 40.6 %
 $((38103+502198) * 100) / (38103+502198+789110)$

Endrin Percent Breakdown = 7.5 %
 $((51421+128470) * 100) / (51421+128470+2227506)$

Form VII Pest-1

0052:00159



8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,1043

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|----------------------|------|-----------|------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.45 | 4.40 | 4.50 | 18.9 | 20.0 | -5.6 |
| beta-BHC | 4.85 | 4.80 | 4.90 | 16.2 | 20.0 | -19.2 |
| delta-BHC | 5.01 | 4.96 | 5.06 | 17.5 | 20.0 | -12.4 |
| gamma-BHC (Lindane) | 4.76 | 4.71 | 4.81 | 19.4 | 20.0 | -3.2 |
| Heptachlor | 5.20 | 5.15 | 5.25 | 19.7 | 20.0 | -1.7 |
| Aldrin | 5.48 | 5.43 | 5.53 | 18.5 | 20.0 | -7.3 |
| Heptachlor epoxide b | 6.03 | 5.98 | 6.08 | 18.2 | 20.0 | -9.0 |
| Endosulfan I | 6.39 | 6.33 | 6.43 | 16.0 | 20.0 | -19.8 |
| Dieldrin | 6.60 | 6.55 | 6.65 | 38.7 | 40.0 | -3.2 |
| 4,4'-DDE | 6.34 | 6.29 | 6.39 | 29.4 | 40.0 | -26.6 |
| Endrin | 6.81 | 6.76 | 6.86 | 42.5 | 40.0 | 6.2 |
| Endosulfan II | 7.02 | 6.97 | 7.07 | 41.8 | 40.0 | 4.6 |
| 4,4'-DDD | 6.88 | 6.82 | 6.92 | 44.3 | 40.0 | 10.7 |
| Endosulfan sulfate | 7.80 | 7.75 | 7.85 | 41.6 | 40.0 | 4.0 |
| 4,4'-DDT | 7.13 | 7.07 | 7.17 | 32.4 | 40.0 | -18.9 |
| Methoxychlor | 7.56 | 7.51 | 7.61 | 186.3 | 200.0 | -6.8 |
| Endrin ketone | 8.06 | 8.01 | 8.11 | 39.9 | 40.0 | -0.1 |
| Endrin aldehyde | 7.40 | 7.35 | 7.45 | 38.7 | 40.0 | -3.2 |
| gamma-Chlordane | 6.14 | 6.09 | 6.19 | 18.8 | 20.0 | -6.2 |
| alpha-Chlordane | 6.26 | 6.21 | 6.31 | 17.7 | 20.0 | -11.6 |
| Hexachlorobutadiene | 1.73 | 1.68 | 1.78 | 14.8 | 20.0 | -26.2 |
| Hexachlorobenzene | 4.29 | 4.24 | 4.34 | 13.6 | 20.0 | -31.9 |
| Tetrachloro-m-xylene | 3.90 | 3.85 | 3.95 | 26.9 | 40.0 | -32.8 |
| Decachlorobiphenyl | 8.98 | 8.93 | 9.03 | 29.5 | 40.0 | -26.3 |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,1043

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|-------|
| | | FROM | TO | | | |
| alpha-BHC | 4.93 | 4.88 | 4.98 | 19.7 | 20.0 | -1.6 |
| beta-BHC | 5.37 | 5.32 | 5.42 | 18.5 | 20.0 | -7.7 |
| delta-BHC | 5.66 | 5.60 | 5.70 | 19.7 | 20.0 | -1.6 |
| gamma-BHC (Lindane) | 5.28 | 5.23 | 5.33 | 19.5 | 20.0 | -2.7 |
| Heptachlor | 5.72 | 5.66 | 5.76 | 18.0 | 20.0 | -9.8 |
| Aldrin | 6.03 | 5.98 | 6.08 | 18.9 | 20.0 | -5.7 |
| Heptachlor epoxide b | 6.57 | 6.52 | 6.62 | 19.1 | 20.0 | -4.7 |
| Endosulfan I | 6.94 | 6.89 | 6.99 | 18.8 | 20.0 | -5.9 |
| Dieldrin | 7.20 | 7.15 | 7.25 | 38.9 | 40.0 | -2.6 |
| 4,4'-DDE | 7.03 | 6.97 | 7.07 | 37.8 | 40.0 | -5.4 |
| Endrin | 7.49 | 7.44 | 7.54 | 39.3 | 40.0 | -1.8 |
| Endosulfan II | 7.69 | 7.64 | 7.74 | 41.7 | 40.0 | 4.3 |
| 4,4'-DDD | 7.57 | 7.51 | 7.61 | 45.2 | 40.0 | 13.0 |
| Endosulfan sulfate | 8.26 | 8.21 | 8.31 | 39.3 | 40.0 | -1.7 |
| 4,4'-DDT | 7.86 | 7.81 | 7.91 | 24.2 | 40.0 | -39.6 |
| Methoxychlor | 8.49 | 8.44 | 8.54 | 151.6 | 200.0 | -24.2 |
| Endrin ketone | 8.78 | 8.73 | 8.83 | 35.6 | 40.0 | -10.9 |
| Endrin aldehyde | 8.00 | 7.95 | 8.05 | 37.5 | 40.0 | -6.2 |
| gamma-Chlordane | 6.75 | 6.70 | 6.80 | 18.7 | 20.0 | -6.5 |
| alpha-Chlordane | 6.88 | 6.83 | 6.93 | 18.3 | 20.0 | -8.3 |
| Hexachlorobutadiene | 2.04 | 1.99 | 2.09 | 16.3 | 20.0 | -18.7 |
| Hexachlorobenzene | 4.79 | 4.74 | 4.84 | 15.9 | 20.0 | -20.4 |
| Tetrachloro-m-xylene | 4.30 | 4.25 | 4.35 | 32.7 | 40.0 | -18.3 |
| Decachlorobiphenyl | 9.93 | 9.87 | 9.97 | 34.3 | 40.0 | -14.3 |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120525PEST

Analysis Date: 26-MAY-2012 13:14

Init. Calib. Date: 25-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 6.342 | 16399 |
| Endrin | 6.816 | 2205755 |
| 4,4'-DDD | 6.882 | 433570 |
| 4,4'-DDT | 7.129 | 484753 |
| Endrin ketone | 8.060 | 126240 |
| Endrin aldehyde | 7.400 | 26710 |

DDT Percent Breakdown = 48.1 %
 $((16399+433570) * 100) / (16399+433570+484753)$

Endrin Percent Breakdown = 6.5 %
 $((26710+126240) * 100) / (26710+126240+2205755)$

GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 7.028 | 49065 |
| Endrin | 7.493 | 2272594 |
| 4,4'-DDD | 7.571 | 665792 |
| 4,4'-DDT | 7.863 | 371333 |
| Endrin ketone | 8.784 | 133410 |
| Endrin aldehyde | 8.002 | 44980 |

DDT Percent Breakdown = 65.8 %
 $((49065+665792) * 100) / (49065+665792+371333)$

Endrin Percent Breakdown = 7.3 %
 $((44980+133410) * 100) / (44980+133410+2272594)$

Form VII Pest-1

0052:00173

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,1333

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D | |
|----------------------|------|-----------|------|------------------------|-----------------------|-------|----|
| | | FROM | TO | | | | |
| alpha-BHC | 4.45 | 4.40 | 4.50 | 19.3 | 20.0 | -3.6 | |
| beta-BHC | 4.85 | 4.80 | 4.90 | 17.1 | 20.0 | -14.6 | |
| delta-BHC | 5.01 | 4.96 | 5.06 | 17.8 | 20.0 | -11.1 | |
| gamma-BHC (Lindane) | 4.76 | 4.71 | 4.81 | 19.6 | 20.0 | -2.0 | |
| Heptachlor | 5.20 | 5.15 | 5.25 | 19.7 | 20.0 | -1.3 | |
| Aldrin | 5.48 | 5.43 | 5.53 | 19.3 | 20.0 | -3.3 | |
| Heptachlor epoxide b | 6.03 | 5.98 | 6.08 | 19.0 | 20.0 | -4.9 | |
| Endosulfan I | 6.39 | 6.33 | 6.43 | 16.7 | 20.0 | -16.6 | |
| Dieldrin | 6.60 | 6.55 | 6.65 | 40.5 | 40.0 | 1.4 | |
| 4,4'-DDE | 6.34 | 6.29 | 6.39 | 31.6 | 40.0 | -21.0 | <- |
| Endrin | 6.81 | 6.76 | 6.86 | 42.0 | 40.0 | 4.9 | |
| Endosulfan II | 7.02 | 6.97 | 7.07 | 41.3 | 40.0 | 3.1 | |
| 4,4'-DDD | 6.88 | 6.82 | 6.92 | 47.3 | 40.0 | 18.2 | |
| Endosulfan sulfate | 7.80 | 7.75 | 7.85 | 39.5 | 40.0 | -1.3 | |
| 4,4'-DDT | 7.13 | 7.07 | 7.17 | 18.7 | 40.0 | -53.2 | <- |
| Methoxychlor | 7.57 | 7.51 | 7.61 | 134.8 | 200.0 | -32.6 | <- |
| Endrin ketone | 8.06 | 8.01 | 8.11 | 35.1 | 40.0 | -12.3 | |
| Endrin aldehyde | 7.40 | 7.35 | 7.45 | 37.8 | 40.0 | -5.4 | |
| gamma-Chlordane | 6.14 | 6.09 | 6.19 | 19.7 | 20.0 | -1.3 | |
| alpha-Chlordane | 6.26 | 6.21 | 6.31 | 18.5 | 20.0 | -7.3 | |
| Hexachlorobutadiene | 1.73 | 1.68 | 1.78 | 15.4 | 20.0 | -22.8 | <- |
| Hexachlorobenzene | 4.29 | 4.24 | 4.34 | 14.5 | 20.0 | -27.4 | <- |
| Tetrachloro-m-xylene | 3.90 | 3.85 | 3.95 | 27.8 | 40.0 | -30.4 | <- |
| Decachlorobiphenyl | 8.98 | 8.93 | 9.03 | 29.1 | 40.0 | -27.2 | <- |

8081 PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Init. Calib. Date: 05/25/12

Lab Ccal ID: INDAE

Date/Time Analyzed: 05/26/12,1333

| PEST MIX COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ug/L) | NOM AMOUNT (ug/L) | %D |
|----------------------|------|-----------|------|--------------------------|-------------------------|----------|
| | | FROM | TO | | | |
| alpha-BHC | 4.93 | 4.88 | 4.98 | 19.5 | 20.0 | -2.7 |
| beta-BHC | 5.37 | 5.32 | 5.42 | 18.3 | 20.0 | -8.5 |
| delta-BHC | 5.66 | 5.60 | 5.70 | 18.9 | 20.0 | -5.4 |
| gamma-BHC (Lindane) | 5.28 | 5.23 | 5.33 | 18.9 | 20.0 | -5.4 |
| Heptachlor | 5.71 | 5.66 | 5.76 | 16.8 | 20.0 | -16.1 |
| Aldrin | 6.03 | 5.98 | 6.08 | 18.7 | 20.0 | -6.4 |
| Heptachlor epoxide b | 6.57 | 6.52 | 6.62 | 19.1 | 20.0 | -4.4 |
| Endosulfan I | 6.94 | 6.89 | 6.99 | 18.8 | 20.0 | -6.2 |
| Dieldrin | 7.20 | 7.15 | 7.25 | 39.3 | 40.0 | -1.7 |
| 4,4'-DDE | 7.03 | 6.97 | 7.07 | 37.5 | 40.0 | -6.2 |
| Endrin | 7.49 | 7.44 | 7.54 | 38.7 | 40.0 | -3.3 |
| Endosulfan II | 7.69 | 7.64 | 7.74 | 42.6 | 40.0 | 6.5 |
| 4,4'-DDD | 7.57 | 7.51 | 7.61 | 48.1 | 40.0 | 20.2 <- |
| Endosulfan sulfate | 8.26 | 8.21 | 8.31 | 37.4 | 40.0 | -6.4 |
| 4,4'-DDT | 7.86 | 7.81 | 7.91 | 11.4 | 40.0 | -71.4 <- |
| Methoxychlor | 8.49 | 8.44 | 8.54 | 102.9 | 200.0 | -48.6 <- |
| Endrin ketone | 8.78 | 8.73 | 8.83 | 30.7 | 40.0 | -23.2 <- |
| Endrin aldehyde | 8.00 | 7.95 | 8.05 | 36.7 | 40.0 | -8.2 |
| gamma-Chlordane | 6.75 | 6.70 | 6.80 | 18.6 | 20.0 | -6.8 |
| alpha-Chlordane | 6.88 | 6.83 | 6.93 | 18.2 | 20.0 | -9.2 |
| Hexachlorobutadiene | 2.04 | 1.99 | 2.09 | 15.9 | 20.0 | -20.3 <- |
| Hexachlorobenzene | 4.79 | 4.74 | 4.84 | 15.6 | 20.0 | -21.8 <- |
| Tetrachloro-m-xylene | 4.30 | 4.25 | 4.35 | 32.0 | 40.0 | -20.0 |
| Decachlorobiphenyl | 9.93 | 9.87 | 9.97 | 33.3 | 40.0 | -16.6 |

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|-------|-------------|---------|-------------|----------|-------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 4841592 | 2.797 | 6506091 | 8.390 |
| | | | | UPPER LIMIT | 9683184 | 2.847 | 13012182 | 8.440 |
| | | | | LOWER LIMIT | 2420796 | 2.747 | 3253046 | 8.340 |
| | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | DS | 05/23/12 | 1354 | 4833957 | 2.796 | 6341334 | 8.389 | |
| 02 | ZZZZZ | 05/23/12 | 1412 | 4843734 | 2.796 | 6419201 | 8.389 | |
| 03 | INDAE | 05/23/12 | 1429 | 4841592 | 2.797 | 6506091 | 8.390 | |
| 04 | INDAA | 05/23/12 | 1447 | 4662553 | 2.796 | 6288842 | 8.390 | |
| 05 | INDAB | 05/23/12 | 1505 | 4901931 | 2.796 | 6700380 | 8.390 | |
| 06 | INDAC | 05/23/12 | 1523 | 5097624 | 2.796 | 6671309 | 8.390 | |
| 07 | INDAD | 05/23/12 | 1541 | 4846850 | 2.796 | 6537086 | 8.390 | |
| 08 | INDAF | 05/23/12 | 1558 | 4867401 | 2.797 | 6610265 | 8.390 | |
| 09 | INDAG | 05/23/12 | 1616 | 4944488 | 2.797 | 6853296 | 8.390 | |
| 10 | ZZZZZ | 05/23/12 | 1634 | 4744837 | 2.796 | 6458219 | 8.388 | |
| 11 | ZZZZZ | 05/23/12 | 1652 | 4813617 | 2.796 | 6719941 | 8.387 | |
| 12 | TOXAPH 2500 | 05/23/12 | 1710 | 4791619 | 2.796 | 6609775 | 8.391 | |
| 13 | WNDE | 05/23/12 | 1727 | 4835108 | 2.797 | 6638127 | 8.390 | |
| 14 | WNDA | 05/23/12 | 1745 | 4751592 | 2.796 | 6557663 | 8.390 | |
| 15 | WNDB | 05/23/12 | 1803 | 4969001 | 2.796 | 6623328 | 8.390 | |
| 16 | WNDC | 05/23/12 | 1821 | 5151057 | 2.796 | 6848602 | 8.390 | |
| 17 | WNDD | 05/23/12 | 1839 | 5139758 | 2.796 | 6817214 | 8.389 | |
| 18 | WNDF | 05/23/12 | 1856 | 4866835 | 2.796 | 6708266 | 8.390 | |
| 19 | WNDG | 05/23/12 | 1914 | 4729578 | 2.796 | 6555048 | 8.389 | |
| 20 | ZZZZZ | 05/23/12 | 1932 | 4525140 | 2.796 | 6284187 | 8.390 | |
| 21 | ZZZZZ | 05/23/12 | 1950 | 4534400 | 2.796 | 6568755 | 8.387 | |
| 22 | ZZZZZ | 05/23/12 | 2008 | 4602996 | 2.797 | 6326954 | 8.392 | |
| 23 | ZZZZZ | 05/23/12 | 2025 | 4562991 | 2.796 | 6285326 | 8.393 | |
| 24 | DS | 05/25/12 | 0223 | 5067401 | 2.797 | 6720149 | 8.389 | |
| 25 | INDAE | 05/25/12 | 0241 | 4955560 | 2.797 | 6854371 | 8.391 | |
| 26 | TOXAPH 2500 | 05/25/12 | 0259 | 4636797 | 2.796 | 6709612 | 8.391 | |
| 27 | WNDE | 05/25/12 | 0317 | 5180137 | 2.797 | 7007027 | 8.390 | |
| 28 | UU52MBS1 | 05/25/12 | 0334 | 4647725 | 2.794 | 6849218 | 8.387 | |
| 29 | UU52LCSS1 | 05/25/12 | 0352 | 4684042 | 2.794 | 6674886 | 8.387 | |
| 30 | MS001-SS-120 | 05/25/12 | 0410 | 4448672 | 2.796 | 6207764 | 8.387 | |
| 31 | MS101-SS-120 | 05/25/12 | 0428 | 4445233 | 2.796 | 6264658 | 8.388 | |
| 32 | MS002-SS-120 | 05/25/12 | 0446 | 4528822 | 2.796 | 6642351 | 8.389 | |
| 33 | MS002-SS-120 | 05/25/12 | 0503 | 4545279 | 2.796 | 6683385 | 8.390 | |
| 34 | MS002-SS-120 | 05/25/12 | 0521 | 4553875 | 2.797 | 6751377 | 8.390 | |
| 35 | MS003-SS-120 | 05/25/12 | 0539 | 4611525 | 2.796 | 6596017 | 8.388 | |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- .05 min

UU52: 00177

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|---------|-------------|----------|-------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 4841592 | 2.797 | 6506091 | 8.390 |
| | | | | UPPER LIMIT | 9683184 | 2.847 | 13012182 | 8.440 |
| | | | | LOWER LIMIT | 2420796 | 2.747 | 3253046 | 8.340 |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 36 | MS004-SS-120 | UU52E | 05/25/12 | 0557 | 4552402 | 2.796 | 6562955 | 8.387 |
| 37 | MS005-SS-120 | UU52F | 05/25/12 | 0615 | 4643697 | 2.796 | 6659647 | 8.387 |
| 38 | ZZZZZ | ZZZZZ | 05/25/12 | 0632 | 4577913 | 2.796 | 6465101 | 8.391 |
| 39 | ZZZZZ | ZZZZZ | 05/25/12 | 0650 | 4432627 | 2.796 | 6265518 | 8.390 |
| 40 | | DS | 05/25/12 | 0708 | 5021107 | 2.796 | 6732865 | 8.389 |
| 41 | | INDAE | 05/25/12 | 0726 | 5028638 | 2.796 | 7030803 | 8.389 |
| 42 | | TOXAPH 2500 | 05/25/12 | 0744 | 4747596 | 2.796 | 6884033 | 8.390 |
| 43 | | WNDE | 05/25/12 | 0801 | 4983028 | 2.796 | 7160490 | 8.389 |
| 44 | MS006-SS-120 | UU52G | 05/25/12 | 0819 | 4585680 | 2.794 | 6127046 | 8.384 |
| 45 | MS007-SS-120 | UU52H | 05/25/12 | 0837 | 4472999 | 2.796 | 6150437 | 8.387 |
| 46 | MS008-SS-120 | UU52I | 05/25/12 | 0855 | 4586393 | 2.796 | 6672960 | 8.389 |
| 47 | MS009-SS-120 | UU52J | 05/25/12 | 0913 | 4922422 | 2.796 | 6706260 | 8.389 |
| 48 | MS009-SS-120 | UU52J | 05/25/12 | 0931 | 4668866 | 2.796 | 6624396 | 8.387 |
| 49 | ZZZZZ | ZZZZZ | 05/25/12 | 0948 | 5079021 | 2.796 | 6849629 | 8.390 |
| 50 | ZZZZZ | ZZZZZ | 05/25/12 | 1006 | 4743284 | 2.796 | 6754121 | 8.389 |
| 51 | | DS | 05/25/12 | 1024 | 5112143 | 2.796 | 7365911 | 8.389 |
| 52 | | INDAE | 05/25/12 | 1042 | 5494582 | 2.797 | 7700454 | 8.389 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|-------|-------------|----------|-------------|----------|-------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 16226991 | 2.855 | 8472750 | 9.355 |
| | | | | UPPER LIMIT | 32453982 | 2.905 | 16945500 | 9.405 |
| | | | | LOWER LIMIT | 8113496 | 2.805 | 4236375 | 9.305 |
| | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | DS | 05/23/12 | 1354 | 15824122 | 2.854 | 8060309 | 9.355 | |
| 02 | ZZZZZ | 05/23/12 | 1412 | 16148392 | 2.854 | 8335866 | 9.355 | |
| 03 | INDAE | 05/23/12 | 1429 | 16226991 | 2.855 | 8472750 | 9.355 | |
| 04 | INDAA | 05/23/12 | 1447 | 16229726 | 2.855 | 8157989 | 9.355 | |
| 05 | INDAB | 05/23/12 | 1505 | 16989055 | 2.855 | 8678314 | 9.355 | |
| 06 | INDAC | 05/23/12 | 1523 | 15963413 | 2.855 | 8650070 | 9.355 | |
| 07 | INDAD | 05/23/12 | 1541 | 16200736 | 2.855 | 8616973 | 9.355 | |
| 08 | INDAF | 05/23/12 | 1558 | 16682441 | 2.855 | 8629150 | 9.355 | |
| 09 | INDAG | 05/23/12 | 1616 | 15540466 | 2.855 | 8844674 | 9.355 | |
| 10 | ZZZZZ | 05/23/12 | 1634 | 15077669 | 2.854 | 8393228 | 9.354 | |
| 11 | ZZZZZ | 05/23/12 | 1652 | 15147530 | 2.854 | 8680249 | 9.354 | |
| 12 | TOXAPH 2500 | 05/23/12 | 1710 | 16477086 | 2.855 | 8490411 | 9.356 | |
| 13 | WNDE | 05/23/12 | 1727 | 16832865 | 2.855 | 8707514 | 9.355 | |
| 14 | WNDA | 05/23/12 | 1745 | 16405407 | 2.854 | 8503685 | 9.355 | |
| 15 | WNDB | 05/23/12 | 1803 | 16776826 | 2.855 | 8683498 | 9.355 | |
| 16 | WNDC | 05/23/12 | 1821 | 17441474 | 2.855 | 9031272 | 9.355 | |
| 17 | WNDD | 05/23/12 | 1839 | 16765159 | 2.855 | 8985763 | 9.355 | |
| 18 | WNDF | 05/23/12 | 1856 | 17245332 | 2.855 | 8983150 | 9.355 | |
| 19 | WNDG | 05/23/12 | 1914 | 15111899 | 2.855 | 8767543 | 9.355 | |
| 20 | ZZZZZ | 05/23/12 | 1932 | 16193143 | 2.855 | 8526437 | 9.356 | |
| 21 | ZZZZZ | 05/23/12 | 1950 | 15076973 | 2.855 | 8649007 | 9.354 | |
| 22 | ZZZZZ | 05/23/12 | 2008 | 16499244 | 2.855 | 8801559 | 9.357 | |
| 23 | ZZZZZ | 05/23/12 | 2025 | 15945583 | 2.855 | 8717161 | 9.357 | |
| 24 | DS | 05/25/12 | 0223 | 18680732 | 2.855 | 10341957 | 9.353 | |
| 25 | INDAE | 05/25/12 | 0241 | 18405466 | 2.854 | 10501931 | 9.354 | |
| 26 | TOXAPH 2500 | 05/25/12 | 0259 | 16731154 | 2.854 | 9993164 | 9.354 | |
| 27 | WNDE | 05/25/12 | 0317 | 19009774 | 2.855 | 10683549 | 9.354 | |
| 28 | UU52MBS1 | 05/25/12 | 0334 | 15596280 | 2.852 | 9694026 | 9.351 | |
| 29 | UU52LCSS1 | 05/25/12 | 0352 | 15002976 | 2.852 | 9418383 | 9.352 | |
| 30 | MS001-SS-120 | 05/25/12 | 0410 | 15927983 | 2.854 | 9456432 | 9.352 | |
| 31 | MS101-SS-120 | 05/25/12 | 0428 | 16124314 | 2.854 | 9599569 | 9.352 | |
| 32 | MS002-SS-120 | 05/25/12 | 0446 | 17351744 | 2.854 | 10223208 | 9.353 | |
| 33 | MS002-SS-120 | 05/25/12 | 0503 | 16507021 | 2.854 | 10340179 | 9.353 | |
| 34 | MS002-SS-120 | 05/25/12 | 0521 | 17532552 | 2.854 | 10481320 | 9.354 | |
| 35 | MS003-SS-120 | 05/25/12 | 0539 | 16504915 | 2.853 | 10155427 | 9.351 | |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- .05 min

UU52:00179

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53(mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|----------|-------------|----------|-------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 16226991 | 2.855 | 8472750 | 9.355 |
| | | | | UPPER LIMIT | 32453982 | 2.905 | 16945500 | 9.405 |
| | | | | LOWER LIMIT | 8113496 | 2.805 | 4236375 | 9.305 |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 36 | MS004-SS-120 | UU52E | 05/25/12 | 0557 | 16594344 | 2.854 | 10154249 | 9.351 |
| 37 | MS005-SS-120 | UU52F | 05/25/12 | 0615 | 16826089 | 2.853 | 10193857 | 9.352 |
| 38 | ZZZZZ | ZZZZZ | 05/25/12 | 0632 | 18159212 | 2.854 | 10310274 | 9.353 |
| 39 | ZZZZZ | ZZZZZ | 05/25/12 | 0650 | 17581405 | 2.854 | 9901467 | 9.353 |
| 40 | | DS | 05/25/12 | 0708 | 18903117 | 2.854 | 10617170 | 9.353 |
| 41 | | INDAE | 05/25/12 | 0726 | 19069062 | 2.854 | 10992494 | 9.353 |
| 42 | | TOXAPH 2500 | 05/25/12 | 0744 | 17227818 | 2.854 | 10349014 | 9.353 |
| 43 | | WNDE | 05/25/12 | 0801 | 19228977 | 2.854 | 10987644 | 9.352 |
| 44 | MS006-SS-120 | UU52G | 05/25/12 | 0819 | 14867921 | 2.851 | 8841689 | 9.350 |
| 45 | MS007-SS-120 | UU52H | 05/25/12 | 0837 | 15828133 | 2.853 | 9340210 | 9.351 |
| 46 | MS008-SS-120 | UU52I | 05/25/12 | 0855 | 16288145 | 2.854 | 9809409 | 9.352 |
| 47 | MS009-SS-120 | UU52J | 05/25/12 | 0913 | 17116997 | 2.854 | 10340868 | 9.352 |
| 48 | MS009-SS-120 | UU52J | 05/25/12 | 0931 | 16138891 | 2.853 | 9808477 | 9.351 |
| 49 | ZZZZZ | ZZZZZ | 05/25/12 | 0948 | 17828740 | 2.854 | 10261474 | 9.353 |
| 50 | ZZZZZ | ZZZZZ | 05/25/12 | 1006 | 16049918 | 2.854 | 9959865 | 9.352 |
| 51 | | DS | 05/25/12 | 1024 | 18886232 | 2.853 | 10783171 | 9.351 |
| 52 | | INDAE | 05/25/12 | 1042 | 18934934 | 2.854 | 10762965 | 9.352 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53(mm)

Instrument ID: ECD8

Init. Calib. Date: 05/25/12

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

| | | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|-------|-------------|-------------|-------------|-------------|-------|
| ===== | | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | | 836406 | 3.028 | 1091107 | 9.138 |
| UPPER LIMIT | | | | | 1672812 | 3.078 | 2182214 | 9.188 |
| LOWER LIMIT | | | | | 418203 | 2.978 | 545554 | 9.088 |
| ===== | | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | DS | 05/25/12 | 1434 | 901464 | 3.029 | 1202286 | 9.136 | |
| 02 | ZZZZZ | 05/25/12 | 1453 | 847392 | 3.028 | 1085236 | 9.137 | |
| 03 | INDAE | 05/25/12 | 1512 | 836406 | 3.028 | 1091107 | 9.138 | |
| 04 | INDAA | 05/25/12 | 1531 | 890226 | 3.029 | 1219330 | 9.138 | |
| 05 | INDAB | 05/25/12 | 1550 | 893818 | 3.029 | 1236219 | 9.137 | |
| 06 | INDAC | 05/25/12 | 1609 | 874235 | 3.029 | 1210916 | 9.137 | |
| 07 | INDAD | 05/25/12 | 1628 | 860198 | 3.029 | 1188090 | 9.138 | |
| 08 | INDAF | 05/25/12 | 1647 | 893087 | 3.029 | 1211217 | 9.138 | |
| 09 | IDNAG | 05/25/12 | 1706 | 878201 | 3.029 | 1148660 | 9.137 | |
| 10 | ZZZZZ | 05/25/12 | 1725 | 932869 | 3.028 | 1276127 | 9.135 | |
| 11 | ZZZZZ | 05/25/12 | 1743 | 892508 | 3.029 | 1283811 | 9.132 | |
| 12 | TOXAPH 2500 | 05/25/12 | 1802 | 916675 | 3.028 | 1213703 | 9.139 | |
| 13 | WNDE | 05/25/12 | 1821 | 834385 | 3.028 | 1140256 | 9.137 | |
| 14 | WNDA | 05/25/12 | 1840 | 917368 | 3.029 | 1270740 | 9.135 | |
| 15 | WNDB | 05/25/12 | 1859 | 954109 | 3.029 | 1337121 | 9.136 | |
| 16 | WND C | 05/25/12 | 1918 | 1016707 | 3.029 | 1441035 | 9.136 | |
| 17 | WNDD | 05/25/12 | 1937 | 957727 | 3.030 | 1319523 | 9.139 | |
| 18 | WNDF | 05/25/12 | 1956 | 978714 | 3.030 | 1335739 | 9.140 | |
| 19 | WNDG | 05/25/12 | 2014 | 965763 | 3.030 | 1321879 | 9.138 | |
| 20 | ZZZZZ | 05/25/12 | 2033 | 965292 | 3.031 | 1273565 | 9.140 | |
| 21 | ZZZZZ | 05/25/12 | 2052 | 961204 | 3.029 | 1378461 | 9.135 | |
| 22 | ZZZZZ | 05/25/12 | 2111 | 970671 | 3.030 | 1346689 | 9.142 | |
| 23 | ZZZZZ | 05/25/12 | 2130 | 1032950 | 3.029 | 1375257 | 9.139 | |
| 24 | DS | 05/26/12 | 0541 | 1571633 | 3.029 | 1886951 | 9.137 | |
| 25 | INDAE | 05/26/12 | 0600 | 1236508 | 3.030 | 1519532 | 9.139 | |
| 26 | UU52MBS1 | 05/26/12 | 0619 | 1244861 | 3.032 | 1681868 | 9.133 | |
| 27 | UU52LCSS1 | 05/26/12 | 0638 | 1615040 | 3.033 | 2179045 | 9.133 | |
| 28 | MS001-SS-120 | 05/26/12 | 0656 | 1465559 | 3.031 | 1634931 | 9.132 | |
| 29 | MS101-SS-120 | 05/26/12 | 0715 | 1509170 | 3.030 | 1715727 | 9.130 | |
| 30 | MS002-SS-120 | 05/26/12 | 0734 | 1537602 | 3.030 | 1774891 | 9.130 | |
| 31 | MS002-SS-120 | 05/26/12 | 0753 | 1542820 | 3.031 | 1764083 | 9.133 | |
| 32 | MS002-SS-120 | 05/26/12 | 0812 | 1496969 | 3.032 | 1748676 | 9.134 | |
| 33 | MS003-SS-120 | 05/26/12 | 0831 | 1588078 | 3.031 | 1812949 | 9.131 | |
| 34 | MS004-SS-120 | 05/26/12 | 0850 | 1590197 | 3.032 | 1789929 | 9.133 | |
| 35 | MS005-SS-120 | 05/26/12 | 0909 | 1570030 | 3.031 | 1880039 | 9.133 | |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- .05 min

UU52: 00181

* Indicates value outside QC Limits

FORM VIII PEST

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53(mm)

Instrument ID: ECD8

Init. Calib. Date: 05/25/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|-------|-------------|-------|-------------|-------|
| ===== | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | 836406 | 3.028 | 1091107 | 9.138 |
| UPPER LIMIT | | | | 1672812 | 3.078 | 2182214 | 9.188 |
| LOWER LIMIT | | | | 418203 | 2.978 | 545554 | 9.088 |
| ===== | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 36 | ZZZZZ | 05/26/12 | 0927 | | | 11684* | 9.145 |
| 37 | ZZZZZ | 05/26/12 | 0946 | 1380566 | 3.030 | 1726411 | 9.137 |
| 38 | ZZZZZ | 05/26/12 | 1005 | 1524912 | 3.030 | 1921328 | 9.136 |
| 39 | DS | 05/26/12 | 1024 | 1590828 | 3.031 | 2030288 | 9.139 |
| 40 | INDAE | 05/26/12 | 1043 | 1381366 | 3.030 | 1717350 | 9.140 |
| 41 | MS006-SS-120 | 05/26/12 | 1102 | 1403389 | 3.031 | 1599002 | 9.134 |
| 42 | MS007-SS-120 | 05/26/12 | 1121 | 1485976 | 3.032 | 1657319 | 9.132 |
| 43 | MS008-SS-120 | 05/26/12 | 1140 | 1468582 | 3.031 | 1761217 | 9.133 |
| 44 | MS009-SS-120 | 05/26/12 | 1159 | 1504730 | 3.031 | 1763076 | 9.133 |
| 45 | ZZZZZ | 05/26/12 | 1218 | | | 13382* | 9.142 |
| 46 | ZZZZZ | 05/26/12 | 1236 | 1377891 | 3.030 | 1681139 | 9.136 |
| 47 | ZZZZZ | 05/26/12 | 1255 | 1522591 | 3.030 | 1953798 | 9.136 |
| 48 | DS | 05/26/12 | 1314 | 1592001 | 3.031 | 2036474 | 9.138 |
| 49 | INDAE | 05/26/12 | 1333 | 1321741 | 3.031 | 1733918 | 9.140 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD8

Init. Calib. Date: 05/25/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|---------|-------------|---------|--------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 1248621 | 3.295 | 1339634 | 10.431 |
| | | | | UPPER LIMIT | 2497242 | 3.345 | 2679268 | 10.481 |
| | | | | LOWER LIMIT | 624310 | 3.245 | 669817 | 10.381 |
| ===== | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | DS | 05/25/12 | 1434 | 1296044 | 3.295 | 1419721 | 10.432 | |
| 02 | ZZZZZ | 05/25/12 | 1453 | 1216529 | 3.294 | 1332632 | 10.432 | |
| 03 | INDAE | 05/25/12 | 1512 | 1248621 | 3.295 | 1339634 | 10.431 | |
| 04 | INDAA | 05/25/12 | 1531 | 1353989 | 3.295 | 1476221 | 10.432 | |
| 05 | INDAB | 05/25/12 | 1550 | 1375217 | 3.295 | 1509551 | 10.433 | |
| 06 | INDAC | 05/25/12 | 1609 | 1357862 | 3.295 | 1497654 | 10.433 | |
| 07 | INDAD | 05/25/12 | 1628 | 1348234 | 3.295 | 1464302 | 10.433 | |
| 08 | INDAF | 05/25/12 | 1647 | 1357917 | 3.296 | 1544067 | 10.433 | |
| 09 | IDNAG | 05/25/12 | 1706 | 1350929 | 3.296 | 1529548 | 10.432 | |
| 10 | ZZZZZ | 05/25/12 | 1725 | 1487234 | 3.295 | 1625382 | 10.431 | |
| 11 | ZZZZZ | 05/25/12 | 1743 | 1427760 | 3.295 | 1626638 | 10.429 | |
| 12 | TOXAPH 2500 | 05/25/12 | 1802 | 1457356 | 3.294 | 1606848 | 10.432 | |
| 13 | WNDE | 05/25/12 | 1821 | 1356458 | 3.295 | 1506571 | 10.431 | |
| 14 | WNDA | 05/25/12 | 1840 | 1508923 | 3.296 | 1657404 | 10.430 | |
| 15 | WNDB | 05/25/12 | 1859 | 1572890 | 3.295 | 1737844 | 10.431 | |
| 16 | WNDC | 05/25/12 | 1918 | 1666113 | 3.295 | 1817495 | 10.431 | |
| 17 | WNDD | 05/25/12 | 1937 | 1586601 | 3.297 | 1734283 | 10.433 | |
| 18 | WNDF | 05/25/12 | 1956 | 1573708 | 3.297 | 1779668 | 10.435 | |
| 19 | WNDG | 05/25/12 | 2014 | 1560131 | 3.296 | 1740403 | 10.433 | |
| 20 | ZZZZZ | 05/25/12 | 2033 | 1605656 | 3.297 | 1716700 | 10.434 | |
| 21 | ZZZZZ | 05/25/12 | 2052 | 1621863 | 3.296 | 1793995 | 10.432 | |
| 22 | ZZZZZ | 05/25/12 | 2111 | 1648261 | 3.296 | 1796277 | 10.436 | |
| 23 | ZZZZZ | 05/25/12 | 2130 | 1750849 | 3.296 | 1860213 | 10.434 | |
| 24 | DS | 05/26/12 | 0541 | 2005466 | 3.295 | 2046165 | 10.434 | |
| 25 | INDAE | 05/26/12 | 0600 | 1702782 | 3.296 | 1824435 | 10.436 | |
| 26 | UU52MBS1 | UU52MBS1 | 05/26/12 | 0619 | 1645708 | 3.298 | 1788951 | 10.432 |
| 27 | UU52LCSS1 | UU52LCSS1 | 05/26/12 | 0638 | 2077989 | 3.298 | 2282423 | 10.432 |
| 28 | MS001-SS-120 | UU52A | 05/26/12 | 0656 | 1800758 | 3.297 | 2039779 | 10.431 |
| 29 | MS101-SS-120 | UU52B | 05/26/12 | 0715 | 1864073 | 3.296 | 2110184 | 10.429 |
| 30 | MS002-SS-120 | UU52C | 05/26/12 | 0734 | 1918734 | 3.296 | 2154033 | 10.429 |
| 31 | MS002-SS-120 | UU52CMS | 05/26/12 | 0753 | 1933553 | 3.297 | 2152932 | 10.433 |
| 32 | MS002-SS-120 | UU52CMSD | 05/26/12 | 0812 | 1900593 | 3.299 | 2129930 | 10.432 |
| 33 | MS003-SS-120 | UU52D | 05/26/12 | 0831 | 2015578 | 3.297 | 2225921 | 10.431 |
| 34 | MS004-SS-120 | UU52E | 05/26/12 | 0850 | 1990201 | 3.298 | 2219745 | 10.432 |
| 35 | MS005-SS-120 | UU52F | 05/26/12 | 0909 | 1986131 | 3.297 | 2196333 | 10.434 |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- .05 min

UU52: 00184

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD8

Init. Calib. Date: 05/25/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|-------|-------------|-------|-------------|--------|
| ===== | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | 1248621 | 3.295 | 1339634 | 10.431 |
| UPPER LIMIT | | | | 2497242 | 3.345 | 2679268 | 10.481 |
| LOWER LIMIT | | | | 624310 | 3.245 | 669817 | 10.381 |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 36 | ZZZZZ | 05/26/12 | 0927 | | | 9637* | 10.439 |
| 37 | ZZZZZ | 05/26/12 | 0946 | 1731609 | 3.296 | 1872053 | 10.432 |
| 38 | ZZZZZ | 05/26/12 | 1005 | 1892309 | 3.296 | 2032283 | 10.432 |
| 39 | DS | 05/26/12 | 1024 | 1967623 | 3.296 | 2159064 | 10.435 |
| 40 | ZZZZZ | 05/26/12 | 1043 | 1734872 | 3.297 | 1860256 | 10.435 |
| 41 | MS006-SS-120 | 05/26/12 | 1102 | 1921460 | 3.297 | 2044331 | 10.433 |
| 42 | MS007-SS-120 | 05/26/12 | 1121 | 1948265 | 3.298 | 2023771 | 10.432 |
| 43 | MS008-SS-120 | 05/26/12 | 1140 | 1925279 | 3.298 | 2061329 | 10.432 |
| 44 | MS009-SS-120 | 05/26/12 | 1159 | 1970396 | 3.297 | 2169151 | 10.432 |
| 45 | ZZZZZ | 05/26/12 | 1218 | | | 10470* | 10.439 |
| 46 | ZZZZZ | 05/26/12 | 1236 | 1704274 | 3.297 | 1837874 | 10.433 |
| 47 | ZZZZZ | 05/26/12 | 1255 | 1950819 | 3.297 | 2083775 | 10.432 |
| 48 | DS | 05/26/12 | 1314 | 2024513 | 3.297 | 2059232 | 10.435 |
| 49 | INDAE | 05/26/12 | 1333 | 1755648 | 3.297 | 1916442 | 10.436 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP1 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|-------|-------------|-------|-------------|-------|
| ===== | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | 4841592 | 2.797 | 6506091 | 8.390 |
| UPPER LIMIT | | | | 9683184 | 2.847 | 13012182 | 8.440 |
| LOWER LIMIT | | | | 2420796 | 2.747 | 3253046 | 8.340 |
| ===== | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | DS | 05/23/12 | 1354 | 4833957 | 2.796 | 6341334 | 8.389 |
| 02 | ZZZZZ | 05/23/12 | 1412 | 4843734 | 2.796 | 6419201 | 8.389 |
| 03 | INDAE | 05/23/12 | 1429 | 4841592 | 2.797 | 6506091 | 8.390 |
| 04 | INDAA | 05/23/12 | 1447 | 4662553 | 2.796 | 6288842 | 8.390 |
| 05 | INDAB | 05/23/12 | 1505 | 4901931 | 2.796 | 6700380 | 8.390 |
| 06 | INDAC | 05/23/12 | 1523 | 5097624 | 2.796 | 6671309 | 8.390 |
| 07 | INDAD | 05/23/12 | 1541 | 4846850 | 2.796 | 6537086 | 8.390 |
| 08 | INDAF | 05/23/12 | 1558 | 4867401 | 2.797 | 6610265 | 8.390 |
| 09 | INDAG | 05/23/12 | 1616 | 4944488 | 2.797 | 6853296 | 8.390 |
| 10 | ZZZZZ | 05/23/12 | 1634 | 4744837 | 2.796 | 6458219 | 8.388 |
| 11 | ZZZZZ | 05/23/12 | 1652 | 4813617 | 2.796 | 6719941 | 8.387 |
| 12 | TOXAPH 2500 | 05/23/12 | 1710 | 4791619 | 2.796 | 6609775 | 8.391 |
| 13 | WNDE | 05/23/12 | 1727 | 4835108 | 2.797 | 6638127 | 8.390 |
| 14 | WNDA | 05/23/12 | 1745 | 4751592 | 2.796 | 6557663 | 8.390 |
| 15 | WNDB | 05/23/12 | 1803 | 4969001 | 2.796 | 6623328 | 8.390 |
| 16 | WNDC | 05/23/12 | 1821 | 5151057 | 2.796 | 6848602 | 8.390 |
| 17 | WNDD | 05/23/12 | 1839 | 5139758 | 2.796 | 6817214 | 8.389 |
| 18 | WNDF | 05/23/12 | 1856 | 4866835 | 2.796 | 6708266 | 8.390 |
| 19 | WNDG | 05/23/12 | 1914 | 4729578 | 2.796 | 6555048 | 8.389 |
| 20 | ZZZZZ | 05/23/12 | 1932 | 4525140 | 2.796 | 6284187 | 8.390 |
| 21 | ZZZZZ | 05/23/12 | 1950 | 4534400 | 2.796 | 6568755 | 8.387 |
| 22 | ZZZZZ | 05/23/12 | 2008 | 4602996 | 2.797 | 6326954 | 8.392 |
| 23 | ZZZZZ | 05/23/12 | 2025 | 4562991 | 2.796 | 6285326 | 8.393 |
| 24 | DS | 05/24/12 | 1413 | 5001681 | 2.796 | 6754331 | 8.388 |
| 25 | INDAE | 05/24/12 | 1431 | 5138026 | 2.796 | 6987948 | 8.389 |
| 26 | UU37MBW1 | 05/24/12 | 1524 | 5071443 | 2.794 | 7166255 | 8.386 |
| 27 | UU37LCSW1 | 05/24/12 | 1542 | 5352442 | 2.794 | 7455456 | 8.386 |
| 28 | UU37LCSW1 | 05/24/12 | 1600 | 5188717 | 2.794 | 7272835 | 8.387 |
| 29 | MS-SSRB-1205 | 05/24/12 | 1823 | 5273774 | 2.794 | 7217767 | 8.387 |
| 30 | MS-SSFBS-1205 | 05/24/12 | 1840 | 5100774 | 2.794 | 7241256 | 8.387 |
| 31 | DS | 05/24/12 | 1934 | 4908784 | 2.796 | 6876904 | 8.389 |
| 32 | INDAE | 05/24/12 | 1952 | 5328098 | 2.797 | 7126502 | 8.390 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PESTICIDE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: STX-CLP2 ID: 0.53 (mm)

Instrument ID: ECD6

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|-------|-------------|----------|-------------|----------|-------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| | | | | ICAL MIDPT | 16226991 | 2.855 | 8472750 | 9.355 |
| | | | | UPPER LIMIT | 32453982 | 2.905 | 16945500 | 9.405 |
| | | | | LOWER LIMIT | 8113496 | 2.805 | 4236375 | 9.305 |
| | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | DS | 05/23/12 | 1354 | 15824122 | 2.854 | 8060309 | 9.355 | |
| 02 | ZZZZZ | 05/23/12 | 1412 | 16148392 | 2.854 | 8335866 | 9.355 | |
| 03 | INDAE | 05/23/12 | 1429 | 16226991 | 2.855 | 8472750 | 9.355 | |
| 04 | INDAA | 05/23/12 | 1447 | 16229726 | 2.855 | 8157989 | 9.355 | |
| 05 | INDAB | 05/23/12 | 1505 | 16989055 | 2.855 | 8678314 | 9.355 | |
| 06 | INDAC | 05/23/12 | 1523 | 15963413 | 2.855 | 8650070 | 9.355 | |
| 07 | INDAD | 05/23/12 | 1541 | 16200736 | 2.855 | 8616973 | 9.355 | |
| 08 | INDAF | 05/23/12 | 1558 | 16682441 | 2.855 | 8629150 | 9.355 | |
| 09 | INDAG | 05/23/12 | 1616 | 15540466 | 2.855 | 8844674 | 9.355 | |
| 10 | ZZZZZ | 05/23/12 | 1634 | 15077669 | 2.854 | 8393228 | 9.354 | |
| 11 | ZZZZZ | 05/23/12 | 1652 | 15147530 | 2.854 | 8680249 | 9.354 | |
| 12 | TOXAPH 2500 | 05/23/12 | 1710 | 16477086 | 2.855 | 8490411 | 9.356 | |
| 13 | WNDE | 05/23/12 | 1727 | 16832865 | 2.855 | 8707514 | 9.355 | |
| 14 | WNDA | 05/23/12 | 1745 | 16405407 | 2.854 | 8503685 | 9.355 | |
| 15 | WNDB | 05/23/12 | 1803 | 16776826 | 2.855 | 8683498 | 9.355 | |
| 16 | WNDC | 05/23/12 | 1821 | 17441474 | 2.855 | 9031272 | 9.355 | |
| 17 | WNDD | 05/23/12 | 1839 | 16765159 | 2.855 | 8985763 | 9.355 | |
| 18 | WNDF | 05/23/12 | 1856 | 17245332 | 2.855 | 8983150 | 9.355 | |
| 19 | WNDG | 05/23/12 | 1914 | 15111899 | 2.855 | 8767543 | 9.355 | |
| 20 | ZZZZZ | 05/23/12 | 1932 | 16193143 | 2.855 | 8526437 | 9.356 | |
| 21 | ZZZZZ | 05/23/12 | 1950 | 15076973 | 2.855 | 8649007 | 9.354 | |
| 22 | ZZZZZ | 05/23/12 | 2008 | 16499244 | 2.855 | 8801559 | 9.357 | |
| 23 | ZZZZZ | 05/23/12 | 2025 | 15945583 | 2.855 | 8717161 | 9.357 | |
| 24 | DS | 05/24/12 | 1413 | 17666780 | 2.854 | 9318641 | 9.353 | |
| 25 | INDAE | 05/24/12 | 1431 | 17460248 | 2.854 | 9570322 | 9.353 | |
| 26 | UU37MBW1 | 05/24/12 | 1524 | 15720442 | 2.853 | 9530794 | 9.352 | |
| 27 | UU37LCSW1 | 05/24/12 | 1542 | 16498690 | 2.852 | 9917993 | 9.351 | |
| 28 | UU37LCSW1 | 05/24/12 | 1600 | 16262258 | 2.852 | 9792052 | 9.352 | |
| 29 | MS-SSRB-1205 | 05/24/12 | 1823 | 15899944 | 2.852 | 9649398 | 9.351 | |
| 30 | MS-SSFB-1205 | 05/24/12 | 1840 | 16009521 | 2.852 | 9745131 | 9.352 | |
| 31 | DS | 05/24/12 | 1934 | 18068667 | 2.854 | 9866692 | 9.353 | |
| 32 | INDAE | 05/24/12 | 1952 | 18001293 | 2.854 | 10197850 | 9.353 | |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .05 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

UU52:00187

**PCB Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS001-SS-120515
SAMPLE

Lab Sample ID: UU52A
 LIMS ID: 12-8893
 Matrix: Sediment
 Data Release Authorized: *A*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 22:50
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.3%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 4.0 | 22 |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 44 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 20 | < 20 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 98.2% |
| Tetrachlorometaxylene | 84.0% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS101-SS-120515
SAMPLE

Lab Sample ID: UU52B
 LIMS ID: 12-8894
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 23:09
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.7 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.3 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.3 | 4.0 | 17 |
| 11097-69-1 | Aroclor 1254 | 1.3 | 4.0 | 37 |
| 11096-82-5 | Aroclor 1260 | 1.3 | 16 | < 16 Y |
| 11104-28-2 | Aroclor 1221 | 1.3 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.3 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.3 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.3 | 4.0 | < 4.0 U |


Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 91.5% |
| Tetrachlorometaxylene | 77.2% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS002-SS-120515
SAMPLE

Lab Sample ID: UU52C
 LIMS ID: 12-8895
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 23:28
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 89.8%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-------------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 4.0 | 17 P |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 39 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 20 | < 20 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 103% |
| Tetrachlorometaxylene | 85.2% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS003-SS-120515
SAMPLE

Lab Sample ID: UU52D
 LIMS ID: 12-8896
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 23:47
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.7%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 20 | < 20 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 28 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 14 | < 14 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 97.2% |
| Tetrachlorometaxylene | 81.5% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS004-SS-120515
SAMPLE

Lab Sample ID: UU52E
 LIMS ID: 12-8897
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 00:06
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.4%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-------------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 16 | < 16 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 28 P |
| 11096-82-5 | Aroclor 1260 | 1.4 | 20 | < 20 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 89.0% |
| Tetrachlorometaxylene | 80.5% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS005-SS-120515
SAMPLE

Lab Sample ID: UU52F
 LIMS ID: 12-8898
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 00:25
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 91.1%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.3 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.3 | 4.0 | 12 |
| 11097-69-1 | Aroclor 1254 | 1.3 | 4.0 | 25 |
| 11096-82-5 | Aroclor 1260 | 1.3 | 12 | < 12 Y |
| 11104-28-2 | Aroclor 1221 | 1.3 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.3 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.3 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.3 | 4.0 | < 4.0 U |


Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 87.0% |
| Tetrachlorometaxylene | 67.0% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS006-SS-120515
SAMPLE

Lab Sample ID: UU52G
 LIMS ID: 12-8899
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 00:44
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.8%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 4.0 | 16 |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 27 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 20 | < 20 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 92.8% |
| Tetrachlorometaxylene | 77.5% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS007-SS-120515
SAMPLE

Lab Sample ID: UU52H
 LIMS ID: 12-8900
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 01:41
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 83.9%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.3 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.3 | 4.0 | 15 |
| 11097-69-1 | Aroclor 1254 | 1.3 | 4.0 | 31 |
| 11096-82-5 | Aroclor 1260 | 1.3 | 14 | < 14 Y |
| 11104-28-2 | Aroclor 1221 | 1.3 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.3 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.3 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.3 | 4.0 | < 4.0 U |


Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 81.5% |
| Tetrachlorometaxylene | 69.2% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS008-SS-120515
SAMPLE

Lab Sample ID: UU52I
 LIMS ID: 12-8901
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 02:00
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 89.0%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 9.9 | < 9.9 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 23 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 9.9 | < 9.9 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 97.8% |
| Tetrachlorometaxylene | 65.2% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
SAMPLE

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 02:19
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 10 | < 10 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 20 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 10 | < 10 Y |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 92.0% |
| Tetrachlorometaxylene | 69.5% |

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>DCBP % REC</u> | <u>DCBP LCL-UCL</u> | <u>TCMX % REC</u> | <u>TCMX LCL-UCL</u> | <u>TOT OUT</u> |
|---------------------|-----------------------|-------------------------|-----------------------|-------------------------|----------------|
| MS001-SS-120515 | 98.2% | 24-127 | 84.0% | 34-109 | 0 |
| MS101-SS-120515 | 91.5% | 24-127 | 77.2% | 34-109 | 0 |
| MS002-SS-120515 | 103% | 24-127 | 85.2% | 34-109 | 0 |
| MS003-SS-120515 | 97.2% | 24-127 | 81.5% | 34-109 | 0 |
| MS004-SS-120515 | 89.0% | 24-127 | 80.5% | 34-109 | 0 |
| MS005-SS-120515 | 87.0% | 24-127 | 67.0% | 34-109 | 0 |
| MS006-SS-120515 | 92.8% | 24-127 | 77.5% | 34-109 | 0 |
| MS007-SS-120515 | 81.5% | 24-127 | 69.2% | 34-109 | 0 |
| MS008-SS-120515 | 97.8% | 24-127 | 65.2% | 34-109 | 0 |
| MB-052212 | 95.8% | 48-123 | 72.8% | 43-107 | 0 |
| LCS-052212 | 93.2% | 48-123 | 70.5% | 43-107 | 0 |
| MS009-SS-120515 | 92.0% | 24-127 | 69.5% | 34-109 | 0 |
| MS009-SS-120515 MS | 88.5% | 24-127 | 70.5% | 34-109 | 0 |
| MS009-SS-120515 MSD | 88.5% | 24-127 | 71.8% | 34-109 | 0 |

Microwave (MARS) Control Limits PCBsMM
Prep Method: SW3546
Log Number Range: 12-8893 to 12-8902

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1


Sample ID: MS009-SS-120515

MS/MSD

Lab Sample ID: UU52J

LIMS ID: 12-8902

Matrix: Sediment

Data Release Authorized: 

Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted MS/MSD: 05/22/12

Sample Amount MS: 12.6 g-dry-wt

MSD: 12.5 g-dry-wt

Date Analyzed MS: 05/26/12 02:38

Final Extract Volume MS: 2.5 mL

MSD: 05/26/12 02:57

MSD: 2.5 mL

Instrument/Analyst MS: ECD5/JGR

Dilution Factor MS: 1.00

MSD: ECD5/JGR

MSD: 1.00

GPC Cleanup: No

Silica Gel: Yes

Sulfur Cleanup: Yes

Percent Moisture: 90.2%

Acid Cleanup: Yes

Florisil Cleanup: No

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------------|----------|------|----------------|-------------|------|-----------------|--------------|------|
| Aroclor 1016 | < 4.0 U | 51.1 | 100 | 51.1% | 53.6 | 101 | 53.1% | 4.8% |
| Aroclor 1260 | < 10.0 Y | 64.5 | 100 | 64.5% | 69.4 | 101 | 68.7% | 7.3% |

Results reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
MATRIX SPIKE

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 02:38
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.6 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | --- |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 24 | < 24 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 39 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 4.0 | --- |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |


Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 88.5% |
| Tetrachlorometaxylene | 70.5% |

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MS009-SS-120515
MATRIX SPIKE DUP

Lab Sample ID: UU52J
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 05/22/12
 Date Analyzed: 05/26/12 02:57
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: 90.2%

| CAS Number | Analyte | MDL | RL | Result |
|-------------------|---------------------|------------|------------|-----------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | --- |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 25 | < 25 Y |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | 40 |
| 11096-82-5 | Aroclor 1260 | 1.4 | 4.0 | --- |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 88.5% |
| Tetrachlorometaxylene | 71.8% |

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

Page 1 of 1

Sample ID: LCS-052212

LAB CONTROL

Lab Sample ID: LCS-052212

LIMS ID: 12-8902

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 05/22/12

Date Analyzed: 05/25/12 22:31

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.5 g-dry-wt

Final Extract Volume: 2.50 mL

Dilution Factor: 1.00

Silica Gel: Yes

Percent Moisture: NA

| Analyte | Lab Control | Spike Added | Recovery |
|--------------|-------------|-------------|----------|
| Aroclor 1016 | 77.7 | 101 | 76.9% |
| Aroclor 1260 | 90.8 | 101 | 89.9% |

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 93.2% |
| Tetrachlorometaxylene | 70.5% |

Results reported in µg/kg (ppb)

4
PCB METHOD BLANK SUMMARY

BLANK NO.

UU52MBS1

Lab Name: ANALYTICAL RESOURCES INC
 ARI Job No.: UU52
 Lab Sample ID: UU52MBS1
 Date Extracted: 05/22/12
 Date Analyzed: 05/25/12
 Time Analyzed: 2212

Client: ANCHOR QEA, LLC.
 Project: JELD WEN MAULSBY MAR
 Lab File ID: 0525A045
 Matrix: SOLID
 Instrument ID: ECD5
 GC Columns: ZB5/ZB35

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UU52LCSS1 | UU52LCSS1 | 05/25/12 |
| 02 | MS001-SS-120515 | UU52A | 05/25/12 |
| 03 | MS101-SS-120515 | UU52B | 05/25/12 |
| 04 | MS002-SS-120515 | UU52C | 05/25/12 |
| 05 | MS003-SS-120515 | UU52D | 05/25/12 |
| 06 | MS004-SS-120515 | UU52E | 05/26/12 |
| 07 | MS005-SS-120515 | UU52F | 05/26/12 |
| 08 | MS006-SS-120515 | UU52G | 05/26/12 |
| 09 | MS007-SS-120515 | UU52H | 05/26/12 |
| 10 | MS008-SS-120515 | UU52I | 05/26/12 |
| 11 | MS009-SS-120515 | UU52J | 05/26/12 |
| 12 | MS009-SS-120515 MS | UU52JMS | 05/26/12 |
| 13 | MS009-SS-120515 MSD | UU52JMSD | 05/26/12 |

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Extraction Method: SW3546
 Page 1 of 1

Sample ID: MB-052212
METHOD BLANK

Lab Sample ID: MB-052212
 LIMS ID: 12-8902
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 05/29/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/22/12
 Date Analyzed: 05/25/12 22:12
 Instrument/Analyst: ECD5/JGR
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes

Sample Amount: 12.5 g
 Final Extract Volume: 2.5 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Percent Moisture: NA

| CAS Number | Analyte | MDL | RL | Result |
|------------|--------------|-----|-----|---------|
| 12674-11-2 | Aroclor 1016 | 1.0 | 4.0 | < 4.0 U |
| 53469-21-9 | Aroclor 1242 | 1.4 | 4.0 | < 4.0 U |
| 12672-29-6 | Aroclor 1248 | 1.4 | 4.0 | < 4.0 U |
| 11097-69-1 | Aroclor 1254 | 1.4 | 4.0 | < 4.0 U |
| 11096-82-5 | Aroclor 1260 | 1.4 | 4.0 | < 4.0 U |
| 11104-28-2 | Aroclor 1221 | 1.4 | 4.0 | < 4.0 U |
| 11141-16-5 | Aroclor 1232 | 1.4 | 4.0 | < 4.0 U |
| 37324-23-5 | Aroclor 1262 | 1.4 | 4.0 | < 4.0 U |
| 11100-14-4 | Aroclor 1268 | 1.4 | 4.0 | < 4.0 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 95.8% |
| Tetrachlorometaxylene | 72.8% |

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: MS-SSRB-120515

SAMPLE

Lab Sample ID: UU62J
LIMS ID: 12-8937
Matrix: Water
Data Release Authorized: *MW*
Reported: 05/24/12

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Date Extracted: 05/21/12
Date Analyzed: 05/23/12 23:27
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|--------------|------|-----|---------|
| 12674-11-2 | Aroclor 1016 | 0.13 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 0.15 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 0.15 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 0.15 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 0.15 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 0.15 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 0.15 | 1.0 | < 1.0 U |
| 37324-23-5 | Aroclor 1262 | 0.15 | 1.0 | < 1.0 U |
| 11100-14-4 | Aroclor 1268 | 0.15 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 22.5% |
| Tetrachlorometaxylene | 63.8% |

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: MS-SSFB-120515

SAMPLE

Lab Sample ID: UU62K

LIMS ID: 12-8938

Matrix: Water

Data Release Authorized: *MMW*

Reported: 05/24/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted: 05/21/12

Date Analyzed: 05/23/12 23:46

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 500 mL

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Acid Cleanup: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|--------------|------|-----|---------|
| 12674-11-2 | Aroclor 1016 | 0.13 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 0.15 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 0.15 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 0.15 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 0.15 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 0.15 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 0.15 | 1.0 | < 1.0 U |
| 37324-23-5 | Aroclor 1262 | 0.15 | 1.0 | < 1.0 U |
| 11100-14-4 | Aroclor 1268 | 0.15 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 78.0% |
| Tetrachlorometaxylene | 90.0% |

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>DCBP % REC</u> | <u>DCBP LCL-UCL</u> | <u>TCMX % REC</u> | <u>TCMX LCL-UCL</u> | <u>TOT</u> | <u>OUT</u> |
|------------------|-----------------------|-------------------------|-----------------------|-------------------------|------------|------------|
| MB-052112 | 83.8% | 41-111 | 78.0% | 40-118 | | 0 |
| LCS-052112 | 85.0% | 41-111 | 88.0% | 40-118 | | 0 |
| LCSD-052112 | 81.0% | 41-111 | 84.8% | 40-118 | | 0 |
| MS-SSRB-120515 | 22.5%* | 29-118 | 63.8% | 38-118 | | 1 |
| MS-SSFB-120515 | 78.0% | 29-118 | 90.0% | 38-118 | | 0 |

Prep Method: SW3510C
Log Number Range: 12-8937 to 12-8938

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: LCS-052112

LCS/LCSD

Lab Sample ID: LCS-052112

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: *gww*

Reported: 05/24/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 05/21/12

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/23/12 22:30

Final Extract Volume LCS: 5.0 mL

LCSD: 05/23/12 22:49

LCSD: 5.0 mL

Instrument/Analyst LCS: ECD5/YZ

Dilution Factor LCS: 1.00

LCSD: ECD5/YZ

LCSD: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

| Analyte | LCS | | | LCSD | | | RPD |
|--------------|------|-----------------|--------------|------|------------------|---------------|------|
| | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | |
| Aroclor 1016 | 4.60 | 5.00 | 92.0% | 4.46 | 5.00 | 89.2% | 3.1% |
| Aroclor 1260 | 4.08 | 5.00 | 81.6% | 4.05 | 5.00 | 81.0% | 0.7% |

PCB Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|-------|
| Decachlorobiphenyl | 85.0% | 81.0% |
| Tetrachlorometaxylene | 88.0% | 84.8% |

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

4
PCB METHOD BLANK SUMMARY

BLANK NO.

UU62MBW1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU62

Project: JELD WEN - MAULSBY M

Lab Sample ID: UU62MBW1

Lab File ID: 0523A038

Date Extracted: 05/21/12

Matrix: LIQUID

Date Analyzed: 05/23/12

Instrument ID: ECD5

Time Analyzed: 2211

GC Columns: ZB5/ZB35

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| 01 | UU62LCSW1 | UU62LCSW1 | 05/23/12 |
| 02 | UU62LCSDW1 | UU62LCSDW1 | 05/23/12 |
| 03 | MS-SSRB-120515 | UU62J | 05/23/12 |
| 04 | MS-SSFB-120515 | UU62K | 05/23/12 |

ALL RUNS ARE DUAL COLUMN

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: MB-052112

METHOD BLANK

Lab Sample ID: MB-052112

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: *mm*

Reported: 05/24/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

Date Extracted: 05/21/12

Date Analyzed: 05/23/12 22:11

Instrument/Analyst: ECD5/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 500 mL

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: No

Acid Cleanup: Yes

| CAS Number | Analyte | MDL | RL | Result |
|------------|--------------|------|-----|---------|
| 12674-11-2 | Aroclor 1016 | 0.13 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 0.15 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 0.15 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 0.15 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 0.15 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 0.15 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 0.15 | 1.0 | < 1.0 U |
| 37324-23-5 | Aroclor 1262 | 0.15 | 1.0 | < 1.0 U |
| 11100-14-4 | Aroclor 1268 | 0.15 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| | |
|-----------------------|-------|
| Decachlorobiphenyl | 83.8% |
| Tetrachlorometaxylene | 78.0% |

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/23/12

SURROGATES

| | RT WIN | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|-----|-------------|--------|--------|--------|--------|--------|--------|--------|------|
| TCX | 4.51- 4.71 | 1.3170 | 1.3646 | 1.3837 | 1.3019 | 1.2161 | 1.1301 | 1.2856 | 7.5 |
| DCB | 12.89-13.09 | 1.5532 | 1.4116 | 1.2892 | 1.1209 | 1.0329 | 0.9578 | 1.2276 | 18.8 |

| Aroclor-1016 | | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|--------------|------------|--------|--------|--------|--------|--------|--------|--------|------|
| Peak | RT WIN | .02 | 0.05 | 0.1 | .25 | 0.5 | 1.0 | | R^2 |
| 1 | 6.14- 6.34 | 0.0417 | 0.0367 | 0.0354 | 0.0316 | 0.0282 | 0.0266 | 0.0334 | 16.9 |
| 2 | 6.54- 6.74 | 0.1232 | 0.1236 | 0.1188 | 0.1058 | 0.0941 | 0.0874 | 0.1088 | 14.3 |
| 3 | 6.69- 6.89 | 0.0437 | 0.0495 | 0.0477 | 0.0425 | 0.0378 | 0.0362 | 0.0429 | 12.2 |
| 4 | 6.80- 7.00 | 0.0435 | 0.0388 | 0.0344 | 0.0304 | 0.0275 | 0.0283 | 0.0338 | 18.8 |

AROCLOR AVERAGE %RSD = 15.6

| Aroclor-1260 | | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|--------------|-------------|--------|--------|--------|--------|--------|--------|--------|------|
| Peak | RT WIN | .02 | 0.05 | 0.1 | .25 | 0.5 | 1.0 | | R^2 |
| 1 | 10.35-10.55 | 0.0523 | 0.0482 | 0.0458 | 0.0418 | 0.0380 | 0.0343 | 0.0434 | 15.4 |
| 2 | 10.72-10.92 | 0.1294 | 0.1187 | 0.1125 | 0.1027 | 0.0942 | 0.0887 | 0.1077 | 14.3 |
| 3 | 11.12-11.32 | 0.0705 | 0.0661 | 0.0631 | 0.0579 | 0.0530 | 0.0486 | 0.0599 | 13.8 |
| 4 | 11.24-11.44 | 0.0306 | 0.0284 | 0.0271 | 0.0247 | 0.0227 | 0.0207 | 0.0257 | 14.4 |
| 5 | 11.31-11.51 | 0.0354 | 0.0336 | 0.0323 | 0.0298 | 0.0276 | 0.0252 | 0.0307 | 12.5 |

AROCLOR AVERAGE %RSD = 14.1

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/23/12

SURROGATES

| | RT WIN | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|-----|-------------|--------|--------|--------|--------|--------|--------|--------|------|
| TCX | 4.51- 4.71 | 1.1260 | 1.1449 | 1.1900 | 1.1549 | 1.1019 | 1.0349 | 1.1254 | 4.7 |
| DCB | 13.27-13.47 | 1.1570 | 1.1117 | 1.0852 | 1.0055 | 0.9520 | 0.8908 | 1.0337 | 9.8 |

| Aroclor-1016 | | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|--------------|------------|--------|--------|--------|--------|--------|--------|--------|------|
| Peak | RT WIN | .02 | 0.05 | 0.1 | .25 | 0.5 | 1.0 | | R^2 |
| 1 | 6.25- 6.45 | 0.0494 | 0.0465 | 0.0456 | 0.0408 | 0.0365 | 0.0317 | 0.0418 | 16.0 |
| 2 | 6.87- 7.07 | 0.1060 | 0.1026 | 0.1017 | 0.0944 | 0.0866 | 0.0775 | 0.0948 | 11.6 |
| 3 | 7.26- 7.46 | 0.0271 | 0.0260 | 0.0260 | 0.0238 | 0.0227 | 0.0212 | 0.0245 | 9.3 |
| 4 | 7.36- 7.56 | 0.0300 | 0.0290 | 0.0288 | 0.0268 | 0.0252 | 0.0232 | 0.0272 | 9.6 |

AROCLOR AVERAGE %RSD = 11.6

| Aroclor-1260 | | LVL1 | LVL2 | LVL3 | LVL4 | LVL5 | LVL6 | MEAN | %RSD |
|--------------|-------------|--------|--------|--------|--------|--------|--------|--------|------|
| Peak | RT WIN | .02 | 0.05 | 0.1 | .25 | 0.5 | 1.0 | | R^2 |
| 1 | 10.32-10.52 | 0.0506 | 0.0489 | 0.0483 | 0.0452 | 0.0429 | 0.0394 | 0.0459 | 9.2 |
| 2 | 10.77-10.97 | 0.0635 | 0.0603 | 0.0595 | 0.0560 | 0.0534 | 0.0491 | 0.0570 | 9.1 |
| 3 | 11.04-11.24 | 0.1272 | 0.1225 | 0.1212 | 0.1139 | 0.1085 | 0.1009 | 0.1157 | 8.5 |
| 4 | 11.57-11.77 | 0.0384 | 0.0353 | 0.0348 | 0.0328 | 0.0317 | 0.0296 | 0.0338 | 9.1 |

AROCLOR AVERAGE %RSD = 9.0

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/23/12

| Aroclor-1221 | | | |
|--------------|-------|------------|------------|
| Peak | RT | RT WIN | Cal Factor |
| 1 | 4.884 | 4.78- 4.98 | 0.00600 |
| 2 | 5.153 | 5.05- 5.25 | 0.00966 |
| 3 | 5.258 | 5.16- 5.36 | 0.03163 |
| Aroclor-1232 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.238 | 6.14- 6.34 | 0.01394 |
| 2 | 6.639 | 6.54- 6.74 | 0.04636 |
| 3 | 6.788 | 6.69- 6.89 | 0.01880 |
| 4 | 7.980 | 7.88- 8.08 | 0.01806 |
| Aroclor-1242 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.242 | 6.14- 6.34 | 0.02518 |
| 2 | 6.642 | 6.54- 6.74 | 0.08396 |
| 3 | 6.791 | 6.69- 6.89 | 0.03350 |
| 4 | 7.983 | 7.88- 8.08 | 0.03120 |
| Aroclor-1248 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.640 | 6.54- 6.74 | 0.05616 |
| 2 | 7.438 | 7.34- 7.54 | 0.04243 |
| 3 | 7.984 | 7.88- 8.08 | 0.05435 |
| 4 | 8.274 | 8.17- 8.37 | 0.05485 |

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 05/23/12

| Aroclor-1254 | | | |
|--------------|--------|-------------|------------|
| Peak | RT | RT WIN | Cal Factor |
| 1 | 8.357 | 8.26- 8.46 | 0.07344 |
| 2 | 8.728 | 8.63- 8.83 | 0.04727 |
| 3 | 8.863 | 8.76- 8.96 | 0.09126 |
| 4 | 9.213 | 9.11- 9.31 | 0.09827 |
| 5 | 9.574 | 9.47- 9.67 | 0.06112 |
| Aroclor-1262 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 10.128 | 10.03-10.23 | 0.06377 |
| 2 | 10.444 | 10.34-10.54 | 0.04872 |
| 3 | 10.818 | 10.72-10.92 | 0.13314 |
| 4 | 11.334 | 11.23-11.43 | 0.04866 |
| 5 | 11.408 | 11.31-11.51 | 0.05533 |
| Aroclor-1268 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 11.336 | 11.24-11.44 | 0.13622 |
| 2 | 11.407 | 11.31-11.51 | 0.13695 |
| 3 | 11.793 | 11.69-11.89 | 0.11433 |
| 4 | 12.585 | 12.48-12.68 | 0.33618 |

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/23/12

| Aroclor-1221 | | | |
|--------------|-------|------------|------------|
| Peak | RT | RT WIN | Cal Factor |
| 1 | 5.290 | 5.19- 5.39 | 0.01261 |
| 2 | 5.536 | 5.44- 5.64 | 0.00745 |
| 3 | 5.649 | 5.55- 5.75 | 0.02330 |
| 4 | 5.717 | 5.62- 5.82 | 0.00427 |
| Aroclor-1232 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.345 | 6.25- 6.45 | 0.01927 |
| 2 | 6.971 | 6.87- 7.07 | 0.04034 |
| 3 | 7.179 | 7.08- 7.28 | 0.01361 |
| 4 | 8.325 | 8.23- 8.43 | 0.01492 |
| Aroclor-1242 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.348 | 6.25- 6.45 | 0.03264 |
| 2 | 6.974 | 6.87- 7.07 | 0.07413 |
| 3 | 7.182 | 7.08- 7.28 | 0.03012 |
| 4 | 8.327 | 8.23- 8.43 | 0.02619 |
| Aroclor-1248 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 6.971 | 6.87- 7.07 | 0.04804 |
| 2 | 7.875 | 7.77- 7.97 | 0.03849 |
| 3 | 8.327 | 8.23- 8.43 | 0.04628 |
| 4 | 8.747 | 8.65- 8.85 | 0.05224 |

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 05/23/12

| Aroclor-1254 | | | |
|--------------|--------|-------------|------------|
| Peak | RT | RT WIN | Cal Factor |
| 1 | 8.466 | 8.37- 8.57 | 0.03512 |
| 2 | 8.639 | 8.54- 8.74 | 0.04464 |
| 3 | 9.160 | 9.06- 9.26 | 0.03411 |
| 4 | 9.310 | 9.21- 9.41 | 0.07546 |
| 5 | 10.093 | 9.99-10.19 | 0.04423 |
| Aroclor-1262 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 10.419 | 10.32-10.52 | 0.07493 |
| 2 | 10.870 | 10.77-10.97 | 0.06463 |
| 3 | 11.142 | 11.04-11.24 | 0.14676 |
| 4 | 11.664 | 11.56-11.76 | 0.05904 |
| 5 | 12.463 | 12.36-12.56 | 0.05498 |
| Aroclor-1268 | | | |
| Peak | RT | RT WIN | Cal Factor |
| 1 | 11.664 | 11.56-11.76 | 0.15273 |
| 2 | 11.730 | 11.63-11.83 | 0.14397 |
| 3 | 12.128 | 12.03-12.23 | 0.12090 |
| 4 | 12.950 | 12.85-13.05 | 0.34151 |

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/23/12

Lab Standard ID: AR1248

Time Analyzed :2017

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1248-1 | 6.64 | 6.54 | 6.74 | 245.6 | 250.0 | -1.8 |
| Aroclor-1248-2 | 7.44 | 7.34 | 7.54 | 238.7 | 250.0 | -4.5 |
| Aroclor-1248-3 | 7.98 | 7.88 | 8.08 | 244.5 | 250.0 | -2.2 |
| Aroclor-1248-4 | 8.27 | 8.17 | 8.37 | 242.4 | 250.0 | -3.0 |

AVERAGE %D = 2.9

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/23/12

Lab Standard ID: AR1248

Time Analyzed :2017

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1248-1 | 6.97 | 6.87 | 7.07 | 241.9 | 250.0 | -3.2 |
| Aroclor-1248-2 | 7.87 | 7.77 | 7.97 | 229.1 | 250.0 | -8.4 |
| Aroclor-1248-3 | 8.33 | 8.23 | 8.43 | 231.0 | 250.0 | -7.6 |
| Aroclor-1248-4 | 8.75 | 8.65 | 8.85 | 240.1 | 250.0 | -3.9 |

AVERAGE %D = 5.8

FORM VII PCB

UU52:00219

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed : 05/23/12

Lab Standard ID: AR1660

Time Analyzed : 2037

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.24 | 6.14 | 6.34 | 232.8 | 250.0 | -6.9 |
| Aroclor-1016-2 | 6.64 | 6.54 | 6.74 | 241.7 | 250.0 | -3.3 |
| Aroclor-1016-3 | 6.79 | 6.69 | 6.89 | 244.3 | 250.0 | -2.3 |
| Aroclor-1016-4 | 6.90 | 6.80 | 7.00 | 223.0 | 250.0 | -10.8 |

AVERAGE %D = 5.8

Date Analyzed : 05/23/12

Lab Standard ID: AR1660

Time Analyzed : 2037

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.45 | 10.35 | 10.55 | 252.7 | 250.0 | 1.1 |
| Aroclor-1260-2 | 10.82 | 10.72 | 10.92 | 250.5 | 250.0 | 0.2 |
| Aroclor-1260-3 | 11.22 | 11.12 | 11.32 | 253.0 | 250.0 | 1.2 |
| Aroclor-1260-4 | 11.34 | 11.24 | 11.44 | 247.4 | 250.0 | -1.0 |
| Aroclor-1260-5 | 11.41 | 11.31 | 11.51 | 251.1 | 250.0 | 0.4 |

AVERAGE %D = 0.8

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/23/12

Lab Standard ID: AR1660

Time Analyzed :2037

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|------|-----------|------|------------------|-----------------|------|
| | | FROM | TO | | | |
| Aroclor-1016-1 | 6.35 | 6.25 | 6.45 | 244.5 | 250.0 | -2.2 |
| Aroclor-1016-2 | 6.97 | 6.87 | 7.07 | 249.0 | 250.0 | -0.4 |
| Aroclor-1016-3 | 7.36 | 7.26 | 7.46 | 253.7 | 250.0 | 1.5 |
| Aroclor-1016-4 | 7.46 | 7.36 | 7.56 | 246.3 | 250.0 | -1.5 |

AVERAGE %D = 1.4

Date Analyzed :05/23/12

Lab Standard ID: AR1660

Time Analyzed :2037

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-----|
| | | FROM | TO | | | |
| Aroclor-1260-1 | 10.42 | 10.32 | 10.52 | 258.2 | 250.0 | 3.3 |
| Aroclor-1260-2 | 10.87 | 10.77 | 10.97 | 262.8 | 250.0 | 5.1 |
| Aroclor-1260-3 | 11.14 | 11.04 | 11.24 | 265.3 | 250.0 | 6.1 |
| Aroclor-1260-4 | 11.66 | 11.57 | 11.77 | 258.8 | 250.0 | 3.5 |

AVERAGE %D = 4.5

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/24/12

Lab Standard ID: AR1254

Time Analyzed :0005

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1254-1 | 8.47 | 8.37 | 8.57 | 249.8 | 250.0 | -0.1 |
| Aroclor-1254-2 | 8.64 | 8.54 | 8.74 | 250.5 | 250.0 | 0.2 |
| Aroclor-1254-3 | 9.16 | 9.06 | 9.26 | 250.3 | 250.0 | 0.1 |
| Aroclor-1254-4 | 9.31 | 9.21 | 9.41 | 248.6 | 250.0 | -0.5 |
| Aroclor-1254-5 | 10.09 | 9.99 | 10.19 | 250.7 | 250.0 | 0.3 |

AVERAGE %D = 0.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB5

Intrument: ECDS

Init. Calib. Date: 05/23/12

Date Analyzed :05/24/12

Lab Standard ID: AR1254

Time Analyzed :0005

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1254-1 | 8.36 | 8.26 | 8.46 | 252.8 | 250.0 | 1.1 |
| Aroclor-1254-2 | 8.73 | 8.63 | 8.83 | 254.3 | 250.0 | 1.7 |
| Aroclor-1254-3 | 8.86 | 8.76 | 8.96 | 254.2 | 250.0 | 1.7 |
| Aroclor-1254-4 | 9.21 | 9.11 | 9.31 | 255.3 | 250.0 | 2.1 |
| Aroclor-1254-5 | 9.57 | 9.47 | 9.67 | 255.9 | 250.0 | 2.4 |

AVERAGE %D = 1.8

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/24/12

Lab Standard ID: AR1660

Time Analyzed :0024

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|------|-----------|------|------------------|-----------------|------|
| | | FROM | TO | | | |
| Aroclor-1016-1 | 6.35 | 6.25 | 6.45 | 243.7 | 250.0 | -2.5 |
| Aroclor-1016-2 | 6.97 | 6.87 | 7.07 | 247.5 | 250.0 | -1.0 |
| Aroclor-1016-3 | 7.36 | 7.26 | 7.46 | 244.0 | 250.0 | -2.4 |
| Aroclor-1016-4 | 7.46 | 7.36 | 7.56 | 247.1 | 250.0 | -1.1 |

AVERAGE %D = 1.8

Date Analyzed :05/24/12

Lab Standard ID: AR1660

Time Analyzed :0024

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-----|
| | | FROM | TO | | | |
| Aroclor-1260-1 | 10.42 | 10.32 | 10.52 | 254.3 | 250.0 | 1.7 |
| Aroclor-1260-2 | 10.87 | 10.77 | 10.97 | 254.7 | 250.0 | 1.9 |
| Aroclor-1260-3 | 11.14 | 11.04 | 11.24 | 255.5 | 250.0 | 2.2 |
| Aroclor-1260-4 | 11.67 | 11.57 | 11.77 | 252.1 | 250.0 | 0.8 |

AVERAGE %D = 1.6

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/24/12

Lab Standard ID: AR1660

Time Analyzed :0024

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.24 | 6.14 | 6.34 | 236.4 | 250.0 | -5.4 |
| Aroclor-1016-2 | 6.64 | 6.54 | 6.74 | 244.5 | 250.0 | -2.2 |
| Aroclor-1016-3 | 6.79 | 6.69 | 6.89 | 247.3 | 250.0 | -1.1 |
| Aroclor-1016-4 | 6.90 | 6.80 | 7.00 | 226.0 | 250.0 | -9.6 |

AVERAGE %D = 4.6

Date Analyzed :05/24/12

Lab Standard ID: AR1660

Time Analyzed :0024

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.45 | 10.35 | 10.55 | 248.1 | 250.0 | -0.7 |
| Aroclor-1260-2 | 10.82 | 10.72 | 10.92 | 243.9 | 250.0 | -2.4 |
| Aroclor-1260-3 | 11.22 | 11.12 | 11.32 | 248.6 | 250.0 | -0.5 |
| Aroclor-1260-4 | 11.34 | 11.24 | 11.44 | 245.3 | 250.0 | -1.9 |
| Aroclor-1260-5 | 11.41 | 11.31 | 11.51 | 249.6 | 250.0 | -0.2 |

AVERAGE %D = 1.1

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/25/12

Lab Standard ID: AR1254

Time Analyzed :2134

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1254-1 | 8.36 | 8.26 | 8.46 | 210.5 | 250.0 | -15.8 |
| Aroclor-1254-2 | 8.73 | 8.63 | 8.83 | 215.3 | 250.0 | -13.9 |
| Aroclor-1254-3 | 8.86 | 8.76 | 8.96 | 222.1 | 250.0 | -11.2 |
| Aroclor-1254-4 | 9.21 | 9.11 | 9.31 | 225.5 | 250.0 | -9.8 |
| Aroclor-1254-5 | 9.57 | 9.47 | 9.67 | 225.5 | 250.0 | -9.8 |

AVERAGE %D = 12.1

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/25/12

Lab Standard ID: AR1254

Time Analyzed :2134

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1254-1 | 8.47 | 8.37 | 8.57 | 214.0 | 250.0 | -14.4 |
| Aroclor-1254-2 | 8.64 | 8.54 | 8.74 | 214.1 | 250.0 | -14.3 |
| Aroclor-1254-3 | 9.16 | 9.06 | 9.26 | 213.6 | 250.0 | -14.6 |
| Aroclor-1254-4 | 9.31 | 9.21 | 9.41 | 213.7 | 250.0 | -14.5 |
| Aroclor-1254-5 | 10.09 | 9.99 | 10.19 | 208.2 | 250.0 | -16.7 |

AVERAGE %D = 14.9

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/25/12

Lab Standard ID: AR1660

Time Analyzed :2153

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.24 | 6.14 | 6.34 | 259.6 | 250.0 | 3.8 |
| Aroclor-1016-2 | 6.64 | 6.54 | 6.74 | 258.6 | 250.0 | 3.4 |
| Aroclor-1016-3 | 6.79 | 6.69 | 6.89 | 274.8 | 250.0 | 9.9 |
| Aroclor-1016-4 | 6.90 | 6.80 | 7.00 | 267.4 | 250.0 | 6.9 |

AVERAGE %D = 6.0

Date Analyzed :05/25/12

Lab Standard ID: AR1660

Time Analyzed :2153

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.45 | 10.35 | 10.55 | 289.1 | 250.0 | 15.6 |
| Aroclor-1260-2 | 10.82 | 10.72 | 10.92 | 266.7 | 250.0 | 6.7 |
| Aroclor-1260-3 | 11.22 | 11.12 | 11.32 | 272.4 | 250.0 | 9.0 |
| Aroclor-1260-4 | 11.34 | 11.24 | 11.44 | 273.3 | 250.0 | 9.3 |
| Aroclor-1260-5 | 11.41 | 11.31 | 11.51 | 280.5 | 250.0 | 12.2 |

AVERAGE %D = 10.6

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/25/12

Lab Standard ID: AR1660

Time Analyzed :2153

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.35 | 6.25 | 6.45 | 243.0 | 250.0 | -2.8 |
| Aroclor-1016-2 | 6.97 | 6.87 | 7.07 | 248.5 | 250.0 | -0.6 |
| Aroclor-1016-3 | 7.36 | 7.26 | 7.46 | 257.9 | 250.0 | 3.2 |
| Aroclor-1016-4 | 7.46 | 7.36 | 7.56 | 248.3 | 250.0 | -0.7 |

AVERAGE %D = 1.8

Date Analyzed :05/25/12

Lab Standard ID: AR1660

Time Analyzed :2153

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.42 | 10.32 | 10.52 | 283.5 | 250.0 | 13.4 |
| Aroclor-1260-2 | 10.87 | 10.77 | 10.97 | 286.2 | 250.0 | 14.5 |
| Aroclor-1260-3 | 11.14 | 11.04 | 11.24 | 280.3 | 250.0 | 12.1 |
| Aroclor-1260-4 | 11.67 | 11.57 | 11.77 | 261.5 | 250.0 | 4.6 |

AVERAGE %D = 11.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1242

Time Analyzed :0103

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|------|-----------|------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| Aroclor-1242-1 | 6.24 | 6.14 | 6.34 | 240.4 | 250.0 | -3.8 |
| Aroclor-1242-2 | 6.64 | 6.54 | 6.74 | 238.6 | 250.0 | -4.5 |
| Aroclor-1242-3 | 6.79 | 6.69 | 6.89 | 242.7 | 250.0 | -2.9 |
| Aroclor-1242-4 | 7.98 | 7.88 | 8.08 | 218.9 | 250.0 | -12.4 |

AVERAGE %D = 5.9

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1242

Time Analyzed :0103

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1242-1 | 6.35 | 6.25 | 6.45 | 235.3 | 250.0 | -5.9 |
| Aroclor-1242-2 | 6.97 | 6.87 | 7.07 | 228.3 | 250.0 | -8.7 |
| Aroclor-1242-3 | 7.18 | 7.08 | 7.28 | 223.9 | 250.0 | -10.4 |
| Aroclor-1242-4 | 8.33 | 8.23 | 8.43 | 217.8 | 250.0 | -12.9 |

AVERAGE %D = 9.5

FORM VII PCB

UU52:00231

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0122

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|------|-----------|------|------------------|-----------------|------|
| | | FROM | TO | | | |
| Aroclor-1016-1 | 6.24 | 6.14 | 6.34 | 240.0 | 250.0 | -4.0 |
| Aroclor-1016-2 | 6.64 | 6.54 | 6.74 | 243.9 | 250.0 | -2.4 |
| Aroclor-1016-3 | 6.79 | 6.69 | 6.89 | 253.5 | 250.0 | 1.4 |
| Aroclor-1016-4 | 6.90 | 6.80 | 7.00 | 244.3 | 250.0 | -2.3 |

AVERAGE %D = 2.5

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0122

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|------|
| | | FROM | TO | | | |
| Aroclor-1260-1 | 10.45 | 10.35 | 10.55 | 273.0 | 250.0 | 9.2 |
| Aroclor-1260-2 | 10.82 | 10.72 | 10.92 | 259.1 | 250.0 | 3.6 |
| Aroclor-1260-3 | 11.22 | 11.12 | 11.32 | 238.4 | 250.0 | -4.6 |
| Aroclor-1260-4 | 11.34 | 11.24 | 11.44 | 234.5 | 250.0 | -6.2 |
| Aroclor-1260-5 | 11.41 | 11.31 | 11.51 | 241.4 | 250.0 | -3.4 |

AVERAGE %D = 5.4

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0122

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.35 | 6.25 | 6.45 | 236.3 | 250.0 | -5.5 |
| Aroclor-1016-2 | 6.97 | 6.87 | 7.07 | 238.0 | 250.0 | -4.8 |
| Aroclor-1016-3 | 7.36 | 7.26 | 7.46 | 229.6 | 250.0 | -8.2 |
| Aroclor-1016-4 | 7.46 | 7.36 | 7.56 | 229.5 | 250.0 | -8.2 |

AVERAGE %D = 6.7

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0122

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.42 | 10.32 | 10.52 | 219.8 | 250.0 | -12.1 |
| Aroclor-1260-2 | 10.87 | 10.77 | 10.97 | 264.6 | 250.0 | 5.8 |
| Aroclor-1260-3 | 11.14 | 11.04 | 11.24 | 262.4 | 250.0 | 5.0 |
| Aroclor-1260-4 | 11.66 | 11.57 | 11.77 | 231.7 | 250.0 | -7.3 |

AVERAGE %D = 7.5

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1248

Time Analyzed :0316

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|------|-----------|------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| Aroclor-1248-1 | 6.64 | 6.54 | 6.74 | 232.5 | 250.0 | -7.0 |
| Aroclor-1248-2 | 7.44 | 7.34 | 7.54 | 222.6 | 250.0 | -10.9 |
| Aroclor-1248-3 | 7.98 | 7.88 | 8.08 | 219.4 | 250.0 | -12.2 |
| Aroclor-1248-4 | 8.27 | 8.17 | 8.37 | 210.2 | 250.0 | -15.9 |

AVERAGE %D = 11.5

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1248

Time Analyzed :0316

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1248-1 | 6.97 | 6.87 | 7.07 | 224.1 | 250.0 | -10.4 |
| Aroclor-1248-2 | 7.87 | 7.77 | 7.97 | 208.6 | 250.0 | -16.6 |
| Aroclor-1248-3 | 8.33 | 8.23 | 8.43 | 211.4 | 250.0 | -15.4 |
| Aroclor-1248-4 | 8.75 | 8.65 | 8.85 | 203.9 | 250.0 | -18.4 |

AVERAGE %D = 15.2

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0335

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.24 | 6.14 | 6.34 | 239.1 | 250.0 | -4.4 |
| Aroclor-1016-2 | 6.64 | 6.54 | 6.74 | 243.2 | 250.0 | -2.7 |
| Aroclor-1016-3 | 6.79 | 6.69 | 6.89 | 252.7 | 250.0 | 1.1 |
| Aroclor-1016-4 | 6.90 | 6.80 | 7.00 | 242.3 | 250.0 | -3.1 |

AVERAGE %D = 2.8

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0335

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------|-----------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.45 | 10.35 | 10.55 | 265.0 | 250.0 | 6.0 |
| Aroclor-1260-2 | 10.82 | 10.72 | 10.92 | 254.5 | 250.0 | 1.8 |
| Aroclor-1260-3 | 11.22 | 11.12 | 11.32 | 236.7 | 250.0 | -5.3 |
| Aroclor-1260-4 | 11.34 | 11.24 | 11.44 | 231.0 | 250.0 | -7.6 |
| Aroclor-1260-5 | 11.41 | 11.31 | 11.51 | 237.8 | 250.0 | -4.9 |

AVERAGE %D = 5.1

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35

Intrument: ECD5

Init. Calib. Date: 05/23/12

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0335

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1016-1 | 6.35 | 6.25 | 6.45 | 237.7 | 250.0 | -4.9 |
| Aroclor-1016-2 | 6.97 | 6.87 | 7.07 | 238.7 | 250.0 | -4.5 |
| Aroclor-1016-3 | 7.36 | 7.26 | 7.46 | 227.4 | 250.0 | -9.0 |
| Aroclor-1016-4 | 7.46 | 7.36 | 7.56 | 224.6 | 250.0 | -10.1 |

AVERAGE %D = 7.1

Date Analyzed :05/26/12

Lab Standard ID: AR1660

Time Analyzed :0335

| COMPOUND/PEAK NO. | RT | RT WINDOW | | CALC AMOUNT (ng) | NOM AMOUNT (ng) | %D |
|-------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aroclor-1260-1 | 10.42 | 10.32 | 10.52 | 233.8 | 250.0 | -6.5 |
| Aroclor-1260-2 | 10.87 | 10.77 | 10.97 | 269.9 | 250.0 | 7.9 |
| Aroclor-1260-3 | 11.14 | 11.04 | 11.24 | 264.5 | 250.0 | 5.8 |
| Aroclor-1260-4 | 11.67 | 11.57 | 11.77 | 237.2 | 250.0 | -5.1 |

AVERAGE %D = 6.3

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|-----------|-------------|-----------|--------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | | | | 154228462 | 2.409 | 248602423 | 13.353 | |
| UPPER LIMIT | | | | 308456924 | 2.509 | 497204846 | 13.453 | |
| LOWER LIMIT | | | | 77114231 | 2.309 | 124301212 | 13.253 | |
| ===== | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | ZZZZZ | ZZZZZ | 05/23/12 | 1125 | 151362399 | 2.409 | 242394135 | 13.352 |
| 02 | | 0.25PPM AR16 | 05/23/12 | 1144 | 154228462 | 2.409 | 248602423 | 13.353 |
| 03 | | 0.02 PPM AR1 | 05/23/12 | 1203 | 155920235 | 2.409 | 247239477 | 13.353 |
| 04 | | 0.05 PPM AR1 | 05/23/12 | 1222 | 160667727 | 2.409 | 259094728 | 13.353 |
| 05 | | 1 PPM AR1660 | 05/23/12 | 1241 | 151523547 | 2.408 | 250278423 | 13.352 |
| 06 | | 0.1 PPM AR16 | 05/23/12 | 1301 | 160526987 | 2.408 | 260875166 | 13.352 |
| 07 | | 0.5 PPM ARR1 | 05/23/12 | 1320 | 157116261 | 2.408 | 255504461 | 13.352 |
| 08 | | AR1242 | 05/23/12 | 1339 | 158724720 | 2.408 | 254953104 | 13.352 |
| 09 | | AR1248 | 05/23/12 | 1358 | 156181919 | 2.408 | 256386929 | 13.351 |
| 10 | | AR1254 | 05/23/12 | 1417 | 161042809 | 2.408 | 259540024 | 13.351 |
| 11 | | AR2162 | 05/23/12 | 1436 | 162569387 | 2.408 | 261988725 | 13.352 |
| 12 | | AR3268 | 05/23/12 | 1455 | 159979493 | 2.408 | 255983137 | 13.353 |
| 13 | ZZZZZ | ZZZZZ | 05/23/12 | 1514 | 159402616 | 2.409 | 257592431 | 13.351 |
| 14 | ZZZZZ | ZZZZZ | 05/23/12 | 1533 | 160396254 | 2.409 | 259869369 | 13.352 |
| 15 | ZZZZZ | ZZZZZ | 05/23/12 | 1552 | 162864330 | 2.409 | 264734547 | 13.353 |
| 16 | ZZZZZ | ZZZZZ | 05/23/12 | 1611 | 162740264 | 2.408 | 264518414 | 13.352 |
| 17 | ZZZZZ | ZZZZZ | 05/23/12 | 1630 | 163574544 | 2.407 | 271794659 | 13.351 |
| 18 | ZZZZZ | ZZZZZ | 05/23/12 | 1649 | 160640381 | 2.408 | 259555077 | 13.351 |
| 19 | | AR1254 | 05/25/12 | 2134 | 173442054 | 2.412 | 210335776 | 13.353 |
| 20 | | AR1660 | 05/25/12 | 2153 | 183205555 | 2.413 | 232118987 | 13.353 |
| 21 | UU52MBS1 | UU52MBS1 | 05/25/12 | 2212 | 151934719 | 2.411 | 203842677 | 13.354 |
| 22 | UU52LCSS1 | UU52LCSS1 | 05/25/12 | 2231 | 166230424 | 2.412 | 227742315 | 13.354 |
| 23 | MS001-SS-120 | UU52A | 05/25/12 | 2250 | 137150739 | 2.413 | 187389119 | 13.355 |
| 24 | MS101-SS-120 | UU52B | 05/25/12 | 2309 | 155679232 | 2.412 | 203740008 | 13.355 |
| 25 | MS002-SS-120 | UU52C | 05/25/12 | 2328 | 148018037 | 2.412 | 201405366 | 13.356 |
| 26 | MS003-SS-120 | UU52D | 05/25/12 | 2347 | 158091448 | 2.413 | 206785616 | 13.355 |
| 27 | MS004-SS-120 | UU52E | 05/26/12 | 0006 | 155584352 | 2.414 | 186599931 | 13.354 |
| 28 | MS005-SS-120 | UU52F | 05/26/12 | 0025 | 172898823 | 2.412 | 187722287 | 13.356 |
| 29 | MS006-SS-120 | UU52G | 05/26/12 | 0044 | 186718284 | 2.412 | 189013662 | 13.355 |
| 30 | | AR1242 | 05/26/12 | 0103 | 176614782 | 2.412 | 193649204 | 13.354 |
| 31 | | AR1660 | 05/26/12 | 0122 | 186031488 | 2.413 | 214386625 | 13.352 |
| 32 | MS007-SS-120 | UU52H | 05/26/12 | 0141 | 172760776 | 2.412 | 210736401 | 13.354 |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- 0.1 min

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB5

ID: 0.53(mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|--------------------------|------------------|-------|-------------|-------|-------------|--------|
| ===== | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | 154228462 | 2.409 | 248602423 | 13.353 |
| UPPER LIMIT | | | | 308456924 | 2.509 | 497204846 | 13.453 |
| LOWER LIMIT | | | | 77114231 | 2.309 | 124301212 | 13.253 |
| ===== | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 33 | MS008-SS-120 UU52I | 05/26/12 | 0200 | 170997221 | 2.413 | 204648375 | 13.355 |
| 34 | MS009-SS-120 UU52J | 05/26/12 | 0219 | 165312726 | 2.413 | 213969653 | 13.353 |
| 35 | MS009-SS-120 UU52JMS | 05/26/12 | 0238 | 170569379 | 2.414 | 215844910 | 13.353 |
| 36 | MS009-SS-120 UU52JMSD | 05/26/12 | 0257 | 158624279 | 2.414 | 200326069 | 13.354 |
| 37 | AR1248 | 05/26/12 | 0316 | 180219526 | 2.413 | 206032453 | 13.353 |
| 38 | AR1660 | 05/26/12 | 0335 | 186870454 | 2.412 | 221590214 | 13.353 |

IS1 = 1-Bromo-2-Nitrobenzene

RT Window = RT +/- 0.1 min

IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|----------|-------------|-------------|-------------|-------------|--------|
| ===== | | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | | 110618229 | 2.893 | 108855531 | 14.232 |
| UPPER LIMIT | | | | | 221236458 | 2.993 | 217711062 | 14.332 |
| LOWER LIMIT | | | | | 55309114 | 2.793 | 54427766 | 14.132 |
| ===== | | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | ZZZZZ | ZZZZZ | 05/23/12 | 1125 | 109883399 | 2.894 | 107569893 | 14.232 |
| 02 | | 0.25PPM AR16 | 05/23/12 | 1144 | 110618229 | 2.893 | 108855531 | 14.232 |
| 03 | | 0.02 PPM AR1 | 05/23/12 | 1203 | 110153498 | 2.893 | 108023463 | 14.232 |
| 04 | | 0.05 PPM AR1 | 05/23/12 | 1222 | 114159374 | 2.893 | 112747731 | 14.231 |
| 05 | | 1 PPM AR1660 | 05/23/12 | 1241 | 108018292 | 2.893 | 108555775 | 14.230 |
| 06 | | 0.1 PPM AR16 | 05/23/12 | 1301 | 113263758 | 2.893 | 111845806 | 14.231 |
| 07 | | 0.5 PPM ARR1 | 05/23/12 | 1320 | 111611648 | 2.893 | 109698277 | 14.232 |
| 08 | | AR1242 | 05/23/12 | 1339 | 111472971 | 2.893 | 109000932 | 14.232 |
| 09 | | AR1248 | 05/23/12 | 1358 | 110993433 | 2.894 | 110340661 | 14.232 |
| 10 | | AR1254 | 05/23/12 | 1417 | 113709110 | 2.893 | 111392465 | 14.231 |
| 11 | | AR2162 | 05/23/12 | 1436 | 110843806 | 2.894 | 112143757 | 14.232 |
| 12 | | AR3268 | 05/23/12 | 1455 | 110553251 | 2.894 | 110210828 | 14.232 |
| 13 | ZZZZZ | ZZZZZ | 05/23/12 | 1514 | 113559639 | 2.895 | 110023028 | 14.232 |
| 14 | ZZZZZ | ZZZZZ | 05/23/12 | 1533 | 113869542 | 2.894 | 110961202 | 14.231 |
| 15 | ZZZZZ | ZZZZZ | 05/23/12 | 1552 | 115475995 | 2.895 | 113328734 | 14.232 |
| 16 | ZZZZZ | ZZZZZ | 05/23/12 | 1611 | 114989370 | 2.895 | 113322609 | 14.232 |
| 17 | ZZZZZ | ZZZZZ | 05/23/12 | 1630 | 111586981 | 2.893 | 116428224 | 14.231 |
| 18 | ZZZZZ | ZZZZZ | 05/23/12 | 1649 | 112744652 | 2.893 | 112598173 | 14.231 |
| 19 | | AR1254 | 05/25/12 | 2134 | 117403542 | 2.898 | 87153825 | 14.233 |
| 20 | | AR1660 | 05/25/12 | 2153 | 129531011 | 2.898 | 96406184 | 14.233 |
| 21 | UU52MBS1 | UU52MBS1 | 05/25/12 | 2212 | 107842922 | 2.896 | 82401791 | 14.232 |
| 22 | UU52LCSS1 | UU52LCSS1 | 05/25/12 | 2231 | 118374711 | 2.897 | 91190750 | 14.234 |
| 23 | MS001-SS-120 | UU52A | 05/25/12 | 2250 | 89256090 | 2.899 | 75797350 | 14.233 |
| 24 | MS101-SS-120 | UU52B | 05/25/12 | 2309 | 97771108 | 2.899 | 82250498 | 14.233 |
| 25 | MS002-SS-120 | UU52C | 05/25/12 | 2328 | 95290249 | 2.898 | 75841965 | 14.233 |
| 26 | MS003-SS-120 | UU52D | 05/25/12 | 2347 | 103030460 | 2.900 | 76927516 | 14.233 |
| 27 | MS004-SS-120 | UU52E | 05/26/12 | 0006 | 89134654 | 2.900 | 73010686 | 14.233 |
| 28 | MS005-SS-120 | UU52F | 05/26/12 | 0025 | 100165112 | 2.898 | 76493069 | 14.234 |
| 29 | MS006-SS-120 | UU52G | 05/26/12 | 0044 | 94995771 | 2.898 | 81349843 | 14.234 |
| 30 | | AR1242 | 05/26/12 | 0103 | 121560832 | 2.898 | 80152570 | 14.234 |
| 31 | | AR1660 | 05/26/12 | 0122 | 131165353 | 2.898 | 87667967 | 14.232 |
| 32 | MS007-SS-120 | UU52H | 05/26/12 | 0141 | 103821331 | 2.899 | 85307879 | 14.233 |

IS1 = 1-Bromo-2-Nitrobenzene
IS2 = Hexabromobiphenyl

RT Window = RT +/- 0.1 min

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC.

ARI Job No.: UU52

Project: JELD WEN MAULSBY MARSH

GC Column: ZB35 ID: 0.53(mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT |
|----------------------|------------------|------------------|---------------|-------------|-------|-------------|--------|
| ===== | | | | ===== | ===== | ===== | ===== |
| ICAL MIDPT | | | | 110618229 | 2.893 | 108855531 | 14.232 |
| UPPER LIMIT | | | | 221236458 | 2.993 | 217711062 | 14.332 |
| LOWER LIMIT | | | | 55309114 | 2.793 | 54427766 | 14.132 |
| ===== | | | | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 33 | MS008-SS-120 | UU52I | 05/26/12 0200 | 110753933 | 2.898 | 81238436 | 14.234 |
| 34 | MS009-SS-120 | UU52J | 05/26/12 0219 | 114133347 | 2.899 | 79253731 | 14.233 |
| 35 | MS009-SS-120 | UU52JMS | 05/26/12 0238 | 115176537 | 2.899 | 78007406 | 14.232 |
| 36 | MS009-SS-120 | UU52JMSD | 05/26/12 0257 | 106578291 | 2.899 | 74927298 | 14.233 |
| 37 | | AR1248 | 05/26/12 0316 | 127736774 | 2.898 | 86154804 | 14.232 |
| 38 | | AR1660 | 05/26/12 0335 | 132614849 | 2.897 | 91835798 | 14.233 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|-----------|-------------|-----------|--------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | | | | 154228462 | 2.409 | 248602423 | 13.353 | |
| UPPER LIMIT | | | | 308456924 | 2.509 | 497204846 | 13.453 | |
| LOWER LIMIT | | | | 77114231 | 2.309 | 124301212 | 13.253 | |
| ===== | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | 0.25PPM AR16 | 05/23/12 | 1144 | 154228462 | 2.409 | 248602423 | 13.353 | |
| 02 | 0.02 PPM AR1 | 05/23/12 | 1203 | 155920235 | 2.409 | 247239477 | 13.353 | |
| 03 | 0.05 PPM AR1 | 05/23/12 | 1222 | 160667727 | 2.409 | 259094728 | 13.353 | |
| 04 | 1 PPM AR1660 | 05/23/12 | 1241 | 151523547 | 2.408 | 250278423 | 13.352 | |
| 05 | 0.1 PPM AR16 | 05/23/12 | 1301 | 160526987 | 2.408 | 260875166 | 13.352 | |
| 06 | 0.5 PPM ARR1 | 05/23/12 | 1320 | 157116261 | 2.408 | 255504461 | 13.352 | |
| 07 | AR1242 | 05/23/12 | 1339 | 158724720 | 2.408 | 254953104 | 13.352 | |
| 08 | AR1248 | 05/23/12 | 1358 | 156181919 | 2.408 | 256386929 | 13.351 | |
| 09 | AR1254 | 05/23/12 | 1417 | 161042809 | 2.408 | 259540024 | 13.351 | |
| 10 | AR2162 | 05/23/12 | 1436 | 162569387 | 2.408 | 261988725 | 13.352 | |
| 11 | AR3268 | 05/23/12 | 1455 | 159979493 | 2.408 | 255983137 | 13.353 | |
| 12 | AR1248 | 05/23/12 | 2017 | 157953737 | 2.412 | 233547465 | 13.354 | |
| 13 | AR1660 | 05/23/12 | 2037 | 163348755 | 2.411 | 243593184 | 13.354 | |
| 14 | UU62MBW1 | UU62MBW1 | 05/23/12 | 2211 | 150139970 | 2.413 | 280007398 | 13.353 |
| 15 | UU62LCSW1 | UU62LCSW1 | 05/23/12 | 2230 | 146162804 | 2.413 | 278529213 | 13.354 |
| 16 | UU62LCSDW1 | UU62LCSDW1 | 05/23/12 | 2249 | 145934035 | 2.413 | 285560925 | 13.355 |
| 17 | MS-SSRB-1205 | UU62J | 05/23/12 | 2327 | 145833693 | 2.414 | 274879722 | 13.354 |
| 18 | MS-SSFb-1205 | UU62K | 05/23/12 | 2346 | 143187362 | 2.412 | 276489856 | 13.355 |
| 19 | | AR1254 | 05/24/12 | 0005 | 160327246 | 2.410 | 252246910 | 13.353 |
| 20 | | AR1660 | 05/24/12 | 0024 | 161663605 | 2.410 | 256774071 | 13.354 |

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

ARI Job No.: UU62

Project: JELD WEN - MAULSBY MARSH

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD5

Init. Calib. Date: 05/23/12

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

| | | | | IS1 AREA | RT | IS2 AREA | RT | |
|----------------------|------------------|------------------|----------|-------------|-----------|-------------|-----------|--------|
| ===== | | | | ===== | ===== | ===== | ===== | |
| ICAL MIDPT | | | | 110618229 | 2.893 | 108855531 | 14.232 | |
| UPPER LIMIT | | | | 221236458 | 2.993 | 217711062 | 14.332 | |
| LOWER LIMIT | | | | 55309114 | 2.793 | 54427766 | 14.132 | |
| ===== | | | | ===== | ===== | ===== | ===== | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME | IS1 AREA | RT | IS2 AREA | RT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | 0.25PPM AR16 | 05/23/12 | 1144 | 110618229 | 2.893 | 108855531 | 14.232 | |
| 02 | 0.02 PPM AR1 | 05/23/12 | 1203 | 110153498 | 2.893 | 108023463 | 14.232 | |
| 03 | 0.05 PPM AR1 | 05/23/12 | 1222 | 114159374 | 2.893 | 112747731 | 14.231 | |
| 04 | 1 PPM AR1660 | 05/23/12 | 1241 | 108018292 | 2.893 | 108555775 | 14.230 | |
| 05 | 0.1 PPM AR16 | 05/23/12 | 1301 | 113263758 | 2.893 | 111845806 | 14.231 | |
| 06 | 0.5 PPM ARR1 | 05/23/12 | 1320 | 111611648 | 2.893 | 109698277 | 14.232 | |
| 07 | AR1242 | 05/23/12 | 1339 | 111472971 | 2.893 | 109000932 | 14.232 | |
| 08 | AR1248 | 05/23/12 | 1358 | 110993433 | 2.894 | 110340661 | 14.232 | |
| 09 | AR1254 | 05/23/12 | 1417 | 113709110 | 2.893 | 111392465 | 14.231 | |
| 10 | AR2162 | 05/23/12 | 1436 | 110843806 | 2.894 | 112143757 | 14.232 | |
| 11 | AR3268 | 05/23/12 | 1455 | 110553251 | 2.894 | 110210828 | 14.232 | |
| 12 | AR1248 | 05/23/12 | 2017 | 112376967 | 2.897 | 103819809 | 14.232 | |
| 13 | AR1660 | 05/23/12 | 2037 | 115501356 | 2.895 | 106216352 | 14.233 | |
| 14 | UU62MBW1 | UU62MBW1 | 05/23/12 | 2211 | 122436878 | 2.896 | 121592797 | 14.233 |
| 15 | UU62LCSW1 | UU62LCSW1 | 05/23/12 | 2230 | 120879756 | 2.897 | 120832932 | 14.233 |
| 16 | UU62LCSDW1 | UU62LCSDW1 | 05/23/12 | 2249 | 122645230 | 2.897 | 123839457 | 14.233 |
| 17 | MS-SSRB-1205 | UU62J | 05/23/12 | 2327 | 120702373 | 2.898 | 119021355 | 14.231 |
| 18 | MS-SSFB-1205 | UU62K | 05/23/12 | 2346 | 119881217 | 2.896 | 120505308 | 14.233 |
| 19 | | AR1254 | 05/24/12 | 0005 | 116212123 | 2.896 | 110664641 | 14.233 |
| 20 | | AR1660 | 05/24/12 | 0024 | 117932972 | 2.895 | 112374282 | 14.233 |

IS1 = 1-Bromo-2-Nitrobenzene

RT Window = RT +/- 0.1 min

IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

**TPHD Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

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

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

Data Release Authorized:
Reported: 05/23/12

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | MDL | RL | Result |
|----------------------|---|-----------------|-------------------|-------------|------------------------------------|------------|-----------|----------------------------|
| UU52A 12-8893 | MS001-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 13 16 | 51 100 | 53 150 92.8% |
| UU52B 12-8894 | MS101-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 13 16 | 50 100 | 54 140 103% |
| UU52C 12-8895 | MS002-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 12 15 | 48 97 | 69 180 101% |
| UU52D 12-8896 | MS003-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 14 17 | 53 110 | 71 170 103% |
| UU52E 12-8897 | MS004-SS-120515 HC ID: MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 13 16 | 52 100 | < 52 U 110 103% |
| UU52F 12-8898 | MS005-SS-120515 HC ID: MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 14 17 | 54 110 | < 54 U 160 103% |
| UU52G 12-8899 | MS006-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 14 17 | 53 110 | 64 190 101% |
| UU52H 12-8900 | MS007-SS-120515 HC ID: DRO/MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 7.9 9.6 | 31 61 | 37 120 104% |
| MB-052112 12-8901 | Method Blank HC ID: --- | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 1.3 1.6 | 5.0 10 | < 5.0 U < 10 U 95.9% |
| UU52I 12-8901 | MS008-SS-120515 HC ID: MOTOR OIL | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 12 14 | 45 90 | < 45 U 120 99.7% |
| UU52J 12-8902 | MS009-SS-120515 HC ID: --- | 05/21/12 | 05/22/12 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 13 16 | 50 100 | < 50 U < 100 U 101% |

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

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 2 of 2
Matrix: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

Data Release Authorized: *AB*
Reported: 05/23/12

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | MDL | RL | Result |
|--------|-----------|-----------------|---------------|--------|-------|-----|----|--------|
|--------|-----------|-----------------|---------------|--------|-------|-----|----|--------|

Reported in mg/kg (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: Sediment

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MS001-SS-120515 | 92.8% | 0 |
| MS101-SS-120515 | 103% | 0 |
| MS002-SS-120515 | 101% | 0 |
| MS003-SS-120515 | 103% | 0 |
| MS004-SS-120515 | 103% | 0 |
| MS005-SS-120515 | 103% | 0 |
| MS006-SS-120515 | 101% | 0 |
| MS007-SS-120515 | 104% | 0 |
| MB-052112 | 95.9% | 0 |
| LCS-052112 | 94.2% | 0 |
| MS008-SS-120515 | 99.7% | 0 |
| MS008-SS-120515 MS | 100% | 0 |
| MS008-SS-120515 MSD | 105% | 0 |
| MS009-SS-120515 | 101% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(50-150)

(50-150)

Prep Method: SW3546
Log Number Range: 12-8893 to 12-8902

**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: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01

Data Release Authorized: *MW*
Reported: 05/22/12

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range/Surrogate | RL | Result |
|----------------------|----------------|-----------------|---------------|--------|--------------------------------|------|-------------------|
| MB-051812 12-8937 | Method Blank | 05/18/12 | 05/21/12 | 1.00 | Diesel Range | 0.10 | < 0.10 U |
| | HC ID: --- | | FID4A | 1.0 | Motor Oil Range o-Terphenyl | 0.20 | < 0.20 U 101% |
| UU62J 12-8937 | MS-SSRB-120515 | 05/18/12 | 05/21/12 | 1.00 | Diesel Range | 0.10 | < 0.10 U |
| | HC ID: --- | | FID4A | 1.0 | Motor Oil Range o-Terphenyl | 0.20 | < 0.20 U 105% |
| UU62K 12-8938 | MS-SSFB-120515 | 05/18/12 | 05/21/12 | 1.00 | Diesel Range | 0.10 | < 0.10 U |
| | HC ID: --- | | FID4A | 1.0 | Motor Oil Range o-Terphenyl | 0.20 | < 0.20 U 99.6% |

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range 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: UU62-Anchor QEA, LLC.
Project: Jeld Wen - Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|------------------|-------------|----------------|
| MB-051812 | 101% | 0 |
| LCS-051812 | 107% | 0 |
| LCSD-051812 | 108% | 0 |
| MS-SSRB-120515 | 105% | 0 |
| MS-SSFB-120515 | 99.6% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|----------------------|----------------------|------------------|
| (OTER) = o-Terphenyl | (50-150) | (50-150) |

Prep Method: SW3510C
Log Number Range: 12-8937 to 12-8938

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

Sample ID: MS008-SS-120515
MS/MSD

Lab Sample ID: UU52I
 LIMS ID: 12-8901
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 05/23/12

QC Report No: UU52-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted MS/MSD: 05/21/12
 Date Analyzed MS: 05/22/12 14:23
 MSD: 05/22/12 14:48
 Instrument/Analyst MS: FID/MH
 MSD: FID/MH

Sample Amount MS: 1.11 g-dry-wt
 MSD: 1.11 g-dry-wt
 Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL
 Dilution Factor MS: 1.0
 MSD: 1.0
 Percent Moisture: 89.0%

| Range | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------|--------|-----|----------------|-------------|------|-----------------|--------------|------|
| Diesel | < 45.0 | 984 | 1350 | 72.9% | 1010 | 1350 | 74.8% | 2.6% |

TPHD Surrogate Recovery

| | MS | MSD |
|-------------|------|------|
| o-Terphenyl | 100% | 105% |

Results reported in mg/kg
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-052112

Page 1 of 1

LAB CONTROL

Lab Sample ID: LCS-052112


QC Report No: UU52-Anchor QEA, LLC.

LIMS ID: 12-8901

Project: Jeld Wen Maulsby Marsh

Matrix: Sediment

120909-01.01

Data Release Authorized: 

Date Sampled: 05/15/12

Reported: 05/23/12

Date Received: 05/16/12

Date Extracted: 05/21/12

Sample Amount: 10.0 g

Date Analyzed: 05/22/12 08:45

Final Extract Volume: 1.0 mL

Instrument/Analyst: FID/MH

Dilution Factor: 1.0

| Range | Lab Control | Spike Added | Recovery |
|--------|-------------|-------------|----------|
| Diesel | 120 | 150 | 80.0% |

TPHD Surrogate Recovery

| | |
|-------------|-------|
| o-Terphenyl | 94.2% |
|-------------|-------|

Results reported in mg/kg

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

Sample ID: LCS-051812
 LCS/LCSD

Lab Sample ID: LCS-051812
 LIMS ID: 12-8937
 Matrix: Water
 Data Release Authorized: *AMW*
 Reported: 05/22/12

QC Report No: UU62-Anchor QEA, LLC.
 Project: Jeld Wen - Mauksby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted LCS/LCSD: 05/18/12
 Date Analyzed LCS: 05/21/12 12:08
 LCSD: 05/21/12 12:33
 Instrument/Analyst LCS: FID/MH
 LCSD: FID/MH

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 | Spike | | LCS | Spike | | LCSD | RPD |
|--------|-------|-----------|----------|-------|------------|----------|------|
| | LCS | Added-LCS | Recovery | LCS | Added-LCSD | Recovery | |
| Diesel | 2.65 | 3.00 | 88.3% | 2.68 | 3.00 | 89.3% | 1.1% |

TPHD Surrogate Recovery

| | LCS | LCSD |
|-------------|------|------|
| o-Terphenyl | 107% | 108% |

Results reported in mg/L
 RPD calculated using sample concentrations per SW846.

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Sediment
Date Received: 05/16/12

ARI Job: UU52
Project: Jeld Wen Maulsby Marsh
120909-01.01

| ARI ID | Client ID | Client Amt | Final Vol | Basis | Prep Date |
|--------------------|-----------------|------------|-----------|-------|-----------|
| 12-8893-UU52A | MS001-SS-120515 | 0.98 g | 1.00 mL | D | 05/21/12 |
| 12-8894-UU52B | MS101-SS-120515 | 0.99 g | 1.00 mL | D | 05/21/12 |
| 12-8895-UU52C | MS002-SS-120515 | 1.03 g | 1.00 mL | D | 05/21/12 |
| 12-8896-UU52D | MS003-SS-120515 | 0.94 g | 1.00 mL | D | 05/21/12 |
| 12-8897-UU52E | MS004-SS-120515 | 0.97 g | 1.00 mL | D | 05/21/12 |
| 12-8898-UU52F | MS005-SS-120515 | 0.92 g | 1.00 mL | D | 05/21/12 |
| 12-8899-UU52G | MS006-SS-120515 | 0.94 g | 1.00 mL | D | 05/21/12 |
| 12-8900-UU52H | MS007-SS-120515 | 1.63 g | 1.00 mL | D | 05/21/12 |
| 12-8901-052112MB1 | Method Blank | 10.0 g | 1.00 mL | - | 05/21/12 |
| 12-8901-052112LCS1 | Lab Control | 10.0 g | 1.00 mL | - | 05/21/12 |
| 12-8901-UU52I | MS008-SS-120515 | 1.11 g | 1.00 mL | D | 05/21/12 |
| 12-8901-UU52IMS | MS008-SS-120515 | 1.11 g | 1.00 mL | D | 05/21/12 |
| 12-8901-UU52IMSD | MS008-SS-120515 | 1.11 g | 1.00 mL | D | 05/21/12 |
| 12-8902-UU52J | MS009-SS-120515 | 1.00 g | 1.00 mL | D | 05/21/12 |

Basis: D=Dry Weight W=As Received
Diesel Extraction Report

UU52: 00253

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 05/16/12

ARI Job: UU62
Project: Jeld Wen - Maulsby Marsh
120909-01.01

| ARI ID | Client ID | Samp Amt | Final Vol | Prep Date |
|---------------------|-----------------|-------------|--------------|--------------|
| 12-8937-051812MB1 | Method Blank | 500 mL | 1.00 mL | 05/18/12 |
| 12-8937-051812LCS1 | Lab Control | 500 mL | 1.00 mL | 05/18/12 |
| 12-8937-051812LCSD1 | Lab Control Dup | 500 mL | 1.00 mL | 05/18/12 |
| 12-8937-UU62J | MS-SSRB-120515 | 500 mL | 1.00 mL | 05/18/12 |
| 12-8938-UU62K | MS-SSFB-120515 | 500 mL | 1.00 mL | 05/18/12 |

4
TPH METHOD BLANK SUMMARY

BLANK NO.

UU52MBS1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

SDG No.: UU52

Project No.: PSR 120909-01.01

Date Extracted: 05/21/12

Matrix: SOLID

Date Analyzed : 05/22/12

Instrument ID : FID4A

Time Analyzed : 0822

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UU52LCSS1 | UU52LCSS1 | 05/22/12 |
| 02 | MS001-SS-120 | UU52A | 05/22/12 |
| 03 | MS101-SS-120 | UU52B | 05/22/12 |
| 04 | MS002-SS-120 | UU52C | 05/22/12 |
| 05 | MS003-SS-120 | UU52D | 05/22/12 |
| 06 | MS004-SS-120 | UU52E | 05/22/12 |
| 07 | MS005-SS-120 | UU52F | 05/22/12 |
| 08 | MS006-SS-120 | UU52G | 05/22/12 |
| 09 | MS007-SS-120 | UU52H | 05/22/12 |
| 10 | MS008-SS-120 | UU52I | 05/22/12 |
| 11 | MS008-SS-120 | UU52IMS | 05/22/12 |
| 12 | MS008-SS-120 | UU52IMSD | 05/22/12 |
| 13 | MS009-SS-120 | UU52J | 05/22/12 |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
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| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |

4
TPH METHOD BLANK SUMMARY

BLANK NO.

UU62MBW1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

SDG No.: UU62

Project No.: 120909-01.01

Date Extracted: 05/18/12

Matrix: LIQUID

Date Analyzed : 05/21/12

Instrument ID : FID4A

Time Analyzed : 1144

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UU62LCSW1 | UU62LCSW1 | 05/21/12 |
| 02 | UU62LCSDW1 | UU62LCSDW1 | 05/21/12 |
| 03 | MS-SSRB-1205 | UU62J | 05/21/12 |
| 04 | MS-SSFB-1205 | UU62K | 05/21/12 |
| 05 | | | |

6a
DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR QEA

Instrument: FID4A.I

Project: 120909-01.01

Calibration Date: 15-MAY-2012

SDG No.: UU62

| Diesel Range | RF1 50 | RF2 100 | RF3 250 | RF4 500 | RF5 1000 | RF6 2500 | Ave RF | %RSD |
|--------------|-----------|------------|------------|------------|-------------|-------------|--------|------|
| WA Diesel | 13022 | 13848 | 14060 | 13795 | 13351 | 13694 | 13628 | 2.8 |
| AK Diesel | 15020 | 16298 | 16660 | 16557 | 16083 | 16540 | 16193 | 3.8 |
| OR Diesel | 15480 | 16499 | 16821 | 16683 | 16190 | 16621 | 16382 | 3.0 |
| Cal Diesel | 14927 | 16230 | 16597 | 16502 | 16048 | 16500 | 16134 | 3.9 |
| o-Terph | 18437 | 16300 | 16636 | 17165 | 17397 | ***** | 17187 | 4.8 |

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

Quant Ranges : WA Diesel C12-C24 (4.163-7.782)
 AK Diesel C10-C25 (3.126-8.028)
 OR Diesel C10-C28 (3.126-8.726)
 Cal Diesel C10-C24 (3.126-7.782)

Calibration Files Analysis Time

| | |
|-------------|-------------------|
| 0515a005a.d | 15-MAY-2012 11:30 |
| 0515a005b.d | 15-MAY-2012 11:53 |
| 0515a005c.d | 15-MAY-2012 12:17 |
| 0515a005d.d | 15-MAY-2012 12:41 |
| 0515a005e.d | 15-MAY-2012 13:05 |
| 0515a006.d | 15-MAY-2012 13:29 |

6a
NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR QEA

Instrument: FID4A.I

Project: 120909-01.01

Calibration Date: 14-MAY-2012

SDG No.: UU62

| Product Range | RF1 100 | RF2 250 | RF3 500 | RF4 1000 | RF5 2500 | RF6 5000 | Ave RF | %RSD |
|---------------------|------------|------------|------------|-------------|-------------|-------------|--------|------|
| WA M.Oil C24-C38 | 9819 | 9803 | 9816 | 9634 | 9822 | 9604 | 9750 | 1.0 |
| Triac Surr | 15850 | 17196 | 17920 | 17089 | 17653 | ***** | 17142 | 4.65 |

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

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0514a020.d | 14-MAY-2012 13:51 |
| 0514a021.d | 14-MAY-2012 14:15 |
| 0514a022.d | 14-MAY-2012 14:39 |
| 0514a023.d | 14-MAY-2012 15:03 |
| 0514a024.d | 14-MAY-2012 15:27 |
| 0514a025.d | 14-MAY-2012 15:51 |

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120521
ICal Date: 15-MAY-2012 Project:
CCal Date: 21-MAY-2012 SDG No.: 20120521
Analysis Time: 10:25 Lab ID: DIESEL #1
Instrument: FID4A.I Lab File Name: 0521a004.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|-----------------|---------|---------|--------|-----|
| WADies(C12-C24) | 3581267 | 262.8 | 250 | 5.1 |
| AK102 (C10-C25) | 4244941 | 262.1 | 250 | 4.9 |
| Terphenyl | 835976 | 48.6 | 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

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120521
 ICal Date: 14-MAY-2012 Project:
 CCal Date: 21-MAY-2012 SDG No.: 20120521
 Analysis Time: 10:49 Lab ID: MOIL #1
 Instrument: FID4A.I Lab File Name: 0521a005.d

| M.oil Range | Area* | CalcAmnt | NomAmnt | % D |
|--------------------|---------|----------|---------|-------|
| WAMoil (C24-C38) | 4834117 | 495.8 | 500 | -0.8 |
| AK103 (C25-C36) | 4334601 | 558.6 | 500 | 11.7 |
| OR. MOIL (C28-C40) | 3386343 | 448.4 | 500 | -10.3 |
| CRUDE (Tol-C40) | 5798539 | 767.7 | 500 | 53.5 |
| n-Triacontane | 764223 | 44.6 | 45 | -0.9 |

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

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36
 OR M.Oil C28-C40

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120521
ICal Date: 15-MAY-2012 Project:
CCal Date: 21-MAY-2012 SDG No.: 20120521
Analysis Time: 16:13 Lab ID: DIESEL #2
Instrument: FID4A.I Lab File Name: 0521a017.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|-----|
| WADies (C12-C24) | 3640149 | 267.1 | 250 | 6.8 |
| AK102 (C10-C25) | 4335684 | 267.8 | 250 | 7.1 |
| Terphenyl | 821721 | 47.8 | 45 | 6.2 |

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

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

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20120521

ICal Date: 14-MAY-2012

Project:

CCal Date: 21-MAY-2012

SDG No.: 20120521

Analysis Time: 16:37

Lab ID: MOIL #2

Instrument: FID4A.I

Lab File Name: 0521a018.d

| M.oil Range | Area* | CalcAmnt | NomAmnt | % D |
|--------------------|---------|----------|---------|-------|
| WAMoil (C24-C38) | 4694165 | 481.5 | 500 | -3.7 |
| AK103 (C25-C36) | 4238035 | 546.2 | 500 | 9.2 |
| OR. MOIL (C28-C40) | 3216871 | 425.9 | 500 | -14.8 |
| CRUDE (Tol-C40) | 5558563 | 736.0 | 500 | 47.2 |
| n-Triacontane | 744597 | 43.4 | 45 | -3.5 |

* 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
 OR M.Oil C28-C40

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120522
ICal Date: 15-MAY-2012 Project:
CCal Date: 22-MAY-2012 SDG No.: 20120522
Analysis Time: 07:13 Lab ID: DIESEL #1
Instrument: FID4A.I Lab File Name: 0522a004.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|-----|
| WADies (C12-C24) | 3701588 | 271.6 | 250 | 8.6 |
| AK102 (C10-C25) | 4416510 | 272.7 | 250 | 9.1 |
| Terphenyl | 830385 | 48.3 | 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

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120522
 ICal Date: 14-MAY-2012 Project:
 CCal Date: 22-MAY-2012 SDG No.: 20120522
 Analysis Time: 07:37 Lab ID: MOIL #1
 Instrument: FID4A.I Lab File Name: 0522a005.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|--------------------|---------|---------|--------|-------|
| WAMoil (C24-C38) | 4707921 | 482.9 | 500 | -3.4 |
| AK103 (C25-C36) | 4237450 | 546.1 | 500 | 9.2 |
| OR. MOIL (C28-C40) | 3228096 | 427.4 | 500 | -14.5 |
| CRUDE (Tol-C40) | 5522743 | 731.2 | 500 | 46.2 |
| n-Triacontane | 756798 | 44.1 | 45 | -1.9 |

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

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36
 OR M.Oil C28-C40

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120522
 ICal Date: 15-MAY-2012 Project:
 CCal Date: 22-MAY-2012 SDG No.: 20120522
 Analysis Time: 11:33 Lab ID: DIESEL #2
 Instrument: FID4A.I Lab File Name: 0522a014.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|-----|
| WADies (C12-C24) | 3484324 | 255.7 | 250 | 2.3 |
| AK102 (C10-C25) | 4164714 | 257.2 | 250 | 2.9 |
| Terphenyl | 773980 | 45.0 | 45 | 0.1 |

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

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

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20120522

ICal Date: 14-MAY-2012

Project:

CCal Date: 22-MAY-2012

SDG No.: 20120522

Analysis Time: 11:57

Lab ID: MOIL #2

Instrument: FID4A.I

Lab File Name: 0522a015.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|--------------------|---------|---------|--------|-------|
| WAMoil (C24-C38) | 4703644 | 482.4 | 500 | -3.5 |
| AK103 (C25-C36) | 4221468 | 544.1 | 500 | 8.8 |
| OR. MOIL (C28-C40) | 3160071 | 418.4 | 500 | -16.3 |
| CRUDE (Tol-C40) | 5544308 | 734.1 | 500 | 46.8 |
| n-Triacontane | 774056 | 45.2 | 45 | 0.3 |

* 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
 OR M.Oil C28-C40

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: 20120522
 ICal Date: 15-MAY-2012 Project:
 CCal Date: 22-MAY-2012 SDG No.: 20120522
 Analysis Time: 15:37 Lab ID: DIESEL #3
 Instrument: FID4A.I Lab File Name: 0522a024.d

| Diesel Range | Area* | CalcAmt | NomAmt | % D |
|------------------|---------|---------|--------|-----|
| WADies (C12-C24) | 3577293 | 262.5 | 250 | 5.0 |
| AK102 (C10-C25) | 4275348 | 264.0 | 250 | 5.6 |
| Terphenyl | 796052 | 46.3 | 45 | 2.9 |

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

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

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20120522

ICal Date: 14-MAY-2012

Project:

CCal Date: 22-MAY-2012

SDG No.: 20120522

Analysis Time: 16:01

Lab ID: MOIL #3

Instrument: FID4A.I

Lab File Name: 0522a025.d

| M.oil Range | Area* | CalcAmt | NomAmt | % D |
|--------------------|---------|---------|--------|-------|
| WAMoil (C24-C38) | 4642811 | 476.2 | 500 | -4.8 |
| AK103 (C25-C36) | 4213139 | 543.0 | 500 | 8.6 |
| OR. MOIL (C28-C40) | 3138606 | 415.6 | 500 | -16.9 |
| CRUDE (Tol-C40) | 5488979 | 726.8 | 500 | 45.4 |
| n-Triacontane | 758370 | 44.2 | 45 | -1.7 |

* 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
 OR M.Oil C28-C40

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA

SDG No.: UU52

Project: 120909-01.01

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 05/14/12

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|------------------|------------------|------------------|---------------|--------------|--|
| TERPH: 6.31 | | | TRAC: 9.20 | | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TERPH RT # | TRAC RT # | |
| ===== | ===== | ===== | ===== | ===== | ===== | |
| 01 | MOIL 100 | 05/14/12 | 1351 | 6.32 | 9.19 | |
| 02 | MOIL 250 | 05/14/12 | 1415 | 6.32 | 9.19 | |
| 03 | MOIL 500 | 05/14/12 | 1439 | 6.33 | 9.21 | |
| 04 | MOIL 1000 | 05/14/12 | 1503 | 6.32 | 9.24 | |
| 05 | MOIL 2500 | 05/14/12 | 1527 | 6.31 | 9.29* | |
| 06 | MOIL 5000 | 05/14/12 | 1551 | 6.31 | 9.37* | |

TERPH = o-terph
TRAC = 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: ANCHOR QEA, LLC

SDG No.: UU52

Project: PSR 120909-01.01

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 05/22/12

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|--------------|-------------|----------|-------|-------------|-------|
| | | TERPH: 6.31 | | | TRIAC: 9.19 | |
| CLIENT | LAB | DATE | TIME | TERPH | TRIAC | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT # | RT # | # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | ZZZZZ | ZZZZZ | 05/22/12 | 0603 | 6.31 | 9.20 |
| 02 | RT | RT | 05/22/12 | 0626 | 6.31 | 9.19 |
| 03 | IB | IB | 05/22/12 | 0650 | 6.31 | 9.18 |
| 04 | | DIESEL #1 | 05/22/12 | 0713 | 6.31 | 9.19 |
| 05 | | MOIL #1 | 05/22/12 | 0737 | 6.32 | 9.19 |
| 06 | UU52MBS1 | UU52MBS1 | 05/22/12 | 0822 | 6.31 | 9.19 |
| 07 | UU52LCSS1 | UU52LCSS1 | 05/22/12 | 0845 | 6.31 | 9.18 |
| 08 | MS001-SS-120 | UU52A | 05/22/12 | 0909 | 6.31 | 9.18 |
| 09 | MS101-SS-120 | UU52B | 05/22/12 | 0933 | 6.31 | 9.18 |
| 10 | MS002-SS-120 | UU52C | 05/22/12 | 0957 | 6.31 | 9.19 |
| 11 | MS003-SS-120 | UU52D | 05/22/12 | 1021 | 6.31 | 9.18 |
| 12 | ZZZZZ | ZZZZZ | 05/22/12 | 1045 | 6.32 | 9.17 |
| 13 | ZZZZZ | ZZZZZ | 05/22/12 | 1109 | 6.31 | 9.19 |
| 14 | | DIESEL #2 | 05/22/12 | 1133 | 6.31 | 9.18 |
| 15 | | MOIL #2 | 05/22/12 | 1157 | 6.32 | 9.19 |
| 16 | MS004-SS-120 | UU52E | 05/22/12 | 1221 | 6.31 | 9.19 |
| 17 | MS005-SS-120 | UU52F | 05/22/12 | 1245 | 6.31 | 9.18 |
| 18 | MS006-SS-120 | UU52G | 05/22/12 | 1310 | 6.31 | 9.19 |
| 19 | MS007-SS-120 | UU52H | 05/22/12 | 1334 | 6.31 | 9.19 |
| 20 | MS008-SS-120 | UU52I | 05/22/12 | 1359 | 6.31 | 9.19 |
| 21 | MS008-SS-120 | UU52IMS | 05/22/12 | 1423 | 6.31 | 9.19 |
| 22 | MS008-SS-120 | UU52IMSD | 05/22/12 | 1448 | 6.32 | 9.19 |
| 23 | MS009-SS-120 | UU52J | 05/22/12 | 1513 | 6.31 | 9.18 |
| 24 | | DIESEL #3 | 05/22/12 | 1537 | 6.31 | 9.20 |
| 25 | | MOIL #3 | 05/22/12 | 1601 | 6.32 | 9.19 |

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR QEA, LLC

SDG No.: UU62

Project: 120909-01.01

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 05/21/12

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

| SURROGATE RT FROM DAILY STANDARD | | | | | | |
|----------------------------------|--------------|----------|-------------|-------|--------------|-------|
| | | | TERPH: 6.31 | | TRIAIC: 9.19 | |
| CLIENT | LAB | DATE | TIME | TERPH | TRIAIC | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT # | RT # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | ZZZZZ | 05/21/12 | 0913 | 6.32 | 9.20 | |
| 02 | RT | 05/21/12 | 0936 | 6.31 | 9.19 | |
| 03 | IB | 05/21/12 | 1001 | 6.31 | 9.19 | |
| 04 | DIESEL #1 | 05/21/12 | 1025 | 6.31 | 9.19 | |
| 05 | MOIL #1 | 05/21/12 | 1049 | 6.32 | 9.20 | |
| 06 | UU62MBW1 | 05/21/12 | 1144 | 6.31 | 9.20 | |
| 07 | UU62LCSW1 | 05/21/12 | 1208 | 6.32 | 9.19 | |
| 08 | UU62LCSDW1 | 05/21/12 | 1233 | 6.32 | 9.19 | |
| 09 | ZZZZZ | 05/21/12 | 1257 | 6.31 | 9.19 | |
| 10 | MS-SSRB-1205 | 05/21/12 | 1322 | 6.31 | 9.19 | |
| 11 | MS-SSFB-1205 | 05/21/12 | 1346 | 6.31 | 9.19 | |
| 12 | ZZZZZ | 05/21/12 | 1411 | 6.32 | 9.20 | |
| 13 | ZZZZZ | 05/21/12 | 1435 | 6.31 | 9.19 | |
| 14 | ZZZZZ | 05/21/12 | 1500 | 6.31 | 9.19 | |
| 15 | ZZZZZ | 05/21/12 | 1524 | 6.31 | 9.19 | |
| 16 | ZZZZZ | 05/21/12 | 1549 | 6.31 | 9.19 | |
| 17 | DIESEL #2 | 05/21/12 | 1613 | 6.31 | 9.19 | |
| 18 | MOIL #2 | 05/21/12 | 1637 | 6.33 | 9.19 | |

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

* Values outside of QC limits.

**Metals Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

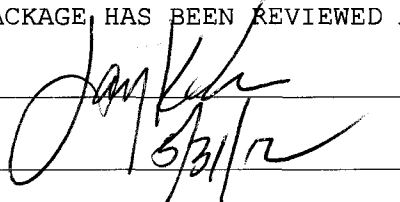
SDG: UU52

| CLIENT ID | ARI ID | ARI LIMS ID | REPREP |
|------------------|------------|-------------|--------|
| MS001-SS-120515 | UU52A | 12-8893 | |
| MS101-SS-120515 | UU52B | 12-8894 | |
| MS002-SS-120515 | UU52C | 12-8895 | |
| MS002-SS-120515D | UU52CDUP | 12-8895 | |
| MS002-SS-120515S | UU52CSPK | 12-8895 | |
| MS003-SS-120515 | UU52D | 12-8896 | |
| PBS | UU52MB1 | 12-8896 | |
| LCSS | UU52MB1SPK | 12-8896 | |
| MS004-SS-120515 | UU52E | 12-8897 | |
| MS005-SS-120515 | UU52F | 12-8898 | |
| MS006-SS-120515 | UU52G | 12-8899 | |
| MS007-SS-120515 | UU52H | 12-8900 | |
| MS008-SS-120515 | UU52I | 12-8901 | |
| MS009-SS-120515 | UU52J | 12-8902 | |

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature:  Name: Jay Kuhn
Date: 5/31/12 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS001-SS-120515

SAMPLE

Lab Sample ID: UU52A

LIMS ID: 12-8893

Matrix: Sediment

Data Release Authorized

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 10.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------------|-----------------|-------|-----|------------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.12 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.82 | 2 | 33 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.11 | 0.9 | 3.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.6 | 5 | 37 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.48 | 2 | 129 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 170 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.011 | 0.2 | 0.4 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.9 | 10 | 50 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.076 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.2 | 10 | 400 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS101-SS-120515
SAMPLE

Lab Sample ID: UU52B

LIMS ID: 12-8894

Matrix: Sediment

Data Release Authorized

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 10.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|--------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.12 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.81 | 2 | 33 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.11 | 0.9 | 3.4 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.5 | 5 | 38 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.47 | 2 | 125 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 170 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0093 | 0.2 | 0.4 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.8 | 9 | 42 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.074 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.1 | 9 | 374 | |

Reported in mg/kg-dry (ppm).


U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: MS002-SS-120515
SAMPLE

Lab Sample ID: UU52C
LIMS ID: 12-8895
Matrix: Sediment
Data Release Authorized: 
Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Percent Total Solids: 10.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------------|-----------------|--------|-----|------------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.12 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.81 | 2 | 27 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.11 | 0.9 | 2.9 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.4 | 5 | 41 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.45 | 2 | 139 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 150 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0092 | 0.2 | 0.3 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.7 | 9 | 46 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.075 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.1 | 9 | 330 | |

Reported in mg/kg-dry (ppm).
U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS003-SS-120515
SAMPLE

Lab Sample ID: UU52D
LIMS ID: 12-8896
Matrix: Sediment
Data Release Authorized
Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Percent Total Solids: 10.0%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------------|-----------------|-------|-----|------------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.12 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.81 | 2 | 19 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.11 | 0.9 | 2.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.6 | 5 | 32 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.49 | 2 | 78 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.3 | 20 | 100 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.010 | 0.2 | 0.3 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.9 | 10 | 30 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.075 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.2 | 10 | 210 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS004-SS-120515
SAMPLE

Lab Sample ID: UU52E

LIMS ID: 12-8897

Matrix: Sediment

Data Release Authorized

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 10.0%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|--------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.13 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.84 | 2 | 24 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.12 | 1 | 3 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.6 | 5 | 34 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.49 | 2 | 99 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.3 | 20 | 110 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0097 | 0.2 | 0.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.9 | 10 | 40 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.077 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.2 | 10 | 260 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS005-SS-120515
SAMPLE

Lab Sample ID: UU52F

LIMS ID: 12-8898

Matrix: Sediment

Data Release Authorized:

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 7.8%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|-------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.15 | 2 | 3 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 1.0 | 2 | 55 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.14 | 1 | 3 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 3.3 | 6 | 25 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.61 | 2 | 251 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.6 | 20 | 1,180 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.015 | 0.3 | 0.4 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 3.6 | 10 | 40 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.095 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.5 | 10 | 500 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS006-SS-120515
SAMPLE

Lab Sample ID: UU52G

LIMS ID: 12-8899

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 9.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|-------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.13 | 2 | 5 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.86 | 2 | 80 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.12 | 1 | 3 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.6 | 5 | 17 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.47 | 2 | 91 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 360 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.012 | 0.2 | 0.7 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.8 | 9 | 33 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.079 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.1 | 9 | 217 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MS007-SS-120515
SAMPLE

Lab Sample ID: UU52H

LIMS ID: 12-8900

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 16.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|--------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.077 | 1 | 1 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.51 | 1 | 28 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.071 | 0.6 | 3.7 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 1.5 | 3 | 40 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.28 | 1 | 111 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 0.74 | 10 | 350 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0062 | 0.1 | 0.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 1.7 | 6 | 44 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.047 | 1 | 1 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 0.68 | 6 | 594 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MS008-SS-120515
SAMPLE

Lab Sample ID: UU52I

LIMS ID: 12-8901

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 10.8%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|-------|-----|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.11 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.75 | 2 | 27 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.10 | 0.9 | 3.0 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.4 | 4 | 37 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.44 | 2 | 94 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 160 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.010 | 0.2 | 0.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.7 | 9 | 37 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.069 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.1 | 9 | 251 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: MS009-SS-120515
SAMPLE

Lab Sample ID: UU52J

LIMS ID: 12-8902

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Percent Total Solids: 10.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------------|-----------------|--------|-----|------------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.12 | 2 | 2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.83 | 2 | 8 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.11 | 1 | 2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 2.4 | 4 | 43 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.45 | 2 | 66 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.2 | 20 | 60 | |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0088 | 0.2 | 0.2 | |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 2.7 | 9 | 38 | |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.076 | 2 | 2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.1 | 9 | 162 | |

Reported in mg/kg-dry (ppm).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS002-SS-120515
MATRIX SPIKE

Lab Sample ID: UU52C

LIMS ID: 12-8895

Matrix: Sediment

Data Release Authorized:

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|----------|-----------------|--------|-------|-------------|------------|---|
| Antimony | 200.8 | 2 U | 23 | 234 | 9.8% | N |
| Arsenic | 200.8 | 27 | 261 | 234 | 100% | |
| Cadmium | 200.8 | 2.9 | 224 | 234 | 94.5% | |
| Chromium | 6010C | 41 | 473 | 448 | 96.4% | |
| Copper | 6010C | 139 | 588 | 448 | 100% | |
| Lead | 6010C | 150 | 1,930 | 1,790 | 99.4% | |
| Mercury | 7471A | 0.3 | 2.3 | 1.77 | 113% | |
| Nickel | 6010C | 46 | 477 | 448 | 96.2% | |
| Silver | 200.8 | 2 U | 222 | 234 | 94.9% | |
| Zinc | 6010C | 330 | 751 | 448 | 94.0% | |

Reported in mg/kg-dry

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

TOTAL METALS


Page 1 of 1

Sample ID: MS002-SS-120515
DUPLICATE

Lab Sample ID: UU52C

LIMS ID: 12-8895

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|----------|-----------------|--------|-----------|------|---------------|---|
| Antimony | 200.8 | 2 U | 2 U | 0.0% | +/- 2 | L |
| Arsenic | 200.8 | 27 | 27 | 0.0% | +/- 20% | |
| Cadmium | 200.8 | 2.9 | 3.0 | 3.4% | +/- 0.9 | L |
| Chromium | 6010C | 41 | 40 | 2.5% | +/- 20% | |
| Copper | 6010C | 139 | 138 | 0.7% | +/- 20% | |
| Lead | 6010C | 150 | 150 | 0.0% | +/- 20% | |
| Mercury | 7471A | 0.3 | 0.3 | 0.0% | +/- 0.2 | L |
| Nickel | 6010C | 46 | 46 | 0.0% | +/- 20% | |
| Silver | 200.8 | 2 U | 2 U | 0.0% | +/- 2 | L |
| Zinc | 6010C | 330 | 334 | 1.2% | +/- 20% | |

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

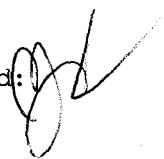
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: UU52LCS

LIMS ID: 12-8896

Matrix: Sediment

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|----------|-----------------|-------------|-------------|------------|---|
| Antimony | 200.8 | 24.8 | 25.0 | 99.2% | |
| Arsenic | 200.8 | 25.5 | 25.0 | 102% | |
| Cadmium | 200.8 | 24.1 | 25.0 | 96.4% | |
| Chromium | 6010C | 50.5 | 50.0 | 101% | |
| Copper | 6010C | 51.7 | 50.0 | 103% | |
| Lead | 6010C | 208 | 200 | 104% | |
| Mercury | 7471A | 0.53 | 0.50 | 106% | |
| Nickel | 6010C | 49 | 50 | 98.0% | |
| Silver | 200.8 | 25.0 | 25.0 | 100% | |
| Zinc | 6010C | 50 | 50 | 100% | |

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: UU52MB
LIMS ID: 12-8896
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/12

QC Report No: UU52-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|--------|------|--------|---|
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.013 | 0.2 | 0.2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.087 | 0.2 | 0.2 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.012 | 0.1 | 0.1 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 0.27 | 0.5 | 0.5 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.050 | 0.2 | 0.2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 0.13 | 2 | 2 | U |
| CLP | 05/18/12 | 7471A | 05/21/12 | 7439-97-6 | Mercury | 0.0013 | 0.02 | 0.02 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 0.30 | 1 | 1 | U |
| 3050B | 05/18/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.0080 | 0.2 | 0.2 | U |
| 3050B | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 0.12 | 1 | 1 | U |

Reported in mg/kg (ppm).
U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

UNITS: ug/L

SDG: UU52

| ANALYTE | EL | M | RUN | ICVTV | ICV | %R | CCVTV | CCV1 | %R | CCV2 | %R | CCV3 | %R | CCV4 | %R | CCV5 | %R |
|----------|----|-----|----------|--------|---------|-------|--------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Antimony | SB | PMS | MS052381 | 50.0 | 48.94 | 97.9 | 50.0 | 49.55 | 99.1 | 49.92 | 99.8 | 50.56 | 101.1 | 50.08 | 100.2 | 50.66 | 101.3 |
| Arsenic | AS | PMS | MS052381 | 50.0 | 49.58 | 99.2 | 50.0 | 50.39 | 100.8 | 50.54 | 101.1 | 50.38 | 100.8 | 50.74 | 101.5 | 50.17 | 100.3 |
| Cadmium | CD | PMS | MS052381 | 50.0 | 49.26 | 98.5 | 50.0 | 49.93 | 99.9 | 51.05 | 102.1 | 50.01 | 100.0 | 49.82 | 99.6 | 49.69 | 99.4 |
| Chromium | CR | ICP | IP052921 | 1000.0 | 952.21 | 95.2 | 1000.0 | 955.71 | 95.6 | 969.44 | 96.9 | 958.42 | 95.8 | 967.84 | 96.8 | 965.99 | 96.6 |
| Copper | CU | ICP | IP052921 | 1000.0 | 1018.90 | 101.9 | 1000.0 | 1022.83 | 102.3 | 1026.48 | 102.6 | 1028.22 | 102.8 | 1032.55 | 103.3 | 1031.20 | 103.1 |
| Lead | PB | ICP | IP052921 | 2000.0 | 1985.98 | 99.3 | 2000.0 | 1992.73 | 99.6 | 2005.36 | 100.3 | 1989.83 | 99.5 | 1965.06 | 98.3 | 2002.22 | 100.1 |
| Mercury | HG | CVA | HG052102 | 8.0 | 8.26 | 103.3 | 4.0 | 4.18 | 104.5 | 4.21 | 105.3 | 4.19 | 104.8 | | | | |
| Nickel | NI | ICP | IP052921 | 1000.0 | 959.39 | 95.9 | 1000.0 | 969.42 | 96.9 | 987.90 | 98.8 | 978.45 | 97.8 | 993.21 | 99.3 | 983.21 | 98.3 |
| Silver | AG | PMS | MS052381 | 50.0 | 49.85 | 99.7 | 50.0 | 50.32 | 100.6 | 50.65 | 101.3 | 49.79 | 99.6 | 50.39 | 100.8 | 50.33 | 100.7 |
| Zinc | ZN | ICP | IP052921 | 1000.0 | 1002.35 | 100.2 | 1000.0 | 1011.70 | 101.2 | 1032.32 | 103.2 | 1020.62 | 102.1 | 1036.95 | 103.7 | 1028.11 | 102.8 |

UU52:00288

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

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

SDG: UU52



UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV6 %R | CCV7 %R | CCV8 %R | CCV9 %R | CCV10 %R | CCV11 %R |
|----------|----|-----|----------|--------|-------------|-------------|-------------|---------|----------|----------|
| Antimony | SB | PMS | MS052381 | 50.0 | 49.61 99.2 | 49.48 99.0 | 49.82 99.6 | | | |
| Arsenic | AS | PMS | MS052381 | 50.0 | 50.22 100.4 | 50.11 100.2 | 50.86 101.7 | | | |
| Cadmium | CD | PMS | MS052381 | 50.0 | 48.99 98.0 | 49.97 99.9 | 50.16 100.3 | | | |
| Chromium | CR | ICP | IP052921 | 1000.0 | | | | | | |
| Copper | CU | ICP | IP052921 | 1000.0 | | | | | | |
| Lead | PB | ICP | IP052921 | 2000.0 | | | | | | |
| Mercury | HG | CVA | HG052102 | 4.0 | | | | | | |
| Nickel | NI | ICP | IP052921 | 1000.0 | | | | | | |
| Silver | AG | PMS | MS052381 | 50.0 | 49.58 99.2 | 50.24 100.5 | 50.57 101.1 | | | |
| Zinc | ZN | ICP | IP052921 | 1000.0 | | | | | | |

UU52: 00289

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

CRDL Standard

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

SDG: UU52



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 |
|----------|----|-----|----------|-------|----|-------|-------|------|----|------|----|------|----|------|----|------|----|
| Antimony | SB | PMS | MS052381 | 0.2 | | 0.20 | 100.0 | | | | | | | | | | |
| Arsenic | AS | PMS | MS052381 | 0.2 | | 0.28 | 140.0 | | | | | | | | | | |
| Cadmium | CD | PMS | MS052381 | 0.1 | | 0.10 | 100.0 | | | | | | | | | | |
| Chromium | CR | ICP | IP052921 | 5.0 | | 4.72 | 94.4 | | | | | | | | | | |
| Copper | CU | ICP | IP052921 | 2.0 | | 2.11 | 105.5 | | | | | | | | | | |
| Lead | PB | ICP | IP052921 | 20.0 | | 20.11 | 100.6 | | | | | | | | | | |
| Mercury | HG | CVA | HG052102 | 0.1 | | 0.11 | 110.0 | | | | | | | | | | |
| Nickel | NI | ICP | IP052921 | 10.0 | | 10.85 | 108.5 | | | | | | | | | | |
| Silver | AG | PMS | MS052381 | 0.2 | | 0.19 | 95.0 | | | | | | | | | | |
| Zinc | ZN | ICP | IP052921 | 10.0 | | 9.55 | 95.5 | | | | | | | | | | |

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

UU52:00290

Calibration Blanks



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

SDG: UU52

UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | ICB | C | CCB1 | C | CCB2 | C | CCB3 | C | CCB4 | C | CCB5 | C |
|----------|----|------|----------|------|------|------|---|------|---|------|---|------|---|------|---|------|---|
| Antimony | SB | PMS | MS052381 | 60.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Arsenic | AS | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Cadmium | CD | PMS | MS052381 | 5.0 | 0.1 | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U |
| Chromium | CR | ICP | IP052921 | 10.0 | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Copper | CU | ICP | IP052921 | 25.0 | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Lead | PB | ICP | IP052921 | 3.0 | 20.0 | 20.0 | U | 20.0 | U | 20.0 | U | 20.0 | U | 20.0 | U | 20.0 | U |
| Mercury | HG | CVA | HG052102 | 0.2 | 0.1 | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | | | | |
| Nickel | NI | ICP | IP052921 | 40.0 | 10.0 | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U |
| Silver | AG | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Zinc | ZN | ICP | IP052921 | 20.0 | 10.0 | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U |

UU52:00291

Calibration Blanks

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

SDG: UU52



UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB6 | C | CCB7 | C | CCB8 | C | CCB9 | C | CCB10 | C | CCB11 | C |
|----------|----|------|----------|------|------|------|---|------|---|------|---|------|---|-------|---|-------|---|
| Antimony | SB | PMS | MS052381 | 60.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | | | | | | |
| Arsenic | AS | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | | | | | | |
| Cadmium | CD | PMS | MS052381 | 5.0 | 0.1 | 0.1 | U | 0.1 | U | 0.1 | U | | | | | | |
| Chromium | CR | ICP | IP052921 | 10.0 | 5.0 | | | | | | | | | | | | |
| Copper | CU | ICP | IP052921 | 25.0 | 2.0 | | | | | | | | | | | | |
| Lead | PB | ICP | IP052921 | 3.0 | 20.0 | | | | | | | | | | | | |
| Mercury | HG | CVA | HG052102 | 0.2 | 0.1 | | | | | | | | | | | | |
| Nickel | NI | ICP | IP052921 | 40.0 | 10.0 | | | | | | | | | | | | |
| Silver | AG | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | | | | | | |
| Zinc | ZN | ICP | IP052921 | 20.0 | 10.0 | | | | | | | | | | | | |

UU52:00292

ICP Interference Check Sample

ANALYTICAL
RESOURCES
INCORPORATED 

CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: Jeld Wen Maulsby Mar

RUNID: IP052921

SDG: UU52

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|----------|----------|-------|-------|--------|----|-------|--------|----|
| Aluminum | 200000 | 200000 | 211269.8 | 206979.3 | 103.5 | | | | | | |
| Antimony | | 1000 | -32.1 | 1032.0 | 103.2 | | | | | | |
| Arsenic | | 1000 | -2.8 | 1046.1 | 104.6 | | | | | | |
| Barium | | 1000 | 1.8 | 956.5 | 95.7 | | | | | | |
| Beryllium | | 1000 | 0.0 | 1010.4 | 101.0 | | | | | | |
| Boron | | | -13.6 | -19.0 | | | | | | | |
| Cadmium | | 1000 | 1.0 | 1003.4 | 100.3 | | | | | | |
| Calcium | 100000 | 100000 | 101025.3 | 102192.3 | 102.2 | | | | | | |
| Chromium | | 1000 | 2.1 | 963.1 | 96.3 | | | | | | |
| Cobalt | | 1000 | 0.9 | 925.6 | 92.6 | | | | | | |
| Copper | | 1000 | 2.6 | 1039.9 | 104.0 | | | | | | |
| Iron | 200000 | 200000 | 205569.9 | 203892.9 | 101.9 | | | | | | |
| Lead | | 1000 | 4.8 | 965.0 | 96.5 | | | | | | |
| Magnesium | 100000 | 100000 | 103325.9 | 104634.5 | 104.6 | | | | | | |
| Manganese | | 1000 | 0.1 | 961.7 | 96.2 | | | | | | |
| Molybdenum | | | 7.3 | 8.2 | | | | | | | |
| Nickel | | 1000 | 0.8 | 935.3 | 93.5 | | | | | | |
| Potassium | | | 0.9 | 7.4 | | | | | | | |
| Selenium | | 1000 | -4.0 | 1009.8 | 101.0 | | | | | | |
| Silicon | | | -11.9 | -9.6 | | | | | | | |
| Silver | | 1000 | 2.1 | 1035.9 | 103.6 | | | | | | |
| Sodium | | | 50.3 | 59.4 | | | | | | | |
| Strontium | | | 10.3 | 11.2 | | | | | | | |
| Thallium | | 1000 | -8.8 | 941.9 | 94.2 | | | | | | |
| Tin | | | -27.3 | -29.3 | | | | | | | |
| Titanium | | | 0.7 | -0.1 | | | | | | | |
| Vanadium | | 1000 | -5.6 | 1005.7 | 100.6 | | | | | | |
| Zinc | | 1000 | -1.8 | 925.4 | 92.5 | | | | | | |

UU52:00293

ICP Interference Check Sample

ANALYTICAL
RESOURCES
INCORPORATED 

CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: Jeld Wen Maulsby Mar

RUNID: MS052381

SDG: UU52

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|-------|--------|-------|-------|--------|----|-------|--------|----|
| Antimony | | | 0.0 | 0.1 | | | | | | | |
| Cadmium | | 20 | 0.0 | 19.4 | 97.0 | | | | | | |
| Chromium | | 20 | 0.7 | 20.1 | 100.5 | | | | | | |
| Cobalt | | 20 | 0.0 | 19.3 | 96.5 | | | | | | |
| Copper | | 20 | 0.5 | 20.0 | 100.0 | | | | | | |
| Lead | | | 0.1 | 0.1 | | | | | | | |
| Manganese | | 20 | 0.0 | 19.6 | 98.0 | | | | | | |
| Molybdenum | 400 | 400 | 401.6 | 403.3 | 100.8 | | | | | | |
| Nickel | | 20 | 0.6 | 19.2 | 96.0 | | | | | | |
| Selenium | | | -0.1 | -0.1 | | | | | | | |
| Silver | | 20 | 0.0 | 18.9 | 94.5 | | | | | | |
| Thorium | | | 0.1 | 0.1 | | | | | | | |
| Vanadium | | | 0.0 | -0.4 | | | | | | | |
| Zinc | | 20 | 1.1 | 20.1 | 100.5 | | | | | | |

UU52: 00294

Post Digest Spike Sample Recovery

ANALYTICAL
RESOURCES 
INCORPORATED

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

ANALYSIS METHOD: PMS

SDG: UU52

UNITS: ug/L

| ANALYTE | CLIENT ID | ARI ID | RUNID | SPIKED SAMPLE RESULT C | SAMPLE RESULT C | SPIKE ADDED | MATRIX | %R |
|----------|------------------|-----------|----------|------------------------------|--------------------|----------------|----------|-------|
| Antimony | MS002-SS-120515A | UU52CPOST | MS052381 | 503.10 B | 4.00U | 500 | Sediment | 100.6 |

**IDLs and ICP
Linear Ranges**



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

SDG: UU52

UNITS: ug/L

| ANALYTE | EL | METH | INSTRUMENT | WAVELENGTH (nm) | GFA | | RL | RL DATE | ICP LINEAR RANGE (ug/L) | ICP LR DATE |
|----------|----|------|-----------------|--------------------|-----------------|-------------|------|------------|----------------------------|----------------|
| | | | | | BACK- GROUND | CLP CRDL | | | | |
| Antimony | SB | PMS | PE ELAN 6000 MS | 0.00 | | 60 | 0.2 | 4/1/2011 | | |
| Arsenic | AS | PMS | PE ELAN 6000 MS | 0.00 | | 10 | 0.2 | 4/1/2011 | | |
| Cadmium | CD | PMS | PE ELAN 6000 MS | 0.00 | | 5 | 0.1 | 4/1/2011 | | |
| Chromium | CR | ICP | OPTIMA ICP 1 | 267.72 | | 10 | 5.0 | 4/1/2011 | 100000.0 | 7/12/2010 |
| Copper | CU | ICP | OPTIMA ICP 1 | 324.75 | | 25 | 2.0 | 4/1/2011 | 40000.0 | 7/12/2010 |
| Lead | PB | ICP | OPTIMA ICP 1 | 220.35 | | 3 | 20.0 | 4/1/2011 | 300000.0 | 7/12/2010 |
| Mercury | HG | CVA | CETAC MERCURY | 253.70 | | 0.2 | 0.1 | 4/1/2011 | | |
| Nickel | NI | ICP | OPTIMA ICP 1 | 231.60 | | 40 | 10.0 | 4/1/2011 | 100000.0 | 7/12/2010 |
| Silver | AG | PMS | PE ELAN 6000 MS | 0.00 | | 10 | 0.2 | 4/1/2011 | | |
| Zinc | ZN | ICP | OPTIMA ICP 1 | 206.20 | | 20 | 10.0 | 4/1/2011 | 100000.0 | 7/12/2010 |

ICP Interelement Correction Factors



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

IEC DATE: 5/29/2012

SDG: UU52

INSTRUMENT ID: OPTIMA ICP 1

| ANALYTE | WAVELENGTH | AL | AS | BA | BE | CA | CD | CO | CR | CU | FE |
|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | -0.2671460 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 15.1857000 | 0.0000000 | 0.0000000 |
| Arsenic | 188.98 | 0.0968366 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0278042 | 0.0000000 | -1.2026700 | 0.9023870 | 0.0000000 | 0.0754059 |
| Barium | 233.53 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.1888640 | 0.0000000 | 0.0000000 | 0.0355242 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 228.80 | 0.0000000 | 1.7599700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1139620 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0099375 | 0.0000000 | -0.1609150 | 0.0000000 | 0.0000000 | -0.0194781 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.3593720 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0383107 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3423600 | -0.0466820 | 0.0000000 | -0.0878400 |
| Iron | 273.96 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.7651920 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | -0.3177780 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -2.3759900 | 0.8342190 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -1.1612800 | -1.0216800 | 0.0000000 | 0.6175170 |
| Manganese | 257.61 | 0.0084860 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0180771 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0257018 | 0.0000000 | 0.0000000 | 0.0933245 | 0.0000000 | 0.0124101 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3321560 | 0.0000000 | 0.0000000 | -0.0599311 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.03 | 0.2679630 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0589810 | 0.0000000 | 0.4514010 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silicon | 288.16 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -3.5681100 | 0.0000000 | -1.0020900 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0403784 |
| Sodium | 589.59 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 4.4818000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.80 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 9.0986000 | 0.3674950 | 0.0000000 | -0.1085490 |
| Tin | 189.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.90 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0373290 | 0.0000000 | 0.0000000 | 0.2444290 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -7.0524000 | 0.0000000 | 0.1302620 |
| Zinc | 206.20 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0165094 | 0.0000000 | 0.0000000 | 0.7289660 | 0.0000000 | 0.0000000 |

UU52:00297

ICP Interelement Correction Factors



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

IEC DATE: 5/29/2012

SDG: UU52

INSTRUMENT ID: OPTIMA ICP 1

| ANALYTE | WAVELENGTH | MG | MN | MO | NI | PB | SB | TI | TL | V | ZN |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|-------------|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 21.7825000 | 0.0000000 | 0.0000000 | 0.0000000 | 1.9524000 | 0.0000000 | 15.3881000 | 0.0000000 |
| Antimony | 206.84 | -0.1041080 | 0.0000000 | 1.3316900 | -0.3291700 | 0.0000000 | 0.0000000 | -1.5094000 | 0.0000000 | -3.7687600 | 0.9674010 |
| Arsenic | 188.98 | 0.0000000 | 0.0000000 | 2.0738500 | 0.0000000 | 0.0000000 | 0.0000000 | -1.5162600 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 233.53 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1281830 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.4160660 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0160627 | 0.0000000 | 2.4958300 | 0.0000000 |
| Cadmium | 228.80 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3045470 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0380258 | 0.2350890 | 0.1566040 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0287539 | 0.0000000 | 0.1196170 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | -0.2354060 | 0.0970896 | 0.0000000 | 0.0000000 | 1.6689900 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.2757360 | 0.0000000 | 0.0000000 | 0.0000000 | 0.2149870 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 273.96 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | -0.2855620 | 0.1706620 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | -2.0298600 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.2307900 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0231031 | 0.0000000 |
| Molybdenum | 202.03 | 0.0073210 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1048000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.6505180 | 0.0000000 | 0.5517490 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.03 | 0.0000000 | 0.0000000 | 0.0000000 | 1.3045900 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silicon | 288.16 | -0.1820250 | 0.0000000 | -1.7127900 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.1800920 | 0.1409550 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0336215 | 0.0000000 | -0.2541170 | 0.0000000 |
| Sodium | 589.59 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 27.0360000 | 0.0000000 | 0.0000000 | 342.7190000 |
| Thallium | 190.80 | 0.0000000 | 1.9622100 | -2.1053700 | 0.0000000 | 0.0000000 | 0.0000000 | 1.4997300 | 0.0000000 | 5.6218000 | 0.0000000 |
| Tin | 189.93 | -0.0536731 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.4036970 | -0.4257350 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.90 | 0.0000000 | 0.0000000 | 0.9908490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | -0.1434250 | -6.5129600 | 0.0000000 | 0.0000000 | 0.0000000 | 0.8061690 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 206.20 | -0.0199339 | 0.0000000 | 0.2750230 | 0.0000000 | -0.0830846 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

UU52:00298

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: ICP

PROJECT: Jeld Wen Maulsby Mar

ARI PREP CODE: SWC

SDG: UU52

PREPDATE: 5/18/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|------------------|------------|----------|---------------------|-------------------|
| MS001-SS-120515 | UU52A | 1.033 | 0.0 | 50.0 |
| MS101-SS-120515 | UU52B | 1.024 | 0.0 | 50.0 |
| MS002-SS-120515 | UU52C | 1.050 | 0.0 | 50.0 |
| MS002-SS-120515D | UU52CDUP | 1.051 | 0.0 | 50.0 |
| MS002-SS-120515S | UU52CSPK | 1.054 | 0.0 | 50.0 |
| MS003-SS-120515 | UU52D | 1.017 | 0.0 | 50.0 |
| MS004-SS-120515 | UU52E | 1.034 | 0.0 | 50.0 |
| MS005-SS-120515 | UU52F | 1.049 | 0.0 | 50.0 |
| MS006-SS-120515 | UU52G | 1.086 | 0.0 | 50.0 |
| MS007-SS-120515 | UU52H | 1.057 | 0.0 | 50.0 |
| MS008-SS-120515 | UU52I | 1.038 | 0.0 | 50.0 |
| MS009-SS-120515 | UU52J | 1.082 | 0.0 | 50.0 |
| PBS | UU52MB1 | 1.000 | 0.0 | 50.0 |
| LCSS | UU52MB1SPK | 1.000 | 0.0 | 50.0 |

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: PMS

PROJECT: Jeld Wen Maulsby Mar

ARI PREP CODE: SWN

SDG: UU52

PREPDATE: 5/18/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|------------------|------------|----------|---------------------|-------------------|
| MS001-SS-120515 | UU52A | 1.052 | 0.0 | 50.0 |
| MS101-SS-120515 | UU52B | 1.039 | 0.0 | 50.0 |
| MS002-SS-120515 | UU52C | 1.013 | 0.0 | 50.0 |
| MS002-SS-120515D | UU52CDUP | 1.012 | 0.0 | 50.0 |
| MS002-SS-120515S | UU52CSPK | 1.011 | 0.0 | 50.0 |
| MS003-SS-120515 | UU52D | 1.063 | 0.0 | 50.0 |
| MS004-SS-120515 | UU52E | 1.036 | 0.0 | 50.0 |
| MS005-SS-120515 | UU52F | 1.070 | 0.0 | 50.0 |
| MS006-SS-120515 | UU52G | 1.041 | 0.0 | 50.0 |
| MS007-SS-120515 | UU52H | 1.014 | 0.0 | 50.0 |
| MS008-SS-120515 | UU52I | 1.065 | 0.0 | 50.0 |
| MS009-SS-120515 | UU52J | 1.019 | 0.0 | 50.0 |
| PBS | UU52MB1 | 1.000 | 0.0 | 50.0 |
| LCSS | UU52MB1SPK | 1.000 | 0.0 | 50.0 |

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: CVA

PROJECT: Jeld Wen Maulsby Mar

ARI PREP CODE: SMM

SDG: UU52

PREPDATE: 5/18/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|------------------|------------|----------|---------------------|-------------------|
| MS001-SS-120515 | UU52A | 0.225 | 0.0 | 50.0 |
| MS101-SS-120515 | UU52B | 0.269 | 0.0 | 50.0 |
| MS002-SS-120515 | UU52C | 0.267 | 0.0 | 50.0 |
| MS002-SS-120515D | UU52CDUP | 0.268 | 0.0 | 50.0 |
| MS002-SS-120515S | UU52CSPK | 0.267 | 0.0 | 50.0 |
| MS003-SS-120515 | UU52D | 0.247 | 0.0 | 50.0 |
| MS004-SS-120515 | UU52E | 0.270 | 0.0 | 50.0 |
| MS005-SS-120515 | UU52F | 0.216 | 0.0 | 50.0 |
| MS006-SS-120515 | UU52G | 0.223 | 0.0 | 50.0 |
| MS007-SS-120515 | UU52H | 0.253 | 0.0 | 50.0 |
| MS008-SS-120515 | UU52I | 0.234 | 0.0 | 50.0 |
| MS009-SS-120515 | UU52J | 0.286 | 0.0 | 50.0 |
| PBS | UU52MB1 | 0.200 | 0.0 | 50.0 |
| LCSW | UU52MB1SPK | 0.200 | 0.0 | 50.0 |

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 5/29/2012

SDG: UU52

RUNID: IP052921 METHOD: ICP

END DATE: 5/29/2012

| 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 | 13225 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | X | | |
| S2 | S2 | 1.00 | 13285 | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | |
| S3 | S3 | 1.00 | 13324 | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | X | |
| S4 | S4 | 1.00 | 13370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S5 | S5 | 1.00 | 13411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICV | ICV | 1.00 | 13552 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | X | | |
| ICB | ICB | 1.00 | 14012 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | ZZZZZZ | 1.00 | 14072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 | 14135 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCV | CCV1 | 1.00 | 14181 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB1 | 1.00 | 14241 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CRI | CRII | 1.00 | 14301 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ICSA | ICSAI | 1.00 | 14361 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ICSAB | ICSABI | 1.00 | 14421 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCV | CCV2 | 1.00 | 14491 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB2 | 1.00 | 14551 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | DICHECK | 1.00 | 15011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS | UU52MB1 | 2.00 | 15071 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | QC21 | 1.00 | 15131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QC7M | 1.00 | 15193 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS001-SS-120515 | UU52A | 2.00 | 15253 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS101-SS-120515 | UU52B | 2.00 | 15313 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS002-SS-120515D | UU52CDUP | 2.00 | 15373 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS002-SS-120515 | UU52C | 2.00 | 15434 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS002-SS-120515S | UU52CSPK | 2.00 | 15494 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| LCSS | UU52MB1SPK | 2.00 | 15554 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCV | CCV3 | 1.00 | 16015 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB3 | 1.00 | 16075 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | UU62MB1 | 1.00 | 16135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62K | 1.00 | 16195 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62JDUP | 1.00 | 16255 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62J | 1.00 | 16315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62JSPK | 1.00 | 16375 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS003-SS-120515 | UU52D | 2.00 | 16435 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS004-SS-120515 | UU52E | 2.00 | 16500 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |

UU52:00302

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 5/29/2012

SDG: UU52

RUNID: IP052921 METHOD: ICP

END DATE: 5/29/2012

| 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 | |
|-----------------|------------|------|-------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|--|
| MS005-SS-120515 | UU52F | 2.00 | 16560 | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | | | | | X | |
| MS006-SS-120515 | UU52G | 2.00 | 17020 | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | | | | | X | |
| ZZZZZZ | UU62MB1SPK | 1.00 | 17080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | CCV4 | 1.00 | 17140 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB4 | 1.00 | 17195 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | UU94MB | 1.00 | 17255 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU94B | 1.00 | 17315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU94C | 1.00 | 17381 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU94ADUP | 1.00 | 17442 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU94A | 1.00 | 17504 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU94ASPK | 1.00 | 17571 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS007-SS-120515 | UU52H | 2.00 | 18031 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS008-SS-120515 | UU52I | 2.00 | 18092 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| MS009-SS-120515 | UU52J | 2.00 | 18152 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | UU94MBSPK | 1.00 | 18212 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | CCV5 | 1.00 | 18272 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB5 | 1.00 | 18333 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |

UUS2: 00309

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 5/23/2012

SDG: UU52

RUNID: MS052381

METHOD: PMS

END DATE: 5/24/2012

| 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 16000 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S1 | S1 | 1.00 16060 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S2 | S2 | 1.00 16130 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S3 | S3 | 1.00 16190 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S4 | S4 | 1.00 16250 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | Rinse Sampl | 1.00 16310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 16440 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICV | MICV | 1.00 16510 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICB | ICB | 1.00 16580 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCV | MCCV1 | 1.00 17040 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB1 | 1.00 17100 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CRI | MCRI | 1.00 17160 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICSA | ICSAI | 1.00 17220 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICSAB | ICSABI | 1.00 17280 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | LR200 | 1.00 17350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | LR300 | 1.00 17410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV2 | 1.00 17480 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB2 | 1.00 17540 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | NEW IS | 1.00 18010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB1 | 2.00 18070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB2 | 2.00 18130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB1 | 2.00 18190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB2 | 2.00 18250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB2SPK | 2.00 18300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB1SPK | 2.00 18370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB2SPK | 2.00 18430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB1SPK | 2.00 18490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05A | 2.00 18560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV3 | 1.00 19020 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB3 | 1.00 19080 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | UV14MB1 | 2.00 19140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB2 | 2.00 19200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB2SPK | 2.00 19260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB1SPK | 2.00 19320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14A | 2.00 19380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UU52:00304

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 5/23/2012

SDG: UU52

RUNID: MS052381

METHOD: PMS

END DATE: 5/24/2012

| 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 | UV14B | 2.00 19450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14C | 2.00 19510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05B | 2.00 19570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06A | 2.00 20040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06B | 2.00 20100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV4 | 1.00 20160 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB4 | 1.00 20230 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | UV16MB1 | 2.00 20290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB2 | 2.00 20340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB2SPK | 2.00 20400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB1SPK | 2.00 20470 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16A | 2.00 20530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14D | 2.00 20590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14E | 2.00 21050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14F | 2.00 21120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14G | 2.00 21180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14H | 2.00 21240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV5 | 1.00 21310 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB5 | 1.00 21370 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | UU62MB1 | 2.00 21430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62MB1SPK | 2.00 21490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62JDUP | 2.00 21550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62J | 2.00 22010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62JSPK | 2.00 22080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU62K | 2.00 22140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU27G | 2.00 22200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16B | 2.00 22270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16C | 2.00 22330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16D | 2.00 22390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV6 | 1.00 22450 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB6 | 1.00 22520 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| PBS | UU52MB1 | 20.00 22580 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| LCSS | UU52MB1SPK | 20.00 23040 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS002-SS-120515D | UU52CDUP | 20.00 23100 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS002-SS-120515 | UU52C | 20.00 23160 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |

UU52:00305

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 5/23/2012

SDG: UU52

RUNID: MS052381 METHOD: PMS

END DATE: 5/24/2012

| 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 |
|------------------|-----------|-------------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|
| MS002-SS-120515S | UU52CSPK | 20.00 23230 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS002-SS-120515A | UU52CPOST | 20.00 23290 | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| MS001-SS-120515 | UU52A | 20.00 23350 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS101-SS-120515 | UU52B | 20.00 23420 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS003-SS-120515 | UU52D | 20.00 23480 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS004-SS-120515 | UU52E | 20.00 23540 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCV | MCCV7 | 1.00 00000 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB7 | 1.00 00070 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | UU31MB | 2.00 00130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU31MBSPK | 2.00 00180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU31ADUP | 2.00 00250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU31A | 2.00 00310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU31ASPK | 2.00 00370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS005-SS-120515 | UU52F | 20.00 00440 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS006-SS-120515 | UU52G | 20.00 00500 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS007-SS-120515 | UU52H | 20.00 00560 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS008-SS-120515 | UU52I | 20.00 01030 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| MS009-SS-120515 | UU52J | 20.00 01090 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCV | MCCV8 | 1.00 01150 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB8 | 1.00 01220 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |

UU52: 00306

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen Maulsby Mar

INSTRUMENT ID: CETAC MERCURY

START DATE: 5/21/2012

SDG: UU52

RUNID: HG052102 METHOD: CVA

END DATE: 5/21/2012

| 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 | 14162 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S0.1 | S0.1 | 1.00 | 14180 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S0.5 | S0.5 | 1.00 | 14194 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S1 | S1 | 1.00 | 14211 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S2 | S2 | 1.00 | 14225 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S5 | S5 | 1.00 | 14243 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S10 | S10 | 1.00 | 14261 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICV | AICV | 1.00 | 14291 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICB | ICB | 1.00 | 14304 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | ACCV1 | 1.00 | 14322 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | CCB1 | 1.00 | 14340 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CRA | CRA | 1.00 | 14354 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| PBW | UU52MB1 | 1.00 | 14372 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LCSW | UU52MB1SPK | 1.00 | 14385 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS001-SS-120515 | UU52A | 1.00 | 14403 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS101-SS-120515 | UU52B | 1.00 | 14420 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS002-SS-120515 | UU52C | 1.00 | 14434 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS002-SS-120515D | UU52CDUP | 1.00 | 14452 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS002-SS-120515S | UU52CSPK | 1.00 | 14465 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS003-SS-120515 | UU52D | 1.00 | 14483 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS004-SS-120515 | UU52E | 1.00 | 14501 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | ACCV2 | 1.00 | 14515 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | CCB2 | 1.00 | 14533 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS005-SS-120515 | UU52F | 1.00 | 14551 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS006-SS-120515 | UU52G | 1.00 | 14564 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS007-SS-120515 | UU52H | 1.00 | 14582 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS008-SS-120515 | UU52I | 1.00 | 14595 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS009-SS-120515 | UU52J | 1.00 | 15013 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU77MB1 | 1.00 | 15031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU77MB1SPK | 1.00 | 15044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU77A | 1.00 | 15062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU77B | 1.00 | 15080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU77BDUP | 1.00 | 15094 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | ACCV3 | 1.00 | 15112 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | CCB3 | 1.00 | 15130 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |

UU52:00307

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

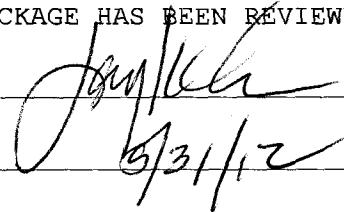
SDG: UU62

| CLIENT ID | ARI ID | ARI LIMS ID | REPREP |
|-----------------|------------|-------------|--------|
| MS-SSRB-120515 | UU62J | 12-8937 | |
| MS-SSRB-120515D | UU62JDUP | 12-8937 | |
| MS-SSRB-120515S | UU62JSPK | 12-8937 | |
| MS-SSFB-120515 | UU62K | 12-8938 | |
| PBW | UU62MB1 | 12-8938 | |
| LCSW | UU62MB1SPK | 12-8938 | |

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature:  Name: Jay Kuhn
Date: 5/31/12 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS-SSRB-120515
SAMPLE

Lab Sample ID: UU62J

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized

Reported: 05/31/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|-------|-----|--------|---|
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.010 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.048 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.010 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 1.24 | 5 | 5 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.92 | 2 | 2 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.6 | 20 | 20 | U |
| 7470A | 05/18/12 | 7470A | 05/21/12 | 7439-97-6 | Mercury | 0.007 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 3.9 | 10 | 10 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.008 | 0.2 | 0.2 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.4 | 10 | 10 | U |

Reported in ug/L (ppb).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MS-SSFB-120515
SAMPLE

Lab Sample ID: UU62K

LIMS ID: 12-8938

Matrix: Water

Data Release Authorized

Reported: 05/31/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------------|---------------|-------|-----|--------|---|
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.010 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.048 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.010 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 1.24 | 5 | 5 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.92 | 2 | 7 | |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.6 | 20 | 20 | U |
| 7470A | 05/18/12 | 7470A | 05/21/12 | 7439-97-6 | Mercury | 0.007 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 3.9 | 10 | 10 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.008 | 0.2 | 0.2 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.4 | 10 | 10 | U |

Reported in ug/L (ppb).

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

**Sample ID: MS-SSRB-120515
MATRIX SPIKE**

Lab Sample ID: UU62J

LIMS ID: 12-8937

Matrix: Water

Data Release Authorized: 

Reported: 05/31/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|----------|-----------------|---------|-------|-------------|------------|---|
| Antimony | 200.8 | 0.200 U | 24.3 | 25.0 | 97.2% | |
| Arsenic | 200.8 | 0.200 U | 25.4 | 25.0 | 102% | |
| Cadmium | 200.8 | 0.100 U | 24.6 | 25.0 | 98.4% | |
| Chromium | 6010C | 5.00 U | 510 | 500 | 102% | |
| Copper | 6010C | 2.00 U | 508 | 500 | 102% | |
| Lead | 6010C | 20.0 U | 2,040 | 2,000 | 102% | |
| Mercury | 7470A | 0.100 U | 1.13 | 1.00 | 113% | |
| Nickel | 6010C | 10.0 U | 485 | 500 | 97.0% | |
| Silver | 200.8 | 0.200 U | 25.1 | 25.0 | 100% | |
| Zinc | 6010C | 10.0 U | 499 | 500 | 99.8% | |

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: MS-SSRB-120515
DUPLICATE

Lab Sample ID: UU62J
 LIMS ID: 12-8937
 Matrix: Water
 Data Release Authorized:
 Reported: 05/31/12

QC Report No: UU62-Anchor QEA, LLC.
 Project: Jeld Wen - Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|----------|-----------------|--------|-----------|------|---------------|---|
| Antimony | 200.8 | 0.2 U | 0.2 U | 0.0% | +/- 0.2 | L |
| Arsenic | 200.8 | 0.2 U | 0.2 U | 0.0% | +/- 0.2 | L |
| Cadmium | 200.8 | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |
| Chromium | 6010C | 5 U | 5 U | 0.0% | +/- 5 | L |
| Copper | 6010C | 2 U | 2 U | 0.0% | +/- 2 | L |
| Lead | 6010C | 20 U | 20 U | 0.0% | +/- 20 | L |
| Mercury | 7470A | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |
| Nickel | 6010C | 10 U | 10 U | 0.0% | +/- 10 | L |
| Silver | 200.8 | 0.2 U | 0.2 U | 0.0% | +/- 0.2 | L |
| Zinc | 6010C | 10 U | 10 U | 0.0% | +/- 10 | 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: UU62LCS

LIMS ID: 12-8938

Matrix: Water

Data Release Authorized:

Reported: 05/31/12

QC Report No: UU62-Anchor QEA, LLC.

Project: Jeld Wen - Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery |
|----------|-----------------|-------------|-------------|------------|
| Antimony | 200.8 | 24.5 | 25.0 | 98.0% |
| Arsenic | 200.8 | 25.7 | 25.0 | 103% |
| Cadmium | 200.8 | 24.1 | 25.0 | 96.4% |
| Chromium | 6010C | 508 | 500 | 102% |
| Copper | 6010C | 516 | 500 | 103% |
| Lead | 6010C | 2080 | 2000 | 104% |
| Mercury | 7470A | 2.21 | 2.00 | 110% |
| Nickel | 6010C | 487 | 500 | 97.4% |
| Silver | 200.8 | 24.4 | 25.0 | 97.6% |
| Zinc | 6010C | 497 | 500 | 99.4% |

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: UU62MB

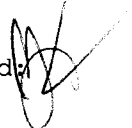
QC Report No: UU62-Anchor QEA, LLC.

LIMS ID: 12-8938

Project: Jeld Wen - Maulsby Marsh

Matrix: Water

120909-01.01

Data Release Authorized: 

Date Sampled: NA

Reported: 05/31/12

Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | MDL | RL | Result | Q |
|-----------|-----------|-----------------|---------------|------------|----------|-------|-----|--------|---|
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-36-0 | Antimony | 0.010 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-38-2 | Arsenic | 0.048 | 0.2 | 0.2 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-43-9 | Cadmium | 0.010 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-47-3 | Chromium | 1.24 | 5 | 5 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-50-8 | Copper | 0.92 | 2 | 2 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7439-92-1 | Lead | 1.6 | 20 | 20 | U |
| 7470A | 05/18/12 | 7470A | 05/21/12 | 7439-97-6 | Mercury | 0.007 | 0.1 | 0.1 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-02-0 | Nickel | 3.9 | 10 | 10 | U |
| 200.8 | 05/21/12 | 200.8 | 05/23/12 | 7440-22-4 | Silver | 0.008 | 0.2 | 0.2 | U |
| 3010A | 05/18/12 | 6010C | 05/29/12 | 7440-66-6 | Zinc | 1.4 | 10 | 10 | U |

Reported in ug/L (ppb).

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

UNITS: ug/L

SDG: UU62

| ANALYTE | EL | M | RUN | ICVTV | ICV | %R | CCVTV | CCV1 | %R | CCV2 | %R | CCV3 | %R | CCV4 | %R | CCV5 | %R |
|----------|----|-----|----------|--------|---------|-------|--------|---------|-------|---------|-------|---------|-------|---------|-------|-------|-------|
| Antimony | SB | PMS | MS052381 | 50.0 | 48.94 | 97.9 | 50.0 | 49.55 | 99.1 | 49.92 | 99.8 | 50.56 | 101.1 | 50.08 | 100.2 | 50.66 | 101.3 |
| Arsenic | AS | PMS | MS052381 | 50.0 | 49.58 | 99.2 | 50.0 | 50.39 | 100.8 | 50.54 | 101.1 | 50.38 | 100.8 | 50.74 | 101.5 | 50.17 | 100.3 |
| Cadmium | CD | PMS | MS052381 | 50.0 | 49.26 | 98.5 | 50.0 | 49.93 | 99.9 | 51.05 | 102.1 | 50.01 | 100.0 | 49.82 | 99.6 | 49.69 | 99.4 |
| Chromium | CR | ICP | IP052921 | 1000.0 | 952.21 | 95.2 | 1000.0 | 955.71 | 95.6 | 969.44 | 96.9 | 958.42 | 95.8 | 967.84 | 96.8 | | |
| Copper | CU | ICP | IP052921 | 1000.0 | 1018.90 | 101.9 | 1000.0 | 1022.83 | 102.3 | 1026.48 | 102.6 | 1028.22 | 102.8 | 1032.55 | 103.3 | | |
| Lead | PB | ICP | IP052921 | 2000.0 | 1985.98 | 99.3 | 2000.0 | 1992.73 | 99.6 | 2005.36 | 100.3 | 1989.83 | 99.5 | 1965.06 | 98.3 | | |
| Mercury | HG | CVA | HG052101 | 8.0 | 8.42 | 105.3 | 4.0 | 4.17 | 104.3 | 4.14 | 103.5 | | | | | | |
| Nickel | NI | ICP | IP052921 | 1000.0 | 959.39 | 95.9 | 1000.0 | 969.42 | 96.9 | 987.90 | 98.8 | 978.45 | 97.8 | 993.21 | 99.3 | | |
| Silver | AG | PMS | MS052381 | 50.0 | 49.85 | 99.7 | 50.0 | 50.32 | 100.6 | 50.65 | 101.3 | 49.79 | 99.6 | 50.39 | 100.8 | 50.33 | 100.7 |
| Zinc | ZN | ICP | IP052921 | 1000.0 | 1002.35 | 100.2 | 1000.0 | 1011.70 | 101.2 | 1032.32 | 103.2 | 1020.62 | 102.1 | 1036.95 | 103.7 | | |

UU62:00315

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

Calibration Verification

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

SDG: UU62



UNITS: ug/L

| ANALYTE | EL | M | RUN | CCVTV | CCV6 %R | CCV7 %R | CCV8 %R | CCV9 %R | CCV10 %R | CCV11 %R |
|----------|----|-----|----------|--------|---------|---------|---------|---------|----------|----------|
| Antimony | SB | PMS | MS052381 | 50.0 | 49.61 | 99.2 | | | | |
| Arsenic | AS | PMS | MS052381 | 50.0 | 50.22 | 100.4 | | | | |
| Cadmium | CD | PMS | MS052381 | 50.0 | 48.99 | 98.0 | | | | |
| Chromium | CR | ICP | IP052921 | 1000.0 | | | | | | |
| Copper | CU | ICP | IP052921 | 1000.0 | | | | | | |
| Lead | PB | ICP | IP052921 | 2000.0 | | | | | | |
| Mercury | HG | CVA | HG052101 | 4.0 | | | | | | |
| Nickel | NI | ICP | IP052921 | 1000.0 | | | | | | |
| Silver | AG | PMS | MS052381 | 50.0 | 49.58 | 99.2 | | | | |
| Zinc | ZN | ICP | IP052921 | 1000.0 | | | | | | |

UU52:00316

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

CRDL Standard

CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

SDG: UU62



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 |
|----------|----|-----|----------|-------|------|-------|-------|------|----|------|----|------|----|------|----|------|----|
| Antimony | SB | PMS | MS052381 | | 0.2 | 0.20 | 100.0 | | | | | | | | | | |
| Arsenic | AS | PMS | MS052381 | | 0.2 | 0.28 | 140.0 | | | | | | | | | | |
| Cadmium | CD | PMS | MS052381 | | 0.1 | 0.10 | 100.0 | | | | | | | | | | |
| Chromium | CR | ICP | IP052921 | | 5.0 | 4.72 | 94.4 | | | | | | | | | | |
| Copper | CU | ICP | IP052921 | | 2.0 | 2.11 | 105.5 | | | | | | | | | | |
| Lead | PB | ICP | IP052921 | | 20.0 | 20.11 | 100.6 | | | | | | | | | | |
| Mercury | HG | CVA | HG052101 | | 0.1 | 0.10 | 100.0 | | | | | | | | | | |
| Nickel | NI | ICP | IP052921 | | 10.0 | 10.85 | 108.5 | | | | | | | | | | |
| Silver | AG | PMS | MS052381 | | 0.2 | 0.19 | 95.0 | | | | | | | | | | |
| Zinc | ZN | ICP | IP052921 | | 10.0 | 9.55 | 95.5 | | | | | | | | | | |

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

UU62:00317

Calibration Blanks



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

UNITS: ug/L

SDG: UU62

| ANALYTE | EL | METH | RUN | CRDL | IDL | ICB | C | CCB1 | C | CCB2 | C | CCB3 | C | CCB4 | C | CCB5 | C |
|----------|----|------|----------|------|------|------|---|------|---|------|---|------|---|------|---|------|---|
| Antimony | SB | PMS | MS052381 | 60.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Arsenic | AS | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Cadmium | CD | PMS | MS052381 | 5.0 | 0.1 | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U |
| Chromium | CR | ICP | IP052921 | 10.0 | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | | |
| Copper | CU | ICP | IP052921 | 25.0 | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | | |
| Lead | PB | ICP | IP052921 | 3.0 | 20.0 | 20.0 | U | 20.0 | U | 20.0 | U | 20.0 | U | 20.0 | U | | |
| Mercury | HG | CVA | HG052101 | 0.2 | 0.1 | 0.1 | U | 0.1 | U | 0.1 | U | | | | | | |
| Nickel | NI | ICP | IP052921 | 40.0 | 10.0 | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | | |
| Silver | AG | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Zinc | ZN | ICP | IP052921 | 20.0 | 10.0 | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | | |

UU62:00319

Calibration Blanks



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

SDG: UU62

UNITS: ug/L

| ANALYTE | EL | METH | RUN | CRDL | IDL | CCB6 | C | CCB7 | C | CCB8 | C | CCB9 | C | CCB10 | C | CCB11 | C |
|----------|----|------|----------|------|------|------|---|------|---|------|---|------|---|-------|---|-------|---|
| Antimony | SB | PMS | MS052381 | 60.0 | 0.2 | 0.2 | U | | | | | | | | | | |
| Arsenic | AS | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | | | | | | | | | | |
| Cadmium | CD | PMS | MS052381 | 5.0 | 0.1 | 0.1 | U | | | | | | | | | | |
| Chromium | CR | ICP | IP052921 | 10.0 | 5.0 | | | | | | | | | | | | |
| Copper | CU | ICP | IP052921 | 25.0 | 2.0 | | | | | | | | | | | | |
| Lead | PB | ICP | IP052921 | 3.0 | 20.0 | | | | | | | | | | | | |
| Mercury | HG | CVA | HG052101 | 0.2 | 0.1 | | | | | | | | | | | | |
| Nickel | NI | ICP | IP052921 | 40.0 | 10.0 | | | | | | | | | | | | |
| Silver | AG | PMS | MS052381 | 10.0 | 0.2 | 0.2 | U | | | | | | | | | | |
| Zinc | ZN | ICP | IP052921 | 20.0 | 10.0 | | | | | | | | | | | | |

UU62:00319

ICP Interference Check Sample



CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: Jeld Wen - Maulsby M

RUNID: IP052921

SDG: UU62

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|----------|----------|-------|-------|--------|----|-------|--------|----|
| Aluminum | 200000 | 200000 | 211269.8 | 206979.3 | 103.5 | | | | | | |
| Antimony | | 1000 | -32.1 | 1032.0 | 103.2 | | | | | | |
| Arsenic | | 1000 | -2.8 | 1046.1 | 104.6 | | | | | | |
| Barium | | 1000 | 1.8 | 956.5 | 95.7 | | | | | | |
| Beryllium | | 1000 | 0.0 | 1010.4 | 101.0 | | | | | | |
| Boron | | | -13.6 | -19.0 | | | | | | | |
| Cadmium | | 1000 | 1.0 | 1003.4 | 100.3 | | | | | | |
| Calcium | 100000 | 100000 | 101025.3 | 102192.3 | 102.2 | | | | | | |
| Chromium | | 1000 | 2.1 | 963.1 | 96.3 | | | | | | |
| Cobalt | | 1000 | 0.9 | 925.6 | 92.6 | | | | | | |
| Copper | | 1000 | 2.6 | 1039.9 | 104.0 | | | | | | |
| Iron | 200000 | 200000 | 205569.9 | 203892.9 | 101.9 | | | | | | |
| Lead | | 1000 | 4.8 | 965.0 | 96.5 | | | | | | |
| Magnesium | 100000 | 100000 | 103325.9 | 104634.5 | 104.6 | | | | | | |
| Manganese | | 1000 | 0.1 | 961.7 | 96.2 | | | | | | |
| Molybdenum | | | 7.3 | 8.2 | | | | | | | |
| Nickel | | 1000 | 0.8 | 935.3 | 93.5 | | | | | | |
| Potassium | | | 0.9 | 7.4 | | | | | | | |
| Selenium | | 1000 | -4.0 | 1009.8 | 101.0 | | | | | | |
| Silicon | | | -11.9 | -9.6 | | | | | | | |
| Silver | | 1000 | 2.1 | 1035.9 | 103.6 | | | | | | |
| Sodium | | | 50.3 | 59.4 | | | | | | | |
| Strontium | | | 10.3 | 11.2 | | | | | | | |
| Thallium | | 1000 | -8.8 | 941.9 | 94.2 | | | | | | |
| Tin | | | -27.3 | -29.3 | | | | | | | |
| Titanium | | | 0.7 | -0.1 | | | | | | | |
| Vanadium | | 1000 | -5.6 | 1005.7 | 100.6 | | | | | | |
| Zinc | | 1000 | -1.8 | 925.4 | 92.5 | | | | | | |

1152:00320

ICP Interference Check Sample



CLIENT: Anchor QEA, LLC.

ICS SOURCE: I.V.

PROJECT: Jeld Wen - Maulsby M

RUNID: MS052381

SDG: UU62

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

| ANALYTE | ICSA TV | ICSAB TV | ICSA1 | ICSAB1 | %R | ICSA2 | ICSAB2 | %R | ICSA3 | ICSAB3 | %R |
|------------|---------|----------|-------|--------|-------|-------|--------|----|-------|--------|----|
| Antimony | | | 0.0 | 0.1 | | | | | | | |
| Cadmium | | 20 | 0.0 | 19.4 | 97.0 | | | | | | |
| Chromium | | 20 | 0.7 | 20.1 | 100.5 | | | | | | |
| Cobalt | | 20 | 0.0 | 19.3 | 96.5 | | | | | | |
| Copper | | 20 | 0.5 | 20.0 | 100.0 | | | | | | |
| Lead | | | 0.1 | 0.1 | | | | | | | |
| Manganese | | 20 | 0.0 | 19.6 | 98.0 | | | | | | |
| Molybdenum | 400 | 400 | 401.6 | 403.3 | 100.8 | | | | | | |
| Nickel | | 20 | 0.6 | 19.2 | 96.0 | | | | | | |
| Selenium | | | -0.1 | -0.1 | | | | | | | |
| Silver | | 20 | 0.0 | 18.9 | 94.5 | | | | | | |
| Thorium | | | 0.1 | 0.1 | | | | | | | |
| Vanadium | | | 0.0 | -0.4 | | | | | | | |
| Zinc | | 20 | 1.1 | 20.1 | 100.5 | | | | | | |

UU62:00321

IDLs and ICP Linear Ranges



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

SDG: UU62

UNITS: ug/L

| ANALYTE | EL | METH | INSTRUMENT | WAVELENGTH (nm) | GFA | | RL | RL DATE | ICP LINEAR RANGE (ug/L) | ICP LR DATE |
|----------|----|------|-----------------|--------------------|-----------------|-------------|------|------------|----------------------------|----------------|
| | | | | | BACK- GROUND | CLP CRDL | | | | |
| Antimony | SB | PMS | PE ELAN 6000 MS | 0.00 | | 60 | 0.2 | 4/1/2011 | | |
| Arsenic | AS | PMS | PE ELAN 6000 MS | 0.00 | | 10 | 0.2 | 4/1/2011 | | |
| Cadmium | CD | PMS | PE ELAN 6000 MS | 0.00 | | 5 | 0.1 | 4/1/2011 | | |
| Chromium | CR | ICP | OPTIMA ICP 1 | 267.72 | | 10 | 5.0 | 4/1/2011 | 100000.0 | 7/12/2010 |
| Copper | CU | ICP | OPTIMA ICP 1 | 324.75 | | 25 | 2.0 | 4/1/2011 | 40000.0 | 7/12/2010 |
| Lead | PB | ICP | OPTIMA ICP 1 | 220.35 | | 3 | 20.0 | 4/1/2011 | 300000.0 | 7/12/2010 |
| Mercury | HG | CVA | CETAC MERCURY | 253.70 | | 0.2 | 0.1 | 4/1/2011 | | |
| Nickel | NI | ICP | OPTIMA ICP 1 | 231.60 | | 40 | 10.0 | 4/1/2011 | 100000.0 | 7/12/2010 |
| Silver | AG | PMS | PE ELAN 6000 MS | 0.00 | | 10 | 0.2 | 4/1/2011 | | |
| Zinc | ZN | ICP | OPTIMA ICP 1 | 206.20 | | 20 | 10.0 | 4/1/2011 | 100000.0 | 7/12/2010 |

ICP Interelement Correction Factors



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

SDG: UU62

IEC DATE: 5/29/2012

INSTRUMENT ID: OPTIMA ICP 1

| ANALYTE | WAVELENGTH | AL | AS | BA | BE | CA | CD | CO | CR | CU | FE |
|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | -0.2671460 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 15.1857000 | 0.0000000 | 0.0000000 |
| Arsenic | 188.98 | 0.0968366 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0278042 | 0.0000000 | -1.2026700 | 0.9023870 | 0.0000000 | 0.0754059 |
| Barium | 233.53 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.1888640 | 0.0000000 | 0.0000000 | 0.0355242 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 228.80 | 0.0000000 | 1.7599700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1139620 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0099375 | 0.0000000 | -0.1609150 | 0.0000000 | 0.0000000 | -0.0194781 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.3593720 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0383107 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3423600 | -0.0466820 | 0.0000000 | -0.0878400 |
| Iron | 273.96 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.7651920 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | -0.3177780 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -2.3759900 | 0.8342190 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -1.1612800 | -1.0216800 | 0.0000000 | 0.6175170 |
| Manganese | 257.61 | 0.0084860 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0180771 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0257018 | 0.0000000 | 0.0000000 | 0.0933245 | 0.0000000 | 0.0124101 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3321560 | 0.0000000 | 0.0000000 | -0.0599311 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.03 | 0.2679630 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0589810 | 0.0000000 | 0.4514010 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silicon | 288.16 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -3.5681100 | 0.0000000 | -1.0020900 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0403784 |
| Sodium | 589.59 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 4.4818000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.80 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 9.0986000 | 0.3674950 | 0.0000000 | -0.1085490 |
| Tin | 189.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.90 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0373290 | 0.0000000 | 0.0000000 | 0.2444290 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -7.0524000 | 0.0000000 | 0.1302620 |
| Zinc | 206.20 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0165094 | 0.0000000 | 0.0000000 | 0.7289660 | 0.0000000 | 0.0000000 |

UU52:00923

ICP Interelement Correction Factors



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

IEC DATE: 5/29/2012

SDG: UU62

INSTRUMENT ID: OPTIMA ICP 1

| ANALYTE | WAVELENGTH | MG | MN | MO | NI | PB | SB | TI | TL | V | ZN |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|-------------|
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 21.7825000 | 0.0000000 | 0.0000000 | 0.0000000 | 1.9524000 | 0.0000000 | 15.3881000 | 0.0000000 |
| Antimony | 206.84 | -0.1041080 | 0.0000000 | 1.3316900 | -0.3291700 | 0.0000000 | 0.0000000 | -1.5094000 | 0.0000000 | -3.7687600 | 0.9674010 |
| Arsenic | 188.98 | 0.0000000 | 0.0000000 | 2.0738500 | 0.0000000 | 0.0000000 | 0.0000000 | -1.5162600 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 233.53 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1281830 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.4160660 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0160627 | 0.0000000 | 2.4958300 | 0.0000000 |
| Cadmium | 228.80 | 0.0000000 | 0.0000000 | 0.0000000 | -0.3045470 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0380258 | 0.2350890 | 0.1566040 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0287539 | 0.0000000 | 0.1196170 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | -0.2354060 | 0.0970896 | 0.0000000 | 0.0000000 | 1.6689900 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.2757360 | 0.0000000 | 0.0000000 | 0.0000000 | 0.2149870 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 273.96 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | -0.2855620 | 0.1706620 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | -2.0298600 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.2307900 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0231031 | 0.0000000 |
| Molybdenum | 202.03 | 0.0073210 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.1048000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.6505180 | 0.0000000 | 0.5517490 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.03 | 0.0000000 | 0.0000000 | 0.0000000 | 1.3045900 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silicon | 288.16 | -0.1820250 | 0.0000000 | -1.7127900 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.1800920 | 0.1409550 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0336215 | 0.0000000 | -0.2541170 | 0.0000000 |
| Sodium | 589.59 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 27.0360000 | 0.0000000 | 0.0000000 | 342.7190000 |
| Thallium | 190.80 | 0.0000000 | 1.9622100 | -2.1053700 | 0.0000000 | 0.0000000 | 0.0000000 | 1.4997300 | 0.0000000 | 5.6218000 | 0.0000000 |
| Tin | 189.93 | -0.0536731 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.4036970 | -0.4257350 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.90 | 0.0000000 | 0.0000000 | 0.9908490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | -0.1434250 | -6.5129600 | 0.0000000 | 0.0000000 | 0.0000000 | 0.8061690 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 206.20 | -0.0199339 | 0.0000000 | 0.2750230 | 0.0000000 | -0.0830846 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

UU62:00324

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: ICP

PROJECT: Jeld Wen - Maulsby M

ARI PREP CODE: TWC

SDG: UU62

PREPDATE: 5/18/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|-----------------|------------|----------|---------------------|-------------------|
| MS-SSRB-120515 | UU62J | 0.000 | 50.0 | 50.0 |
| MS-SSRB-120515D | UU62JDUP | 0.000 | 50.0 | 50.0 |
| MS-SSRB-120515S | UU62JSPK | 0.000 | 50.0 | 50.0 |
| MS-SSFB-120515 | UU62K | 0.000 | 50.0 | 50.0 |
| PBW | UU62MB1 | 0.000 | 50.0 | 50.0 |
| LCSW | UU62MB1SPK | 0.000 | 50.0 | 50.0 |

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: PMS

PROJECT: Jeld Wen - Maulsby M

ARI PREP CODE: REN

SDG: UU62

PREPDATE: 5/21/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|-----------------|------------|----------|---------------------|-------------------|
| MS-SSRB-120515 | UU62J | 0.000 | 50.0 | 25.0 |
| MS-SSRB-120515D | UU62JDUP | 0.000 | 50.0 | 25.0 |
| MS-SSRB-120515S | UU62JSPK | 0.000 | 50.0 | 25.0 |
| MS-SSFb-120515 | UU62K | 0.000 | 50.0 | 25.0 |
| PBW | UU62MB1 | 0.000 | 50.0 | 25.0 |
| LCSW | UU62MB1SPK | 0.000 | 50.0 | 25.0 |

Preparation Log



CLIENT: Anchor QEA, LLC.

ANALYSIS METHOD: CVA

PROJECT: Jeld Wen - Maulsby M

ARI PREP CODE: TWM

SDG: UU62

PREPDATE: 5/18/2012

| CLIENT ID | ARI ID | MASS (g) | INITIAL VOLUME (mL) | FINAL VOLUME (mL) |
|-----------------|------------|----------|---------------------|-------------------|
| MS-SSRB-120515 | UU62J | 0.000 | 20.0 | 20.0 |
| MS-SSRB-120515D | UU62JDUP | 0.000 | 20.0 | 20.0 |
| MS-SSRB-120515S | UU62JSPK | 0.000 | 20.0 | 20.0 |
| MS-SSFB-120515 | UU62K | 0.000 | 20.0 | 20.0 |
| PBW | UU62MB1 | 0.000 | 20.0 | 20.0 |
| LCSW | UU62MB1SPK | 0.000 | 20.0 | 20.0 |

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 5/29/2012

SDG: UU62

RUNID: IP052921 METHOD: ICP

END DATE: 5/29/2012

| 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 | 13225 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | X | | |
| S2 | S2 | 1.00 | 13285 | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | |
| S3 | S3 | 1.00 | 13324 | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | X | |
| S4 | S4 | 1.00 | 13370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S5 | S5 | 1.00 | 13411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICV | ICV | 1.00 | 13552 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | X | | |
| ICB | ICB | 1.00 | 14012 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | ZZZZZZ | 1.00 | 14072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 | 14135 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCV | CCV1 | 1.00 | 14181 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB1 | 1.00 | 14241 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CRI | CRII | 1.00 | 14301 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ICSA | ICSAI | 1.00 | 14361 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ICSAB | ICSABI | 1.00 | 14421 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCV | CCV2 | 1.00 | 14491 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB2 | 1.00 | 14551 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| ZZZZZZ | DICHECK | 1.00 | 15011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52MB1 | 2.00 | 15071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QC21 | 1.00 | 15131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | QC7M | 1.00 | 15193 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52A | 2.00 | 15253 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52B | 2.00 | 15313 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52CDUP | 2.00 | 15373 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52C | 2.00 | 15434 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52CSPK | 2.00 | 15494 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52MB1SPK | 2.00 | 15554 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | CCV3 | 1.00 | 16015 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | X | |
| CCB | CCB3 | 1.00 | 16075 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| PBW | UU62MB1 | 1.00 | 16135 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| MS-SSFB-120515 | UU62K | 1.00 | 16195 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| MS-SSRB-120515D | UU62JDUP | 1.00 | 16255 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| MS-SSRB-120515 | UU62J | 1.00 | 16315 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| MS-SSRB-120515S | UU62JSPK | 1.00 | 16375 | | | | | | | | | | | X | X | | | | | | | | X | X | | | | | | | | | | X |
| ZZZZZZ | UU52D | 2.00 | 16435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52E | 2.00 | 16500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UU52: 00328

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 5/29/2012

SDG: UU62

RUNID: IP052921 METHOD: ICP

END DATE: 5/29/2012

| 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 | UU52F | 2.00 16560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UU52G | 2.00 17020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW | UU62MB1SPK | 1.00 17080 | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | | | | | X | |
| CCV | CCV4 | 1.00 17140 | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | | | | | X | |
| CCB | CCB4 | 1.00 17195 | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | | | | | X | |

UU52:00929

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 5/23/2012

SDG: UU62

RUNID: MS052381 METHOD: PMS

END DATE: 5/23/2012

| 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 | PE | SB | SE | SI | SN | TI | TL | U | V | ZN |
|-----------|-------------|------|-------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|
| S0 | S0 | 1.00 | 16000 | | X | | X | | | | | X | | | | | | | | | | | | | X | | | | | | | | |
| S1 | S1 | 1.00 | 16060 | | X | | X | | | | | X | | | | | | | | | | | | | X | | | | | | | | |
| S2 | S2 | 1.00 | 16130 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S3 | S3 | 1.00 | 16190 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| S4 | S4 | 1.00 | 16250 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | Rinse Sampl | 1.00 | 16310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0 | S0 | 1.00 | 16440 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICV | MICV | 1.00 | 16510 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICB | ICB | 1.00 | 16580 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCV | MCCV1 | 1.00 | 17040 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB1 | 1.00 | 17100 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CRI | MCRI | 1.00 | 17160 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICSA | ICSAI | 1.00 | 17220 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ICSAB | ICSABI | 1.00 | 17280 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | LR200 | 1.00 | 17350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | LR300 | 1.00 | 17410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV2 | 1.00 | 17480 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB2 | 1.00 | 17540 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | NEW IS | 1.00 | 18010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB1 | 2.00 | 18070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB2 | 2.00 | 18130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB1 | 2.00 | 18190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB2 | 2.00 | 18250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB2SPK | 2.00 | 18300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06MB1SPK | 2.00 | 18370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB2SPK | 2.00 | 18430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05MB1SPK | 2.00 | 18490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05A | 2.00 | 18560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV3 | 1.00 | 19020 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| CCB | CCB3 | 1.00 | 19080 | | X | | X | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | UV14MB1 | 2.00 | 19140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB2 | 2.00 | 19200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB2SPK | 2.00 | 19260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14MB1SPK | 2.00 | 19320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14A | 2.00 | 19380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UJ52:00330

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

INSTRUMENT ID: PE ELAN 6000 MS

START DATE: 5/23/2012

SDG: UU62

RUNID: MS052381

METHOD: PMS

END DATE: 5/23/2012

| 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 | UV14B | 2.00 19450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14C | 2.00 19510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV05B | 2.00 19570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06A | 2.00 20040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV06B | 2.00 20100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV4 | 1.00 20160 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB4 | 1.00 20230 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | UV16MB1 | 2.00 20290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB2 | 2.00 20340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB2SPK | 2.00 20400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16MB1SPK | 2.00 20470 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16A | 2.00 20530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14D | 2.00 20590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14E | 2.00 21050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14F | 2.00 21120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14G | 2.00 21180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV14H | 2.00 21240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV5 | 1.00 21310 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB5 | 1.00 21370 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| PBW | UU62MB1 | 2.00 21430 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| LCSW | UU62MB1SPK | 2.00 21490 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS-SSRB-120515D | UU62JDUP | 2.00 21550 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS-SSRB-120515 | UU62J | 2.00 22010 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS-SSRB-120515S | UU62JSPK | 2.00 22080 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| MS-SSFB-120515 | UU62K | 2.00 22140 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | UU27G | 2.00 22200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16B | 2.00 22270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16C | 2.00 22330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | UV16D | 2.00 22390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | MCCV6 | 1.00 22450 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| CCB | CCB6 | 1.00 22520 | | X | | X | | | | | | X | | | | | | | | | | | | X | | | | | | | | |

UU52:00531

Analysis Run Log



CLIENT: Anchor QEA, LLC.

PROJECT: Jeld Wen - Maulsby M

INSTRUMENT ID: CETAC MERCURY

START DATE: 5/21/2012

SDG: UU62

RUNID: HG052101 METHOD: CVA

END DATE: 5/21/2012

| 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 13145 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S0.1 | S0.1 | 1.00 13162 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S0.5 | S0.5 | 1.00 13180 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S1 | S1 | 1.00 13193 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S2 | S2 | 1.00 13211 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S5 | S5 | 1.00 13225 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S10 | S10 | 1.00 13243 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICV | AICV | 1.00 13273 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICB | ICB | 1.00 13290 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | ACCV1 | 1.00 13304 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | CCB1 | 1.00 13322 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CRA | CRA | 1.00 13340 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| PBW | UU62MB1 | 1.00 13353 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LCSW | UU62MB1SPK | 1.00 13371 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS-SSRB-120515 | UU62J | 1.00 13384 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS-SSRB-120515D | UU62JDUP | 1.00 13402 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS-SSRB-120515S | UU62JSPK | 1.00 13420 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| MS-SSFB-120515 | UU62K | 1.00 13433 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | ACCV2 | 1.00 13451 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | CCB2 | 1.00 13465 | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |

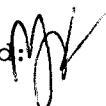
0052:00332

**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS001-SS-120515
ARI ID: 12-8893 UU52A

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.20 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 9.70 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.94 | 132 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 207 | 2,960 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.194 | 19.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS101-SS-120515
ARI ID: 12-8894 UU52B

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.20 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 9.70 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.99 | 130 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 206 | 3,100 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.186 | 18.4 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS002-SS-120515
ARI ID: 12-8895 UU52C


| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.40 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.50 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 5.02 | 213 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 197 | 2,350 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.194 | 17.1 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS003-SS-120515
ARI ID: 12-8896 UU52D

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.30 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.90 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 2.28 | 170 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 201 | 3,640 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.200 | 23.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS004-SS-120515
ARI ID: 12-8897 UU52E


| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.30 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.00 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 4.85 | 178 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 207 | 4,070 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.184 | 17.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS005-SS-120515
ARI ID: 12-8898 UU52F

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.20 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 8.30 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.15 | 71.1 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 118 | 1,840 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.192 | 29.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS006-SS-120515
ARI ID: 12-8899 UU52G

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.80 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 6.90 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.02 | 17.9 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 14.1 | 20.5 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.208 | 31.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS007-SS-120515
ARI ID: 12-8900 UU52H


| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 16.80 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 19.00 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 0.59 | 33.2 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 52.6 | 718 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.196 | 16.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS008-SS-120515
ARI ID: 12-8901 UU52I

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.70 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 8.10 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 0.99 | 12.6 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 113 | 1,770 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.200 | 22.5 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS009-SS-120515
ARI ID: 12-8902 UU52J

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.10 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.60 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 2.06 | 117 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 89.8 | 1,720 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.190 | 12.2 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS010-SS-120515
ARI ID: 12-8903 UU52K


| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.60 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.50 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.76 | 100 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 177 | 2,030 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.164 | 11.8 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

LAB CONTROL RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte/Method | QC ID | Date | Units | LCS | Spike Added | Recovery |
|-----------------------------------|-------|----------|---------|-------|-------------|----------|
| Sulfide EPA 376.2 | PREP | 05/18/12 | mg/kg | 125 | 127 | 98.3% |
| Total Organic Carbon EPA 9060M | ICVL | 05/24/12 | Percent | 0.097 | 0.100 | 97.0% |

METHOD BLANK RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized
Reported: 05/25/12


A handwritten signature in black ink, appearing to be 'JK' or similar, written over the 'Data Release Authorized' text.

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte | Date | Units | Blank |
|------------------------|----------|---------|-----------|
| Total Solids | 05/22/12 | Percent | < 0.01 U |
| Preserved Total Solids | 05/21/12 | Percent | < 0.01 U |
| N-Ammonia | 05/21/12 | mg-N/kg | < 0.10 U |
| Sulfide | 05/18/12 | mg/kg | < 1.00 U |
| Total Organic Carbon | 05/24/12 | Percent | < 0.020 U |

STANDARD REFERENCE RESULTS-CONVENTIONALS
UU52-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Date | Units | SRM | True Value | Recovery |
|------------------------------------|----------|---------|------|------------|----------|
| N-Ammonia ERA 160510 | 05/21/12 | mg-N/kg | 101 | 100 | 101.0% |
| Total Organic Carbon NIST 1941B | 05/24/12 | Percent | 2.74 | 2.99 | 91.6% |

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS110-SS-120515
ARI ID: 12-8928 UU62A

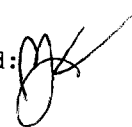
| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.40 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.70 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 0.97 | 95.6 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 91.4 | 1,750 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.200 | 15.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS011-SS-120515
ARI ID: 12-8929 UU62B

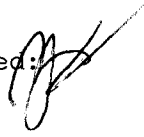
| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|----------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.80 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 11.00 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 0.96 | 20.8 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 8.88 | < 8.88 U |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.198 | 31.5 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS012-SS-120515
ARI ID: 12-8930 UU62C

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.70 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.50 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 2.02 | 155 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 189 | 2,180 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.200 | 22.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS013-SS-120515
ARI ID: 12-8931 UU62D

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.30 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 9.60 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 2.01 | 107 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 103 | 1,520 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.194 | 18.8 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen - Mauksby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS014-SS-120515
ARI ID: 12-8932 UU62E

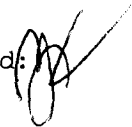
| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 9.80 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 10.80 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 5.27 | 204 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 441 | 4,450 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.192 | 16.9 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS015-SS-120515
ARI ID: 12-8933 UU62F

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 10.30 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 11.00 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.89 | 121 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 178 | 2,130 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.200 | 14.3 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS016-SS-120515
ARI ID: 12-8934 UU62G

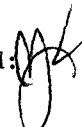
| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 12.40 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 11.00 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.70 | 129 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 89.5 | 702 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.194 | 19.6 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS017-SS-120515
ARI ID: 12-8935 UU62H

| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 8.40 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 7.40 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.23 | 117 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 131 | 2,450 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.198 | 21.8 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

SAMPLE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

Client ID: MS018-SS-120515
ARI ID: 12-8936 UU62I


| Analyte | Date | Method | Units | RL | Sample |
|------------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 05/22/12 052212#1 | SM2540B | Percent | 0.01 | 11.70 |
| Preserved Total Solids | 05/21/12 052112#1 | SM2540B | Percent | 0.01 | 11.10 |
| N-Ammonia | 05/21/12 052112#1 | EPA 350.1M | mg-N/kg | 1.80 | 130 |
| Sulfide | 05/18/12 051812#1 | EPA 376.2 | mg/kg | 190 | 2,960 |
| Total Organic Carbon | 05/24/12 052412#1 | EPA 9060M | Percent | 0.198 | 18.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

Ammonia determined on 2N KCl extracts.

MS/MSD RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.




Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

| Analyte | Date | Units | Sample | Spike | Spike Added | Recovery |
|---|----------|---------|--------|-------|-------------|----------|
| ARI ID: UU62A Client ID: MS110-SS-120515 | | | | | | |
| N-Ammonia | 05/21/12 | mg-N/kg | 95.6 | 1,040 | 1,000 | 94.3% |
| Sulfide | 05/18/12 | mg/kg | 1,750 | 4,240 | 2,300 | 108.3% |
| Total Organic Carbon | 05/24/12 | Percent | 15.7 | 38.1 | 18.7 | 120.0% |

REPLICATE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: 05/15/12
Date Received: 05/16/12

| Analyte | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---|----------|---------|--------|----------------|---------|
| ARI ID: UU62A Client ID: MS110-SS-120515 | | | | | |
| Total Solids | 05/22/12 | Percent | 10.40 | 10.30 10.40 | 0.6% |
| Preserved Total Solids | 05/21/12 | Percent | 10.70 | 10.70 | 0.0% |
| N-Ammonia | 05/21/12 | mg-N/kg | 95.6 | 98.5 | 3.0% |
| Sulfide | 05/18/12 | mg/kg | 1,750 | 1,520 | 14.1% |
| Total Organic Carbon | 05/24/12 | Percent | 15.7 | 14.9 15.9 | 3.4% |

LAB CONTROL RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

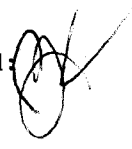
A handwritten signature in black ink, appearing to be 'J. Wen', written over the 'Data Release Authorized:' line.

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte/Method | QC ID | Date | Units | LCS | Spike Added | Recovery |
|-----------------------------------|-------|----------|---------|-------|-------------|----------|
| Sulfide EPA 376.2 | PREP | 05/18/12 | mg/kg | 125 | 127 | 98.3% |
| Total Organic Carbon EPA 9060M | ICVL | 05/24/12 | Percent | 0.097 | 0.100 | 97.0% |

METHOD BLANK RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized: 
Reported: 05/25/12

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte | Date | Units | Blank |
|------------------------|----------|---------|-----------|
| Total Solids | 05/22/12 | Percent | < 0.01 U |
| Preserved Total Solids | 05/21/12 | Percent | < 0.01 U |
| N-Ammonia | 05/21/12 | mg-N/kg | < 0.10 U |
| Sulfide | 05/18/12 | mg/kg | < 1.00 U |
| Total Organic Carbon | 05/24/12 | Percent | < 0.020 U |

STANDARD REFERENCE RESULTS-CONVENTIONALS
UU62-Anchor QEA, LLC.



Matrix: Sediment
Data Release Authorized:
Reported: 05/25/12

A handwritten signature in black ink, appearing to be 'JL', is written over the 'Data Release Authorized:' line.

Project: Jeld Wen - Maulsby Marsh
Event: 120909-01.01
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Date | Units | SRM | True Value | Recovery |
|------------------------------------|----------|---------|------|------------|----------|
| N-Ammonia ERA 160510 | 05/21/12 | mg-N/kg | 101 | 100 | 101.0% |
| Total Organic Carbon NIST 1941B | 05/24/12 | Percent | 2.74 | 2.99 | 91.6% |

**Geotechnical Analysis
Report and Summary QC Forms**

ARI Job ID: UU52, UU62

Anchor QEA, LLC
 120909-01.01
 Jeld Wen Maulsby Marsh

Apparent Grain Size Distribution Summary
 Percent Finer Than Indicated Size

| Sample No. | Gravel | | | Very Coarse Sand | Coarse Sand | Medium Sand | Fine Sand | Very Fine Sand | Silt | | | | Clay | |
|----------------------|----------|--------------|---------------|------------------|--------------|--------------|---------------|----------------|-------|-------|------|------|------|------|
| | Phi Size | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Sieve Size (microns) | 3/8" | #4 (4750) | #10 (2000) | #18 (1000) | #35 (500) | #60 (250) | #120 (125) | #230 (63) | 31.00 | 15.60 | 7.80 | 3.90 | 2.00 | 1.00 |
| MS002-SS-120515 | 100.0 | 100.0 | 99.6 | 85.4 | 79.4 | 75.0 | 72.0 | 69.8 | 68.3 | 49.5 | 37.3 | 22.1 | 17.6 | 12.2 |
| | 100.0 | 99.4 | 99.1 | 89.0 | 83.1 | 78.9 | 75.9 | 73.3 | 72.3 | 52.9 | 39.1 | 22.6 | 18.2 | 13.0 |
| | 100.0 | 100.0 | 97.3 | 81.9 | 74.8 | 69.8 | 66.3 | 63.5 | 62.7 | 49.2 | 35.7 | 20.6 | 16.5 | 11.7 |
| MS001-SS-120515 | 100.0 | 100.0 | 100.0 | 75.6 | 68.4 | 63.9 | 60.9 | 58.8 | 57.5 | 44.4 | 33.1 | 20.6 | 17.6 | 14.2 |
| MS101-SS-120515 | 100.0 | 100.0 | 88.2 | 71.2 | 63.3 | 58.5 | 55.3 | 52.9 | 51.8 | 40.3 | 30.4 | 19.2 | 15.9 | 12.5 |
| MS003-SS-120515 | 100.0 | 99.3 | 92.5 | 80.7 | 72.6 | 66.9 | 62.9 | 60.1 | 54.9 | 30.3 | 22.7 | 16.8 | 15.5 | 12.9 |
| MS004-SS-120515 | 100.0 | 100.0 | 95.4 | 87.2 | 79.7 | 73.0 | 67.7 | 64.1 | 59.9 | 34.7 | 26.3 | 18.8 | 15.6 | 11.8 |
| MS005-SS-120515 | 100.0 | 97.4 | 80.9 | 67.0 | 55.7 | 46.3 | 39.6 | 35.6 | 32.8 | 28.7 | 22.2 | 16.2 | 11.4 | 9.1 |
| MS006-SS-120515 | 100.0 | 99.6 | 83.8 | 64.8 | 48.2 | 35.6 | 27.7 | 22.7 | 19.5 | 17.1 | 13.6 | 10.7 | 7.3 | 5.0 |
| MS007-SS-120515 | 100.0 | 99.7 | 98.8 | 82.4 | 72.7 | 64.6 | 55.0 | 44.8 | 33.6 | 23.8 | 16.6 | 9.7 | 7.5 | 5.3 |
| MS008-SS-120515 | 100.0 | 64.4 | 55.9 | 44.5 | 37.3 | 31.9 | 27.7 | 24.6 | 19.4 | 16.8 | 12.6 | 8.5 | 5.5 | 3.4 |
| MS009-SS-120515 | 100.0 | 99.7 | 94.5 | 86.2 | 79.2 | 72.9 | 67.6 | 63.2 | 52.9 | 40.7 | 31.7 | 21.0 | 16.8 | 12.7 |
| MS010-SS-120515 | 100.0 | 97.3 | 88.6 | 79.1 | 72.1 | 66.3 | 61.6 | 57.9 | 49.8 | 35.3 | 27.2 | 18.4 | 15.5 | 11.6 |

Notes to the Testing:

- Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

US2 : 00363

Anchor QEA, LLC
120909-01.01
Jeld Wen Maulsby Marsh

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

| Sample No. | Gravel | Very Coarse Sand | Coarse Sand | Medium Sand | Fine Sand | Very Fine Sand | Coarse Silt | Medium Silt | Fine Silt | Very Fine Silt | Clay | | | Total Fines |
|----------------------|-----------------|-------------------------|---------------------|--------------------|---------------------|---------------------|-------------|-------------|-----------|----------------|---------|---------|------|---------------|
| | | | | | | | | | | | 8 to 9 | 9 to 10 | < 10 | |
| Phi Size | > -1 | -1 to 0 | 0 to 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | 6 to 7 | 7 to 8 | 8 to 9 | 9 to 10 | < 10 | <4 |
| Sieve Size (microns) | > #10 (2000) | 10 to 18 (2000-1000) | 18-35 (1000-500) | 35-60 (500-250) | 60-120 (250-125) | 120-230 (125-62) | 62.5-31.0 | 31.0-15.6 | 15.6-7.8 | 7.8-3.9 | 3.9-2.0 | 2.0-1.0 | <1.0 | <230 (<62) |
| MS002-SS-120515 | 0.4 | 14.2 | 6.0 | 4.4 | 3.0 | 2.3 | 1.5 | 18.8 | 12.2 | 15.2 | 4.5 | 5.4 | 12.2 | 69.8 |
| | 0.9 | 10.1 | 5.9 | 4.2 | 3.1 | 2.6 | 1.0 | 19.5 | 13.8 | 16.4 | 4.5 | 5.1 | 13.0 | 73.3 |
| | 2.7 | 15.5 | 7.1 | 5.0 | 3.5 | 2.7 | 0.9 | 13.5 | 13.5 | 15.1 | 4.1 | 4.7 | 11.7 | 63.5 |
| MS001-SS-120515 | 0.0 | 24.4 | 7.1 | 4.5 | 3.0 | 2.1 | 1.3 | 13.1 | 11.3 | 12.4 | 3.1 | 3.3 | 14.2 | 58.8 |
| MS101-SS-120515 | 11.8 | 17.1 | 7.9 | 4.8 | 3.2 | 2.4 | 1.0 | 11.5 | 9.9 | 11.2 | 3.4 | 3.4 | 12.5 | 52.9 |
| MS003-SS-120515 | 7.5 | 11.8 | 8.1 | 5.7 | 4.0 | 2.7 | 5.2 | 24.5 | 7.7 | 5.9 | 1.3 | 2.5 | 12.9 | 60.1 |
| MS004-SS-120515 | 4.6 | 8.2 | 7.5 | 6.7 | 5.3 | 3.7 | 4.2 | 25.2 | 8.4 | 7.5 | 3.2 | 3.7 | 11.8 | 64.1 |
| MS005-SS-120515 | 19.1 | 13.9 | 11.2 | 9.5 | 6.6 | 4.1 | 2.8 | 4.1 | 6.5 | 6.0 | 4.8 | 2.3 | 9.1 | 35.6 |
| MS006-SS-120515 | 16.2 | 19.0 | 16.5 | 12.6 | 8.0 | 4.9 | 3.3 | 2.4 | 3.5 | 2.9 | 3.4 | 2.3 | 5.0 | 22.7 |
| MS007-SS-120515 | 1.2 | 16.4 | 9.7 | 8.2 | 9.6 | 10.2 | 11.2 | 9.7 | 7.2 | 6.9 | 2.2 | 2.2 | 5.3 | 44.8 |
| MS008-SS-120515 | 44.1 | 11.4 | 7.2 | 5.4 | 4.2 | 3.1 | 5.2 | 2.6 | 4.3 | 4.1 | 3.0 | 2.0 | 3.4 | 24.6 |
| MS009-SS-120515 | 5.5 | 8.3 | 7.0 | 6.3 | 5.3 | 4.5 | 10.3 | 12.2 | 9.0 | 10.7 | 4.2 | 4.1 | 12.7 | 63.2 |
| MS010-SS-120515 | 11.4 | 9.5 | 7.1 | 5.8 | 4.7 | 3.8 | 8.1 | 14.5 | 8.1 | 8.7 | 2.9 | 3.9 | 11.6 | 57.9 |

Notes to the Testing:

- Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

UU52 : 00354

QA SUMMARY

| | | | |
|-------------------------|-----------------|---------------------|------------------------|
| Client: | Anchor QEA, LLC | Client Project No.: | 120909-01.01 |
| ARI Trip. Sample ID: | UU52C | Client Project: | Jeld Wen Maulsby Marsh |
| Client Trip. Sample ID: | MS002-SS-120515 | Batch No.: | UU52-1 |
| | | Page: | 1 of 1 |

Relative Standard Deviation, By Phi Size

| Sample ID | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MS002-SS-120515 | 100.0 | 100.0 | 99.6 | 85.4 | 79.4 | 75.0 | 72.0 | 69.8 | 68.3 | 49.5 | 37.3 | 22.1 | 17.6 | 12.2 |
| | 100.0 | 99.4 | 99.1 | 89.0 | 83.1 | 78.9 | 75.9 | 73.3 | 72.3 | 52.9 | 39.1 | 22.6 | 18.2 | 13.0 |
| | 100.0 | 100.0 | 97.3 | 81.9 | 74.8 | 69.8 | 66.3 | 63.5 | 62.7 | 49.2 | 35.7 | 20.6 | 16.5 | 11.7 |
| AVE | NA | 99.80 | 98.68 | 85.44 | 79.12 | 74.58 | 71.39 | 68.87 | 67.78 | 50.54 | 37.37 | 21.80 | 17.42 | 12.32 |
| STDEV | NA | 0.35 | 1.20 | 3.58 | 4.19 | 4.61 | 4.82 | 4.94 | 4.85 | 2.04 | 1.69 | 1.07 | 0.87 | 0.65 |
| %RSD | NA | 0.35 | 1.22 | 4.19 | 5.30 | 6.18 | 6.76 | 7.17 | 7.15 | 4.04 | 4.51 | 4.89 | 4.97 | 5.28 |

The Triplicate Applies To The Following Samples

| Client ID | Date Sampled | Date Extracted | Date Complete | QA Ratio (95-105) | Data Qualifiers | Pipette Portion (5.0-25.0g) |
|-----------------|--------------|----------------|---------------|-------------------|-----------------|-----------------------------|
| MS002-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 96.8 | | 6.6 |
| | 5/15/2012 | 5/18/2012 | 5/25/2012 | 97.7 | | 7.0 |
| | 5/15/2012 | 5/18/2012 | 5/25/2012 | 98.6 | | 6.1 |
| MS001-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 97.9 | | 5.4 |
| MS101-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 99.9 | | 5.0 |
| MS003-SS-120515 | 5/15/2012 | 5/22/2012 | 5/25/2012 | 99.3 | | 8.4 |
| MS004-SS-120515 | 5/15/2012 | 5/22/2012 | 5/25/2012 | 99.5 | | 9.5 |
| MS005-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 103.1 | SS, W | 3.4 |
| MS006-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 103.5 | SS, W | 2.8 |
| MS007-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 100.7 | | 9.3 |
| MS008-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 106.0 | SS, SM, W | 4.1 |
| MS009-SS-120515 | 5/15/2012 | 5/22/2012 | 5/25/2012 | 100.1 | | 9.5 |
| MS010-SS-120515 | 5/15/2012 | 5/22/2012 | 5/25/2012 | 98.2 | | 8.9 |

* ARI Internal QA limits = 95-105%

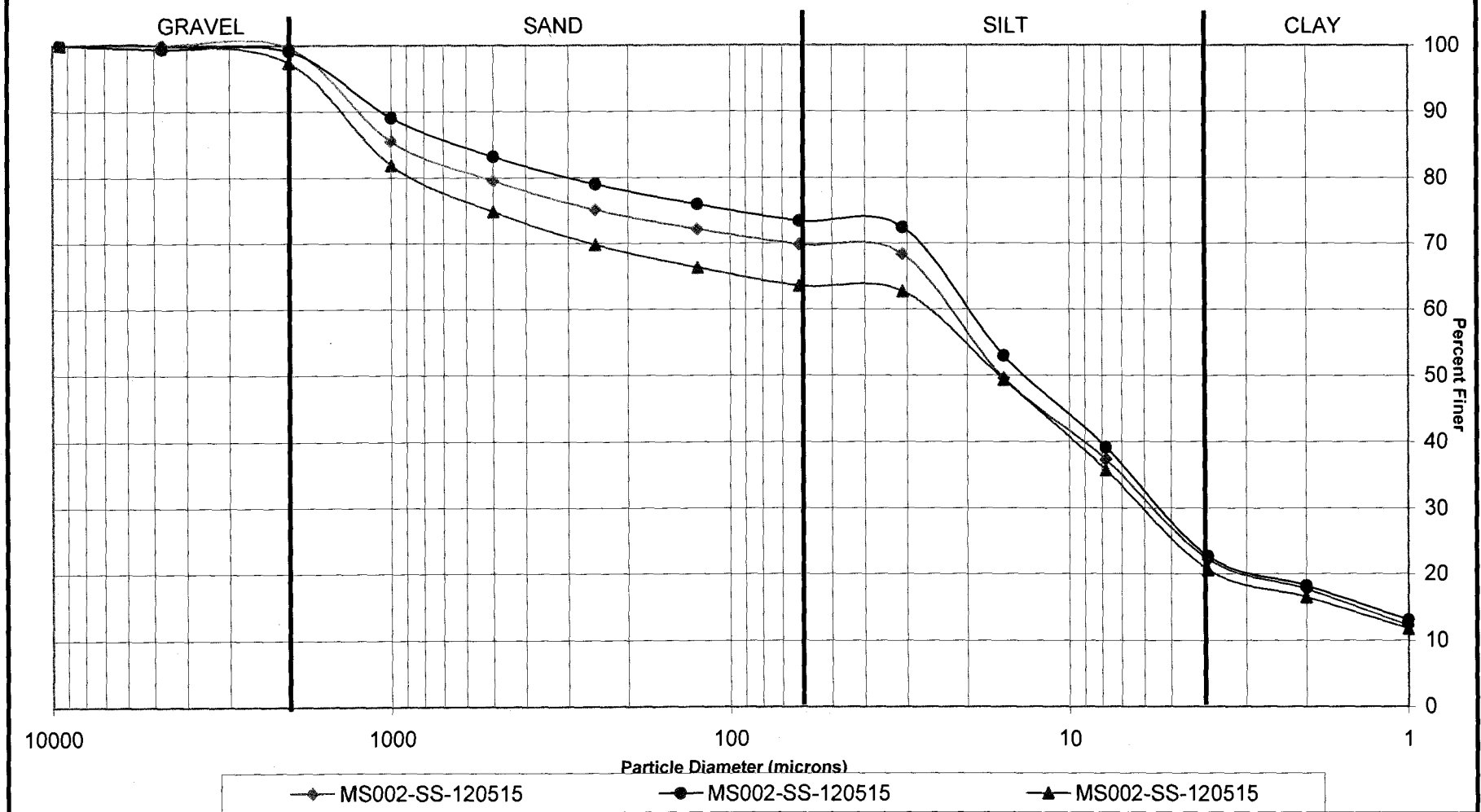
Notes to the Testing:

- Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

UU52: 00365

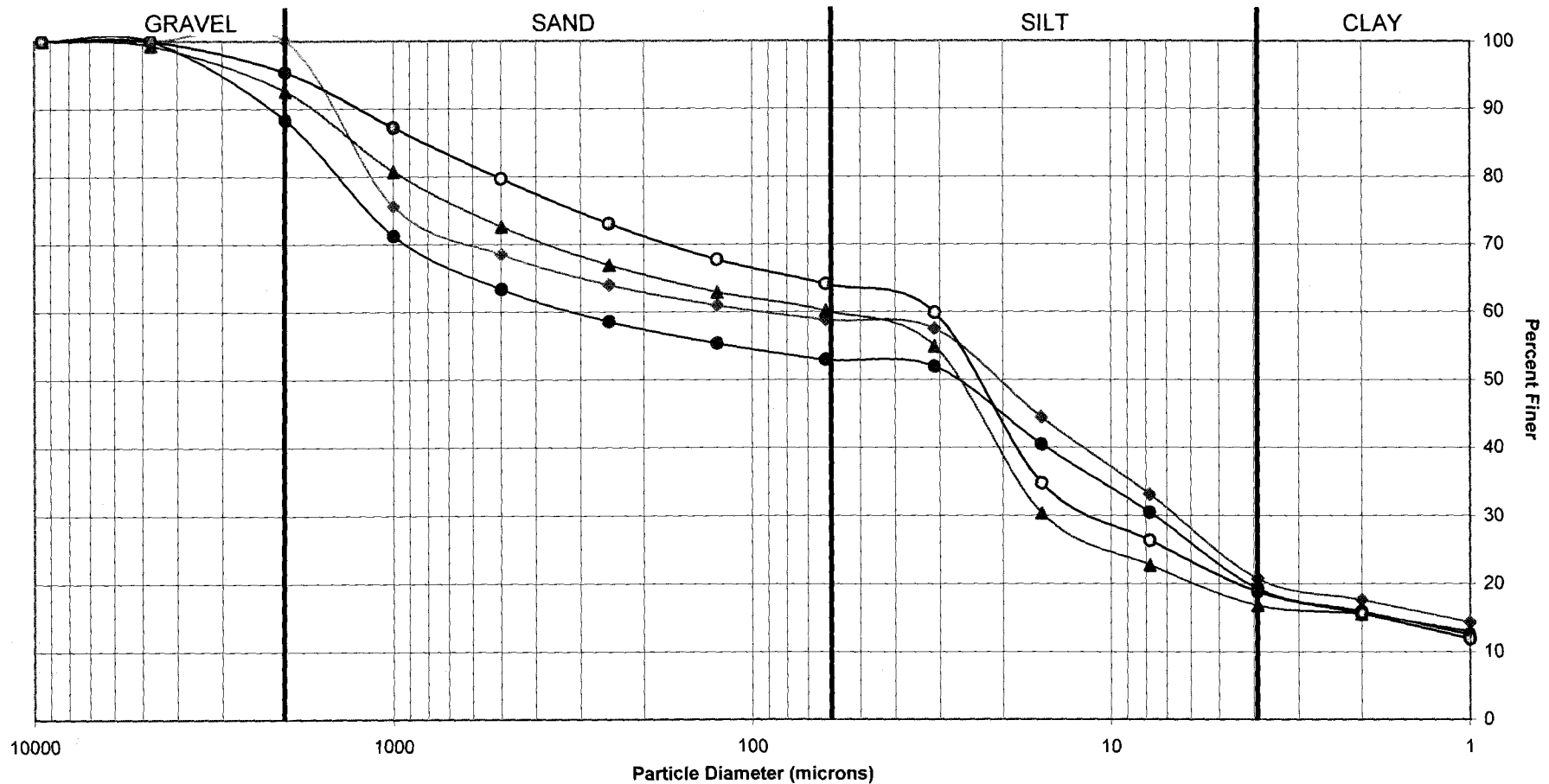
PSEP Grain Size Distribution

Triplicate Sample Plot



US2:00366

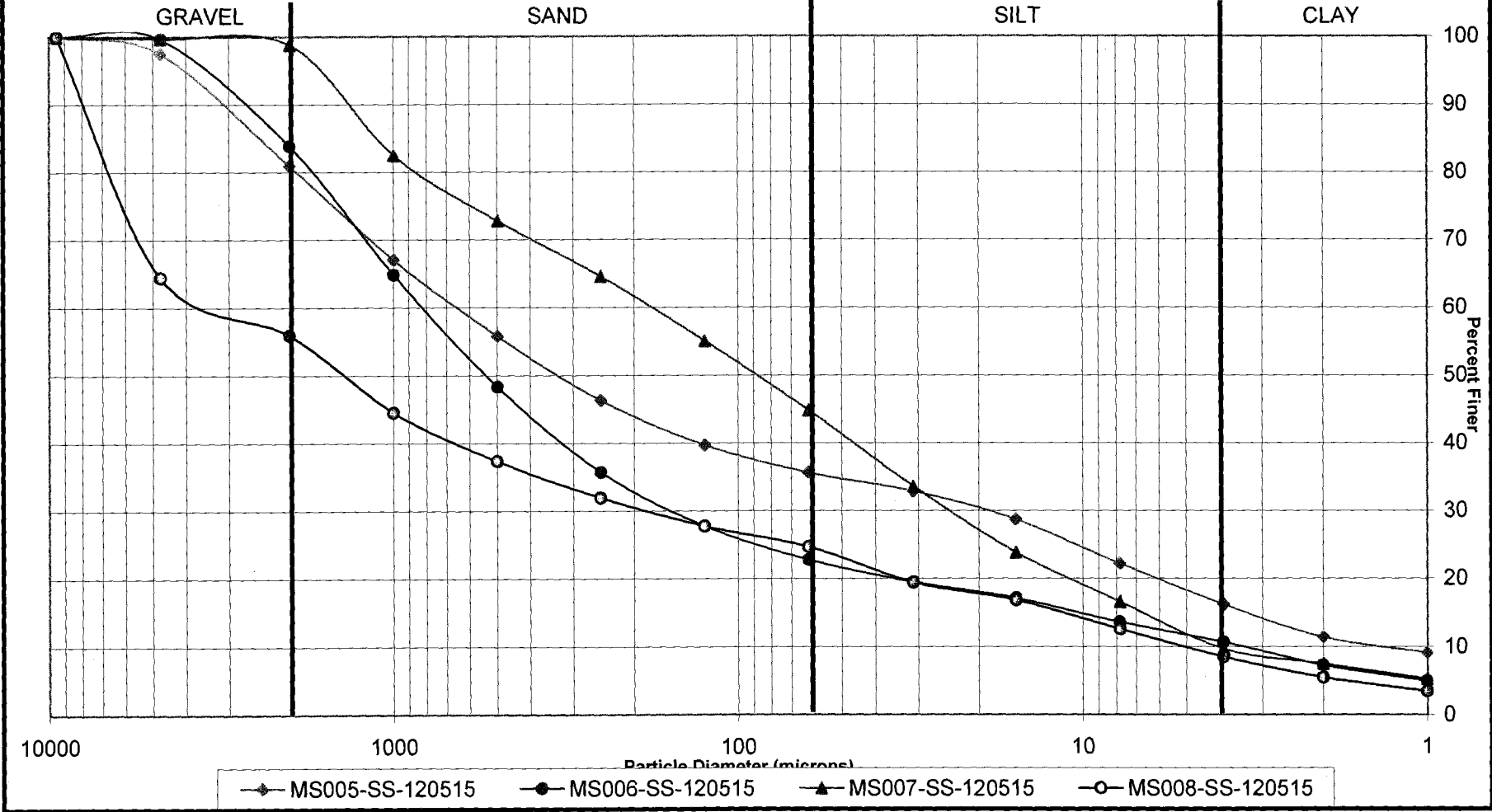
PSEP Grain Size Distribution



◆ MS001-SS-120515 ● MS101-SS-120515 ▲ MS003-SS-120515 ○ MS004-SS-120515

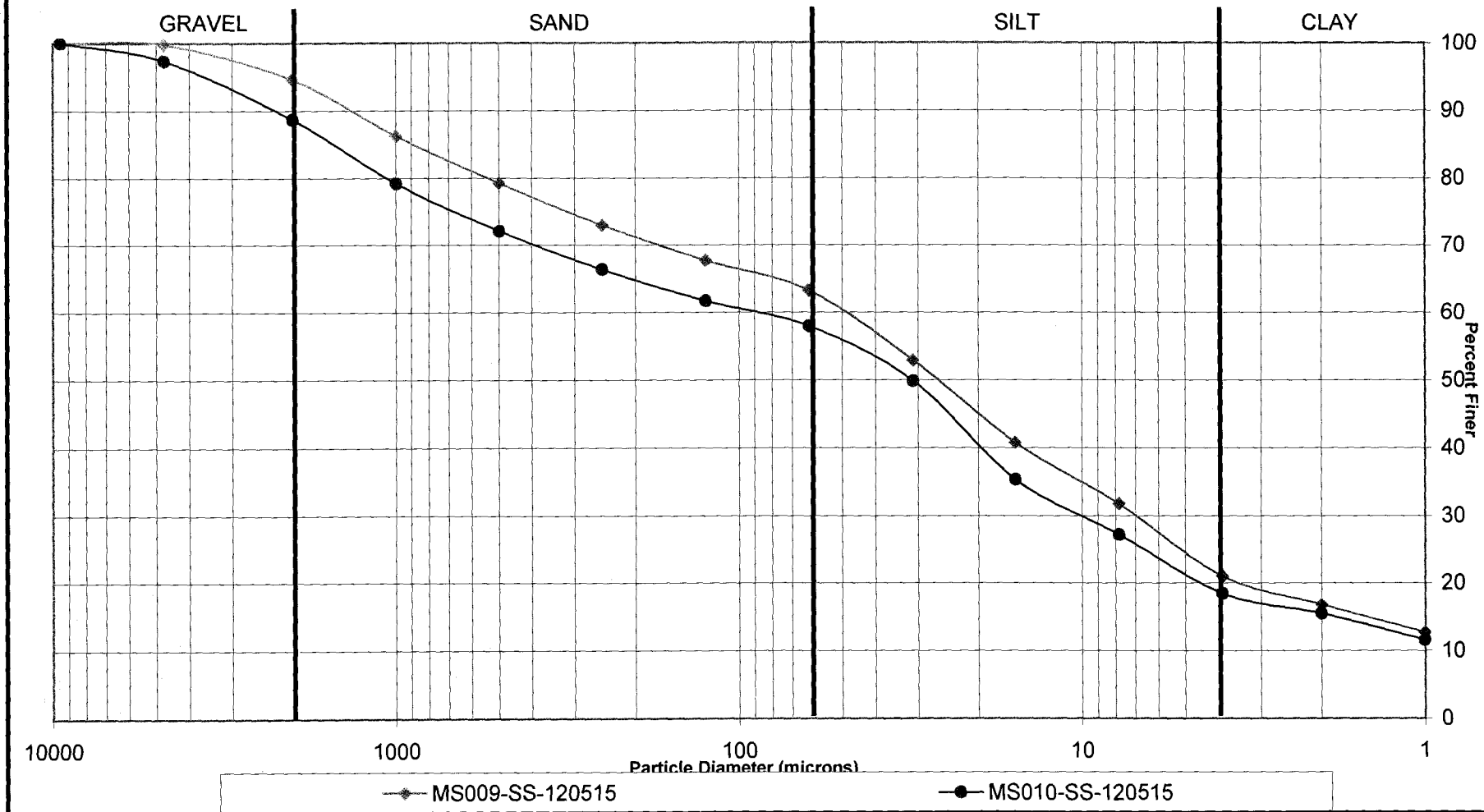
US2:00367

PSEP Grain Size Distribution



US2: 00368

PSEP Grain Size Distribution



US2: 00369

Anchor QEA, LLC
 120909-01.01
 Jeld Wen Maulsby Marsh

Apparent Grain Size Distribution Summary
 Percent Finer Than Indicated Size

| Sample No. | Gravel | | | Very Coarse Sand | Coarse Sand | Medium Sand | Fine Sand | Very Fine Sand | Silt | | | | Clay | |
|----------------------|----------|--------------|---------------|------------------|--------------|--------------|---------------|----------------|-------|-------|------|------|------|------|
| | Phi Size | -3 | -2 | | | | | | -1 | 0 | 1 | 2 | 3 | 4 |
| Sieve Size (microns) | 3/8" | #4 (4750) | #10 (2000) | #18 (1000) | #35 (500) | #60 (250) | #120 (125) | #230 (63) | 31.00 | 15.60 | 7.80 | 3.90 | 2.00 | 1.00 |
| MS002-SS-120515 | 100.0 | 100.0 | 99.6 | 85.4 | 79.4 | 75.0 | 72.0 | 69.8 | 68.3 | 49.5 | 37.3 | 22.1 | 17.6 | 12.2 |
| | 100.0 | 99.4 | 99.1 | 89.0 | 83.1 | 78.9 | 75.9 | 73.3 | 72.3 | 52.9 | 39.1 | 22.6 | 18.2 | 13.0 |
| | 100.0 | 100.0 | 97.3 | 81.9 | 74.8 | 69.8 | 66.3 | 63.5 | 62.7 | 49.2 | 35.7 | 20.6 | 16.5 | 11.7 |
| MS110-SS-120515 | 100.0 | 100.0 | 97.4 | 83.2 | 73.8 | 67.4 | 62.3 | 58.5 | 56.1 | 46.6 | 37.1 | 21.7 | 16.1 | 12.0 |
| MS011-SS-120515 | 100.0 | 95.6 | 76.4 | 58.6 | 44.1 | 32.4 | 25.0 | 20.4 | 20.3 | 18.7 | 15.1 | 10.9 | 7.7 | 5.1 |
| MS012-SS-120515 | 100.0 | 99.3 | 78.7 | 67.7 | 61.8 | 57.7 | 54.9 | 53.0 | 48.1 | 29.2 | 22.7 | 18.5 | 17.4 | 15.2 |
| MS013-SS-120515 | 100.0 | 99.7 | 76.4 | 64.8 | 57.8 | 54.1 | 49.8 | 48.0 | 43.8 | 30.9 | 19.3 | 12.4 | 10.2 | 9.3 |
| MS014-SS-120515 | 100.0 | 100.0 | 93.1 | 79.7 | 69.4 | 62.4 | 57.5 | 54.3 | 52.4 | 44.6 | 32.7 | 19.9 | 15.2 | 11.8 |
| MS015-SS-120515 | 100.0 | 96.0 | 83.8 | 72.5 | 65.0 | 60.2 | 57.5 | 56.0 | 53.9 | 42.1 | 30.1 | 17.4 | 13.4 | 10.5 |
| MS016-SS-120515 | 100.0 | 93.4 | 82.7 | 68.7 | 58.3 | 51.1 | 46.6 | 43.8 | 43.6 | 35.0 | 22.1 | 12.8 | 10.7 | 8.2 |
| MS017-SS-120515 | 100.0 | 97.4 | 80.4 | 66.1 | 54.6 | 46.4 | 41.1 | 37.7 | 37.0 | 33.6 | 24.7 | 16.4 | 14.0 | 11.4 |
| MS018-SS-120515 | 100.0 | 100.0 | 83.2 | 74.5 | 69.9 | 66.6 | 63.8 | 61.7 | 59.9 | 42.2 | 29.3 | 22.2 | 17.6 | 12.9 |

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

UU62

01200000370

Anchor QEA, LLC
120909-01.01
Jeld Wen Maulsby Marsh

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

| Sample No. | Gravel | Very Coarse Sand | Coarse Sand | Medium Sand | Fine Sand | Very Fine Sand | Coarse Silt | Medium Silt | Fine Silt | Very Fine Silt | Clay | | | Total Fines |
|----------------------|-----------------|-------------------------|---------------------|--------------------|---------------------|---------------------|-------------|-------------|-----------|----------------|---------|---------|------|---------------|
| | | | | | | | | | | | 8 to 9 | 9 to 10 | < 10 | |
| Phi Size | > -1 | -1 to 0 | 0 to 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | 6 to 7 | 7 to 8 | 8 to 9 | 9 to 10 | < 10 | <4 |
| Sieve Size (microns) | > #10 (2000) | 10 to 18 (2000-1000) | 18-35 (1000-500) | 35-60 (500-250) | 60-120 (250-125) | 120-230 (125-62) | 62.5-31.0 | 31.0-15.6 | 15.6-7.8 | 7.8-3.9 | 3.9-2.0 | 2.0-1.0 | <1.0 | <230 (<62) |
| MS002-SS-120515 | 0.4 | 14.2 | 6.0 | 4.4 | 3.0 | 2.3 | 1.5 | 18.8 | 12.2 | 15.2 | 4.5 | 5.4 | 12.2 | 69.8 |
| | 0.9 | 10.1 | 5.9 | 4.2 | 3.1 | 2.6 | 1.0 | 19.5 | 13.8 | 16.4 | 4.5 | 5.1 | 13.0 | 73.3 |
| | 2.7 | 15.5 | 7.1 | 5.0 | 3.5 | 2.7 | 0.9 | 13.5 | 13.5 | 15.1 | 4.1 | 4.7 | 11.7 | 63.5 |
| MS110-SS-120515 | 2.6 | 14.2 | 9.4 | 6.5 | 5.0 | 3.8 | 2.4 | 9.5 | 9.5 | 15.4 | 5.5 | 4.1 | 12.0 | 58.5 |
| MS011-SS-120515 | 23.6 | 17.8 | 14.5 | 11.7 | 7.4 | 4.6 | 0.2 | 1.6 | 3.7 | 4.2 | 3.2 | 2.6 | 5.1 | 20.4 |
| MS012-SS-120515 | 21.3 | 11.0 | 5.9 | 4.1 | 2.8 | 1.9 | 4.9 | 18.9 | 6.5 | 4.1 | 1.2 | 2.2 | 15.2 | 53.0 |
| MS013-SS-120515 | 23.6 | 11.6 | 7.1 | 3.7 | 4.2 | 1.8 | 4.2 | 12.9 | 11.6 | 6.9 | 2.2 | 0.8 | 9.3 | 48.0 |
| MS014-SS-120515 | 6.9 | 13.4 | 10.3 | 7.0 | 4.9 | 3.2 | 1.9 | 7.7 | 11.9 | 12.8 | 4.7 | 3.4 | 11.8 | 54.3 |
| MS015-SS-120515 | 16.2 | 11.3 | 7.5 | 4.8 | 2.7 | 1.5 | 2.1 | 11.8 | 11.9 | 12.8 | 4.0 | 2.9 | 10.5 | 56.0 |
| MS016-SS-120515 | 17.3 | 14.0 | 10.4 | 7.2 | 4.5 | 2.8 | 0.2 | 8.5 | 12.9 | 9.3 | 2.1 | 2.5 | 8.2 | 43.8 |
| MS017-SS-120515 | 19.6 | 14.3 | 11.5 | 8.2 | 5.3 | 3.4 | 0.7 | 3.4 | 9.0 | 8.3 | 2.4 | 2.5 | 11.4 | 37.7 |
| MS018-SS-120515 | 16.8 | 8.7 | 4.6 | 3.3 | 2.8 | 2.1 | 1.8 | 17.7 | 12.9 | 7.1 | 4.6 | 4.7 | 12.9 | 61.7 |

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

UU62

USS2:00371

QA SUMMARY

| | | | |
|-------------------------|-----------------|---------------------|------------------------|
| Client: | Anchor QEA, LLC | Client Project No.: | 120909-01.01 |
| ARI Trip. Sample ID: | UU52 C | Client Project: | Jeld Wen Maulsby Marsh |
| Client Trip. Sample ID: | MS002-SS-120515 | Batch No.: | UU62-1 |
| | | Page: | 1 of 1 |

Relative Standard Deviation, By Phi Size

| Sample ID | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MS002-SS-120515 | 100.0 | 100.0 | 99.6 | 85.4 | 79.4 | 75.0 | 72.0 | 69.8 | 68.3 | 49.5 | 37.3 | 22.1 | 17.6 | 12.2 |
| | 100.0 | 99.4 | 99.1 | 89.0 | 83.1 | 78.9 | 75.9 | 73.3 | 72.3 | 52.9 | 39.1 | 22.6 | 18.2 | 13.0 |
| | 100.0 | 100.0 | 97.3 | 81.9 | 74.8 | 69.8 | 66.3 | 63.5 | 62.7 | 49.2 | 35.7 | 20.6 | 16.5 | 11.7 |
| AVE | NA | 99.80 | 98.68 | 85.44 | 79.12 | 74.58 | 71.39 | 68.87 | 67.78 | 50.54 | 37.37 | 21.80 | 17.42 | 12.32 |
| STDEV | NA | 0.35 | 1.20 | 3.58 | 4.19 | 4.61 | 4.82 | 4.94 | 4.85 | 2.04 | 1.69 | 1.07 | 0.87 | 0.65 |
| %RSD | NA | 0.35 | 1.22 | 4.19 | 5.30 | 6.18 | 6.76 | 7.17 | 7.15 | 4.04 | 4.51 | 4.89 | 4.97 | 5.28 |

The Triplicate Applies To The Following Samples

| Client ID | Date Sampled | Date Extracted | Date Complete | QA Ratio (95-105) | Data Qualifiers | Pipette Portion (5.0-25.0g) |
|-----------------|--------------|----------------|---------------|-------------------|-----------------|-----------------------------|
| MS002-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 96.8 | | 6.6 |
| | 5/15/2012 | 5/18/2012 | 5/25/2012 | 97.7 | | 7.0 |
| | 5/15/2012 | 5/18/2012 | 5/25/2012 | 98.6 | | 6.1 |
| MS110-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 100.8 | | 5.4 |
| MS011-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 98.8 | SS | 2.5 |
| MS012-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 99.1 | | 7.5 |
| MS013-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 100.5 | | 6.7 |
| MS014-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 102.0 | | 5.0 |
| MS015-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 101.3 | | 6.0 |
| MS016-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 98.5 | | 5.9 |
| MS017-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 99.9 | SS | 3.1 |
| MS018-SS-120515 | 5/15/2012 | 5/18/2012 | 5/25/2012 | 98.6 | | 10.5 |

* ARI Internal QA limits = 95-105%

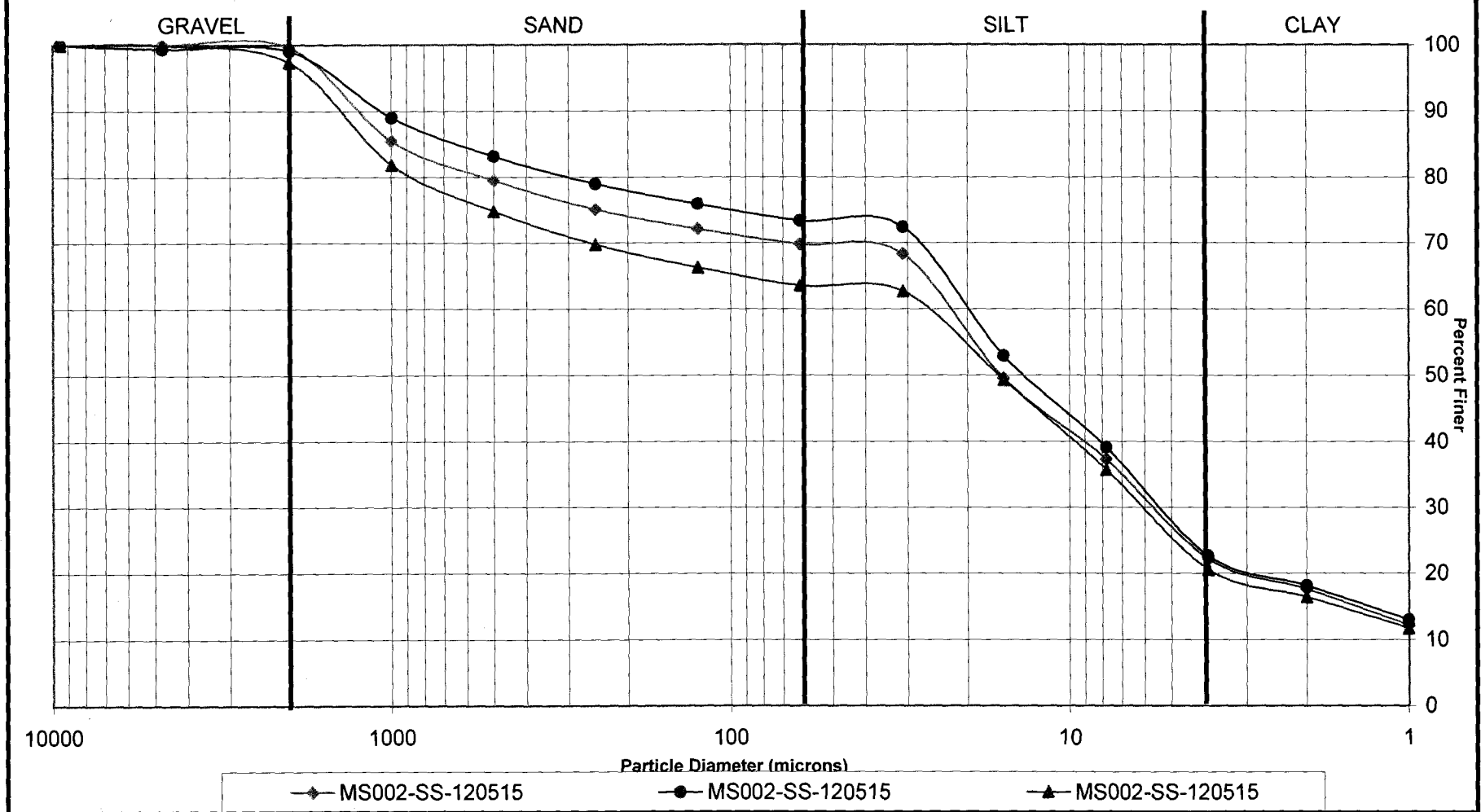
Notes to the Testing:

- Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

UU52:00372

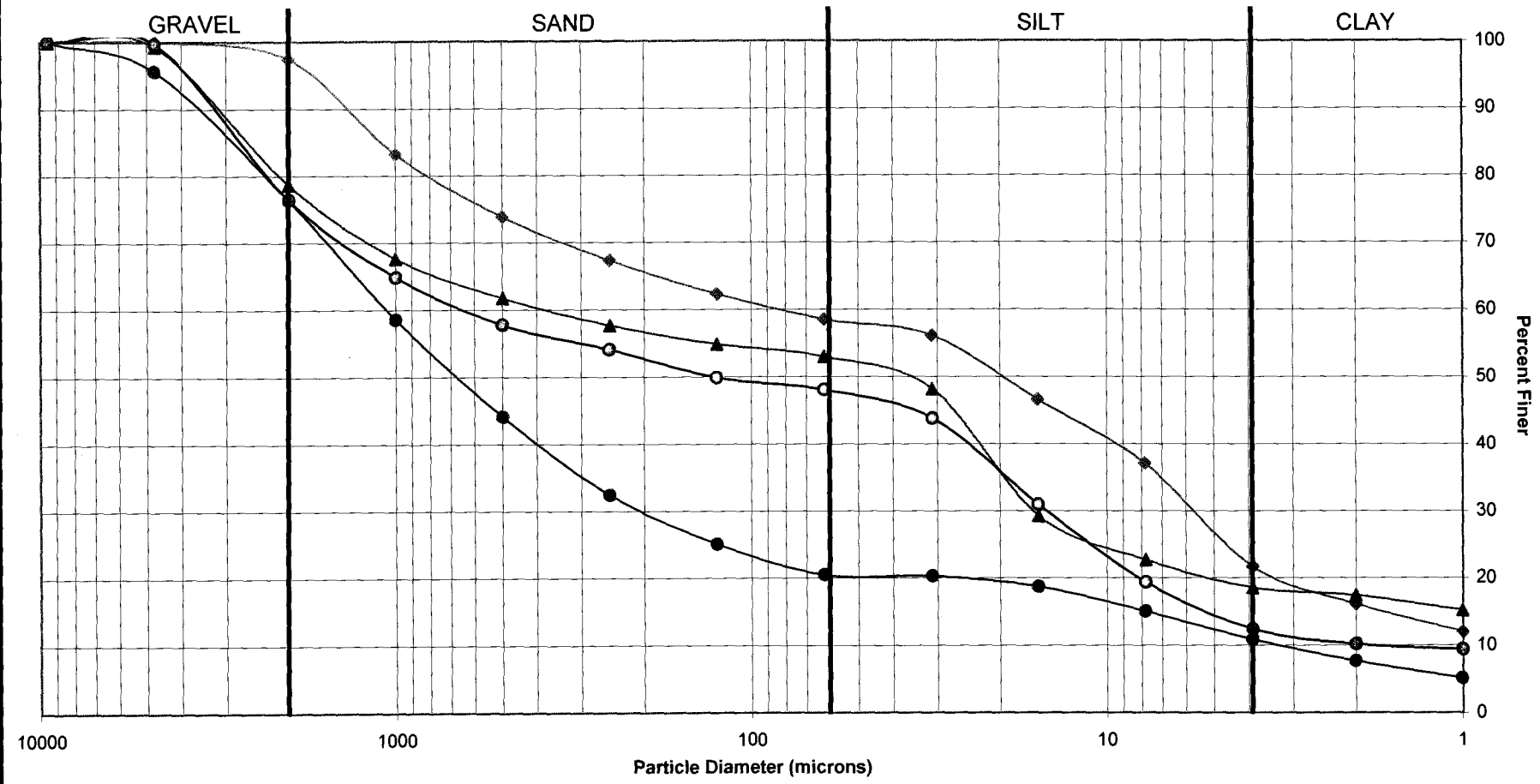
PSEP Grain Size Distribution

Triplicate Sample Plot



US2: 00373

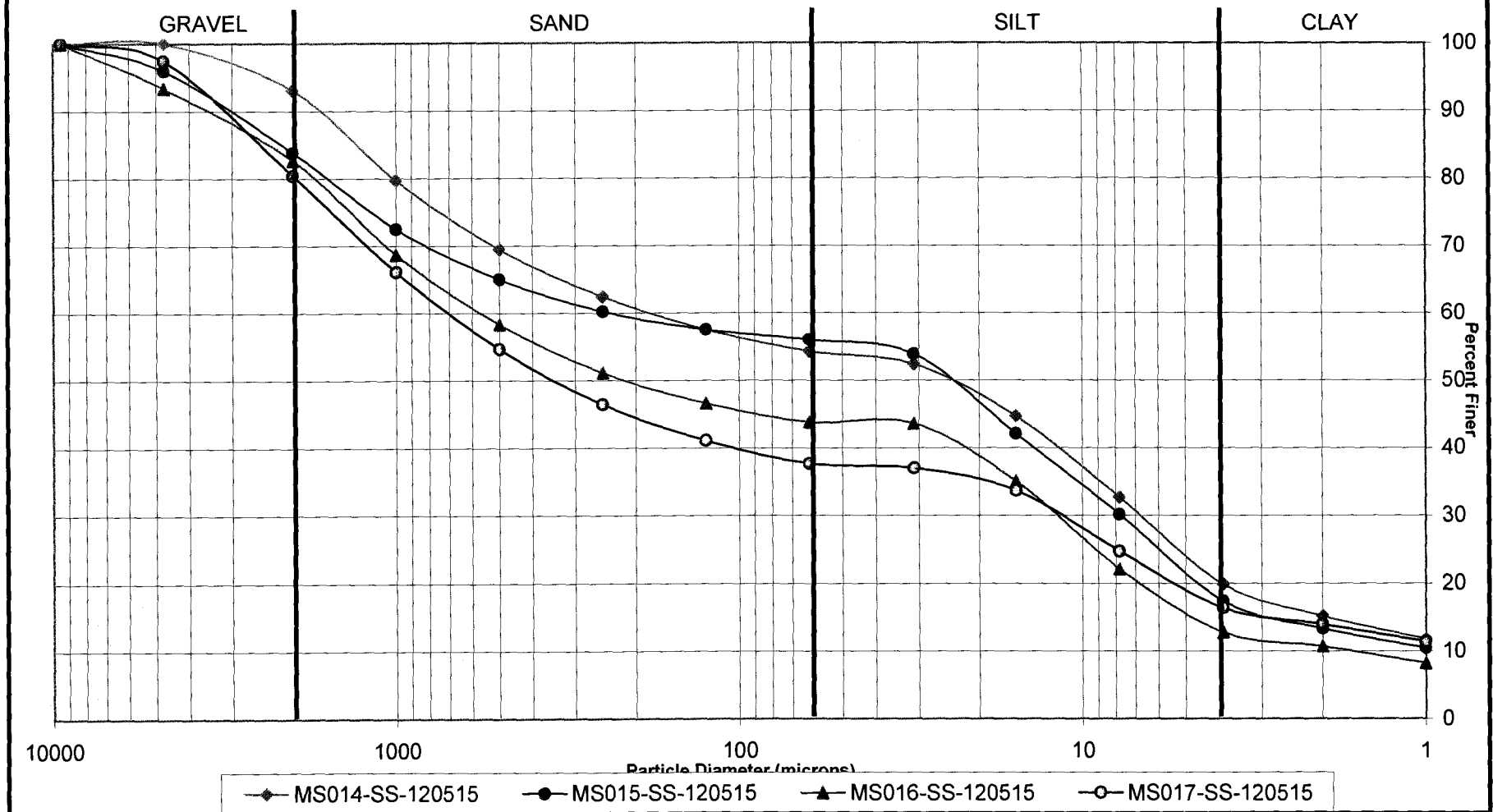
PSEP Grain Size Distribution



US2:00374

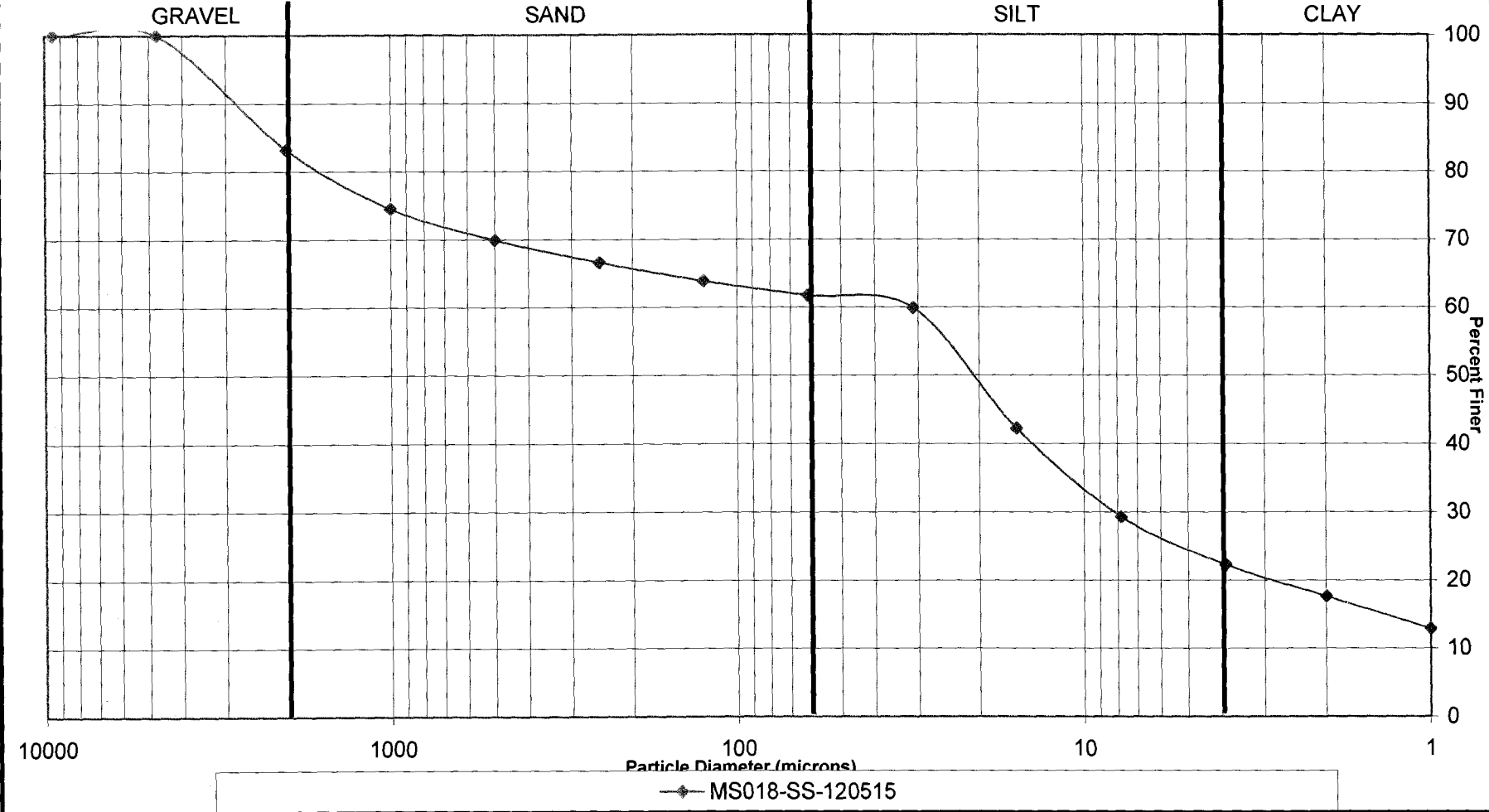
- ◆ MS110-SS-120515
- MS011-SS-120515
- ▲ MS012-SS-120515
- MS013-SS-120515

PSEP Grain Size Distribution



U52:00375

PSEP Grain Size Distribution



US2: 00376

Total Solids

ARI Job ID: UU52, UU62

UU52 : 00377

Extractions Total Solids-extts
Data By: Alex Choeng
Created: 5/16/12

Worklist: 1682
Analyst: AC
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

| | ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|----|-------------------------------------|----------------|---------------|---------------|----------|----|
| 1. | UU52B 12-8894 MS101-SS-120515 | 1.13 | 11.68 | 2.16 | 9.76 | NR |
| 2. | UU52C 12-8895 MS002-SS-120515 | 1.14 | 12.09 | 2.26 | 10.2 | NR |
| 3. | UU52D 12-8896 MS003-SS-120515 | 1.14 | 11.81 | 2.13 | 9.28 | NR |
| 4. | UU52E 12-8897 MS004-SS-120515 | 1.13 | 12.65 | 2.23 | 9.55 | NR |
| 5. | UU52F 12-8898 MS005-SS-120515 | 1.14 | 11.67 | 2.08 | 8.93 | NR |
| 6. | UU52G 12-8899 MS006-SS-120515 | 1.14 | 11.99 | 2.14 | 9.22 | NR |
| 7. | UU52H 12-8900 MS007-SS-120515 | 1.12 | 13.33 | 3.09 | 16.1 | NR |
| 8. | UU52I 12-8901 MS008-SS-120515 | 1.14 | 11.32 | 2.26 | 11.0 | NR |
| 9. | UU52J 12-8902 MS009-SS-120515 | 1.13 | 12.50 | 2.25 | 9.85 | NR |

Extractions Total Solids-extts
Data By: Alex Choeng
Created: 5/16/12

Worklist: 1682
Analyst: AC
Comments:

Oven ID: φ15

Balance ID: B139298002

Samples In: Date: 5-16-12 Time: _____ Temp: _____ Analyst: AC

Samples Out: Date: 5/17/12 Time: 4:22 Temp: 102 °C Analyst: _____

| ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|--|----------------|---------------|---------------|----------|----|
| 1. UU52B 12-8894 MS101-SS-120515 | <u>1.13</u> | <u>11.68</u> | <u>2.16g</u> | | NR |
| 2. UU52C 12-8895 MS002-SS-120515 | <u>1.14</u> | <u>12.09</u> | <u>2.26g</u> | | NR |
| 3. UU52D 12-8896 MS003-SS-120515 | <u>1.14</u> | <u>11.81</u> | <u>2.13g</u> | | NR |
| 4. UU52E 12-8897 MS004-SS-120515 | <u>1.13</u> | <u>12.65</u> | <u>2.23g</u> | | NR |
| 5. UU52F 12-8898 MS005-SS-120515 | <u>1.14</u> | <u>11.67</u> | <u>2.18g</u> | | NR |
| 6. UU52G 12-8899 MS006-SS-120515 | <u>1.14</u> | <u>11.99</u> | <u>2.14g</u> | | NR |
| 7. UU52H 12-8900 MS007-SS-120515 | <u>1.12</u> | <u>13.33</u> | <u>3.49g</u> | | NR |
| 8. UU52I 12-8901 MS008-SS-120515 | <u>1.14</u> | <u>11.32</u> | <u>2.26g</u> | | NR |
| 9. UU52J 12-8902 MS009-SS-120515 | <u>1.13</u> | <u>12.58</u> | <u>2.25g</u> | | NR |
| 10. UU52K 12-8903 MS010-SS-120515 | | | | | NR |

NOT For
30 OE
5/17/12

Extractions Total Solids-extts
Data By: Warren P. Woodard
Created: 5/17/12

Worklist: 2060
Analyst: WPW
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

| ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|--|----------------|---------------|---------------|----------|----|
| 1. UU52A 12-8893 MS001-SS-120515 | 1.15 | 13.57 | 2.35 | 9.66 | NR |

Extractions Total Solids-exttts
Data By: Warren P. Woodard
Created: 5/17/12

Worklist: 2060
Analyst: WPW
Comments:

Oven ID: 015

Balance ID: B139298002

Samples In: Date: 5/17/12 Time: ^{ww 5/17/12} ~~10:15~~ ^{15:55} Temp: 106°c Analyst: WW

Samples Out: Date: 5/18/12 Time: 07:14 Temp: 102 Analyst: AL

| ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|--|----------------|---------------|---------------|----------|----|
| 1. UU52A 12-8893 MS001-SS-120515 | <u>1.15g</u> | <u>13.57g</u> | <u>2.35g</u> | | NR |

**Semivolatile Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: UU52, UU62



8270 BAN PSDDA-Soil/Sediment
Microwave (3546) (SOP # 3304S)

Preparation Test BAN PSDDA # 6 (BANSDMP)

PSDDA (20ppb)

ARI Job No(s) uu52

Page 1 of 1

Batch set up by: JH

| Bottle # | Extraction Requirements | Weight Extracted (eq. to 10g dry wt) | (Opt/REQ) GPC (1:1) 1 or 2 Y/N | Final Effective Volume | Volume to Lab | Comments | Verify Client ID Analyst/Date |
|--------------|-------------------------|--------------------------------------|---------------------------------|------------------------|----------------|---|---|
| | <u>uu52</u> MBS | 10g | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | (Use 5g Pre-Deactivated Sodium Sulfate for Blanks) | <u>RR</u> <u>5/22/12</u> Microwave |
| | <u>↓</u> SBS | 10g | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | (Use 5g Pre-Deactivated Sodium Sulfate for Blanks) | <u>NL</u> <u>5/23/12</u> |
| | SBS Dup. | 10g | (1:1) <u>Y/N</u> | 1mL | 1mL | (Use 5g Pre-Deactivated Sodium Sulfate for Blanks) | Analyst/Date |
| <u>5</u> | <u>uu52 A</u> | <u>10g</u> <u>104.26</u> | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | (Use 5g Pre-Deactivated Sodium Sulfate for Blanks) | KD 80-85°C |
| <u>5</u> | <u>B</u> | <u>103.22</u> | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | | <u>YL</u> <u>5/23/12</u> |
| <u>5</u> | <u>C</u> | <u>99.09</u> | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | | Analyst/Date |
| <u>5</u> | <u>D</u> | <u>108.47</u> | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | | TurboVap 103 |
| <u>5</u> | <u>E</u> | <u>105.11</u> | (1:1) <u>Y/N</u> <u>5/24/12</u> | 1mL | 1mL | | <u>CSZ</u> <u>5/24/12</u> Analyst/Date |
| <u>5</u> | <u>F</u> | <u>113.54</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | GPC Prep Filter (1:1) |
| <u>5</u> | <u>G</u> | <u>109.43</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | |
| <u>5</u> | <u>H</u> | <u>63.41</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | <u>CSZ</u> <u>5/24/12</u> Analyst/Date |
| <u>5</u> | <u>Hms</u> | <u>63.10</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | Post GPC KD 80-85°C |
| <u>5</u> | <u>Hmsd</u> | <u>63.14</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | <u>RR</u> |
| <u>5</u> | <u>I</u> | <u>91.40</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | <u>5/25/12</u> Analyst/Date |
| <u>5</u> | <u>↓ J</u> | <u>102.09</u> | (1:1) <u>Y/N</u> | 1mL | 1mL | | TurboVap 103 |
| Analyst/Date | | | <u>ww</u> | <u>5/24/12</u> | <u>5/25/12</u> | <u>5/25/12</u> | Analyst/Date <u>5/25/12</u> |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|--------------------------------------|-------------------|------------------------|-----------------|-----------------|-----------|-----------|
| Surrogate | A (1975-1) | 100/150µg/mL | 50µL | 7/05/12 | <u>ww</u> | <u>TH</u> |
| Full List Spike (Freezer) | 7 (1926-2) | 100µg/mL | 50µL | 5/31/12 | <u>ww</u> | <u>TH</u> |
| Base Spike | 56 (1952-3) | 200µg/mL | 50µL | 8/14/12 | <u>ww</u> | <u>TH</u> |
| Acid Spike | 38 (1926-3) | 100/200µg/mL | 50µL | 6/19/12 | <u>ww</u> | <u>TH</u> |
| QLS Spike (14 in freezer) | 14 () | 10-100µg/mL | 20µL | | | |

Extraction Time: 20:55

Balance ID: B139248002

SPECIAL INSTRUCTIONS: Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. Note: do not fill vessel more than 2/3rd full. Some samples may require two vessels. 3. Add 1:1 DCM/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in cold water. 7. Decant 1:1 DCM/ACE into Erlenmeyer flask with sodium sulfate in the bottom and funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using DCM only (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD (large drying column with pre-deactivated glasswool-Blanks=5g of sulfate) to 5mL at 80- 85°C. 12. GPC Optional. 13. TurboVap. 14. IF NO GPC: TurboVap to 3mL add 2mL Hexane. TurboVap to Final Volume and vial in DCM. 15. (After GPC): KD at 80-85°. 16. TurboVap. 17. Vial in DCM.

A. Need Total Solids Y/N

B. Archive/Freeze Y/N



ARI Job No.: UU52

Client ID: Anchor QEA, LLC

Parameter: BAN PSDDA

Client Project: Jeld Wen Maulsby Marsh

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|--|--------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= | AC 5-16-12 |
| <input type="checkbox"/> Standing Water Decanted (Not shared)= | ↓ |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= <u>B < 5% sticks D=30% grass/sticks E=10% grass</u> <u>h=30% i=30%</u> | AC 5-16-12 |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>B-</u> | |
| <input checked="" type="checkbox"/> Other (Details)= <u>UU52 - A - J samples investigated? Spills then JD</u> <u>split into multi vessels prior to microwave (see samples)</u> <u>combined after microwave</u> | MS/23/12 |
| <u>microwaved #1 samples A-E microwaved #2 samples F-J</u> | MS/23/12 |
| Aqueous: | |
| <input type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |



Preparation Test BAN # 2 (BANWLI)

ARI Job No(s) 4462, 4468, 4466 Page 1 of 1

In-House (1.0-10.0ppb)

Batch set up by: SE

| Bottle # | Extraction Requirements | Volume Extracted | Disassemble Liq/Liq (Mantle #) | DryVap Module # Y/N | Final Effective Volume | Volume to Lab | Comments | Verify Client ID |
|--------------|-------------------------|------------------|--------------------------------|---------------------|------------------------|-------------------|----------|----------------------|
| | <u>4462</u> MBW | 500mL | <u>21</u> | # Y/N | 0.5mL | 0.5mL | | <u>AC</u> |
| | SBW | 500mL | <u>22</u> | # Y/N | 0.5mL | 0.5mL | | |
| | SBW Dup | 500mL | <u>23</u> | # Y/N | 0.5mL | 0.5mL | | |
| | QLS | 500mL | <u>25</u> | # Y/N | 0.5mL | 0.5mL | | <u>S-21-12</u> |
| | <u>J</u> | 500mL | <u>26</u> | # Y/N | 0.5mL | 0.5mL | | |
| | <u>K</u> | 500mL | <u>27</u> | # Y/N | 0.5mL | 0.5mL | | Analyst/Date |
| <u>12</u> | <u>4468 A</u> | 500mL | <u>28</u> | # Y/N | 0.5mL | 0.5mL | | KD 80-85°C Y/N |
| <u>11</u> | <u>4466 A</u> | 500mL | <u>29</u> | # Y/N | 0.5mL | 0.5mL | | |
| <u>9</u> | <u>B</u> | 500mL | <u>30</u> | # Y/N | 0.5mL | 0.5mL | | |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | <u>YL</u> |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | <u>5/22/12</u> |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | Analyst/Date |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | TurboVap 023 |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | <u>AC</u> |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | <u>S-23-12</u> |
| | | 500mL | | # Y/N | 0.5mL | 0.5mL | | |
| Analyst/Date | <u>AC 5-21-12</u> | | <u>ML 22/12</u> | | <u>AC 5-23-12</u> | <u>AC 5-23-12</u> | | Analyst/Date |

| Standard | Standard ID | Concentration | Volume | Expiration/Date | Analyst | Witness |
|------------------------------|-----------------------------|---------------|---------------------------|-----------------|-----------|-----------|
| Surrogate | <u>A (1975-1)</u> | 100/150µg/mL | 125µL | <u>7/5/12</u> | <u>AR</u> | <u>AC</u> |
| Full List Spike (Freezer) | <u>7 (1926-2)</u> | 100µg/mL | 125µL | <u>5/31/12</u> | <u>AR</u> | <u>AC</u> |
| Base Spike | <u>56 (1952-3)</u> | 200µg/mL | 125µL | <u>8/14/12</u> | <u>AR</u> | <u>AC</u> |
| Acid Spike | <u>38 (1926-3)</u> | 100/200µg/mL | 125µL | <u>6/19/12</u> | <u>AR</u> | <u>AC</u> |
| QLS Spike (Freezer) | <u>14 (1901-1)</u> | 10-100µg/mL | 50µL | <u>6/21/12</u> | <u>AR</u> | <u>AC</u> |
| Extraction Time: <u>1:48</u> | Liq/Liq Start: <u>16:20</u> | | Liq/Liq Stop: <u>8:58</u> | | | |

SPECIAL INSTRUCTIONS: 1. Add ~200mL DCM to Liq/Liq. 2. Add 500mL sample. 3. Add surr/spk.
4. Adjust Acid (pH <2) using 1:1 Sulfuric Acid. (1/4 pipet for blanks & 1/2 pipet for samples). Stir to mix. Verify pH! Let sit 10 minutes. Verify pH again. 5. Extract minimum 8 hrs. 6. DryVap to 0.5mL or KD (NO drying column) to 8mL at 80°.
7. (If KD)=TurboVap to 0.5mL. 8. Vial in DCM.

A. Archive Y/N



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: UU 62

Client ID: Anchor QEA LLC

Parameter: BAN

Client Project: Jeld Wen - Maulsby Mar

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|-------------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= | |
| <input type="checkbox"/> Standing Water Decanted (Not shared)= | |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| | |
| Aqueous: | |
| <input checked="" type="checkbox"/> No Anomalies <u>J, K</u> | <u>AL 5-21-12</u> |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Other (Details)= | |
| | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |
| | |
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| | |

**Semivolatile Raw Data
Initial Calibration**

ARI Job ID: UU52, UU62



Initial Calibration Notes GC/MS SVOA

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Instrument: NT-4 NT-6 NT-8 NT-10 NT11 NT12

Curve Date(s): 5/26/12 Internal Standard ID 1875-1 Expiration 7/15/12

| | | | |
|-------------------------------|-----------------|-------------------------------|-----------------|
| DFTPP Tune Meets Criteria? | <u>YES</u> / NO | Minimum Response Factors Met/ | <u>YES</u> / NO |
| DDT Breakdown <20%? | <u>YES</u> / NO | ICV Exceeding ±20%? | <u>YES</u> / NO |
| Peak Tailing Factor ≤2? | <u>YES</u> / NO | ICV Exceeding ±30%? | <u>YES</u> / NO |
| ICal acceptable? | <u>YES</u> / NO | Linear Fits Used? | <u>YES</u> / NO |
| Q flag applied? | <u>YES</u> / NO | Quadratic Fits Used? | <u>YES</u> / NO |
| Manual Integrations for ICal? | <u>YES</u> / NO | Calibration Points Dropped? | <u>YES</u> / NO |
| Spectral Library Updated? | <u>YES</u> / NO | | |

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|-----------------|---------------|-----------------|------------------|---------------|----------------|
| <u>Supercal</u> | <u>1949-2</u> | <u>12/19/12</u> | <u>UPLC</u> | <u>1941-1</u> | <u>7/27/12</u> |
| | <u>1950-1</u> | <u>10/27/12</u> | | <u>1940-1</u> | <u>7/27/12</u> |
| | <u>1891-2</u> | <u>6/1/12</u> | | <u>1932-2</u> | <u>7/6/12</u> |
| | <u>1892-1</u> | <u>7/5/12</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Detail problems, corrective actions and/or other pertinent information below:

Benzoic Acid } Quadratic fit
Hexachlorocyclopentadiene }
2,4 Dinitrophenol } low point dropped
PEP }

ICV: Benzyl alcohol, 2,4 Dinitrophenol, 3,3-Dichlorobenzidine

Analyst: YZ Aricinu, Benzidine above 30% Date: 5/29/12

Reviewer: _____ Date: _____

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 5/26/12 Analysis: ABN Analyst: VJ/YZ
 GC Program: ABN2 Column No: 227815 Column Type: ZB5 msi
 Instrument Tune (.U or .CT.): 11/2/64 EM Voltage: 1800
 Calibration File: DF0514 Curve Date: 5/26/12 Injection Vol.: 1 ul

| IS/SS | Ical/Ccal | LCS/ICV |
|---------------|-----------------------------|---------------|
| <u>1875-1</u> | <u>1949-2</u> <u>1891-2</u> | <u>1941-1</u> |
| | <u>1950-1</u> <u>1892-1</u> | <u>1940-1</u> |
| | | <u>1932-2</u> |
| | | |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20120526.b

| Time | Filename | LabID | ClientID | DF | |
|------|-----------------|----------|--------------|----|--|
| 1 | 1044 df0526.d | DFTPP | DFTPP | 1 | NO ISTDS FOUND |
| 2 | 1059 ic0526a.d | ABN5 | | 1 | 8.86 189516 11.50 730932 15.37 420698 18.63 638950 23.71 645065 26.10 650033 24.79 1016118 |
| 3 | 1136 ic0526b.d | ABN20 | | 1 | 8.86 184424 21.50 732078 15.38 416049 18.64 604660 23.71 638131 26.11 642084 24.80 1045968 |
| 4 | 1213 ic0526c.d | ABN.2 | | 1 | 8.86 196685 11.50 765616 15.37 413229 18.63 646258 23.70 644080 26.10 645156 24.79 952925 |
| 5 | 1250 ic0526d.d | ABN10 | | 1 | 8.86 182402 11.50 714951 15.38 396335 18.64 598080 23.71 620456 26.10 621376 24.79 977954 |
| 6 | 1327 ic0526e.d | ABN.5 | | 1 | 8.86 190457 11.50 743799 15.37 404393 18.63 632241 23.70 634764 26.10 624951 24.79 934301 |
| 7 | 1405 ic0526f.d | ABN2.5 | | 1 | 8.86 187226 11.50 736534 15.37 398626 18.63 624933 23.70 619154 26.10 625787 24.79 927369 |
| 8 | 1442 ic0526g.d | ABN1.0 | | 1 | 8.86 193887 11.50 750391 15.37 411692 18.63 635080 23.70 638910 26.10 628310 24.79 937949 |
| 9 | 1519 icv0526.d | ICV-5 | | 1 | 8.86 249364 11.50 989810 15.37 545323 18.63 840695 23.71 872921 26.10 859333 24.79 1354341 |
| 10 | 1556 uu52mb.d | UU52MBS1 | UU52MBS1 | 1 | 8.86 192270 11.50 755212 15.36 409923 18.63 652568 23.70 628746 24.79 911710 26.10 575994 |
| 11 | 1634 uu52ab.d | UU52LCS1 | UU52LCS1 | 1 | 8.86 180960 11.50 713226 15.37 402827 18.63 613172 23.70 610564 24.79 927500 26.10 601200 |
| 12 | 1711 uu52a.d | UU52A | MS001-SS-120 | 3 | 8.86 192479 11.50 766868 15.37 424558 18.64 586032 23.71 664578 24.79 1081857 26.11 673821 |
| 13 | 1748 uu52b.d | UU52B | MS101-SS-120 | 3 | 8.86 191331 11.50 774622 15.38 431955 18.64 601035 23.72 668327 24.80 1085453 26.12 667061 |
| 14 | 1825 uu52c.d | UU52C | MS002-SS-120 | 3 | 8.86 189793 11.50 762840 15.38 421087 18.64 644641 23.72 673614 24.80 1081717 26.12 665077 |
| 15 | 1902 uu52d.d | UU52D | MS003-SS-120 | 3 | 8.86 195684 11.50 781696 15.38 433584 18.64 608068 23.72 705866 24.80 1095300 26.12 688484 |
| 16 | 1939 uu52e.d | UU52E | MS004-SS-120 | 3 | 8.86 197248 11.50 788940 15.38 430674 18.64 660353 23.72 700903 24.80 1104559 26.12 683374 |
| 17 | 2016 uu52f.d | UU52F | MS005-SS-120 | 3 | 8.86 190373 11.51 742174 15.39 431594 18.66 643967 23.73 721119 24.81 1107167 26.14 669438 |
| 18 | 2054 uu52g.d | UU52G | MS006-SS-120 | 3 | 8.86 189614 11.51 736251 15.38 426687 18.65 605251 23.72 696152 24.81 1081407 26.13 658886 |
| 19 | 2131 uu52h.d | UU52H | MS007-SS-120 | 3 | 8.86 194227 11.51 756334 15.39 437900 18.66 626572 23.73 703620 24.81 1121633 26.13 665896 |
| 20 | 2208 uu52hms.d | UU52HMS | MS007-SS-120 | 3 | 8.86 189708 11.51 749764 15.39 426739 18.66 614981 23.73 691706 24.81 1104162 26.13 671591 |
| 21 | 2245 uu52hmsd.d | UU52HMSD | MS007-SS-120 | 3 | 8.86 190489 11.50 741504 15.39 417132 18.66 622626 23.73 711179 24.81 1127612 26.13 667595 |

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

YZ 5/31/12

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| | | | | | | |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ID: RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
| FILENAME: ic0526a | ic0526b | ic0526c | ic0526d | ic0526e | ic0526f | ic0526g |
| INJ.DATE: 26-MAY-2012 | 26-MAY-2012 | 26-MAY-2012 | 26-MAY-2012 | 26-MAY-2012 | 26-MAY-2012 | 26-MAY-2012 |
| INJ.TIME: 10:59 | 11:36 | 12:13 | 12:50 | 13:27 | 14:05 | 14:42 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| \$ 1 2-Fluorophenol | 6.537 | 6.544 | 6.537 | 6.537 | 6.537 | 6.537 | 6.537 | 6.537 | 3.537-9.537 | 6.538 | 0.003 |
| 186 Carbaryl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.620 | 15.620-21.620 | +++++ | +++++ |
| 179 n-Decane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.672 | 5.673-11.672 | +++++ | +++++ |
| 180 n-Octadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.599 | 14.599-20.599 | +++++ | +++++ |
| 169 4-tert-Butylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.120 | 18.120-24.120 | +++++ | +++++ |
| 170 N,N-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.015 | 16.015-22.015 | +++++ | +++++ |
| 171 2,3-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.090 | 17.090-23.090 | +++++ | +++++ |
| 172 2,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.317 | 16.317-22.317 | +++++ | +++++ |
| 173 2,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.482 | 20.482-26.482 | +++++ | +++++ |
| 174 2,6-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.348 | 16.348-22.348 | +++++ | +++++ |
| 175 3,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.090 | 17.090-23.090 | +++++ | +++++ |
| 176 3,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.967 | 16.967-22.967 | +++++ | +++++ |
| 177 p-Benzoquinone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.790 | 4.790-10.790 | +++++ | +++++ |
| 168 Pentachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.914 | 12.914-18.914 | +++++ | +++++ |
| 145 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.212 | 44.212-50.212 | +++++ | +++++ |
| 146 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.746 | 44.746-50.746 | +++++ | +++++ |
| 147 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 48.216 | 45.216-51.216 | +++++ | +++++ |

Reviewer 1
Reviewer 2

Date: 5/30/12
Date: _____

06390

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m

Batch File: /chem1/nt10.i/20120526.b

Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.281 | 44.281-50.281 | +++++ | +++++ |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.387 | 40.387-46.387 | +++++ | +++++ |
| 150 DCBP | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.989 | 47.989-53.989 | +++++ | +++++ |
| 138 Chlorobenzilate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 67.733 | 64.733-70.733 | +++++ | +++++ |
| 139 Isodrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.067 | 62.067-68.067 | +++++ | +++++ |
| 140 Diallate A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 141 Diallate B | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 142 1,2-Dibromo-3-Chloropr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.917 | 46.917-52.917 | +++++ | +++++ |
| 135 2,3,5,6-Tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.767 | 12.767-18.767 | +++++ | +++++ |
| 136 2,3,4,5-tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.317 | 36.317-42.317 | +++++ | +++++ |
| \$ 137 d8-1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.445 | 0.000-5.445 | +++++ | +++++ |
| * 134 Di-n-octylphthalate-d4 | 24.794 | 24.802 | 24.794 | 24.794 | 24.794 | 24.794 | 24.794 | 24.794 | 21.794-27.794 | 24.795 | 0.003 |
| 133 Butylatedhydroxytoluen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.397 | 12.397-18.397 | +++++ | +++++ |
| 132 3,6-Dimethylphenanthre | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.450 | 62.450-68.450 | +++++ | +++++ |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 64.400 | 61.400-67.400 | +++++ | +++++ |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 62.100 | 59.100-65.100 | +++++ | +++++ |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.912 | 51.912-57.912 | +++++ | +++++ |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.212 | 51.212-57.212 | +++++ | +++++ |
| 127 2-Isopropyl-naphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 57.650 | 54.650-60.650 | +++++ | +++++ |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.750 | 53.750-59.750 | +++++ | +++++ |
| 144 alpha-Terpineol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.799 | 8.799-14.799 | +++++ | +++++ |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.166 | 49.166-55.166 | +++++ | +++++ |

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 50.617 | 47.617-53.617 | ++++ | ++++ |
| 123 Acetophenone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 10.308 | 7.308-13.308 | ++++ | ++++ |
| 122 Furfuraldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 43.467 | 40.467-46.467 | ++++ | ++++ |
| 143 1,4-Dioxane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 2.697 | 0.000-5.697 | ++++ | ++++ |
| 121 Quinoline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 54.500 | 51.500-57.500 | ++++ | ++++ |
| 120 2,3,4,6-Tetrachlorophe | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 13.541 | 10.541-16.541 | ++++ | ++++ |
| 178 2-Benzyl-4-Chloropheno | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 18.644 | 15.644-21.644 | ++++ | ++++ |
| 119 7,12-Dimethylbenz(a)an | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 47.069 | 44.069-50.069 | ++++ | ++++ |
| 118 Triphenyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 21.283 | 18.283-24.283 | ++++ | ++++ |
| 117 Butyl Diphenyl Phospha | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 16.750 | 13.750-19.750 | ++++ | ++++ |
| 116 Dibutyl Phenyl Phospha | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 18.520 | 15.520-21.520 | ++++ | ++++ |
| 115 Tributyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 16.732 | 13.732-19.732 | ++++ | ++++ |
| 114 Beta-Pinene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 48.950 | 45.950-51.950 | ++++ | ++++ |
| 113 Diphenyl Oxide | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 14.438 | 11.438-17.438 | ++++ | ++++ |
| 112 Biphenyl | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 14.368 | 11.368-17.368 | ++++ | ++++ |
| 111 Azobenzene (1,2-DP-Hyd | 16.926 | 16.941 | 16.926 | 16.934 | 16.926 | 16.926 | 16.926 | 16.926 | 13.926-19.926 | 16.929 | 0.006 |
| 110 Tetrachloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 16.564 | 13.564-19.564 | ++++ | ++++ |
| 109 3,4,5-Trichloroguaiaco | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 14.525 | 11.525-17.525 | ++++ | ++++ |
| 181 3,4,6-Trichloroguaiaco | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 14.680 | 11.680-17.680 | ++++ | ++++ |
| 108 4,5,6-Trichloroguaiaco | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 15.829 | 12.829-18.829 | ++++ | ++++ |
| 184 3,4-Dichloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 12.599 | 9.599-15.599 | ++++ | ++++ |
| 107 4,5-Dichloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 13.574 | 10.574-16.574 | ++++ | ++++ |
| 182 4,6-Dichloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 13.605 | 10.605-16.605 | ++++ | ++++ |
| 185 4-Chloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.261 | 8.261-14.261 | ++++ | ++++ |

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.231 | 6.231-12.231 | +++++ | +++++ |
| 105 1-methylnaphthalene | 13.275 | 13.283 | 13.275 | 13.283 | 13.275 | 13.275 | 13.275 | 13.275 | 10.275-16.275 | 13.278 | 0.004 |
| 151 1,2,4,5-Tetrachloroben | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.499 | 8.499-14.499 | +++++ | +++++ |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 30.943 | 27.943-33.943 | +++++ | +++++ |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.466 | 24.466-30.466 | +++++ | +++++ |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.712 | 22.712-28.712 | +++++ | +++++ |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.505 | 24.505-30.505 | +++++ | +++++ |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.783 | 23.783-29.783 | +++++ | +++++ |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.451 | 24.451-30.451 | +++++ | +++++ |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.952 | 21.952-27.952 | +++++ | +++++ |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.480 | 22.480-28.480 | +++++ | +++++ |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.346 | 17.346-23.346 | +++++ | +++++ |
| 161 1,2,3-Trichloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 36.246 | 33.246-39.246 | +++++ | +++++ |
| 162 1,2,3,4-Tetrachloronap | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 37.506 | 34.506-40.506 | +++++ | +++++ |
| 163 1,2,3,5,8-Pentachloron | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.893 | 35.893-41.893 | +++++ | +++++ |
| 164 1,2,3,4,6,7-Hexachloro | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.681 | 36.681-42.681 | +++++ | +++++ |
| 165 1,2,3,4,5,6,7-Heptachl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 41.123 | 38.123-44.123 | +++++ | +++++ |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.253 | 39.253-45.253 | +++++ | +++++ |
| 167 2,2',4,4',5-Pentabromo | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.033 | 39.033-45.033 | +++++ | +++++ |
| \$ 2 Phenol-d5 | 8.237 | 8.244 | 8.237 | 8.237 | 8.237 | 8.237 | 8.229 | 8.237 | 5.237-11.237 | 8.237 | 0.004 |
| 3 Phenol | 8.260 | 8.268 | 8.260 | 8.260 | 8.252 | 8.252 | 8.252 | 8.260 | 5.260-11.260 | 8.258 | 0.006 |
| 4 Bis(2-Chloroethyl)ethe | 8.399 | 8.407 | 8.399 | 8.407 | 8.399 | 8.399 | 8.399 | 8.399 | 5.399-11.399 | 8.401 | 0.004 |
| \$ 5 2-Chlorophenol-d4 | 8.476 | 8.484 | 8.476 | 8.484 | 8.476 | 8.476 | 8.476 | 8.476 | 5.476-11.476 | 8.478 | 0.004 |

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--------|---------|
| 6 2-Chlorophenol | 8.507 | 8.515 | 8.507 | 8.515 | 8.507 | 8.507 | 8.507 | 8.507 | 5.507-11.507 | 8.509 | 0.004 |
| 7 1,3-Dichlorobenzene | 8.786 | 8.793 | 8.786 | 8.786 | 8.786 | 8.786 | 8.786 | 8.786 | 5.786-11.786 | 8.787 | 0.003 |
| * 8 1,4-Dichlorobenzene-d4 | 8.855 | 8.863 | 8.855 | 8.855 | 8.856 | 8.855 | 8.856 | 8.855 | 5.855-11.855 | 8.857 | 0.003 |
| 9 1,4-Dichlorobenzene | 8.886 | 8.894 | 8.886 | 8.894 | 8.887 | 8.886 | 8.887 | 8.886 | 5.886-11.886 | 8.889 | 0.004 |
| \$ 10 1,2-Dichlorobenzene-d4 | 9.236 | 9.243 | 9.236 | 9.236 | 9.236 | 9.236 | 9.236 | 9.236 | 6.236-12.236 | 9.237 | 0.003 |
| 11 Benzyl alcohol | 9.166 | 9.181 | 9.166 | 9.174 | 9.166 | 9.166 | 9.166 | 9.166 | 6.166-12.166 | 9.169 | 0.006 |
| 12 1,2-Dichlorobenzene | 9.267 | 9.267 | 9.259 | 9.267 | 9.267 | 9.267 | 9.267 | 9.267 | 6.267-12.267 | 9.266 | 0.003 |
| 13 2-Methylphenol | 9.430 | 9.438 | 9.430 | 9.438 | 9.430 | 9.430 | 9.430 | 9.430 | 6.430-12.430 | 9.432 | 0.004 |
| 14 2,2'-oxybis(1-Chloropr | 9.492 | 9.500 | 9.492 | 9.492 | 9.492 | 9.492 | 9.492 | 9.492 | 6.492-12.492 | 9.493 | 0.003 |
| 15 4-Methylphenol | 9.725 | 9.740 | 9.725 | 9.733 | 9.725 | 9.725 | 9.725 | 9.725 | 6.725-12.725 | 9.728 | 0.006 |
| 16 N-Nitroso-di-n-propyla | 9.764 | 9.779 | 9.764 | 9.771 | 9.764 | 9.764 | 9.756 | 9.764 | 6.764-12.764 | 9.766 | 0.007 |
| 17 Hexachloroethane | 9.888 | 9.888 | 9.888 | 9.888 | 9.888 | 9.888 | 9.888 | 9.888 | 6.888-12.888 | 9.888 | 0.000 |
| \$ 18 Nitrobenzene-d5 | 10.027 | 10.035 | 10.020 | 10.028 | 10.020 | 10.027 | 10.020 | 10.027 | 7.027-13.027 | 10.025 | 0.006 |
| 19 Nitrobenzene | 10.058 | 10.074 | 10.059 | 10.066 | 10.059 | 10.059 | 10.059 | 10.058 | 7.058-13.058 | 10.062 | 0.006 |
| 20 Isophorone | 10.547 | 10.563 | 10.547 | 10.555 | 10.540 | 10.547 | 10.540 | 10.547 | 7.547-13.547 | 10.549 | 0.008 |
| 21 2-Nitrophenol | 10.733 | 10.741 | 10.733 | 10.741 | 10.733 | 10.733 | 10.733 | 10.733 | 7.733-13.733 | 10.735 | 0.004 |
| 22 2,4-Dimethylphenol | 10.833 | 10.849 | 10.833 | 10.841 | 10.833 | 10.833 | 10.833 | 10.833 | 7.833-13.833 | 10.837 | 0.006 |
| 23 Bis(2-Chloroethoxy)met | 11.033 | 11.041 | 11.034 | 11.034 | 11.034 | 11.034 | 11.034 | 11.033 | 8.033-14.033 | 11.035 | 0.003 |
| 24 Benzoic acid | 11.087 | 11.249 | 10.972 | 11.157 | 10.972 | 11.041 | 10.995 | 11.087 | 8.087-14.087 | 11.068 | 0.105 |
| 25 2,4-Dichlorophenol | 11.234 | 11.242 | 11.234 | 11.234 | 11.226 | 11.234 | 11.226 | 11.234 | 8.234-14.234 | 11.233 | 0.005 |
| 26 1,2,4-Trichlorobenzene | 11.419 | 11.419 | 11.411 | 11.419 | 11.411 | 11.419 | 11.411 | 11.419 | 8.419-14.419 | 11.416 | 0.004 |
| * 27 Naphthalene-d8 | 11.504 | 11.504 | 11.496 | 11.504 | 11.496 | 11.496 | 11.496 | 11.504 | 8.504-14.504 | 11.500 | 0.004 |
| 28 Naphthalene | 11.542 | 11.550 | 11.543 | 11.543 | 11.543 | 11.543 | 11.543 | 11.542 | 8.542-14.542 | 11.544 | 0.003 |
| 29 4-Chloroaniline | 11.705 | 11.720 | 11.705 | 11.712 | 11.705 | 11.705 | 11.705 | 11.705 | 8.705-14.705 | 11.708 | 0.006 |

16688 : 2577

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene | 11.952 | 11.952 | 11.944 | 11.952 | 11.952 | 11.952 | 11.944 | 11.952 | 8.952-14.952 | 11.950 | 0.004 |
| 31 4-Chloro-3-methylpheno | 12.780 | 12.788 | 12.780 | 12.780 | 12.780 | 12.772 | 12.772 | 12.780 | 9.780-15.780 | 12.779 | 0.005 |
| 32 2-Methylnaphthalene | 13.043 | 13.051 | 13.043 | 13.043 | 13.043 | 13.043 | 13.043 | 13.043 | 10.043-16.043 | 13.044 | 0.003 |
| 33 Hexachlorocyclopentadi | 13.554 | 13.554 | 13.554 | 13.554 | 13.546 | 13.554 | 13.554 | 13.554 | 10.554-16.554 | 13.553 | 0.003 |
| 34 2,4,6-Trichlorophenol | 13.732 | 13.740 | 13.732 | 13.732 | 13.724 | 13.724 | 13.724 | 13.732 | 10.732-16.732 | 13.730 | 0.006 |
| 35 2,4,5-Trichlorophenol | 13.809 | 13.817 | 13.817 | 13.809 | 13.809 | 13.809 | 13.809 | 13.809 | 10.809-16.809 | 13.812 | 0.004 |
| 36 2-Fluorobiphenyl | 13.902 | 13.910 | 13.895 | 13.902 | 13.902 | 13.902 | 13.902 | 13.902 | 10.902-16.902 | 13.902 | 0.004 |
| 37 2-Chloronaphthalene | 14.103 | 14.111 | 14.104 | 14.104 | 14.104 | 14.103 | 14.104 | 14.103 | 11.103-17.103 | 14.105 | 0.003 |
| 38 2-Nitroaniline | 14.405 | 14.421 | 14.398 | 14.413 | 14.398 | 14.398 | 14.398 | 14.405 | 11.405-17.405 | 14.404 | 0.009 |
| 39 Dimethylphthalate | 14.893 | 14.908 | 14.885 | 14.893 | 14.885 | 14.893 | 14.885 | 14.893 | 11.893-17.893 | 14.892 | 0.008 |
| 40 Acenaphthylene | 15.032 | 15.040 | 15.032 | 15.032 | 15.032 | 15.032 | 15.032 | 15.032 | 12.032-18.032 | 15.033 | 0.003 |
| 41 2,6-Dinitrotoluene | 15.032 | 15.048 | 15.025 | 15.032 | 15.025 | 15.025 | 15.025 | 15.032 | 12.032-18.032 | 15.030 | 0.009 |
| 42 Acenaphthene-d10 | 15.373 | 15.380 | 15.373 | 15.380 | 15.373 | 15.373 | 15.373 | 15.373 | 12.373-18.373 | 15.375 | 0.004 |
| 43 3-Nitroaniline | 15.326 | 15.342 | 15.319 | 15.334 | 15.319 | 15.326 | 15.319 | 15.326 | 12.326-18.326 | 15.326 | 0.009 |
| 44 Acenaphthene | 15.442 | 15.450 | 15.442 | 15.450 | 15.442 | 15.442 | 15.442 | 15.442 | 12.442-18.442 | 15.444 | 0.004 |
| 45 2,4-Dinitrophenol | 15.558 | 15.581 | 15.605 | 15.566 | 15.566 | 15.550 | 15.558 | 15.558 | 12.558-18.558 | 15.569 | 0.018 |
| 46 Dibenzofuran | 15.798 | 15.813 | 15.798 | 15.806 | 15.798 | 15.798 | 15.798 | 15.798 | 12.798-18.798 | 15.801 | 0.006 |
| 47 4-Nitrophenol | 15.728 | 15.751 | 15.759 | 15.736 | 15.752 | 15.728 | 15.736 | 15.728 | 12.728-18.728 | 15.742 | 0.012 |
| 48 2,4-Dinitrotoluene | 15.898 | 15.914 | 15.891 | 15.906 | 15.891 | 15.891 | 15.891 | 15.898 | 12.898-18.898 | 15.897 | 0.009 |
| 49 Fluorene | 16.563 | 16.571 | 16.563 | 16.571 | 16.563 | 16.563 | 16.563 | 16.563 | 13.563-19.563 | 16.566 | 0.004 |
| 50 Diethylphthalate | 16.470 | 16.494 | 16.463 | 16.478 | 16.463 | 16.470 | 16.463 | 16.470 | 13.470-19.470 | 16.472 | 0.011 |
| 51 4-Chlorophenyl-phenyle | 16.579 | 16.586 | 16.579 | 16.587 | 16.579 | 16.579 | 16.579 | 16.579 | 13.579-19.579 | 16.581 | 0.004 |
| 52 4-Nitroaniline | 16.687 | 16.725 | 16.687 | 16.702 | 16.687 | 16.687 | 16.687 | 16.687 | 13.687-19.687 | 16.695 | 0.015 |
| 53 4,6-Dinitro-2-methylph | 16.802 | 16.826 | 16.803 | 16.810 | 16.795 | 16.795 | 16.795 | 16.802 | 13.802-19.802 | 16.804 | 0.011 |

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORTMethod File: /chem1/nt10.i/20120526.b/ABN.m
Batch File: /chem1/nt10.i/20120526.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine | 16.856 | 16.872 | 16.857 | 16.864 | 16.857 | 16.857 | 16.857 | 16.856 | 13.856-19.856 | 16.860 | 0.006 |
| \$ 55 2,4,6-Tribromophenol | 17.142 | 17.149 | 17.142 | 17.150 | 17.142 | 17.142 | 17.142 | 17.142 | 14.142-20.142 | 17.144 | 0.004 |
| 56 4-Bromophenyl-phenylet | 17.658 | 17.666 | 17.651 | 17.658 | 17.659 | 17.658 | 17.659 | 17.658 | 14.658-20.658 | 17.658 | 0.004 |
| 57 Hexachlorobenzene | 17.975 | 17.983 | 17.975 | 17.975 | 17.976 | 17.975 | 17.976 | 17.975 | 14.975-20.975 | 17.977 | 0.003 |
| 58 Pentachlorophenol | 18.378 | 18.386 | 18.394 | 18.378 | 18.386 | 18.378 | 18.386 | 18.378 | 15.378-21.378 | 18.384 | 0.006 |
| * 59 Phenanthrene-d10 | 18.633 | 18.641 | 18.633 | 18.641 | 18.633 | 18.633 | 18.633 | 18.633 | 15.633-21.633 | 18.636 | 0.004 |
| 60 Phenanthrene | 18.687 | 18.695 | 18.680 | 18.688 | 18.680 | 18.680 | 18.680 | 18.687 | 15.687-21.687 | 18.684 | 0.006 |
| 61 Anthracene | 18.780 | 18.788 | 18.780 | 18.788 | 18.780 | 18.780 | 18.780 | 18.780 | 15.780-21.780 | 18.783 | 0.004 |
| 62 Carbazole | 19.144 | 19.152 | 19.144 | 19.144 | 19.144 | 19.144 | 19.144 | 19.144 | 16.144-22.144 | 19.145 | 0.003 |
| 63 Di-n-butylphthalate | 20.010 | 20.011 | 20.011 | 20.011 | 20.011 | 20.011 | 20.003 | 20.010 | 17.010-23.010 | 20.009 | 0.003 |
| 64 Fluoranthene | 21.101 | 21.109 | 21.101 | 21.109 | 21.102 | 21.101 | 21.102 | 21.101 | 18.101-24.101 | 21.104 | 0.004 |
| 65 Pyrene | 21.519 | 21.527 | 21.519 | 21.527 | 21.519 | 21.519 | 21.519 | 21.519 | 18.519-24.519 | 21.521 | 0.004 |
| \$ 66 Terphenyl-d14 | 21.844 | 21.844 | 21.844 | 21.844 | 21.837 | 21.844 | 21.837 | 21.844 | 18.844-24.844 | 21.842 | 0.004 |
| 67 Butylbenzylphthalate | 22.781 | 22.789 | 22.781 | 22.789 | 22.781 | 22.781 | 22.781 | 22.781 | 19.781-25.781 | 22.783 | 0.004 |
| 68 Benzo(a)anthracene | 23.679 | 23.687 | 23.679 | 23.679 | 23.679 | 23.679 | 23.679 | 23.679 | 20.679-26.679 | 23.680 | 0.003 |
| * 69 Chrysene-d12 | 23.710 | 23.710 | 23.702 | 23.710 | 23.703 | 23.702 | 23.703 | 23.710 | 20.710-26.710 | 23.706 | 0.004 |
| 70 3,3'-Dichlorobenzidine | 23.656 | 23.671 | 23.656 | 23.664 | 23.656 | 23.656 | 23.656 | 23.656 | 20.656-26.656 | 23.659 | 0.006 |
| 71 Chrysene | 23.749 | 23.764 | 23.749 | 23.757 | 23.749 | 23.749 | 23.749 | 23.749 | 20.749-26.749 | 23.752 | 0.006 |
| 72 bis(2-Ethylhexyl)phtha | 23.818 | 23.826 | 23.819 | 23.826 | 23.819 | 23.819 | 23.819 | 23.818 | 20.818-26.818 | 23.821 | 0.004 |
| 73 Di-n-octylphthalate | 24.802 | 24.809 | 24.802 | 24.802 | 24.802 | 24.802 | 24.802 | 24.802 | 21.802-27.802 | 24.803 | 0.003 |
| 74 Benzo(b)fluoranthene | 25.452 | 25.460 | 25.444 | 25.452 | 25.444 | 25.444 | 25.444 | 25.452 | 22.452-28.452 | 25.449 | 0.006 |
| 75 Benzo(k)fluoranthene | 25.483 | 25.498 | 25.483 | 25.491 | 25.483 | 25.483 | 25.483 | 25.483 | 22.483-28.483 | 25.486 | 0.006 |
| 187 Total Benzofluoranthen | 25.483 | 25.498 | 25.483 | 25.491 | 25.483 | 25.483 | 25.483 | 25.483 | 22.483-28.483 | 25.486 | 0.006 |
| 76 Benzo(a)pyrene | 26.002 | 26.017 | 26.002 | 26.002 | 26.002 | 26.002 | 26.002 | 26.002 | 23.002-29.002 | 26.004 | 0.006 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt10.i/20120526.b

ARI Job No.: ABN5 Method: ABN.m Instrument: nt10.i Date: 26-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|-----------|--------|----------|----|---|
| 1059 | ic0526a.d | ABN5 | | 1 | NO MANUAL INTEGRATION |
| 1136 | ic0526b.d | ABN20 | | 1 | NO MANUAL INTEGRATION |
| 1213 | ic0526c.d | ABN.2 | | 1 | Benzyl alcohol, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, |
| 1250 | ic0526d.d | ABN10 | | 1 | NO MANUAL INTEGRATION |
| 1327 | ic0526e.d | ABN.5 | | 1 | Benzyl alcohol, 2,4-Dinitrophenol, |
| 1405 | ic0526f.d | ABN2.5 | | 1 | NO MANUAL INTEGRATION |
| 1442 | ic0526g.d | ABN1.0 | | 1 | NO MANUAL INTEGRATION |

16600:2577

Averaged

Report Date : 26-May-2012 15:50

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
End Cal Date : 26-MAY-2012 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt10.i/20120526.b/ABN.m
Cal Date : 26-May-2012 15:47 van
Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt10.i/20120526.b/ic0526c.d
- Level 2: /chem1/nt10.i/20120526.b/ic0526e.d
- Level 3: /chem1/nt10.i/20120526.b/ic0526g.d
- Level 4: /chem1/nt10.i/20120526.b/ic0526f.d
- Level 5: /chem1/nt10.i/20120526.b/ic0526a.d
- Level 6: /chem1/nt10.i/20120526.b/ic0526d.d
- Level 7: /chem1/nt10.i/20120526.b/ic0526b.d

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|-------------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 186 Carbaryl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 179 n-Decane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 180 n-Octadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 169 4-tert-Butylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 170 N,N-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 171 2,3-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

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 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|-----------------------------------|--------------------|---------|---------|---------|---------|---------|---------|---------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.29168 1.10678 | 1.21488 | 1.24456 | 1.24502 | 1.18683 | 1.20842 | 1.21402 | 4.779 |
| 110 Tetrachloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 109 3,4,5-Trichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 181 3,4,6-Trichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 108 4,5,6-Trichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 184 3,4-Dichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 107 4,5-Dichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 182 4,6-Dichloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |
| 185 4-Chloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ <- |

Analytical Resources, Inc.

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 105 1-methylnaphthalene | 0.69053 | 0.69006 | 0.69964 | 0.71032 | 0.74060 | 0.73836 | | |
| | 0.73504 | | | | | | 0.71493 | 3.170 |
| 151 1,2,4,5-Tetrachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |

Analytical Resources, Inc.

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Start Cal Date : 26-MAY-2012 10:59
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 Level 1 | 0.50000 Level 2 | 1.000 Level 3 | 2.500 Level 4 | 5.000 Level 5 | 10.000 Level 6 | 20.000 Level 7 | RRF | % RSD |
|------------------------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|---------|-------|
| 167 2,2',4,4',5-Pentabromobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 3 Phenol | 1.93782 1.84111 | 1.78241 | 1.79890 | 1.83686 | 1.94466 | 1.85875 | | 1.85722 | 3.392 |
| 4 Bis(2-Chloroethyl)ether | 1.46051 1.32810 | 1.38677 | 1.40901 | 1.37934 | 1.35886 | 1.35721 | | 1.38283 | 3.093 |
| 6 2-Chlorophenol | 1.59117 1.73628 | 1.56214 | 1.60149 | 1.59927 | 1.64063 | 1.74942 | | 1.64006 | 4.510 |
| 7 1,3-Dichlorobenzene | 1.71981 1.54816 | 1.64778 | 1.66204 | 1.65240 | 1.65734 | 1.60670 | | 1.64203 | 3.231 |
| 9 1,4-Dichlorobenzene | 1.67008 1.54228 | 1.61418 | 1.60209 | 1.61372 | 1.59176 | 1.58483 | | 1.60271 | 2.401 |
| 11 Benzyl alcohol | 0.79060 0.83216 | 0.75427 | 0.68638 | 0.75631 | 0.80699 | 0.83518 | | 0.78027 | 6.740 |
| 12 1,2-Dichlorobenzene | 1.58456 1.50567 | 1.56907 | 1.61577 | 1.55958 | 1.56974 | 1.54243 | | 1.56383 | 2.192 |
| 13 2-Methylphenol | 1.53698 1.45988 | 1.41390 | 1.45396 | 1.44476 | 1.46574 | 1.47126 | | 1.46378 | 2.553 |

Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 0.53070 0.49076 | 0.52169 | 0.50970 | 0.49884 | 0.51514 | 0.49675 | 0.50908 | 2.842 |
| 15 4-Methylphenol | 1.51979 1.50849 | 1.51828 | 1.52051 | 1.54947 | 1.53207 | 1.54139 | 1.52714 | 0.945 |
| 16 N-Nitroso-di-n-propylamine | 0.85751 0.82905 | 0.88217 | 0.88208 | 0.88036 | 0.85602 | 0.85073 | 0.86256 | 2.325 |
| 17 Hexachloroethane | 0.61611 0.63717 | 0.61683 | 0.61533 | 0.61819 | 0.62403 | 0.63110 | 0.62268 | 1.366 |
| 19 Nitrobenzene | 0.37089 0.34346 | 0.35013 | 0.35505 | 0.34631 | 0.35216 | 0.35110 | 0.35273 | 2.515 |
| 20 Isophorone | 0.64743 0.71877 | 0.61491 | 0.66071 | 0.65386 | 0.67901 | 0.68000 | 0.66495 | 4.862 |
| 21 2-Nitrophenol | 0.21671 0.22968 | 0.20611 | 0.21765 | 0.22034 | 0.23433 | 0.23211 | 0.22242 | 4.548 |
| 22 2,4-Dimethylphenol | 0.34704 0.34185 | 0.34026 | 0.36562 | 0.35606 | 0.36445 | 0.35120 | 0.35235 | 2.890 |
| 23 Bis(2-Chloroethoxy)methane | 0.41334 0.38389 | 0.39088 | 0.40919 | 0.38692 | 0.39819 | 0.38969 | 0.39601 | 2.869 |

Analytical Resources, Inc.

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Start Cal Date : 26-MAY-2012 10:59
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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 24 Benzoic acid | ++++ 0.27005 | 0.09377 | 0.13003 | 0.18809 | 0.23596 | 0.25300 | 0.19515 | 36.371 |
| 25 2,4-Dichlorophenol | 0.29664 0.33599 | 0.33637 | 0.34059 | 0.34593 | 0.35431 | 0.36260 | 0.33892 | 6.204 |
| 26 1,2,4-Trichlorobenzene | 0.34022 0.30297 | 0.33179 | 0.32911 | 0.31462 | 0.32535 | 0.31448 | 0.32265 | 3.920 |
| 28 Naphthalene | 1.01892 0.99794 | 0.98976 | 1.02001 | 0.98738 | 1.02274 | 1.02205 | 1.00840 | 1.587 |
| 29 4-Chloroaniline | 0.42321 0.45438 | 0.40373 | 0.46985 | 0.48491 | 0.45332 | 0.45549 | 0.44927 | 6.114 |
| 30 Hexachlorobutadiene | 0.17092 0.16653 | 0.17389 | 0.17330 | 0.17339 | 0.18139 | 0.17507 | 0.17350 | 2.580 |
| 31 4-Chloro-3-methylphenol | 0.27800 0.32433 | 0.27685 | 0.30318 | 0.30088 | 0.32058 | 0.32488 | 0.30410 | 6.776 |
| 32 2-Methylnaphthalene | 0.68928 0.71436 | 0.67454 | 0.69249 | 0.69355 | 0.72209 | 0.72089 | 0.70103 | 2.594 |
| 33 Hexachlorocyclopentadiene | ++++ 0.34105 | 0.11438 | 0.17125 | 0.23350 | 0.27883 | 0.31960 | 0.24310 | 36.117 |

Qual

Qual

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 Level 1 | 0.50000 Level 2 | 1.000 Level 3 | 2.500 Level 4 | 5.000 Level 5 | 10.000 Level 6 | RRF | % RSD |
|--------------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|---------|-------|
| | 20.000 Level 7 | | | | | | | |
| 34 2,4,6-Trichlorophenol | 0.36549 0.40888 | 0.36162 | 0.38350 | 0.40696 | 0.41230 | 0.42053 | 0.39418 | 6.039 |
| 35 2,4,5-Trichlorophenol | 0.37272 0.44725 | 0.37175 | 0.41544 | 0.42942 | 0.45764 | 0.45956 | 0.42197 | 8.851 |
| 37 2-Chloronaphthalene | 1.18617 1.16137 | 1.15537 | 1.21364 | 1.19177 | 1.18318 | 1.20605 | 1.18536 | 1.806 |
| 38 2-Nitroaniline | 0.27665 0.28790 | 0.27060 | 0.28017 | 0.28833 | 0.28524 | 0.29564 | 0.28350 | 2.943 |
| 39 Dimethylphthalate | 1.28781 1.10195 | 1.23703 | 1.27665 | 1.25445 | 1.22652 | 1.21880 | 1.22903 | 5.004 |
| 40 Acenaphthylene | 1.85098 1.71476 | 1.79087 | 1.80389 | 1.80942 | 1.78241 | 1.82303 | 1.79648 | 2.362 |
| 41 2,6-Dinitrotoluene | 0.28468 0.29106 | 0.28754 | 0.30858 | 0.30612 | 0.30537 | 0.31266 | 0.29943 | 3.778 |
| 43 3-Nitroaniline | 0.33023 0.32669 | 0.33054 | 0.34327 | 0.34560 | 0.33584 | 0.35434 | 0.33807 | 2.961 |
| 44 Acenaphthene | 1.09150 1.06860 | 1.05515 | 1.08275 | 1.09356 | 1.09053 | 1.10299 | 1.08358 | 1.517 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 45 2,4-Dinitrophenol | ++++ 0.22394 | 0.03405 | 0.07702 | 0.13789 | 0.18678 | 0.21686 | 0.14609 | 53.124 |
| 46 Dibenzofuran | 1.56097 1.57012 | 1.55749 | 1.61928 | 1.61975 | 1.57536 | 1.60948 | 1.58749 | 1.742 |
| 47 4-Nitrophenol | 0.10653 0.13872 | 0.11184 | 0.12375 | 0.13675 | 0.14215 | 0.15101 | 0.13011 | 12.670 |
| 48 2,4-Dinitrotoluene | 0.33964 0.38262 | 0.36432 | 0.39526 | 0.39871 | 0.41047 | 0.41320 | 0.38632 | 6.861 |
| 49 Fluorene | 1.27900 1.18598 | 1.20760 | 1.22333 | 1.21133 | 1.20161 | 1.20576 | 1.21637 | 2.450 |
| 50 Diethylphthalate | 1.23815 1.08612 | 1.22983 | 1.21878 | 1.23534 | 1.20929 | 1.16965 | 1.19817 | 4.559 |
| 51 4-Chlorophenyl-phenylether | 0.59904 0.54735 | 0.57024 | 0.58557 | 0.58172 | 0.57842 | 0.58070 | 0.57758 | 2.756 |
| 52 4-Nitroaniline | 0.30121 0.34993 | 0.35825 | 0.37660 | 0.35473 | 0.33940 | 0.33793 | 0.34544 | 6.779 |
| 53 4,6-Dinitro-2-methylphenol | ++++ 0.17970 | 0.10673 | 0.13877 | 0.16176 | 0.17907 | 0.18626 | 0.15872 | 19.364 |

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Disabled
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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 0.56377 0.49201 | 0.55022 | 0.56120 | 0.53574 | 0.53680 | 0.52692 | 0.53809 | 4.550 |
| 56 4-Bromophenyl-phenylether | 0.21951 0.21231 | 0.20081 | 0.21443 | 0.21141 | 0.21685 | 0.22361 | 0.21413 | 3.381 |
| 57 Hexachlorobenzene | 0.24619 0.24098 | 0.25325 | 0.25223 | 0.24875 | 0.24201 | 0.24485 | 0.24689 | 1.927 |
| 58 Pentachlorophenol | ++++ 0.14340 | 0.05177 | 0.07801 | 0.09799 | 0.12954 | 0.13754 | 0.10637 | 34.505 |
| 60 Phenanthrene | 1.06051 1.07540 | 0.97569 | 1.03599 | 1.00825 | 1.02336 | 1.04091 | 1.03144 | 3.215 |
| 61 Anthracene | 1.06960 1.10413 | 1.03049 | 1.06853 | 1.05383 | 1.11319 | 1.10262 | 1.07748 | 2.817 |
| 62 Carbazole | 1.02492 1.01254 | 1.03777 | 1.07002 | 0.99487 | 0.94857 | 0.89007 | 0.99697 | 6.046 |
| 63 Di-n-butylphthalate | 1.33414 1.49795 | 1.27773 | 1.38366 | 1.37095 | 1.47098 | 1.48637 | 1.40311 | 5.993 |
| 64 Fluoranthene | 1.15455 1.24253 | 1.11006 | 1.13082 | 1.13925 | 1.20211 | 1.21842 | 1.17111 | 4.261 |

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 65 Pyrene | 1.20581 1.23141 | 1.15940 | 1.23562 | 1.20914 | 1.24483 | 1.23328 | 1.21707 | 2.395 |
| 67 Butylbenzylphthalate | 0.57732 0.54876 | 0.55533 | 0.57114 | 0.56183 | 0.58390 | 0.55369 | 0.56457 | 2.333 |
| 68 Benzo(a)anthracene | 1.20699 1.13357 | 1.09061 | 1.11889 | 1.09881 | 1.11070 | 1.11657 | 1.12516 | 3.438 |
| 70 3,3'-Dichlorobenzidine | ++++ 0.65445 | 0.63372 | 0.64623 | 0.63929 | 0.58563 | 0.53713 | 0.61607 | 7.400 |
| 71 Chrysene | 0.98916 1.00931 | 0.95229 | 0.99774 | 0.96476 | 1.00552 | 1.00986 | 0.98981 | 2.307 |
| 72 bis(2-Ethylhexyl)phthalate | 0.60670 0.52007 | 0.55059 | 0.53958 | 0.53786 | 0.54429 | 0.54605 | 0.54931 | 4.937 |
| 73 Di-n-octylphthalate | 1.03576 0.94454 | 0.96337 | 0.98665 | 0.95638 | 0.96678 | 0.95873 | 0.97317 | 3.124 |
| 74 Benzo(b)fluoranthene | 1.09905 1.24247 | 1.05571 | 1.10041 | 1.06208 | 1.18164 | 1.12420 | 1.12365 | 5.974 |
| 75 Benzo(k)fluoranthene | 1.27389 1.10821 | 1.28509 | 1.28535 | 1.25133 | 1.19165 | 1.26526 | 1.23726 | 5.286 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 | 0.50000 | 1.000 | 2.500 | 5.000 | 10.000 | RRF | % RSD |
|------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 20.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 187 Total Benzofluoranthenes | 1.12458 1.10396 | 1.09115 | 1.12381 | 1.08314 | 1.11851 | 1.12409 | 1.10989 | 1.555 |
| 76 Benzo(a)pyrene | 1.06539 1.03871 | 0.98413 | 1.03837 | 1.01500 | 1.04753 | 1.05076 | 1.03427 | 2.600 |
| 78 Indeno(1,2,3-cd)pyrene | 1.12137 1.23722 | 1.11892 | 1.17740 | 1.21207 | 1.24880 | 1.25883 | 1.19637 | 4.892 |
| 79 Dibenzo(a,h)anthracene | 0.84993 0.98932 | 0.86647 | 0.93647 | 0.95859 | 0.99213 | 1.00399 | 0.94241 | 6.581 |
| 80 Benzo(g,h,i)perylene | 1.00242 1.05992 | 0.95348 | 0.99998 | 1.02510 | 1.06812 | 1.07231 | 1.02591 | 4.279 |
| 90 N-Nitrosodimethylamine | 0.86183 0.78150 | 0.83324 | 0.83206 | 0.84563 | 0.84431 | 0.82304 | 0.83166 | 3.049 |
| 91 Aniline | 4.08674 3.71782 | 3.96856 | 4.06292 | 3.99679 | 3.98672 | 3.87415 | 3.95624 | 3.176 |
| 92 1,2-Diphenylhydrazine | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 93 Benzidine | 0.47016 0.57927 | 0.46697 | 0.47552 | 0.42523 | 0.33981 | 0.44103 | 0.45686 | 15.622 |

Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 Level 1 | 0.50000 Level 2 | 1.000 Level 3 | 2.500 Level 4 | 5.000 Level 5 | 10.000 Level 6 | RRF | % RSD |
|------------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|---------|-------|
| | 20.000 Level 7 | | | | | | | |
| 96 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 97 Caffeine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 98 Retene | 0.55139 0.59254 | 0.53775 | 0.55210 | 0.55985 | 0.58856 | 0.58501 | 0.56674 | 3.821 |
| 99 Perylene | 1.06737 1.05357 | 1.00429 | 1.04991 | 1.00327 | 1.04442 | 1.05530 | 1.03973 | 2.455 |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 101 Cholesterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 102 beta-Sitosterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 103 Pyridine | 0.73569 0.69810 | 0.69513 | 0.75065 | 0.74068 | 0.69537 | 0.71095 | 0.71808 | 3.303 |
| \$ 1 2-Fluorophenol | 1.37967 1.36950 | 1.38916 | 1.39694 | 1.40122 | 1.41730 | 1.43750 | 1.39876 | 1.642 |

Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van
 Curve Type : Average

| Compound | 0.20000 Level 1 | 0.50000 Level 2 | 1.000 Level 3 | 2.500 Level 4 | 5.000 Level 5 | 10.000 Level 6 | 20.000 Level 7 | RRF | % RSD |
|------------------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|---------|-------|
| \$ 137 d8-1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Phenol-d5 | 1.67567 1.79085 | 1.69701 | 1.70877 | 1.73959 | 1.77639 | 1.80843 | | 1.74239 | 2.918 |
| \$ 5 2-Chlorophenol-d4 | 1.55701 1.52463 | 1.52354 | 1.53700 | 1.49714 | 1.52331 | 1.52306 | | 1.52653 | 1.177 |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.00618 0.99684 | 0.97328 | 1.01684 | 0.99736 | 1.01271 | 1.00671 | | 1.00142 | 1.438 |
| \$ 18 Nitrobenzene-d5 | 0.35681 0.35564 | 0.34705 | 0.36221 | 0.35991 | 0.36634 | 0.36081 | | 0.35840 | 1.707 |
| \$ 36 2-Fluorobiphenyl | 1.42231 1.34814 | 1.38804 | 1.38526 | 1.40503 | 1.35546 | 1.40214 | | 1.38663 | 1.933 |
| \$ 55 2,4,6-Tribromophenol | 0.15415 0.16886 | 0.15709 | 0.16428 | 0.16515 | 0.17168 | 0.17449 | | 0.16510 | 4.494 |
| \$ 66 Terphenyl-d14 | 0.79176 0.71899 | 0.75544 | 0.77467 | 0.77718 | 0.77623 | 0.74269 | | 0.76242 | 3.277 |
| \$ 85 p-Cresol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

'' The curve ''

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

Calibration File Names:

- Level 1: /chem1/nt10.i/20120526.b/ic0526c.d
- Level 2: /chem1/nt10.i/20120526.b/ic0526e.d
- Level 3: /chem1/nt10.i/20120526.b/ic0526g.d
- Level 4: /chem1/nt10.i/20120526.b/ic0526f.d
- Level 5: /chem1/nt10.i/20120526.b/ic0526a.d
- Level 6: /chem1/nt10.i/20120526.b/ic0526d.d
- Level 7: /chem1/nt10.i/20120526.b/ic0526b.d

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|------------------------|---------------|---------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 186 Carbaryl | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 <- |
| 179 n-Decane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 <- |
| 180 n-Octadecane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 <- |
| 169 4-tert-Butylphenol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 <- |

1400:2900

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 116 Dibutyl Phenyl Phosphate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 115 Tributyl Phosphate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 114 Beta-Pinene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 113 Diphenyl Oxide | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 112 Biphenyl | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.29168 1.10678 | 1.21488 | 1.24456 | 1.24502 | 1.18683 | 1.20842 | AVRG | | 1.21402 | | 4.77901 |
| 110 Tetrachloroguaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |

0052:00112

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|--------------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| 106 Guaiacol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| 105 1-methylnaphthalene | 0.69053 0.73504 | 0.69006 | 0.69964 | 0.71032 | 0.74060 | 0.73836 | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 151 1,2,4,5-Tetrachlorobenzene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.71493 | | 3.16988 |
| 152 Benzo(e)pyrene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 153 Chlorpyrifos | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 154 Diazinon | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 155 Kelthane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| | | | | | | | AVRG | | 0.000e+00 | | 0.000e+00 |

0052:00413

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|-----------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 163 1,2,3,5,8-Pentachloronaphthal | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 |
| 164 1,2,3,4,6,7-Hexachloronaphtha | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 |
| 165 1,2,3,4,5,6,7-Heptachloronaph | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 |
| 166 Octachloronaphthalene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 |
| 167 2,2',4,4',5-Pentabromobipheny | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | | 0.000e+00 |
| 3 Phenol | 1.93782 1.84111 | 1.78241 | 1.79890 | 1.83686 | 1.94466 | 1.85875 | AVRG | 1.85722 | | | 3.39231 |
| 4 Bis(2-Chloroethyl)ether | 1.46051 1.32810 | 1.38677 | 1.40901 | 1.37934 | 1.35886 | 1.35721 | AVRG | 1.38283 | | | 3.09264 |

0052:001411

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | %RSD or R ² |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| 6 2-Chlorophenol | 1.59117 1.73628 | 1.56214 | 1.60149 | 1.59927 | 1.64063 | 1.74942 | AVRG | 1.64006 | | 4.51030 |
| 7 1,3-Dichlorobenzene | 1.71981 1.54816 | 1.64778 | 1.66204 | 1.65240 | 1.65734 | 1.60670 | AVRG | 1.64203 | | 3.23056 |
| 9 1,4-Dichlorobenzene | 1.67008 1.54228 | 1.61418 | 1.60209 | 1.61372 | 1.59176 | 1.58483 | AVRG | 1.60271 | | 2.40082 |
| 11 Benzyl alcohol | 0.79060 0.83216 | 0.75427 | 0.68638 | 0.75631 | 0.80699 | 0.83518 | AVRG | 0.78027 | | 6.73992 |
| 12 1,2-Dichlorobenzene | 1.58456 1.50567 | 1.56907 | 1.61577 | 1.55958 | 1.56974 | 1.54243 | AVRG | 1.56383 | | 2.19174 |
| 13 2-Methylphenol | 1.53698 1.45988 | 1.41390 | 1.45396 | 1.44476 | 1.46574 | 1.47126 | AVRG | 1.46378 | | 2.55288 |
| 14 2,2'-oxybis(1-Chloropropane) | 0.53070 0.49076 | 0.52169 | 0.50970 | 0.49884 | 0.51514 | 0.49675 | AVRG | 0.50908 | | 2.84196 |

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 15 4-Methylphenol | 1.51979 1.50849 | 1.51828 | 1.52051 | 1.54947 | 1.53207 | 1.54139 | AVRG | 1.52714 | | | 0.94515 |
| 16 N-Nitroso-di-n-propylamine | 0.85751 0.82905 | 0.88217 | 0.88208 | 0.88036 | 0.85602 | 0.85073 | AVRG | 0.86256 | | | 2.32546 |
| 17 Hexachloroethane | 0.61611 0.63717 | 0.61683 | 0.61533 | 0.61819 | 0.62403 | 0.63110 | AVRG | 0.62268 | | | 1.36641 |
| 19 Nitrobenzene | 0.37089 0.34346 | 0.35013 | 0.35505 | 0.34631 | 0.35216 | 0.35110 | AVRG | 0.35273 | | | 2.51451 |
| 20 Isophorone | 0.64743 0.71877 | 0.61491 | 0.66071 | 0.65386 | 0.67901 | 0.68000 | AVRG | 0.66495 | | | 4.86239 |
| 21 2-Nitrophenol | 0.21671 0.22968 | 0.20611 | 0.21765 | 0.22034 | 0.23433 | 0.23211 | AVRG | 0.22242 | | | 4.54831 |
| 22 2,4-Dimethylphenol | 0.34704 0.34185 | 0.34026 | 0.36562 | 0.35606 | 0.36445 | 0.35120 | AVRG | 0.35235 | | | 2.89029 |

052:0046

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|---------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| 23 Bis(2-Chloroethoxy)methane | 0.41334 0.38389 | 0.39088 | 0.40919 | 0.38692 | 0.39819 | 0.38969 | AVRG | | 0.39601 | | 2.86933 |
| 24 Benzoic acid | ++++ 3954019 | 34874 | 97576 | 346329 | 862339 | 1808839 | QUAD | 0.000e+00 | 4.35066 | -0.12146 | 0.99921 |
| 25 2,4-Dichlorophenol | 0.29664 0.33599 | 0.33637 | 0.34059 | 0.34593 | 0.35431 | 0.36260 | AVRG | | 0.33892 | | 6.20399 |
| 26 1,2,4-Trichlorobenzene | 0.34022 0.30297 | 0.33179 | 0.32911 | 0.31462 | 0.32535 | 0.31448 | AVRG | | 0.32265 | | 3.92022 |
| 28 Naphthalene | 1.01892 0.99794 | 0.98976 | 1.02001 | 0.98738 | 1.02274 | 1.02205 | AVRG | | 1.00840 | | 1.58668 |
| 29 4-Chloroaniline | 0.42321 0.45438 | 0.40373 | 0.46985 | 0.48491 | 0.45332 | 0.45549 | AVRG | | 0.44927 | | 6.11437 |
| 30 Hexachlorobutadiene | 0.17092 0.16653 | 0.17389 | 0.17330 | 0.17339 | 0.18139 | 0.17507 | AVRG | | 0.17350 | | 2.58021 |

21000:2500

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|--------------------|---------|---------|---------|---------|---------|-------|-----------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| 31 4-Chloro-3-methylphenol | 0.27800 0.32433 | 0.27685 | 0.30318 | 0.30088 | 0.32058 | 0.32488 | AVRG | | 0.30410 | | 6.77614 |
| 32 2-Methylnaphthalene | 0.68928 0.71436 | 0.67454 | 0.69249 | 0.69355 | 0.72209 | 0.72089 | AVRG | | 0.70103 | | 2.59425 |
| 33 Hexachlorocyclopentadiene | ++++ 1418921 | 11564 | 35252 | 116347 | 293255 | 633343 | QUAD | 0.000e+00 | 3.52578 | -0.17688 | 0.99896 |
| 34 2,4,6-Trichlorophenol | 0.36549 0.40888 | 0.36162 | 0.38350 | 0.40696 | 0.41230 | 0.42053 | AVRG | | 0.39418 | | 6.03893 |
| 35 2,4,5-Trichlorophenol | 0.37272 0.44725 | 0.37175 | 0.41544 | 0.42942 | 0.45764 | 0.45956 | AVRG | | 0.42197 | | 8.85120 |
| 37 2-Chloronaphthalene | 1.18617 1.16137 | 1.15537 | 1.21364 | 1.19177 | 1.18318 | 1.20605 | AVRG | | 1.18536 | | 1.80578 |
| 38 2-Nitroaniline | 0.27665 0.28790 | 0.27060 | 0.28017 | 0.28833 | 0.28524 | 0.29564 | AVRG | | 0.28350 | | 2.94270 |

01100:250710

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------|---------|---------|---------|---------|---------|---------|-------|-----------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| 39 Dimethylphthalate | 1.28781 | 1.23703 | 1.27665 | 1.25445 | 1.22652 | 1.21880 | | | | | |
| | 1.10195 | | | | | | AVRG | | 1.22903 | | 5.00399 |
| 40 Acenaphthylene | 1.85098 | 1.79087 | 1.80389 | 1.80942 | 1.78241 | 1.82303 | | | | | |
| | 1.71476 | | | | | | AVRG | | 1.79648 | | 2.36222 |
| 41 2,6-Dinitrotoluene | 0.28468 | 0.28754 | 0.30858 | 0.30612 | 0.30537 | 0.31266 | | | | | |
| | 0.29106 | | | | | | AVRG | | 0.29943 | | 3.77761 |
| 43 3-Nitroaniline | 0.33023 | 0.33054 | 0.34327 | 0.34560 | 0.33584 | 0.35434 | | | | | |
| | 0.32669 | | | | | | AVRG | | 0.33807 | | 2.96080 |
| 44 Acenaphthene | 1.09150 | 1.05515 | 1.08275 | 1.09356 | 1.09053 | 1.10299 | | | | | |
| | 1.06860 | | | | | | AVRG | | 1.08358 | | 1.51680 |
| 45 2,4-Dinitrophenol | ++++ | 6885 | 31710 | 137413 | 392895 | 859509 | | | | | |
| | 1863407 | | | | | | QUAD | 0.000e+00 | 5.17724 | -0.16339 | 0.99805 |
| 46 Dibenzofuran | 1.56097 | 1.55749 | 1.61928 | 1.61975 | 1.57536 | 1.60948 | | | | | |
| | 1.57012 | | | | | | AVRG | | 1.58749 | | 1.74156 |

052:0049

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 47 4-Nitrophenol | 0.10653 0.13872 | 0.11184 | 0.12375 | 0.13675 | 0.14215 | 0.15101 | AVRG | 0.13011 | | | 12.67018 |
| 48 2,4-Dinitrotoluene | 0.33964 0.38262 | 0.36432 | 0.39526 | 0.39871 | 0.41047 | 0.41320 | AVRG | 0.38632 | | | 6.86139 |
| 49 Fluorene | 1.27900 1.18598 | 1.20760 | 1.22333 | 1.21133 | 1.20161 | 1.20576 | AVRG | 1.21637 | | | 2.44972 |
| 50 Diethylphthalate | 1.23815 1.08612 | 1.22983 | 1.21878 | 1.23534 | 1.20929 | 1.16965 | AVRG | 1.19817 | | | 4.55852 |
| 51 4-Chlorophenyl-phenylether | 0.59904 0.54735 | 0.57024 | 0.58557 | 0.58172 | 0.57842 | 0.58070 | AVRG | 0.57758 | | | 2.75565 |
| 52 4-Nitroaniline | 0.30121 0.34993 | 0.35825 | 0.37660 | 0.35473 | 0.33940 | 0.33793 | AVRG | 0.34544 | | | 6.77926 |
| 53 4,6-Dinitro-2-methylphenol | ++++ 0.17970 | 0.10673 | 0.13877 | 0.16176 | 0.17907 | 0.18626 | AVRG | 0.15872 | | | 19.36391 |

02100:2577

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|--------------------|---------|---------|---------|---------|---------|-------|-----------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| 54 N-Nitrosodiphenylamine | 0.56377 0.49201 | 0.55022 | 0.56120 | 0.53574 | 0.53680 | 0.52692 | AVRG | | 0.53809 | | 4.54957 |
| 56 4-Bromophenyl-phenylether | 0.21951 0.21231 | 0.20081 | 0.21443 | 0.21141 | 0.21685 | 0.22361 | AVRG | | 0.21413 | | 3.38083 |
| 57 Hexachlorobenzene | 0.24619 0.24098 | 0.25325 | 0.25223 | 0.24875 | 0.24201 | 0.24485 | AVRG | | 0.24689 | | 1.92672 |
| 58 Pentachlorophenol | +++++ 867054 | 8182 | 24770 | 76549 | 206931 | 411314 | QUAD | 0.000e+00 | 7.90524 | -0.66208 | 0.99899 |
| 60 Phenanthrene | 1.06051 1.07540 | 0.97569 | 1.03599 | 1.00825 | 1.02336 | 1.04091 | AVRG | | 1.03144 | | 3.21523 |
| 61 Anthracene | 1.06960 1.10413 | 1.03049 | 1.06853 | 1.05383 | 1.11319 | 1.10262 | AVRG | | 1.07748 | | 2.81670 |
| 62 Carbazole | 1.02492 1.01254 | 1.03777 | 1.07002 | 0.99487 | 0.94857 | 0.89007 | AVRG | | 0.99697 | | 6.04596 |

0052:00421

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
 End Cal Date : 26-MAY-2012 14:42
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|---------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 63 Di-n-butylphthalate | 1.33414 1.49795 | 1.27773 | 1.38366 | 1.37095 | 1.47098 | 1.48637 | AVRG | 1.40311 | | | 5.99287 |
| 64 Fluoranthene | 1.15455 1.24253 | 1.11006 | 1.13082 | 1.13925 | 1.20211 | 1.21842 | AVRG | 1.17111 | | | 4.26094 |
| 65 Pyrene | 1.20581 1.23141 | 1.15940 | 1.23562 | 1.20914 | 1.24483 | 1.23328 | AVRG | 1.21707 | | | 2.39516 |
| 67 Butylbenzylphthalate | 0.57732 0.54876 | 0.55533 | 0.57114 | 0.56183 | 0.58390 | 0.55369 | AVRG | 0.56457 | | | 2.33295 |
| 68 Benzo(a)anthracene | 1.20699 1.13357 | 1.09061 | 1.11889 | 1.09881 | 1.11070 | 1.11657 | AVRG | 1.12516 | | | 3.43783 |
| 70 3,3'-Dichlorobenzidine | ++++ 0.65445 | 0.63372 | 0.64623 | 0.63929 | 0.58563 | 0.53713 | AVRG | 0.61607 | | | 7.39980 |
| 71 Chrysene | 0.98916 1.00931 | 0.95229 | 0.99774 | 0.96476 | 1.00552 | 1.00986 | AVRG | 0.98981 | | | 2.30658 |

JUS2:00122

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | %RSD or R ² |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 20 | | | | | | | | | |
| | Level 7 | | | | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 0.60670 0.52007 | 0.55059 | 0.53958 | 0.53786 | 0.54429 | 0.54605 | AVRG | 0.54931 | | 4.93651 |
| 73 Di-n-octylphthalate | 1.03576 0.94454 | 0.96337 | 0.98665 | 0.95638 | 0.96678 | 0.95873 | AVRG | 0.97317 | | 3.12405 |
| 74 Benzo(b)fluoranthene | 1.09905 1.24247 | 1.05571 | 1.10041 | 1.06208 | 1.18164 | 1.12420 | AVRG | 1.12365 | | 5.97365 |
| 75 Benzo(k)fluoranthene | 1.27389 1.10821 | 1.28509 | 1.28535 | 1.25133 | 1.19165 | 1.26526 | AVRG | 1.23726 | | 5.28550 |
| 187 Total Benzofluoranthenes | 1.12458 1.10396 | 1.09115 | 1.12381 | 1.08314 | 1.11851 | 1.12409 | AVRG | 1.10989 | | 1.55494 |
| 76 Benzo(a)pyrene | 1.06539 1.03871 | 0.98413 | 1.03837 | 1.01500 | 1.04753 | 1.05076 | AVRG | 1.03427 | | 2.59978 |
| 78 Indeno(1,2,3-cd)pyrene | 1.12137 1.23722 | 1.11892 | 1.17740 | 1.21207 | 1.24880 | 1.25883 | AVRG | 1.19637 | | 4.89151 |

0052:00423

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 79 Dibenzo(a,h)anthracene | 0.84993 0.98932 | 0.86647 | 0.93647 | 0.95859 | 0.99213 | 1.00399 | AVRG | | 0.94241 | | 6.58108 |
| 80 Benzo(g,h,i)perylene | 1.00242 1.05992 | 0.95348 | 0.99998 | 1.02510 | 1.06812 | 1.07231 | AVRG | | 1.02591 | | 4.27892 |
| 90 N-Nitrosodimethylamine | 0.86183 0.78150 | 0.83324 | 0.83206 | 0.84563 | 0.84431 | 0.82304 | AVRG | | 0.83166 | | 3.04924 |
| 91 Aniline | 4.08674 3.71782 | 3.96856 | 4.06292 | 3.99679 | 3.98672 | 3.87415 | AVRG | | 3.95624 | | 3.17588 |
| 92 1,2-Diphenylhydrazine | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 93 Benzidine | 0.47016 0.57927 | 0.46697 | 0.47552 | 0.42523 | 0.33981 | 0.44103 | AVRG | | 0.45686 | | 15.62231 |
| 96 p-Cymene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |

0052:00424

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
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 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| 97 Caffeine | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 98 Retene | 0.55139 0.59254 | 0.53775 | 0.55210 | 0.55985 | 0.58856 | 0.58501 | AVRG | | 0.56674 | | 3.82090 |
| 99 Perylene | 1.06737 1.05357 | 1.00429 | 1.04991 | 1.00327 | 1.04442 | 1.05530 | AVRG | | 1.03973 | | 2.45482 |
| 100 3-beta-Coprostanol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 101 Cholesterol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 <- |
| 102 beta-Sitosterol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 103 Pyridine | 0.73569 0.69810 | 0.69513 | 0.75065 | 0.74068 | 0.69537 | 0.71095 | AVRG | | 0.71808 | | 3.30261 |

0052:00125

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20 Level 7 | | | | | | | | | | |
| \$ 1 2-Fluorophenol | 1.37967 1.36950 | 1.38916 | 1.39694 | 1.40122 | 1.41730 | 1.43750 | AVRG | | 1.39876 | | 1.64242 |
| \$ 137 d8-1,4-Dioxane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 ← |
| \$ 2 Phenol-d5 | 1.67567 1.79085 | 1.69701 | 1.70877 | 1.73959 | 1.77639 | 1.80843 | AVRG | | 1.74239 | | 2.91839 |
| \$ 5 2-Chlorophenol-d4 | 1.55701 1.52463 | 1.52354 | 1.53700 | 1.49714 | 1.52331 | 1.52306 | AVRG | | 1.52653 | | 1.17704 |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.00618 0.99684 | 0.97328 | 1.01684 | 0.99736 | 1.01271 | 1.00671 | AVRG | | 1.00142 | | 1.43849 |
| \$ 18 Nitrobenzene-d5 | 0.35681 0.35564 | 0.34705 | 0.36221 | 0.35991 | 0.36634 | 0.36081 | AVRG | | 0.35840 | | 1.70700 |
| \$ 36 2-Fluorobiphenyl | 1.42231 1.34814 | 1.38804 | 1.38526 | 1.40503 | 1.35546 | 1.40214 | AVRG | | 1.38663 | | 1.93263 |

02100126

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
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 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 0.15415 0.16886 | 0.15709 | 0.16428 | 0.16515 | 0.17168 | 0.17449 | AVRG | | 0.16510 | | 4.49377 |
| \$ 66 Terphenyl-d14 | 0.79176 0.71899 | 0.75544 | 0.77467 | 0.77718 | 0.77623 | 0.74269 | AVRG | | 0.76242 | | 3.27653 |
| \$ 85 p-Cresol-d4 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| \$ 86 Anthracene-d10 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| \$ 87 Fluoranthene-d10 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| \$ 88 Dibenz(a,h)anthracene-d14 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| \$ 89 Diphenyl-d10 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |

0052:00427

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-MAY-2012 10:59
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 Quant Method : ISTD
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/20120526.b/ABN.m
 Cal Date : 26-May-2012 15:47 van

| Compound | 0.2000 | 0.5000 | 1 | 2 | 5 | 10 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|---------|---------|---------|---------|---------|---------|-------|--------------|-----------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 95 D10-1-methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+00 | | 0.000e+00 |

02100 2500

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

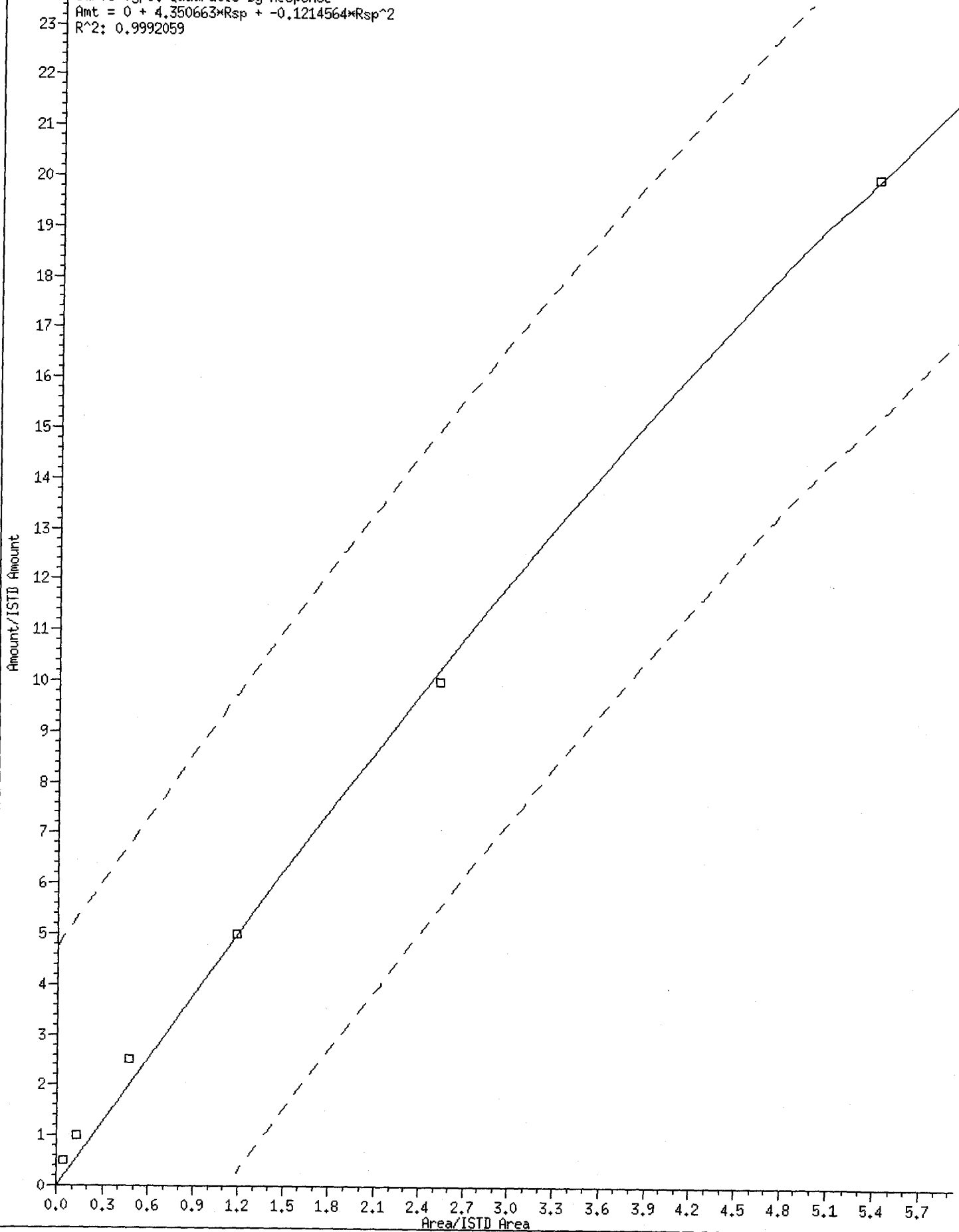
Start Cal Date : 26-MAY-2012 10:59
End Cal Date : 26-MAY-2012 14:42
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt10.i/20120526.b/ABN.m
Cal Date : 26-May-2012 15:47 van

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/ml | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

0052:00129

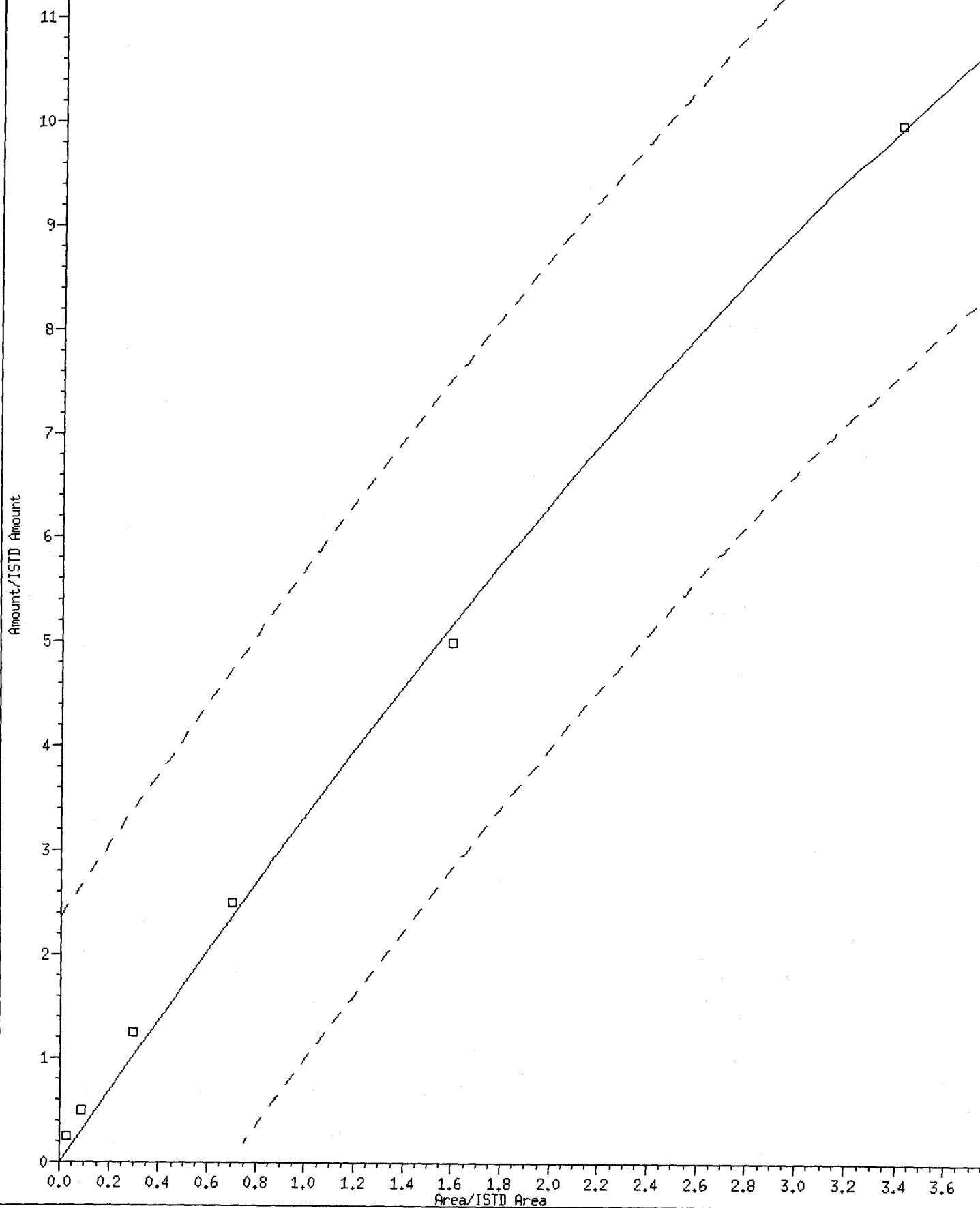
24 Benzoic acid

Curve Type: Quadratic By-Response
Amt = 0 + 4.350663*Rsp + -0.1214564*Rsp^2
R^2: 0.9992059



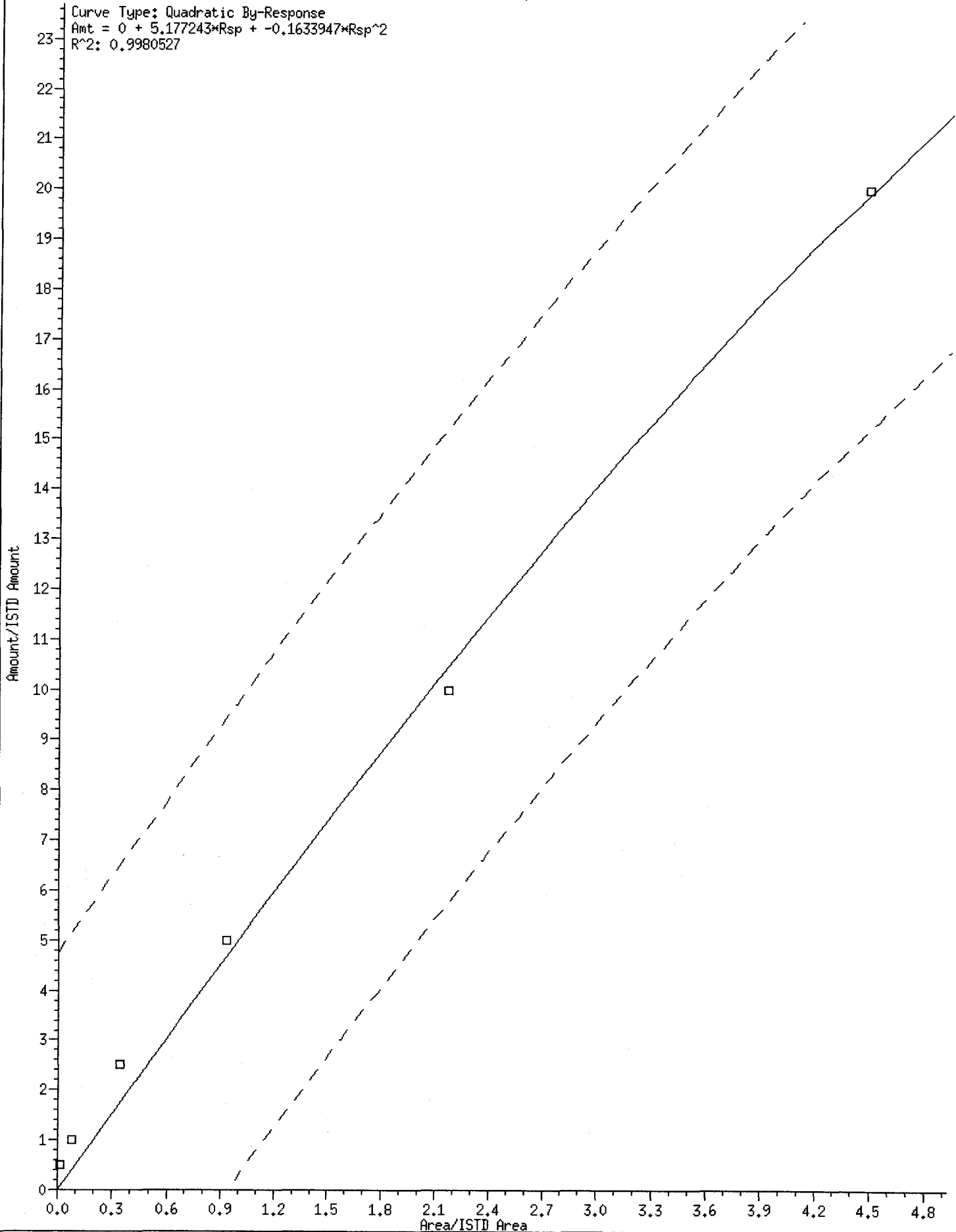
33 Hexachlorocyclopentadiene

Curve Type: Quadratic By-Response
Amt = 0 + 3.52578*Rsp + -0.176885*Rsp^2
R^2: 0.9989604



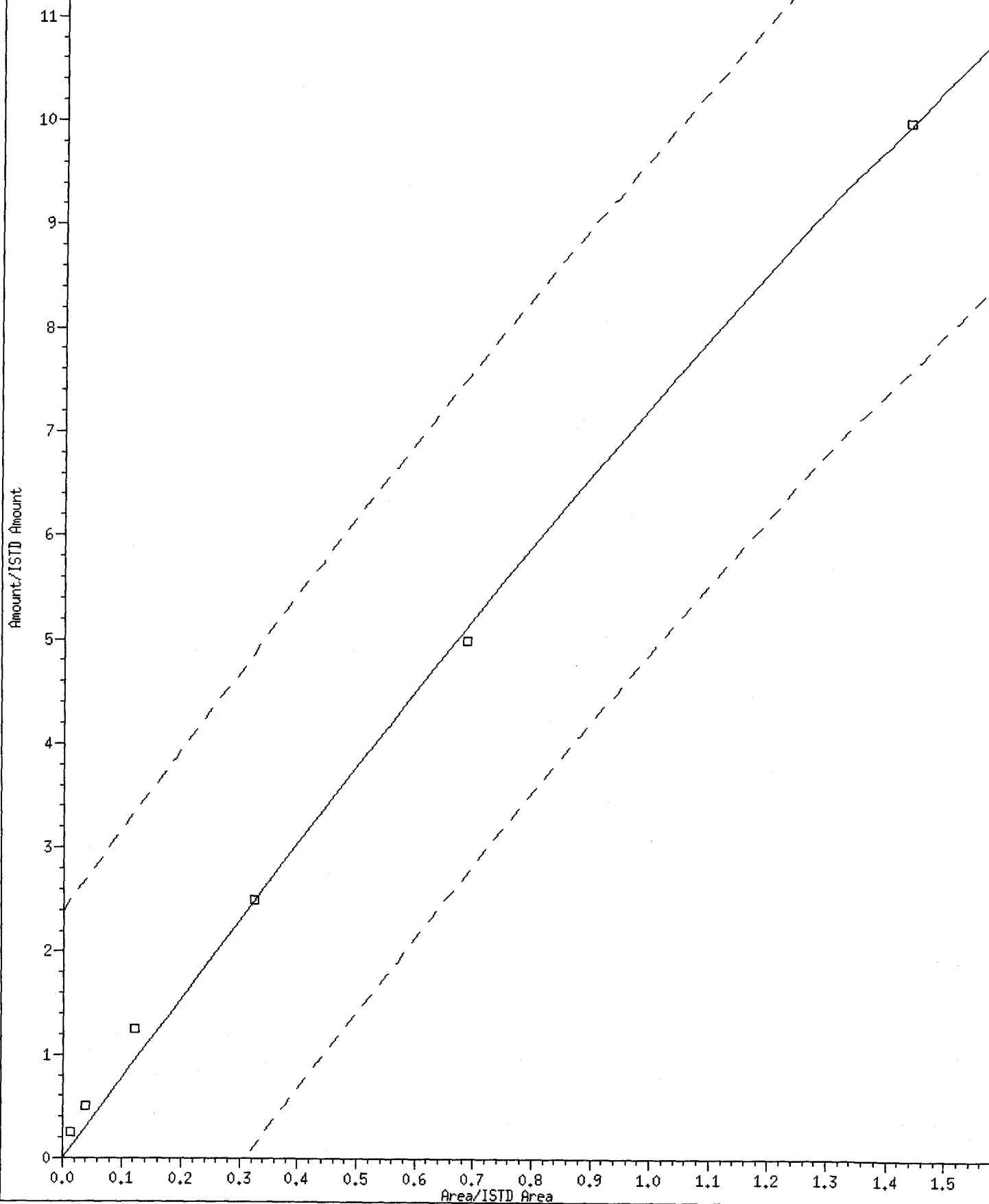
45 2,4-Dinitrophenol

Curve Type: Quadratic By-Response
Amt = 0 + 5.177243*Rsp + -0.1633947*Rsp^2
R^2: 0.9980527



58 Pentachlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 7.905236*Rsp + -0.6620813*Rsp^2
R^2: 0.9989905



Analytical Resources, Inc.

YZ 5/31/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526a.d
 Lab Smp Id: ABN5
 Inj Date : 26-MAY-2012 10:59
 Operator : VTS/YZ
 Smp Info : ABN5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 10:59
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526a.d
 Calibration Sample, Level: 5
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 335752 | 5.00000 | 5.000 |
| \$ 2 Phenol-d5 | 99 | 8.237 | 8.229 | (0.930) | 420818 | 5.00000 | 5.000 |
| 3 Phenol | 94 | 8.260 | 8.252 | (0.933) | 460680 | 5.00000 | 5.000 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.476 | 8.476 | (0.957) | 360864 | 5.00000 | 5.000 |
| 4 Bis(2-Chloroethyl) ether | 93 | 8.399 | 8.399 | (0.948) | 321908 | 5.00000 | 5.000 |
| 6 2-Chlorophenol | 128 | 8.507 | 8.507 | (0.961) | 388656 | 5.00000 | 5.000 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 392615 | 5.00000 | 5.000 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.855 | 8.856 | (1.000) | 189516 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.886 | 8.887 | (1.004) | 377080 | 5.00000 | 5.000 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 239905 | 5.00000 | 5.000 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 371864 | 5.00000 | 5.000 |
| 11 Benzyl alcohol | 108 | 9.166 | 9.166 | (1.035) | 191171 | 5.00000 | 5.000 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.492 | 9.492 | (1.072) | 122034 | 5.00000 | 5.000 |
| 13 2-Methylphenol | 108 | 9.430 | 9.430 | (1.065) | 347227 | 5.00000 | 5.000 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 147829 | 5.00000 | 5.000 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.764 | 9.756 | (1.103) | 202786 | 5.00000 | 5.000 |
| 15 4-Methylphenol | 108 | 9.725 | 9.725 | (1.098) | 362939 | 5.00000 | 5.000 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.027 | 10.020 | (0.872) | 334709 | 5.00000 | 5.000 |
| 19 Nitrobenzene | 77 | 10.058 | 10.059 | (0.874) | 321756 | 5.00000 | 5.000 |
| 20 Isophorone | 82 | 10.547 | 10.540 | (0.917) | 620384 | 5.00000 | 5.000 |
| 21 2-Nitrophenol | 139 | 10.733 | 10.733 | (0.933) | 214097 | 5.00000 | 5.000 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 665979 | 10.00000 | 10.000 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.033 | 11.034 | (0.959) | 363814 | 5.00000 | 5.000 |
| 24 Benzoic acid | 105 | 11.087 | 10.995 | (0.964) | 862339 | 20.00000 | 20.000 |
| 25 2,4-Dichlorophenol | 162 | 11.234 | 11.226 | (0.977) | 647444 | 10.00000 | 10.000 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.419 | 11.411 | (0.993) | 297260 | 5.00000 | 5.000 |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.496 | (1.000) | 730932 | 4.00000 | |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 28 Naphthalene | 128 | 11.542 | 11.543 | (1.003) | 934446 | 5.00000 | 5.000 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.017) | 828363 | 10.0000 | 10.00 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.039) | 165733 | 5.00000 | 5.000 |
| 31 4-Chloro-3-methylphenol | 107 | 12.780 | 12.772 | (1.111) | 585802 | 10.0000 | 10.00 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 659745 | 5.00000 | 5.000 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.882) | 293255 | 10.0000 | 10.00 |
| 34 2,4,6-Trichlorophenol | 196 | 13.732 | 13.724 | (0.893) | 433637 | 10.0000 | 10.00 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 481317 | 10.0000 | 10.00 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 712799 | 5.00000 | 5.000 |
| 37 2-Chloronaphthalene | 162 | 14.103 | 14.104 | (0.917) | 622202 | 5.00000 | 5.000 |
| 38 2-Nitroaniline | 65 | 14.405 | 14.398 | (0.937) | 300000 | 10.0000 | 10.00 |
| 39 Dimethylphthalate | 163 | 14.893 | 14.885 | (0.969) | 644991 | 5.00000 | 5.000 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 937321 | 5.00000 | 5.000 |
| 41 2,6-Dinitrotoluene | 165 | 15.032 | 15.025 | (0.978) | 321175 | 10.0000 | 10.00 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 420698 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.326 | 15.319 | (0.997) | 353215 | 10.0000 | 10.00 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 573481 | 5.00000 | 5.000 |
| 45 2,4-Dinitrophenol | 184 | 15.558 | 15.558 | (1.012) | 392895 | 20.0000 | 20.00 |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 828440 | 5.00000 | 5.000 |
| 47 4-Nitrophenol | 109 | 15.728 | 15.736 | (1.023) | 149508 | 10.0000 | 10.00 |
| 48 2,4-Dinitrotoluene | 165 | 15.898 | 15.891 | (1.034) | 431707 | 10.0000 | 10.00 |
| 50 Diethylphthalate | 149 | 16.470 | 16.463 | (1.071) | 635932 | 5.00000 | 5.000 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 631894 | 5.00000 | 5.000 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 304176 | 5.00000 | 5.000 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 356961 | 10.0000 | 10.00 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.802 | 16.795 | (0.902) | 572088 | 20.0000 | 20.00 |
| 54 N-Nitrosodiphenylamine | 169 | 16.856 | 16.857 | (0.905) | 428732 | 5.00000 | 5.000 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 90284 | 5.00000 | 5.000 |
| 56 4-Bromophenyl-phenylether | 248 | 17.658 | 17.659 | (0.948) | 173197 | 5.00000 | 5.000 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.976 | (0.965) | 193291 | 5.00000 | 5.000 |
| 58 Pentachlorophenol | 266 | 18.378 | 18.386 | (0.986) | 206931 | 10.0000 | 10.00 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 638950 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.687 | 18.680 | (1.003) | 817342 | 5.00000 | 5.000 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 889087 | 5.00000 | 5.000 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 757613 | 5.00000 | 5.000 |
| 63 Di-n-butylphthalate | 149 | 20.010 | 20.003 | (1.074) | 1174853 | 5.00000 | 5.000 |
| 64 Fluoranthene | 202 | 21.101 | 21.102 | (1.132) | 960108 | 5.00000 | 5.000 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 1003743 | 5.00000 | 5.000 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.837 | (0.921) | 625901 | 5.00000 | 5.000 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 470820 | 5.00000 | 5.000 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 895593 | 5.00000 | 5.000 |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.703 | (1.000) | 645065 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 944422 | 10.0000 | 10.00 |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 810779 | 5.00000 | 5.000 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.818 | 23.819 | (0.961) | 691334 | 5.00000 | 5.000 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 1016118 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 1227950 | 5.00000 | 5.000 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 25.452 | 25.444 | (0.975) | 960134 | 5.00000 | 5.000 |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 | (0.976) | 968264 | 5.00000 | 5.000 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 | (0.996) | 851161 | 5.00000 | 5.000 |
| * 77 Perylene-d12 | 264 | 26.102 | 26.103 | (1.000) | 650033 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.342 | 28.334 | (1.086) | 1014701 | 5.00000 | 5.000 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.365 | 28.357 | (1.087) | 806147 | 5.00000 | 5.000 |
| 80 Benzo(g,h,i)perylene | 276 | 29.002 | 28.987 | (1.111) | 867892 | 5.00000 | 5.000 |
| 90 N-Nitrosodimethylamine | 74 | 4.266 | 4.266 | (0.482) | 400028 | 10.0000 | 10.00 |
| 91 Aniline | 93 | 8.291 | 8.291 | (0.936) | 944435 | 5.00000 | 5.000 |
| 93 Benzidine | 184 | 21.364 | 21.365 | (0.901) | 548000 | 10.0000 | 10.00 |
| 103 Pyridine | 79 | 4.282 | 4.290 | (0.484) | 329458 | 10.0000 | 10.00 |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 | (1.154) | 676659 | 5.00000 | 5.000 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 | (1.101) | 624121 | 5.00000 | 5.000 |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 | (0.976) | 1817664 | 10.0000 | 10.00 |
| 99 Perylene | 252 | 26.149 | 26.149 | (1.002) | 848638 | 5.00000 | 5.000 |
| 98 Retene | 219 | 22.131 | 22.131 | (0.933) | 474577 | 5.00000 | 5.000 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526a.d
 Lab Smp Id: ABN5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

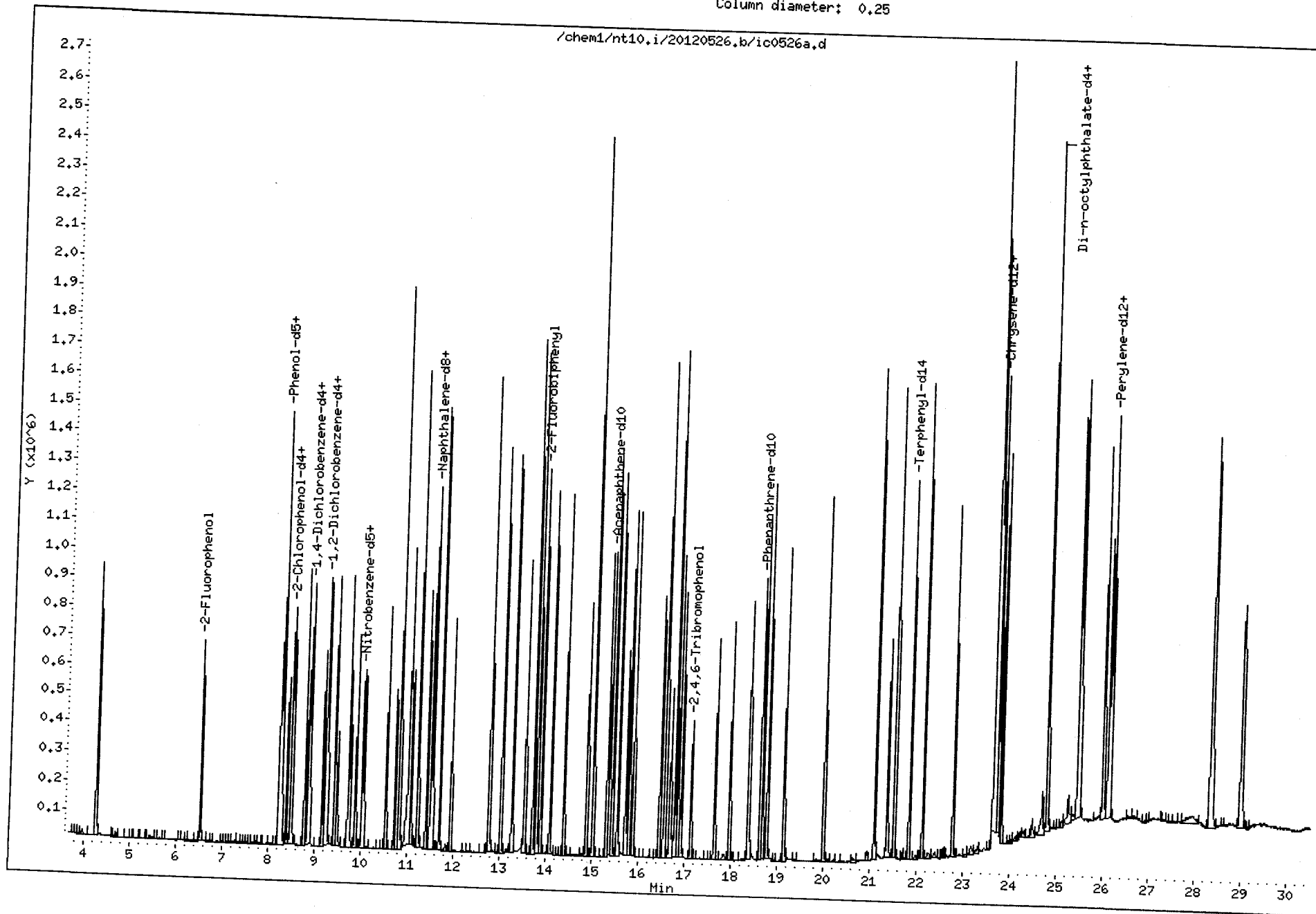
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 189516 | 0.00 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 730932 | 0.00 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 420698 | 0.00 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 638950 | 0.00 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 645065 | 0.00 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1016118 | 0.00 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 650033 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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.



CO-ELUTION SUMMARY FOR FILE - ic0526a.d

Lab ID: ABN5, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

15.032 Acenaphthylene and 2,6-Dinitrotoluene

Analytical Resources, Inc.

YZ 5/30/12

Semivolatle Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526b.d
 Lab Smp Id: ABN20
 Inj Date : 26-MAY-2012 11:36
 Operator : VTS/YZ
 Smp Info : ABN20
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 11:36
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526b.d
 Calibration Sample, Level: 7
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.544 | 6.537 | (0.738) | 1262839 | 20.0000 | 19.66 |
| \$ 2 Phenol-d5 | 99 | 8.244 | 8.229 | (0.930) | 1651383 | 20.0000 | 20.08 |
| 3 Phenol | 94 | 8.268 | 8.252 | (0.933) | 1697721 | 20.0000 | 19.45 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.484 | 8.476 | (0.957) | 1405893 | 20.0000 | 20.01 |
| 4 Bis(2-Chloroethyl) ether | 93 | 8.407 | 8.399 | (0.948) | 1224663 | 20.0000 | 19.77 |
| 6 2-Chlorophenol | 128 | 8.515 | 8.507 | (0.961) | 1601054 | 20.0000 | 20.57 |
| 7 1,3-Dichlorobenzene | 146 | 8.793 | 8.786 | (0.992) | 1427592 | 20.0000 | 19.32 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.856 | (1.000) | 184424 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.894 | 8.887 | (1.004) | 1422168 | 20.0000 | 19.68 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.243 | 9.236 | (1.043) | 919210 | 20.0000 | 19.84 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 1388404 | 20.0000 | 19.58 |
| 11 Benzyl alcohol | 108 | 9.181 | 9.166 | (1.036) | 767351 | 20.0000 | 20.31 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.500 | 9.492 | (1.072) | 452540 | 20.0000 | 19.52 |
| 13 2-Methylphenol | 108 | 9.438 | 9.430 | (1.065) | 1346182 | 20.0000 | 19.96 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.116) | 587548 | 20.0000 | 20.21 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.779 | 9.756 | (1.103) | 764483 | 20.0000 | 19.68 |
| 15 4-Methylphenol | 108 | 9.740 | 9.725 | (1.099) | 1391012 | 20.0000 | 19.84 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.035 | 10.020 | (0.872) | 1301788 | 20.0000 | 19.70 |
| 19 Nitrobenzene | 77 | 10.074 | 10.059 | (0.876) | 1257209 | 20.0000 | 19.75 |
| 20 Isophorone | 82 | 10.563 | 10.540 | (0.918) | 2630962 | 20.0000 | 20.57 |
| 21 2-Nitrophenol | 139 | 10.741 | 10.733 | (0.934) | 840731 | 20.0000 | 19.80 |
| 22 2,4-Dimethylphenol | 107 | 10.849 | 10.833 | (0.943) | 2502613 | 40.0000 | 38.72 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.041 | 11.034 | (0.960) | 1405177 | 20.0000 | 19.63 |
| 24 Benzoic acid | 105 | 11.249 | 10.995 | (0.978) | 3954019 | 80.0000 | 85.39 |
| 25 2,4-Dichlorophenol | 162 | 11.242 | 11.226 | (0.977) | 2459708 | 40.0000 | 38.94 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.419 | 11.411 | (0.993) | 1108979 | 20.0000 | 19.29 |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.496 | (1.000) | 732078 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.550 | 11.543 | (1.004) | 3652849 | 20.0000 | 19.75 |
| 29 4-Chloroaniline | 127 | 11.720 | 11.705 | (1.019) | 3326411 | 40.0000 | 40.05 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.039) | 609557 | 20.0000 | 19.15 |
| 31 4-Chloro-3-methylphenol | 107 | 12.788 | 12.772 | (1.112) | 2374372 | 40.0000 | 40.23 |
| 32 2-Methylnaphthalene | 142 | 13.051 | 13.043 | (1.134) | 2614854 | 20.0000 | 19.89 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.881) | 1418921 | 40.0000 | 44.01 |
| 34 2,4,6-Trichlorophenol | 196 | 13.740 | 13.724 | (0.893) | 1701140 | 40.0000 | 39.83 |
| 35 2,4,5-Trichlorophenol | 196 | 13.817 | 13.809 | (0.898) | 1860763 | 40.0000 | 39.54 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.910 | 13.902 | (0.904) | 2804466 | 20.0000 | 19.95 |
| 37 2-Chloronaphthalene | 162 | 14.111 | 14.104 | (0.917) | 2415928 | 20.0000 | 19.81 |
| 38 2-Nitroaniline | 65 | 14.421 | 14.398 | (0.938) | 1197823 | 40.0000 | 40.19 |
| 39 Dimethylphthalate | 163 | 14.908 | 14.885 | (0.969) | 2292323 | 20.0000 | 18.93 |
| 40 Acenaphthylene | 152 | 15.040 | 15.032 | (0.978) | 3567122 | 20.0000 | 19.61 |
| 41 2,6-Dinitrotoluene | 165 | 15.048 | 15.025 | (0.978) | 1210937 | 40.0000 | 39.04 |
| * 42 Acenaphthene-d10 | 164 | 15.380 | 15.373 | (1.000) | 416049 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.342 | 15.319 | (0.997) | 1359172 | 40.0000 | 39.45 |
| 44 Acenaphthene | 153 | 15.450 | 15.442 | (1.005) | 2222947 | 20.0000 | 19.80 |
| 45 2,4-Dinitrophenol | 184 | 15.581 | 15.558 | (1.013) | 1863407 | 80.0000 | 80.66 |
| 46 Dibenzofuran | 168 | 15.813 | 15.798 | (1.028) | 3266234 | 20.0000 | 19.97 |
| 47 4-Nitrophenol | 109 | 15.751 | 15.736 | (1.024) | 577134 | 40.0000 | 39.51 |
| 48 2,4-Dinitrotoluene | 165 | 15.914 | 15.891 | (1.035) | 1591873 | 40.0000 | 38.60 |
| 50 Diethylphthalate | 149 | 16.494 | 16.463 | (1.072) | 2259396 | 20.0000 | 18.93 |
| 49 Fluorene | 166 | 16.571 | 16.563 | (1.077) | 2467121 | 20.0000 | 19.87 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.586 | 16.579 | (1.078) | 1138615 | 20.0000 | 19.45 |
| 52 4-Nitroaniline | 138 | 16.725 | 16.687 | (1.087) | 1455861 | 40.0000 | 40.61 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.826 | 16.795 | (0.903) | 2173122 | 80.0000 | 80.14 |
| 54 N-Nitrosodiphenylamine | 169 | 16.872 | 16.857 | (0.905) | 1487492 | 20.0000 | 19.13 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.149 | 17.142 | (1.115) | 351267 | 20.0000 | 19.83 |
| 56 4-Bromophenyl-phenylether | 248 | 17.666 | 17.659 | (0.948) | 641886 | 20.0000 | 19.79 |
| 57 Hexachlorobenzene | 284 | 17.983 | 17.976 | (0.965) | 728562 | 20.0000 | 19.96 |
| 58 Pentachlorophenol | 266 | 18.386 | 18.386 | (0.986) | 867054 | 40.0000 | 42.03 |
| * 59 Phenanthrene-d10 | 188 | 18.641 | 18.633 | (1.000) | 604660 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.695 | 18.680 | (1.003) | 3251269 | 20.0000 | 20.50 |
| 61 Anthracene | 178 | 18.788 | 18.780 | (1.008) | 3338115 | 20.0000 | 19.92 |
| 62 Carbazole | 167 | 19.152 | 19.144 | (1.027) | 3061226 | 20.0000 | 20.65 |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.073) | 4528763 | 20.0000 | 20.18 |
| 64 Fluoranthene | 202 | 21.109 | 21.102 | (1.132) | 3756545 | 20.0000 | 20.33 |
| 65 Pyrene | 202 | 21.527 | 21.519 | (0.908) | 3928999 | 20.0000 | 19.89 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.837 | (0.921) | 2294042 | 20.0000 | 19.23 |
| 67 Butylbenzylphthalate | 149 | 22.789 | 22.781 | (0.961) | 1750894 | 20.0000 | 19.38 |
| 68 Benzo(a)anthracene | 228 | 23.687 | 23.679 | (0.999) | 3616838 | 20.0000 | 20.20 |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.703 | (1.000) | 638131 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.671 | 23.656 | (0.998) | 4176265 | 40.0000 | 42.22 |
| 71 Chrysene | 228 | 23.764 | 23.749 | (1.002) | 3220367 | 20.0000 | 20.04 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.826 | 23.819 | (0.961) | 2719894 | 20.0000 | 19.54 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.802 | 24.794 | (1.000) | 1045968 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.809 | 24.802 | (1.000) | 4939797 | 20.0000 | 19.77 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 25.460 | 25.444 | (0.975) | 3988850 | 20.0000 | 20.50 |
| 75 Benzo(k)fluoranthene | 252 | 25.498 | 25.483 | (0.977) | 3557823 | 20.0000 | 19.27 |
| 76 Benzo(a)pyrene | 252 | 26.017 | 26.002 | (0.996) | 3334687 | 20.0000 | 19.92 |
| * 77 Perylene-d12 | 264 | 26.110 | 26.103 | (1.000) | 642084 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.373 | 28.334 | (1.087) | 3972006 | 20.0000 | 19.91 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.388 | 28.357 | (1.087) | 3176130 | 20.0000 | 19.97 |
| 80 Benzo(g,h,i)perylene | 276 | 29.033 | 28.987 | (1.112) | 3402803 | 20.0000 | 19.92 |
| 90 N-Nitrosodimethylamine | 74 | 4.282 | 4.266 | (0.483) | 1441278 | 40.0000 | 38.45 |
| 91 Aniline | 93 | 8.306 | 8.291 | (0.937) | 3428272 | 20.0000 | 19.30 |
| 93 Benzidine | 184 | 21.380 | 21.365 | (0.902) | 3696511 | 40.0000 | 40.59 |
| 103 Pyridine | 79 | 4.274 | 4.290 | (0.482) | 1287473 | 40.0000 | 40.08 |
| 105 1-methylnaphthalene | 142 | 13.283 | 13.275 | (1.155) | 2690522 | 20.0000 | 19.92 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.941 | 16.926 | (1.101) | 2302372 | 20.0000 | 19.30 |
| 187 Total Benzofluoranthenes | 252 | 25.498 | 25.483 | (0.977) | 7088364 | 40.0000 | 39.74 |
| 99 Perylene | 252 | 26.164 | 26.149 | (1.002) | 3382398 | 20.0000 | 20.09 |
| 98 Retene | 219 | 22.138 | 22.131 | (0.934) | 1890598 | 20.0000 | 20.07 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526b.d
 Lab Smp Id: ABN20
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

Level:
 Sample Type:

Test Mode:

Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 184424 | -2.69 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 732078 | 0.16 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 416049 | -1.11 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 604660 | -5.37 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 638131 | -1.07 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1045968 | 2.94 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 642084 | -1.22 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.80 | 0.03 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.11 | 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.

Date : 26-MAY-2012 11:36

Client ID:

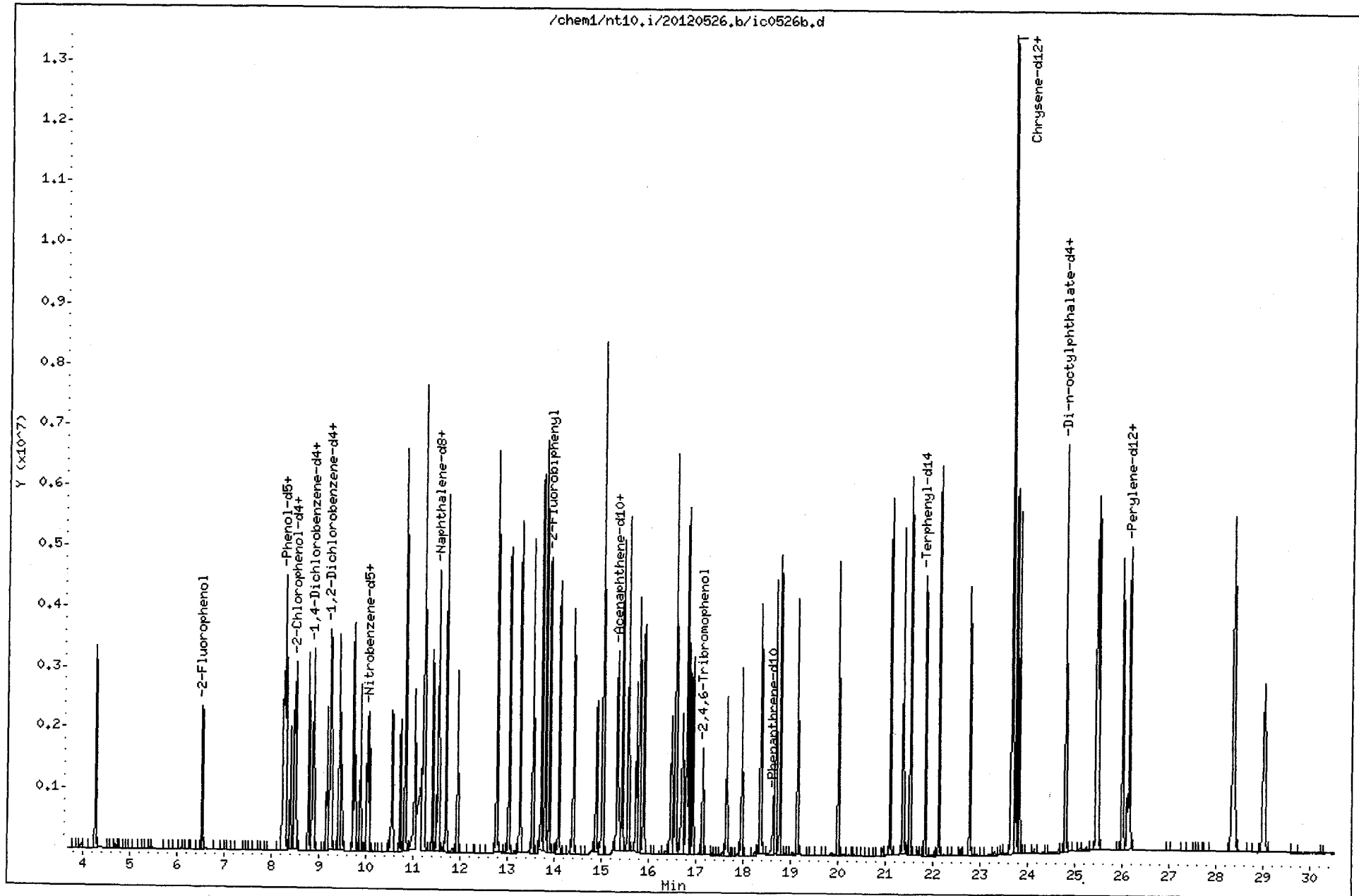
Sample Info: ABN20

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0.25

Column phase: ZB-5msi



0052:001114

CO-ELUTION SUMMARY FOR FILE - ic0526b.d

Lab ID: ABN20, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

4/25/30/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526c.d
 Lab Smp Id: ABN.2
 Inj Date : 26-MAY-2012 12:13
 Operator : VTS/YZ
 Smp Info : ABN.2
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 12:13
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526c.d
 Calibration Sample, Level: 1
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 13568 | 0.20000 | 0.1987 |
| \$ 2 Phenol-d5 | 99 | 8.237 | 8.229 | (0.930) | 16479 | 0.20000 | 0.1918 |
| 3 Phenol | 94 | 8.260 | 8.252 | (0.933) | 19057 | 0.20000 | 0.2031 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.476 | 8.476 | (0.957) | 15312 | 0.20000 | 0.2029 |
| 4 Bis(2-Chloroethyl) ether | 93 | 8.399 | 8.399 | (0.948) | 14363 | 0.20000 | 0.2113 |
| 6 2-Chlorophenol | 128 | 8.507 | 8.507 | (0.961) | 15648 | 0.20000 | 0.1922 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 16913 | 0.20000 | 0.2095 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.855 | 8.856 | (1.000) | 196685 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.886 | 8.887 | (1.004) | 16424 | 0.20000 | 0.2086 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 9895 | 0.20000 | 0.2002 |
| 12 1,2-Dichlorobenzene | 146 | 9.259 | 9.267 | (1.046) | 15583 | 0.20000 | 0.2040 |
| 11 Benzyl alcohol | 108 | 9.166 | 9.166 | (1.035) | 7775 | 0.20000 | 0.1952 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.492 | 9.492 | (1.072) | 5219 | 0.20000 | 0.2072 |
| 13 2-Methylphenol | 108 | 9.430 | 9.430 | (1.065) | 15115 | 0.20000 | 0.2066 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 6059 | 0.20000 | 0.1969 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.764 | 9.756 | (1.103) | 8433 | 0.20000 | 0.2024 |
| 15 4-Methylphenol | 108 | 9.725 | 9.725 | (1.098) | 14946 | 0.20000 | 0.2000 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.020 | 10.020 | (0.872) | 13659 | 0.20000 | 0.1985 |
| 19 Nitrobenzene | 77 | 10.059 | 10.059 | (0.875) | 14198 | 0.20000 | 0.2087 |
| 20 Isophorone | 82 | 10.547 | 10.540 | (0.917) | 24784 | 0.20000 | 0.1899 |
| 21 2-Nitrophenol | 139 | 10.733 | 10.733 | (0.934) | 8296 | 0.20000 | 0.1910 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 26570 | 0.40000 | 0.3954 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.034 | 11.034 | (0.960) | 15823 | 0.20000 | 0.2075 |
| 24 Benzoic acid | 105 | 10.972 | 10.995 | (0.954) | 12487 | 0.80000 | 0.3331 (M) |
| 25 2,4-Dichlorophenol | 162 | 11.234 | 11.226 | (0.977) | 22711 | 0.40000 | 0.3607 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.411 | 11.411 | (0.993) | 13024 | 0.20000 | 0.2108 |
| * 27 Naphthalene-d8 | 136 | 11.496 | 11.496 | (1.000) | 765616 | 4.00000 | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.004) | 39005 | 0.20000 | 0.2011 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.018) | 32402 | 0.40000 | 0.3816 |
| 30 Hexachlorobutadiene | 225 | 11.944 | 11.944 | (1.039) | 6543 | 0.20000 | 0.1977 |
| 31 4-Chloro-3-methylphenol | 107 | 12.780 | 12.772 | (1.112) | 21284 | 0.40000 | 0.3615 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.135) | 26386 | 0.20000 | 0.1946 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.882) | 2706 | 0.40000 | 0.08451 |
| 34 2,4,6-Trichlorophenol | 196 | 13.732 | 13.724 | (0.893) | 15103 | 0.40000 | 0.3696 |
| 35 2,4,5-Trichlorophenol | 196 | 13.817 | 13.809 | (0.899) | 15402 | 0.40000 | 0.3501 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.895 | 13.902 | (0.904) | 29387 | 0.20000 | 0.2068 |
| 37 2-Chloronaphthalene | 162 | 14.104 | 14.104 | (0.917) | 24508 | 0.20000 | 0.2016 |
| 38 2-Nitroaniline | 65 | 14.398 | 14.398 | (0.937) | 11432 | 0.40000 | 0.3907 |
| 39 Dimethylphthalate | 163 | 14.885 | 14.885 | (0.968) | 26608 | 0.20000 | 0.2137 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 38244 | 0.20000 | 0.2077 |
| 41 2,6-Dinitrotoluene | 165 | 15.025 | 15.025 | (0.977) | 11764 | 0.40000 | 0.3877 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 413229 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.319 | 15.319 | (0.996) | 13646 | 0.40000 | 0.3992 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 22552 | 0.20000 | 0.2015 |
| 45 2,4-Dinitrophenol | 184 | 15.605 | 15.558 | (1.015) | 615 | 0.80000 | 0.02680 (M) |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 32252 | 0.20000 | 0.1990 |
| 47 4-Nitrophenol | 109 | 15.759 | 15.736 | (1.025) | 4402 | 0.40000 | 0.3300 (M) |
| 48 2,4-Dinitrotoluene | 165 | 15.891 | 15.891 | (1.034) | 14035 | 0.40000 | 0.3598 |
| 50 Diethylphthalate | 149 | 16.463 | 16.463 | (1.071) | 25582 | 0.20000 | 0.2102 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 26426 | 0.20000 | 0.2093 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 12377 | 0.20000 | 0.2084 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 12447 | 0.40000 | 0.3649 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.803 | 16.795 | (0.902) | 8258 | 0.80000 | 0.3628 |
| 54 N-Nitrosodiphenylamine | 169 | 16.857 | 16.857 | (0.905) | 18217 | 0.20000 | 0.2124 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 3185 | 0.20000 | 0.1870 |
| 56 4-Bromophenyl-phenylether | 248 | 17.651 | 17.659 | (0.947) | 7093 | 0.20000 | 0.2030 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.976 | (0.965) | 7955 | 0.20000 | 0.2026 |
| 58 Pentachlorophenol | 266 | 18.394 | 18.386 | (0.987) | 2577 | 0.40000 | 0.1530 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 646258 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.680 | 18.680 | (1.002) | 34268 | 0.20000 | 0.2014 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 34562 | 0.20000 | 0.1952 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 33118 | 0.20000 | 0.2059 |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.074) | 43110 | 0.20000 | 0.1860 |
| 64 Fluoranthene | 202 | 21.101 | 21.102 | (1.132) | 37307 | 0.20000 | 0.1925 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 38832 | 0.20000 | 0.1965 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.837 | (0.922) | 25498 | 0.20000 | 0.2077 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 18592 | 0.20000 | 0.2026 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 38870 | 0.20000 | 0.2098 |
| * 69 Chrysene-d12 | 240 | 23.702 | 23.703 | (1.000) | 644080 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 42897 | 0.40000 | 0.4297 |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 31855 | 0.20000 | 0.1976 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.819 | (0.961) | 28907 | 0.20000 | 0.2178 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 952925 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 49350 | 0.20000 | 0.2109 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-----------------------------------|-----------|--------|----------------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| 74 Benzo(b)fluoranthene | 252 | 25.444 | 25.444 (0.975) | 35453 | 0.20000 | 0.1872 | |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 (0.976) | 41093 | 0.20000 | 0.2139 | |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 (0.996) | 34367 | 0.20000 | 0.2028 | |
| * 77 Perylene-d12 | 264 | 26.102 | 26.103 (1.000) | 645156 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.342 | 28.334 (1.086) | 36173 | 0.20000 | 0.1865 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.357 | 28.357 (1.086) | 27417 | 0.20000 | 0.1801 | |
| 80 Benzo(g,h,i)perylene | 276 | 28.986 | 28.987 (1.110) | 32336 | 0.20000 | 0.1921 | |
| 90 N-Nitrosodimethylamine | 74 | 4.274 | 4.266 (0.483) | 16951 | 0.40000 | 0.4157 | |
| 91 Aniline | 93 | 8.291 | 8.291 (0.936) | 40190 | 0.20000 | 0.2080 | |
| 93 Benzidine | 184 | 21.365 | 21.365 (0.901) | 30282 | 0.40000 | 0.5898 | |
| 103 Pyridine | 79 | 4.305 | 4.290 (0.486) | 14470 | 0.40000 | 0.4146 | |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 (1.155) | 26434 | 0.20000 | 0.1913 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 (1.101) | 26688 | 0.20000 | 0.2162 | |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 (0.976) | 72553 | 0.40000 | 0.4032 | |
| 99 Perylene | 252 | 26.141 | 26.149 (1.001) | 34431 | 0.20000 | 0.2023 | |
| 98 Retene | 219 | 22.131 | 22.131 (0.934) | 17757 | 0.20000 | 0.1910 | |

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: ic0526c.d
 Lab Smp Id: ABN.2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

Level:
 Sample Type:

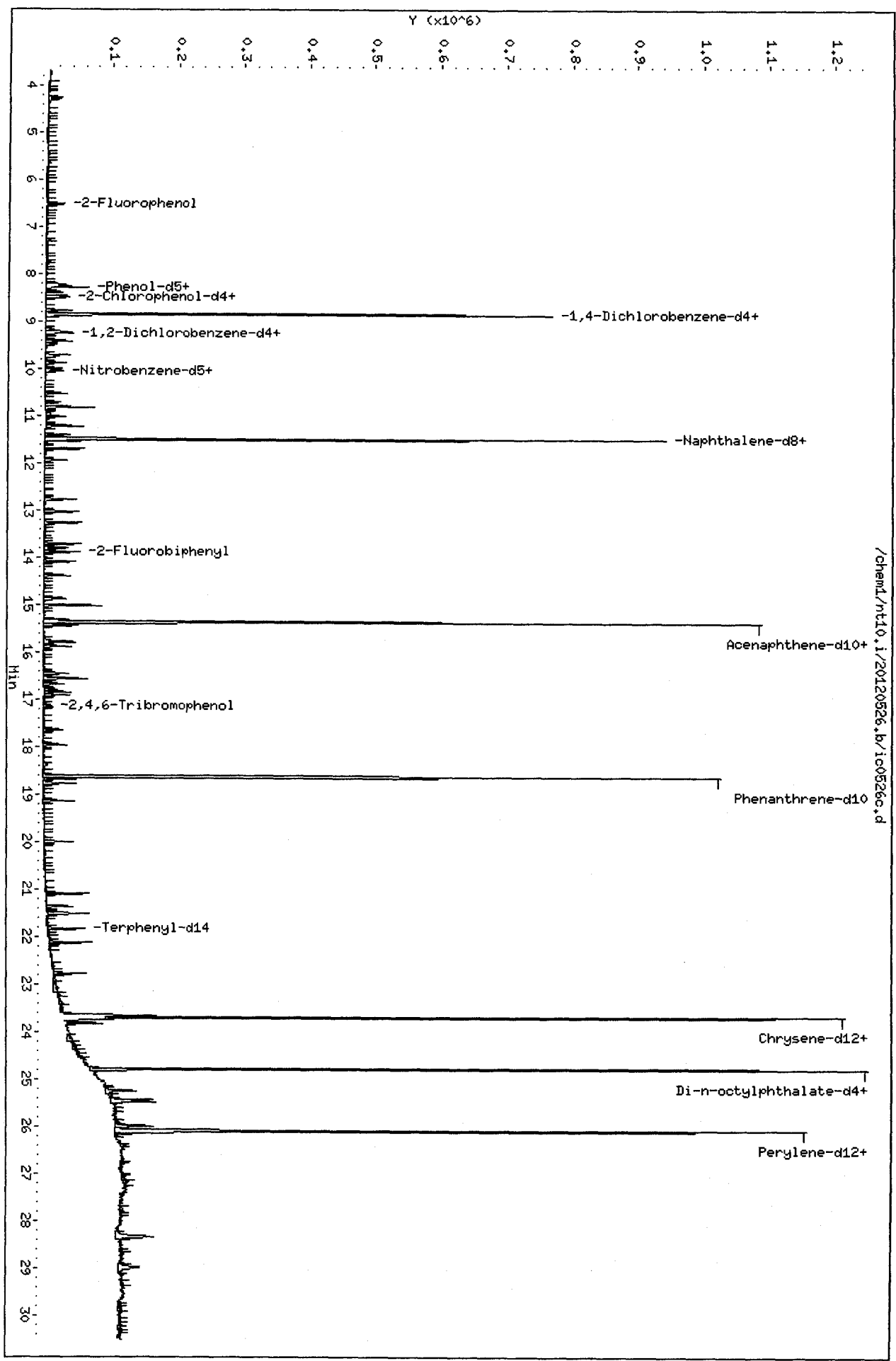
Test Mode:

Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 196685 | 3.78 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 765616 | 4.75 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 413229 | -1.78 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 646258 | 1.14 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 644080 | -0.15 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 952925 | -6.22 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 645156 | -0.75 |

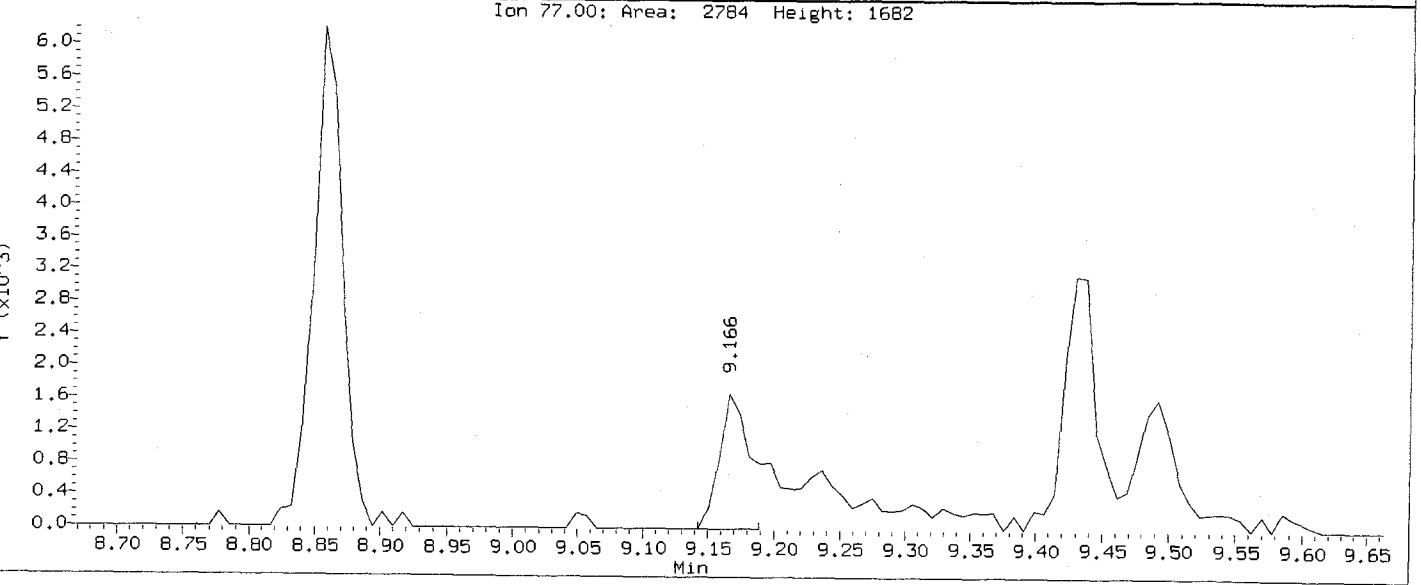
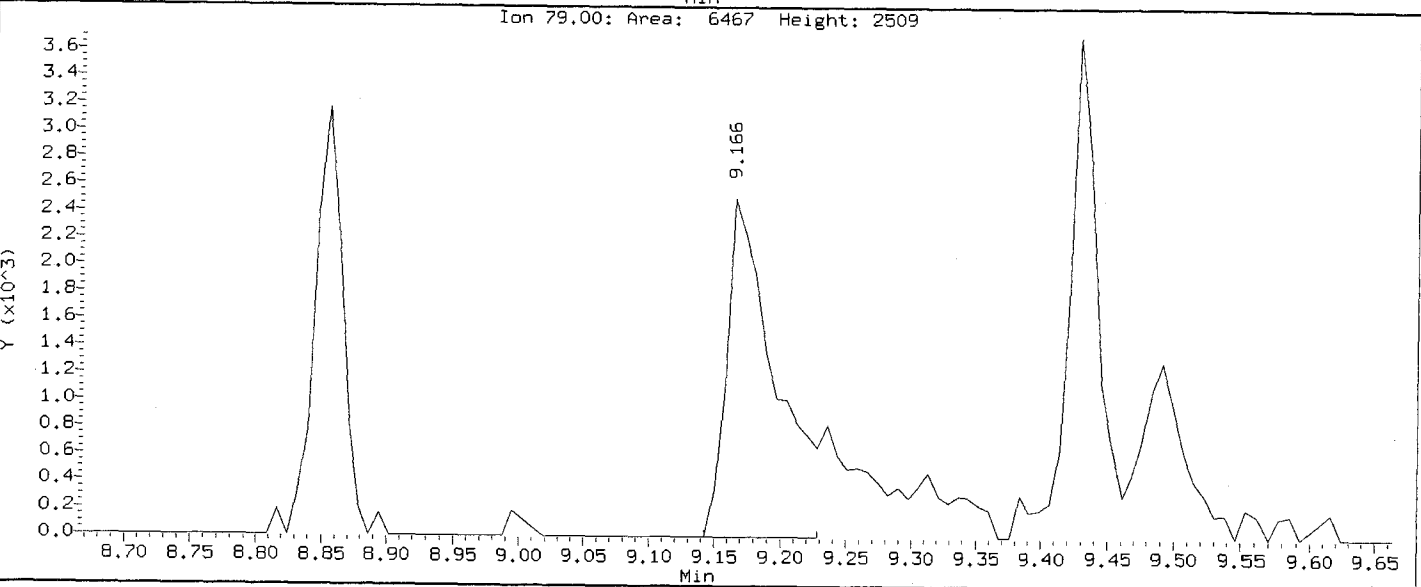
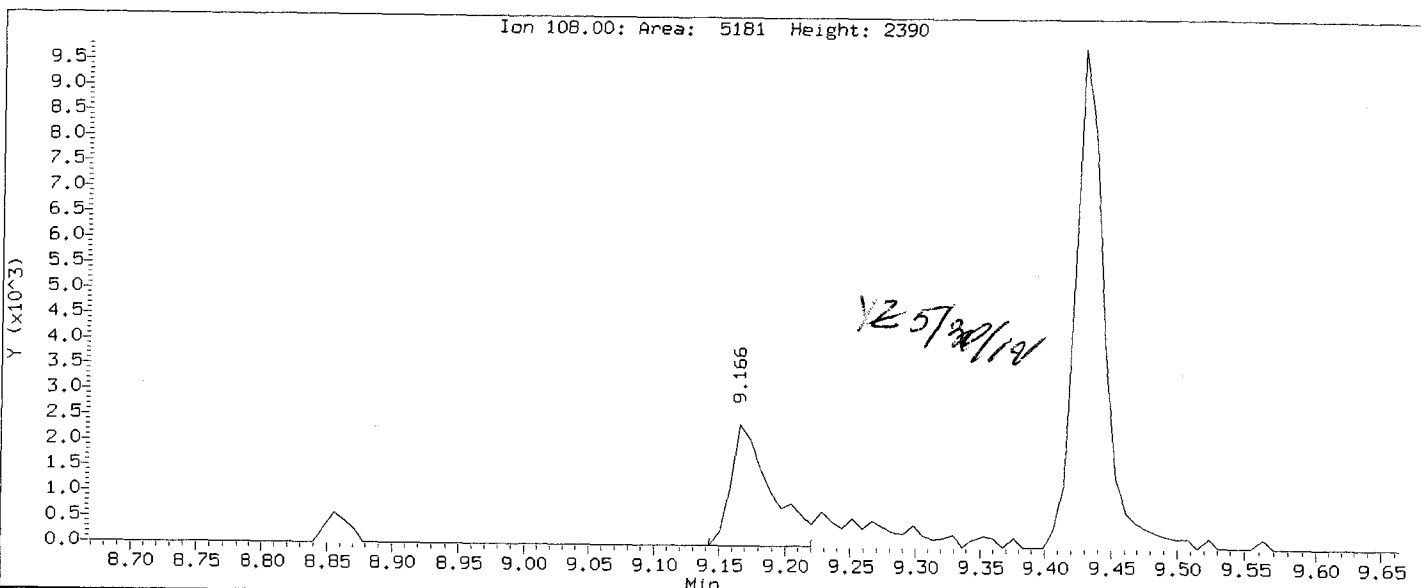
| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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/20120526.b/ic0526c.d
Injection Date: 26-MAY-2012 12:13
Instrument: nt10.i
Client Sample ID:

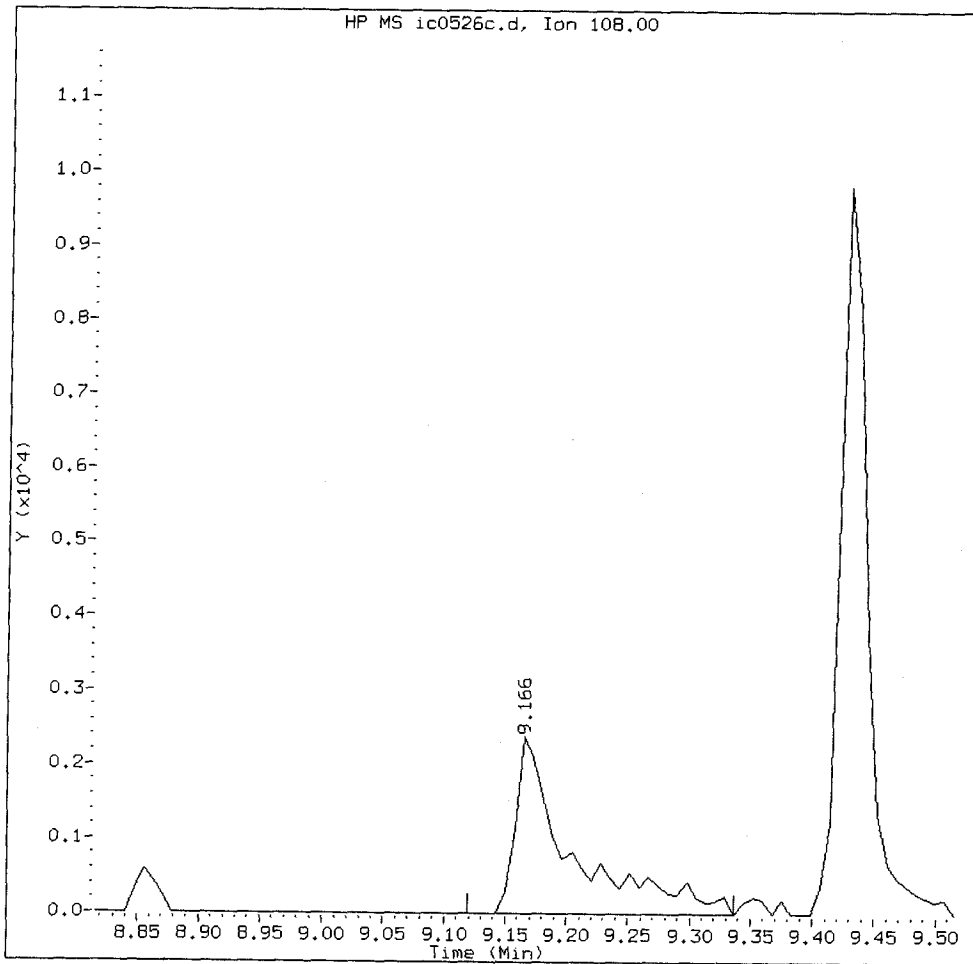
Compound: Benzyl alcohol
CAS Number: 100-51-6



UU52: 00451

ABN.2, /chem1/nt10.i/20120526.b/ic0526c.d

Benzyl alcohol Amount: 0.20 Area: 7775



MANUAL INTEGRATION for Benzyl alcohol

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

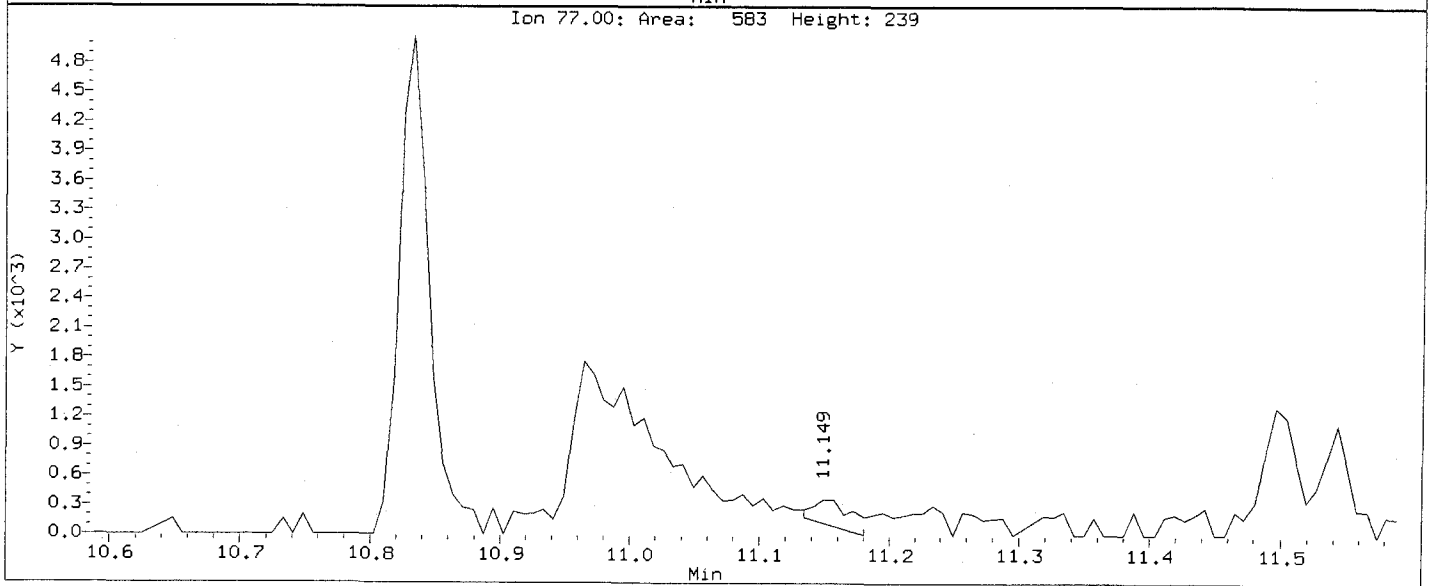
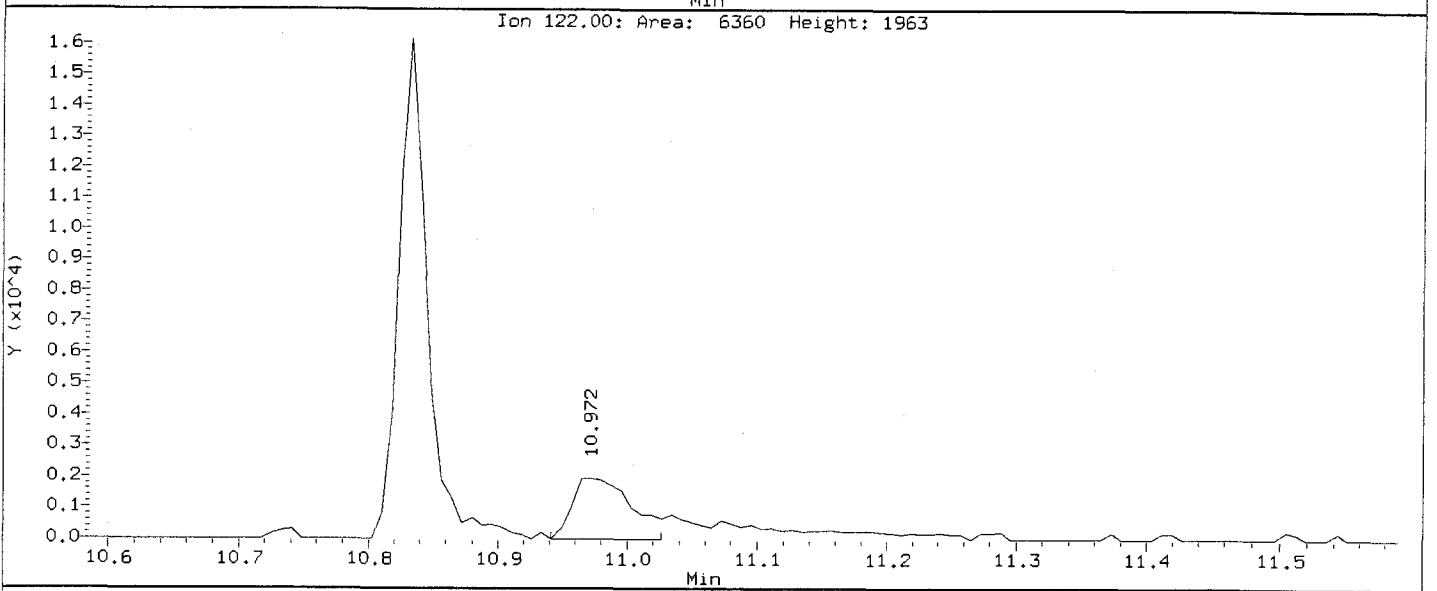
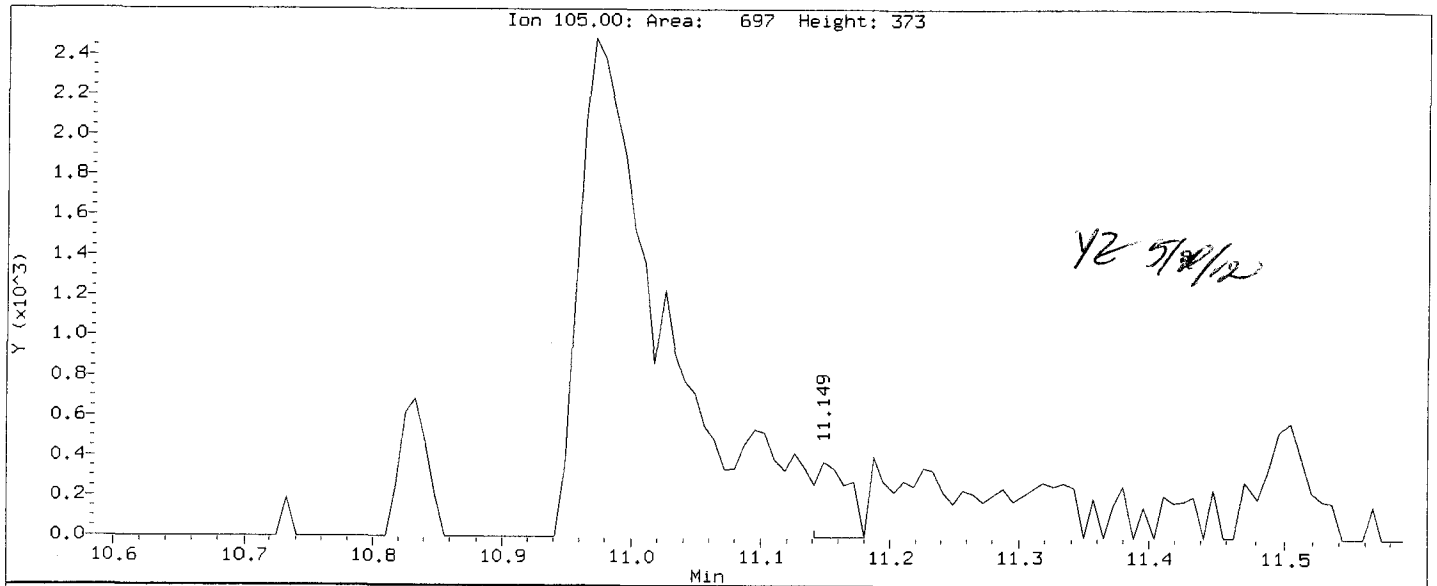
5. Other _____

Analyst: R

Date: 5/20/10

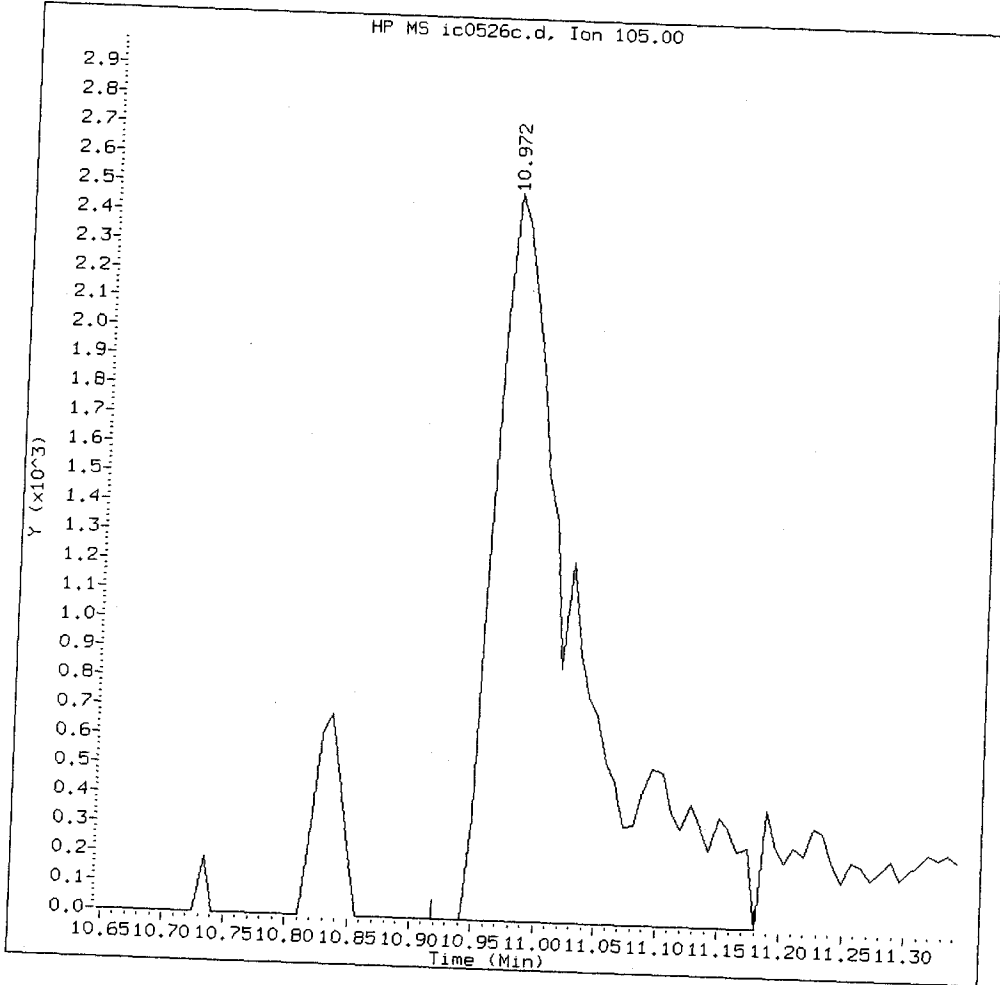
Data File: /chem1/nt10.i/20120526.b/ic0526c.d
Injection Date: 26-MAY-2012 12:13
Instrument: nt10.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0



ABN.2, /chem1/nt10.i/20120526.b/ic0526c.d

Benzoic acid Amount: 0.33 Area: 12487



MANUAL INTEGRATION for Benzoic acid

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

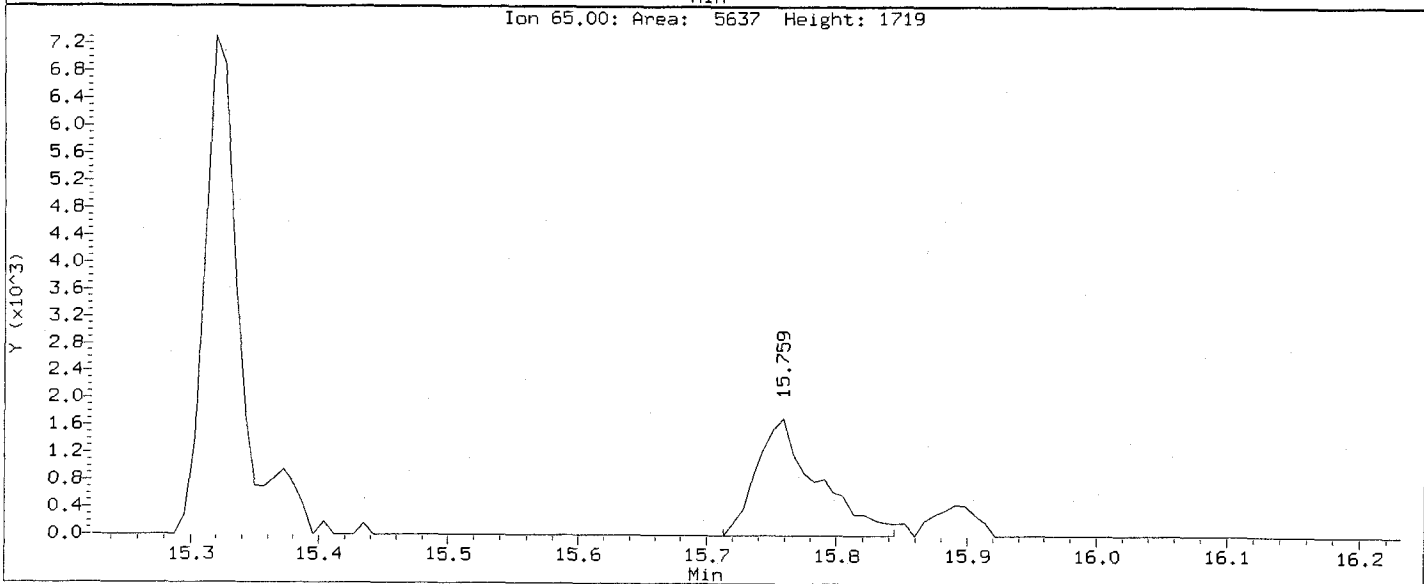
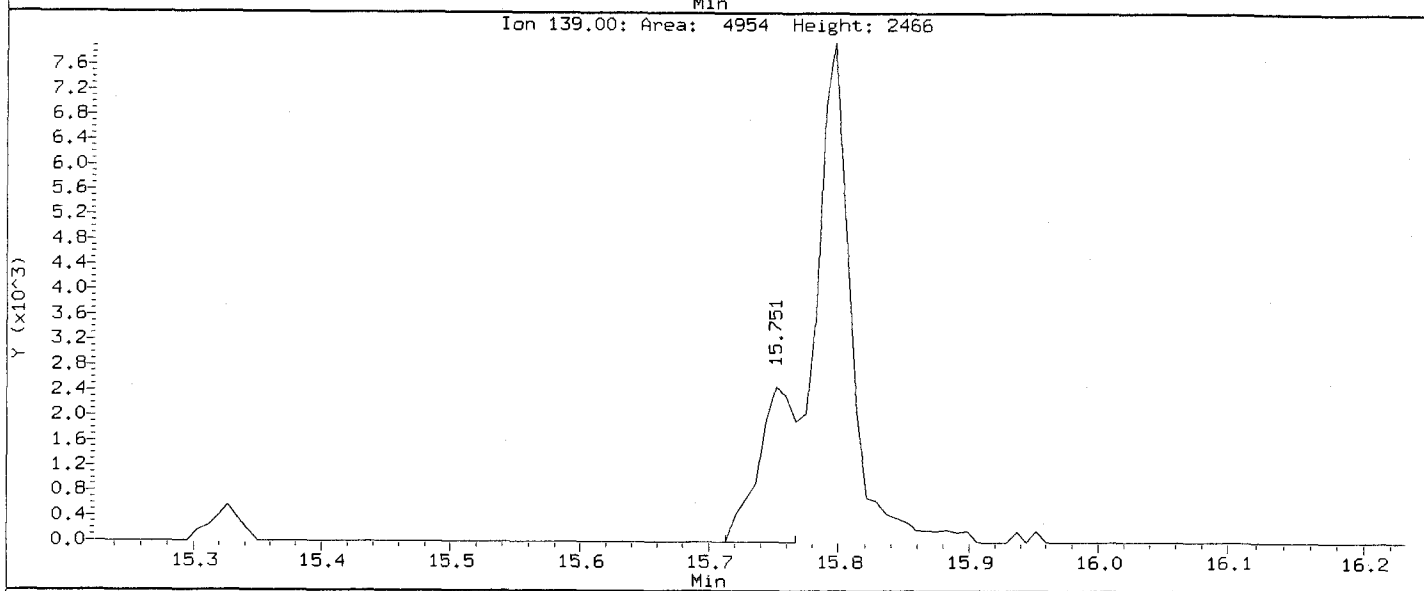
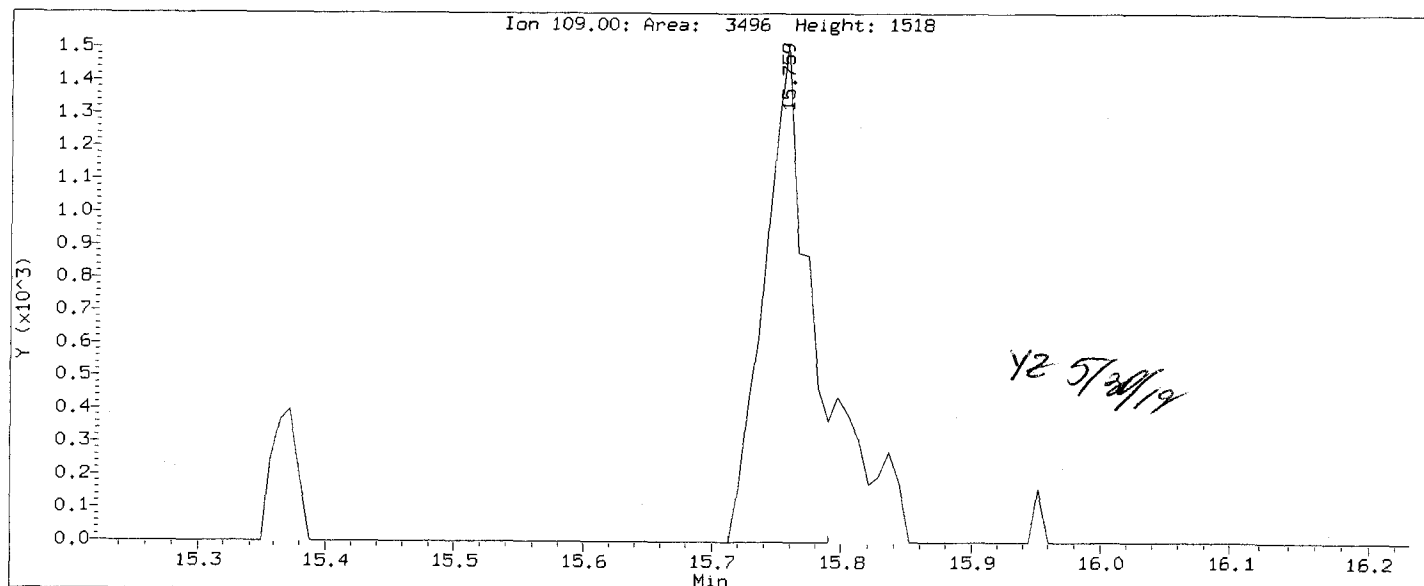
5. Other _____

Analyst: _____

Date: _____

Data File: /chem1/nt10.i/20120526.b/ic0526c.d
Injection Date: 26-MAY-2012 12:13
Instrument: nt10.i
Client Sample ID:

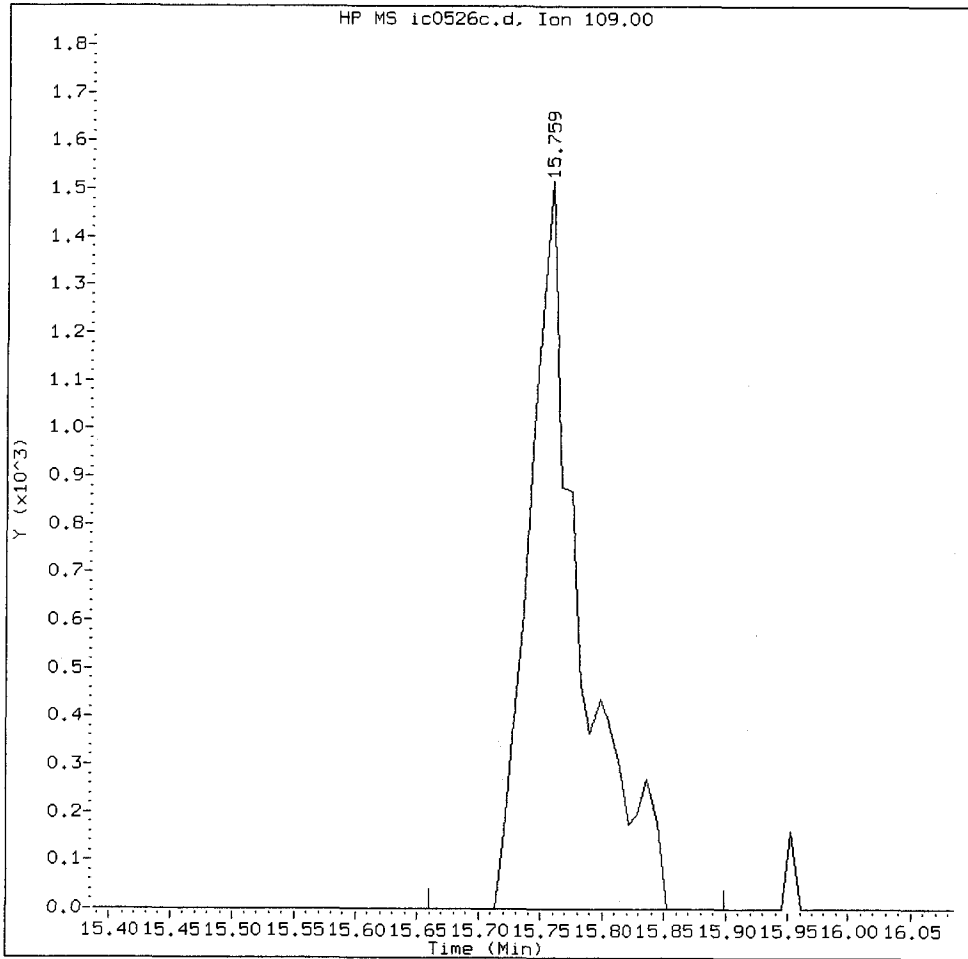
Compound: 4-Nitrophenol
CAS Number: 100-02-7



0052:00455

ABN.2, /chem1/nt10.i/20120526.b/ic0526c.d

4-Nitrophenol Amount: 0.33 Area: 4402



MANUAL INTEGRATION for 4-Nitrophenol

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Y2

Date: 5/30/12

CO-ELUTION SUMMARY FOR FILE - ic0526c.d

Lab ID: ABN.2, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 5/30/12

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526d.d
 Lab Smp Id: ABN10
 Inj Date : 26-MAY-2012 12:50
 Operator : VTS/YZ
 Smp Info : ABN10
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 12:50
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526d.d
 Calibration Sample, Level: 6
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 655505 | 10.0000 | 10.26 |
| \$ 2 Phenol-d5 | 99 | 8.237 | 8.229 | (0.930) | 824652 | 10.0000 | 10.26 |
| 3 Phenol | 94 | 8.260 | 8.252 | (0.933) | 847599 | 10.0000 | 9.806 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.484 | 8.476 | (0.958) | 694525 | 10.0000 | 9.942 |
| 4 Bis(2-Chloroethyl)ether | 93 | 8.407 | 8.399 | (0.949) | 618894 | 10.0000 | 9.862 |
| 6 2-Chlorophenol | 128 | 8.515 | 8.507 | (0.962) | 797745 | 10.0000 | 10.42 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 732663 | 10.0000 | 9.839 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.855 | 8.856 | (1.000) | 182402 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.894 | 8.887 | (1.004) | 722690 | 10.0000 | 9.922 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 459065 | 10.0000 | 10.01 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 703357 | 10.0000 | 9.947 |
| 11 Benzyl alcohol | 108 | 9.174 | 9.166 | (1.036) | 380848 | 10.0000 | 10.23 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.492 | 9.492 | (1.072) | 226522 | 10.0000 | 9.772 |
| 13 2-Methylphenol | 108 | 9.438 | 9.430 | (1.066) | 670901 | 10.0000 | 9.918 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 287787 | 10.0000 | 10.06 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.771 | 9.756 | (1.103) | 387935 | 10.0000 | 10.03 |
| 15 4-Methylphenol | 108 | 9.733 | 9.725 | (1.099) | 702883 | 10.0000 | 10.10 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.028 | 10.020 | (0.872) | 644910 | 10.0000 | 10.03 |
| 19 Nitrobenzene | 77 | 10.066 | 10.059 | (0.875) | 627554 | 10.0000 | 9.907 |
| 20 Isophorone | 82 | 10.555 | 10.540 | (0.918) | 1215421 | 10.0000 | 9.981 |
| 21 2-Nitrophenol | 139 | 10.741 | 10.733 | (0.934) | 414864 | 10.0000 | 10.17 |
| 22 2,4-Dimethylphenol | 107 | 10.841 | 10.833 | (0.942) | 1255466 | 20.0000 | 20.00 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.034 | 11.034 | (0.959) | 696518 | 10.0000 | 9.834 |
| 24 Benzoic acid | 105 | 11.157 | 10.995 | (0.970) | 1808839 | 40.0000 | 48.16 |
| 25 2,4-Dichlorophenol | 162 | 11.234 | 11.226 | (0.977) | 1296217 | 20.0000 | 21.49 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.419 | 11.411 | (0.993) | 562098 | 10.0000 | 9.804 |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.496 | (1.000) | 714951 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.003) | 1826784 | 10.0000 | 10.07 |
| 29 4-Chloroaniline | 127 | 11.712 | 11.705 | (1.018) | 1628277 | 20.0000 | 20.40 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.039) | 312917 | 10.0000 | 10.09 |
| 31 4-Chloro-3-methylphenol | 107 | 12.780 | 12.772 | (1.111) | 1161378 | 20.0000 | 20.83 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 1288499 | 10.0000 | 10.13 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.881) | 633343 | 20.0000 | 20.41 |
| 34 2,4,6-Trichlorophenol | 196 | 13.732 | 13.724 | (0.893) | 833358 | 20.0000 | 20.93 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 910701 | 20.0000 | 21.16 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 1389295 | 10.0000 | 10.15 |
| 37 2-Chloronaphthalene | 162 | 14.104 | 14.104 | (0.917) | 1195001 | 10.0000 | 10.18 |
| 38 2-Nitroaniline | 65 | 14.413 | 14.398 | (0.937) | 585866 | 20.0000 | 20.65 |
| 39 Dimethylphthalate | 163 | 14.893 | 14.885 | (0.968) | 1207636 | 10.0000 | 10.08 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.977) | 1806327 | 10.0000 | 10.17 |
| 41 2,6-Dinitrotoluene | 165 | 15.032 | 15.025 | (0.977) | 619587 | 20.0000 | 20.95 |
| * 42 Acenaphthene-d10 | 164 | 15.380 | 15.373 | (1.000) | 396335 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.334 | 15.319 | (0.997) | 702183 | 20.0000 | 21.04 |
| 44 Acenaphthene | 153 | 15.450 | 15.442 | (1.005) | 1092888 | 10.0000 | 10.13 |
| 45 2,4-Dinitrophenol | 184 | 15.566 | 15.558 | (1.012) | 859509 | 40.0000 | 41.13 |
| 46 Dibenzofuran | 168 | 15.806 | 15.798 | (1.028) | 1594733 | 10.0000 | 10.19 |
| 47 4-Nitrophenol | 109 | 15.736 | 15.736 | (1.023) | 299258 | 20.0000 | 22.44 |
| 48 2,4-Dinitrotoluene | 165 | 15.906 | 15.891 | (1.034) | 818828 | 20.0000 | 21.38 |
| 50 Diethylphthalate | 149 | 16.478 | 16.463 | (1.071) | 1158937 | 10.0000 | 9.948 |
| 49 Fluorene | 166 | 16.571 | 16.563 | (1.077) | 1194717 | 10.0000 | 9.899 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.587 | 16.579 | (1.078) | 575381 | 10.0000 | 10.08 |
| 52 4-Nitroaniline | 138 | 16.702 | 16.687 | (1.086) | 669670 | 20.0000 | 20.35 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.810 | 16.795 | (0.902) | 1114006 | 40.0000 | 48.94 |
| 54 N-Nitrosodiphenylamine | 169 | 16.864 | 16.857 | (0.905) | 787846 | 10.0000 | 9.944 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.150 | 17.142 | (1.115) | 172891 | 10.0000 | 10.43 |
| 56 4-Bromophenyl-phenylether | 248 | 17.658 | 17.659 | (0.947) | 334345 | 10.0000 | 10.25 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.976 | (0.964) | 366099 | 10.0000 | 10.06 |
| 58 Pentachlorophenol | 266 | 18.378 | 18.386 | (0.986) | 411314 | 20.0000 | 24.43 |
| * 59 Phenanthrene-d10 | 188 | 18.641 | 18.633 | (1.000) | 598080 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.688 | 18.680 | (1.002) | 1556366 | 10.0000 | 9.913 |
| 61 Anthracene | 178 | 18.788 | 18.780 | (1.008) | 1648643 | 10.0000 | 10.05 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 1330828 | 10.0000 | 9.185 |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.073) | 2222416 | 10.0000 | 10.27 |
| 64 Fluoranthene | 202 | 21.109 | 21.102 | (1.132) | 1821789 | 10.0000 | 10.12 |
| 65 Pyrene | 202 | 21.527 | 21.519 | (0.908) | 1912993 | 10.0000 | 10.04 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.837 | (0.921) | 1152011 | 10.0000 | 9.806 |
| 67 Butylbenzylphthalate | 149 | 22.789 | 22.781 | (0.961) | 858848 | 10.0000 | 9.784 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 1731963 | 10.0000 | 9.778 |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.703 | (1.000) | 620456 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.664 | 23.656 | (0.998) | 1666326 | 20.0000 | 18.13 |
| 71 Chrysene | 228 | 23.757 | 23.749 | (1.002) | 1566433 | 10.0000 | 10.06 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.826 | 23.819 | (0.961) | 1335029 | 10.0000 | 9.852 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 977954 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 2343993 | 10.0000 | 9.819 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ----- | ---- | == | ===== | ===== | ----- | ----- | ----- |
| 74 Benzo(b)fluoranthene | 252 | 25.452 | 25.444 | (0.975) | 1746381 | 10.0000 | 9.676 |
| 75 Benzo(k)fluoranthene | 252 | 25.491 | 25.483 | (0.977) | 1965512 | 10.0000 | 10.46 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 | (0.996) | 1632289 | 10.0000 | 10.00 |
| * 77 Perylene-d12 | 264 | 26.102 | 26.103 | (1.000) | 621376 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.350 | 28.334 | (1.086) | 1955515 | 10.0000 | 10.35 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.365 | 28.357 | (1.087) | 1559638 | 10.0000 | 10.47 |
| 80 Benzo(g,h,i)perylene | 276 | 29.010 | 28.987 | (1.111) | 1665774 | 10.0000 | 10.21 |
| 90 N-Nitrosodimethylamine | 74 | 4.274 | 4.266 | (0.483) | 750621 | 20.0000 | 19.89 |
| 91 Aniline | 93 | 8.299 | 8.291 | (0.937) | 1766633 | 10.0000 | 9.892 |
| 93 Benzidine | 184 | 21.372 | 21.365 | (0.901) | 1368200 | 20.0000 | 20.66 |
| 103 Pyridine | 79 | 4.274 | 4.290 | (0.483) | 648393 | 20.0000 | 20.03 |
| 105 1-methylnaphthalene | 142 | 13.283 | 13.275 | (1.155) | 1319734 | 10.0000 | 10.17 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.934 | 16.926 | (1.101) | 1197352 | 10.0000 | 10.08 |
| 187 Total Benzofluoranthenes | 252 | 25.491 | 25.483 | (0.977) | 3492403 | 20.0000 | 20.11 |
| 99 Perylene | 252 | 26.157 | 26.149 | (1.002) | 1639350 | 10.0000 | 10.00 |
| 98 Retene | 219 | 22.131 | 22.131 | (0.933) | 907426 | 10.0000 | 10.10 |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526d.d
 Lab Smp Id: ABN10
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND ===== | STANDARD ===== | AREA LIMIT | | SAMPLE ===== | %DIFF ===== |
|-----------------------|-------------------|------------|---------|-----------------|----------------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 182402 | -3.75 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 714951 | -2.19 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 396335 | -5.79 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 598080 | -6.40 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 620456 | -3.81 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 977954 | -3.76 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 621376 | -4.41 |

| COMPOUND ===== | STANDARD ===== | RT LIMIT | | SAMPLE ===== | %DIFF ===== |
|-----------------------|-------------------|----------|-------|-----------------|----------------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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.

Date : 26-MAY-2012 12:50

Client ID:

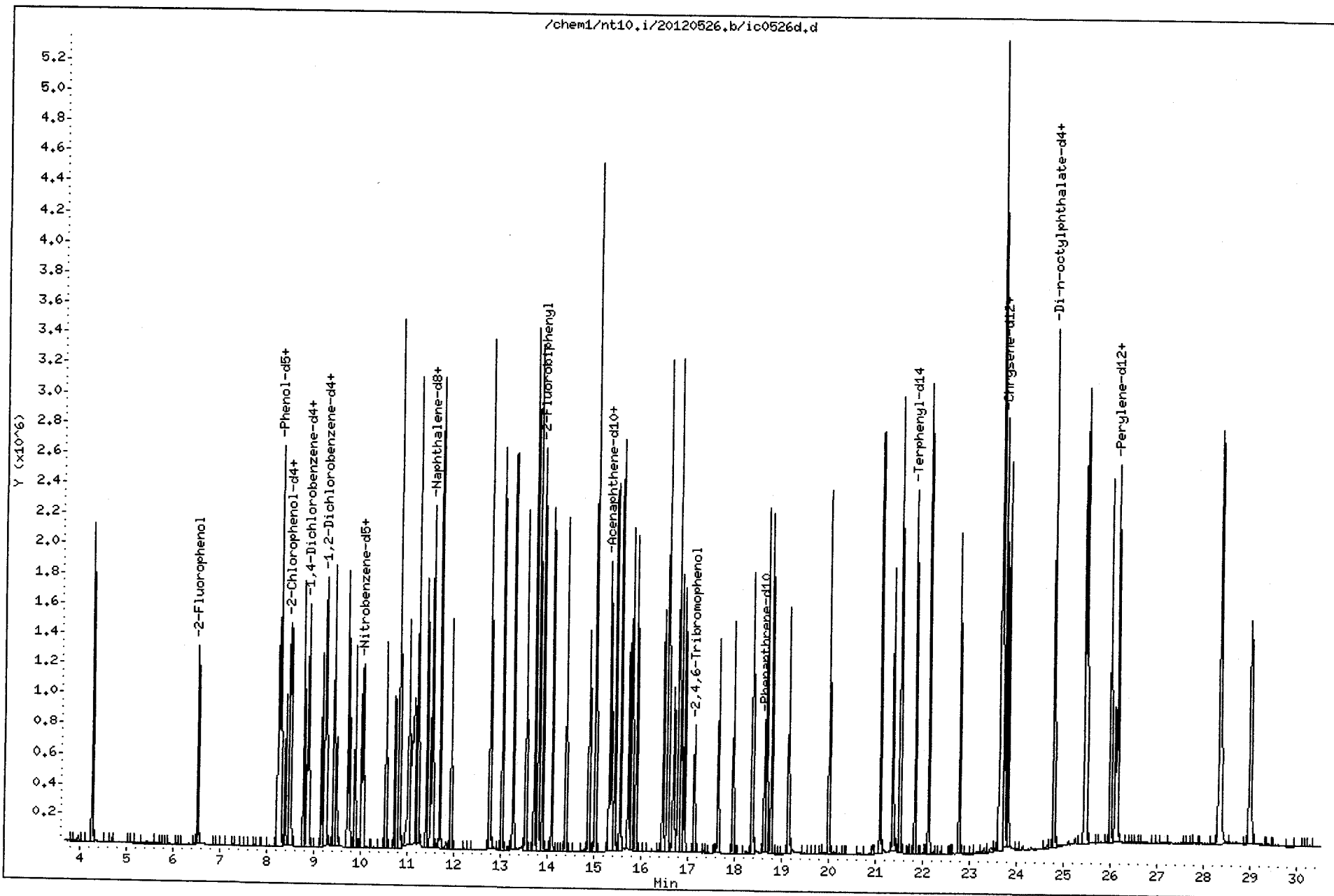
Sample Info: ABN10

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0.25

Column phase: ZB-5msi



0052:00162

CO-ELUTION SUMMARY FOR FILE - ic0526d.d

Lab ID: ABN10, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

15.032 Acenaphthylene and 2,6-Dinitrotoluene

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

yz 5/31/12

Data file : /chem1/nt10.i/20120526.b/ic0526e.d
 Lab Smp Id: ABN.5
 Inj Date : 26-MAY-2012 13:27
 Operator : VTS/YZ
 Smp Info : ABN.5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 13:27
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526e.d
 Calibration Sample, Level: 2
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 33072 | 0.50000 | 0.4966 |
| \$ 2 Phenol-d5 | 99 | 8.237 | 8.229 | (0.930) | 40401 | 0.50000 | 0.4850 |
| 3 Phenol | 94 | 8.252 | 8.252 | (0.932) | 42434 | 0.50000 | 0.4758 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.476 | 8.476 | (0.957) | 36271 | 0.50000 | 0.4978 |
| 4 Bis(2-Chloroethyl) ether | 93 | 8.399 | 8.399 | (0.948) | 33015 | 0.50000 | 0.5031 |
| 6 2-Chlorophenol | 128 | 8.507 | 8.507 | (0.961) | 37190 | 0.50000 | 0.4717 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 39229 | 0.50000 | 0.5036 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.856 | 8.856 | (1.000) | 190457 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.887 | 8.887 | (1.004) | 38429 | 0.50000 | 0.5042 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 23171 | 0.50000 | 0.4871 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 37355 | 0.50000 | 0.5048 |
| 11 Benzyl alcohol | 108 | 9.166 | 9.166 | (1.035) | 17957 | 0.50000 | 0.4692 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.492 | 9.492 | (1.072) | 12420 | 0.50000 | 0.5105 |
| 13 2-Methylphenol | 108 | 9.430 | 9.430 | (1.065) | 33661 | 0.50000 | 0.4811 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 14685 | 0.50000 | 0.4934 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.764 | 9.756 | (1.103) | 21002 | 0.50000 | 0.5158 |
| 15 4-Methylphenol | 108 | 9.725 | 9.725 | (1.098) | 36146 | 0.50000 | 0.4981 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.020 | 10.020 | (0.872) | 32267 | 0.50000 | 0.4856 |
| 19 Nitrobenzene | 77 | 10.059 | 10.059 | (0.875) | 32553 | 0.50000 | 0.4952 |
| 20 Isophorone | 82 | 10.540 | 10.540 | (0.917) | 57171 | 0.50000 | 0.4602 |
| 21 2-Nitrophenol | 139 | 10.733 | 10.733 | (0.934) | 19163 | 0.50000 | 0.4605 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 63271 | 1.00000 | 0.9751 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.034 | 11.034 | (0.960) | 36342 | 0.50000 | 0.4945 |
| 24 Benzoic acid | 105 | 10.972 | 10.995 | (0.954) | 34874 | 2.00000 | 1.004 |
| 25 2,4-Dichlorophenol | 162 | 11.226 | 11.226 | (0.976) | 62547 | 1.00000 | 0.9976 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.411 | 11.411 | (0.993) | 30848 | 0.50000 | 0.5137 |
| * 27 Naphthalene-d8 | 136 | 11.496 | 11.496 | (1.000) | 743799 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.004) | 92023 | 0.50000 | 0.4898 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.018) | 75074 | 1.00000 | 0.9217 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.040) | 16167 | 0.50000 | 0.5009 |
| 31 4-Chloro-3-methylphenol | 107 | 12.780 | 12.772 | (1.112) | 51481 | 1.00000 | 0.9079 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.135) | 62715 | 0.50000 | 0.4789 |
| 33 Hexachlorocyclopentadiene | 237 | 13.546 | 13.554 | (0.881) | 11564 | 1.00000 | 0.4342 |
| 34 2,4,6-Trichlorophenol | 196 | 13.724 | 13.724 | (0.893) | 36559 | 1.00000 | 0.9184 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 37583 | 1.00000 | 0.8814 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 70164 | 0.50000 | 0.5017 |
| 37 2-Chloronaphthalene | 162 | 14.104 | 14.104 | (0.917) | 58403 | 0.50000 | 0.4902 |
| 38 2-Nitroaniline | 65 | 14.398 | 14.398 | (0.937) | 27357 | 1.00000 | 0.9555 |
| 39 Dimethylphthalate | 163 | 14.885 | 14.885 | (0.968) | 62531 | 0.50000 | 0.5093 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 90527 | 0.50000 | 0.4996 |
| 41 2,6-Dinitrotoluene | 165 | 15.025 | 15.025 | (0.977) | 29070 | 1.00000 | 0.9706 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 404393 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.319 | 15.319 | (0.996) | 33417 | 1.00000 | 0.9851 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 53337 | 0.50000 | 0.4877 |
| 45 2,4-Dinitrophenol | 184 | 15.566 | 15.558 | (1.013) | 6885 | 2.00000 | 0.3414 (M) |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 78730 | 0.50000 | 0.4945 |
| 47 4-Nitrophenol | 109 | 15.752 | 15.736 | (1.025) | 11307 | 1.00000 | 0.8600 |
| 48 2,4-Dinitrotoluene | 165 | 15.891 | 15.891 | (1.034) | 36832 | 1.00000 | 0.9536 |
| 50 Diethylphthalate | 149 | 16.463 | 16.463 | (1.071) | 62167 | 0.50000 | 0.5182 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 61043 | 0.50000 | 0.4965 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 28825 | 0.50000 | 0.4957 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 36218 | 1.00000 | 1.062 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.795 | 16.795 | (0.901) | 33741 | 2.00000 | 1.491 |
| 54 N-Nitrosodiphenylamine | 169 | 16.857 | 16.857 | (0.905) | 43484 | 0.50000 | 0.5152 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 7941 | 0.50000 | 0.4753 |
| 56 4-Bromophenyl-phenylether | 248 | 17.659 | 17.659 | (0.948) | 15870 | 0.50000 | 0.4678 |
| 57 Hexachlorobenzene | 284 | 17.976 | 17.976 | (0.965) | 20014 | 0.50000 | 0.5159 |
| 58 Pentachlorophenol | 266 | 18.386 | 18.386 | (0.987) | 8182 | 1.00000 | 0.5155 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 632241 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.680 | 18.680 | (1.002) | 77109 | 0.50000 | 0.4713 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 81440 | 0.50000 | 0.4753 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 82015 | 0.50000 | 0.5280 |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.074) | 100979 | 0.50000 | 0.4520 |
| 64 Fluoranthene | 202 | 21.102 | 21.102 | (1.132) | 87728 | 0.50000 | 0.4682 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 91993 | 0.50000 | 0.4771 |
| \$ 66 Terphenyl-d14 | 244 | 21.837 | 21.837 | (0.921) | 59941 | 0.50000 | 0.4990 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 44063 | 0.50000 | 0.4925 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 86535 | 0.50000 | 0.4819 |
| * 69 Chrysene-d12 | 240 | 23.703 | 23.703 | (1.000) | 634764 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 100566 | 1.00000 | 1.051 |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 75560 | 0.50000 | 0.4794 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.819 | (0.961) | 64302 | 0.50000 | 0.4973 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 934301 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 112510 | 0.50000 | 0.4946 |

| Compounds | QUANT SIG | | | AMOUNTS | | |
|-----------------------------------|-----------|--------|----------------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== 74 Benzo(b)fluoranthene | 252 | 25.444 | 25.444 (0.975) | 82471 | 0.50000 | 0.4628 |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 (0.976) | 100390 | 0.50000 | 0.5246 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 (0.996) | 76879 | 0.50000 | 0.4744 |
| * 77 Perylene-d12 | 264 | 26.103 | 26.103 (1.000) | 624951 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.342 | 28.334 (1.086) | 87409 | 0.50000 | 0.4674 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.357 | 28.357 (1.086) | 67688 | 0.50000 | 0.4607 |
| 80 Benzo(g,h,i)perylene | 276 | 28.987 | 28.987 (1.110) | 74485 | 0.50000 | 0.4623 |
| 90 N-Nitrosodimethylamine | 74 | 4.266 | 4.266 (0.482) | 39674 | 1.00000 | 1.005 |
| 91 Aniline | 93 | 8.291 | 8.291 (0.936) | 94480 | 0.50000 | 0.5053 |
| 93 Benzidine | 184 | 21.365 | 21.365 (0.901) | 74104 | 1.00000 | 1.260 |
| 103 Pyridine | 79 | 4.290 | 4.290 (0.484) | 33098 | 1.00000 | 0.9831 |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 (1.155) | 64158 | 0.50000 | 0.4799 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 (1.101) | 61411 | 0.50000 | 0.5055 |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 (0.976) | 170479 | 1.00000 | 0.9808 |
| 99 Perylene | 252 | 26.149 | 26.149 (1.002) | 78454 | 0.50000 | 0.4805 |
| 98 Retene | 219 | 22.131 | 22.131 (0.934) | 42668 | 0.50000 | 0.4708 |

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: ic0526e.d
 Lab Smp Id: ABN.5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

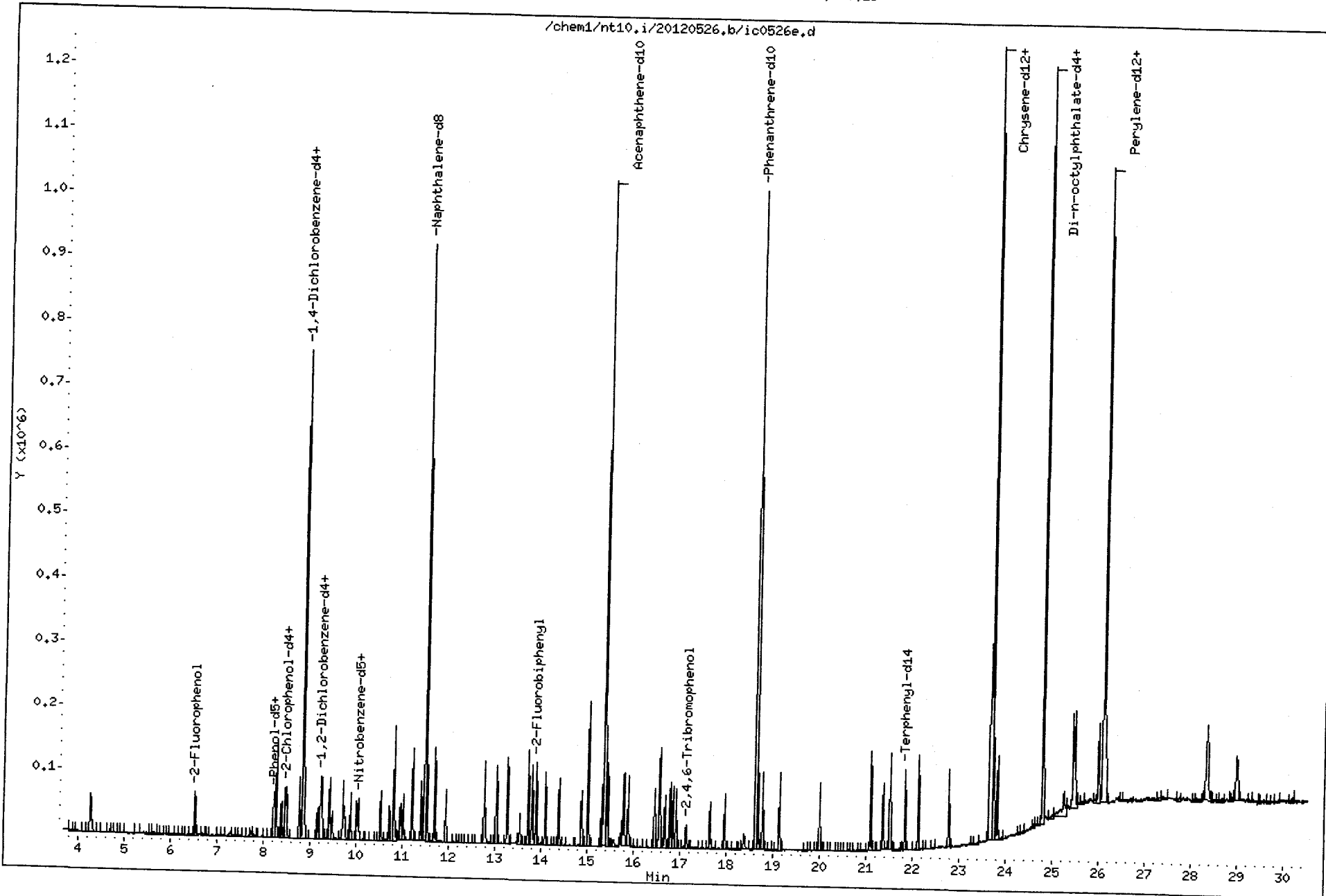
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 190457 | 0.50 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 743799 | 1.76 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 404393 | -3.88 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 632241 | -1.05 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 634764 | -1.60 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 934301 | -8.05 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 624951 | -3.86 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 0.00 |

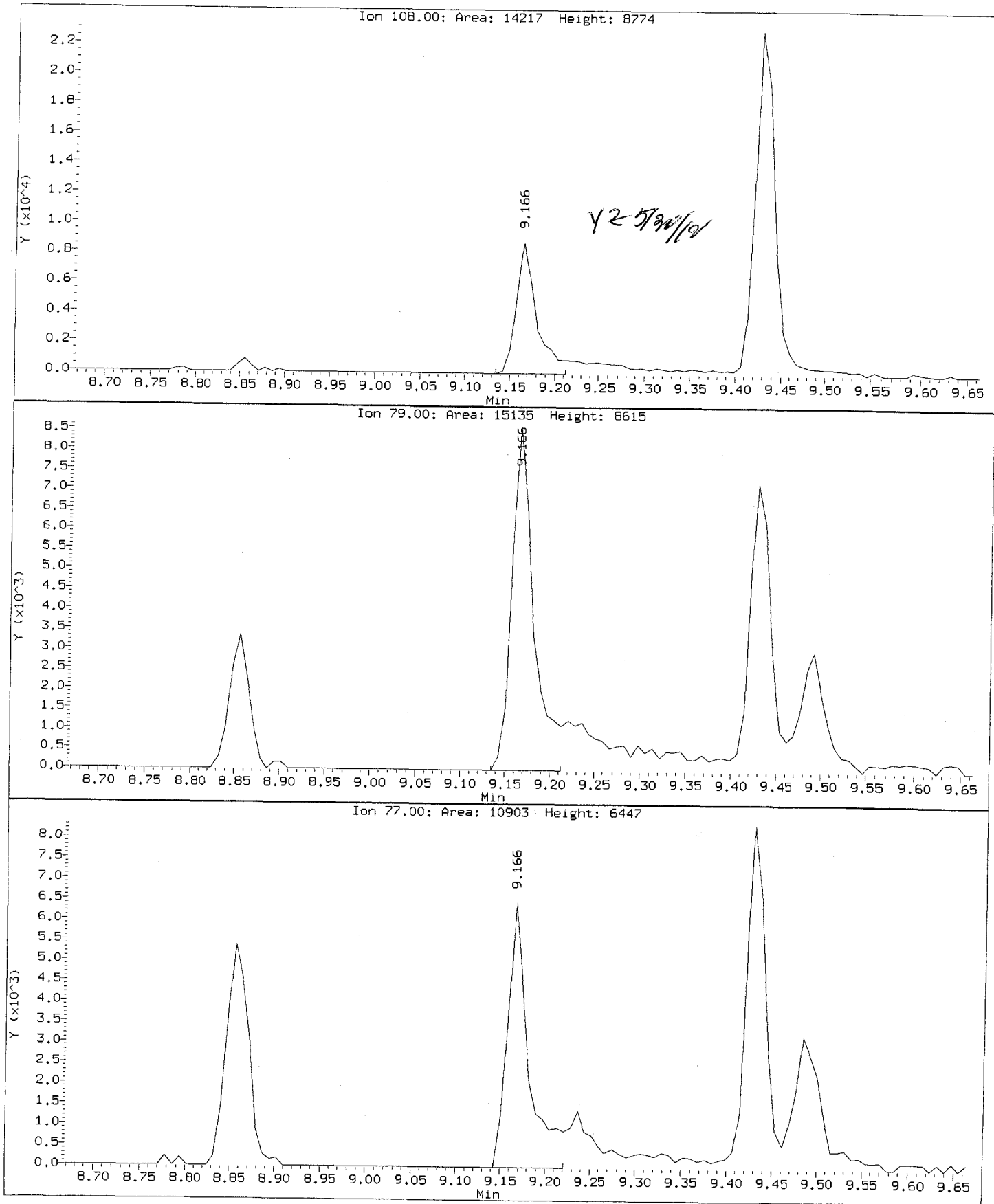
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



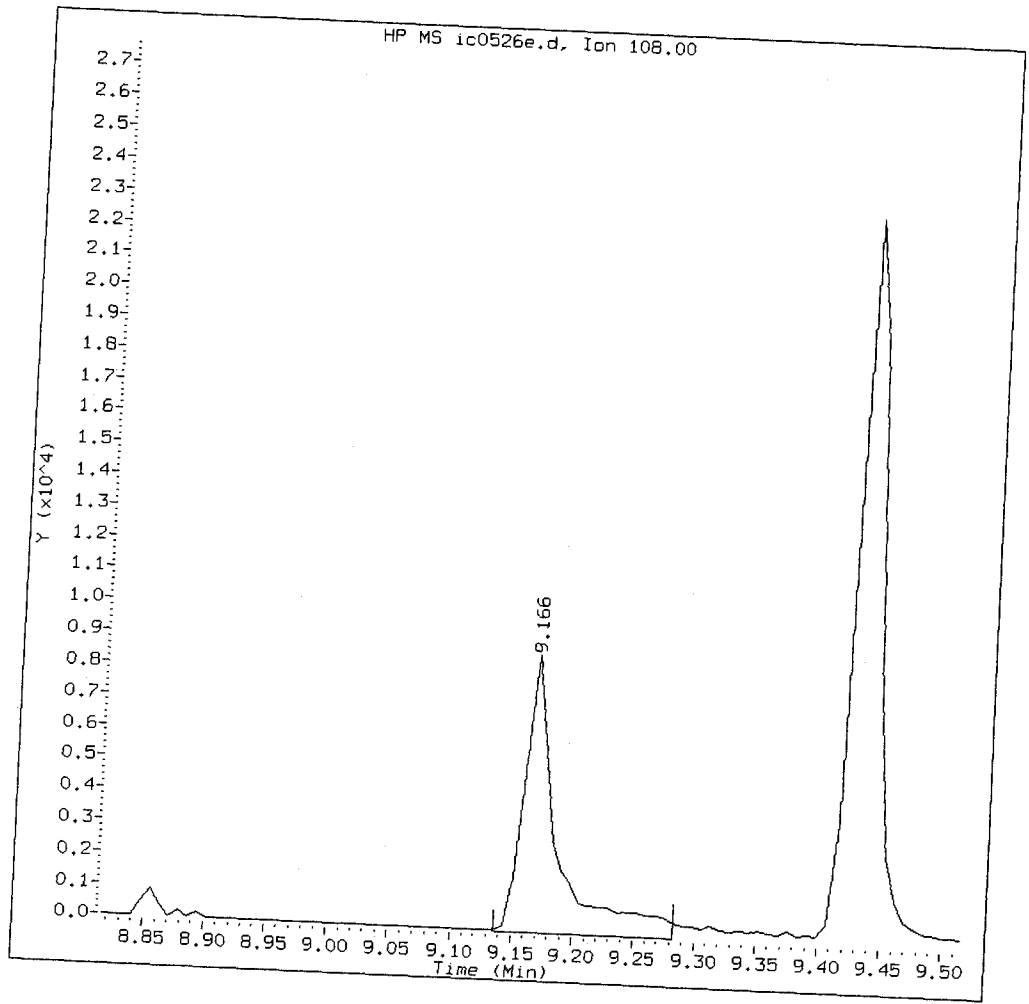
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Data File: /chem1/nt10.i/20120526.b/ic0526e.d
Injection Date: 26-MAY-2012 13:27
Instrument: nt10.i
Client Sample ID:

Compound: Benzyl alcohol
CAS Number: 100-51-6



ABN.5, /chem1/nt10.i/20120526.b/ic0526e.d
Benzyl alcohol Amount: 0.47 Area: 17957



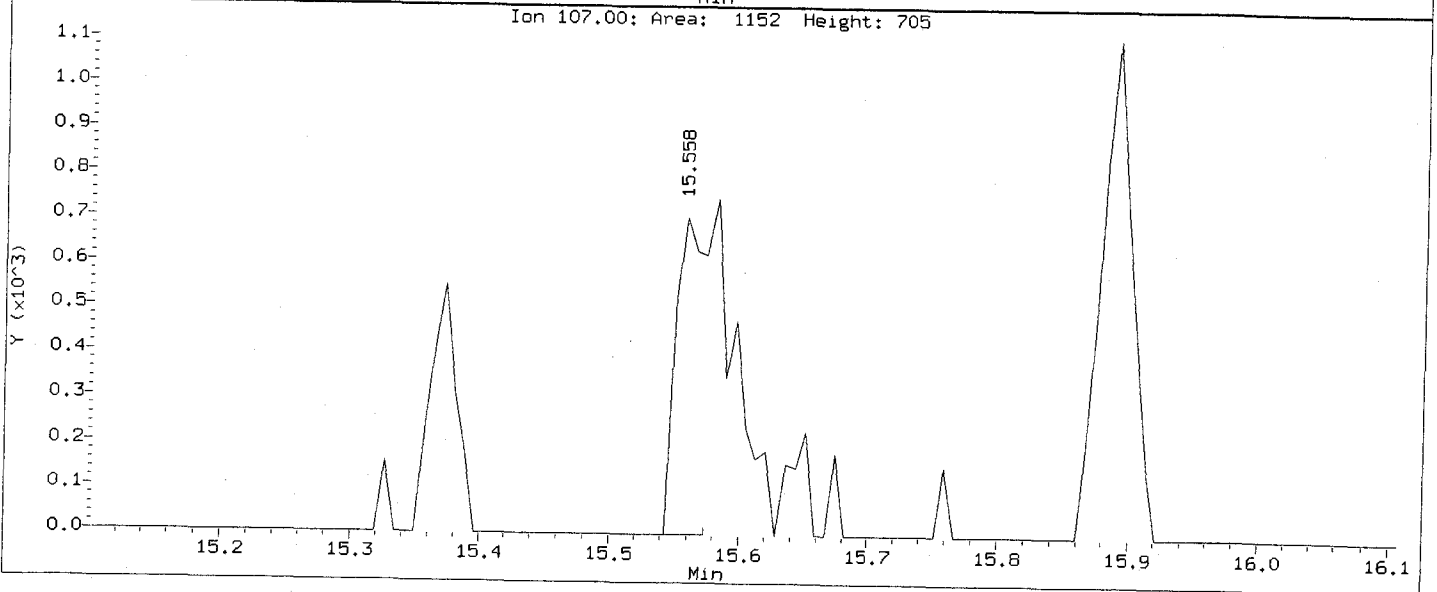
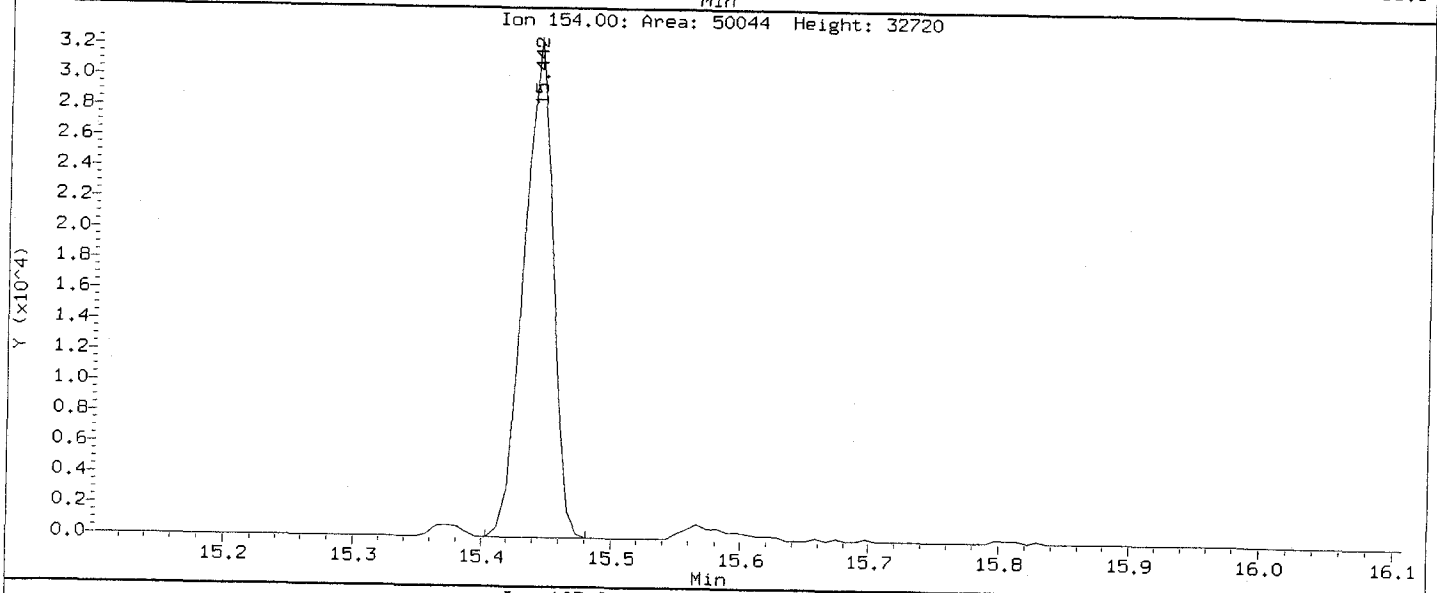
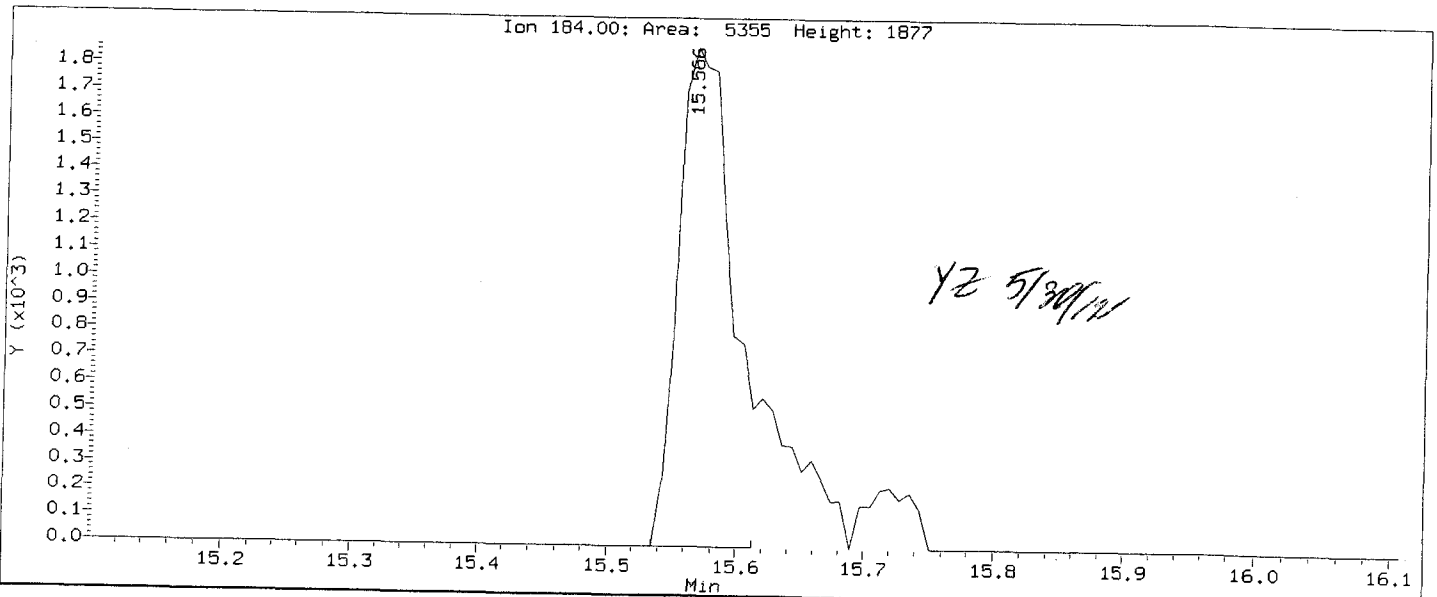
MANUAL INTEGRATION for Benzyl alcohol

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: V2 Date: 5/26/9

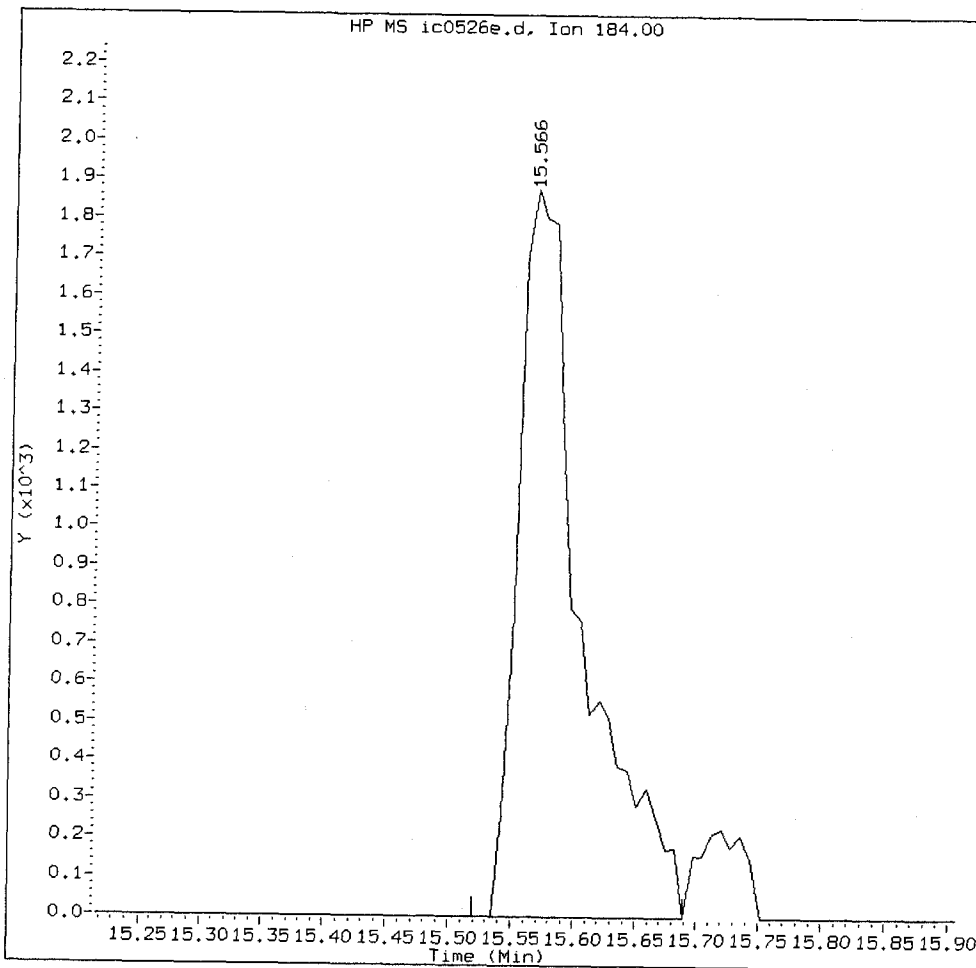
Data File: /chem1/nt10.1/20120526.b/1c0526e.d
Injection Date: 26-MAY-2012 13:27
Instrument: nt10.i
Client Sample ID:

Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5



ABN.5, /chem1/nt10.i/20120526.b/ic0526e.d

2,4-Dinitrophenol Amount: 0.34 Area: 6885



MANUAL INTEGRATION for 2,4-Dinitrophenol

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 5/24/12

CO-ELUTION SUMMARY FOR FILE - ic0526e.d

Lab ID: ABN.5, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

ye 7/21/12

Semivolatiles Report SW846 Method 8270D
 Data file : /chem1/nt10.i/20120526.b/ic0526f.d
 Lab Smp Id: ABN2.5
 Inj Date : 26-MAY-2012 14:05
 Operator : VTS/YZ
 Smp Info : ABN2.5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 14:05
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: ic0526f.d
 Calibration Sample, Level: 4

Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT | SIG | AMOUNTS | | | | |
|---------------------------------|-------|-------|---------|----------------|---------------|----------|-----------------|
| | | | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ug/mL) |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | == | 6.537 | 6.537 (0.738) | 163966 | 2.50000 | 2.504 |
| \$ 2 Phenol-d5 | 99 | == | 8.237 | 8.229 (0.930) | 203560 | 2.50000 | 2.488 |
| 3 Phenol | 94 | == | 8.252 | 8.252 (0.932) | 214943 | 2.50000 | 2.460 |
| \$ 5 2-Chlorophenol-d4 | 132 | == | 8.476 | 8.476 (0.957) | 175190 | 2.50000 | 2.455 |
| 4 Bis(2-Chloroethyl)ether | 93 | == | 8.399 | 8.399 (0.948) | 161405 | 2.50000 | 2.502 |
| 6 2-Chlorophenol | 128 | == | 8.507 | 8.507 (0.961) | 187141 | 2.50000 | 2.428 |
| 7 1,3-Dichlorobenzene | 146 | == | 8.786 | 8.786 (0.992) | 193358 | 2.50000 | 2.521 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | == | 8.855 | 8.856 (1.000) | 187226 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | == | 8.886 | 8.887 (1.004) | 188831 | 2.50000 | 2.517 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | == | 9.236 | 9.236 (1.043) | 116707 | 2.50000 | 2.496 |
| 12 1,2-Dichlorobenzene | 146 | == | 9.267 | 9.267 (1.046) | 182496 | 2.50000 | 2.507 |
| 11 Benzyl alcohol | 108 | == | 9.166 | 9.166 (1.035) | 88501 | 2.50000 | 2.376 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | == | 9.492 | 9.492 (1.072) | 58372 | 2.50000 | 2.450 |
| 13 2-Methylphenol | 108 | == | 9.430 | 9.430 (1.065) | 169060 | 2.50000 | 2.465 |
| 17 Hexachloroethane | 117 | == | 9.888 | 9.888 (1.117) | 72338 | 2.50000 | 2.477 |
| 16 N-Nitroso-di-n-propylamine | 70 | == | 9.764 | 9.756 (1.103) | 103017 | 2.50000 | 2.561 |
| 15 4-Methylphenol | 108 | == | 9.725 | 9.725 (1.098) | 181313 | 2.50000 | 2.535 |
| \$ 18 Nitrobenzene-d5 | 82 | == | 10.027 | 10.020 (0.872) | 165680 | 2.50000 | 2.515 |
| 19 Nitrobenzene | 77 | == | 10.059 | 10.059 (0.875) | 159420 | 2.50000 | 2.457 |
| 20 Isophorone | 82 | == | 10.547 | 10.540 (0.917) | 300995 | 2.50000 | 2.456 |
| 21 2-Nitrophenol | 139 | == | 10.733 | 10.733 (0.934) | 101431 | 2.50000 | 2.468 |
| 22 2,4-Dimethylphenol | 107 | == | 10.833 | 10.833 (0.942) | 327809 | 5.00000 | 5.084 |
| 23 Bis(2-Chloroethoxy)methane | 93 | == | 11.034 | 11.034 (0.960) | 178112 | 2.50000 | 2.456 |
| 24 Benzoic acid | 105 | == | 11.041 | 10.995 (0.960) | 346329 | 10.00000 | 10.05 |
| 25 2,4-Dichlorophenol | 162 | == | 11.234 | 11.226 (0.977) | 318485 | 5.00000 | 5.108 |
| 26 1,2,4-Trichlorobenzene | 180 | == | 11.419 | 11.411 (0.993) | 144832 | 2.50000 | 2.446 |
| * 27 Naphthalene-d8 | 136 | == | 11.496 | 11.496 (1.000) | 736534 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.004) | 454524 | 2.50000 | 2.453 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.018) | 446445 | 5.00000 | 5.438 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.040) | 79815 | 2.50000 | 2.498 |
| 31 4-Chloro-3-methylphenol | 107 | 12.772 | 12.772 | (1.111) | 277006 | 5.00000 | 4.944 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.135) | 319263 | 2.50000 | 2.468 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.882) | 116347 | 5.00000 | 4.534 |
| 34 2,4,6-Trichlorophenol | 196 | 13.724 | 13.724 | (0.893) | 202780 | 5.00000 | 5.139 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 213973 | 5.00000 | 5.075 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 350050 | 2.50000 | 2.533 |
| 37 2-Chloronaphthalene | 162 | 14.103 | 14.104 | (0.917) | 296918 | 2.50000 | 2.524 |
| 38 2-Nitroaniline | 65 | 14.398 | 14.398 | (0.937) | 143668 | 5.00000 | 5.075 |
| 39 Dimethylphthalate | 163 | 14.893 | 14.885 | (0.969) | 312536 | 2.50000 | 2.568 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 450800 | 2.50000 | 2.520 |
| 41 2,6-Dinitrotoluene | 165 | 15.025 | 15.025 | (0.977) | 152535 | 5.00000 | 5.138 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 398626 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.326 | 15.319 | (0.997) | 172207 | 5.00000 | 5.124 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 272450 | 2.50000 | 2.523 |
| 45 2,4-Dinitrophenol | 184 | 15.550 | 15.558 | (1.012) | 137413 | 10.00000 | 8.623 |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 403546 | 2.50000 | 2.559 |
| 47 4-Nitrophenol | 109 | 15.728 | 15.736 | (1.023) | 68140 | 5.00000 | 5.213 |
| 48 2,4-Dinitrotoluene | 165 | 15.891 | 15.891 | (1.034) | 198671 | 5.00000 | 5.180 |
| 50 Diethylphthalate | 149 | 16.470 | 16.463 | (1.071) | 307774 | 2.50000 | 2.585 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 301793 | 2.50000 | 2.492 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 144930 | 2.50000 | 2.524 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 176757 | 5.00000 | 5.213 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.795 | 16.795 | (0.901) | 252721 | 10.00000 | 9.942 |
| 54 N-Nitrosodiphenylamine | 169 | 16.857 | 16.857 | (0.905) | 209250 | 2.50000 | 2.507 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 41145 | 2.50000 | 2.499 |
| 56 4-Bromophenyl-phenylether | 248 | 17.658 | 17.659 | (0.948) | 82575 | 2.50000 | 2.469 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.976 | (0.965) | 97159 | 2.50000 | 2.528 |
| 58 Pentachlorophenol | 266 | 18.378 | 18.386 | (0.986) | 76549 | 5.00000 | 4.373 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 624933 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.680 | 18.680 | (1.002) | 393807 | 2.50000 | 2.446 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 411608 | 2.50000 | 2.442 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 388580 | 2.50000 | 2.526 |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.074) | 535468 | 2.50000 | 2.437 |
| 64 Fluoranthene | 202 | 21.101 | 21.102 | (1.132) | 444971 | 2.50000 | 2.418 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 467901 | 2.50000 | 2.490 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.837 | (0.922) | 300747 | 2.50000 | 2.555 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 217413 | 2.50000 | 2.493 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 425208 | 2.50000 | 2.439 |
| * 69 Chrysene-d12 | 240 | 23.702 | 23.703 | (1.000) | 619154 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 494771 | 5.00000 | 5.240 |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 373335 | 2.50000 | 2.440 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.819 | (0.961) | 311745 | 2.50000 | 2.441 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 927369 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 554323 | 2.50000 | 2.463 |

| Compounds | QUANT SIG | | | RESPONSE | AMOUNTS | |
|-----------------------------------|-----------|--------|----------------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== 74 Benzo(b)fluoranthene | 252 | 25.444 | 25.444 (0.975) | 415398 | 2.50000 | 2.355 |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 (0.976) | 489418 | 2.50000 | 2.545 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 (0.996) | 396982 | 2.50000 | 2.455 |
| * 77 Perylene-d12 | 264 | 26.102 | 26.103 (1.000) | 625787 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.334 | 28.334 (1.085) | 474062 | 2.50000 | 2.526 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.357 | 28.357 (1.086) | 374919 | 2.50000 | 2.540 |
| 80 Benzo(g,h,i)perylene | 276 | 28.986 | 28.987 (1.110) | 400932 | 2.50000 | 2.488 |
| 90 N-Nitrosodimethylamine | 74 | 4.266 | 4.266 (0.482) | 197905 | 5.00000 | 5.084 |
| 91 Aniline | 93 | 8.291 | 8.291 (0.936) | 467689 | 2.50000 | 2.537 |
| 93 Benzidine | 184 | 21.364 | 21.365 (0.901) | 329105 | 5.00000 | 4.686 |
| 103 Pyridine | 79 | 4.282 | 4.290 (0.484) | 173343 | 5.00000 | 5.197 |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 (1.155) | 326983 | 2.50000 | 2.475 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 (1.101) | 310185 | 2.50000 | 2.575 |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 (0.976) | 847269 | 5.00000 | 4.890 |
| 99 Perylene | 252 | 26.149 | 26.149 (1.002) | 392397 | 2.50000 | 2.416 |
| 98 Retene | 219 | 22.131 | 22.131 (0.934) | 216647 | 2.50000 | 2.459 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526f.d
 Lab Smp Id: ABN2.5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

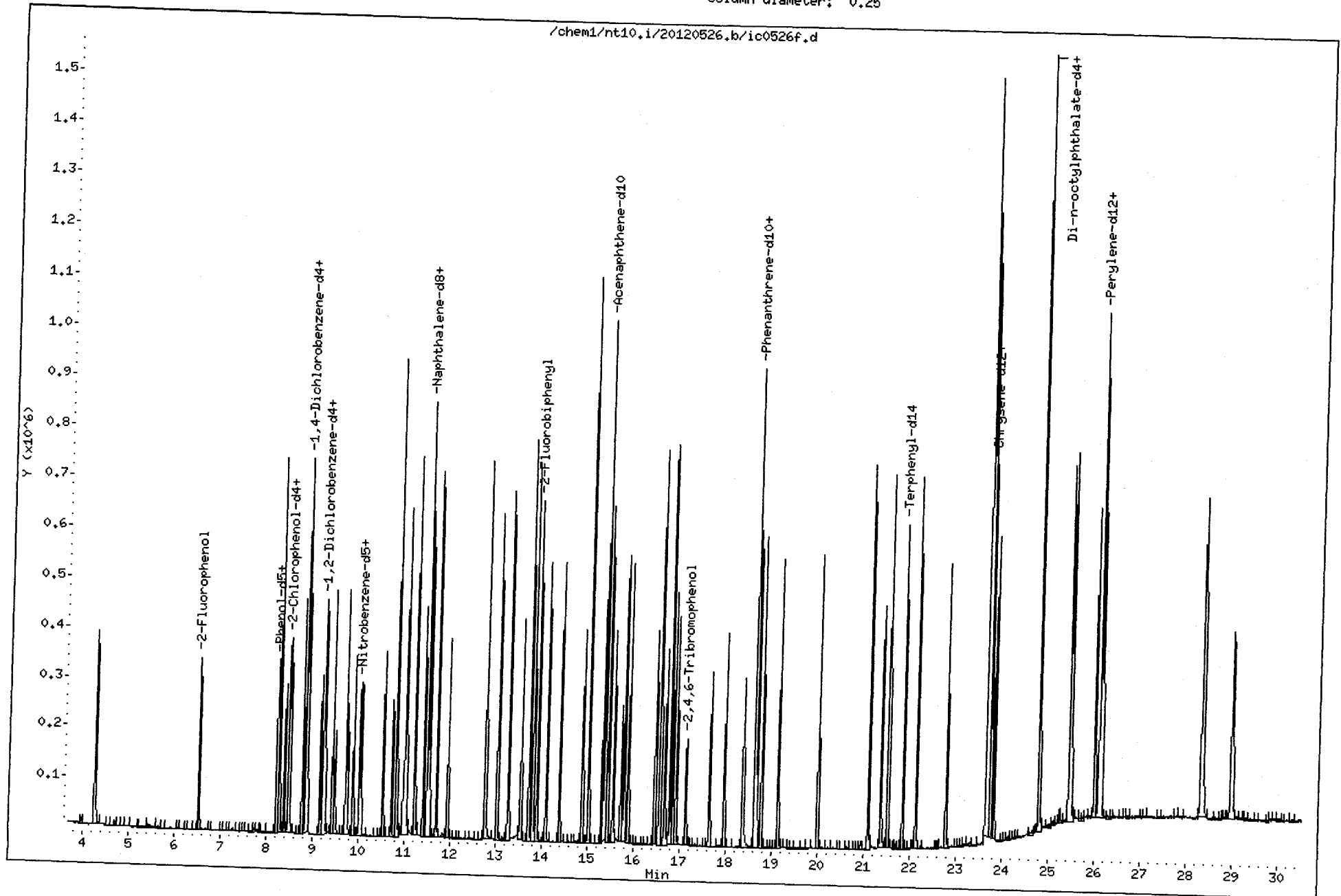
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 187226 | -1.21 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 736534 | 0.77 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 398626 | -5.25 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 624933 | -2.19 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 619154 | -4.02 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 927369 | -8.73 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 625787 | -3.73 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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.



CO-ELUTION SUMMARY FOR FILE - ic0526f.d

Lab ID: ABN2.5, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 7/20/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526g.d
 Lab Smp Id: ABN1.0
 Inj Date : 26-MAY-2012 14:42
 Operator : VTS/YZ
 Smp Info : ABN1.0
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 10:15 yev
 Cal Date : 26-MAY-2012 14:42
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526g.d
 Calibration Sample, Level: 3
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 67712 | 1.00000 | 0.9987 |
| \$ 2 Phenol-d5 | 99 | 8.229 | 8.229 | (0.929) | 82827 | 1.00000 | 0.9807 |
| 3 Phenol | 94 | 8.252 | 8.252 | (0.932) | 87196 | 1.00000 | 0.9686 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.476 | 8.476 | (0.957) | 74501 | 1.00000 | 1.007 |
| 4 Bis(2-Chloroethyl)ether | 93 | 8.399 | 8.399 | (0.948) | 68297 | 1.00000 | 1.019 |
| 6 2-Chlorophenol | 128 | 8.507 | 8.507 | (0.961) | 77627 | 1.00000 | 0.9765 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 80562 | 1.00000 | 1.012 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.856 | 8.856 | (1.000) | 193887 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.887 | 8.887 | (1.004) | 77656 | 1.00000 | 0.9996 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 49288 | 1.00000 | 1.015 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 78319 | 1.00000 | 1.033 |
| 11 Benzyl alcohol | 108 | 9.166 | 9.166 | (1.035) | 33270 | 1.00000 | 0.8797 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.492 | 9.492 | (1.072) | 24706 | 1.00000 | 1.001 |
| 13 2-Methylphenol | 108 | 9.430 | 9.430 | (1.065) | 70476 | 1.00000 | 0.9933 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 29826 | 1.00000 | 0.9882 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.756 | 9.756 | (1.102) | 42756 | 1.00000 | 1.023 |
| 15 4-Methylphenol | 108 | 9.725 | 9.725 | (1.098) | 73702 | 1.00000 | 0.9957 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.020 | 10.020 | (0.872) | 67950 | 1.00000 | 1.011 |
| 19 Nitrobenzene | 77 | 10.059 | 10.059 | (0.875) | 66607 | 1.00000 | 1.007 |
| 20 Isophorone | 82 | 10.540 | 10.540 | (0.917) | 123948 | 1.00000 | 0.9936 |
| 21 2-Nitrophenol | 139 | 10.733 | 10.733 | (0.934) | 40831 | 1.00000 | 0.9786 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 137179 | 2.00000 | 2.075 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.034 | 11.034 | (0.960) | 76763 | 1.00000 | 1.033 |
| 24 Benzoic acid | 105 | 10.995 | 10.995 | (0.956) | 97576 | 4.00000 | 2.907 |
| 25 2,4-Dichlorophenol | 162 | 11.226 | 11.226 | (0.976) | 127789 | 2.00000 | 2.010 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.411 | 11.411 | (0.993) | 61741 | 1.00000 | 1.020 |
| * 27 Naphthalene-d8 | 136 | 11.496 | 11.496 | (1.000) | 750391 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.004) | 191351 | 1.00000 | 1.012 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.018) | 176284 | 2.00000 | 2.092 |
| 30 Hexachlorobutadiene | 225 | 11.944 | 11.944 | (1.039) | 32510 | 1.00000 | 0.9988 |
| 31 4-Chloro-3-methylphenol | 107 | 12.772 | 12.772 | (1.111) | 113753 | 2.00000 | 1.994 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.135) | 129910 | 1.00000 | 0.9878 |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.882) | 35252 | 2.00000 | 1.409 |
| 34 2,4,6-Trichlorophenol | 196 | 13.724 | 13.724 | (0.893) | 78941 | 2.00000 | 1.946 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 85517 | 2.00000 | 1.969 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 142575 | 1.00000 | 0.9990 |
| 37 2-Chloronaphthalene | 162 | 14.104 | 14.104 | (0.917) | 124911 | 1.00000 | 1.024 |
| 38 2-Nitroaniline | 65 | 14.398 | 14.398 | (0.937) | 57672 | 2.00000 | 1.976 |
| 39 Dimethylphthalate | 163 | 14.885 | 14.885 | (0.968) | 131397 | 1.00000 | 1.039 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 185662 | 1.00000 | 1.004 |
| 41 2,6-Dinitrotoluene | 165 | 15.025 | 15.025 | (0.977) | 63520 | 2.00000 | 2.061 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 411692 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.319 | 15.319 | (0.996) | 70660 | 2.00000 | 2.031 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 111440 | 1.00000 | 0.9992 |
| 45 2,4-Dinitrophenol | 184 | 15.558 | 15.558 | (1.012) | 31710 | 4.00000 | 2.109 |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 166661 | 1.00000 | 1.020 |
| 47 4-Nitrophenol | 109 | 15.736 | 15.736 | (1.024) | 25473 | 2.00000 | 1.902 |
| 48 2,4-Dinitrotoluene | 165 | 15.891 | 15.891 | (1.034) | 81362 | 2.00000 | 2.046 |
| 50 Diethylphthalate | 149 | 16.463 | 16.463 | (1.071) | 125440 | 1.00000 | 1.017 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 125909 | 1.00000 | 1.006 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 60269 | 1.00000 | 1.014 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 77522 | 2.00000 | 2.180 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.795 | 16.795 | (0.901) | 88128 | 4.00000 | 3.497 |
| 54 N-Nitrosodiphenylamine | 169 | 16.857 | 16.857 | (0.905) | 89101 | 1.00000 | 1.043 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 16908 | 1.00000 | 0.9950 |
| 56 4-Bromophenyl-phenylether | 248 | 17.659 | 17.659 | (0.948) | 34045 | 1.00000 | 1.001 |
| 57 Hexachlorobenzene | 284 | 17.976 | 17.976 | (0.965) | 40047 | 1.00000 | 1.022 |
| 58 Pentachlorophenol | 266 | 18.386 | 18.386 | (0.987) | 24770 | 2.00000 | 1.467 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 635080 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.680 | 18.680 | (1.002) | 164484 | 1.00000 | 1.004 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 169650 | 1.00000 | 0.9917 |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 169887 | 1.00000 | 1.073 |
| 63 Di-n-butylphthalate | 149 | 20.003 | 20.003 | (1.073) | 219684 | 1.00000 | 0.9861 |
| 64 Fluoranthene | 202 | 21.102 | 21.102 | (1.132) | 179541 | 1.00000 | 0.9656 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 197362 | 1.00000 | 1.015 |
| \$ 66 Terphenyl-d14 | 244 | 21.837 | 21.837 | (0.921) | 123736 | 1.00000 | 1.016 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 91227 | 1.00000 | 1.012 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 178718 | 1.00000 | 0.9944 |
| * 69 Chrysene-d12 | 240 | 23.703 | 23.703 | (1.000) | 638910 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 206440 | 2.00000 | 2.098 |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 159367 | 1.00000 | 1.008 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.819 | (0.961) | 126524 | 1.00000 | 0.9823 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 937949 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 231357 | 1.00000 | 1.014 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== 74 Benzo(b)fluoranthene | 252 | 25.444 | 25.444 | (0.975) | 172850 | 1.00000 | 0.9793 |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 | (0.976) | 201900 | 1.00000 | 1.039 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 | (0.996) | 163104 | 1.00000 | 1.004 |
| * 77 Perylene-d12 | 264 | 26.103 | 26.103 | (1.000) | 628310 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.334 | 28.334 | (1.085) | 184943 | 1.00000 | 0.9841 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.357 | 28.357 | (1.086) | 147098 | 1.00000 | 0.9937 |
| 80 Benzo(g,h,i)perylene | 276 | 28.987 | 28.987 | (1.110) | 157075 | 1.00000 | 0.9747 |
| 90 N-Nitrosodimethylamine | 74 | 4.266 | 4.266 | (0.482) | 80663 | 2.00000 | 2.001 |
| 91 Aniline | 93 | 8.291 | 8.291 | (0.936) | 196937 | 1.00000 | 1.027 |
| 93 Benzidine | 184 | 21.365 | 21.365 | (0.901) | 151908 | 2.00000 | 2.082 |
| 103 Pyridine | 79 | 4.290 | 4.290 | (0.484) | 72771 | 2.00000 | 2.091 |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 | (1.155) | 131250 | 1.00000 | 0.9786 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 | (1.101) | 128094 | 1.00000 | 1.025 |
| 187 Total Benzo(a)fluoranthenes | 252 | 25.483 | 25.483 | (0.976) | 353049 | 2.00000 | 2.025 |
| 99 Perylene | 252 | 26.149 | 26.149 | (1.002) | 164917 | 1.00000 | 1.010 |
| 98 Retene | 219 | 22.131 | 22.131 | (0.934) | 88185 | 1.00000 | 0.9742 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526g.d
 Lab Smp Id: ABN1.0
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

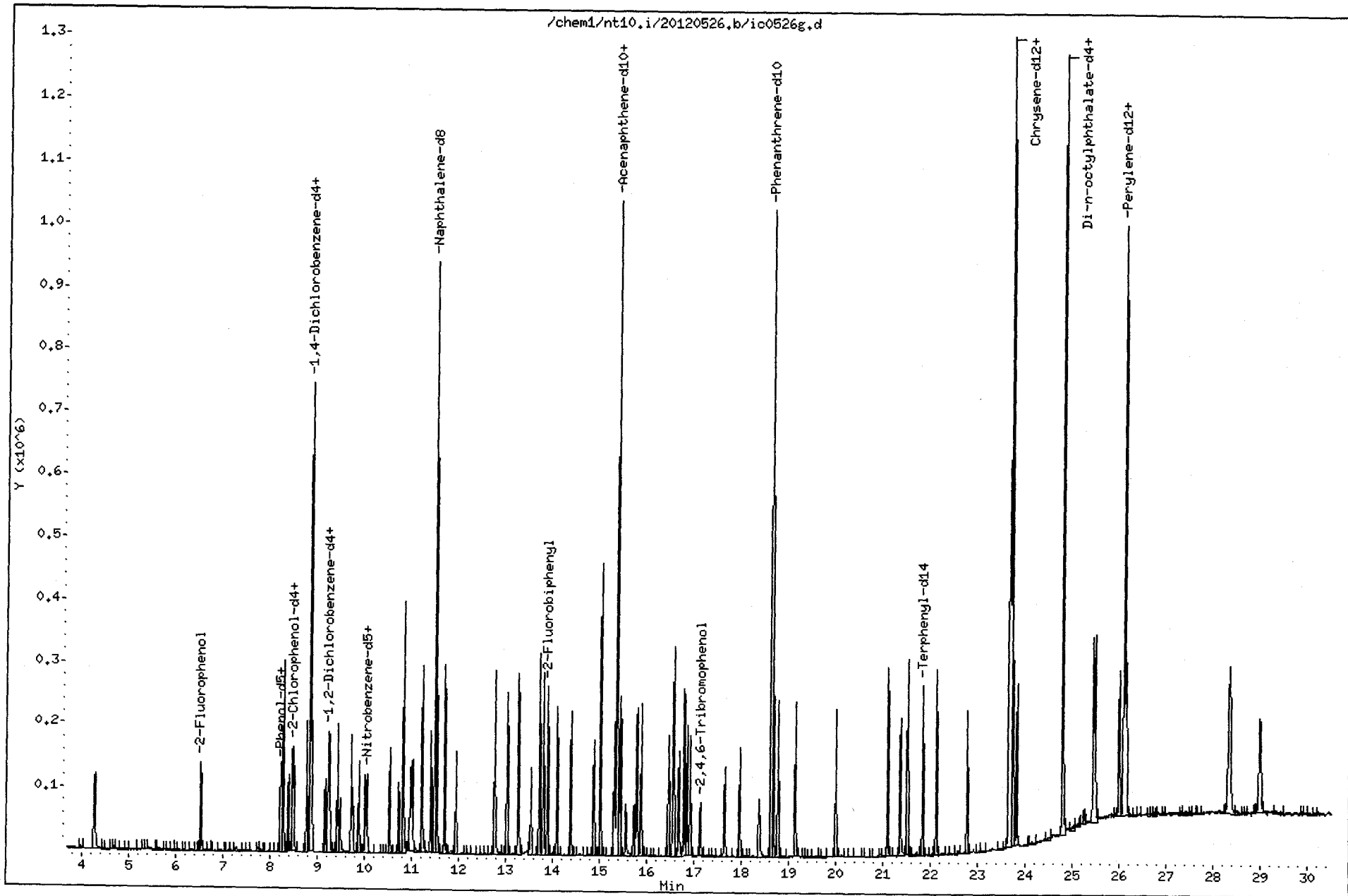
Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 193887 | 2.31 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 750391 | 2.66 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 411692 | -2.14 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 635080 | -0.61 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 638910 | -0.95 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 937949 | -7.69 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 628310 | -3.34 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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.



U552:00484

CO-ELUTION SUMMARY FOR FILE - ic0526g.d

Lab ID: ABN1.0, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Data file : /chem1/nt10.i/20120526.b/icv0526.d
 Lab Smp Id: ICV-5
 Inj Date : 26-MAY-2012 15:19
 Operator : VTS/YZ
 Smp Info : ICV-5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 11:37 yev
 Cal Date : 26-MAY-2012 14:42
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

YZ 5/30/12

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: ic0526g.d
 QC Sample: LCS

Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|------|--------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | ==== | | | | | | |
| \$ 2 Phenol-d5 | 99 | | | | | | | |
| 3 Phenol | 94 | | | | | | | |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.507 | 8.229 | (0.961) | 24638 | 0.22682 | 0.2268(R) |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.260 | 8.252 | (0.933) | 612543 | 5.29055 | 5.291 |
| 6 2-Chlorophenol | 128 | | | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | 8.399 | 8.399 | (0.948) | 440342 | 5.10797 | 5.108 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.507 | 8.507 | (0.961) | 524588 | 5.13081 | 5.131 |
| 9 1,4-Dichlorobenzene | 146 | | 8.786 | 8.786 | (0.992) | 519359 | 5.07355 | 5.074 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.855 | 8.856 | (1.000) | 249364 | 4.00000 | |
| 12 1,2-Dichlorobenzene | 146 | | 8.886 | 8.887 | (1.004) | 494897 | 4.95322 | 4.953 |
| 11 Benzyl alcohol | 108 | | | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.267 | 9.267 | (1.046) | 486192 | 4.98706 | 4.987 |
| 13 2-Methylphenol | 108 | | 9.166 | 9.166 | (1.035) | 318906 | 6.55607 | 6.556(R) |
| 17 Hexachloroethane | 117 | | 9.492 | 9.492 | (1.072) | 158721 | 5.00118 | 5.001 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.438 | 9.430 | (1.066) | 446731 | 4.89549 | 4.895 |
| 15 4-Methylphenol | 108 | | 9.888 | 9.888 | (1.117) | 199927 | 5.15030 | 5.150 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.764 | 9.756 | (1.103) | 284120 | 5.28370 | 5.284 |
| 19 Nitrobenzene | 77 | | 9.725 | 9.725 | (1.098) | 469429 | 4.93078 | 4.931 |
| 20 Isophorone | 82 | | | | | | | |
| 21 2-Nitrophenol | 139 | | 10.066 | 10.059 | (0.875) | 449174 | 5.14613 | 5.146 |
| 22 2,4-Dimethylphenol | 107 | | 10.547 | 10.540 | (0.917) | 833349 | 5.06458 | 5.065 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.733 | 10.733 | (0.933) | 296118 | 5.38022 | 5.380 |
| 24 Benzoic acid | 105 | | 10.833 | 10.833 | (0.942) | 431706 | 4.95126 | 4.951 |
| 25 2,4-Dichlorophenol | 162 | | 11.034 | 11.034 | (0.959) | 521674 | 5.32350 | 5.324 |
| * 26 1,2,4-Trichlorobenzene | 180 | | 11.057 | 10.995 | (0.961) | 487276 | 8.44945 | 8.449 |
| 27 Naphthalene-d8 | 136 | | 11.234 | 11.226 | (0.977) | 459357 | 5.47726 | 5.477 |
| | | | 11.419 | 11.411 | (0.993) | 399924 | 5.00904 | 5.009 |
| | | | 11.504 | 11.496 | (1.000) | 989810 | 4.00000 | |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | | |
|-------------------------------|-----------|------------------------|--------|---------|----------------|----------------------|------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | |
| 28 Naphthalene | 128 | 11.543 | 11.543 | (1.003) | 1452947 | 5.82271 | 5.823 | |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.017) | 715126 | 6.43253 | 6.433 | |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.944 | (1.039) | 220886 | 5.14498 | 5.145 | |
| 31 4-Chloro-3-methylphenol | 107 | 12.772 | 12.772 | (1.110) | 406012 | 5.39547 | 5.395 | |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 1037080 | 5.97841 | 5.978 | |
| 33 Hexachlorocyclopentadiene | 237 | 13.554 | 13.554 | (0.882) | 183705 | 4.67068 | 4.671 | |
| 34 2,4,6-Trichlorophenol | 196 | 13.732 | 13.724 | (0.893) | 285210 | 5.30731 | 5.307 | |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 299729 | 5.21021 | 5.210 | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.802 | 13.902 | (0.898) | 489 | 0.00259 | 0.002587 (R) | |
| 37 2-Chloronaphthalene | 162 | 14.103 | 14.104 | (0.917) | 860466 | 5.32462 | 5.325 | |
| 38 2-Nitroaniline | 65 | 14.405 | 14.398 | (0.937) | 240031 | 6.21031 | 6.210 | |
| 39 Dimethylphthalate | 163 | 14.893 | 14.885 | (0.969) | 869716 | 5.19064 | 5.191 | |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 1464431 | 5.97933 | 5.979 | |
| 41 2,6-Dinitrotoluene | 165 | 15.032 | 15.025 | (0.978) | 211930 | 5.19161 | 5.192 | |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 545323 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 15.326 | 15.319 | (0.997) | 271136 | 5.88282 | 5.883 | |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 894186 | 6.05301 | 6.053 | |
| 45 2,4-Dinitrophenol | 184 | 15.558 | 15.558 | (1.012) | 218245 | 8.18330 | 8.183 (R) | |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 1286067 | 5.94234 | 5.942 | |
| 47 4-Nitrophenol | 109 | 15.728 | 15.736 | (1.023) | 99971 | 5.63611 | 5.636 | |
| 48 2,4-Dinitrotoluene | 165 | 15.891 | 15.891 | (1.034) | 280475 | 5.32546 | 5.325 | |
| 50 Diethylphthalate | 149 | 16.470 | 16.463 | (1.071) | 847615 | 5.18905 | 5.189 | |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 996290 | 6.00793 | 6.008 | |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 420476 | 5.33996 | 5.340 | |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 246381 | 5.23174 | 5.232 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.795 | 16.795 | (0.901) | 354119 | 10.6158 | 10.62 | |
| 54 N-Nitrosodiphenylamine | 169 | 16.857 | 16.857 | (0.905) | 589653 | 5.21389 | 5.214 | |
| \$ 55 2,4,6-Tribromophenol | 330 | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | 17.658 | 17.659 | (0.948) | 236862 | 5.26296 | 5.263 | |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.976 | (0.965) | 262810 | 5.06468 | 5.065 | |
| 58 Pentachlorophenol | 266 | 18.378 | 18.386 | (0.986) | 122932 | 4.56720 | 4.567 | |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 840695 | 4.00000 | | |
| 60 Phenanthrene | 178 | 18.688 | 18.680 | (1.003) | 1321406 | 6.09554 | 6.096 | |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 1383648 | 6.10993 | 6.110 | |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 1030370 | 4.91739 | 4.917 | |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.003 | (1.074) | 1644680 | 5.57713 | 5.577 | |
| 64 Fluoranthene | 202 | 21.101 | 21.102 | (1.132) | 1505236 | 6.11547 | 6.115 | |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 1556744 | 5.86121 | 5.861 | |
| \$ 66 Terphenyl-d14 | 244 | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 642627 | 5.21589 | 5.216 | |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 1435464 | 5.84603 | 5.846 | |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.703 | (1.000) | 872921 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 418178 | 3.11038 | 3.110 (R) | |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 1272933 | 5.89305 | 5.893 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.819 | (0.961) | 941422 | 5.06177 | 5.062 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 1354341 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 1768809 | 5.36813 | 5.368 | |

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | | |
|-----------------------------------|-----------|----------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| ===== 74 Benzo(b)fluoranthene | ==== | 252 | 25.452 | 25.444 | (0.975) | 1497096 | 6.20177 | 6.202 |
| 75 Benzo(k)fluoranthene | | 252 | 25.491 | 25.483 | (0.977) | 1570470 | 5.90838 | 5.908 |
| 76 Benzo(a)pyrene | | 252 | 26.002 | 26.002 | (0.996) | 1323802 | 5.95784 | 5.958 |
| * 77 Perylene-d12 | | 264 | 26.102 | 26.103 | (1.000) | 859333 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | | 276 | 28.350 | 28.334 | (1.086) | 1603345 | 6.23819 | 6.238 |
| 79 Dibenzo(a,h)anthracene | | 278 | 28.365 | 28.357 | (1.087) | 1278734 | 6.31592 | 6.316 |
| 80 Benzo(g,h,i)perylene | | 276 | 29.002 | 28.987 | (1.111) | 1376066 | 6.24353 | 6.244 |
| 90 N-Nitrosodimethylamine | | 74 | 4.266 | 4.266 | (0.482) | 270769 | 5.22251 | 5.223 |
| 91 Aniline | | 93 | 8.291 | 8.291 | (0.936) | 665451 | 2.69811 | 2.698 (R) |
| 93 Benzidine | | 184 | 21.364 | 21.365 | (0.901) | 129616 | 1.30006 | 1.300 (R) |
| 103 Pyridine | | 79 | 4.274 | 4.290 | (0.483) | 431672 | 9.64286 | 9.643 |
| 105 1-methylnaphthalene | | 142 | 13.275 | 13.275 | (1.154) | 765476 | 4.32687 | 4.327 |
| 111 Azobenzene (1,2-DP-Hydrazine) | | 77 | 16.926 | 16.926 | (1.101) | 848874 | 5.12887 | 5.129 |
| 187 Total Benzofluoranthenes | | 252 | 25.491 | 25.483 | (0.977) | 2896118 | 12.1460 | 12.15 |
| 99 Perylene | | 252 | 26.002 | 26.149 | (0.996) | 1323802 | 5.92651 | 5.927 |
| 98 Retene | | 219 | | | | | | |

Compound Not Detected.

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: icv0526.d
 Lab Smp Id: ICV-5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59

Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 249364 | 31.58 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 989810 | 35.42 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 545323 | 29.62 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 840695 | 31.57 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 872921 | 35.32 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1354341 | 33.29 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 859333 | 32.20 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 0.00 |

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG:
 Sample Matrix: NONE Fraction: SV
 Lab Smp Id: ICV-5
 Level: Operator: VTS/YZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: ICV.spk Quant Type: ISTD
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

| SPIKE COMPOUND | AMOUNT ADDED ug/mL | AMOUNT RECOVERED ug/mL | % RECOVERED | LIMITS |
|------------------------|--------------------------|------------------------------|----------------|--------|
| 3 Phenol | 5.000 | 5.291 | 105.81 | |
| 4 Bis(2-Chloroethyl) | 5.000 | 5.108 | 102.16 | |
| 6 2-Chlorophenol | 5.000 | 5.131 | 102.62 | |
| 7 1,3-Dichlorobenzen | 5.000 | 5.074 | 101.47 | |
| 9 1,4-Dichlorobenzen | 5.000 | 4.953 | 99.06 | |
| 11 Benzyl alcohol | 5.000 | 6.556 | 131.12* | |
| 12 1,2-Dichlorobenzen | 5.000 | 4.987 | 99.74 | |
| 13 2-Methylphenol | 5.000 | 4.895 | 97.91 | |
| 14 2,2'-oxybis(1-Chlo | 5.000 | 5.001 | 100.02 | |
| 15 4-Methylphenol | 5.000 | 4.931 | 98.62 | |
| 16 N-Nitroso-di-n-pro | 5.000 | 5.284 | 105.67 | |
| 17 Hexachloroethane | 5.000 | 5.150 | 103.01 | |
| 19 Nitrobenzene | 5.000 | 5.146 | 102.92 | |
| 20 Isophorone | 5.000 | 5.065 | 101.29 | |
| 21 2-Nitrophenol | 5.000 | 5.380 | 107.60 | |
| 22 2,4-Dimethylphenol | 5.000 | 4.951 | 99.03 | |
| 23 Bis(2-Chloroethoxy | 5.000 | 5.324 | 106.47 | |
| 24 Benzoic acid | 10.00 | 8.449 | 84.49 | |
| 25 2,4-Dichlorophenol | 5.000 | 5.477 | 109.55 | |
| 26 1,2,4-Trichloroben | 5.000 | 5.009 | 100.18 | |
| 28 Naphthalene | 5.000 | 5.823 | 116.45 | |
| 29 4-Chloroaniline | 5.000 | 6.433 | 128.65 | |
| 30 Hexachlorobutadien | 5.000 | 5.145 | 102.90 | |
| 31 4-Chloro-3-methylp | 5.000 | 5.395 | 107.91 | |
| 32 2-Methylnaphthalen | 5.000 | 5.978 | 119.57 | |
| 33 Hexachlorocyclopene | 5.000 | 4.671 | 93.41 | |
| 34 2,4,6-Trichlorophe | 5.000 | 5.307 | 106.15 | |
| 35 2,4,5-Trichlorophe | 5.000 | 5.210 | 104.20 | |
| 37 2-Chloronaphthalen | 5.000 | 5.325 | 106.49 | |
| 38 2-Nitroaniline | 5.000 | 6.210 | 124.21 | |
| 39 Dimethylphthalate | 5.000 | 5.191 | 103.81 | |
| 40 Acenaphthylene | 5.000 | 5.979 | 119.59 | |
| 41 2,6-Dinitrotoluene | 5.000 | 5.192 | 103.83 | |

| SPIKE COMPOUND | AMOUNT ADDED ug/mL | AMOUNT RECOVERED ug/mL | % RECOVERED | LIMITS |
|------------------------|--------------------------|------------------------------|----------------|--------|
| 43 3-Nitroaniline | 5.000 | 5.883 | 117.66 | |
| 44 Acenaphthene | 5.000 | 6.053 | 121.06 | |
| 45 2,4-Dinitrophenol | 5.000 | 8.183 | 163.67* | |
| 46 Dibenzofuran | 5.000 | 5.942 | 118.85 | |
| 47 4-Nitrophenol | 5.000 | 5.636 | 112.72 | |
| 48 2,4-Dinitrotoluene | 5.000 | 5.325 | 106.51 | |
| 49 Fluorene | 5.000 | 6.008 | 120.16 | |
| 50 Diethylphthalate | 5.000 | 5.189 | 103.78 | |
| 51 4-Chlorophenyl-phe | 5.000 | 5.340 | 106.80 | |
| 52 4-Nitroaniline | 5.000 | 5.232 | 104.63 | |
| 53 4,6-Dinitro-2-meth | 10.00 | 10.62 | 106.16 | |
| 54 N-Nitrosodiphenyla | 5.000 | 5.214 | 104.28 | |
| 56 4-Bromophenyl-phen | 5.000 | 5.263 | 105.26 | |
| 57 Hexachlorobenzene | 5.000 | 5.065 | 101.29 | |
| 58 Pentachlorophenol | 5.000 | 4.567 | 91.34 | |
| 60 Phenanthrene | 5.000 | 6.096 | 121.91 | |
| 61 Anthracene | 5.000 | 6.110 | 122.20 | |
| 62 Carbazole | 5.000 | 4.917 | 98.35 | |
| 63 Di-n-butylphthalat | 5.000 | 5.577 | 111.54 | |
| 64 Fluoranthene | 5.000 | 6.115 | 122.31 | |
| 65 Pyrene | 5.000 | 5.861 | 117.22 | |
| 67 Butylbenzylphthala | 5.000 | 5.216 | 104.32 | |
| 68 Benzo(a)anthracene | 5.000 | 5.846 | 116.92 | |
| 70 3,3'-Dichlorobenzi | 5.000 | 3.110 | 62.21* | |
| 71 Chrysene | 5.000 | 5.893 | 117.86 | |
| 72 bis(2-Ethylhexyl)p | 5.000 | 5.062 | 101.24 | |
| 73 Di-n-octylphthalat | 5.000 | 5.368 | 107.36 | |
| 74 Benzo(b)fluorante | 5.000 | 6.202 | 124.04 | |
| 75 Benzo(k)fluorante | 5.000 | 5.908 | 118.17 | |
| 187 Total Benzofluoran | 10.00 | 12.15 | 121.46 | |
| 76 Benzo(a)pyrene | 5.000 | 5.958 | 119.16 | |
| 78 Indeno(1,2,3-cd)py | 5.000 | 6.238 | 124.76 | |
| 79 Dibenzo(a,h)anthra | 5.000 | 6.316 | 126.32 | |
| 80 Benzo(g,h,i)peryle | 5.000 | 6.244 | 124.87 | |
| 90 N-Nitrosodimethyla | 5.000 | 5.223 | 104.45 | |
| 103 Pyridine | 10.00 | 9.643 | 96.43 | |
| 91 Aniline | 5.000 | 2.698 | 53.96* | |
| 105 1-methylnaphthalen | 5.000 | 4.327 | 86.54 | |
| 93 Benzidine | 5.000 | 1.300 | 26.00* | |
| 111 Azobenzene (1,2-DP | 5.000 | 5.129 | 102.58 | |
| 143 1,4-Dioxane | 5.000 | 0.000 | * | |
| 144 alpha-Terpineol | 5.000 | 0.000 | * | |
| 177 p-Benzoquinone | 5.000 | 0.000 | * | |
| 98 Retene | 5.000 | 0.000 | * | |
| 133 Butylatedhydroxyt | 5.000 | 0.000 | * | |
| 115 Tributyl Phosphate | 5.000 | 0.000 | * | |
| 116 Dibutyl Phenyl Ph | 5.000 | 0.000 | * | |

Date : 26-MAY-2012 15:19

Client ID:

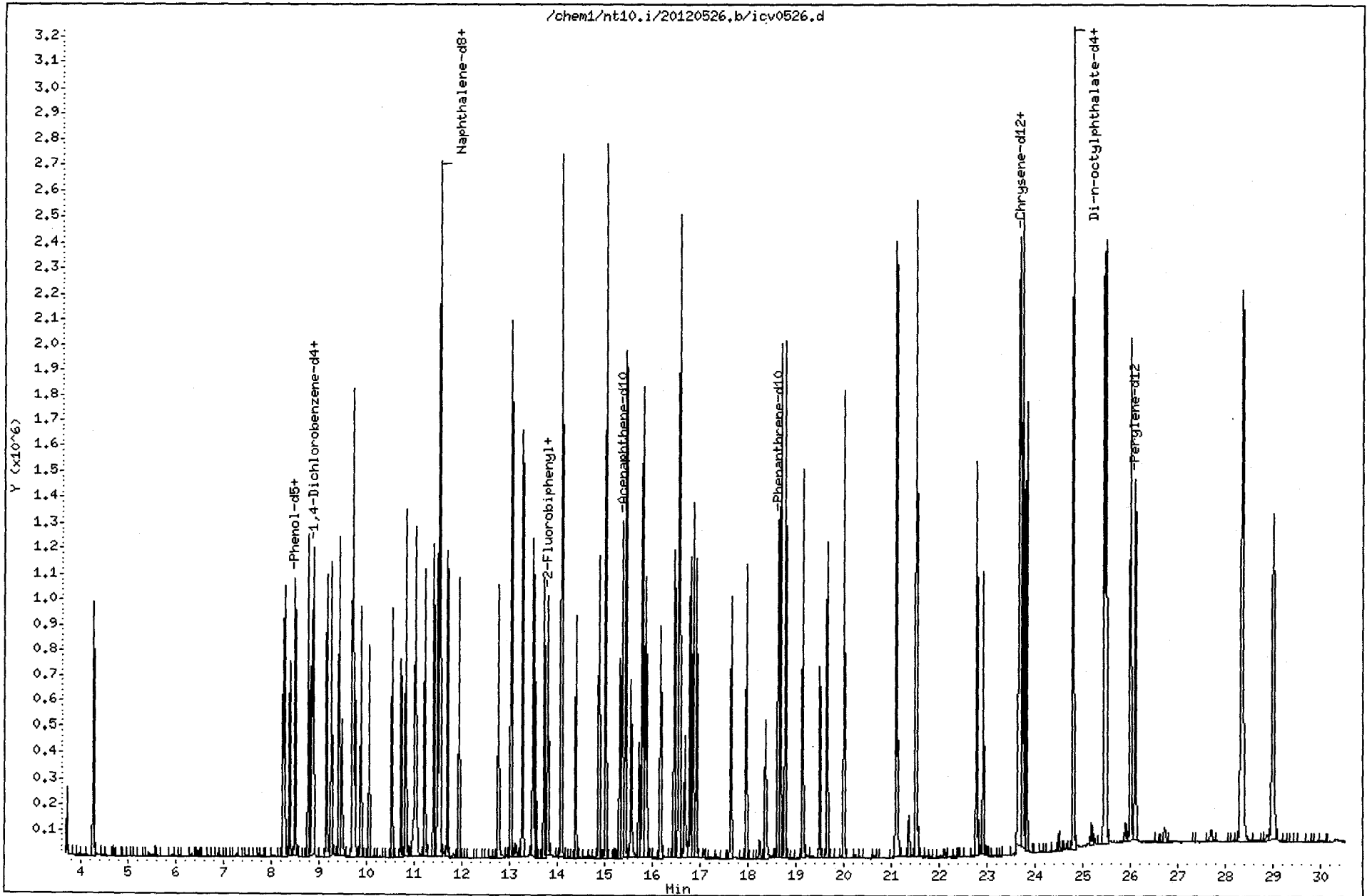
Instrument: nt10.i

Sample Info: ICV-5

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UUS2:00492

CO-ELUTION SUMMARY FOR FILE - icv0526.d

Lab ID: ICV-5, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

| RT | CO-ELUTION COMPOUNDS |
|--------|--|
| 15.032 | Acenaphthylene and 2,6-Dinitrotoluene |
| 26.002 | Perylene and Benzo(a)pyrene |

Data File: /chem1/nt10.i/20120526.b/df0526.d

Date : 26-MAY-2012 10:44

Client ID: DFTPP

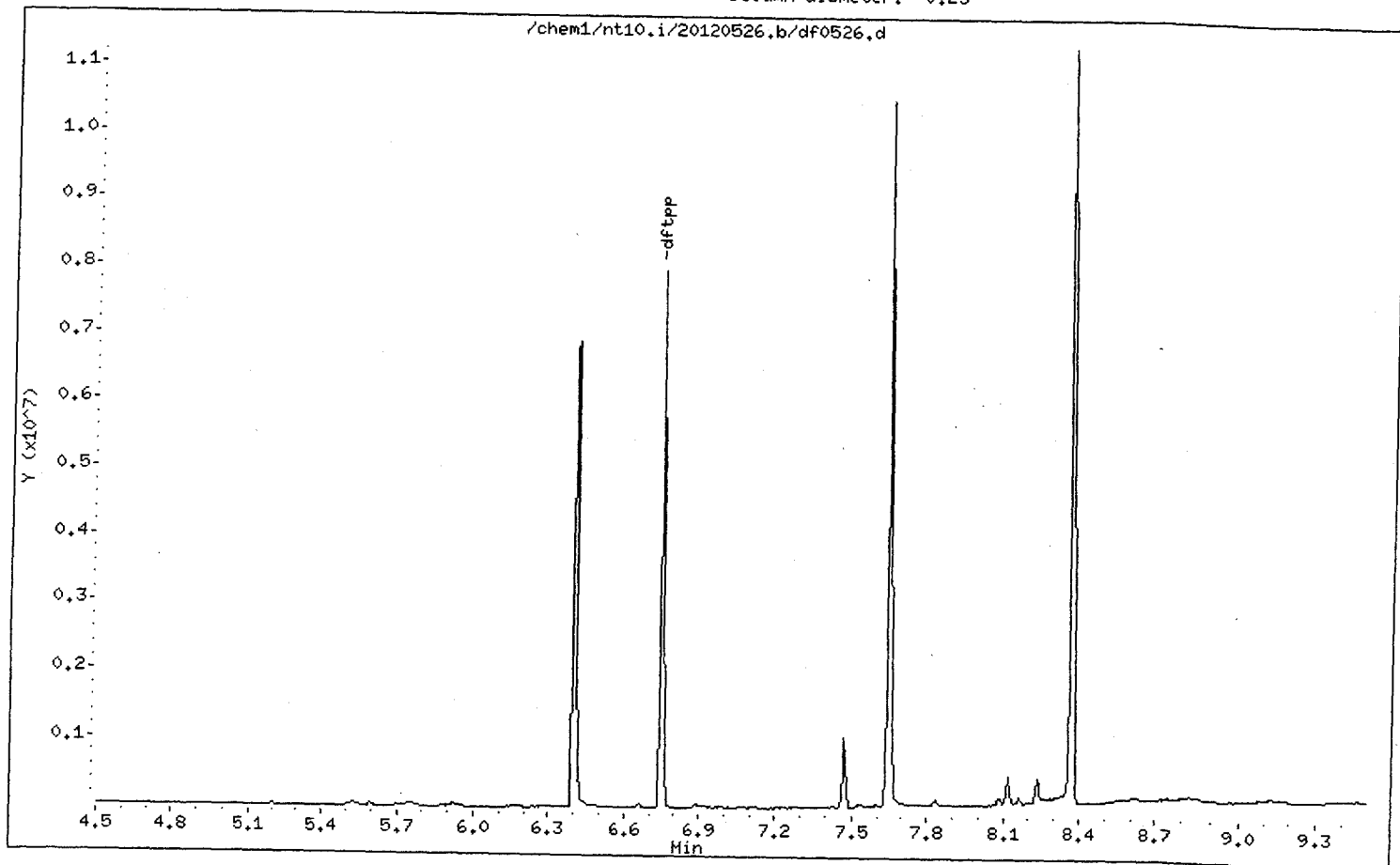
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



Date : 26-MAY-2012 10:44

Client ID: DFTPP

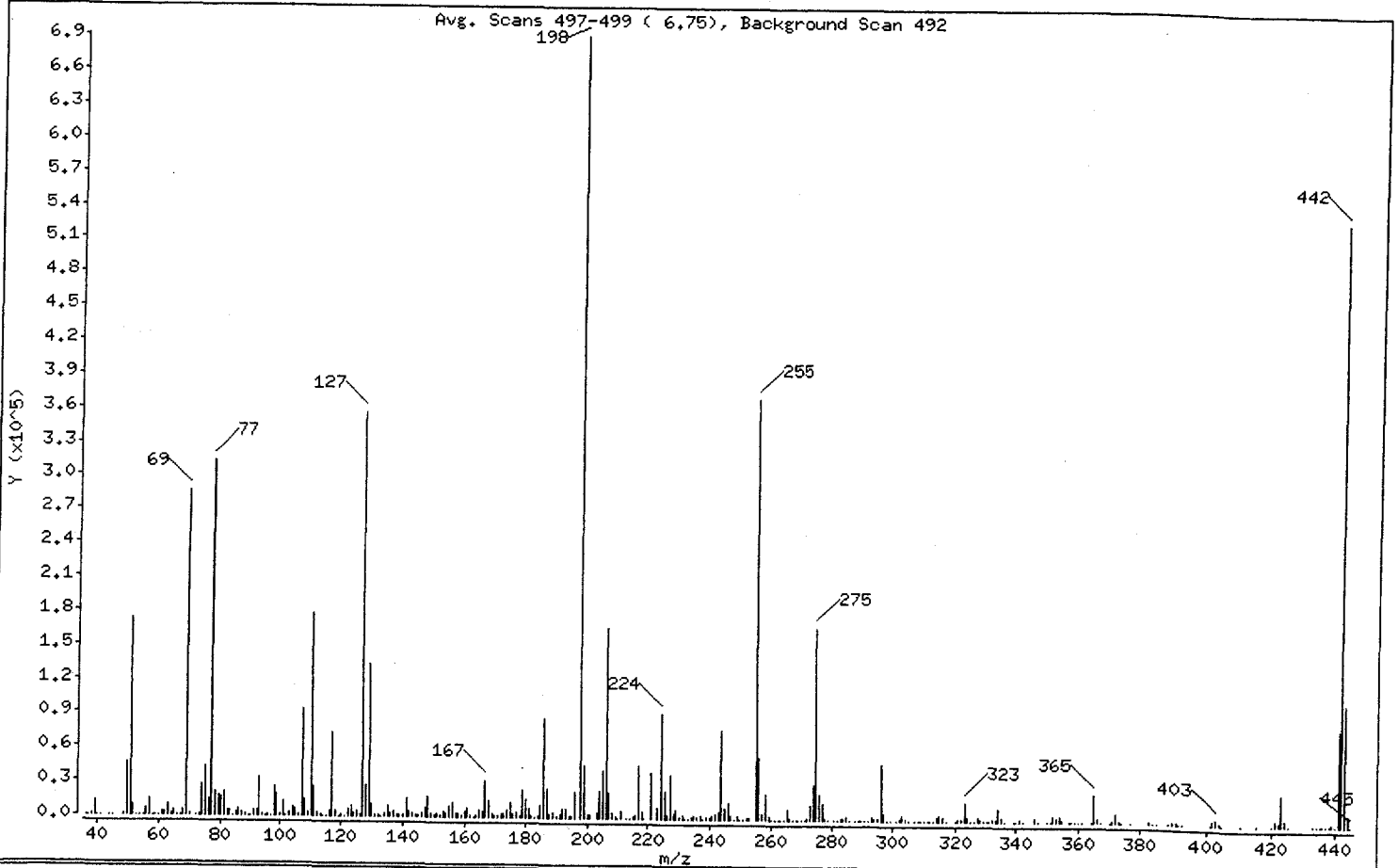
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi
1 dftpp

Column diameter: 0.25



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 25.07 |
| 68 | Less than 2.00% of mass 69 | 0.60 (1.45) |
| 69 | Mass 69 relative abundance | 41.32 |
| 70 | Less than 2.00% of mass 69 | 0.16 (0.40) |
| 127 | 10.00 - 80.00% of mass 198 | 51.51 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.70 |
| 275 | 10.00 - 60.00% of mass 198 | 24.35 |
| 365 | Greater than 1.00% of mass 198 | 3.46 |
| 441 | 0.01 - 24.00% of mass 442 | 12.16 (15.78) |
| 442 | 50.00 - 200.00% of mass 198 | 77.09 |
| 443 | 15.00 - 24.00% of mass 442 | 15.36 (19.93) |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0,25

Data File: df0526.d

Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492

Location of Maximum: 198,00

Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 26 | 129.00 | 133888 | 219.00 | 609 | 313.00 | 521 |
| 37.00 | 738 | 130.00 | 10870 | 221.00 | 40088 | 314.00 | 2625 |
| 38.00 | 2259 | 131.00 | 2053 | 223.00 | 10237 | 315.00 | 5121 |
| 39.00 | 13341 | 132.00 | 1262 | 224.00 | 92880 | 316.00 | 2893 |
| 40.00 | 569 | 133.00 | 466 | 225.00 | 23296 | 317.00 | 637 |
| 41.00 | 216 | 134.00 | 3414 | 226.00 | 2573 | 320.00 | 235 |
| 44.00 | 149 | 135.00 | 9909 | 227.00 | 38288 | 321.00 | 1663 |
| 45.00 | 367 | 136.00 | 3935 | 228.00 | 5304 | 322.00 | 1109 |
| 49.00 | 1189 | 137.00 | 4873 | 229.00 | 7998 | 323.00 | 15465 |
| 50.00 | 46176 | 138.00 | 1128 | 230.00 | 1358 | 324.00 | 2751 |
| 51.00 | 173504 | 139.00 | 805 | 231.00 | 3474 | 325.00 | 323 |
| 52.00 | 9398 | 140.00 | 1603 | 232.00 | 716 | 326.00 | 455 |
| 53.00 | 300 | 141.00 | 15489 | 233.00 | 661 | 327.00 | 3101 |
| 54.00 | 229 | 142.00 | 5414 | 234.00 | 2342 | 328.00 | 1494 |
| 55.00 | 448 | 143.00 | 3720 | 235.00 | 2777 | 329.00 | 370 |
| 56.00 | 6014 | 144.00 | 1136 | 236.00 | 2141 | 330.00 | 56 |
| 57.00 | 13761 | 145.00 | 942 | 237.00 | 3010 | 331.00 | 197 |
| 58.00 | 408 | 146.00 | 2786 | 238.00 | 564 | 332.00 | 1250 |
| 59.00 | 179 | 147.00 | 8163 | 239.00 | 1494 | 333.00 | 1705 |
| 60.00 | 272 | 148.00 | 18016 | 240.00 | 1176 | 334.00 | 10488 |
| 61.00 | 2630 | 149.00 | 3469 | 241.00 | 2531 | 335.00 | 2517 |
| 62.00 | 3433 | 150.00 | 842 | 242.00 | 5295 | 336.00 | 303 |
| 63.00 | 9251 | 151.00 | 2529 | 243.00 | 6077 | 339.00 | 186 |
| 64.00 | 1297 | 152.00 | 1040 | 244.00 | 78016 | 340.00 | 284 |
| 65.00 | 4742 | 153.00 | 4885 | 245.00 | 9692 | 341.00 | 2021 |
| 66.00 | 167 | 154.00 | 3744 | 246.00 | 14024 | 342.00 | 519 |
| 67.00 | 487 | 155.00 | 9049 | 247.00 | 2921 | 346.00 | 3558 |
| 68.00 | 4159 | 156.00 | 13247 | 248.00 | 765 | 347.00 | 600 |
| 69.00 | 285952 | 157.00 | 2827 | 249.00 | 2660 | 350.00 | 271 |
| 70.00 | 1139 | 158.00 | 2845 | 250.00 | 607 | 351.00 | 343 |
| 72.00 | 190 | 159.00 | 2353 | 251.00 | 678 | 352.00 | 4486 |
| 73.00 | 1995 | 160.00 | 5145 | 252.00 | 867 | 353.00 | 3227 |
| 74.00 | 27632 | 161.00 | 7274 | 253.00 | 1909 | 354.00 | 4155 |
| 75.00 | 43448 | 162.00 | 2140 | 255.00 | 370304 | 355.00 | 808 |
| 76.00 | 14823 | 163.00 | 679 | 256.00 | 54880 | 357.00 | 121 |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0526.d

Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492

Location of Maximum: 198.00

Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 77.00 | 313792 | 164.00 | 1059 | 257.00 | 4329 | 358.00 | 52 |
| 78.00 | 20888 | 165.00 | 5892 | 258.00 | 21480 | 359.00 | 426 |
| 79.00 | 18144 | 166.00 | 5005 | 259.00 | 3568 | 360.00 | 59 |
| 80.00 | 15251 | 167.00 | 32544 | 260.00 | 602 | 361.00 | 119 |
| 81.00 | 20912 | 168.00 | 13737 | 261.00 | 620 | 364.00 | 104 |
| 82.00 | 5239 | 169.00 | 2539 | 262.00 | 127 | 365.00 | 23944 |
| 83.00 | 4808 | 170.00 | 1075 | 263.00 | 188 | 366.00 | 3294 |
| 84.00 | 129 | 171.00 | 1308 | 264.00 | 584 | 367.00 | 152 |
| 85.00 | 3163 | 172.00 | 2874 | 265.00 | 8905 | 370.00 | 494 |
| 86.00 | 5793 | 173.00 | 3665 | 266.00 | 1076 | 371.00 | 1374 |
| 87.00 | 2776 | 174.00 | 6643 | 267.00 | 74 | 372.00 | 7891 |
| 88.00 | 1151 | 175.00 | 12622 | 268.00 | 51 | 373.00 | 1946 |
| 89.00 | 520 | 176.00 | 3756 | 269.00 | 229 | 374.00 | 236 |
| 90.00 | 65 | 177.00 | 5429 | 270.00 | 372 | 377.00 | 229 |
| 91.00 | 4623 | 178.00 | 1805 | 271.00 | 793 | 383.00 | 2132 |
| 92.00 | 5132 | 179.00 | 23488 | 272.00 | 1269 | 384.00 | 670 |
| 93.00 | 33360 | 180.00 | 15572 | 273.00 | 12611 | 385.00 | 117 |
| 94.00 | 2216 | 181.00 | 7701 | 274.00 | 29880 | 389.00 | 52 |
| 95.00 | 380 | 182.00 | 1110 | 275.00 | 168512 | 390.00 | 1125 |
| 96.00 | 1107 | 183.00 | 491 | 276.00 | 22000 | 391.00 | 839 |
| 97.00 | 21 | 184.00 | 1883 | 277.00 | 13717 | 392.00 | 587 |
| 98.00 | 25000 | 185.00 | 11629 | 278.00 | 2058 | 393.00 | 55 |
| 99.00 | 19064 | 186.00 | 88272 | 279.00 | 511 | 401.00 | 443 |
| 100.00 | 1716 | 187.00 | 24768 | 281.00 | 116 | 402.00 | 2867 |
| 101.00 | 12840 | 188.00 | 2490 | 282.00 | 481 | 403.00 | 4359 |
| 102.00 | 537 | 189.00 | 5139 | 283.00 | 1659 | 404.00 | 1567 |
| 103.00 | 3931 | 190.00 | 951 | 284.00 | 1165 | 405.00 | 170 |
| 104.00 | 7795 | 191.00 | 2619 | 285.00 | 2561 | 410.00 | 58 |
| 105.00 | 6943 | 192.00 | 7480 | 286.00 | 616 | 415.00 | 299 |
| 106.00 | 2109 | 193.00 | 8529 | 288.00 | 167 | 420.00 | 73 |
| 107.00 | 94312 | 194.00 | 1572 | 289.00 | 565 | 421.00 | 4081 |
| 108.00 | 14776 | 195.00 | 1022 | 290.00 | 563 | 422.00 | 3772 |
| 109.00 | 2699 | 196.00 | 22624 | 291.00 | 337 | 423.00 | 27824 |
| 110.00 | 178432 | 198.00 | 692096 | 292.00 | 692 | 424.00 | 5405 |
| 111.00 | 26104 | 199.00 | 46376 | 293.00 | 3255 | 425.00 | 517 |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0526.d

Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492

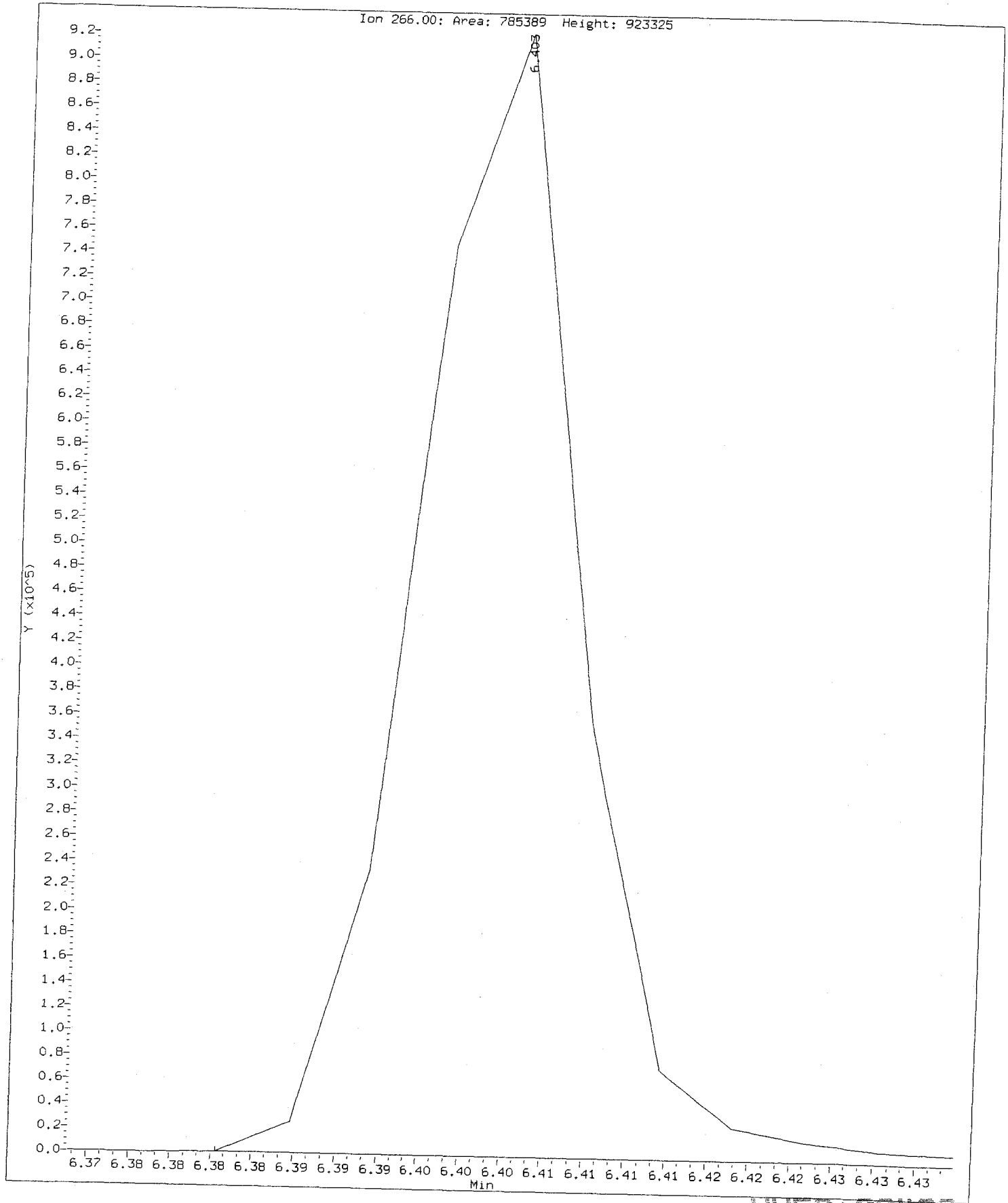
Location of Maximum: 198.00

Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|-------|--------|--------|
| 112.00 | 2941 | 200.00 | 3155 | 294.00 | 851 | 433.00 | 182 |
| 113.00 | 925 | 201.00 | 3528 | 295.00 | 1364 | 434.00 | 330 |
| 114.00 | 293 | 203.00 | 4862 | 296.00 | 49064 | 435.00 | 384 |
| 115.00 | 582 | 204.00 | 24424 | 297.00 | 6873 | 436.00 | 524 |
| 116.00 | 4751 | 205.00 | 40776 | 298.00 | 480 | 437.00 | 742 |
| 117.00 | 73120 | 206.00 | 166848 | 299.00 | 121 | 438.00 | 378 |
| 118.00 | 5224 | 207.00 | 21712 | 301.00 | 760 | 439.00 | 1052 |
| 119.00 | 711 | 208.00 | 5262 | 302.00 | 851 | 440.00 | 757 |
| 120.00 | 1191 | 209.00 | 1631 | 303.00 | 5451 | 441.00 | 84168 |
| 121.00 | 537 | 210.00 | 634 | 304.00 | 1399 | 442.00 | 533504 |
| 122.00 | 5952 | 211.00 | 6697 | 305.00 | 61 | 443.00 | 106320 |
| 123.00 | 9239 | 213.00 | 451 | 307.00 | 73 | 444.00 | 9542 |
| 124.00 | 3620 | 214.00 | 166 | 308.00 | 672 | 445.00 | 638 |
| 125.00 | 4068 | 215.00 | 1855 | 309.00 | 579 | | |
| 126.00 | 1464 | 216.00 | 3870 | 310.00 | 726 | | |
| 127.00 | 356480 | 217.00 | 45744 | 311.00 | 93 | | |
| 128.00 | 26776 | 218.00 | 5952 | 312.00 | 210 | | |

Data File: /chem1/nt10.i/20120526.b/ddt.b/df0526.d
Injection Date: 26-MAY-2012 10:44
Instrument: nt10.i
Client Sample ID: DF1PP

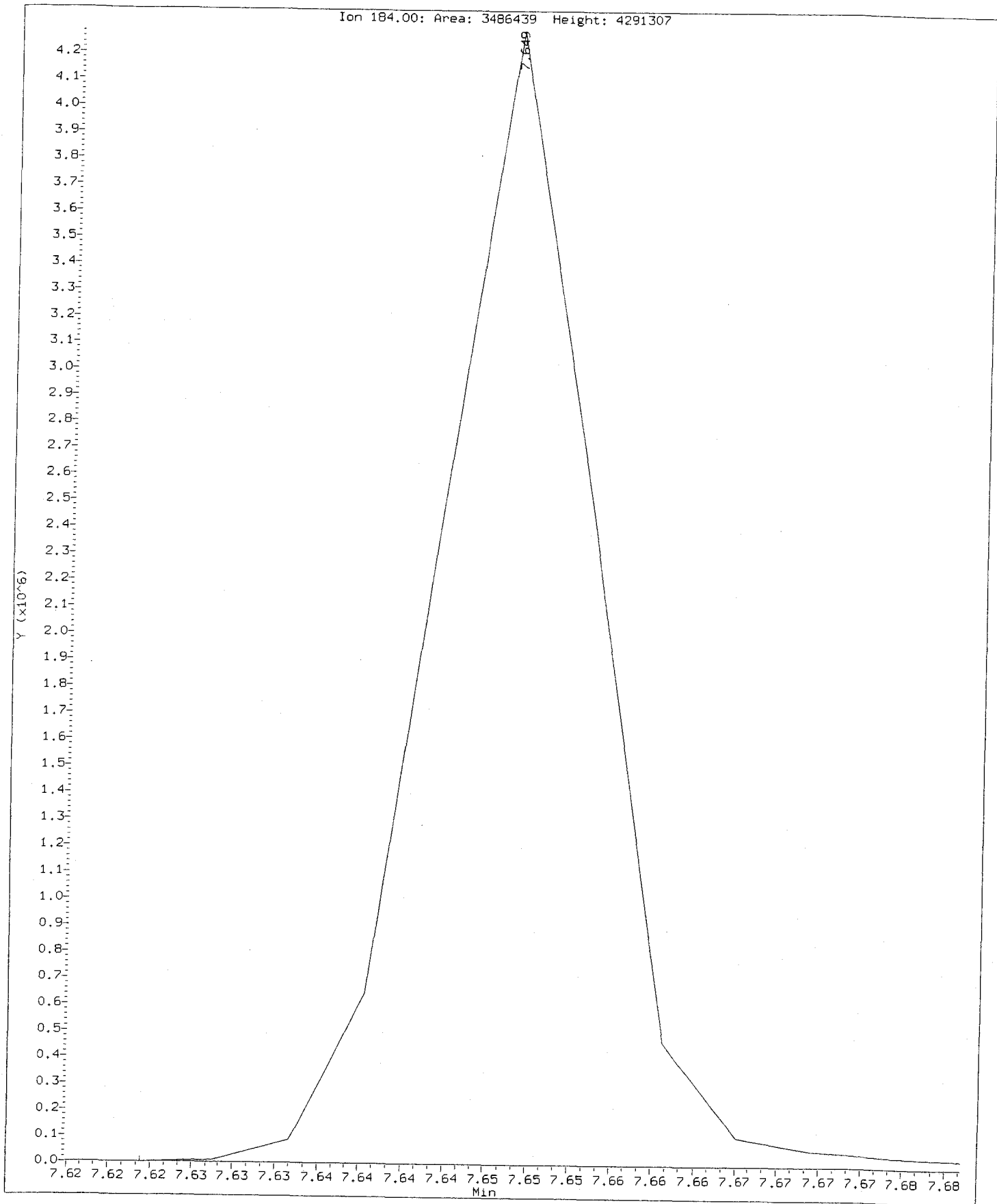
Compound: Pentachlorophenol
CAS Number: 87-86-5



0052:00495

Data File: /chem1/nt10.i/20120526.b/ddt.b/df0526.d
Injection Date: 26-MAY-2012 10:44
Instrument: nt10.i
Client Sample ID: DFTFP

Compound: Benzidine
CAS Number:



UU52:00500

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20120526.b/ddt.b/df0526.d ARI ID: DFTPP
Method: /chem1/nt10.i/20120526.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 26-MAY-2012 10:44 Instrument: nt10.i

| COMPOUND | RT | AREA |
|-------------------|-------|---------|
| Pentachlorophenol | 6.403 | 785389 |
| Benzidine | 7.649 | 3486439 |
| 4,4'-DDE | 7.831 | 8080 |
| 4,4'-DDD | 8.120 | 77952 |
| 4,4'-DDT | 8.371 | 1823281 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(8080 + 77952) * 100}{(8080 + 77952 + 1823281)}$$

DDT Percent Breakdown = 4.5 %



GC/MS, SVOA Initial Calibration Notes

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Instrument: NT-4 NT-6 NT-8 NT-10 NT11 NT12

Curve Date(s): 5/23/12 Internal Standard ID 1875-1 Expiration 7/16/12

| | | | |
|--|--|-------------------------------|--|
| DFTPP Tune Meets Criteria? | <input checked="" type="checkbox"/> YES / NO | Minimum Response Factors Met/ | <input checked="" type="checkbox"/> YES / NO |
| DDT Breakdown <20%? | <input checked="" type="checkbox"/> YES / NO | ICV Exceeding ±20%? | <input checked="" type="checkbox"/> YES / NO |
| Peak Tailing Factor ≤2? | <input checked="" type="checkbox"/> YES / NO | ICV Exceeding ±30%? | <input checked="" type="checkbox"/> YES / NO |
| ICal Meets %RSD & r ² Criteria? | <input checked="" type="checkbox"/> YES / NO | Linear Fits Used? | <input checked="" type="checkbox"/> YES / NO |
| Q flag applied? | YES / NO <u>(NA)</u> | Quadratic Fits Used? | <input checked="" type="checkbox"/> YES / NO |
| Manual Integrations for ICal? | <input checked="" type="checkbox"/> YES / NO | Calibration Points Dropped? | <input checked="" type="checkbox"/> YES / NO |
| Spectral Library Updated? | <input checked="" type="checkbox"/> YES / NO | | |

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|-----------------------|---------------|-----------------|-----------------------|---------------|-----------------|
| <u>Ultra</u> | <u>1932-2</u> | <u>7/16/12</u> | <u>Reske</u> | <u>1972-2</u> | <u>11/1/12</u> |
| <u>↓</u> | <u>1940-1</u> | <u>7/27/12</u> | <u>↓</u> | <u>1973-2</u> | <u>↓</u> |
| <u>↓</u> | <u>1941-1</u> | <u>7/27/12</u> | <u>↓</u> | <u>1974-1</u> | <u>↓</u> |
| <u>in house stock</u> | <u>1942-1</u> | <u>7/27/12</u> | <u>in house stock</u> | <u>1947-1</u> | <u>7/27/12</u> |
| <u>Cambridge</u> | <u>1645</u> | <u>12/17/12</u> | <u>Cambridge</u> | <u>1645</u> | <u>12/17/12</u> |
| <u>in house stock</u> | <u>1934-1</u> | <u>7/15/12</u> | <u>in house stock</u> | <u>1934-1</u> | <u>7/15/12</u> |
| <u>in house stock</u> | <u>1939-3</u> | <u>7/15/12</u> | <u>in house stock</u> | <u>1939-3</u> | <u>7/15/12</u> |

Detail problems, corrective actions and/or other pertinent information below:

- 1) First point dropped: P-Benzquinone, Benzoic Acid, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Benzidine.
- 2) highest point dropped: Acenaphthene
- 3) Linear fit used: Benzoic Acid, 4-nitrophenol.
- 4) Quadratic fit used: 2,4-Dinitrophenol, Pentachlorophenol
- 5) out of spec: Benzidine ICV: pentachlorophenol recovery @ 65.4%

Analyst: [Signature] Date: 05/26/12
 Reviewer: [Signature] Date: 5/24/12

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/nt6.i/20120523.b/05231208.D
 Level 2: /chem2/nt6.i/20120523.b/05231203.D
 Level 3: /chem2/nt6.i/20120523.b/05231204.D
 Level 4: /chem2/nt6.i/20120523.b/05231201.D
 Level 5: /chem2/nt6.i/20120523.b/05231205.D
 Level 6: /chem2/nt6.i/20120523.b/05231206.D
 Level 7: /chem2/nt6.i/20120523.b/05231207.D

25/24/12

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 186 Carbaryl | 0.46950 0.47576 | 0.42243 | 0.46109 | 0.49745 | 0.53299 | 0.53003 | 0.48418 | 8.128 |
| 179 n-Decane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 180 n-Octadecane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 169 4-tert-Butylphenol | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 170 N,N-Dimethylaniline | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 171 2,3-Dimethylaniline | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.

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 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 Level 1 | 5.000 Level 2 | 10.000 Level 3 | 25.000 Level 4 | 40.000 Level 5 | 60.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|-------------------------|--------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|--------|
| 172 2,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 173 2,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 174 2,6-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 175 3,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 176 3,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 177 p-Benzoquinone | +++++ 0.05395 | 0.04373 | 0.05055 | 0.05531 | 0.06435 | 0.06137 | | 0.05488 | 13.536 |
| 168 Pentachlorobenzene | 0.52732 0.48440 | 0.54115 | 0.53345 | 0.47304 | 0.54899 | 0.52254 | | 0.51870 | 5.560 |
| 145 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 146 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 135 2,3,5,6-Tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 136 2,3,4,5-tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 133 Butylatedhydroxytoluene | 0.86563 0.69753 | 0.81023 | 0.78080 | 0.73108 | 0.79563 | 0.78377 | 0.78067 | 6.957 |
| 132 3,6-Dimethylphenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 131 1-Methylphenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 130 Dibenzothiophene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 129 1-Methylfluorene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 128 N-Hexadecane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 127 2-Isopropyl-naphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 144 alpha-Terpineol | 0.19827 0.17712 | 0.20423 | 0.19388 | 0.17728 | 0.20427 | 0.18970 | 0.19211 | 5.959 |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 123 Acetophenone | 1.54576 1.46424 | 1.59930 | 1.59162 | 1.48273 | 1.69950 | 1.57969 | 1.56612 | 5.046 |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 143 1,4-Dioxane | 0.40017 0.40323 | 0.43500 | 0.42326 | 0.39836 | 0.43319 | 0.44257 | 0.41940 | 4.418 |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 120 2,3,4,6-Tetrachlorophenol | 0.22434 0.30877 | 0.24497 | 0.27459 | 0.28797 | 0.31371 | 0.32787 | 0.28317 | 13.373 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-----------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 178 2-Benzyl-4-Chlorophenol | 0.16663 0.22648 | 0.20991 | 0.21213 | 0.20331 | 0.23946 | 0.24309 | 0.21443 | 12.082 |
| 119 7,12-Dimethylbenz(a)anthracen | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 118 Triphenyl Phosphate | 0.22170 0.22320 | 0.23708 | 0.22956 | 0.21333 | 0.25414 | 0.24165 | 0.23152 | 5.968 |
| 117 Butyl Diphenyl Phosphate | 0.10893 0.11660 | 0.12584 | 0.12096 | 0.11110 | 0.13284 | 0.12550 | 0.12025 | 7.145 |
| 116 Dibutyl Phenyl Phosphate | 0.45619 0.46004 | 0.49578 | 0.48610 | 0.44083 | 0.51396 | 0.50070 | 0.47909 | 5.628 |
| 115 Tributyl Phosphate | 0.59163 0.51320 | 0.65651 | 0.62577 | 0.55218 | 0.62792 | 0.58310 | 0.59290 | 8.280 |
| 114 Beta-Pinene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 113 Diphenyl Oxide | 0.74844 0.68305 | 0.80615 | 0.73863 | 0.65689 | 0.76636 | 0.72227 | 0.73168 | 6.862 |
| 112 Biphenyl | 1.21605 0.94279 | 1.28175 | 1.19808 | 1.02414 | 1.13029 | 1.02190 | 1.11643 | 11.074 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-----------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 0.94504 0.83714 | 0.99949 | 0.98658 | 0.88434 | 0.96467 | 0.93596 | 0.93617 | 6.157 |
| 110 Tetrachloroguaiacol | 0.09149 0.14001 | 0.13114 | 0.13285 | 0.12932 | 0.15348 | 0.14814 | 0.13235 | 15.222 |
| 109 3,4,5-Trichloroguaiacol | 0.11113 0.13010 | 0.14446 | 0.13562 | 0.12207 | 0.14057 | 0.13717 | 0.13159 | 8.803 |
| 181 3,4,6-Trichloroguaiacol | 0.48187 0.59579 | 0.60208 | 0.57213 | 0.53194 | 0.64447 | 0.58383 | 0.57316 | 9.172 |
| 108 4,5,6-Trichloroguaiacol | 0.19402 0.22476 | 0.23701 | 0.22039 | 0.19065 | 0.22179 | 0.23854 | 0.21817 | 8.720 |
| 184 3,4-Dichloroguaiacol | 0.43499 0.50225 | 0.54329 | 0.51665 | 0.49002 | 0.56601 | 0.51020 | 0.50906 | 8.166 |
| 107 4,5-Dichloroguaiacol | 0.25984 0.26791 | 0.31329 | 0.29351 | 0.25553 | 0.28797 | 0.28676 | 0.28069 | 7.341 |
| 182 4,6-Dichloroguaiacol | 0.59178 0.59733 | 0.69377 | 0.65539 | 0.59720 | 0.70601 | 0.61673 | 0.63689 | 7.567 |
| 185 4-Chloroguaiacol | 0.43952 0.49993 | 0.51354 | 0.49135 | 0.46976 | 0.55788 | 0.48049 | 0.49321 | 7.513 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|--------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 106 Guaiacol | 0.98433 0.97686 | 1.03539 | 0.99268 | 0.94677 | 1.09868 | 1.04134 | 1.01087 | 5.035 |
| 105 1-methylnaphthalene | 0.53141 0.42367 | 0.53308 | 0.49711 | 0.44508 | 0.50623 | 0.46253 | 0.48559 | 8.786 |
| 151 1,2,4,5-Tetrachlorobenzene | 0.55383 0.51039 | 0.56438 | 0.55319 | 0.49278 | 0.55838 | 0.56850 | 0.54306 | 5.395 |
| 152 Benzo(e)pyrene | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 153 Chlorpyrifos | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 154 Diazinon | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 155 Kelthane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 156 Methyl Parathion | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 157 Ethyl Parathion | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|------------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 167 2,2',4,4',5-Pentabromobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 3 Phenol | 1.92993 1.46984 | 1.62487 | 1.58215 | 1.65615 | 1.72984 | 1.59809 | 1.65584 | 8.714 |
| 4 Bis(2-Chloroethyl)ether | 1.13762 1.08900 | 1.12021 | 1.16884 | 1.10675 | 1.25030 | 1.17611 | 1.14983 | 4.727 |
| 6 2-Chlorophenol | 1.79852 1.34280 | 1.49416 | 1.43286 | 1.49085 | 1.55701 | 1.46464 | 1.51155 | 9.434 |
| 7 1,3-Dichlorobenzene | 1.59595 1.41736 | 1.58123 | 1.58596 | 1.46286 | 1.64635 | 1.55763 | 1.54962 | 5.197 |
| 9 1,4-Dichlorobenzene | 1.59602 1.40058 | 1.62198 | 1.57342 | 1.47047 | 1.63146 | 1.54728 | 1.54874 | 5.474 |
| 11 Benzyl alcohol | 0.59418 0.90161 | 0.88976 | 0.87732 | 0.83934 | 1.00640 | 0.94399 | 0.86466 | 15.104 |
| 12 1,2-Dichlorobenzene | 1.51205 1.35855 | 1.51784 | 1.50187 | 1.41416 | 1.58130 | 1.49221 | 1.48257 | 4.956 |
| 13 2-Methylphenol | 1.45829 1.15706 | 1.21832 | 1.19364 | 1.24491 | 1.33301 | 1.23914 | 1.26348 | 8.043 |

Analytical Resources, Inc.

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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 1.33225 | 1.34383 | 1.30332 | 1.21652 | 1.37390 | 1.27718 | | |
| | 1.18052 | | | | | | 1.28965 | 5.432 |
| 15 4-Methylphenol | 1.39090 | 1.27057 | 1.25476 | 1.31867 | 1.40141 | 1.29508 | | |
| | 1.20142 | | | | | | 1.30469 | 5.544 |
| 16 N-Nitroso-di-n-propylamine | 0.76694 | 0.78778 | 0.77892 | 0.72821 | 0.85350 | 0.78416 | | |
| | 0.73578 | | | | | | 0.77647 | 5.311 |
| 17 Hexachloroethane | 0.53543 | 0.54778 | 0.54927 | 0.52465 | 0.59688 | 0.58356 | | |
| | 0.54507 | | | | | | 0.55466 | 4.688 |
| 19 Nitrobenzene | 0.32645 | 0.34107 | 0.33464 | 0.31609 | 0.35100 | 0.33242 | | |
| | 0.30517 | | | | | | 0.32955 | 4.655 |
| 20 Isophorone | 0.48783 | 0.50562 | 0.49353 | 0.45825 | 0.51596 | 0.48331 | | |
| | 0.44881 | | | | | | 0.48476 | 4.977 |
| 21 2-Nitrophenol | 0.25611 | 0.22424 | 0.21701 | 0.23307 | 0.24206 | 0.23259 | | |
| | 0.21855 | | | | | | 0.23195 | 5.968 |
| 22 2,4-Dimethylphenol | 0.38221 | 0.34106 | 0.33424 | 0.35265 | 0.36378 | 0.34161 | | |
| | 0.31403 | | | | | | 0.34708 | 6.298 |
| 23 Bis(2-Chloroethoxy)methane | 0.36192 | 0.37782 | 0.37158 | 0.34727 | 0.38734 | 0.36293 | | |
| | 0.33583 | | | | | | 0.36353 | 4.857 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 24 Benzoic acid | +++++ | 0.12242 | 0.14609 | 0.19379 | 0.22838 | 0.21826 | | |
| | 0.21184 | | | | | | 0.18679 | 22.959 |
| 25 2,4-Dichlorophenol | 0.34552 | 0.33495 | 0.33539 | 0.35612 | 0.36847 | 0.34630 | | |
| | 0.31905 | | | | | | 0.34369 | 4.648 |
| 26 1,2,4-Trichlorobenzene | 0.37969 | 0.37905 | 0.37271 | 0.34903 | 0.39234 | 0.37083 | | |
| | 0.34005 | | | | | | 0.36910 | 4.964 |
| 28 Naphthalene | 1.16662 | 1.18044 | 1.13660 | 0.98989 | 1.00922 | 0.88046 | | |
| | 0.75453 | | | | | | 1.01682 | 15.639 |
| 29 4-Chloroaniline | 0.47200 | 0.51712 | 0.49305 | 0.46256 | 0.49132 | 0.44412 | | |
| | 0.40674 | | | | | | 0.46956 | 7.745 |
| 30 Hexachlorobutadiene | 0.23182 | 0.22869 | 0.22528 | 0.21331 | 0.23839 | 0.22744 | | |
| | 0.21270 | | | | | | 0.22538 | 4.181 |
| 31 4-Chloro-3-methylphenol | 0.27431 | 0.25607 | 0.27013 | 0.29350 | 0.30742 | 0.26749 | | |
| | 0.25492 | | | | | | 0.27483 | 7.023 |
| 32 2-Methylnaphthalene | 0.68207 | 0.70914 | 0.66671 | 0.59638 | 0.65732 | 0.58857 | | |
| | 0.52444 | | | | | | 0.63209 | 10.218 |
| 33 Hexachlorocyclopentadiene | +++++ | 0.21941 | 0.28311 | 0.30684 | 0.37121 | 0.37521 | | |
| | 0.33512 | | | | | | 0.31515 | 18.724 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

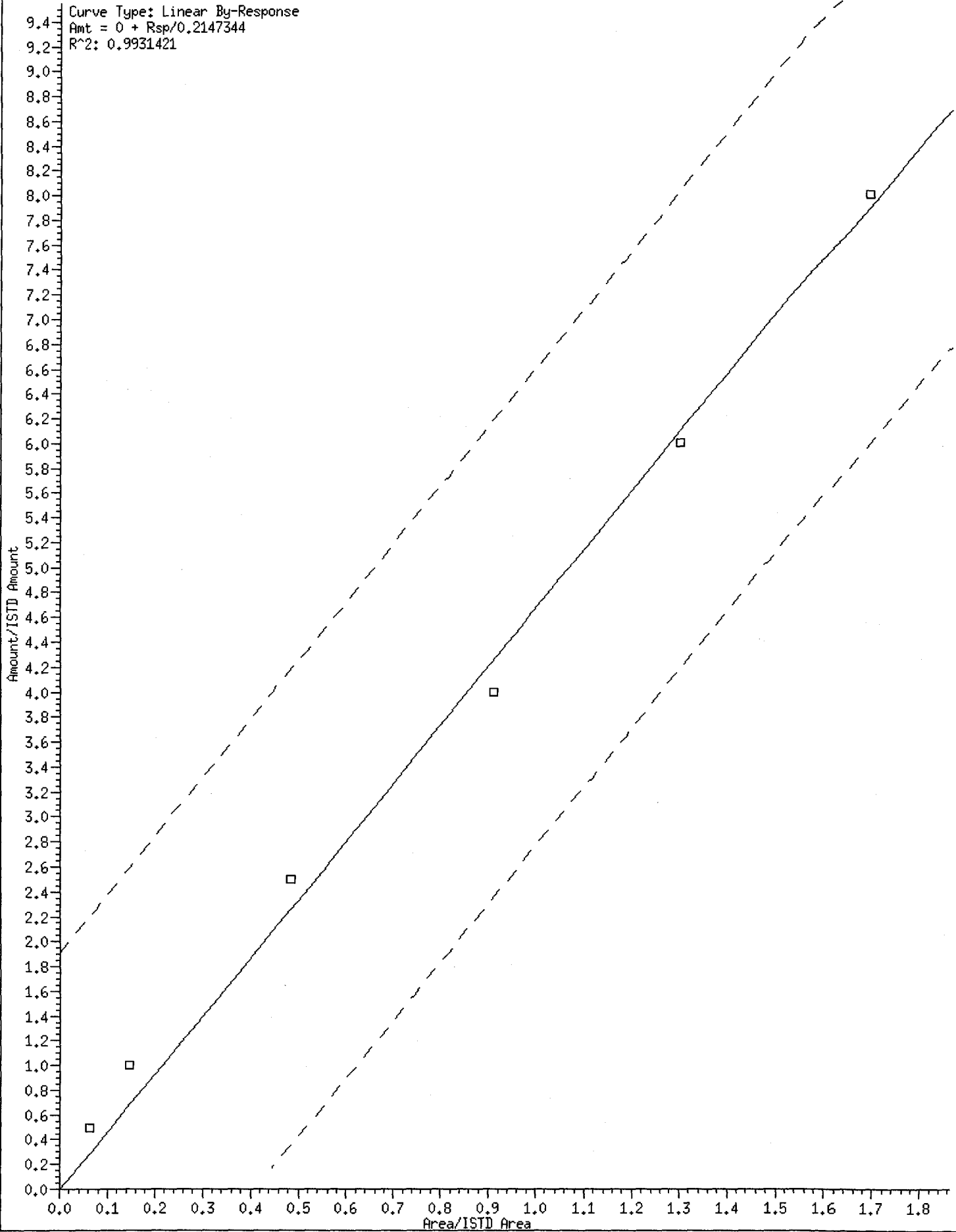
Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing

B 05/24/12

| Compound | 1 | 5 | 10 | 25 | 40 | 60 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|---------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 80 Level 7 | | | | | | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 0.36192 0.33583 | 0.37782 | 0.37158 | 0.34727 | 0.38734 | 0.36293 | AVRG | | 0.36353 | | 4.85707 |
| 24 Benzoic acid | ++++ 5209192 | 180212 | 446422 | 1661998 | 2853914 | 3886060 | LINR | 0.000e+00 | 0.21473 | | 0.99314 |
| 25 2,4-Dichlorophenol | 0.34552 0.31905 | 0.33495 | 0.33539 | 0.35612 | 0.36847 | 0.34630 | AVRG | | 0.34369 | | 4.64801 |
| 26 1,2,4-Trichlorobenzene | 0.37969 0.34005 | 0.37905 | 0.37271 | 0.34903 | 0.39234 | 0.37083 | AVRG | | 0.36910 | | 4.96380 |
| 28 Naphthalene | 1.16662 0.75453 | 1.18044 | 1.13660 | 0.98989 | 1.00922 | 0.88046 | AVRG | | 1.01682 | | 15.63932 |
| 29 4-Chloroaniline | 0.47200 0.40674 | 0.51712 | 0.49305 | 0.46256 | 0.49132 | 0.44412 | AVRG | | 0.46956 | | 7.74533 |
| 30 Hexachlorobutadiene | 0.23182 0.21270 | 0.22869 | 0.22528 | 0.21331 | 0.23839 | 0.22744 | AVRG | | 0.22538 | | 4.18053 |

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24 Benzoic acid



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|--------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 34 2,4,6-Trichlorophenol | 0.40976 0.42589 | 0.37616 | 0.37678 | 0.40467 | 0.43617 | 0.44071 | 0.41002 | 6.421 |
| 35 2,4,5-Trichlorophenol | 0.32989 0.39957 | 0.37587 | 0.37262 | 0.42219 | 0.44166 | 0.43089 | 0.39610 | 9.952 |
| 37 2-Chloronaphthalene | 1.07746 0.91502 | 1.10551 | 1.09648 | 0.97141 | 1.07501 | 1.06718 | 1.04401 | 6.892 |
| 38 2-Nitroaniline | 0.17914 0.25786 | 0.28077 | 0.28056 | 0.24170 | 0.27939 | 0.27473 | 0.25631 | 14.450 |
| 39 Dimethylphthalate | 1.12332 0.92331 | 1.18336 | 1.14162 | 0.95371 | 1.06114 | 1.03279 | 1.05989 | 9.165 |
| 40 Acenaphthylene | 1.80859 1.28874 | 1.90384 | 1.84837 | 1.51741 | 1.63487 | 1.43335 | 1.63360 | 14.188 |
| 41 2,6-Dinitrotoluene | 0.23083 0.26043 | 0.27405 | 0.27496 | 0.24089 | 0.27628 | 0.27802 | 0.26221 | 7.291 |
| 43 3-Nitroaniline | 0.26276 0.25516 | 0.34815 | 0.34126 | 0.29322 | 0.30796 | 0.29118 | 0.29996 | 11.869 |
| 44 Acenaphthene | 1.15555 ++++ | 1.19475 | 1.16257 | 0.97821 | 1.06233 | 1.02276 | 1.09603 | 7.965 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
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 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 45 2,4-Dinitrophenol | +++++ 0.19187 | 0.03261 | 0.07992 | 0.14373 | 0.17354 | 0.19720 | 0.13648 | 48.791 <- |
| 46 Dibenzofuran | 1.74589 1.19695 | 1.84329 | 1.71964 | 1.38960 | 1.48096 | 1.37073 | 1.53529 | 15.481 |
| 47 4-Nitrophenol | +++++ 0.10426 | 0.06240 | 0.07800 | 0.09051 | 0.10226 | 0.11191 | 0.09156 | 20.289 <- |
| 48 2,4-Dinitrotoluene | 0.26774 0.34861 | 0.34924 | 0.35502 | 0.31303 | 0.35994 | 0.37177 | 0.33791 | 10.608 |
| 49 Fluorene | 1.29581 1.03386 | 1.40825 | 1.36934 | 1.15829 | 1.25583 | 1.18902 | 1.24434 | 10.377 |
| 50 Diethylphthalate | 1.08145 0.88702 | 1.11962 | 1.08409 | 0.89709 | 1.00368 | 0.99525 | 1.00974 | 9.107 |
| 51 4-Chlorophenyl-phenylether | 0.62864 0.57151 | 0.64262 | 0.63267 | 0.54965 | 0.62993 | 0.61708 | 0.61030 | 5.792 |
| 52 4-Nitroaniline | 0.23247 0.28988 | 0.31063 | 0.28777 | 0.25425 | 0.29211 | 0.30866 | 0.28225 | 10.177 |
| 53 4,6-Dinitro-2-methylphenol | +++++ 0.15087 | 0.11147 | 0.13071 | 0.15115 | 0.16092 | 0.15996 | 0.14418 | 13.426 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

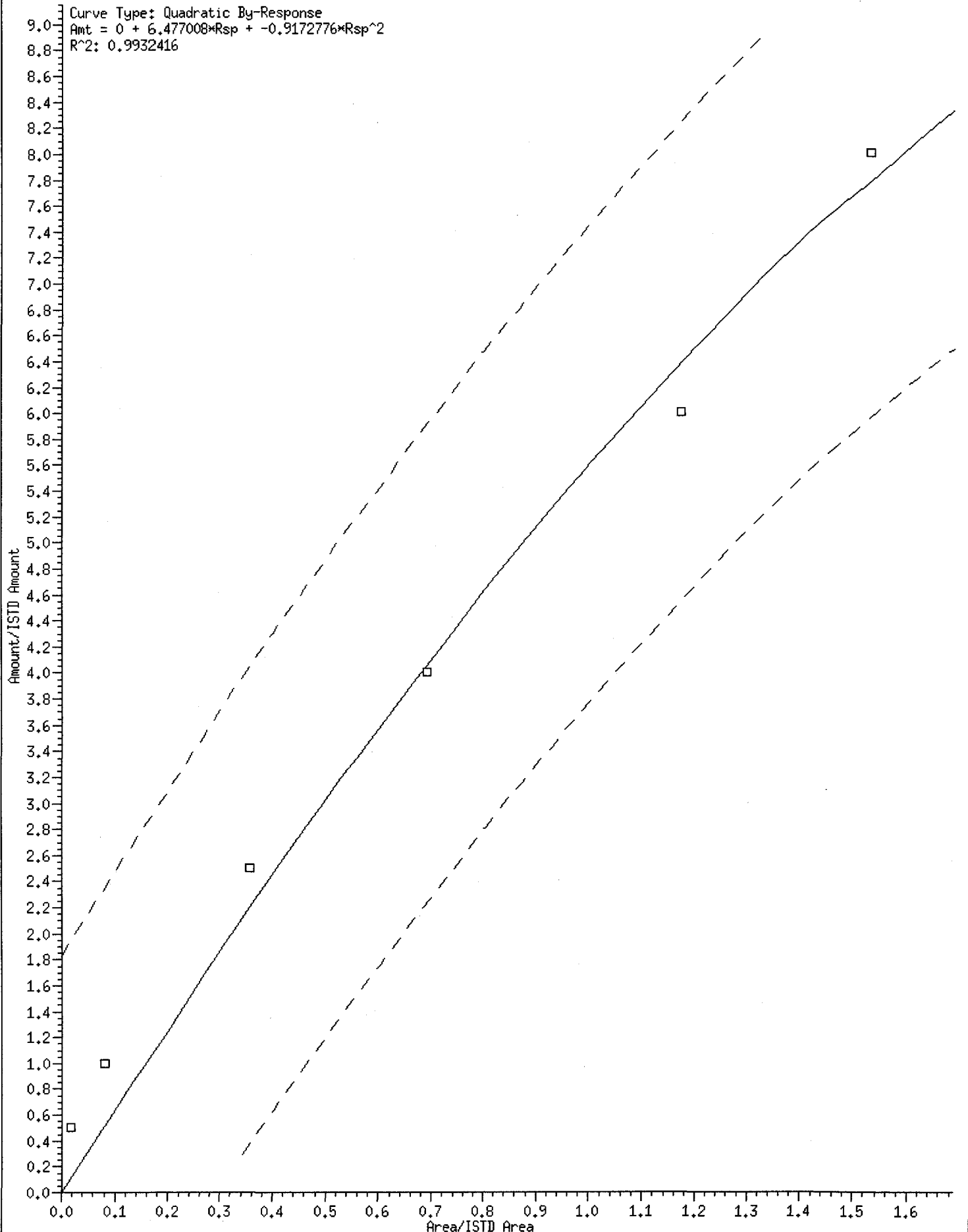
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 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing

Handwritten signature and date: J 05/24/12

| Compound | 1 | 5 | 10 | 25 | 40 | 60 | Curve | Coefficients | | %RSD or R ² | |
|-----------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|---------|---------------------------|---------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | | m2 |
| | 80 Level 7 | | | | | | | | | | |
| 39 Dimethylphthalate | 1.12332 0.92331 | 1.18336 | 1.14162 | 0.95371 | 1.06114 | 1.03279 | AVRG | | 1.05989 | 9.16459 | |
| 40 Acenaphthylene | 1.80859 1.28874 | 1.90384 | 1.84837 | 1.51741 | 1.63487 | 1.43335 | AVRG | | 1.63360 | 14.18782 | |
| 41 2,6-Dinitrotoluene | 0.23083 0.26043 | 0.27405 | 0.27496 | 0.24089 | 0.27628 | 0.27802 | AVRG | | 0.26221 | 7.29085 | |
| 43 3-Nitroaniline | 0.26276 0.25516 | 0.34815 | 0.34126 | 0.29322 | 0.30796 | 0.29118 | AVRG | | 0.29996 | 11.86906 | |
| 44 Acenaphthene | 1.15555 ++++ | 1.19475 | 1.16257 | 0.97821 | 1.06233 | 1.02276 | AVRG | | 1.09603 | 7.96460 | |
| 45 2,4-Dinitrophenol | ++++ 2924612 | 30032 | 153493 | 811764 | 1428791 | 2115908 | QUAD | 0.000e+00 | 6.47701 | -0.91728 | 0.99324 |
| 46 Dibenzofuran | 1.74589 1.19695 | 1.84329 | 1.71964 | 1.38960 | 1.48096 | 1.37073 | AVRG | | 1.53529 | 15.48073 | |

0052:00517

45 2,4-Dinitrophenol



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

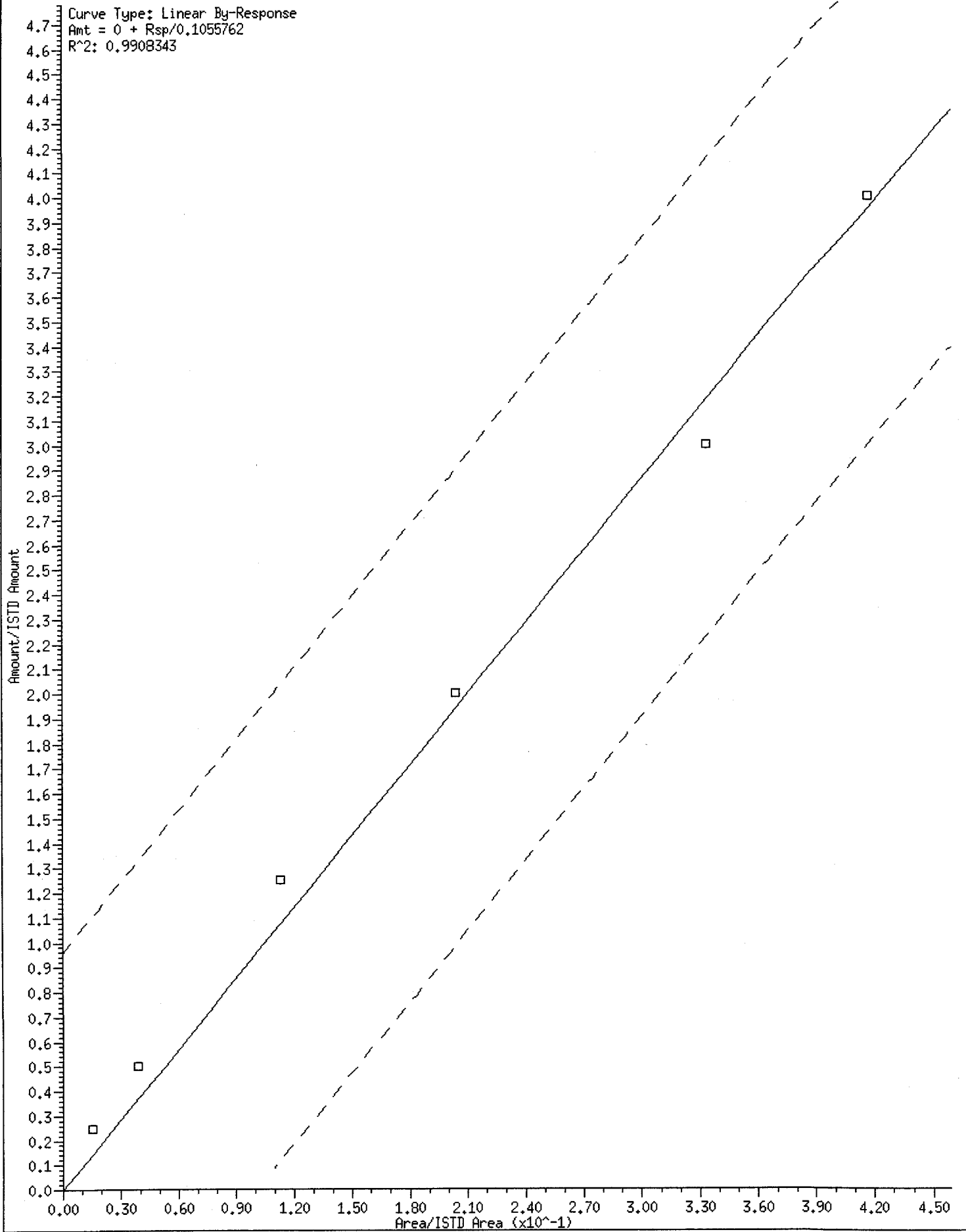
Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing

Handwritten signature and date: 25/5/12

| Compound | 1 | 5 | 10 | 25 | 40 | 60 | Curve | Coefficients | | %RSD or R ² | |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|---------|---------------------------|----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | | m2 |
| 47 4-Nitrophenol | ++++ 794628 | 28736 | 74902 | 255596 | 420980 | 600385 | LINR | 0.000e+00 | 0.10558 | | 0.99083 |
| 48 2,4-Dinitrotoluene | 0.26774 0.34861 | 0.34924 | 0.35502 | 0.31303 | 0.35994 | 0.37177 | AVRG | | 0.33791 | | 10.60842 |
| 49 Fluorene | 1.29581 1.03386 | 1.40825 | 1.36934 | 1.15829 | 1.25583 | 1.18902 | AVRG | | 1.24434 | | 10.37706 |
| 50 Diethylphthalate | 1.08145 0.88702 | 1.11962 | 1.08409 | 0.89709 | 1.00368 | 0.99525 | AVRG | | 1.00974 | | 9.10745 |
| 51 4-Chlorophenyl-phenylether | 0.62864 0.57151 | 0.64262 | 0.63267 | 0.54965 | 0.62993 | 0.61708 | AVRG | | 0.61030 | | 5.79156 |
| 52 4-Nitroaniline | 0.23247 0.28988 | 0.31063 | 0.28777 | 0.25425 | 0.29211 | 0.30866 | AVRG | | 0.28225 | | 10.17657 |
| 53 4,6-Dinitro-2-methylphenol | ++++ 0.15087 | 0.11147 | 0.13071 | 0.15115 | 0.16092 | 0.15996 | AVRG | | 0.14418 | | 13.42599 |

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47 4-Nitrophenol



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 0.50603 0.43226 | 0.54286 | 0.54955 | 0.47562 | 0.53754 | 0.48438 | 0.50404 | 8.515 |
| 56 4-Bromophenyl-phenylether | 0.25794 0.23046 | 0.26608 | 0.26115 | 0.23208 | 0.27112 | 0.24654 | 0.25220 | 6.421 |
| 57 Hexachlorobenzene | 0.32744 0.28419 | 0.33011 | 0.32784 | 0.29142 | 0.33623 | 0.30836 | 0.31508 | 6.540 |
| 58 Pentachlorophenol | ++++ 0.14719 | 0.04738 | 0.06649 | 0.12319 | 0.14221 | 0.15459 | 0.11351 | 40.030 <- |
| 60 Phenanthrene | 1.16316 0.78046 | 1.22001 | 1.17881 | 0.99031 | 1.03862 | 0.90708 | 1.03978 | 15.425 |
| 61 Anthracene | 1.15161 0.75966 | 1.24102 | 1.20802 | 1.02069 | 1.06373 | 0.90965 | 1.05063 | 16.340 |
| 62 Carbazole | 0.88223 0.65329 | 0.93238 | 0.89150 | 0.76375 | 0.82373 | 0.76217 | 0.81558 | 11.823 |
| 63 Di-n-butylphthalate | 1.03028 0.72791 | 1.08687 | 1.08393 | 0.94874 | 0.99493 | 0.87853 | 0.96446 | 13.258 |
| 64 Fluoranthene | 1.24687 0.81640 | 1.27986 | 1.26062 | 1.08631 | 1.10729 | 0.98994 | 1.11247 | 15.194 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

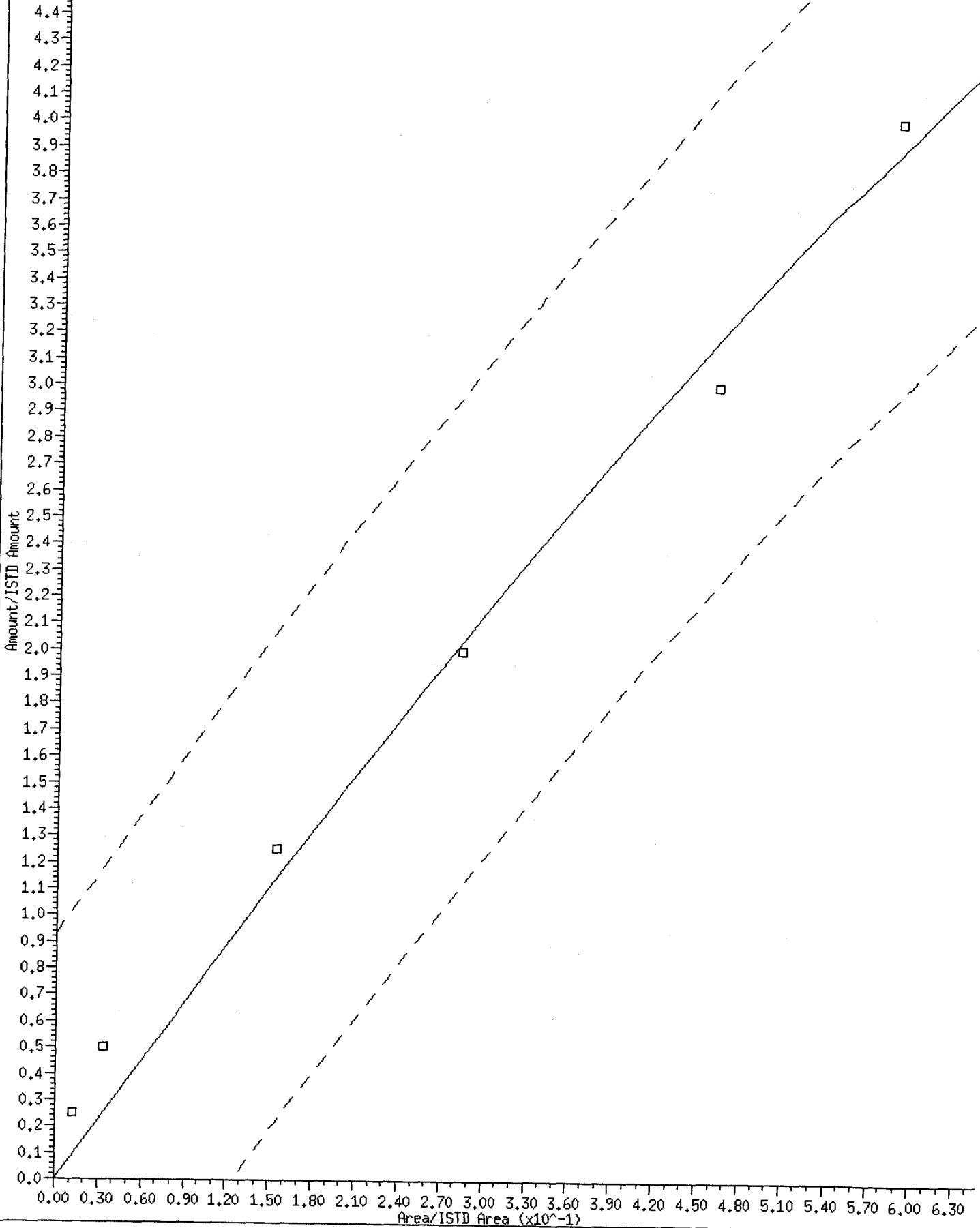
Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing

Handwritten: 12 25/4/17

| Compound | 1 | 5 | 10 | 25 | 40 | 60 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|--------------------|---------|---------|---------|---------|---------|-------|-----------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 80 Level 7 | | | | | | | | | | |
| 54 N-Nitrosodiphenylamine | 0.50603 0.43226 | 0.54286 | 0.54955 | 0.47562 | 0.53754 | 0.48438 | AVRG | | 0.50404 | | 8.51499 |
| 56 4-Bromophenyl-phenylether | 0.25794 0.23046 | 0.26608 | 0.26115 | 0.23208 | 0.27112 | 0.24654 | AVRG | | 0.25220 | | 6.42112 |
| 57 Hexachlorobenzene | 0.32744 0.28419 | 0.33011 | 0.32784 | 0.29142 | 0.33623 | 0.30836 | AVRG | | 0.31508 | | 6.54035 |
| 58 Pentachlorophenol | ++++ 1862334 | 34405 | 100161 | 530749 | 885434 | 1388607 | QUAD | 0.000e+00 | 7.67204 | -1.79828 | 0.99372 <- |
| 60 Phenanthrene | 1.16316 0.78046 | 1.22001 | 1.17881 | 0.99031 | 1.03862 | 0.90708 | AVRG | | 1.03978 | | 15.42489 |
| 61 Anthracene | 1.15161 0.75966 | 1.24102 | 1.20802 | 1.02069 | 1.06373 | 0.90965 | AVRG | | 1.05063 | | 16.33985 |
| 62 Carbazole | 0.88223 0.65329 | 0.93238 | 0.89150 | 0.76375 | 0.82373 | 0.76217 | AVRG | | 0.81558 | | 11.82318 |

58 Pentachlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 7.672037*Rsp + -1.798279*Rsp^2
R^2: 0.9937182



Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 | 5.000 | 10.000 | 25.000 | 40.000 | 60.000 | RRF | % RSD |
|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 65 Pyrene | 1.17667 0.72904 | 1.23169 | 1.20166 | 0.99269 | 1.04852 | 0.84932 | 1.03280 | 18.395 |
| 67 Butylbenzylphthalate | 0.36258 0.36149 | 0.40812 | 0.41200 | 0.37216 | 0.43191 | 0.39789 | 0.39231 | 6.963 |
| 68 Benzo(a)anthracene | 1.10422 ++++ | 1.14968 | 1.12090 | 0.96113 | 1.03514 | 0.89686 | 1.04465 | 9.506 |
| 70 3,3'-Dichlorobenzidine | 0.40249 0.33271 | 0.45417 | 0.41779 | 0.37377 | 0.41274 | 0.36975 | 0.39477 | 10.005 |
| 71 Chrysene | 1.06232 0.70611 | 1.11471 | 1.08286 | 0.92490 | 0.99307 | 0.83467 | 0.95981 | 15.453 |
| 72 bis(2-Ethylhexyl)phthalate | 0.58869 0.49404 | 0.58965 | 0.58841 | 0.51977 | 0.60221 | 0.55320 | 0.56228 | 7.358 |
| 73 Di-n-octylphthalate | 1.04858 0.72017 | 1.05429 | 1.03506 | 0.88423 | 0.96236 | 0.83818 | 0.93469 | 13.532 |
| 74 Benzo(b)fluoranthene | 1.11738 0.83887 | 1.25875 | 1.19686 | 1.06195 | 1.08053 | 0.99731 | 1.07881 | 12.682 |
| 75 Benzo(k)fluoranthene | 1.09148 0.83887 | 1.17579 | 1.19529 | 0.96313 | 1.11004 | 0.80866 | 1.02618 | 15.339 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing
 Curve Type : Average

| Compound | 1.000 Level 1 | 5.000 Level 2 | 10.000 Level 3 | 25.000 Level 4 | 40.000 Level 5 | 60.000 Level 6 | RRF | % RSD |
|------------------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------|-------|
| | 80.000 Level 7 | | | | | | | |
| \$ 137 d8-1,4-Dioxane | 0.47115 | 0.45377 | 0.44709 | 0.41964 | 0.45744 | 0.46134 | 0.44747 | 4.396 |
| | 0.42188 | | | | | | | |
| \$ 2 Phenol-d5 | 1.29233 | 1.40720 | 1.41014 | 1.30752 | 1.51690 | 1.38348 | 1.38626 | 5.870 |
| | ++++ | | | | | | | |
| \$ 5 2-Chlorophenol-d4 | 1.26430 | 1.38386 | 1.37219 | 1.25712 | 1.45000 | 1.33366 | 1.34352 | 5.532 |
| | ++++ | | | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.01613 | 0.99725 | 0.98074 | 0.89391 | 1.03429 | 0.95666 | 0.97983 | 5.104 |
| | ++++ | | | | | | | |
| \$ 18 Nitrobenzene-d5 | 0.30652 | 0.33165 | 0.33015 | 0.30227 | 0.34083 | 0.31181 | 0.32054 | 4.901 |
| | ++++ | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 1.32265 | 1.30199 | 1.27097 | 1.07338 | 1.18593 | 1.13421 | 1.21486 | 8.208 |
| | ++++ | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 0.23768 | 0.26284 | 0.26853 | 0.23197 | 0.27698 | 0.27944 | 0.25957 | 7.762 |
| | ++++ | | | | | | | |
| \$ 66 Terphenyl-d14 | 0.70363 | 0.75269 | 0.74977 | 0.62587 | 0.71361 | 0.60811 | 0.69228 | 8.912 |
| | ++++ | | | | | | | |
| \$ 85 p-Cresol-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| | ++++ | | | | | | | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 13:34
 End Cal Date : 23-MAY-2012 18:46
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem2/nt6.i/20120523.b/SW846052312.m
 Cal Date : 24-May-2012 12:53 jianqing

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/ml | Response |
| Linear | Amt = b + Rsp/ml | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 05231201 | 05231203 | 05231204 | 05231205 | 05231206 | 05231207 | 05231208 |
| INJ.DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ.TIME: | 13:34 | 14:41 | 15:15 | 15:48 | 16:22 | 16:56 | 18:46 |

Handwritten: B 05/24/12

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| \$ 1 2-Fluorophenol | 5.187 | 5.194 | 5.190 | 5.189 | 5.194 | 0.000 | 5.205 | 5.187 | 2.187-8.187 | 4.451 | 1.963 |
| 186 Carbaryl | 15.300 | 15.291 | 15.292 | 15.307 | 15.312 | 15.324 | 15.291 | 15.300 | 12.300-18.300 | 15.302 | 0.013 |
| 179 n-Decane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.061 | 5.061-11.061 | ++++ | ++++ |
| 180 n-Octadecane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 14.369 | 11.369-17.369 | ++++ | ++++ |
| 169 4-tert-Butylphenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 18.531 | 15.531-21.531 | ++++ | ++++ |
| 170 N,N-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 16.634 | 13.634-19.634 | ++++ | ++++ |
| 171 2,3-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 17.609 | 14.609-20.609 | ++++ | ++++ |
| 172 2,4-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 16.863 | 13.863-19.863 | ++++ | ++++ |
| 173 2,5-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 20.605 | 17.605-23.605 | ++++ | ++++ |
| 174 2,6-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 17.015 | 14.015-20.015 | ++++ | ++++ |
| 175 3,4-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 17.609 | 14.609-20.609 | ++++ | ++++ |
| 176 3,5-Dimethylaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 17.562 | 14.562-20.562 | ++++ | ++++ |
| 177 p-Benzoquinone | 5.834 | 5.836 | 5.831 | 5.835 | 5.841 | 5.836 | ++++ | 5.834 | 2.834-8.834 | 5.835 | 0.003 |
| 168 Pentachlorobenzene | 12.463 | 12.454 | 12.460 | 12.465 | 12.465 | 12.471 | 12.454 | 12.463 | 9.463-15.463 | 12.462 | 0.006 |
| 145 4,4'-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 47.212 | 44.212-50.212 | ++++ | ++++ |
| 146 4,4'-DDD | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 47.746 | 44.746-50.746 | ++++ | ++++ |
| 147 4,4'-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 48.216 | 45.216-51.216 | ++++ | ++++ |

Reviewer 1 _____
Reviewer 2 _____

Date: _____
Date: 5/24/12

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.281 | 44.281-50.281 | +++++ | +++++ |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.387 | 40.387-46.387 | +++++ | +++++ |
| 150 DCBP | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.989 | 47.989-53.989 | +++++ | +++++ |
| 138 Chlorobenzilate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 67.733 | 64.733-70.733 | +++++ | +++++ |
| 139 Isodrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.067 | 62.067-68.067 | +++++ | +++++ |
| 140 Diallate A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 141 Diallate B | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 142 1,2-Dibromo-3-Chloropr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.917 | 46.917-52.917 | +++++ | +++++ |
| 135 2,3,5,6-Tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.677 | 10.677-16.677 | +++++ | +++++ |
| 136 2,3,4,5-tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.317 | 36.317-42.317 | +++++ | +++++ |
| \$ 137 d8-1,4-Dioxane | 1.774 | 1.770 | 1.771 | 1.775 | 1.781 | 1.781 | 1.781 | 1.774 | 0.000-4.774 | 1.776 | 0.005 |
| * 134 Di-n-octylphthalate-d4 | 19.964 | 19.960 | 19.961 | 19.965 | 19.971 | 19.971 | 19.960 | 19.964 | 16.964-22.964 | 19.964 | 0.005 |
| 133 Butylatedhydroxytoluen | 12.330 | 12.326 | 12.327 | 12.331 | 12.331 | 12.337 | 12.326 | 12.330 | 9.330-15.330 | 12.330 | 0.004 |
| 132 3,6-Dimethylphenanthre | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.450 | 62.450-68.450 | +++++ | +++++ |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 64.400 | 61.400-67.400 | +++++ | +++++ |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 62.100 | 59.100-65.100 | +++++ | +++++ |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.912 | 51.912-57.912 | +++++ | +++++ |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.212 | 51.212-57.212 | +++++ | +++++ |
| 127 2-Isopropylaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 57.650 | 54.650-60.650 | +++++ | +++++ |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.750 | 53.750-59.750 | +++++ | +++++ |
| 144 alpha-Terpineol | 9.354 | 9.345 | 9.346 | 9.356 | 9.361 | 9.362 | 9.345 | 9.354 | 6.354-12.354 | 9.353 | 0.007 |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.166 | 49.166-55.166 | +++++ | +++++ |

0052:00528

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.617 | 47.617-53.617 | +++++ | +++++ |
| 123 Acetophenone | 7.922 | 7.919 | 7.919 | 7.929 | 7.930 | 7.935 | 7.924 | 7.922 | 4.922-10.922 | 7.926 | 0.006 |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.467 | 40.467-46.467 | +++++ | +++++ |
| 143 1,4-Dioxane | 1.806 | 1.802 | 1.803 | 1.807 | 1.813 | 1.819 | 1.818 | 1.806 | 0.000-4.806 | 1.810 | 0.007 |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.500 | 51.500-57.500 | +++++ | +++++ |
| 120 2,3,4,6-Tetrachlorophe | 12.725 | 12.722 | 12.727 | 12.727 | 12.732 | 12.733 | 12.727 | 12.725 | 9.725-15.725 | 12.727 | 0.004 |
| 178 2-Benzyl-4-Chloropheno | 15.273 | 15.270 | 15.265 | 15.280 | 15.286 | 15.297 | 15.270 | 15.273 | 12.273-18.273 | 15.277 | 0.011 |
| 119 7,12-Dimethylbenz(a)an | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.069 | 44.069-50.069 | +++++ | +++++ |
| 118 Triphenyl Phosphate | 18.318 | 18.315 | 18.315 | 18.320 | 18.325 | 18.326 | 18.315 | 18.318 | 15.318-21.318 | 18.319 | 0.005 |
| 117 Butyl Diphenyl Phospha | 16.737 | 16.733 | 16.734 | 16.739 | 16.744 | 16.745 | 16.733 | 16.737 | 13.737-19.737 | 16.738 | 0.005 |
| 116 Dibutyl Phenyl Phospha | 15.086 | 15.072 | 15.078 | 15.088 | 15.093 | 15.105 | 15.072 | 15.086 | 12.086-18.086 | 15.085 | 0.012 |
| 115 Tributyl Phosphate | 13.382 | 13.368 | 13.374 | 13.389 | 13.400 | 13.411 | 13.368 | 13.382 | 10.382-16.382 | 13.385 | 0.017 |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 48.950 | 45.950-51.950 | +++++ | +++++ |
| 113 Diphenyl Oxide | 11.395 | 11.391 | 11.392 | 11.402 | 11.402 | 11.403 | 11.396 | 11.395 | 8.395-14.395 | 11.397 | 0.005 |
| 112 Biphenyl | 11.197 | 11.199 | 11.199 | 11.199 | 11.204 | 11.205 | 11.199 | 11.197 | 8.197-14.197 | 11.200 | 0.003 |
| 111 Azobenzene (1,2-DP-Hyd | 13.265 | 13.256 | 13.262 | 13.272 | 13.272 | 13.278 | 13.256 | 13.265 | 10.265-16.265 | 13.265 | 0.008 |
| 110 Tetrachloroguaiacol | 14.440 | 14.431 | 14.431 | 14.441 | 14.447 | 14.453 | 14.436 | 14.440 | 11.440-17.440 | 14.440 | 0.008 |
| 109 3,4,5-Trichloroguaiaco | 12.832 | 12.823 | 12.823 | 12.833 | 12.834 | 12.840 | 12.828 | 12.832 | 9.832-15.832 | 12.830 | 0.006 |
| 181 3,4,6-Trichloroguaiaco | 12.944 | 12.941 | 12.941 | 12.946 | 12.951 | 12.952 | 12.946 | 12.944 | 9.944-15.944 | 12.946 | 0.004 |
| 108 4,5,6-Trichloroguaiaco | 13.858 | 13.854 | 13.855 | 13.859 | 13.865 | 13.871 | 13.854 | 13.858 | 10.858-16.858 | 13.859 | 0.006 |
| 184 3,4-Dichloroguaiacol | 11.299 | 11.295 | 11.296 | 11.300 | 11.300 | 11.306 | 11.300 | 11.299 | 8.299-14.299 | 11.300 | 0.004 |
| 107 4,5-Dichloroguaiacol | 12.095 | 12.091 | 12.092 | 12.102 | 12.102 | 12.108 | 12.096 | 12.095 | 9.095-15.095 | 12.098 | 0.006 |
| 182 4,6-Dichloroguaiacol | 12.095 | 12.091 | 12.092 | 12.102 | 12.102 | 12.108 | 12.096 | 12.095 | 9.095-15.095 | 12.098 | 0.006 |
| 185 4-Chloroguaiacol | 10.225 | 10.221 | 10.227 | 10.227 | 10.232 | 10.233 | 10.232 | 10.225 | 7.225-13.225 | 10.228 | 0.004 |

1192 : 00529

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol | 8.206 | 8.202 | 8.203 | 8.207 | 8.213 | 8.213 | 8.207 | 8.206 | 5.206-11.206 | 8.207 | 0.004 |
| 105 1-methylnaphthalene | 10.583 | 10.579 | 10.580 | 10.584 | 10.585 | 10.585 | 10.579 | 10.583 | 7.583-13.583 | 10.582 | 0.003 |
| 151 1,2,4,5-Tetrachloroben | 10.754 | 10.750 | 10.751 | 10.755 | 10.755 | 10.756 | 10.755 | 10.754 | 7.754-13.754 | 10.754 | 0.002 |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 30.943 | 27.943-33.943 | +++++ | +++++ |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.442 | 20.442-26.442 | +++++ | +++++ |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.968 | 18.968-24.968 | +++++ | +++++ |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.466 | 20.466-26.466 | +++++ | +++++ |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.866 | 19.866-25.866 | +++++ | +++++ |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.413 | 20.413-26.413 | +++++ | +++++ |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.952 | 21.952-27.952 | +++++ | +++++ |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.721 | 18.721-24.721 | +++++ | +++++ |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.159 | 15.159-21.159 | +++++ | +++++ |
| 161 1,2,3-Trichloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 36.246 | 33.246-39.246 | +++++ | +++++ |
| 162 1,2,3,4-Tetrachloronap | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 37.506 | 34.506-40.506 | +++++ | +++++ |
| 163 1,2,3,5,8-Pentachloron | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.893 | 35.893-41.893 | +++++ | +++++ |
| 164 1,2,3,4,6,7-Hexachloro | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.681 | 36.681-42.681 | +++++ | +++++ |
| 165 1,2,3,4,5,6,7-Heptachl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 41.123 | 38.123-44.123 | +++++ | +++++ |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.253 | 39.253-45.253 | +++++ | +++++ |
| 167 2,2',4,4',5-Pentabromo | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.033 | 39.033-45.033 | +++++ | +++++ |
| \$ 2 Phenol-d5 | 6.870 | 6.867 | 6.862 | 6.872 | 6.877 | 0.000 | 6.872 | 6.870 | 3.870-9.870 | 5.888 | 2.597 |
| 3 Phenol | 6.886 | 6.883 | 6.883 | 6.888 | 6.893 | 6.894 | 6.888 | 6.886 | 3.886-9.886 | 6.888 | 0.004 |
| 4 Bis(2-Chloroethyl)ethe | 6.897 | 6.888 | 6.894 | 6.898 | 6.904 | 6.899 | 6.898 | 6.897 | 3.897-9.897 | 6.897 | 0.005 |
| 5 2-Chlorophenol-d4 | 6.907 | 6.904 | 6.904 | 6.909 | 6.909 | 0.000 | 6.914 | 6.907 | 3.907-9.907 | 5.921 | 2.611 |

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|----------|--------------|--------|---------|
| 6 2-Chlorophenol | 6.934 | 6.931 | 6.931 | 6.936 | 6.936 | 6.936 | 6.936 | 6.934 | 3.934-9.934 | 6.934 | 0.002 |
| 7 1,3-Dichlorobenzene | 7.121 | 7.123 | 7.123 | 7.128 | 7.128 | 7.129 | 7.128 | 7.121 | 4.121-10.121 | 7.126 | 0.003 |
| * 8 1,4-Dichlorobenzene-d4 | 7.191 | 7.187 | 7.193 | 7.192 | 7.198 | 7.193 | 7.192 | 7.191 | 4.191-10.191 | 7.192 | 0.003 |
| 9 1,4-Dichlorobenzene | 7.217 | 7.214 | 7.214 | 7.219 | 7.219 | 7.220 | 7.219 | 7.217 | 4.217-10.217 | 7.217 | 0.002 |
| \$ 10 1,2-Dichlorobenzene-d4 | 7.495 | 7.492 | 7.492 | 7.497 | 7.497 | 0.000 | 7.497 | 7.495 | 4.495-10.495 | 6.424 | 2.833 |
| 11 Benzyl alcohol | 7.532 | 7.529 | 7.524 | 7.534 | 7.540 | 7.545 | 7.534 | 7.532 | 4.532-10.532 | 7.534 | 0.007 |
| 12 1,2-Dichlorobenzene | 7.516 | 7.513 | 7.513 | 7.518 | 7.518 | 7.519 | 7.518 | 7.516 | 4.516-10.516 | 7.517 | 0.002 |
| 13 2-Methylphenol | 7.816 | 7.812 | 7.813 | 7.817 | 7.823 | 7.823 | 7.817 | 7.816 | 4.816-10.816 | 7.817 | 0.004 |
| 14 2,2'-oxybis(1-Chloropr | 7.784 | 7.785 | 7.786 | 7.785 | 7.785 | 7.791 | 7.785 | 7.784 | 4.784-10.784 | 7.786 | 0.002 |
| 15 4-Methylphenol | 8.056 | 8.053 | 8.053 | 8.063 | 8.068 | 8.069 | 8.058 | 8.056 | 5.056-11.056 | 8.060 | 0.007 |
| 16 N-Nitroso-di-n-propyla | 8.008 | 7.999 | 8.000 | 8.015 | 8.026 | 8.026 | 7.999 | 8.008 | 5.008-11.008 | 8.010 | 0.012 |
| 17 Hexachloroethane | 8.003 | 7.999 | 8.000 | 8.004 | 8.004 | 8.005 | 8.004 | 8.003 | 5.003-11.003 | 8.003 | 0.002 |
| \$ 18 Nitrobenzene-d5 | 8.152 | 8.143 | 8.149 | 8.154 | 8.159 | 0.000 | 8.148 | 8.152 | 5.152-11.152 | 6.987 | 3.081 |
| 19 Nitrobenzene | 8.179 | 8.170 | 8.176 | 8.186 | 8.186 | 8.187 | 8.181 | 8.179 | 5.179-11.179 | 8.181 | 0.006 |
| 20 Isophorone | 8.574 | 8.565 | 8.566 | 8.581 | 8.587 | 8.593 | 8.570 | 8.574 | 5.574-11.574 | 8.577 | 0.010 |
| 21 2-Nitrophenol | 8.702 | 8.699 | 8.699 | 8.704 | 8.704 | 8.710 | 8.704 | 8.702 | 5.702-11.702 | 8.703 | 0.004 |
| 22 2,4-Dimethylphenol | 8.879 | 8.875 | 8.876 | 8.886 | 8.886 | 8.892 | 8.880 | 8.879 | 5.879-11.879 | 8.882 | 0.006 |
| 23 Bis(2-Chloroethoxy)met | 9.002 | 8.993 | 8.999 | 9.003 | 9.009 | 9.009 | 8.998 | 9.002 | 6.002-12.002 | 9.002 | 0.006 |
| 24 Benzoic acid | 9.188 | 9.084 | 9.116 | 9.233 | 9.265 | 9.303 | 9.067 | 9.188 | 6.189-12.188 | 9.179 | 0.093 |
| 25 2,4-Dichlorophenol | 9.114 | 9.110 | 9.111 | 9.115 | 9.121 | 9.121 | 9.121 | 9.114 | 6.114-12.114 | 9.116 | 0.005 |
| 26 1,2,4-Trichlorobenzene | 9.210 | 9.206 | 9.207 | 9.212 | 9.212 | 9.218 | 9.206 | 9.210 | 6.210-12.210 | 9.210 | 0.004 |
| * 27 Naphthalene-d8 | 9.258 | 9.255 | 9.255 | 9.260 | 9.260 | 9.266 | 9.254 | 9.258 | 6.258-12.258 | 9.258 | 0.004 |
| 28 Naphthalene | 9.290 | 9.281 | 9.287 | 9.292 | 9.292 | 9.298 | 9.286 | 9.290 | 6.290-12.290 | 9.289 | 0.005 |
| 29 4-Chloroaniline | 9.466 | 9.463 | 9.463 | 9.468 | 9.473 | 9.479 | 9.468 | 9.466 | 6.466-12.466 | 9.469 | 0.006 |

15052 : 00531

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene | 9.627 | 9.623 | 9.624 | 9.628 | 9.628 | 9.629 | 9.628 | 9.627 | 6.627-12.627 | 9.627 | 0.002 |
| 31 4-Chloro-3-methylpheno | 10.337 | 10.339 | 10.339 | 10.339 | 10.344 | 10.345 | 10.344 | 10.337 | 7.337-13.337 | 10.341 | 0.003 |
| 32 2-Methylnaphthalene | 10.412 | 10.408 | 10.414 | 10.419 | 10.419 | 10.420 | 10.414 | 10.412 | 7.412-13.412 | 10.415 | 0.004 |
| 33 Hexachlorocyclopentadi | 10.796 | 10.798 | 10.799 | 10.798 | 10.798 | 10.799 | 10.803 | 10.796 | 7.796-13.796 | 10.799 | 0.002 |
| 34 2,4,6-Trichlorophenol | 10.957 | 10.953 | 10.954 | 10.958 | 10.964 | 10.964 | 10.958 | 10.957 | 7.957-13.957 | 10.958 | 0.004 |
| 35 2,4,5-Trichlorophenol | 11.026 | 11.023 | 11.023 | 11.023 | 11.028 | 11.029 | 11.028 | 11.026 | 8.026-14.026 | 11.026 | 0.003 |
| \$ 36 2-Fluorobiphenyl | 11.074 | 11.071 | 11.071 | 11.076 | 11.076 | 0.000 | 11.071 | 11.074 | 8.074-14.074 | 9.491 | 4.185 |
| 37 2-Chloronaphthalene | 11.186 | 11.178 | 11.183 | 11.188 | 11.188 | 11.189 | 11.183 | 11.186 | 8.186-14.186 | 11.185 | 0.004 |
| 38 2-Nitroaniline | 11.448 | 11.439 | 11.445 | 11.455 | 11.455 | 11.461 | 11.445 | 11.448 | 8.448-14.448 | 11.450 | 0.008 |
| 39 Dimethylphthalate | 11.838 | 11.829 | 11.830 | 11.845 | 11.845 | 11.857 | 11.829 | 11.838 | 8.838-14.838 | 11.839 | 0.010 |
| 40 Acenaphthylene | 11.854 | 11.845 | 11.851 | 11.856 | 11.856 | 11.862 | 11.851 | 11.854 | 8.854-14.854 | 11.854 | 0.005 |
| 41 2,6-Dinitrotoluene | 11.918 | 11.910 | 11.915 | 11.925 | 11.931 | 11.937 | 11.915 | 11.918 | 8.918-14.918 | 11.922 | 0.010 |
| * 42 Acenaphthene-d10 | 12.105 | 12.102 | 12.102 | 12.107 | 12.107 | 12.108 | 12.102 | 12.105 | 9.105-15.105 | 12.105 | 0.003 |
| 43 3-Nitroaniline | 12.127 | 12.118 | 12.118 | 12.134 | 12.144 | 12.150 | 12.123 | 12.127 | 9.127-15.127 | 12.131 | 0.013 |
| 44 Acenaphthene | 12.153 | 12.150 | 12.150 | 12.160 | 12.160 | 12.166 | 12.150 | 12.153 | 9.153-15.153 | 12.156 | 0.007 |
| 45 2,4-Dinitrophenol | 12.298 | 12.294 | 12.289 | 12.299 | 12.310 | 12.316 | 0.000 | 12.298 | 9.298-15.298 | 10.544 | 4.649 |
| 46 Dibenzofuran | 12.420 | 12.412 | 12.418 | 12.422 | 12.428 | 12.434 | 12.411 | 12.420 | 9.420-15.420 | 12.421 | 0.008 |
| 47 4-Nitrophenol | 12.517 | 12.524 | 12.519 | 12.524 | 12.524 | 12.530 | 0.000 | 12.517 | 9.517-15.517 | 10.734 | 4.733 |
| 48 2,4-Dinitrotoluene | 12.538 | 12.535 | 12.535 | 12.545 | 12.550 | 12.556 | 12.534 | 12.538 | 9.538-15.538 | 12.542 | 0.009 |
| 49 Fluorene | 12.971 | 12.962 | 12.962 | 12.978 | 12.978 | 12.984 | 12.967 | 12.971 | 9.971-15.971 | 12.972 | 0.008 |
| 50 Diethylphthalate | 12.992 | 12.978 | 12.984 | 12.994 | 12.999 | 13.000 | 12.978 | 12.992 | 9.992-15.992 | 12.989 | 0.009 |
| 51 4-Chlorophenyl-phenyle | 13.019 | 13.015 | 13.016 | 13.020 | 13.021 | 13.027 | 13.015 | 13.019 | 10.019-16.019 | 13.019 | 0.004 |
| 52 4-Nitroaniline | 13.120 | 13.101 | 13.107 | 13.127 | 13.138 | 13.149 | 13.111 | 13.120 | 10.120-16.120 | 13.122 | 0.018 |
| 53 4,6-Dinitro-2-methylph | 13.190 | 13.176 | 13.181 | 13.197 | 13.208 | 13.214 | 13.181 | 13.190 | 10.190-16.190 | 13.192 | 0.014 |

0052:00532

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m
Batch File: /chem2/nt6.i/20120523.b
Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine | 13.232 | 13.224 | 13.229 | 13.239 | 13.245 | 13.251 | 13.223 | 13.232 | 10.232-16.233 | 13.235 | 0.011 |
| \$ 55 2,4,6-Tribromophenol | 13.398 | 13.389 | 13.395 | 13.400 | 13.405 | 0.000 | 13.394 | 13.398 | 10.398-16.398 | 11.483 | 6.064 |
| 56 4-Bromophenyl-phenylet | 13.788 | 13.785 | 13.785 | 13.790 | 13.790 | 13.790 | 13.784 | 13.788 | 10.788-16.788 | 13.787 | 0.003 |
| 57 Hexachlorobenzene | 13.986 | 13.982 | 13.983 | 13.987 | 13.993 | 13.993 | 13.982 | 13.986 | 10.986-16.986 | 13.987 | 0.005 |
| 58 Pentachlorophenol | 14.306 | 14.303 | 14.303 | 14.308 | 14.313 | 14.319 | 0.000 | 14.306 | 11.306-17.306 | 12.265 | 5.408 |
| * 59 Phenanthrene-d10 | 14.456 | 14.452 | 14.453 | 14.457 | 14.463 | 14.464 | 14.452 | 14.456 | 11.456-17.456 | 14.457 | 0.005 |
| 60 Phenanthrene | 14.493 | 14.484 | 14.485 | 14.495 | 14.500 | 14.506 | 14.484 | 14.493 | 11.493-17.493 | 14.493 | 0.009 |
| 61 Anthracene | 14.563 | 14.559 | 14.560 | 14.570 | 14.575 | 14.581 | 14.559 | 14.563 | 11.563-17.563 | 14.567 | 0.009 |
| 62 Carbazole | 14.873 | 14.869 | 14.870 | 14.874 | 14.880 | 14.886 | 14.869 | 14.873 | 11.873-17.873 | 14.874 | 0.006 |
| 63 Di-n-butylphthalate | 15.626 | 15.622 | 15.623 | 15.627 | 15.633 | 15.633 | 15.622 | 15.626 | 12.626-18.626 | 15.627 | 0.005 |
| 64 Fluoranthene | 16.411 | 16.402 | 16.408 | 16.413 | 16.418 | 16.419 | 16.407 | 16.411 | 13.411-19.411 | 16.411 | 0.006 |
| 65 Pyrene | 16.753 | 16.750 | 16.750 | 16.755 | 16.760 | 16.766 | 16.749 | 16.753 | 13.753-19.753 | 16.755 | 0.006 |
| \$ 66 Terphenyl-d14 | 17.106 | 17.102 | 17.103 | 17.113 | 17.113 | 0.000 | 17.107 | 17.106 | 14.106-20.106 | 14.663 | 6.466 |
| 67 Butylbenzylphthalate | 18.019 | 18.010 | 18.016 | 18.021 | 18.021 | 18.027 | 18.015 | 18.019 | 15.019-21.019 | 18.018 | 0.005 |
| 68 Benzo(a)anthracene | 18.708 | 18.705 | 18.705 | 18.715 | 18.715 | 18.721 | 18.704 | 18.708 | 15.708-21.708 | 18.711 | 0.007 |
| * 69 Chrysene-d12 | 18.735 | 18.726 | 18.727 | 18.737 | 18.742 | 18.743 | 18.731 | 18.735 | 15.735-21.735 | 18.734 | 0.007 |
| 70 3,3'-Dichlorobenzidine | 18.751 | 18.747 | 18.748 | 18.753 | 18.758 | 18.759 | 18.753 | 18.751 | 15.751-21.751 | 18.753 | 0.004 |
| 71 Chrysene | 18.772 | 18.763 | 18.764 | 18.779 | 18.785 | 18.791 | 18.763 | 18.772 | 15.772-21.772 | 18.774 | 0.011 |
| 72 bis(2-Ethylhexyl)phtha | 19.034 | 19.031 | 19.031 | 19.036 | 19.036 | 19.036 | 19.036 | 19.034 | 16.034-22.034 | 19.034 | 0.002 |
| 73 Di-n-octylphthalate | 19.974 | 19.965 | 19.971 | 19.976 | 19.976 | 19.982 | 19.971 | 19.974 | 16.974-22.974 | 19.974 | 0.005 |
| 74 Benzo(b)fluoranthene | 20.354 | 20.339 | 20.340 | 20.355 | 20.366 | 20.377 | 20.345 | 20.354 | 17.354-23.354 | 20.354 | 0.014 |
| 75 Benzo(k)fluoranthene | 20.386 | 20.371 | 20.377 | 20.393 | 20.398 | 20.377 | 20.377 | 20.386 | 17.386-23.386 | 20.383 | 0.010 |
| 76 Benzo(a)pyrene | 20.786 | 20.783 | 20.783 | 20.793 | 20.804 | 20.810 | 20.783 | 20.786 | 17.786-23.786 | 20.792 | 0.011 |
| 77 Perylene-d12 | 20.872 | 20.863 | 20.869 | 20.868 | 20.879 | 20.879 | 20.868 | 20.872 | 17.872-23.872 | 20.871 | 0.006 |

0052:00533

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/nt6.i/20120523.b/SW846052312.m

Batch File: /chem2/nt6.i/20120523.b

Inst ID: nt6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 78 Indeno(1,2,3-cd)pyrene | 22.218 | 22.209 | 22.210 | 22.225 | 22.236 | 22.242 | 22.209 | 22.218 | 19.218-25.218 | 22.221 | 0.013 |
| 79 Dibenzo(a,h)anthracene | 22.245 | 22.236 | 22.236 | 22.252 | 22.262 | 22.274 | 22.241 | 22.245 | 19.245-25.245 | 22.249 | 0.014 |
| 80 Benzo(g,h,i)perylene | 22.528 | 22.514 | 22.514 | 22.540 | 22.551 | 22.562 | 22.513 | 22.528 | 19.528-25.528 | 22.532 | 0.020 |
| \$ 85 p-Cresol-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 51.633 | 48.633-54.633 | ++++ | ++++ |
| \$ 86 Anthracene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 63.533 | 60.533-66.533 | ++++ | ++++ |
| \$ 87 Fluoranthene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 60.273 | 57.273-63.273 | ++++ | ++++ |
| \$ 88 Dibenz(a,h)anthracene- | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 78.600 | 75.600-81.600 | ++++ | ++++ |
| \$ 89 Diphenyl-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 50.841 | 47.841-53.841 | ++++ | ++++ |
| 90 N-Nitrosodimethylamine | 2.276 | 2.272 | 2.273 | 2.288 | 2.294 | 2.305 | 2.288 | 2.276 | 0.000-5.276 | 2.285 | 0.012 |
| 91 Aniline | 6.758 | 6.754 | 6.755 | 6.759 | 6.765 | 6.760 | 6.760 | 6.758 | 3.758-9.758 | 6.759 | 0.004 |
| 92 1,2-Diphenylhydrazine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 56.160 | 53.160-59.160 | ++++ | ++++ |
| 93 Benzidine | 16.700 | 16.696 | 16.697 | 16.701 | 16.701 | 16.702 | 16.707 | 16.700 | 13.700-19.700 | 16.700 | 0.004 |
| \$ 95 D10-1-methylnaphthalen | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 52.075 | 49.075-55.075 | ++++ | ++++ |
| 96 p-Cymene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 49.250 | 46.250-52.250 | ++++ | ++++ |
| 97 Caffeine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 61.202 | 58.202-64.202 | ++++ | ++++ |
| 98 Retene | 17.341 | 17.337 | 17.338 | 17.342 | 17.342 | 17.348 | 17.337 | 17.341 | 14.341-20.341 | 17.341 | 0.004 |
| 99 Perylene | 20.904 | 20.895 | 20.895 | 20.911 | 20.922 | 20.928 | 20.900 | 20.904 | 17.904-23.904 | 20.908 | 0.013 |
| 100 3-beta-Coprostanol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 22.074 | 19.074-25.074 | ++++ | ++++ |
| 101 Cholesterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 22.255 | 19.255-25.255 | ++++ | ++++ |
| 102 beta-Sitosterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 21.369 | 18.369-24.369 | ++++ | ++++ |
| 103 Pyridine | 2.254 | 2.256 | 2.251 | 2.256 | 2.261 | 2.267 | 2.277 | 2.254 | 0.000-5.254 | 2.261 | 0.009 |
| 187 Total Benzofluoranthen | 20.386 | 20.339 | 20.377 | 20.393 | 20.398 | 20.409 | 20.377 | 20.386 | 17.386-23.386 | 20.383 | 0.022 |

1652:00534

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.: GC=US00036167, MS=US81221575

Date: 5/23/12 Analysis: 8270 Analyst: EB
 GC Program: MS/MS Column No: 208282 Column Type: ZB - (MS)
 Instrument Tune (.U or .CT.): 170106 EM Voltage: 1741
 Calibration File: 05231201 Curve Date: 5/23/12 Injection Vol.: 1µl

| IS/SS | Ical/Ccal | LCS/ICV |
|---------------|-----------------------|-----------------------|
| <u>1875-1</u> | <u>1932-2, 1940-1</u> | <u>1972-2, 1973-2</u> |
| | <u>1941-1, 1942-1</u> | <u>1974-1, 1975-1</u> |
| | <u>1934-1</u> | <u>1976-1, 1977-1</u> |
| | <u>1939-3</u> | <u>1939-3</u> |

Document All Maintenance Tasks in StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem2/nt6.i/20120523.b

| Time | Filename | LabID | ClientID | DF | | | | | | | | | | | | | | | |
|------|----------|------------|-----------|------------|---|------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| 1 | 1334 | 05231201.D | IC250523 | IC250523 | 1 | 7.19 | 963757 | 9.26 | 3430476 | 12.11 | 2259168 | 14.46 | 3446677 | 18.73 | 3961525 | 20.87 | 4154109 | 19.96 | 3758743 |
| 2 | 1408 | 05231202.D | IC10523 | IC10523 | 1 | 7.19 | 947973 | 9.26 | 3384544 | 12.10 | 2179035 | 14.45 | 3573875 | 18.73 | 4171257 | 20.87 | 4420280 | 19.96 | 3899382 |
| 3 | 1441 | 05231203.D | IC50523 | IC50523 | 1 | 7.19 | 830650 | 9.25 | 2944206 | 12.10 | 1841983 | 14.45 | 2904487 | 18.73 | 3176606 | 20.86 | 3450025 | 19.96 | 2976173 |
| 4 | 1515 | 05231204.D | IC100523 | IC100523 | 1 | 7.19 | 859474 | 9.25 | 3055832 | 12.10 | 1920679 | 14.45 | 3012715 | 18.73 | 3283977 | 20.87 | 3490837 | 19.96 | 3087098 |
| 5 | 1548 | 05231205.D | IC400523 | IC400523 | 1 | 7.19 | 850778 | 9.26 | 3124146 | 12.11 | 2058292 | 14.46 | 3113173 | 18.74 | 3455807 | 20.87 | 3546130 | 19.97 | 3287975 |
| 6 | 1622 | 05231206.D | IC600523 | IC600523 | 1 | 7.20 | 819323 | 9.26 | 2967520 | 12.11 | 1788274 | 14.46 | 2994128 | 18.74 | 3573040 | 20.88 | 3676255 | 19.97 | 3341643 |
| 7 | 1656 | 05231207.D | IC800523 | IC800523 | 1 | 7.19 | 842934 | 9.27 | 3073829 | 12.11 | 1905330 | 14.46 | 3163164 | 18.74 | 3670223 | 20.88 | 3891837 | 19.97 | 3425170 |
| 8 | 1846 | 05231208.D | IC10523 | IC10523 | 1 | 7.19 | 963048 | 9.25 | 3427252 | 12.10 | 2193308 | 14.45 | 3489577 | 18.73 | 4014583 | 20.87 | 4374350 | 19.96 | 3756026 |
| 9 | 2029 | 05231209.D | ICV0523 | ICV0523 | 1 | 7.19 | 828280 | 9.26 | 3017500 | 12.11 | 1915567 | 14.46 | 3113458 | 18.73 | 3829511 | 20.87 | 3997364 | 19.96 | 3649186 |
| 10 | 2102 | 05231210.D | US34MBS1 | US34MBS1 | 1 | 7.18 | 866540 | 9.25 | 3111766 | 12.10 | 2004728 | 14.45 | 3197002 | 18.73 | 3774029 | 20.87 | 3971963 | 19.96 | 3527969 |
| 11 | 2135 | 05231211.D | US34LCSS1 | US34LCSS1 | 1 | 7.19 | 902732 | 9.26 | 3322440 | 12.11 | 2247384 | 14.45 | 3350241 | 18.73 | 4025667 | 20.87 | 4126364 | 19.96 | 3791957 |
| 12 | 2208 | 05231212.D | US34D | SPE003-40G | 1 | 7.19 | 900545 | 9.26 | 3307171 | 12.11 | 2101870 | 14.45 | 3172152 | 18.73 | 3804986 | 20.87 | 4196693 | 19.97 | 3821610 |
| 13 | 2241 | 05231213.D | US34MBS1 | US34MBS1 | 1 | 9.25 | 3298137 | 12.10 | 2159201 | 14.45 | 3465129 | 18.72 | 4029912 | 20.87 | 4294639 | | | | |
| 14 | 2314 | 05231214.D | US34LCSS1 | US34LCSS1 | 1 | 9.25 | 3202261 | 12.10 | 2145101 | 14.45 | 3510071 | 18.73 | 4040161 | 20.87 | 4247740 | | | | |
| 15 | 2347 | 05231215.D | US34O | SPE017-40G | 1 | 9.25 | 3402100 | 12.10 | 2160485 | 14.45 | 3494992 | 18.73 | 3855707 | 20.86 | 4134435 | | | | |

EB 05/24/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks in StarLIMS

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/nt6.i/20120523.b

ARI Job No.: IC25 Method: SW846052312.m Instrument: nt6.i Date: 23-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|---|
| 1334 | 05231201.D | IC250523 | IC250523 | 1 | NO MANUAL INTEGRATION |
| 1441 | 05231203.D | IC50523 | IC50523 | 1 | Benzoic acid, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Benzidine, Total Benzofluoranthenes, |
| 1515 | 05231204.D | IC100523 | IC100523 | 1 | Pentachlorophenol, Benzidine, |
| 1548 | 05231205.D | IC400523 | IC400523 | 1 | NO MANUAL INTEGRATION |
| 1622 | 05231206.D | IC600523 | IC600523 | 1 | Benzoic acid, |
| 1656 | 05231207.D | IC800523 | IC800523 | 1 | Benzoic acid, |
| 1846 | 05231208.D | IC10523 | IC10523 | 1 | Total Benzofluoranthenes, |

JB 05/24/12

U52:00536

Date : 23-MAY-2012 13:34

Client ID: DFTPP0523

Instrument: nt6.i

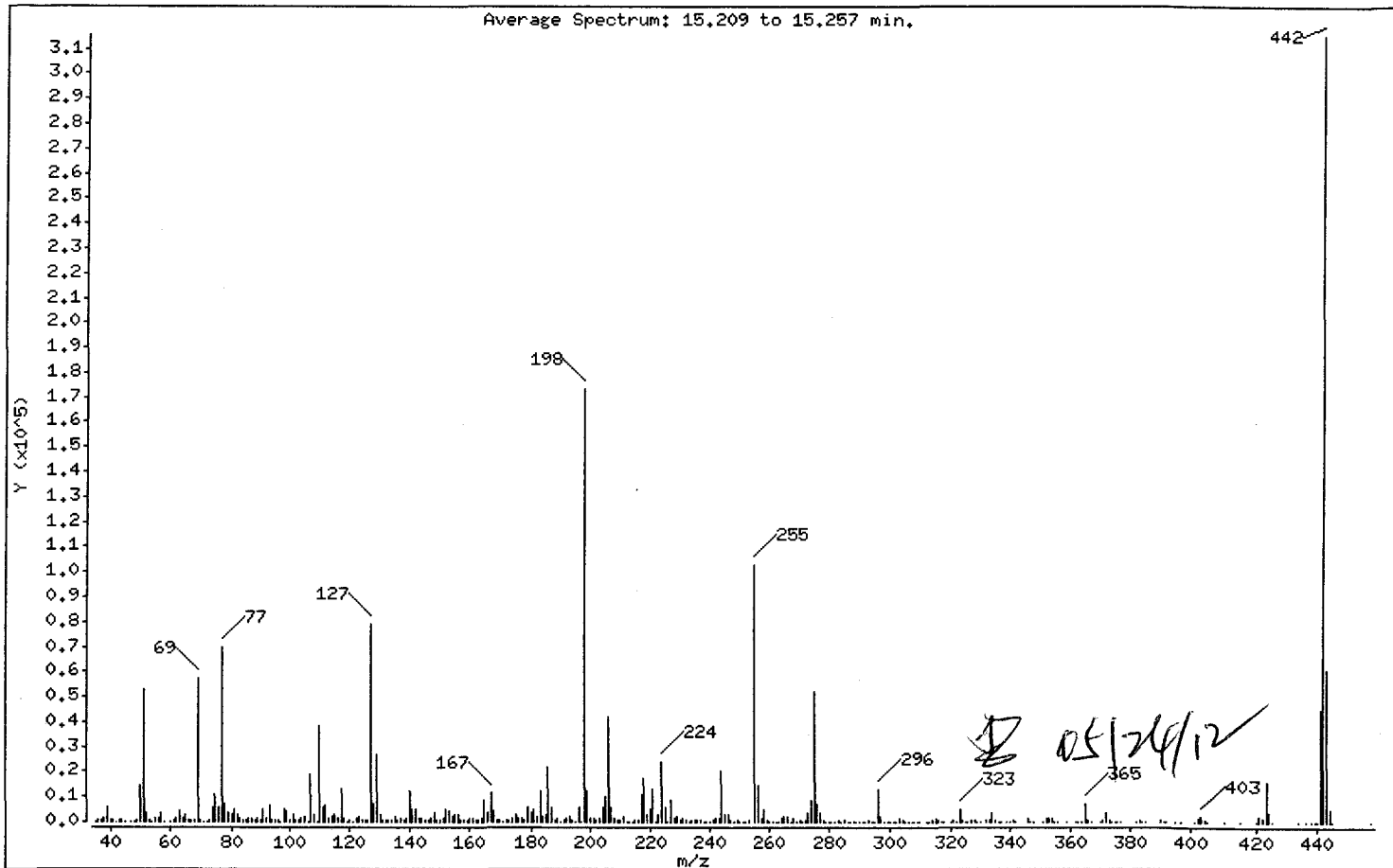
Sample Info: DFTPP0523

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

1 dftpp



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 30.67 |
| 68 | Less than 2.00% of mass 69 | 0.31 (0.94) |
| 69 | Mass 69 relative abundance | 33.21 |
| 70 | Less than 2.00% of mass 69 | 0.27 (0.81) |
| 127 | 10.00 - 80.00% of mass 198 | 45.67 |
| 197 | Less than 2.00% of mass 198 | 0.03 |
| 199 | 5.00 - 9.00% of mass 198 | 6.95 |
| 275 | 10.00 - 60.00% of mass 198 | 29.99 |
| 365 | Greater than 1.00% of mass 198 | 4.02 |
| 441 | 0.01 - 24.00% of mass 442 | 26.04 (14.30) |
| 442 | 50.00 - 200.00% of mass 198 | 182.18 |
| 443 | 15.00 - 24.00% of mass 442 | 35.24 (19.34) |

Date : 23-MAY-2012 13:34

Client ID: DFTPP0523

Instrument: nt6.i

Sample Info: DFTPP0523

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Data File: 05231201.D

Spectrum: Average Spectrum; 15.209 to 15.257 min.

Location of Maximum: 442.00

Number of points: 358

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|-------|--------|-------|--------|------|
| 35.00 | 77 | 127.00 | 79120 | 217.00 | 11231 | 308.00 | 230 |
| 36.00 | 650 | 128.00 | 6966 | 218.00 | 17304 | 309.00 | 63 |
| 37.00 | 452 | 129.00 | 27040 | 219.00 | 2806 | 310.00 | 146 |
| 38.00 | 1148 | 130.00 | 2598 | 220.00 | 5351 | 312.00 | 35 |
| 39.00 | 5460 | 131.00 | 873 | 221.00 | 12739 | 313.00 | 185 |
| 40.00 | 538 | 132.00 | 515 | 222.00 | 94 | 314.00 | 637 |
| 41.00 | 646 | 133.00 | 416 | 223.00 | 2797 | 315.00 | 1506 |
| 42.00 | 120 | 134.00 | 808 | 224.00 | 24168 | 316.00 | 971 |
| 43.00 | 374 | 135.00 | 2348 | 225.00 | 5734 | 317.00 | 153 |
| 44.00 | 480 | 136.00 | 964 | 226.00 | 333 | 318.00 | 36 |
| 45.00 | 215 | 137.00 | 1404 | 227.00 | 8589 | 320.00 | 49 |
| 47.00 | 140 | 138.00 | 608 | 228.00 | 1469 | 321.00 | 544 |
| 48.00 | 70 | 139.00 | 1445 | 229.00 | 1986 | 322.00 | 274 |
| 49.00 | 608 | 140.00 | 12523 | 230.00 | 584 | 323.00 | 4949 |
| 50.00 | 14187 | 141.00 | 5309 | 231.00 | 1135 | 324.00 | 938 |
| 51.00 | 53136 | 142.00 | 5078 | 232.00 | 407 | 325.00 | 57 |
| 52.00 | 3347 | 143.00 | 1579 | 233.00 | 232 | 326.00 | 144 |
| 53.00 | 800 | 144.00 | 1673 | 234.00 | 651 | 327.00 | 988 |
| 54.00 | 90 | 145.00 | 523 | 235.00 | 653 | 328.00 | 495 |
| 55.00 | 1153 | 146.00 | 684 | 236.00 | 478 | 329.00 | 102 |
| 56.00 | 1679 | 147.00 | 1769 | 237.00 | 929 | 330.00 | 34 |
| 57.00 | 3821 | 148.00 | 3565 | 238.00 | 153 | 332.00 | 412 |
| 58.00 | 299 | 149.00 | 1006 | 239.00 | 330 | 333.00 | 573 |
| 60.00 | 241 | 150.00 | 779 | 240.00 | 277 | 334.00 | 3369 |
| 61.00 | 1021 | 151.00 | 1792 | 241.00 | 753 | 335.00 | 824 |
| 62.00 | 1580 | 152.00 | 5150 | 242.00 | 1525 | 336.00 | 73 |
| 63.00 | 4254 | 153.00 | 4424 | 243.00 | 1444 | 337.00 | 20 |
| 64.00 | 1135 | 154.00 | 2251 | 244.00 | 20264 | 339.00 | 51 |
| 65.00 | 3175 | 155.00 | 2935 | 245.00 | 2840 | 340.00 | 91 |
| 66.00 | 408 | 156.00 | 3200 | 246.00 | 3211 | 341.00 | 609 |
| 67.00 | 380 | 157.00 | 900 | 247.00 | 981 | 342.00 | 163 |
| 68.00 | 538 | 158.00 | 757 | 248.00 | 249 | 346.00 | 1107 |
| 69.00 | 57528 | 159.00 | 766 | 249.00 | 916 | 347.00 | 181 |
| 70.00 | 464 | 160.00 | 1190 | 250.00 | 168 | 348.00 | 19 |
| 71.00 | 276 | 161.00 | 1614 | 251.00 | 202 | 351.00 | 69 |

Date : 23-MAY-2012 13:34

Client ID: DFTPP0523

Instrument: nt6.i

Sample Info: DFTPP0523

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

Data File: 05231201.D

Spectrum: Average Spectrum: 15.209 to 15.257 min.

Location of Maximum: 442.00

Number of points: 358

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|-------|--------|-------|--------|--------|--------|------|
| 72.00 | 52 | 162.00 | 700 | 252.00 | 249 | 352.00 | 1772 |
| 73.00 | 1008 | 163.00 | 1062 | 253.00 | 471 | 353.00 | 1209 |
| 74.00 | 5976 | 164.00 | 1242 | 255.00 | 102888 | 354.00 | 1641 |
| 75.00 | 10841 | 165.00 | 8498 | 256.00 | 14849 | 355.00 | 317 |
| 76.00 | 6029 | 166.00 | 3524 | 257.00 | 1168 | 356.00 | 41 |
| 77.00 | 69696 | 167.00 | 11334 | 258.00 | 5127 | 359.00 | 154 |
| 78.00 | 7381 | 168.00 | 4195 | 259.00 | 869 | 362.00 | 22 |
| 79.00 | 3938 | 169.00 | 1022 | 260.00 | 257 | 363.00 | 26 |
| 80.00 | 3011 | 170.00 | 391 | 261.00 | 228 | 364.00 | 36 |
| 81.00 | 5035 | 171.00 | 262 | 262.00 | 117 | 365.00 | 6971 |
| 82.00 | 3043 | 172.00 | 740 | 263.00 | 77 | 366.00 | 1016 |
| 83.00 | 1353 | 173.00 | 867 | 264.00 | 1439 | 367.00 | 21 |
| 84.00 | 540 | 174.00 | 1525 | 265.00 | 2166 | 370.00 | 209 |
| 85.00 | 951 | 175.00 | 3096 | 266.00 | 2069 | 371.00 | 464 |
| 86.00 | 1578 | 176.00 | 1134 | 267.00 | 283 | 372.00 | 3298 |
| 87.00 | 1179 | 177.00 | 1291 | 268.00 | 1155 | 373.00 | 861 |
| 88.00 | 443 | 178.00 | 538 | 269.00 | 200 | 374.00 | 66 |
| 89.00 | 1598 | 179.00 | 5516 | 270.00 | 364 | 375.00 | 23 |
| 90.00 | 901 | 180.00 | 3937 | 271.00 | 304 | 376.00 | 16 |
| 91.00 | 5097 | 181.00 | 4793 | 272.00 | 428 | 377.00 | 32 |
| 92.00 | 1333 | 182.00 | 2174 | 273.00 | 3380 | 382.00 | 43 |
| 93.00 | 6660 | 183.00 | 12325 | 274.00 | 8757 | 383.00 | 951 |
| 94.00 | 643 | 184.00 | 2515 | 275.00 | 51952 | 384.00 | 281 |
| 95.00 | 557 | 185.00 | 2714 | 276.00 | 6931 | 385.00 | 72 |
| 96.00 | 632 | 186.00 | 22000 | 277.00 | 3421 | 390.00 | 390 |
| 97.00 | 358 | 187.00 | 5988 | 278.00 | 621 | 391.00 | 261 |
| 98.00 | 5018 | 188.00 | 764 | 279.00 | 87 | 392.00 | 325 |
| 99.00 | 4266 | 189.00 | 1264 | 280.00 | 16 | 395.00 | 20 |
| 100.00 | 715 | 190.00 | 337 | 281.00 | 136 | 397.00 | 32 |
| 101.00 | 3113 | 191.00 | 718 | 282.00 | 115 | 401.00 | 267 |
| 102.00 | 804 | 192.00 | 1736 | 283.00 | 534 | 402.00 | 1268 |
| 103.00 | 1005 | 193.00 | 1988 | 284.00 | 278 | 403.00 | 2265 |
| 104.00 | 1562 | 194.00 | 491 | 285.00 | 727 | 404.00 | 767 |
| 105.00 | 2002 | 195.00 | 288 | 286.00 | 104 | 405.00 | 149 |
| 106.00 | 317 | 196.00 | 5634 | 287.00 | 48 | 410.00 | 61 |

Date : 23-MAY-2012 13:34

Client ID: DFTPP0523

Instrument: nt6.i

Sample Info: DFTPP0523

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Data File: 05231201.D

Spectrum: Average Spectrum: 15.209 to 15.257 min.

Location of Maximum: 442.00

Number of points: 358

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|-------|--------|--------|--------|-------|--------|--------|
| 107.00 | 19008 | 197.00 | 60 | 288.00 | 88 | 415.00 | 119 |
| 108.00 | 3091 | 198.00 | 173248 | 289.00 | 168 | 420.00 | 19 |
| 109.00 | 240 | 199.00 | 12047 | 290.00 | 156 | 421.00 | 1920 |
| 110.00 | 38104 | 200.00 | 1289 | 291.00 | 39 | 422.00 | 1715 |
| 111.00 | 5768 | 201.00 | 1463 | 292.00 | 179 | 423.00 | 15703 |
| 112.00 | 6648 | 202.00 | 364 | 293.00 | 968 | 424.00 | 3274 |
| 113.00 | 1107 | 203.00 | 1401 | 294.00 | 325 | 425.00 | 296 |
| 114.00 | 2059 | 204.00 | 5798 | 295.00 | 62 | 434.00 | 18 |
| 115.00 | 2691 | 205.00 | 10059 | 296.00 | 12846 | 436.00 | 26 |
| 116.00 | 1682 | 206.00 | 41832 | 297.00 | 1820 | 438.00 | 56 |
| 117.00 | 12846 | 207.00 | 5486 | 298.00 | 93 | 439.00 | 75 |
| 118.00 | 1203 | 208.00 | 1228 | 299.00 | 16 | 440.00 | 110 |
| 119.00 | 248 | 209.00 | 498 | 300.00 | 24 | 441.00 | 45120 |
| 120.00 | 400 | 210.00 | 679 | 301.00 | 215 | 442.00 | 315584 |
| 121.00 | 273 | 211.00 | 2126 | 302.00 | 275 | 443.00 | 61048 |
| 122.00 | 1422 | 212.00 | 177 | 303.00 | 1718 | 444.00 | 5295 |
| 123.00 | 2017 | 213.00 | 296 | 304.00 | 418 | 445.00 | 301 |
| 124.00 | 967 | 214.00 | 52 | 305.00 | 65 | 458.00 | 19 |
| 125.00 | 980 | 215.00 | 889 | 306.00 | 16 | | |
| 126.00 | 400 | 216.00 | 782 | 307.00 | 17 | | |

Data File: /chem2/nt6.i/20120523.b/tune.b/05231201.D

Page 1

Date : 23-MAY-2012 13:34

Client ID: DFTPP0523

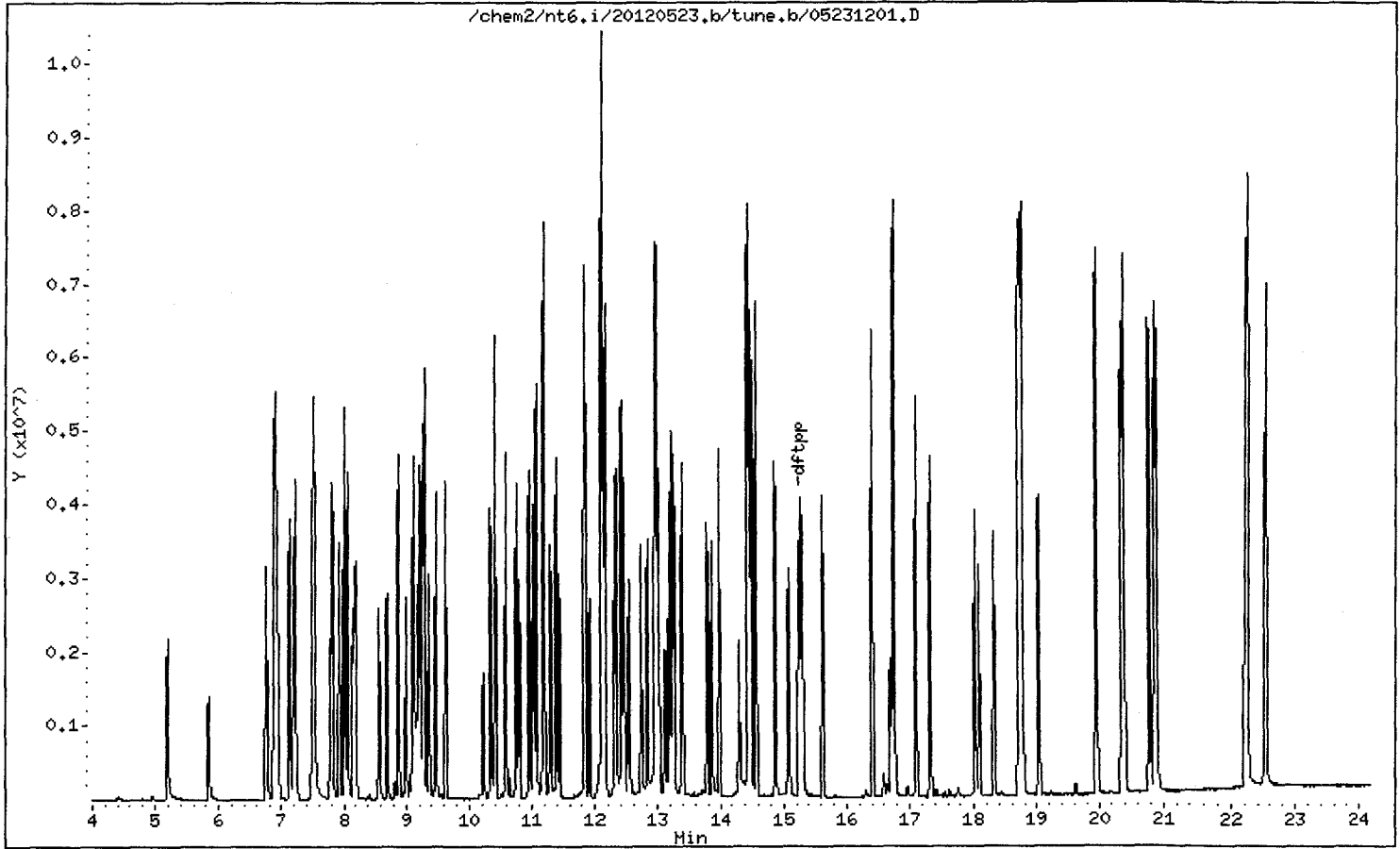
Instrument: nt6.i

Sample Info: DFTPP0523

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32



UU52 : 00541

Analytical Resources Inc.
 ABN by sw846 8270C
 DDT Breakdown Report

Data file: /chem2/nt6.i/20120523.b/ddt.b/05231201.D ARI ID: DDT0523
 Method: /chem2/nt6.i/20120523.b/ddt.b/sw846ddt.m Misc: 12-
 Analysis Date: 23-MAY-2012 13:34 Instrument: nt6.i

| COMPOUND | RT | AREA |
|-------------------|--------|---------|
| Pentachlorophenol | 14.306 | 530749 |
| Benzidine | 16.700 | 1550104 |
| 4,4'-DDE | ---- | ---- |
| 4,4'-DDD | 17.618 | 31465 |
| 4,4'-DDT | 18.083 | 1147384 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 31465) * 100}{(0 + 31465 + 1147384)}$$

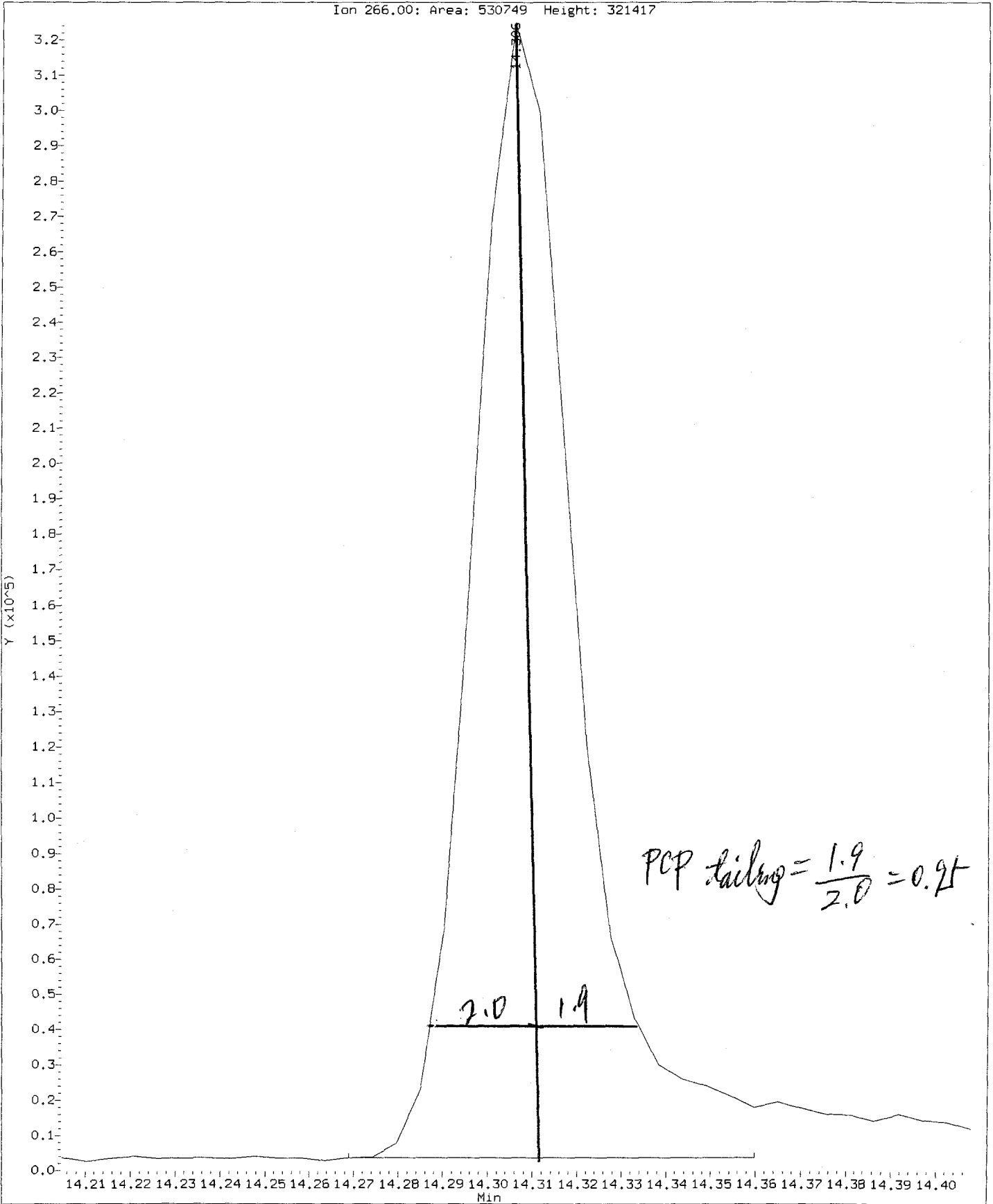
DDT Percent Breakdown = 2.7%

Handwritten signature and date: 25/24/12

Data File: /chem2/nt6.i/20120523.b/ddt.b/05231201.D
Injection Date: 23-MAY-2012 13:34
Instrument: nt6.i
Client Sample ID: DDT0523

Compound: Pentachlorophenol
CAS Number: 87-86-5

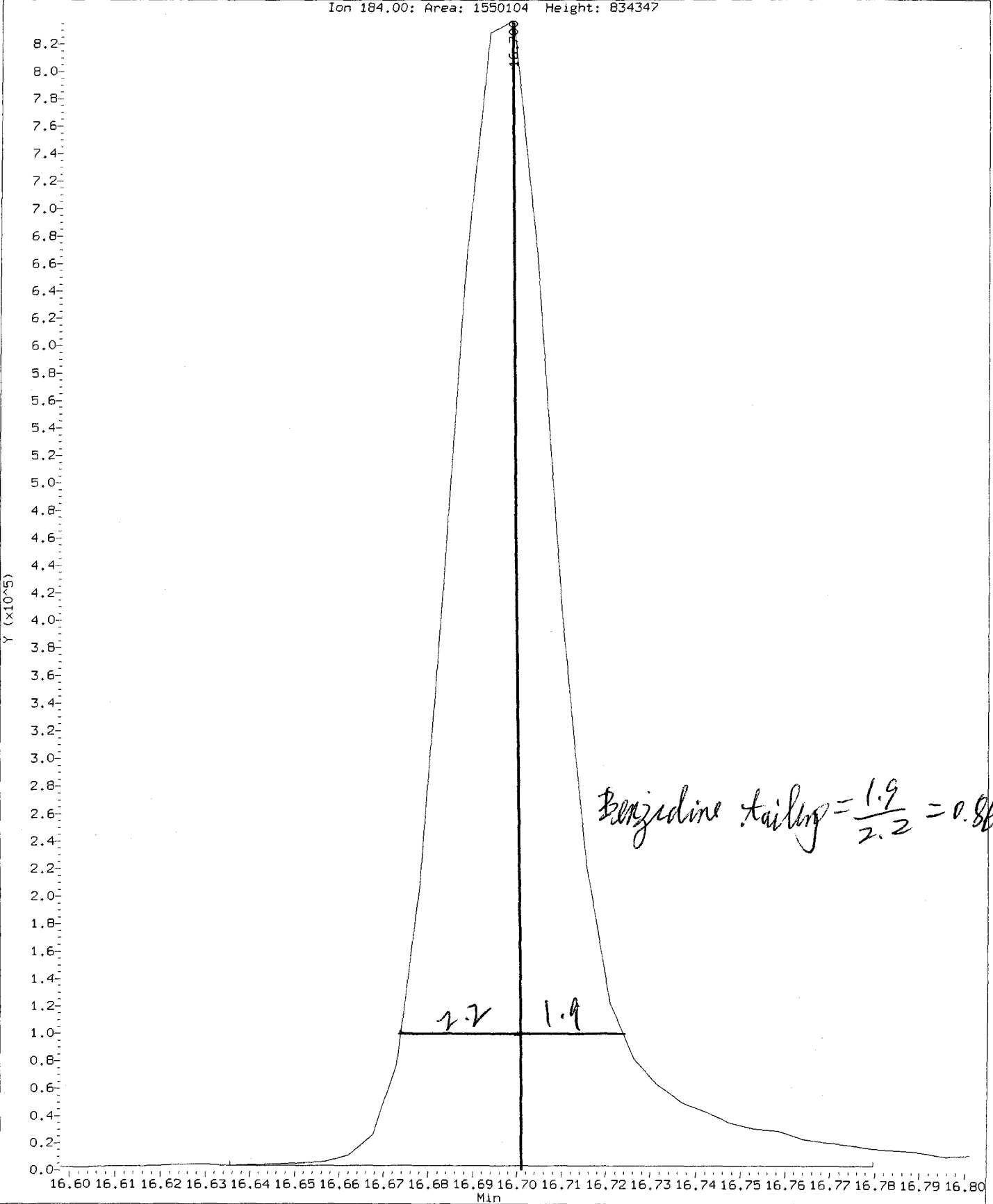
Ion 266.00: Area: 530749 Height: 321417



0052:00543

Data File: /chem2/nt6.i/20120523.b/ddt.b/05231201.D
Injection Date: 23-MAY-2012 13:34
Instrument: nt6.i
Client Sample ID: DDT0523

Compound: Benzidine
CAS Number:



0052:00544

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231208.D
 Lab Smp Id: IC10523
 Inj Date : 23-MAY-2012 18:46
 Operator : JZ
 Smp Info : IC10523
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 12:56 jianqing
 Cal Date : 23-MAY-2012 18:46
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt6.i
 Quant Type: ISTD
 Cal File: 05231208.D
 Calibration Sample, Level: 1
 Compound Sublist: ICALS.sub

Handwritten signature
 AMOUNTS

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CAL-AMT | ON-COL |
|---------------------------------|-------|-----|-------|--------|---------|----------|---------|---------|
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 5.205 | 5.194 | (0.724) | 49864 | 1.00000 | 1.000 |
| \$ 2 Phenol-d5 | 99 | | 6.872 | 6.877 | (0.955) | 62229 | 1.00000 | 1.000 |
| 3 Phenol | 94 | | 6.888 | 6.894 | (0.958) | 92931 | 1.00000 | 1.000 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 6.914 | 6.909 | (0.961) | 60879 | 1.00000 | 1.000 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 6.898 | 6.899 | (0.959) | 54779 | 1.00000 | 1.000 |
| 6 2-Chlorophenol | 128 | | 6.936 | 6.936 | (0.964) | 86603 | 1.00000 | 1.000 |
| 7 1,3-Dichlorobenzene | 146 | | 7.128 | 7.129 | (0.991) | 76849 | 1.00000 | 1.000 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 7.192 | 7.193 | (1.000) | 963048 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | | 7.219 | 7.220 | (1.004) | 76852 | 1.00000 | 1.000 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 7.497 | 7.497 | (1.042) | 48929 | 1.00000 | 1.000 |
| 12 1,2-Dichlorobenzene | 146 | | 7.518 | 7.519 | (1.045) | 72809 | 1.00000 | 1.000 |
| 11 Benzyl alcohol | 108 | | 7.534 | 7.545 | (1.048) | 28611 | 1.00000 | 1.000 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | | 7.785 | 7.791 | (1.082) | 64151 | 1.00000 | 1.000 |
| 13 2-Methylphenol | 108 | | 7.817 | 7.823 | (1.087) | 70220 | 1.00000 | 1.000 |
| 17 Hexachloroethane | 117 | | 8.004 | 8.005 | (1.113) | 25782 | 1.00000 | 1.000 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 7.999 | 8.026 | (1.112) | 36930 | 1.00000 | 1.000 |
| 15 4-Methylphenol | 108 | | 8.058 | 8.069 | (1.120) | 66975 | 1.00000 | 1.000 |
| \$ 18 Nitrobenzene-d5 | 82 | | 8.148 | 8.159 | (0.880) | 52526 | 1.00000 | 1.000 |
| 19 Nitrobenzene | 77 | | 8.181 | 8.187 | (0.884) | 55941 | 1.00000 | 1.000 |
| 20 Isophorone | 82 | | 8.570 | 8.593 | (0.926) | 83595 | 1.00000 | 1.000 |
| 21 2-Nitrophenol | 139 | | 8.704 | 8.710 | (0.941) | 43888 | 1.00000 | 1.000 |
| 22 2,4-Dimethylphenol | 107 | | 8.880 | 8.892 | (0.960) | 65496 | 1.00000 | 1.000 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 8.998 | 9.009 | (0.972) | 62019 | 1.00000 | 1.000 |
| 25 2,4-Dichlorophenol | 162 | | 9.121 | 9.121 | (0.986) | 59209 | 1.00000 | 1.000 |
| 26 1,2,4-Trichlorobenzene | 180 | | 9.206 | 9.218 | (0.995) | 65064 | 1.00000 | 1.000 |
| * 27 Naphthalene-d8 | 136 | | 9.254 | 9.266 | (1.000) | 3427252 | 20.0000 | |
| 28 Naphthalene | 128 | | 9.286 | 9.298 | (1.003) | 199915 | 1.00000 | 1.000 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|-------------------------------|-----------|------------------------|---------|---------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| 29 4-Chloroaniline | 127 | 9.468 | 9.479 | (1.023) | 80884 | 1.00000 | 1.000 | |
| 30 Hexachlorobutadiene | 225 | 9.628 | 9.629 | (1.040) | 39726 | 1.00000 | 1.000 | |
| 31 4-Chloro-3-methylphenol | 107 | 10.344 | 10.345 | (1.118) | 47007 | 1.00000 | 1.000 | |
| 32 2-Methylnaphthalene | 141 | 10.414 | 10.420 | (1.125) | 116882 | 1.00000 | 1.000 | |
| 34 2,4,6-Trichlorophenol | 196 | 10.958 | 10.964 | (0.906) | 44936 | 1.00000 | 1.000 | |
| 35 2,4,5-Trichlorophenol | 196 | 11.028 | 11.029 | (0.911) | 36177 | 1.00000 | 1.000 | |
| \$ 36 2-Fluorobiphenyl | 172 | 11.071 | 11.076 | (0.915) | 145049 | 1.00000 | 1.000 | |
| 37 2-Chloronaphthalene | 162 | 11.183 | 11.189 | (0.924) | 118160 | 1.00000 | 1.000 | |
| 38 2-Nitroaniline | 65 | 11.445 | 11.461 | (0.946) | 19645 | 1.00000 | 1.000 | |
| 39 Dimethylphthalate | 163 | 11.829 | 11.857 | (0.977) | 123189 | 1.00000 | 1.000 | |
| 40 Acenaphthylene | 152 | 11.851 | 11.862 | (0.979) | 198340 | 1.00000 | 1.000 | |
| 41 2,6-Dinitrotoluene | 165 | 11.915 | 11.937 | (0.985) | 25314 | 1.00000 | 1.000 | |
| * 42 Acenaphthene-d10 | 164 | 12.102 | 12.108 | (1.000) | 2193308 | 20.0000 | | |
| 43 3-Nitroaniline | 138 | 12.123 | 12.150 | (1.002) | 28816 | 1.00000 | 1.000 | |
| 44 Acenaphthene | 153 | 12.150 | 12.166 | (1.004) | 126724 | 1.00000 | 1.000 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 12.411 | 12.434 | (1.026) | 191464 | 1.00000 | 1.000 | |
| 47 4-Nitrophenol | 109 | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | 12.534 | 12.556 | (1.036) | 29362 | 1.00000 | 1.000 | |
| 50 Diethylphthalate | 149 | 12.978 | 13.000 | (1.072) | 118598 | 1.00000 | 1.000 | |
| 49 Fluorene | 166 | 12.967 | 12.984 | (1.071) | 142105 | 1.00000 | 1.000 | |
| 51 4-Chlorophenyl-phenylether | 204 | 13.015 | 13.027 | (1.075) | 68940 | 1.00000 | 1.000 | |
| 52 4-Nitroaniline | 138 | 13.111 | 13.149 | (1.083) | 25494 | 1.00000 | 1.000 | |
| 54 N-Nitrosodiphenylamine | 169 | 13.223 | 13.251 | (0.915) | 88292 | 1.00000 | 1.000 | |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.394 | 13.405 | (1.107) | 26065 | 1.00000 | 1.000 | |
| 56 4-Bromophenyl-phenylether | 248 | 13.784 | 13.790 | (0.954) | 45005 | 1.00000 | 1.000 | |
| 57 Hexachlorobenzene | 284 | 13.982 | 13.993 | (0.967) | 57132 | 1.00000 | 1.000 | |
| 58 Pentachlorophenol | 266 | Compound Not Detected. | | | | | | |
| * 59 Phenanthrene-d10 | 188 | 14.452 | 14.464 | (1.000) | 3489577 | 20.0000 | | |
| 60 Phenanthrene | 178 | 14.484 | 14.506 | (1.002) | 202947 | 1.00000 | 1.000 | |
| 61 Anthracene | 178 | 14.559 | 14.581 | (1.007) | 200932 | 1.00000 | 1.000 | |
| 62 Carbazole | 167 | 14.869 | 14.886 | (1.029) | 153930 | 1.00000 | 1.000 | |
| 63 Di-n-butylphthalate | 149 | 15.622 | 15.633 | (1.081) | 179762 | 1.00000 | 1.000 | |
| 64 Fluoranthene | 202 | 16.407 | 16.419 | (1.135) | 217553 | 1.00000 | 1.000 | |
| 65 Pyrene | 202 | 16.749 | 16.766 | (0.894) | 236191 | 1.00000 | 1.000 | |
| \$ 66 Terphenyl-d14 | 244 | 17.107 | 17.113 | (0.913) | 141240 | 1.00000 | 1.000 | |
| 67 Butylbenzylphthalate | 149 | 18.015 | 18.027 | (0.962) | 72780 | 1.00000 | 1.000 | |
| 68 Benzo(a)anthracene | 228 | 18.704 | 18.721 | (0.999) | 221650 | 1.00000 | 1.000 | |
| * 69 Chrysene-d12 | 240 | 18.731 | 18.743 | (1.000) | 4014583 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.753 | 18.759 | (1.001) | 80791 | 1.00000 | 1.000 | |
| 71 Chrysene | 228 | 18.763 | 18.791 | (1.002) | 213238 | 1.00000 | 1.000 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.036 | 19.036 | (0.954) | 110556 | 1.00000 | 1.000 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.960 | 19.971 | (1.000) | 3756026 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | 19.971 | 19.982 | (1.001) | 196924 | 1.00000 | 1.000 | |
| 74 Benzo(b)fluoranthene | 252 | 20.345 | 20.377 | (0.975) | 244390 | 1.00000 | 1.000 | |
| 75 Benzo(k)fluoranthene | 252 | 20.377 | 20.377 | (0.976) | 238725 | 1.00000 | 1.000 | |
| 187 Total Benzofluoranthenes | 252 | 20.377 | 20.409 | (0.976) | 460318 | 2.00000 | 2.000 (M) | |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|-----------------------------------|-----------|------------------------|---------|---------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | |
| 76 Benzo(a)pyrene | 252 | 20.783 | 20.810 | (0.996) | 213202 | 1.00000 | 1.000 | |
| * 77 Perylene-d12 | 264 | 20.868 | 20.879 | (1.000) | 4374350 | 20.0000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.209 | 22.242 | (1.064) | 292755 | 1.00000 | 1.000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 22.241 | 22.274 | (1.066) | 240155 | 1.00000 | 1.000 | |
| 80 Benzo(g,h,i)perylene | 276 | 22.513 | 22.562 | (1.079) | 250409 | 1.00000 | 1.000 | |
| 90 N-Nitrosodimethylamine | 74 | 2.288 | 2.305 | (0.318) | 33399 | 1.00000 | 1.000 | |
| 103 Pyridine | 79 | 2.277 | 2.267 | (0.317) | 47078 | 1.00000 | 1.000 | |
| 91 Aniline | 93 | 6.760 | 6.760 | (0.940) | 100185 | 1.00000 | 1.000 | |
| 105 1-methylnaphthalene | 141 | 10.579 | 10.585 | (1.143) | 91064 | 1.00000 | 1.000 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.256 | 13.278 | (1.095) | 103638 | 1.00000 | 1.000 | |
| 143 1,4-Dioxane | 88 | 1.818 | 1.819 | (0.253) | 19269 | 1.00000 | 1.000 | |
| § 137 d8-1,4-Dioxane | 96 | 1.781 | 1.781 | (0.248) | 22687 | 1.00000 | 1.000 | |
| 144 alpha-Terpineol | 59 | 9.345 | 9.362 | (1.010) | 33976 | 1.00000 | 1.000 | |
| 177 p-Benzoquinone | 82 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 17.337 | 17.348 | (0.926) | 72312 | 1.00000 | 1.000 | |
| 99 Perylene | 252 | 20.900 | 20.928 | (1.002) | 229077 | 1.00000 | 1.000 | |
| 133 Butylatedhydroxytoluene | 205 | 12.326 | 12.337 | (1.019) | 94930 | 1.00000 | 1.000 | |
| 115 Tributyl Phosphate | 99 | 13.368 | 13.411 | (0.925) | 103227 | 1.00000 | 1.000 | |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.072 | 15.105 | (1.043) | 79595 | 1.00000 | 1.000 | |
| 117 Butyl Diphenyl Phosphate | 94 | 16.733 | 16.745 | (0.893) | 21866 | 1.00000 | 1.000 | |
| 118 Triphenyl Phosphate | 326 | 18.315 | 18.326 | (0.978) | 44502 | 1.00000 | 1.000 | |
| 123 Acetophenone | 105 | 7.924 | 7.935 | (1.102) | 74432 | 1.00000 | 1.000 | |
| 168 Pentachlorobenzene | 250 | 12.454 | 12.471 | (1.029) | 57829 | 1.00000 | 1.000 | |
| 113 Diphenyl Oxide | 170 | 11.396 | 11.403 | (0.942) | 82078 | 1.00000 | 1.000 | |
| 112 Biphenyl | 154 | 11.199 | 11.205 | (0.925) | 133359 | 1.00000 | 1.000 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.727 | 12.733 | (1.052) | 24602 | 1.00000 | 1.000 | |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.755 | 10.756 | (0.889) | 60736 | 1.00000 | 1.000 | |
| 110 Tetrachloroguaiacol | 247 | 14.436 | 14.453 | (0.999) | 31926 | 2.00000 | 2.000 | |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.828 | 12.840 | (0.888) | 19390 | 1.00000 | 1.000 | |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.946 | 12.952 | (1.800) | 23203 | 1.00000 | 1.000 | |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.854 | 13.871 | (1.145) | 21277 | 1.00000 | 1.000 | |
| 184 3,4-Dichloroguaiacol | 192 | 11.300 | 11.306 | (1.571) | 20946 | 1.00000 | 1.000 | |
| 107 4,5-Dichloroguaiacol | 192 | 12.096 | 12.108 | (1.000) | 56991 | 2.00000 | 2.000 | |
| 182 4,6-Dichloroguaiacol | 192 | 12.096 | 12.108 | (1.682) | 56991 | 2.00000 | 2.000 | |
| 185 4-Chloroguaiacol | 115 | 10.232 | 10.233 | (1.423) | 10582 | 0.50000 | 0.5000 | |
| 186 Carbaryl | 144 | 15.291 | 15.324 | (1.058) | 81917 | 1.00000 | 1.000 | |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.270 | 15.297 | (1.057) | 29074 | 1.00000 | 1.000 | |
| 106 Guaiacol | 124 | 8.207 | 8.213 | (1.141) | 47398 | 1.00000 | 1.000 | |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231208.D
 Lab Smp Id: IC10523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 963048 | -0.07 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3427252 | -0.09 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2193308 | -2.92 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3489577 | 1.24 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 4014583 | 1.34 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3756026 | -0.07 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4374350 | 5.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.02 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.25 | -0.04 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.03 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.03 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.02 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.02 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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.

Date : 23-MAY-2012 18:46

Client ID:

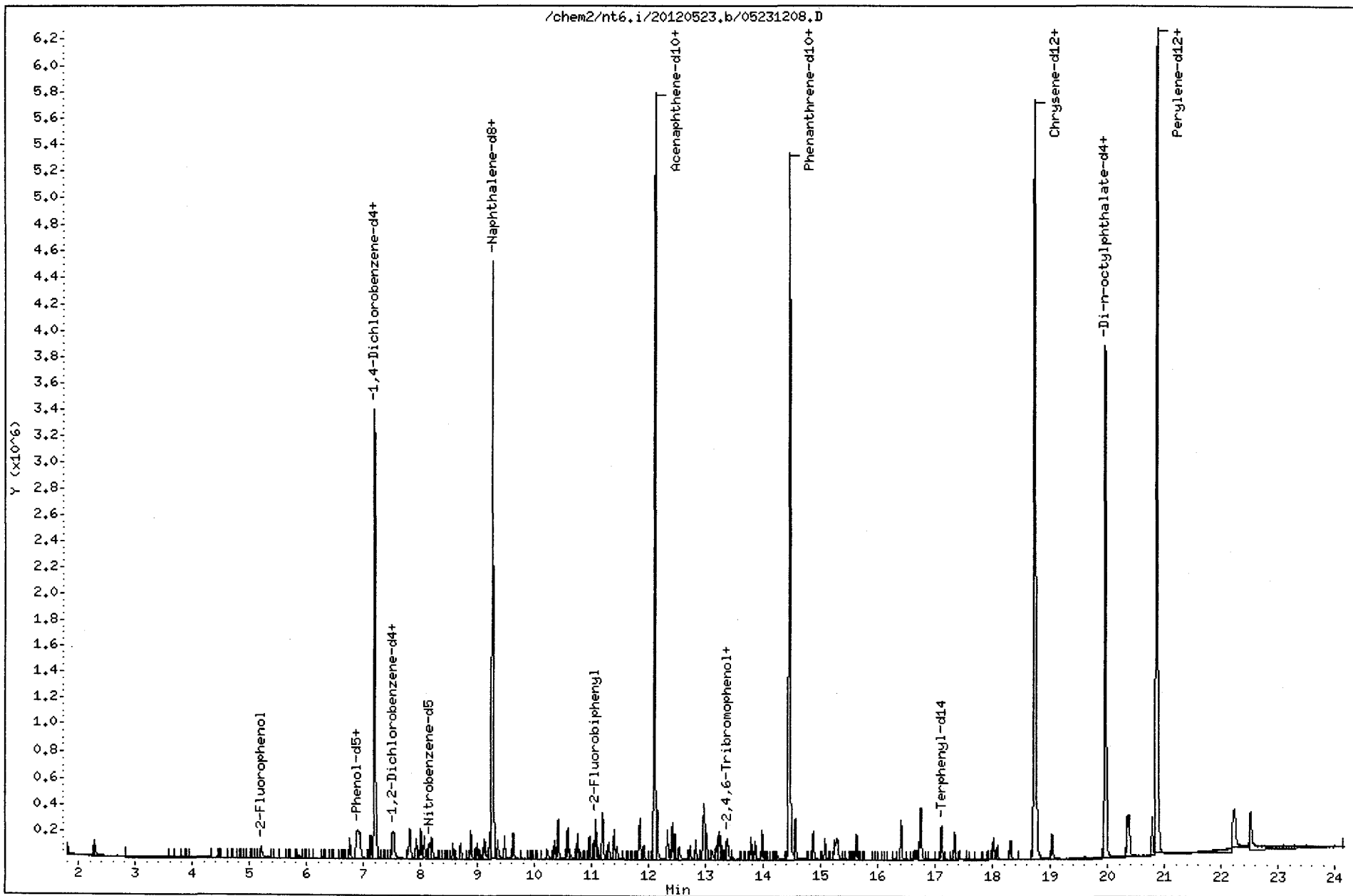
Instrument: nt6.i

Sample Info: IC10523

Operator: JZ

Column phase: ZB-5msi

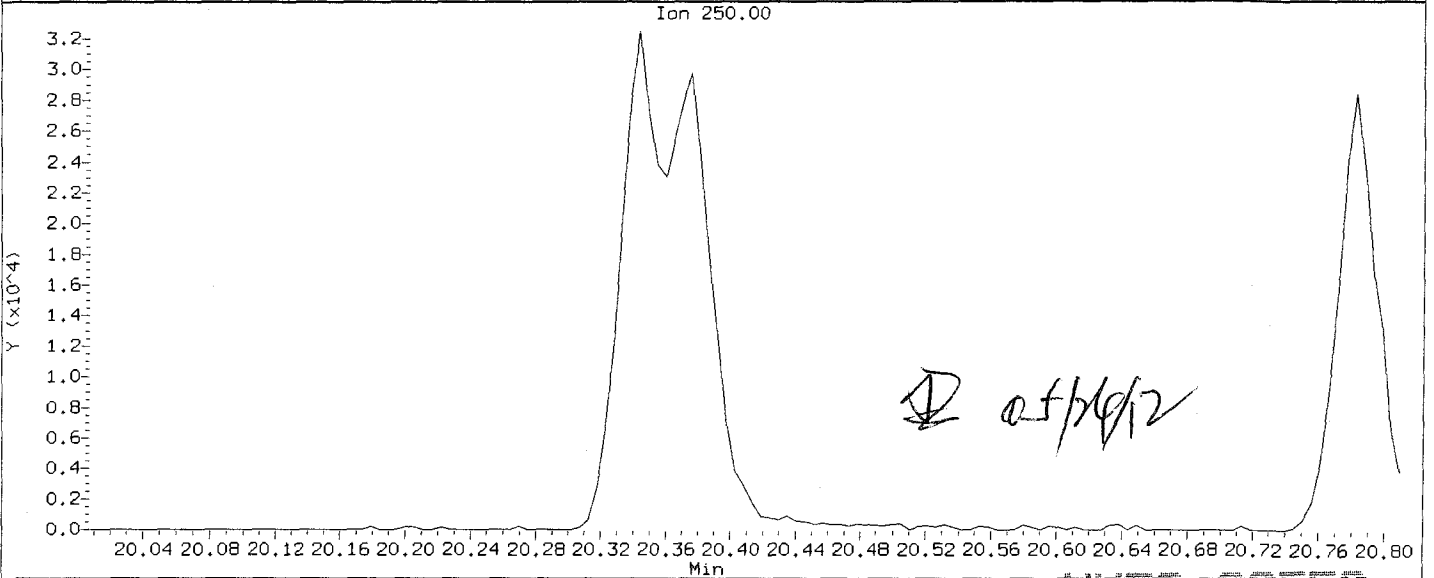
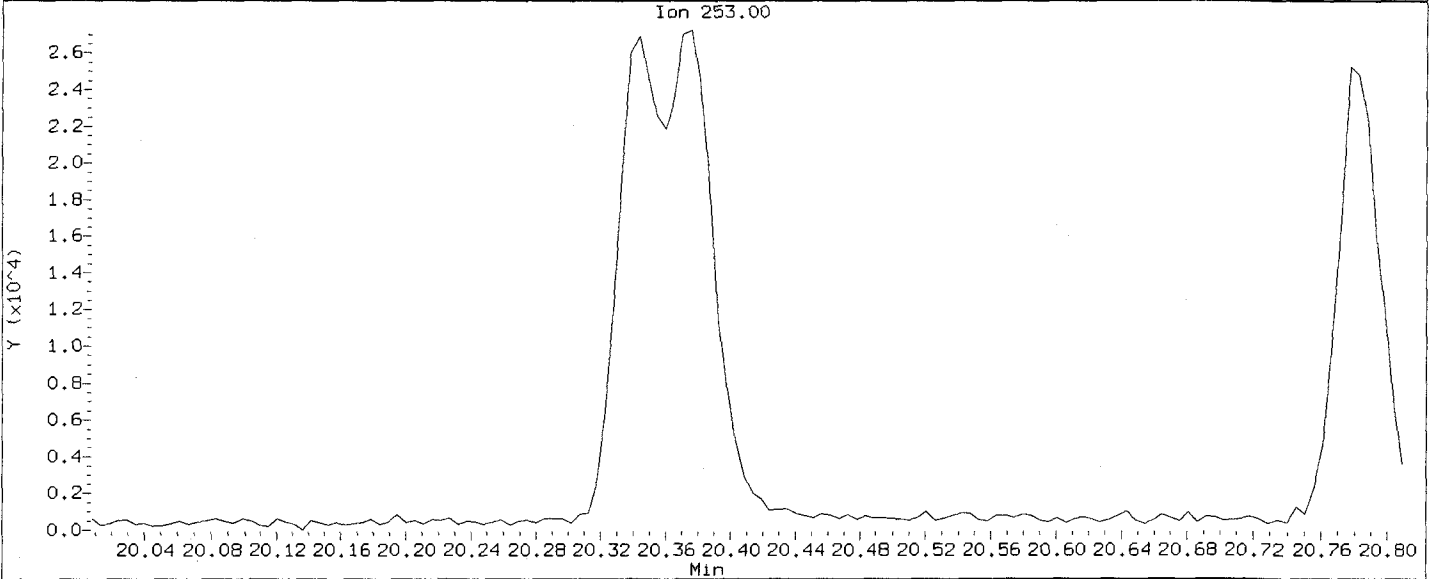
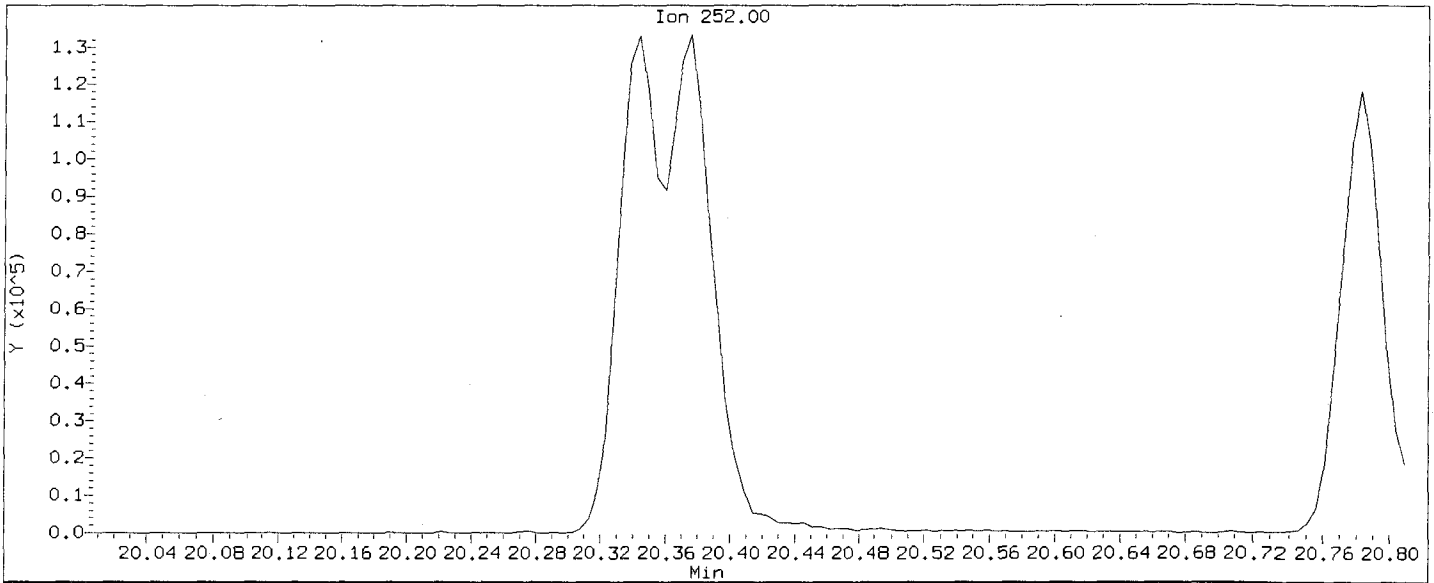
Column diameter: 0.32



0052:00549

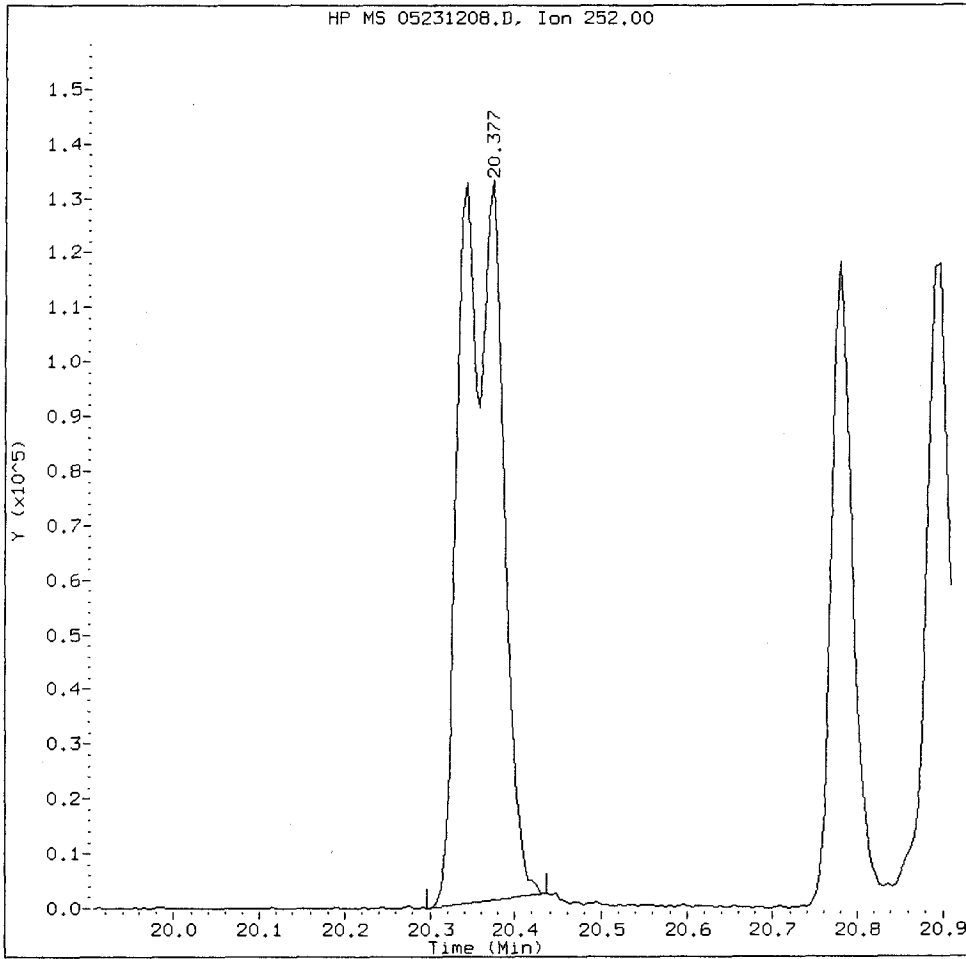
Data File: /chem2/nt6.1/20120523.b/05231208.D
Injection Date: 23-MAY-2012 18:46
Instrument: nt6.1
Client Sample ID: IC10523

Compound: Total Benzofluoranthenes
CAS Number:



IC10523, /chem2/nt6.i/20120523.b/05231208.D

Total Benzofluoranthenes Amount: 2.00 Area: 460318



MANUAL INTEGRATION for Total Benzofluoranthenes

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: ~~AD~~

Date: 05/24/12

CO-ELUTION SUMMARY FOR FILE - 05231208.D

Lab ID: IC10523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

UU52 : 00552

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231203.D
 Lab Smp Id: IC50523 Client Smp ID: IC50523
 Inj Date : 23-MAY-2012 14:41
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC50523,
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 14:41 Cal File: 05231203.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALS.sub
 Target Version: 3.50

Handwritten signature: JZ 05/24/12

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|-------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | == | 5.194 | 5.194 | (0.723) | 238869 | 5.00000 | 5.262 |
| \$ 2 Phenol-d5 | 99 | == | 6.867 | 6.877 | (0.955) | 292223 | 5.00000 | 5.213 |
| 3 Phenol | 94 | == | 6.883 | 6.894 | (0.958) | 337424 | 5.00000 | 4.571 |
| \$ 5 2-Chlorophenol-d4 | 132 | == | 6.904 | 6.909 | (0.961) | 287376 | 5.00000 | 5.226 |
| 4 Bis(2-Chloroethyl) ether | 93 | == | 6.888 | 6.899 | (0.958) | 232626 | 5.00000 | 4.961 |
| 6 2-Chlorophenol | 128 | == | 6.931 | 6.936 | (0.964) | 310282 | 5.00000 | 4.538 |
| 7 1,3-Dichlorobenzene | 146 | == | 7.123 | 7.129 | (0.991) | 328362 | 5.00000 | 4.977 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | == | 7.187 | 7.193 | (1.000) | 830650 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | == | 7.214 | 7.220 | (1.004) | 336824 | 5.00000 | 5.040 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | == | 7.492 | 7.497 | (1.042) | 207091 | 5.00000 | 4.953 |
| 12 1,2-Dichlorobenzene | 146 | == | 7.513 | 7.519 | (1.045) | 315199 | 5.00000 | 5.010 |
| 11 Benzyl alcohol | 108 | == | 7.529 | 7.545 | (1.048) | 184770 | 5.00000 | 5.996 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | == | 7.785 | 7.791 | (1.083) | 279063 | 5.00000 | 5.022 |
| 13 2-Methylphenol | 108 | == | 7.812 | 7.823 | (1.087) | 253000 | 5.00000 | 4.552 |
| 17 Hexachloroethane | 117 | == | 7.999 | 8.005 | (1.113) | 113754 | 5.00000 | 5.057 |
| 16 N-Nitroso-di-n-propylamine | 70 | == | 7.999 | 8.026 | (1.113) | 163593 | 5.00000 | 5.067 |
| 15 4-Methylphenol | 108 | == | 8.053 | 8.069 | (1.120) | 263850 | 5.00000 | 4.774 |
| \$ 18 Nitrobenzene-d5 | 82 | == | 8.143 | 8.159 | (0.880) | 244111 | 5.00000 | 5.197 |
| 19 Nitrobenzene | 77 | == | 8.170 | 8.187 | (0.883) | 251042 | 5.00000 | 5.109 |
| 20 Isophorone | 82 | == | 8.565 | 8.593 | (0.926) | 372160 | 5.00000 | 5.090 |
| 21 2-Nitrophenol | 139 | == | 8.699 | 8.710 | (0.940) | 165054 | 5.00000 | 4.668 |
| 22 2,4-Dimethylphenol | 107 | == | 8.875 | 8.892 | (0.959) | 251036 | 5.00000 | 4.716 |
| 23 Bis(2-Chloroethoxy)methane | 93 | == | 8.993 | 9.009 | (0.972) | 278092 | 5.00000 | 5.107 |
| 24 Benzoic acid | 105 | == | 9.084 | 9.303 | (0.982) | 180212 | 10.0000 | 10.00 (MH) |
| 25 2,4-Dichlorophenol | 162 | == | 9.110 | 9.121 | (0.984) | 246540 | 5.00000 | 4.922 |
| 26 1,2,4-Trichlorobenzene | 180 | == | 9.206 | 9.218 | (0.995) | 279004 | 5.00000 | 4.996 |
| * 27 Naphthalene-d8 | 136 | == | 9.255 | 9.266 | (1.000) | 2944206 | 20.0000 | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-------------------------------|-----------|--------|----------------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | |
| 28 Naphthalene | 128 | 9.281 | 9.298 (1.003) | 868861 | 5.00000 | 5.029 | |
| 29 4-Chloroaniline | 127 | 9.463 | 9.479 (1.022) | 380630 | 5.00000 | 5.228 | |
| 30 Hexachlorobutadiene | 225 | 9.623 | 9.629 (1.040) | 168330 | 5.00000 | 4.966 | |
| 31 4-Chloro-3-methylphenol | 107 | 10.339 | 10.345 (1.117) | 188478 | 5.00000 | 4.828 | |
| 32 2-Methylnaphthalene | 141 | 10.408 | 10.420 (1.125) | 521965 | 5.00000 | 5.097 | |
| 33 Hexachlorocyclopentadiene | 237 | 10.798 | 10.799 (0.892) | 101037 | 5.00000 | 5.000 | |
| 34 2,4,6-Trichlorophenol | 196 | 10.953 | 10.964 (0.905) | 173220 | 5.00000 | 4.786 | |
| 35 2,4,5-Trichlorophenol | 196 | 11.023 | 11.029 (0.911) | 173087 | 5.00000 | 5.326 | |
| \$ 36 2-Fluorobiphenyl | 172 | 11.071 | 11.076 (0.915) | 599561 | 5.00000 | 4.961 | |
| 37 2-Chloronaphthalene | 162 | 11.178 | 11.189 (0.924) | 509083 | 5.00000 | 5.064 | |
| 38 2-Nitroaniline | 65 | 11.439 | 11.461 (0.945) | 129295 | 5.00000 | 6.105 | |
| 39 Dimethylphthalate | 163 | 11.829 | 11.857 (0.977) | 544932 | 5.00000 | 5.130 | |
| 40 Acenaphthylene | 152 | 11.845 | 11.862 (0.979) | 876710 | 5.00000 | 5.128 | |
| 41 2,6-Dinitrotoluene | 165 | 11.910 | 11.937 (0.984) | 126200 | 5.00000 | 5.428 | |
| * 42 Acenaphthene-d10 | 164 | 12.102 | 12.108 (1.000) | 1841983 | 20.0000 | | |
| 43 3-Nitroaniline | 138 | 12.118 | 12.150 (1.001) | 160320 | 5.00000 | 5.699 | |
| 44 Acenaphthene | 153 | 12.150 | 12.166 (1.004) | 550179 | 5.00000 | 5.083 | |
| 45 2,4-Dinitrophenol | 184 | 12.294 | 12.316 (1.016) | 30032 | 10.0000 | 10.00 | |
| 46 Dibenzofuran | 168 | 12.412 | 12.434 (1.026) | 848828 | 5.00000 | 5.136 | |
| 47 4-Nitrophenol | 109 | 12.524 | 12.530 (1.035) | 28736 | 5.00000 | 5.000 | |
| 48 2,4-Dinitrotoluene | 165 | 12.535 | 12.556 (1.036) | 160822 | 5.00000 | 5.660 | |
| 50 Diethylphthalate | 149 | 12.978 | 13.000 (1.072) | 515579 | 5.00000 | 5.087 | |
| 49 Fluorene | 166 | 12.962 | 12.984 (1.071) | 648494 | 5.00000 | 5.208 | |
| 51 4-Chlorophenyl-phenylether | 204 | 13.015 | 13.027 (1.075) | 295925 | 5.00000 | 5.055 | |
| 52 4-Nitroaniline | 138 | 13.101 | 13.149 (1.083) | 143042 | 5.00000 | 5.720 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.176 | 13.214 (0.912) | 161884 | 10.0000 | 10.00 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 13.224 | 13.251 (0.915) | 394186 | 5.00000 | 5.176 | |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.389 | 13.405 (1.106) | 121035 | 5.00000 | 5.251 | |
| 56 4-Bromophenyl-phenylether | 248 | 13.785 | 13.790 (0.954) | 193209 | 5.00000 | 5.078 | |
| 57 Hexachlorobenzene | 284 | 13.982 | 13.993 (0.967) | 239701 | 5.00000 | 5.020 | |
| 58 Pentachlorophenol | 266 | 14.303 | 14.319 (0.990) | 34405 | 5.00000 | 5.000 (M) | |
| * 59 Phenanthrene-d10 | 188 | 14.452 | 14.464 (1.000) | 2904487 | 20.0000 | | |
| 60 Phenanthrene | 178 | 14.484 | 14.506 (1.002) | 885877 | 5.00000 | 5.119 | |
| 61 Anthracene | 178 | 14.559 | 14.581 (1.007) | 901129 | 5.00000 | 5.187 | |
| 62 Carbazole | 167 | 14.869 | 14.886 (1.029) | 677020 | 5.00000 | 5.138 | |
| 63 Di-n-butylphthalate | 149 | 15.622 | 15.633 (1.081) | 789203 | 5.00000 | 5.134 | |
| 64 Fluoranthene | 202 | 16.402 | 16.419 (1.135) | 929333 | 5.00000 | 5.065 | |
| 65 Pyrene | 202 | 16.750 | 16.766 (0.894) | 978152 | 5.00000 | 5.114 | |
| \$ 66 Terphenyl-d14 | 244 | 17.102 | 17.113 (0.913) | 597749 | 5.00000 | 5.168 | |
| 67 Butylbenzylphthalate | 149 | 18.010 | 18.027 (0.962) | 324113 | 5.00000 | 5.295 | |
| 68 Benzo(a)anthracene | 228 | 18.705 | 18.721 (0.999) | 913018 | 5.00000 | 5.101 | |
| * 69 Chrysene-d12 | 240 | 18.726 | 18.743 (1.000) | 3176606 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.747 | 18.759 (1.001) | 360680 | 5.00000 | 5.302 | |
| 71 Chrysene | 228 | 18.763 | 18.791 (1.002) | 885250 | 5.00000 | 5.120 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.031 | 19.036 (0.953) | 438725 | 5.00000 | 5.004 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.960 | 19.971 (1.000) | 2976173 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | 19.965 | 19.982 (1.000) | 784439 | 5.00000 | 5.014 | |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 74 Benzo(b)fluoranthene | 252 | 20.339 | 20.377 | (0.975) | 1085679 | 5.00000 | 5.297 |
| 75 Benzo(k)fluoranthene | 252 | 20.371 | 20.377 | (0.976) | 1014130 | 5.00000 | 5.186 |
| 187 Total Benzofluoranthenes | 252 | 20.339 | 20.409 | (0.975) | 1953479 | 10.0000 | 10.37 (M) |
| 76 Benzo(a)pyrene | 252 | 20.783 | 20.810 | (0.996) | 903560 | 5.00000 | 5.180 |
| * 77 Perylene-d12 | 264 | 20.863 | 20.879 | (1.000) | 3450025 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.209 | 22.242 | (1.065) | 1307169 | 5.00000 | 5.310 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.236 | 22.274 | (1.066) | 1095188 | 5.00000 | 5.363 |
| 80 Benzo(g,h,i)perylene | 276 | 22.514 | 22.562 | (1.079) | 1126133 | 5.00000 | 5.328 |
| 90 N-Nitrosodimethylamine | 74 | 2.272 | 2.305 | (0.316) | 143181 | 5.00000 | 4.985 |
| 103 Pyridine | 79 | 2.256 | 2.267 | (0.314) | 238066 | 5.00000 | 5.397 |
| 91 Aniline | 93 | 6.754 | 6.760 | (0.940) | 420699 | 5.00000 | 4.933 |
| 105 1-methylnaphthalene | 141 | 10.579 | 10.585 | (1.143) | 392376 | 5.00000 | 5.008 |
| 93 Benzidine | 184 | 16.696 | 16.702 | (0.892) | 237549 | 5.00000 | 5.000 (M) |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.256 | 13.278 | (1.095) | 460259 | 5.00000 | 5.140 |
| 143 1,4-Dioxane | 88 | 1.802 | 1.819 | (0.251) | 90333 | 5.00000 | 5.209 |
| \$ 137 d8-1,4-Dioxane | 96 | 1.770 | 1.781 | (0.246) | 94230 | 5.00000 | 4.906 |
| 144 alpha-Terpineol | 59 | 9.345 | 9.362 | (1.010) | 150325 | 5.00000 | 5.074 |
| 177 p-Benzoquinone | 82 | 5.836 | 5.836 | (0.631) | 32189 | 5.00000 | 5.000 |
| 98 Retene | 219 | 17.337 | 17.348 | (0.926) | 317055 | 5.00000 | 5.257 |
| 99 Perylene | 252 | 20.895 | 20.928 | (1.002) | 915281 | 5.00000 | 5.033 |
| 133 Butylatedhydroxytoluene | 205 | 12.326 | 12.337 | (1.019) | 373108 | 5.00000 | 4.835 |
| 115 Tributyl Phosphate | 99 | 13.368 | 13.411 | (0.925) | 476707 | 5.00000 | 5.260 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.072 | 15.105 | (1.043) | 359996 | 5.00000 | 5.208 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.733 | 16.745 | (0.894) | 99939 | 5.00000 | 5.360 |
| 118 Triphenyl Phosphate | 326 | 18.315 | 18.326 | (0.978) | 188276 | 5.00000 | 5.168 |
| 123 Acetophenone | 105 | 7.919 | 7.935 | (1.102) | 332114 | 5.00000 | 5.085 |
| 168 Pentachlorobenzene | 250 | 12.454 | 12.471 | (1.029) | 249199 | 5.00000 | 5.065 |
| 113 Diphenyl Oxide | 170 | 11.391 | 11.403 | (0.941) | 371227 | 5.00000 | 5.186 |
| 112 Biphenyl | 154 | 11.199 | 11.205 | (0.925) | 590240 | 5.00000 | 5.132 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.722 | 12.733 | (1.051) | 112806 | 5.00000 | 5.220 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.750 | 10.756 | (0.888) | 259895 | 5.00000 | 5.047 |
| 110 Tetrachloroguaiacol | 247 | 14.431 | 14.453 | (0.999) | 190450 | 10.0000 | 11.78 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.823 | 12.840 | (0.887) | 104893 | 5.00000 | 5.652 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.941 | 12.952 | (1.801) | 125029 | 5.00000 | 5.555 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.854 | 13.871 | (1.145) | 109142 | 5.00000 | 5.499 |
| 184 3,4-Dichloroguaiacol | 192 | 11.295 | 11.306 | (1.572) | 112821 | 5.00000 | 5.554 |
| 107 4,5-Dichloroguaiacol | 192 | 12.091 | 12.108 | (0.999) | 288534 | 10.0000 | 10.93 |
| 182 4,6-Dichloroguaiacol | 192 | 12.091 | 12.108 | (1.682) | 288139 | 10.0000 | 10.79 |
| 185 4-Chloroguaiacol | 115 | 10.221 | 10.233 | (1.422) | 53321 | 2.50000 | 2.694 |
| 186 Carbaryl | 144 | 15.291 | 15.324 | (1.058) | 306739 | 5.00000 | 4.736 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.270 | 15.297 | (1.057) | 152417 | 5.00000 | 5.575 |
| 106 Guaiacol | 124 | 8.202 | 8.213 | (1.141) | 215012 | 5.00000 | 5.126 |

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231203.D
 Lab Smp Id: IC50523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC50523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 830650 | -13.81 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 2944206 | -14.18 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1841983 | -18.47 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 2904487 | -15.73 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3176606 | -19.81 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 2976173 | -20.82 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3450025 | -16.95 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | -0.05 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.25 | -0.04 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.03 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.02 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.05 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.02 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.86 | -0.04 |

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.

Date : 23-MAY-2012 14:41

Client ID: IC50523

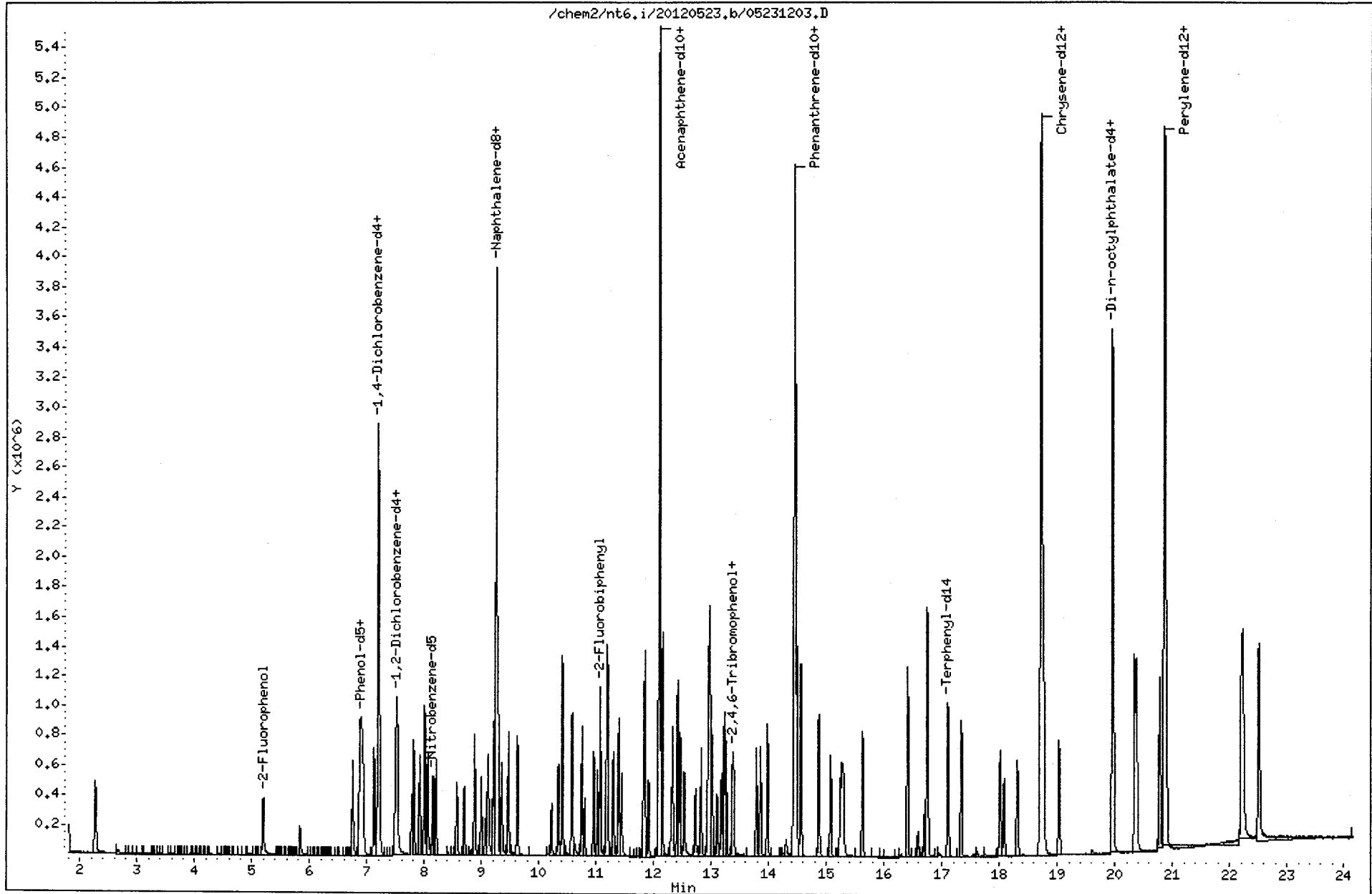
Sample Info: IC50523,

Instrument: nt6.i

Operator: JZ

Column phase: ZB-5msi

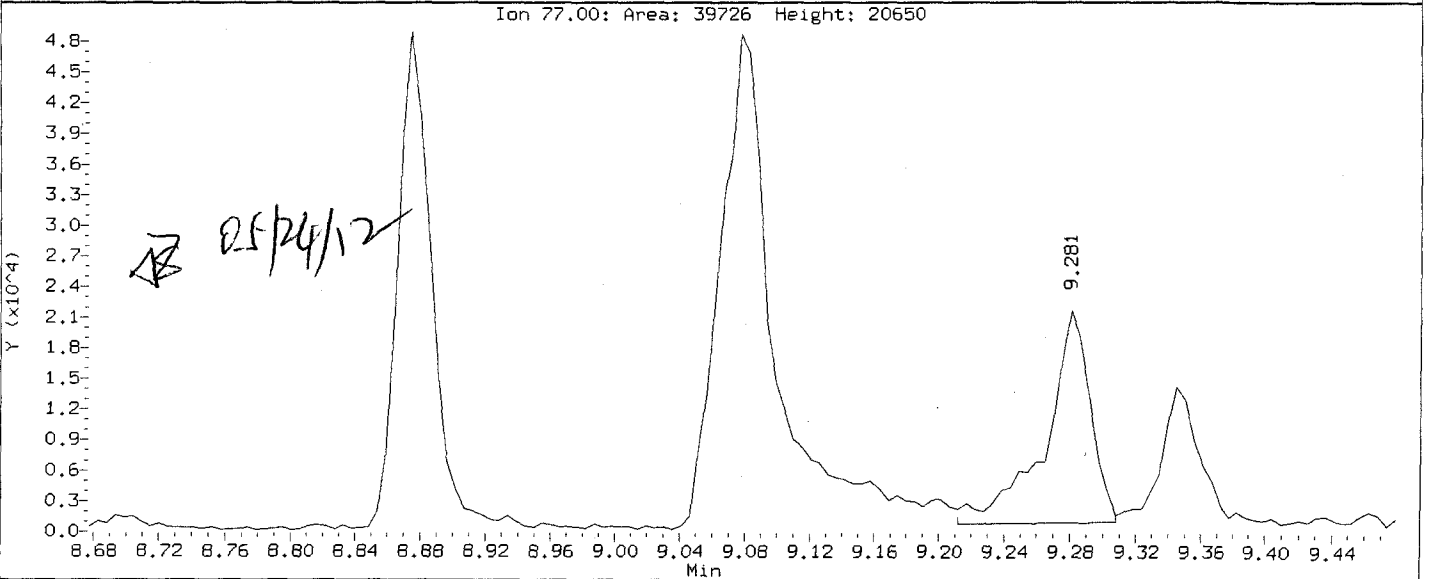
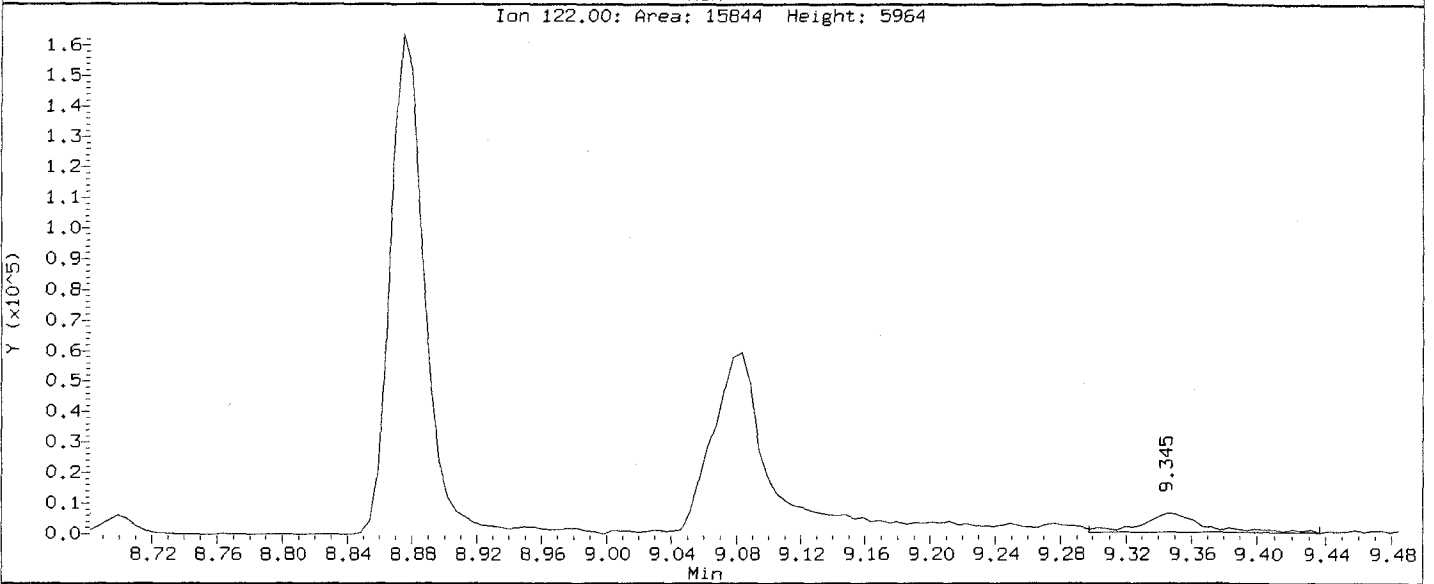
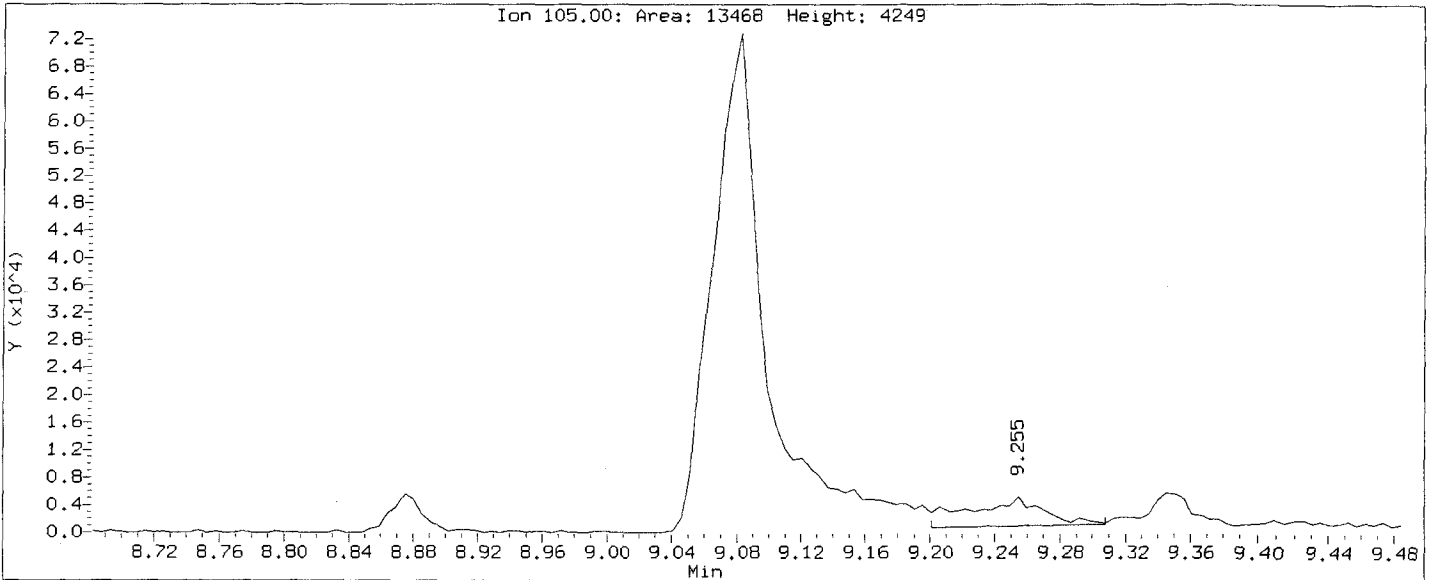
Column diameter: 0.32



05231203.D

Data File: /chem2/nt6.i/20120523.b/05231203.D
Injection Date: 23-MAY-2012 14:41
Instrument: nt6.i
Client Sample ID: IC50523

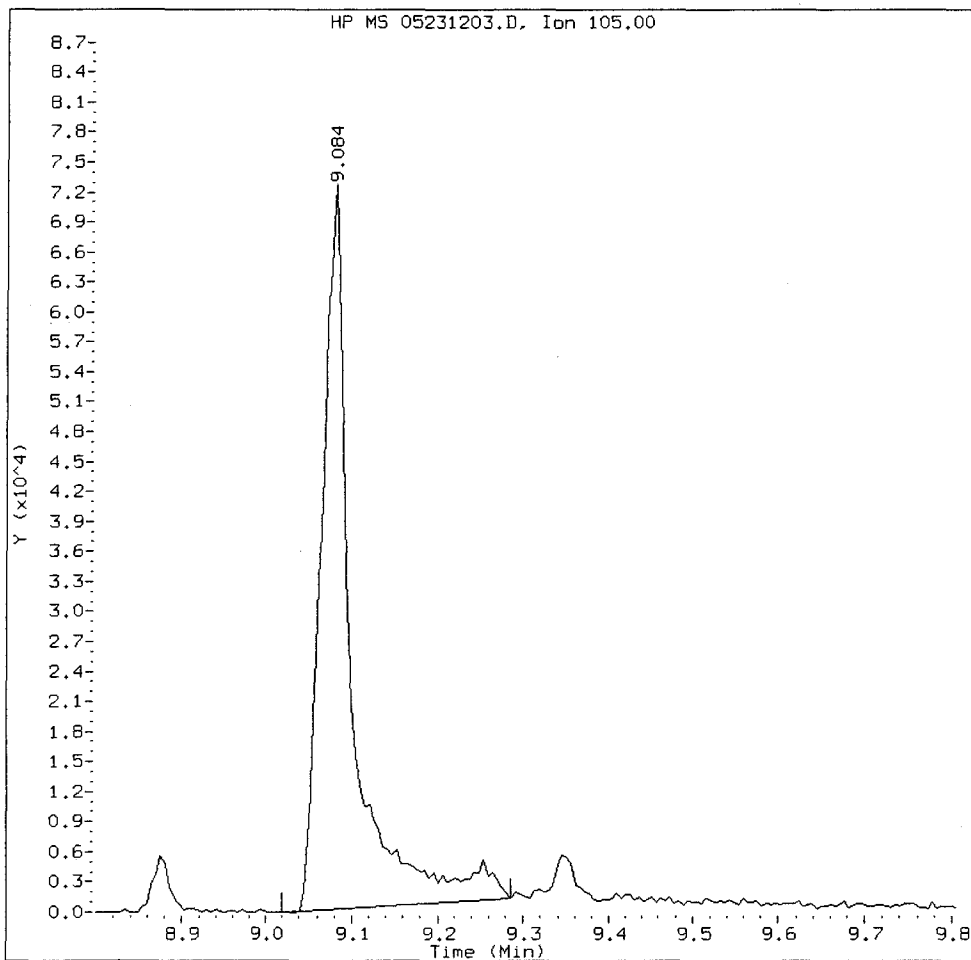
Compound: Benzoic acid
CAS Number: 65-85-0



0052:00558

IC50523, /chem2/nt6.i/20120523.b/05231203.D

Benzoic acid Amount: 10.00 Area: 180212



MANUAL INTEGRATION for Benzoic acid

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

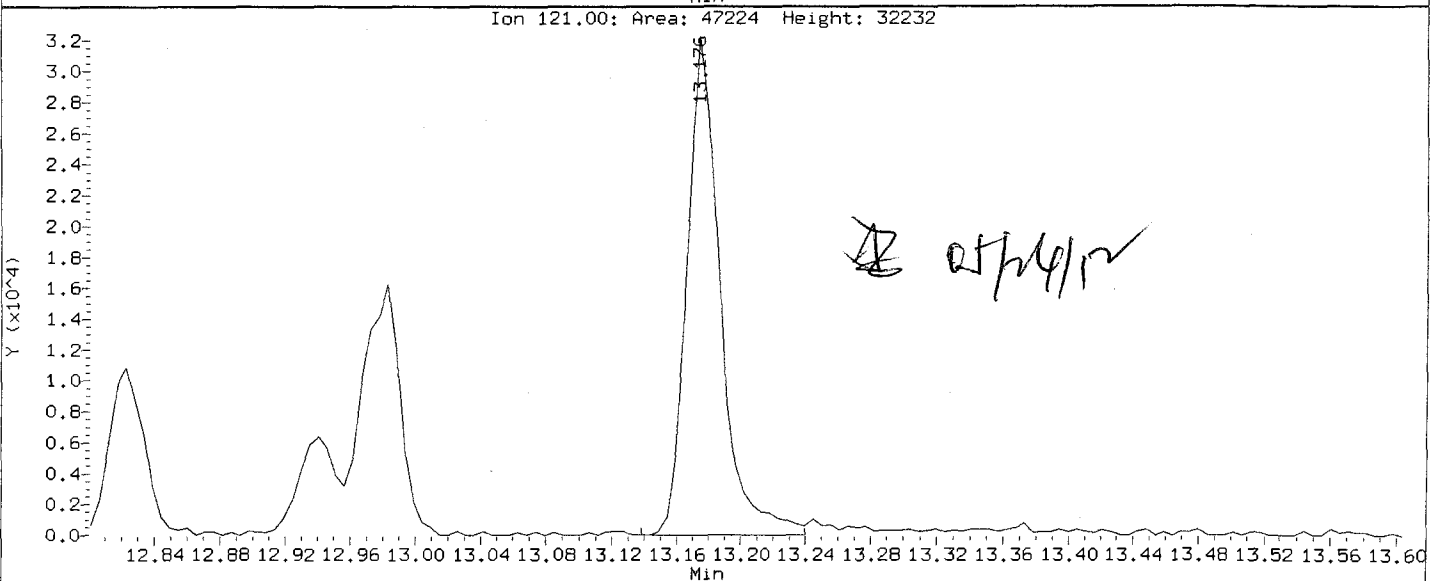
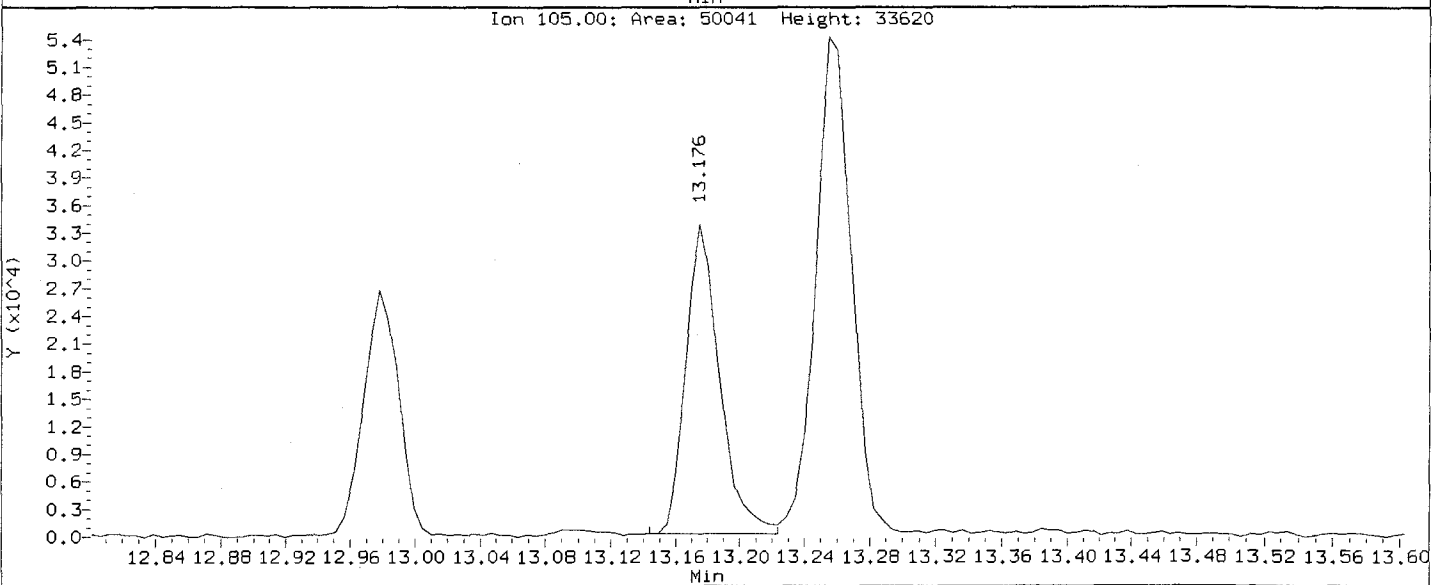
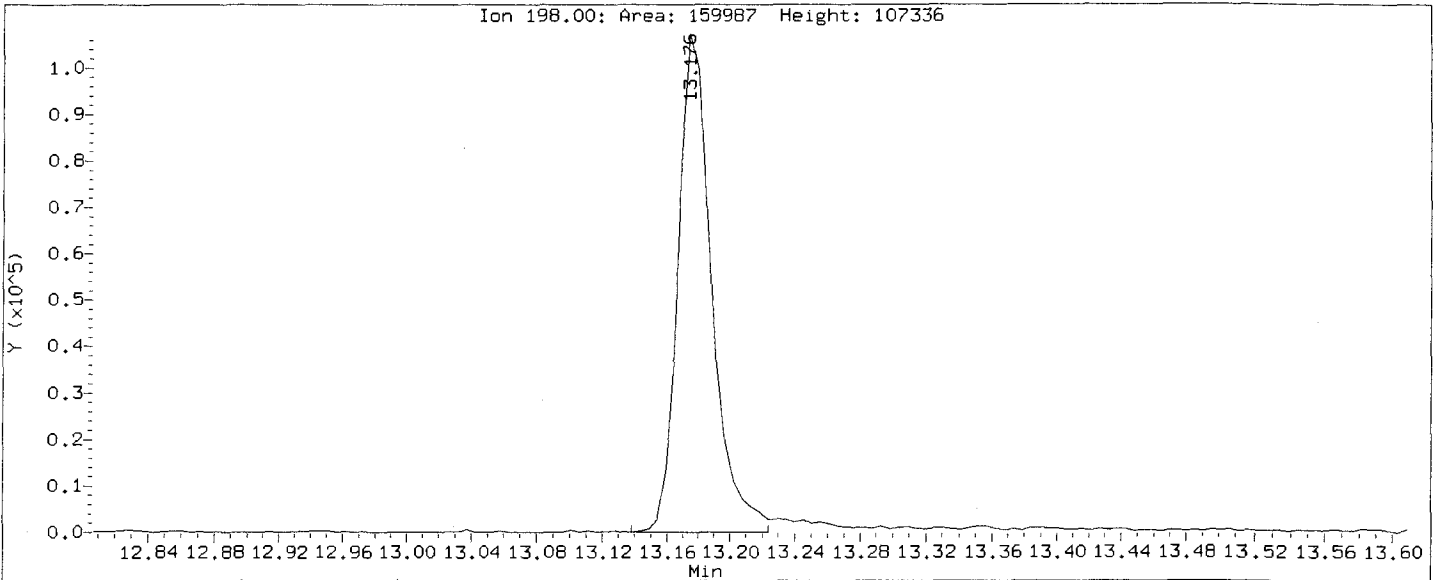
5. Other _____

Analyst: AB

Date: 05/24/12

Data File: /chem2/nt6.i/20120523.b/05231203.D
Injection Date: 23-MAY-2012 14:41
Instrument: nt6.i
Client Sample ID: IC50523

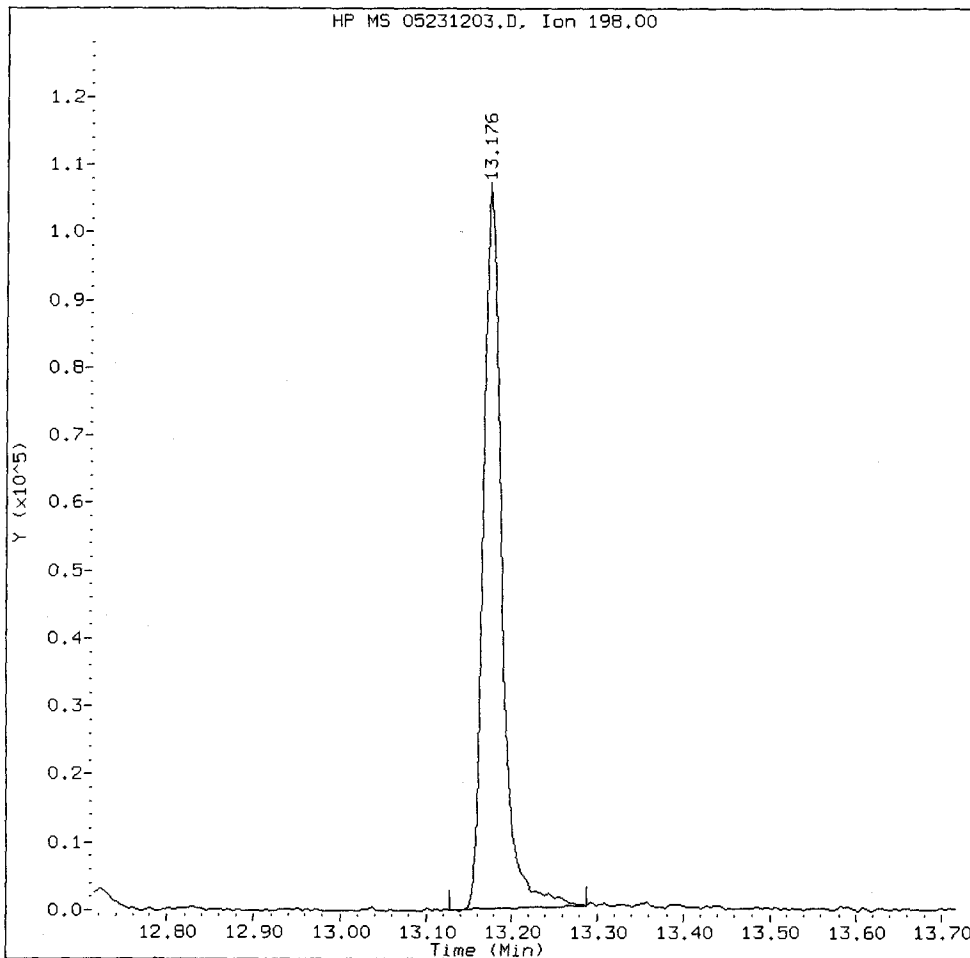
Compound: 4,6-Dinitro-2-methylphenol
CAS Number: 534-52-1



0052: 00560

IC50523, /chem2/nt6.i/20120523.b/05231203.D

4,6-Dinitro-2-methylphenol Amount: 10.00 Area: 161884



MANUAL INTEGRATION for 4,6-Dinitro-2-methylphenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

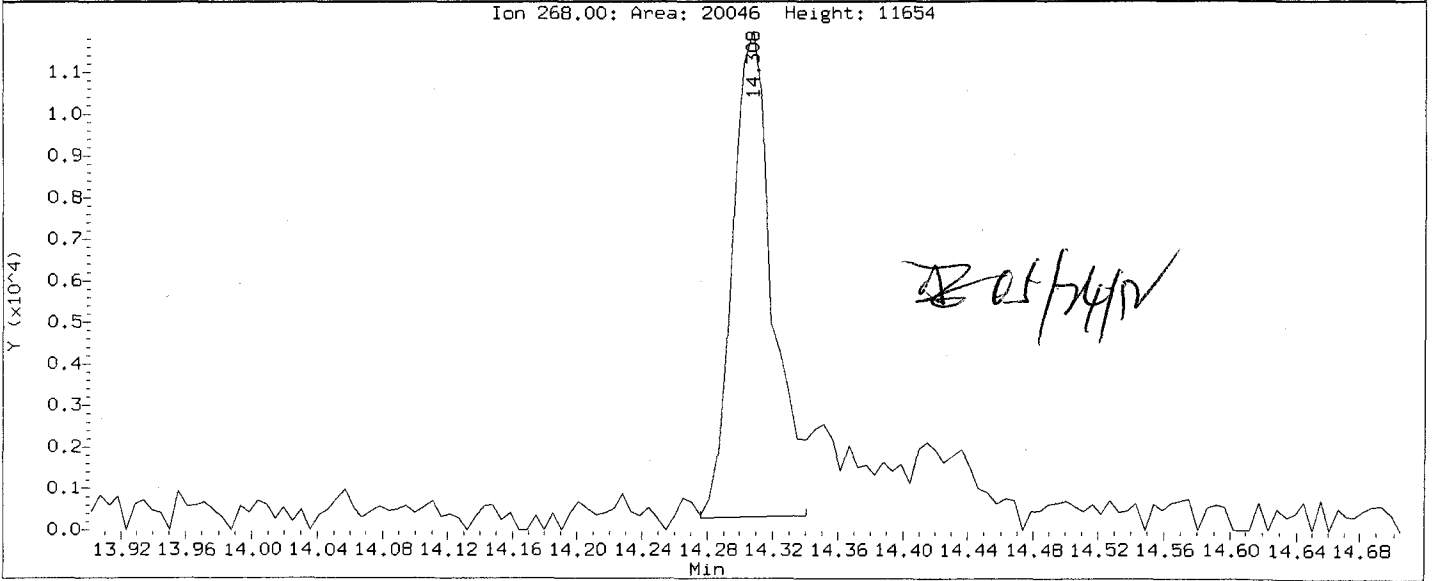
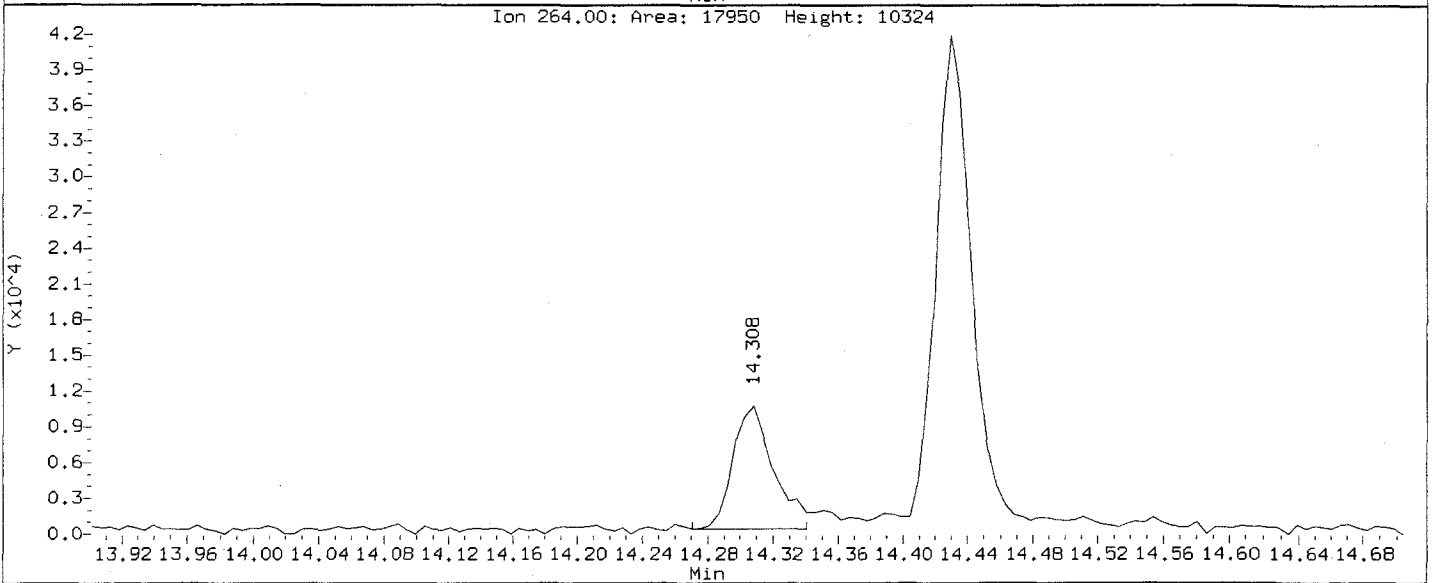
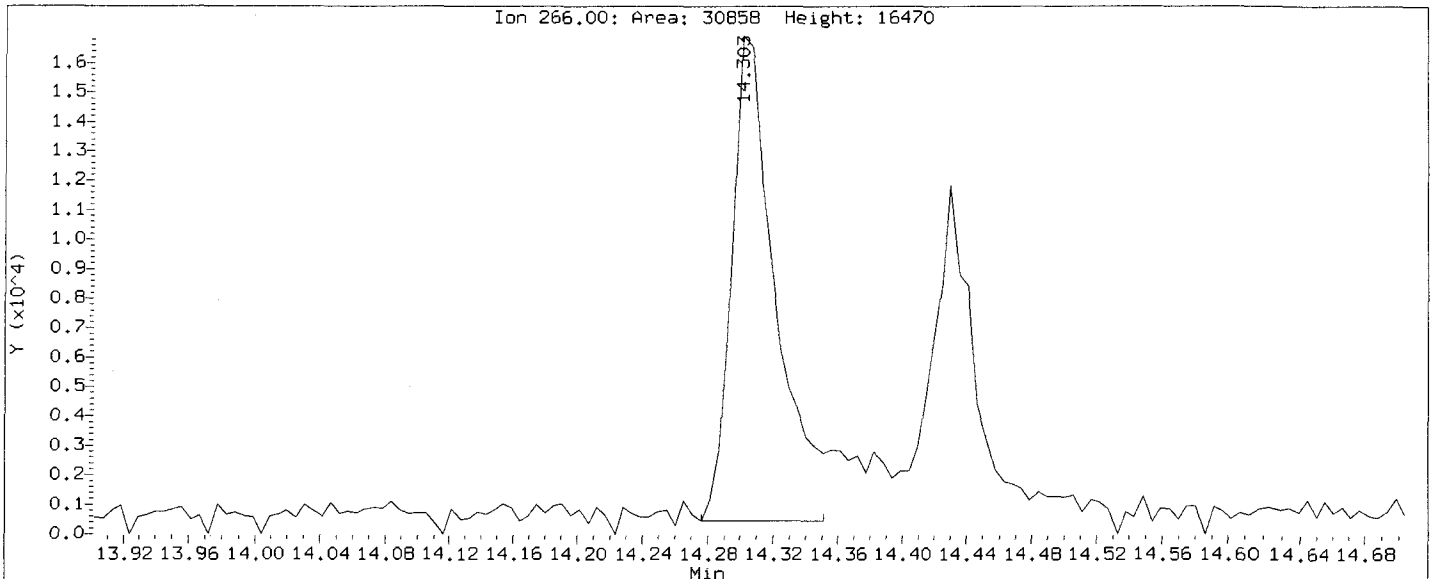
5. Other _____

Analyst: AZ

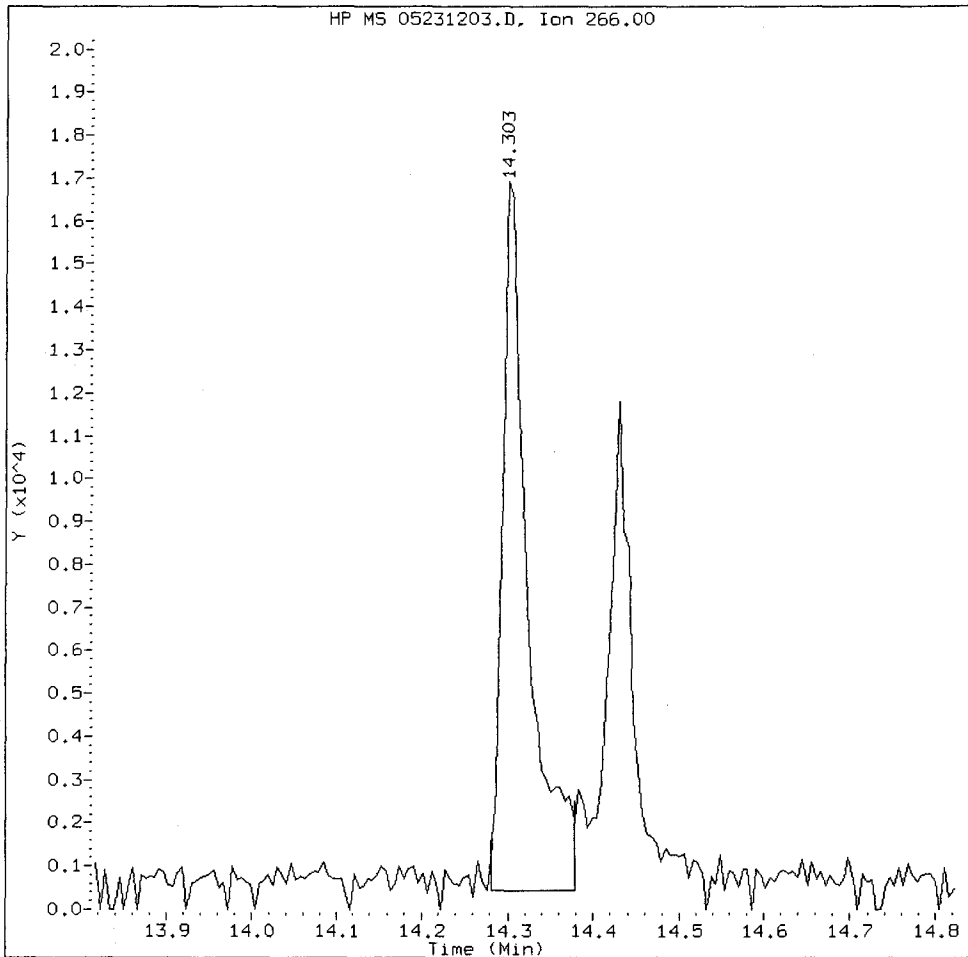
Date: 05/23/12

Data File: /chem2/nt6.i/20120523.b/05231203.D
Injection Date: 23-MAY-2012 14:41
Instrument: nt6.i
Client Sample ID: IC50523

Compound: Pentachlorophenol
CAS Number: 87-86-5



Pentachlorophenol Amount: 5.00 Area: 34405



MANUAL INTEGRATION for Pentachlorophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

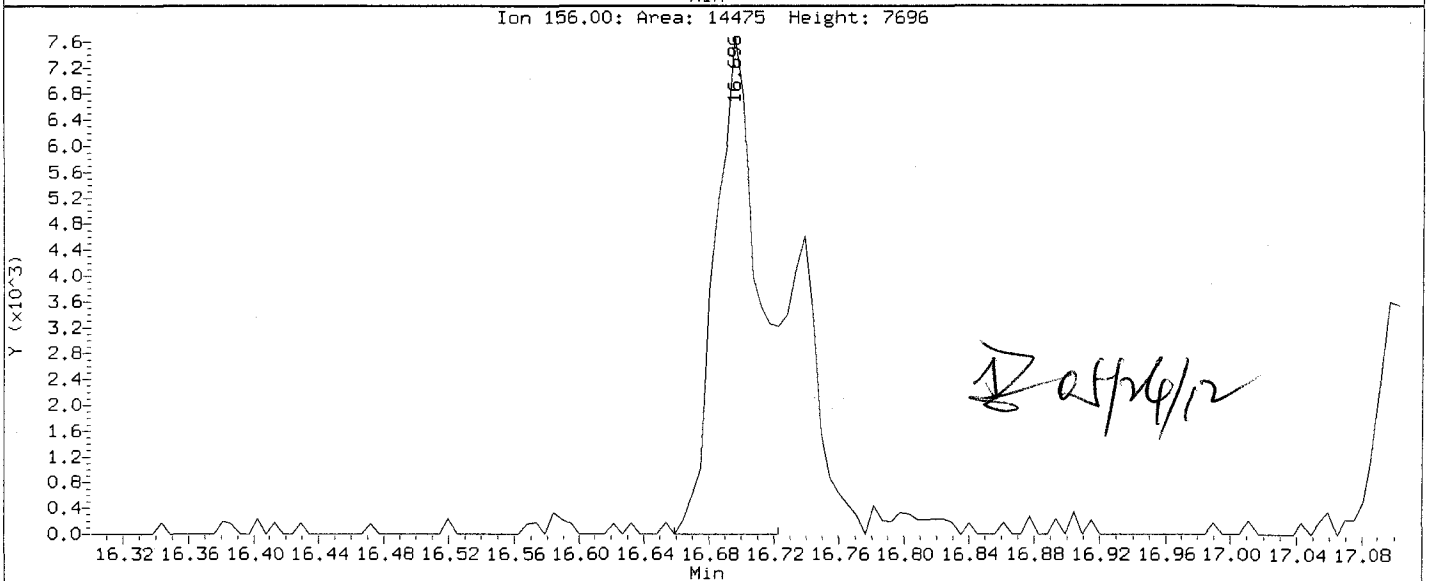
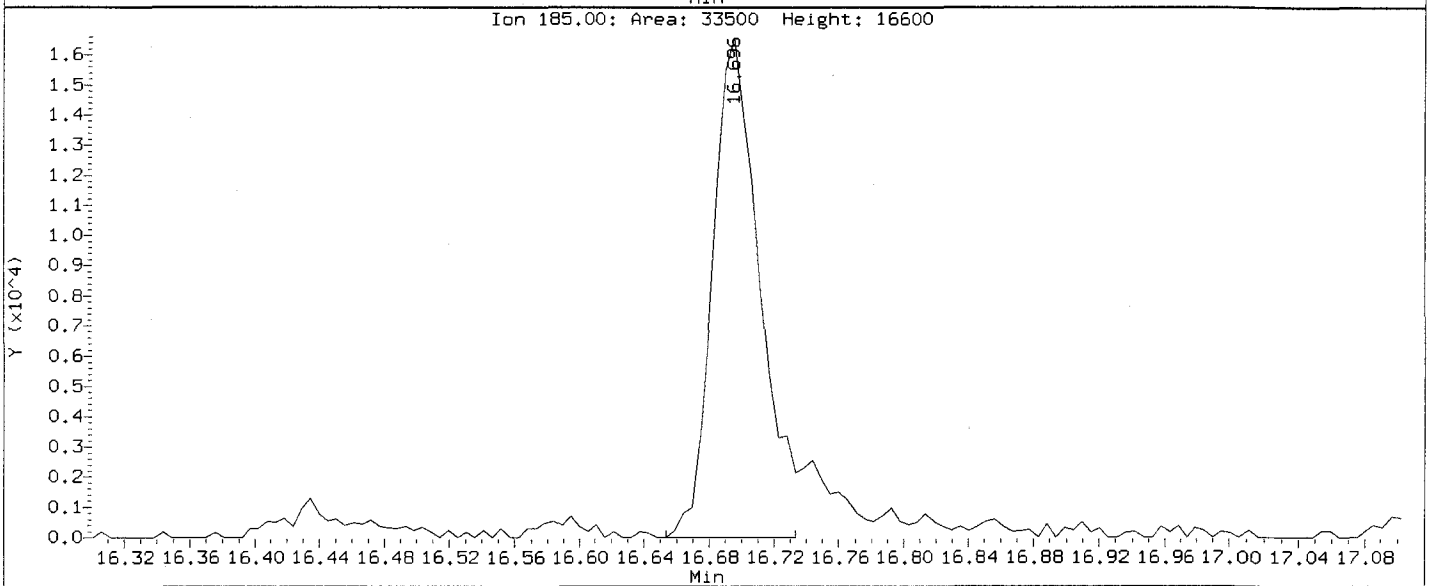
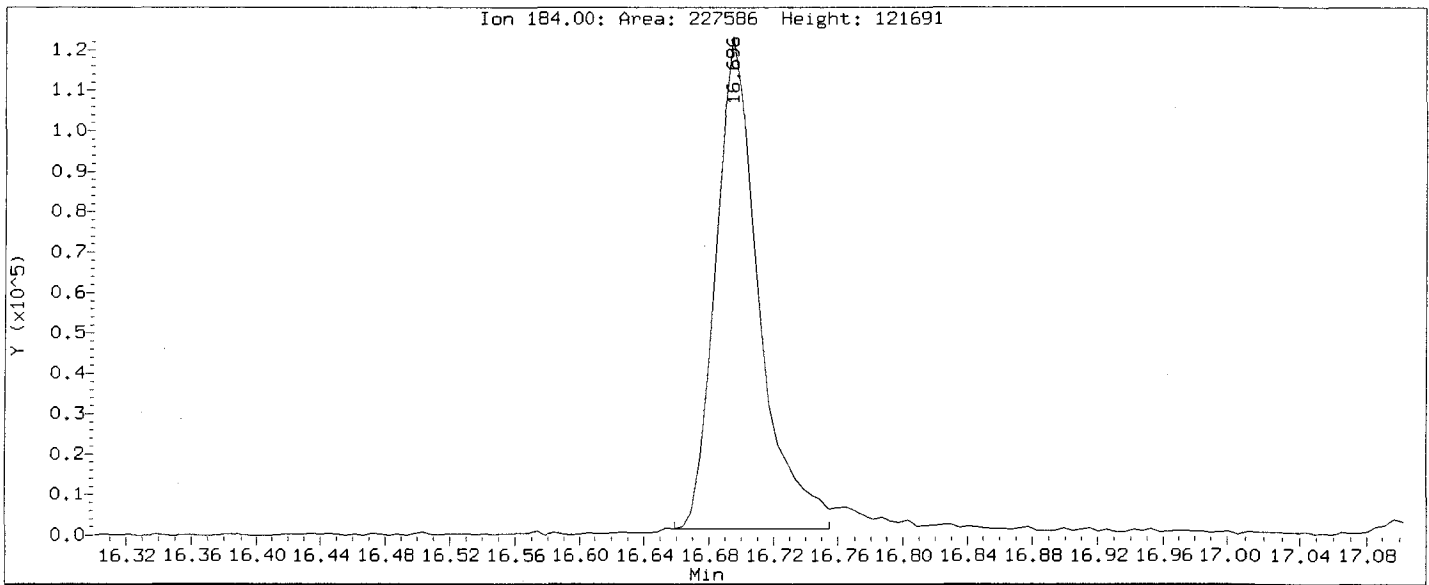
5. Other _____

Analyst: DR

Date: 05/24/12

Data File: /chem2/nt6.1/20120523,b/05231203.D
Injection Date: 23-MAY-2012 14:41
Instrument: nt6.1
Client Sample ID: IC50523

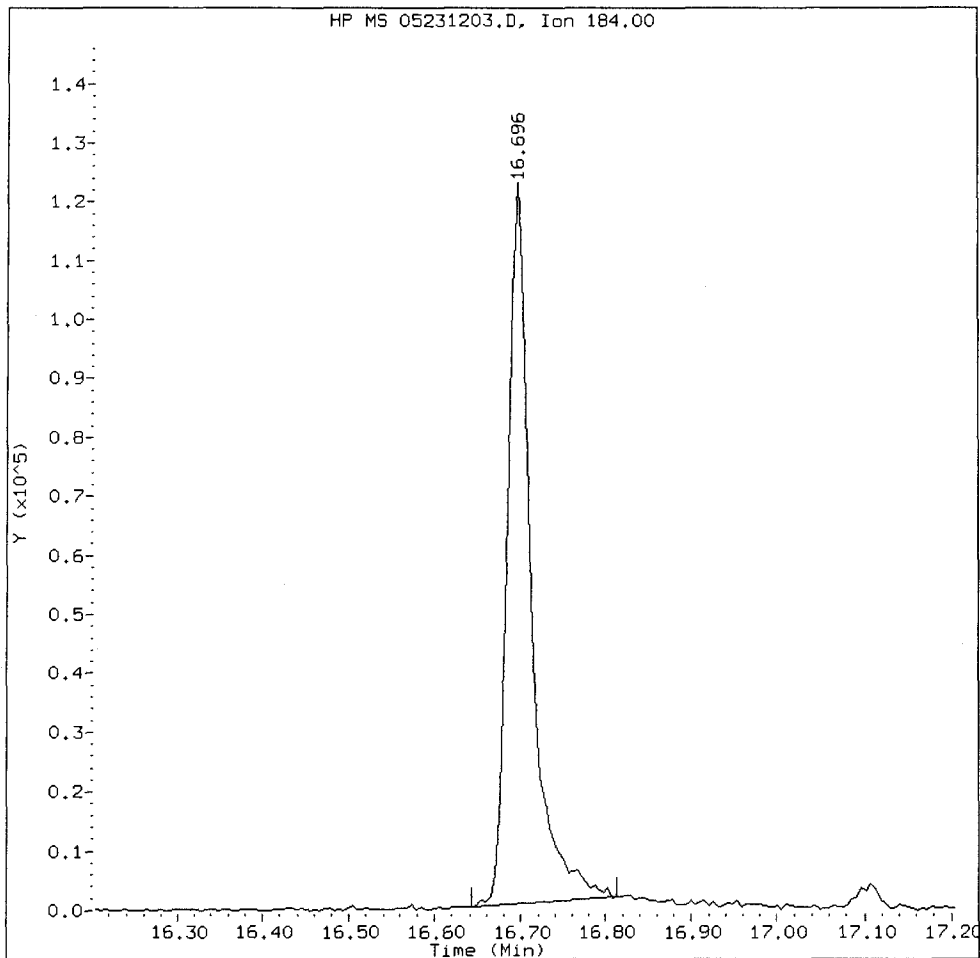
Compound: Benzidine
CAS Number:



0052:00564

IC50523, /chem2/nt6.i/20120523.b/05231203.D

Benzidine Amount: 5.00 Area: 237549



MANUAL INTEGRATION for Benzidine

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

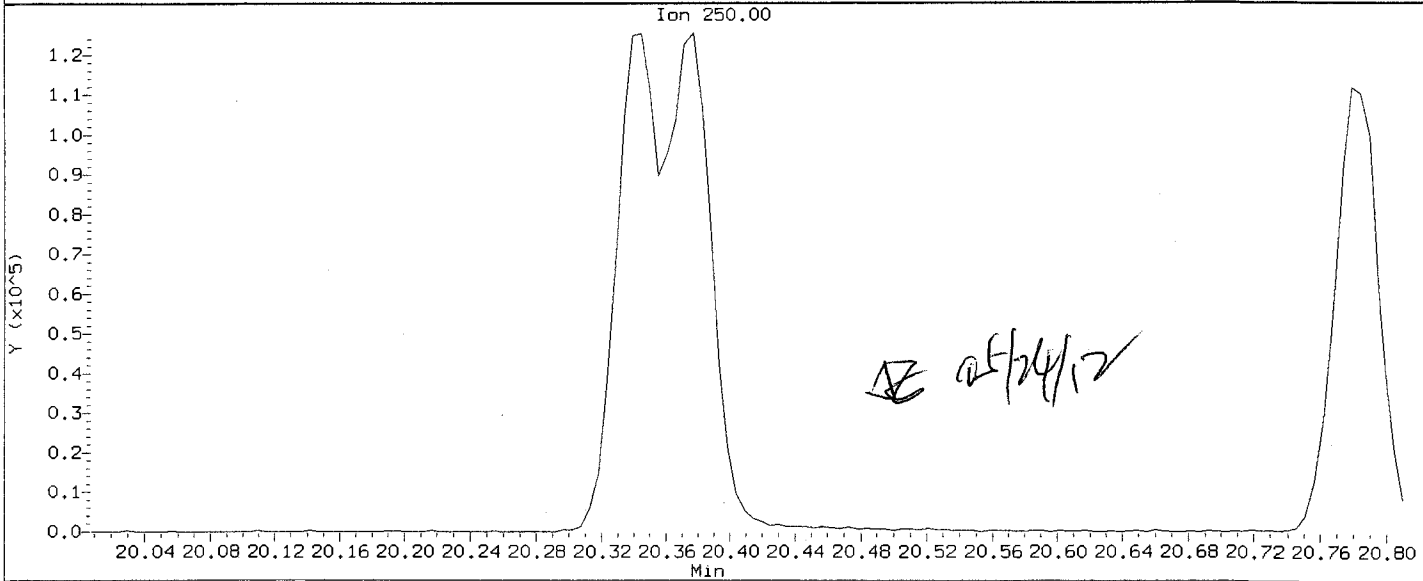
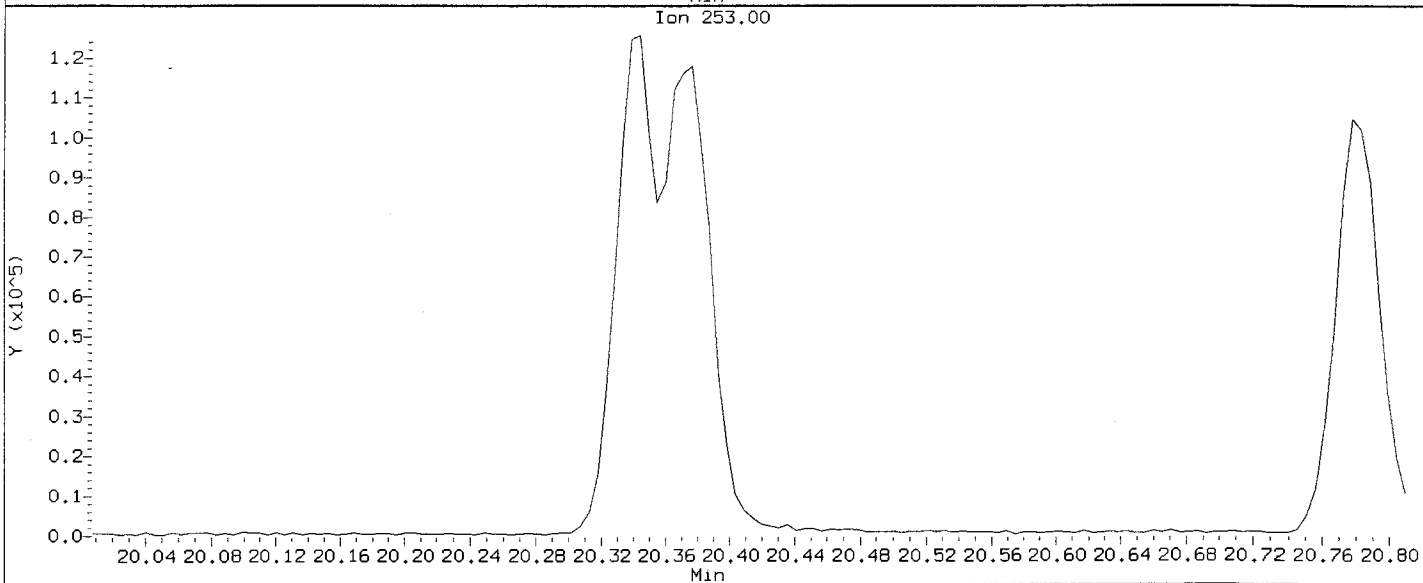
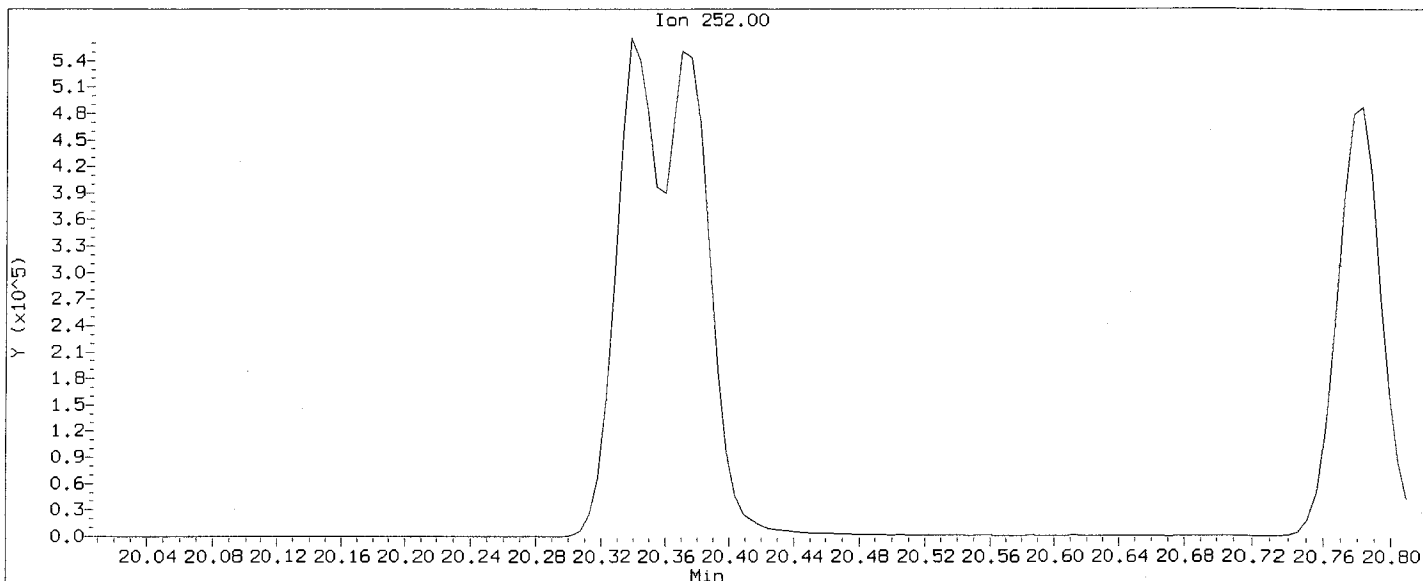
5. Other _____

Analyst: AD

Date: 01/24/12

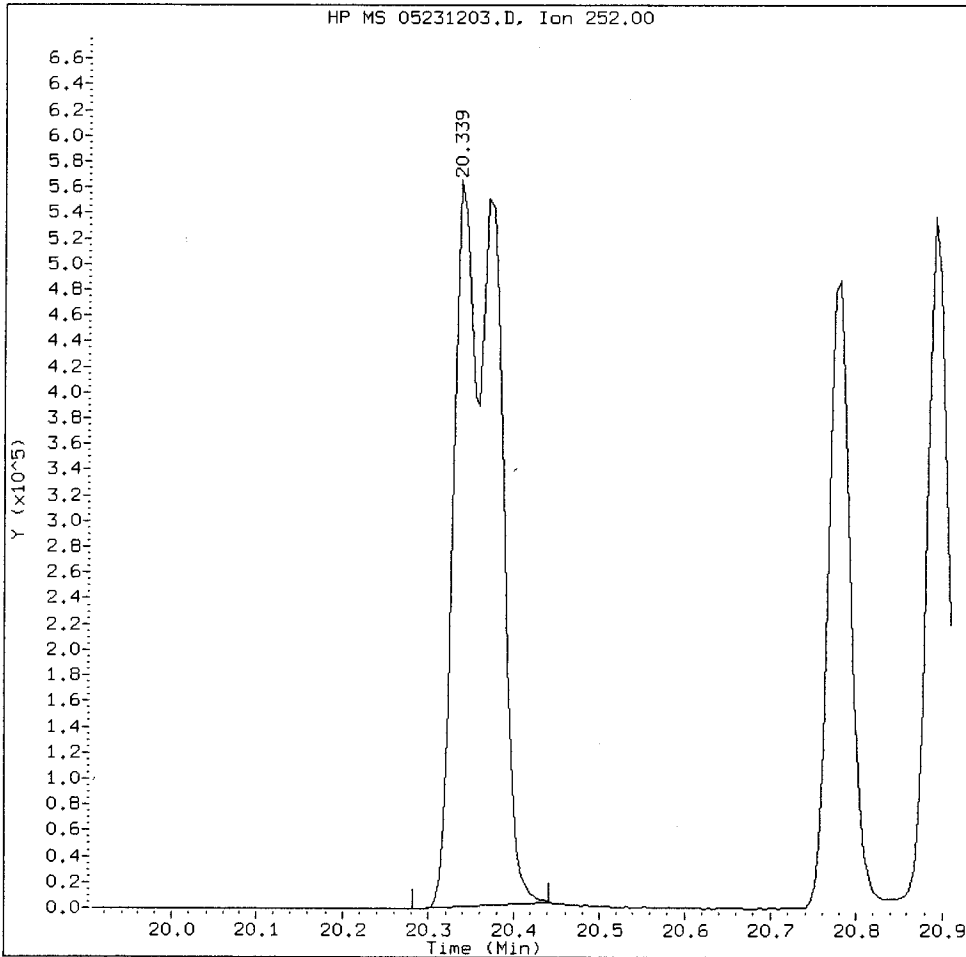
Data File: /chem2/nt6.i/20120523A.b/05231203.D
Injection Date: 23-MAY-2012 14:41
Instrument: nt6.i
Client Sample ID: IC50523

Compound: Total Benzofluoranthenes
CAS Number:



UU52 : 00566

Total Benzofluoranthenes Amount: 10.37 Area: 1953479



MANUAL INTEGRATION for Total Benzofluoranthenes

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: AR

Date: 2/24/12

CO-ELUTION SUMMARY FOR FILE - 05231203.D

Lab ID: IC50523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231204.D
Lab Smp Id: IC100523 Client Smp ID: IC100523
Inj Date : 23-MAY-2012 15:15
Operator : JZ Inst ID: nt6.i
Smp Info : IC100523,
Misc Info : 12-
Comment : 1ul Injection
Method : /chem2/nt6.i/20120523.b/SW846052312.m
Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
Cal Date : 23-MAY-2012 15:15 Cal File: 05231204.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

B 05/24/12
AMOUNTS

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|-------|---------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ----- | ---- | == | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | 5.190 | 5.194 | (0.721) | 518915 | 10.0000 | 10.68 |
| \$ 2 Phenol-d5 | 99 | 6.862 | 6.877 | (0.954) | 605991 | 10.0000 | 10.29 |
| 3 Phenol | 94 | 6.883 | 6.894 | (0.957) | 679909 | 10.0000 | 9.240 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.904 | 6.909 | (0.960) | 589682 | 10.0000 | 10.24 |
| 4 Bis(2-Chloroethyl)ether | 93 | 6.894 | 6.899 | (0.958) | 502292 | 10.0000 | 10.23 |
| 6 2-Chlorophenol | 128 | 6.931 | 6.936 | (0.964) | 615752 | 10.0000 | 9.096 |
| 7 1,3-Dichlorobenzene | 146 | 7.123 | 7.129 | (0.990) | 681545 | 10.0000 | 9.989 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.193 | 7.193 | (1.000) | 859474 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.214 | 7.220 | (1.003) | 676158 | 10.0000 | 9.852 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.492 | 7.497 | (1.042) | 421461 | 10.0000 | 9.827 |
| 12 1,2-Dichlorobenzene | 146 | 7.513 | 7.519 | (1.045) | 645408 | 10.0000 | 9.942 |
| 11 Benzyl alcohol | 108 | 7.524 | 7.545 | (1.046) | 377017 | 10.0000 | 11.15 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.786 | 7.791 | (1.082) | 560085 | 10.0000 | 9.826 |
| 13 2-Methylphenol | 108 | 7.813 | 7.823 | (1.086) | 512953 | 10.0000 | 9.252 |
| 17 Hexachloroethane | 117 | 8.000 | 8.005 | (1.112) | 236040 | 10.0000 | 10.09 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.000 | 8.026 | (1.112) | 334729 | 10.0000 | 10.01 |
| 15 4-Methylphenol | 108 | 8.053 | 8.069 | (1.120) | 539215 | 10.0000 | 9.612 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.149 | 8.159 | (0.880) | 504443 | 10.0000 | 10.23 |
| 19 Nitrobenzene | 77 | 8.176 | 8.187 | (0.883) | 511298 | 10.0000 | 10.02 |
| 20 Isophorone | 82 | 8.566 | 8.593 | (0.926) | 754071 | 10.0000 | 9.957 |
| 21 2-Nitrophenol | 139 | 8.699 | 8.710 | (0.940) | 331572 | 10.0000 | 9.336 |
| 22 2,4-Dimethylphenol | 107 | 8.876 | 8.892 | (0.959) | 510689 | 10.0000 | 9.482 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 8.999 | 9.009 | (0.972) | 567748 | 10.0000 | 10.03 |
| 24 Benzoic acid | 105 | 9.116 | 9.303 | (0.985) | 446422 | 20.0000 | 21.76 |
| 25 2,4-Dichlorophenol | 162 | 9.111 | 9.121 | (0.984) | 512453 | 10.0000 | 9.905 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.207 | 9.218 | (0.995) | 569462 | 10.0000 | 9.882 |
| * 27 Naphthalene-d8 | 136 | 9.255 | 9.266 | (1.000) | 3055832 | 20.0000 | |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-----------|------|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | | 128 | 9.287 | 9.298 | (1.003) | 1736633 | 10.0000 | 9.788 |
| 29 4-Chloroaniline | | 127 | 9.463 | 9.479 | (1.022) | 753338 | 10.0000 | 9.980 |
| 30 Hexachlorobutadiene | | 225 | 9.624 | 9.629 | (1.040) | 344214 | 10.0000 | 9.855 |
| 31 4-Chloro-3-methylphenol | | 107 | 10.339 | 10.345 | (1.117) | 412736 | 10.0000 | 10.12 |
| 32 2-Methylnaphthalene | | 141 | 10.414 | 10.420 | (1.125) | 1018671 | 10.0000 | 9.719 |
| 33 Hexachlorocyclopentadiene | | 237 | 10.799 | 10.799 | (0.892) | 271883 | 10.0000 | 11.27 |
| 34 2,4,6-Trichlorophenol | | 196 | 10.954 | 10.964 | (0.905) | 361832 | 10.0000 | 9.722 |
| 35 2,4,5-Trichlorophenol | | 196 | 11.023 | 11.029 | (0.911) | 357845 | 10.0000 | 10.37 |
| \$ 36 2-Fluorobiphenyl | | 172 | 11.071 | 11.076 | (0.915) | 1220560 | 10.0000 | 9.788 |
| 37 2-Chloronaphthalene | | 162 | 11.183 | 11.189 | (0.924) | 1052994 | 10.0000 | 10.03 |
| 38 2-Nitroaniline | | 65 | 11.445 | 11.461 | (0.946) | 269432 | 10.0000 | 11.37 |
| 39 Dimethylphthalate | | 163 | 11.830 | 11.857 | (0.977) | 1096347 | 10.0000 | 9.932 |
| 40 Acenaphthylene | | 152 | 11.851 | 11.862 | (0.979) | 1775062 | 10.0000 | 9.972 |
| 41 2,6-Dinitrotoluene | | 165 | 11.915 | 11.937 | (0.985) | 264053 | 10.0000 | 10.58 |
| * 42 Acenaphthene-d10 | | 164 | 12.102 | 12.108 | (1.000) | 1920679 | 20.0000 | |
| 43 3-Nitroaniline | | 138 | 12.118 | 12.150 | (1.001) | 327726 | 10.0000 | 10.75 |
| 44 Acenaphthene | | 153 | 12.150 | 12.166 | (1.004) | 1116465 | 10.0000 | 9.928 |
| 45 2,4-Dinitrophenol | | 184 | 12.289 | 12.316 | (1.015) | 153493 | 20.0000 | 28.41 |
| 46 Dibenzofuran | | 168 | 12.418 | 12.434 | (1.026) | 1651438 | 10.0000 | 9.718 |
| 47 4-Nitrophenol | | 109 | 12.519 | 12.530 | (1.034) | 74902 | 10.0000 | 11.11 |
| 48 2,4-Dinitrotoluene | | 165 | 12.535 | 12.556 | (1.036) | 340937 | 10.0000 | 10.96 |
| 50 Diethylphthalate | | 149 | 12.984 | 13.000 | (1.073) | 1041091 | 10.0000 | 9.900 |
| 49 Fluorene | | 166 | 12.962 | 12.984 | (1.071) | 1315035 | 10.0000 | 10.09 |
| 51 4-Chlorophenyl-phenylether | | 204 | 13.016 | 13.027 | (1.075) | 607582 | 10.0000 | 9.969 |
| 52 4-Nitroaniline | | 138 | 13.107 | 13.149 | (1.083) | 276359 | 10.0000 | 10.39 |
| 53 4,6-Dinitro-2-methylphenol | | 198 | 13.181 | 13.214 | (0.912) | 393806 | 20.0000 | 21.59 |
| 54 N-Nitrosodiphenylamine | | 169 | 13.229 | 13.251 | (0.915) | 827825 | 10.0000 | 10.31 |
| \$ 55 2,4,6-Tribromophenol | | 330 | 13.395 | 13.405 | (1.107) | 257884 | 10.0000 | 10.48 |
| 56 4-Bromophenyl-phenylether | | 248 | 13.785 | 13.790 | (0.954) | 393391 | 10.0000 | 9.978 |
| 57 Hexachlorobenzene | | 284 | 13.983 | 13.993 | (0.967) | 493841 | 10.0000 | 9.981 |
| 58 Pentachlorophenol | | 266 | 14.303 | 14.319 | (0.990) | 100161 | 10.0000 | 11.68 (M) |
| * 59 Phenanthrene-d10 | | 188 | 14.453 | 14.464 | (1.000) | 3012715 | 20.0000 | |
| 60 Phenanthrene | | 178 | 14.485 | 14.506 | (1.002) | 1775716 | 10.0000 | 9.928 |
| 61 Anthracene | | 178 | 14.560 | 14.581 | (1.007) | 1819707 | 10.0000 | 10.07 |
| 62 Carbazole | | 167 | 14.870 | 14.886 | (1.029) | 1342911 | 10.0000 | 9.883 |
| 63 Di-n-butylphthalate | | 149 | 15.623 | 15.633 | (1.081) | 1632786 | 10.0000 | 10.16 |
| 64 Fluoranthene | | 202 | 16.408 | 16.419 | (1.135) | 1898951 | 10.0000 | 9.986 |
| 65 Pyrene | | 202 | 16.750 | 16.766 | (0.894) | 1973115 | 10.0000 | 9.986 |
| \$ 66 Terphenyl-d14 | | 244 | 17.103 | 17.113 | (0.913) | 1231106 | 10.0000 | 10.20 |
| 67 Butylbenzylphthalate | | 149 | 18.016 | 18.027 | (0.962) | 676501 | 10.0000 | 10.45 |
| 68 Benzo (a) anthracene | | 228 | 18.705 | 18.721 | (0.999) | 1840502 | 10.0000 | 9.964 |
| * 69 Chrysene-d12 | | 240 | 18.727 | 18.743 | (1.000) | 3283977 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | | 252 | 18.748 | 18.759 | (1.001) | 686007 | 10.0000 | 9.835 |
| 71 Chrysene | | 228 | 18.764 | 18.791 | (1.002) | 1778051 | 10.0000 | 9.965 |
| 72 bis(2-Ethylhexyl)phthalate | | 149 | 19.031 | 19.036 | (0.953) | 908243 | 10.0000 | 9.991 |
| * 134 Di-n-octylphthalate-d4 | | 153 | 19.961 | 19.971 | (1.000) | 3087098 | 20.0000 | |
| 73 Di-n-octylphthalate | | 149 | 19.971 | 19.982 | (1.001) | 1597660 | 10.0000 | 9.896 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 74 Benzo(b)fluoranthene | 252 | 20.340 | 20.377 | (0.975) | 2089028 | 10.0000 | 10.05 |
| 75 Benzo(k)fluoranthene | 252 | 20.377 | 20.377 | (0.976) | 2086289 | 10.0000 | 10.36 |
| 187 Total Benzofluoranthenes | 252 | 20.377 | 20.409 | (0.976) | 3940835 | 20.0000 | 20.44 |
| 76 Benzo(a)pyrene | 252 | 20.783 | 20.810 | (0.996) | 1819152 | 10.0000 | 10.20 |
| * 77 Perylene-d12 | 264 | 20.869 | 20.879 | (1.000) | 3490837 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.210 | 22.242 | (1.064) | 2633850 | 10.0000 | 10.38 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.236 | 22.274 | (1.066) | 2201491 | 10.0000 | 10.43 |
| 80 Benzo(g,h,i)perylene | 276 | 22.514 | 22.562 | (1.079) | 2251972 | 10.0000 | 10.35 |
| 90 N-Nitrosodimethylamine | 74 | 2.273 | 2.305 | (0.316) | 295463 | 10.0000 | 9.961 |
| 103 Pyridine | 79 | 2.251 | 2.267 | (0.313) | 526462 | 10.0000 | 10.97 |
| 91 Aniline | 93 | 6.755 | 6.760 | (0.939) | 806868 | 10.0000 | 9.413 |
| 105 1-methylnaphthalene | 141 | 10.580 | 10.585 | (1.143) | 759545 | 10.0000 | 9.550 |
| 93 Benzidine | 184 | 16.697 | 16.702 | (0.892) | 381998 | 10.0000 | 8.750 (M) |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.262 | 13.278 | (1.096) | 947447 | 10.0000 | 10.10 |
| 143 1,4-Dioxane | 88 | 1.803 | 1.819 | (0.251) | 181890 | 10.0000 | 10.09 |
| § 137 d8-1,4-Dioxane | 96 | 1.771 | 1.781 | (0.246) | 192132 | 10.0000 | 9.776 |
| 144 alpha-Terpineol | 59 | 9.346 | 9.362 | (1.010) | 296230 | 10.0000 | 9.753 |
| 177 p-Benzoquinone | 82 | 5.831 | 5.836 | (0.630) | 77236 | 10.0000 | 10.72 |
| 98 Retene | 219 | 17.338 | 17.348 | (0.926) | 623659 | 10.0000 | 10.00 |
| 99 Perylene | 252 | 20.895 | 20.928 | (1.001) | 1716344 | 10.0000 | 9.541 |
| 133 Butylatedhydroxytoluene | 205 | 12.327 | 12.337 | (1.019) | 749829 | 10.0000 | 9.535 |
| 115 Tributyl Phosphate | 99 | 13.374 | 13.411 | (0.925) | 942634 | 10.0000 | 10.02 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.078 | 15.105 | (1.043) | 732243 | 10.0000 | 10.14 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.734 | 16.745 | (0.894) | 198609 | 10.0000 | 10.20 |
| 118 Triphenyl Phosphate | 326 | 18.315 | 18.326 | (0.978) | 376942 | 10.0000 | 10.01 |
| 123 Acetophenone | 105 | 7.919 | 7.935 | (1.101) | 683980 | 10.0000 | 10.08 |
| 168 Pentachlorobenzene | 250 | 12.460 | 12.471 | (1.030) | 512290 | 10.0000 | 9.990 |
| 113 Diphenyl Oxide | 170 | 11.392 | 11.403 | (0.941) | 709337 | 10.0000 | 9.663 |
| 112 Biphenyl | 154 | 11.199 | 11.205 | (0.925) | 1150564 | 10.0000 | 9.725 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.727 | 12.733 | (1.052) | 263701 | 10.0000 | 11.07 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.751 | 10.756 | (0.888) | 531246 | 10.0000 | 9.929 |
| 110 Tetrachloroguaiacol | 247 | 14.431 | 14.453 | (0.999) | 400245 | 20.0000 | 22.42 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.823 | 12.840 | (0.887) | 204293 | 10.0000 | 10.40 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.941 | 12.952 | (1.799) | 245866 | 10.0000 | 10.36 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.855 | 13.871 | (1.145) | 211647 | 10.0000 | 10.15 |
| 184 3,4-Dichloroguaiacol | 192 | 11.296 | 11.306 | (1.570) | 222024 | 10.0000 | 10.37 |
| 107 4,5-Dichloroguaiacol | 192 | 12.092 | 12.108 | (0.999) | 563729 | 20.0000 | 20.32 |
| 182 4,6-Dichloroguaiacol | 192 | 12.092 | 12.108 | (1.681) | 563288 | 20.0000 | 20.26 |
| 185 4-Chloroguaiacol | 115 | 10.227 | 10.233 | (1.422) | 105575 | 5.00000 | 5.103 |
| 186 Carbaryl | 144 | 15.292 | 15.324 | (1.058) | 694562 | 10.0000 | 10.22 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.265 | 15.297 | (1.056) | 319540 | 10.0000 | 10.81 |
| 106 Guaiacol | 124 | 8.203 | 8.213 | (1.140) | 426590 | 10.0000 | 9.886 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231204.D
 Lab Smp Id: IC100523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC100523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 859474 | -10.82 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3055832 | -10.92 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1920679 | -14.98 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3012715 | -12.59 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3283977 | -17.10 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3087098 | -17.87 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3490837 | -15.97 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.03 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.25 | -0.03 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.02 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.02 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.04 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.02 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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.

Date : 23-MAY-2012 15:15

Client ID: IC100523

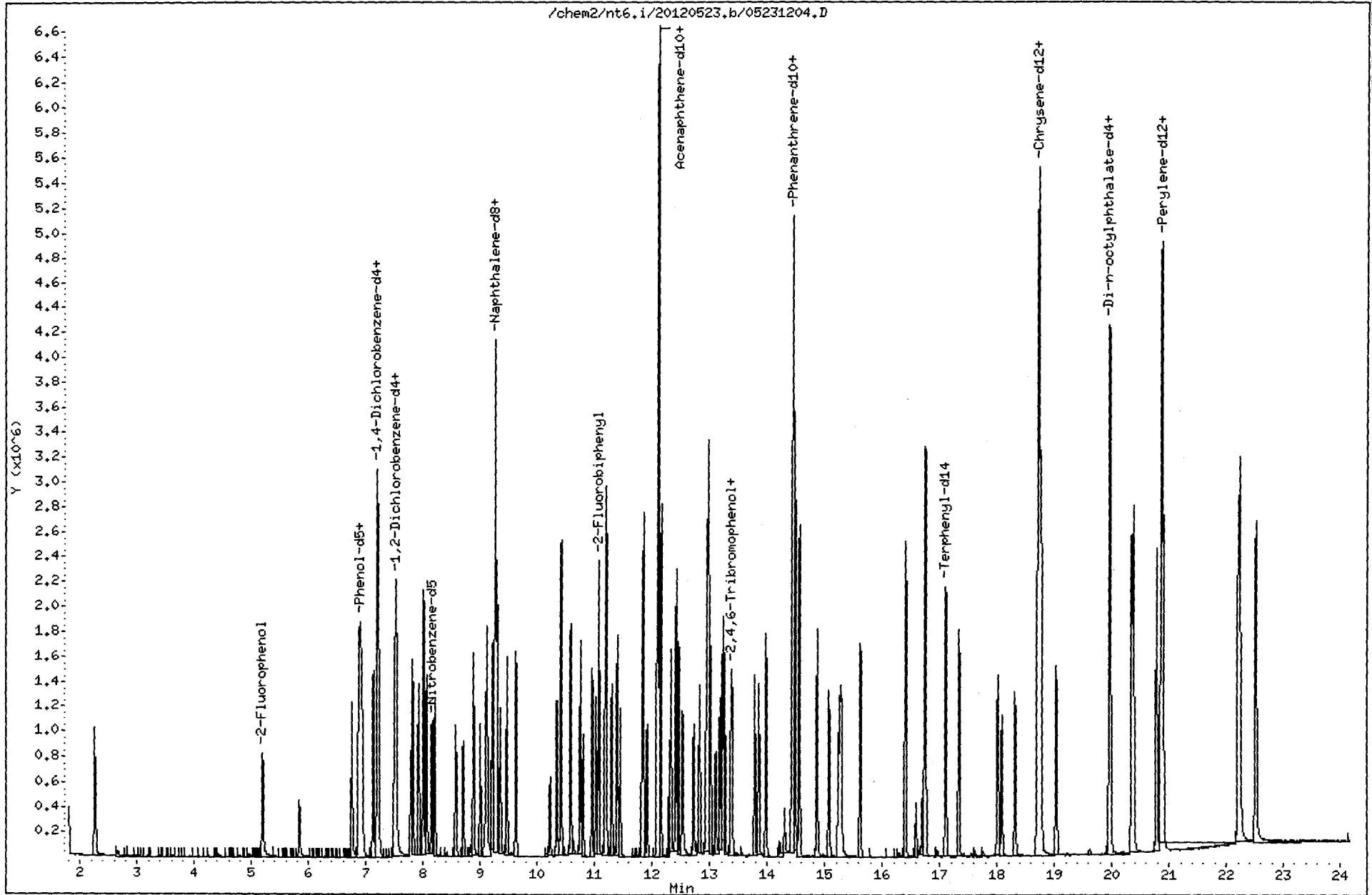
Sample Info: IC100523,

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32

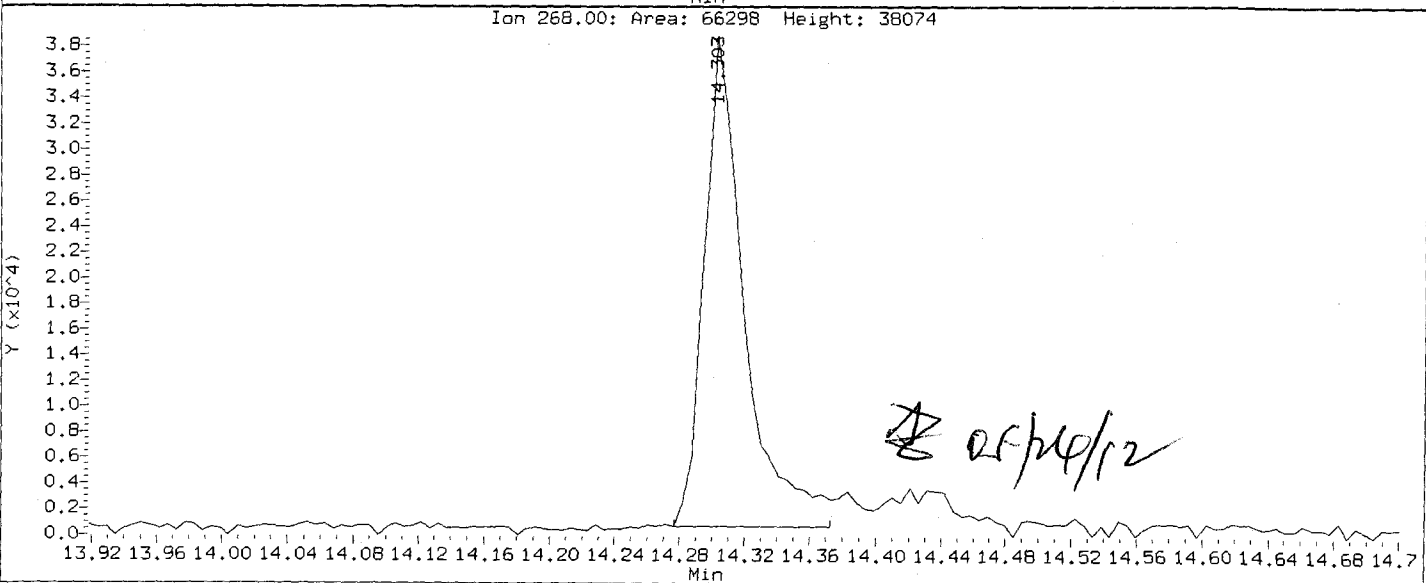
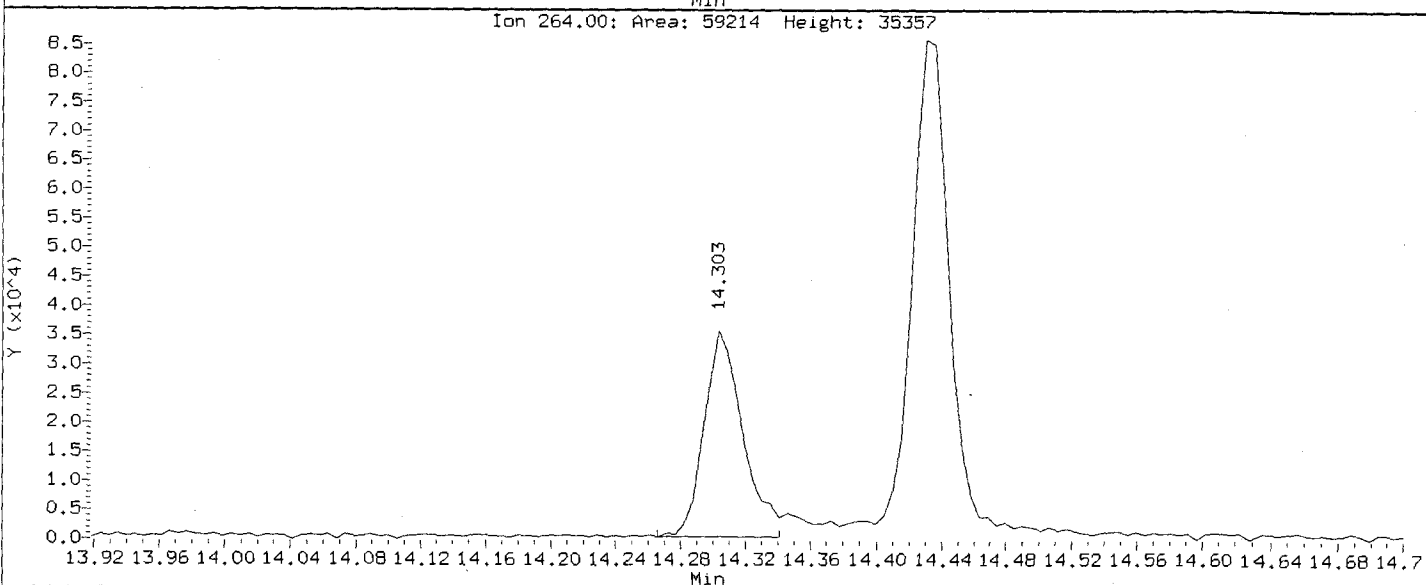
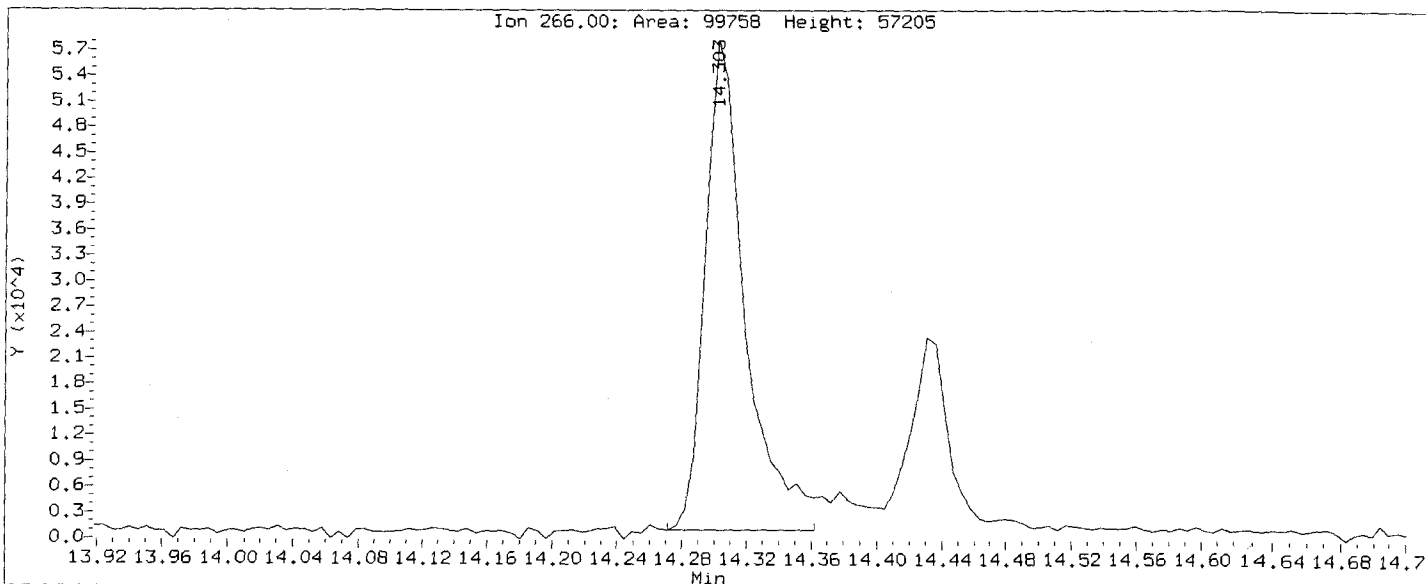
Column phase: ZB-5msi



05231204.D

Data File: /chem2/nt6.i/20120523.b/05231204.D
Injection Date: 23-MAY-2012 15:15
Instrument: nt6.i
Client Sample ID: IC100523

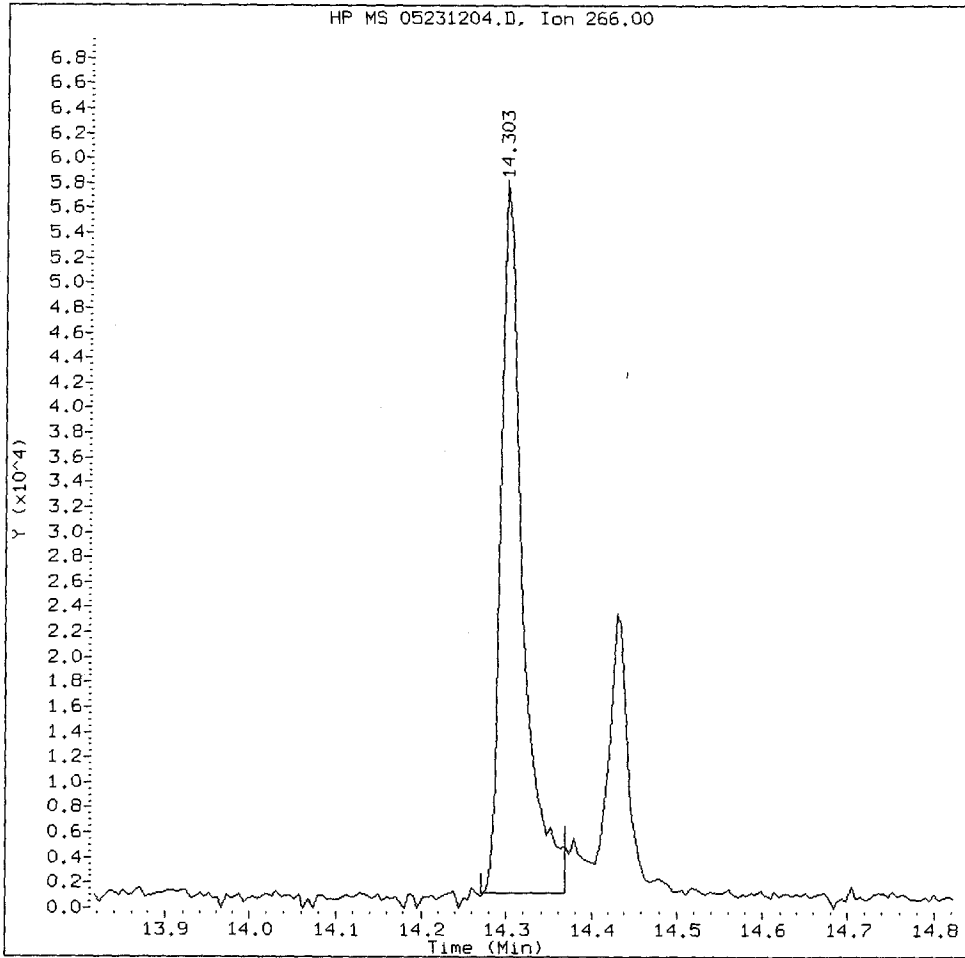
Compound: Pentachlorophenol
CAS Number: 87-86-5



0052: 00574

IC100523, /chem2/nt6.i/20120523.b/05231204.D

Pentachlorophenol Amount: 11.68 Area: 100161



MANUAL INTEGRATION for Pentachlorophenol

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

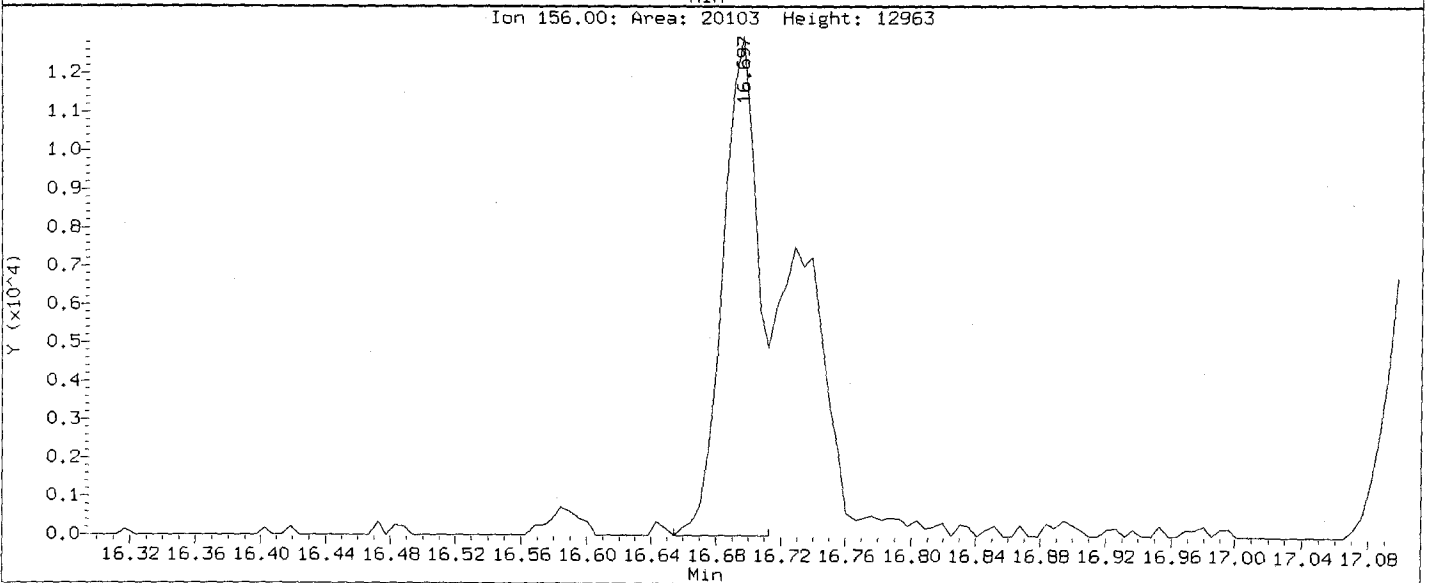
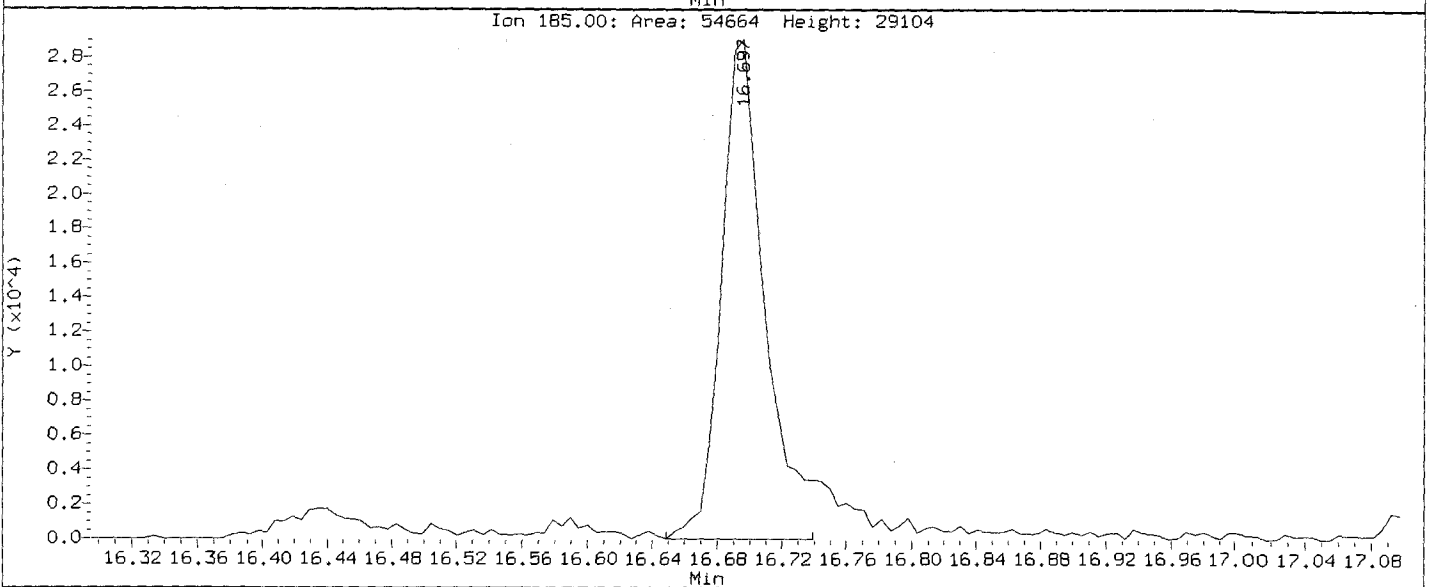
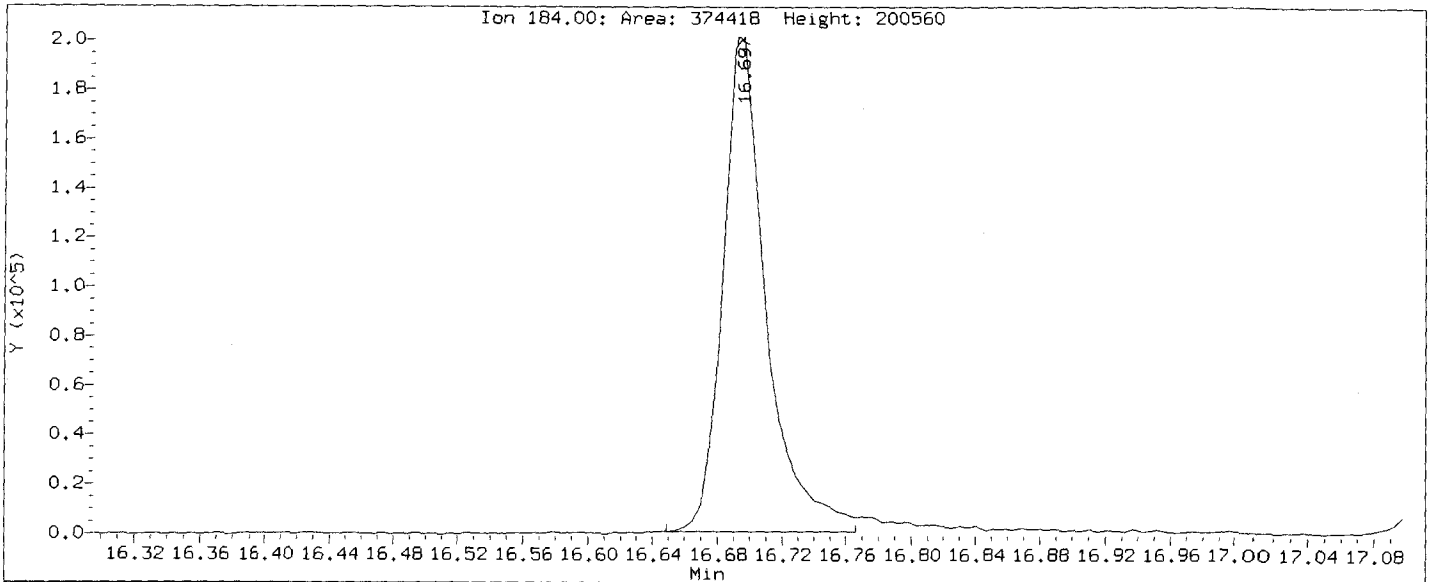
5. Other _____

Analyst: *AS*

Date: 05/24/12

Data File: /chem2/nt6.i/20120523.b/05231204.D
Injection Date: 23-MAY-2012 15:15
Instrument: nt6.i
Client Sample ID: IC100523

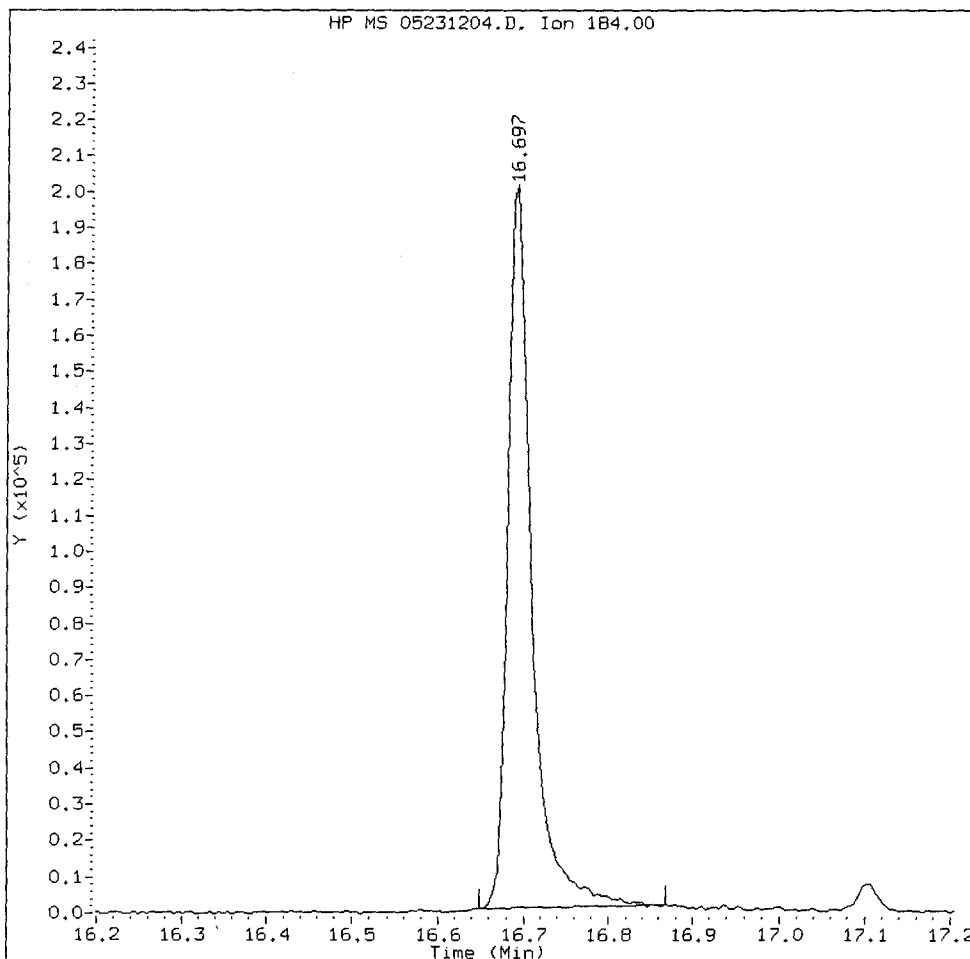
Compound: Benzidine
CAS Number:



0052:00576

IC100523, /chem2/nt6.i/20120523.b/05231204.D

Benzidine Amount: 8.75 Area: 381998



MANUAL INTEGRATION for Benzidine

1. Baseline correction
- ②. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB

Date: 05/24/12

CO-ELUTION SUMMARY FOR FILE - 05231204.D

Lab ID: IC100523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

UU52:00578

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231201.D
 Lab Smp Id: IC250523 Client Smp ID: IC250523
 Inj Date : 23-MAY-2012 13:34
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC250523,
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 13:34 Cal File: 05231201.D
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALS.sub
 Target Version: 3.50

Handwritten: 05/23 29/12

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|-------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 5.187 | 5.194 | (0.721) | 1315160 | 25.0000 | 24.34 |
| \$ 2 Phenol-d5 | 99 | 6.870 | 6.877 | (0.955) | 1575166 | 25.0000 | 24.14 |
| 3 Phenol | 94 | 6.886 | 6.894 | (0.958) | 1995153 | 25.0000 | 24.38 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.907 | 6.909 | (0.961) | 1514451 | 25.0000 | 23.82 |
| 4 Bis(2-Chloroethyl) ether | 93 | 6.897 | 6.899 | (0.959) | 1333301 | 25.0000 | 24.41 |
| 6 2-Chlorophenol | 128 | 6.934 | 6.936 | (0.964) | 1796022 | 25.0000 | 23.98 |
| 7 1,3-Dichlorobenzene | 146 | 7.121 | 7.129 | (0.990) | 1762297 | 25.0000 | 23.50 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.191 | 7.193 | (1.000) | 963757 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.217 | 7.220 | (1.004) | 1771473 | 25.0000 | 23.48 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.495 | 7.497 | (1.042) | 1076886 | 25.0000 | 22.99 |
| 12 1,2-Dichlorobenzene | 146 | 7.516 | 7.519 | (1.045) | 1703628 | 25.0000 | 23.78 |
| 11 Benzyl alcohol | 108 | 7.532 | 7.545 | (1.048) | 1011150 | 25.0000 | 26.22 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.784 | 7.791 | (1.082) | 1465533 | 25.0000 | 23.41 |
| 13 2-Methylphenol | 108 | 7.816 | 7.823 | (1.087) | 1499738 | 25.0000 | 24.34 |
| 17 Hexachloroethane | 117 | 8.003 | 8.005 | (1.113) | 632038 | 25.0000 | 24.32 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.008 | 8.026 | (1.114) | 877266 | 25.0000 | 23.78 |
| 15 4-Methylphenol | 108 | 8.056 | 8.069 | (1.120) | 1588598 | 25.0000 | 25.19 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.152 | 8.159 | (0.881) | 1296148 | 25.0000 | 23.79 |
| 19 Nitrobenzene | 77 | 8.179 | 8.187 | (0.883) | 1355408 | 25.0000 | 23.98 |
| 20 Isophorone | 82 | 8.574 | 8.593 | (0.926) | 1965007 | 25.0000 | 23.56 |
| 21 2-Nitrophenol | 139 | 8.702 | 8.710 | (0.940) | 999440 | 25.0000 | 25.05 |
| 22 2,4-Dimethylphenol | 107 | 8.879 | 8.892 | (0.959) | 1512176 | 25.0000 | 25.01 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 9.002 | 9.009 | (0.972) | 1489111 | 25.0000 | 23.81 |
| 24 Benzoic acid | 105 | 9.188 | 9.303 | (0.992) | 1661998 | 50.0000 | 62.88 |
| 25 2,4-Dichlorophenol | 162 | 9.114 | 9.121 | (0.984) | 1527091 | 25.0000 | 25.96 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.210 | 9.218 | (0.995) | 1496674 | 25.0000 | 23.58 |
| * 27 Naphthalene-d8 | 136 | 9.258 | 9.266 | (1.000) | 3430476 | 20.0000 | |

| Compounds | QUANT SIG | AMOUNTS | | | | | |
|-------------------------------|-----------|---------|--------|---------|---------|----------|-----------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 28 Naphthalene | 128 | 9.290 | 9.298 | (1.003) | 4244756 | 25.0000 | 22.13 |
| 29 4-Chloroaniline | 127 | 9.466 | 9.479 | (1.022) | 1983504 | 25.0000 | 23.79 |
| 30 Hexachlorobutadiene | 225 | 9.627 | 9.629 | (1.040) | 914673 | 25.0000 | 23.72 |
| 31 4-Chloro-3-methylphenol | 107 | 10.337 | 10.345 | (1.117) | 1258577 | 25.0000 | 26.83 |
| 32 2-Methylnaphthalene | 141 | 10.412 | 10.420 | (1.125) | 2557354 | 25.0000 | 22.47 |
| 33 Hexachlorocyclopentadiene | 237 | 10.796 | 10.799 | (0.892) | 866501 | 25.0000 | 28.43 |
| 34 2,4,6-Trichlorophenol | 196 | 10.957 | 10.964 | (0.905) | 1142760 | 25.0000 | 25.82 |
| 35 2,4,5-Trichlorophenol | 196 | 11.026 | 11.029 | (0.911) | 1192248 | 25.0000 | 28.14 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.074 | 11.076 | (0.915) | 3031186 | 25.0000 | 21.60 |
| 37 2-Chloronaphthalene | 162 | 11.186 | 11.189 | (0.924) | 2743232 | 25.0000 | 22.85 |
| 38 2-Nitroaniline | 65 | 11.448 | 11.461 | (0.946) | 682563 | 25.0000 | 24.61 |
| 39 Dimethylphthalate | 163 | 11.838 | 11.857 | (0.978) | 2693238 | 25.0000 | 21.67 |
| 40 Acenaphthylene | 152 | 11.854 | 11.862 | (0.979) | 4285095 | 25.0000 | 21.44 |
| 41 2,6-Dinitrotoluene | 165 | 11.918 | 11.937 | (0.985) | 680270 | 25.0000 | 23.60 |
| * 42 Acenaphthene-d10 | 164 | 12.105 | 12.108 | (1.000) | 2259168 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.127 | 12.150 | (1.002) | 828045 | 25.0000 | 23.54 |
| 44 Acenaphthene | 153 | 12.153 | 12.166 | (1.004) | 2762439 | 25.0000 | 21.78 |
| 45 2,4-Dinitrophenol | 184 | 12.298 | 12.316 | (1.016) | 811764 | 50.0000 | 84.13 |
| 46 Dibenzofuran | 168 | 12.420 | 12.434 | (1.026) | 3924162 | 25.0000 | 20.75 |
| 47 4-Nitrophenol | 109 | 12.517 | 12.530 | (1.034) | 255596 | 25.0000 | 29.40 |
| 48 2,4-Dinitrotoluene | 165 | 12.538 | 12.556 | (1.036) | 883997 | 25.0000 | 24.36 |
| 50 Diethylphthalate | 149 | 12.992 | 13.000 | (1.073) | 2533333 | 25.0000 | 21.45 |
| 49 Fluorene | 166 | 12.971 | 12.984 | (1.071) | 3270965 | 25.0000 | 22.14 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.019 | 13.027 | (1.075) | 1552188 | 25.0000 | 22.40 |
| 52 4-Nitroaniline | 138 | 13.120 | 13.149 | (1.084) | 718003 | 25.0000 | 23.43 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.190 | 13.214 | (0.912) | 1302430 | 50.0000 | 57.64 |
| 54 N-Nitrosodiphenylamine | 169 | 13.232 | 13.251 | (0.915) | 2049146 | 25.0000 | 22.93 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.398 | 13.405 | (1.107) | 655080 | 25.0000 | 23.17 |
| 56 4-Bromophenyl-phenylether | 248 | 13.788 | 13.790 | (0.954) | 999870 | 25.0000 | 22.81 |
| 57 Hexachlorobenzene | 284 | 13.986 | 13.993 | (0.967) | 1255518 | 25.0000 | 22.82 |
| 58 Pentachlorophenol | 266 | 14.306 | 14.319 | (0.990) | 530749 | 25.0000 | 38.97 |
| * 59 Phenanthrene-d10 | 188 | 14.456 | 14.464 | (1.000) | 3446677 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.493 | 14.506 | (1.003) | 4266599 | 25.0000 | 21.75 |
| 61 Anthracene | 178 | 14.563 | 14.581 | (1.007) | 4397490 | 25.0000 | 22.09 |
| 62 Carbazole | 167 | 14.873 | 14.886 | (1.029) | 3290501 | 25.0000 | 22.01 |
| 63 Di-n-butylphthalate | 149 | 15.626 | 15.633 | (1.081) | 4087520 | 25.0000 | 22.86 |
| 64 Fluoranthene | 202 | 16.411 | 16.419 | (1.135) | 4680185 | 25.0000 | 22.29 |
| 65 Pyrene | 202 | 16.753 | 16.766 | (0.894) | 4915730 | 25.0000 | 21.57 |
| \$ 66 Terphenyl-d14 | 244 | 17.106 | 17.113 | (0.913) | 3099271 | 25.0000 | 22.10 |
| 67 Butylbenzylphthalate | 149 | 18.019 | 18.027 | (0.962) | 1842894 | 25.0000 | 23.94 |
| 68 Benzo(a)anthracene | 228 | 18.708 | 18.721 | (0.999) | 4759419 | 25.0000 | 22.17 |
| * 69 Chrysene-d12 | 240 | 18.735 | 18.743 | (1.000) | 3961525 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.751 | 18.759 | (1.001) | 1850856 | 25.0000 | 22.68 |
| 71 Chrysene | 228 | 18.772 | 18.791 | (1.002) | 4580014 | 25.0000 | 22.10 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.034 | 19.036 | (0.953) | 2442106 | 25.0000 | 22.73 |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.964 | 19.971 | (1.000) | 3758743 | 20.0000 | |
| 73 Di-n-octylphthalate | 149 | 19.974 | 19.982 | (1.001) | 4154486 | 25.0000 | 21.98 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | |
| 74 Benzo(b)fluoranthene | 252 | 20.354 | 20.377 | (0.975) | 5514302 | 25.0000 | 22.91 |
| 75 Benzo(k)fluoranthene | 252 | 20.386 | 20.377 | (0.977) | 5001160 | 25.0000 | 21.76 |
| 187 Total Benzofluoranthenes | 252 | 20.386 | 20.409 | (0.977) | 9877514 | 50.0000 | 44.60 |
| 76 Benzo(a)pyrene | 252 | 20.786 | 20.810 | (0.996) | 4679844 | 25.0000 | 22.73 |
| * 77 Perylene-d12 | 264 | 20.872 | 20.879 | (1.000) | 4154109 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.218 | 22.242 | (1.064) | 6847369 | 25.0000 | 23.21 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.245 | 22.274 | (1.066) | 5714466 | 25.0000 | 23.27 |
| 80 Benzo(g,h,i)perylene | 276 | 22.528 | 22.562 | (1.079) | 5793700 | 25.0000 | 22.97 |
| 90 N-Nitrosodimethylamine | 74 | 2.276 | 2.305 | (0.316) | 782520 | 25.0000 | 23.88 |
| 103 Pyridine | 79 | 2.254 | 2.267 | (0.314) | 1384362 | 25.0000 | 25.55 |
| 91 Aniline | 93 | 6.758 | 6.760 | (0.940) | 2166689 | 25.0000 | 23.11 |
| 105 1-methylnaphthalene | 141 | 10.583 | 10.585 | (1.143) | 1908529 | 25.0000 | 22.18 |
| 93 Benzidine | 184 | 16.700 | 16.702 | (0.891) | 1559409 | 25.0000 | 27.90 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.265 | 13.278 | (1.096) | 2497336 | 25.0000 | 23.18 |
| 143 1,4-Dioxane | 88 | 1.806 | 1.819 | (0.251) | 479900 | 25.0000 | 24.04 |
| \$ 137 d8-1,4-Dioxane | 96 | 1.774 | 1.781 | (0.247) | 505541 | 25.0000 | 23.42 |
| 144 alpha-Terpineol | 59 | 9.354 | 9.362 | (1.010) | 760206 | 25.0000 | 22.91 |
| 177 p-Benzoquinone | 82 | 5.834 | 5.836 | (0.630) | 237191 | 25.0000 | 27.73 |
| 98 Retene | 219 | 17.341 | 17.348 | (0.926) | 1690121 | 25.0000 | 23.05 |
| 99 Perylene | 252 | 20.904 | 20.928 | (1.002) | 4343754 | 25.0000 | 21.29 |
| 133 Butylatedhydroxytoluene | 205 | 12.330 | 12.337 | (1.019) | 2064529 | 25.0000 | 22.93 |
| 115 Tributyl Phosphate | 99 | 13.382 | 13.411 | (0.926) | 2378963 | 25.0000 | 22.76 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.086 | 15.105 | (1.044) | 1899261 | 25.0000 | 23.46 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.737 | 16.745 | (0.893) | 550165 | 25.0000 | 23.80 |
| 118 Triphenyl Phosphate | 326 | 18.318 | 18.326 | (0.978) | 1056385 | 25.0000 | 23.66 |
| 123 Acetophenone | 105 | 7.922 | 7.935 | (1.102) | 1786242 | 25.0000 | 23.84 |
| 168 Pentachlorobenzene | 250 | 12.463 | 12.471 | (1.030) | 1335834 | 25.0000 | 22.80 |
| 113 Diphenyl Oxide | 170 | 11.395 | 11.403 | (0.941) | 1855023 | 25.0000 | 22.27 |
| 112 Biphenyl | 154 | 11.197 | 11.205 | (0.925) | 2892135 | 25.0000 | 21.70 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.725 | 12.733 | (1.051) | 813226 | 25.0000 | 27.91 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.754 | 10.756 | (0.888) | 1391605 | 25.0000 | 22.77 |
| 110 Tetrachloroguaiacol | 247 | 14.440 | 14.453 | (0.999) | 1114343 | 50.0000 | 53.35 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.832 | 12.840 | (0.888) | 525905 | 25.0000 | 23.78 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.944 | 12.952 | (1.800) | 640830 | 25.0000 | 24.31 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.858 | 13.871 | (1.145) | 538400 | 25.0000 | 22.64 |
| 184 3,4-Dichloroguaiacol | 192 | 11.299 | 11.306 | (1.571) | 590327 | 25.0000 | 24.69 |
| 107 4,5-Dichloroguaiacol | 192 | 12.095 | 12.108 | (0.999) | 1443225 | 50.0000 | 45.54 |
| 182 4,6-Dichloroguaiacol | 192 | 12.095 | 12.108 | (1.682) | 1438898 | 50.0000 | 47.06 |
| 185 4-Chloroguaiacol | 115 | 10.225 | 10.233 | (1.422) | 282957 | 12.5000 | 12.27 |
| 186 Carbaryl | 144 | 15.300 | 15.324 | (1.058) | 2143169 | 25.0000 | 26.88 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.273 | 15.297 | (1.057) | 875943 | 25.0000 | 25.67 |
| 106 Guaiacol | 124 | 8.206 | 8.213 | (1.141) | 1140575 | 25.0000 | 23.91 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231201.D
 Lab Smp Id: IC250523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC250523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 963757 | 0.00 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3430476 | 0.00 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2259168 | 0.00 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3446677 | 0.00 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3961525 | 0.00 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3758743 | 0.00 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4154109 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.00 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | 0.00 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.00 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.00 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | 0.00 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | 0.00 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | 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.

Date : 23-MAY-2012 13:34

Client ID: IC250523

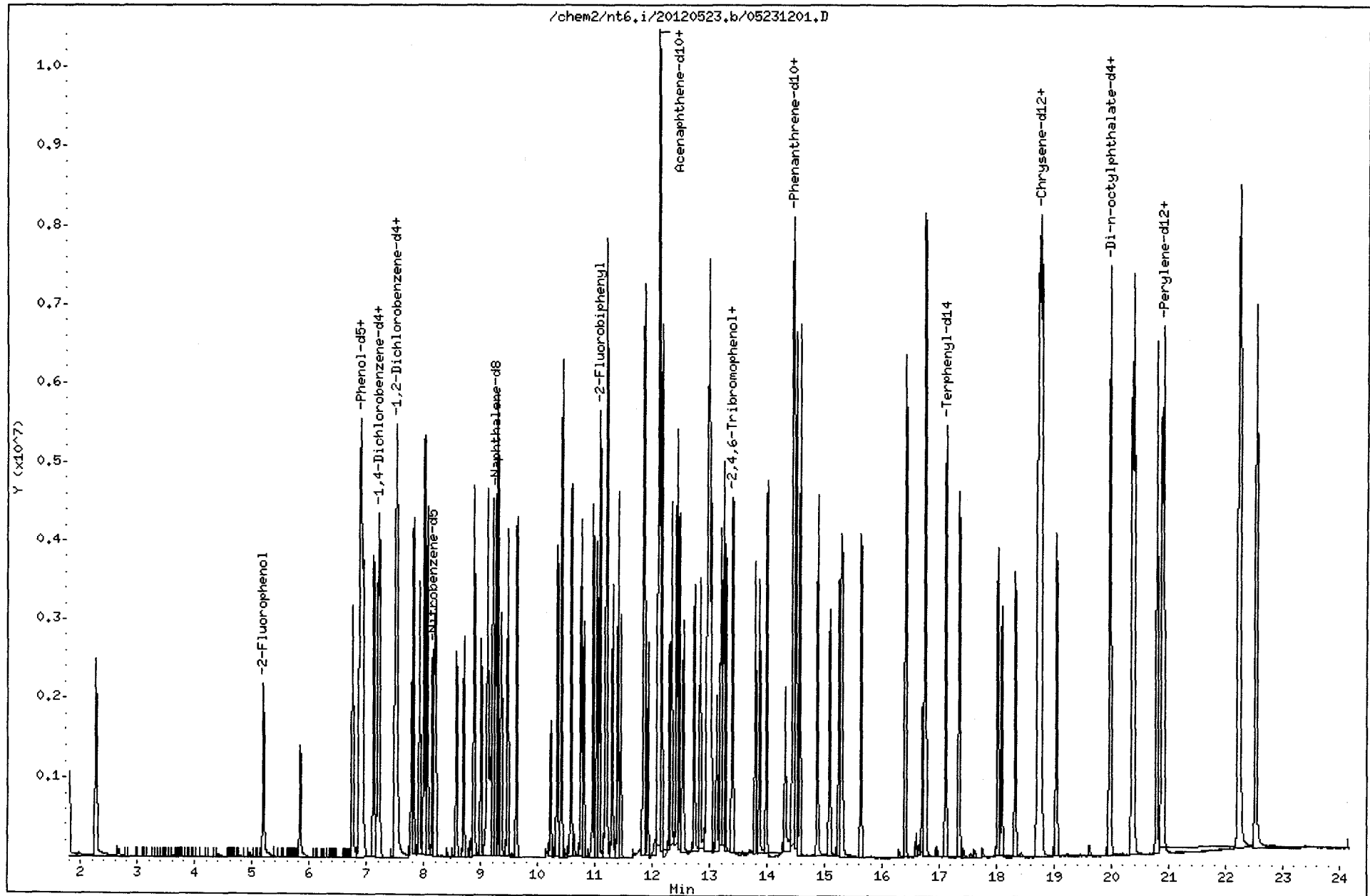
Sample Info: IC250523,

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



05231201.D

CO-ELUTION SUMMARY FOR FILE - 05231201.D

Lab ID: IC250523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

UU52:00584

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231205.D
 Lab Smp Id: IC400523 Client Smp ID: IC400523
 Inj Date : 23-MAY-2012 15:48
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC400523,
 Misc Info : 12-
 Comment : lul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 15:48 Cal File: 05231205.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALS.sub
 Target Version: 3.50

Handwritten signature and date: JZ 05/24/12

| Compounds | QUANT SIG | | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|----|-------|--------|---------|----------|-----------------|----------------|
| | MASS | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | == | 5.189 | 5.194 | (0.721) | 2188127 | 40.0000 | 44.57 |
| \$ 2 Phenol-d5 | 99 | == | 6.872 | 6.877 | (0.955) | 2581093 | 40.0000 | 43.75 |
| 3 Phenol | 94 | == | 6.888 | 6.894 | (0.958) | 2943416 | 40.0000 | 40.59 |
| \$ 5 2-Chlorophenol-d4 | 132 | == | 6.909 | 6.909 | (0.961) | 2467252 | 40.0000 | 43.11 |
| 4 Bis(2-Chloroethyl)ether | 93 | == | 6.898 | 6.899 | (0.959) | 2127461 | 40.0000 | 43.24 |
| 6 2-Chlorophenol | 128 | == | 6.936 | 6.936 | (0.964) | 2649332 | 40.0000 | 40.06 |
| 7 1,3-Dichlorobenzene | 146 | == | 7.128 | 7.129 | (0.991) | 2801357 | 40.0000 | 41.83 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | == | 7.192 | 7.193 | (1.000) | 850778 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | == | 7.219 | 7.220 | (1.004) | 2776027 | 40.0000 | 41.34 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | == | 7.497 | 7.497 | (1.042) | 1759908 | 40.0000 | 42.02 |
| 12 1,2-Dichlorobenzene | 146 | == | 7.518 | 7.519 | (1.045) | 2690679 | 40.0000 | 42.02 |
| 11 Benzyl alcohol | 108 | == | 7.534 | 7.545 | (1.048) | 1712439 | 40.0000 | 47.84 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | == | 7.785 | 7.791 | (1.082) | 2337774 | 40.0000 | 41.82 |
| 13 2-Methylphenol | 108 | == | 7.817 | 7.823 | (1.087) | 2268186 | 40.0000 | 41.35 |
| 17 Hexachloroethane | 117 | == | 8.004 | 8.005 | (1.113) | 1015633 | 40.0000 | 43.35 |
| 16 N-Nitroso-di-n-propylamine | 70 | == | 8.015 | 8.026 | (1.114) | 1452272 | 40.0000 | 43.60 |
| 15 4-Methylphenol | 108 | == | 8.063 | 8.069 | (1.121) | 2384576 | 40.0000 | 42.23 |
| \$ 18 Nitrobenzene-d5 | 82 | == | 8.154 | 8.159 | (0.881) | 2129580 | 40.0000 | 42.30 |
| 19 Nitrobenzene | 77 | == | 8.186 | 8.187 | (0.884) | 2193129 | 40.0000 | 42.05 |
| 20 Isophorone | 82 | == | 8.581 | 8.593 | (0.927) | 3223860 | 40.0000 | 41.93 |
| 21 2-Nitrophenol | 139 | == | 8.704 | 8.710 | (0.940) | 1512491 | 40.0000 | 41.29 |
| 22 2,4-Dimethylphenol | 107 | == | 8.886 | 8.892 | (0.960) | 2272983 | 40.0000 | 41.01 |
| 23 Bis(2-Chloroethoxy)methane | 93 | == | 9.003 | 9.009 | (0.972) | 2420233 | 40.0000 | 41.97 |
| 24 Benzoic acid | 105 | == | 9.233 | 9.303 | (0.997) | 2853914 | 80.0000 | 105.8 |
| 25 2,4-Dichlorophenol | 162 | == | 9.115 | 9.121 | (0.984) | 2302289 | 40.0000 | 42.34 |
| 26 1,2,4-Trichlorobenzene | 180 | == | 9.212 | 9.218 | (0.995) | 2451465 | 40.0000 | 41.90 |
| * 27 Naphthalene-d8 | 136 | == | 9.260 | 9.266 | (1.000) | 3124146 | 20.0000 | |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-----------|------|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | | 128 | 9.292 | 9.298 | (1.003) | 6305923 | 40.0000 | 36.81 |
| 29 4-Chloroaniline | | 127 | 9.468 | 9.479 | (1.022) | 3069942 | 40.0000 | 40.34 |
| 30 Hexachlorobutadiene | | 225 | 9.628 | 9.629 | (1.040) | 1489519 | 40.0000 | 41.91 |
| 31 4-Chloro-3-methylphenol | | 107 | 10.339 | 10.345 | (1.117) | 1920850 | 40.0000 | 43.87 |
| 32 2-Methylnaphthalene | | 141 | 10.419 | 10.420 | (1.125) | 4107135 | 40.0000 | 39.70 |
| 33 Hexachlorocyclopentadiene | | 237 | 10.798 | 10.799 | (0.892) | 1528103 | 40.0000 | 50.31 |
| 34 2,4,6-Trichlorophenol | | 196 | 10.958 | 10.964 | (0.905) | 1795541 | 40.0000 | 43.54 |
| 35 2,4,5-Trichlorophenol | | 196 | 11.023 | 11.029 | (0.910) | 1818143 | 40.0000 | 45.48 |
| \$ 36 2-Fluorobiphenyl | | 172 | 11.076 | 11.076 | (0.915) | 4881983 | 40.0000 | 38.54 |
| 37 2-Chloronaphthalene | | 162 | 11.188 | 11.189 | (0.924) | 4425373 | 40.0000 | 40.37 |
| 38 2-Nitroaniline | | 65 | 11.455 | 11.461 | (0.946) | 1150135 | 40.0000 | 44.29 |
| 39 Dimethylphthalate | | 163 | 11.845 | 11.857 | (0.978) | 4368279 | 40.0000 | 38.85 |
| 40 Acenaphthylene | | 152 | 11.856 | 11.862 | (0.979) | 6730090 | 40.0000 | 37.53 |
| 41 2,6-Dinitrotoluene | | 165 | 11.925 | 11.937 | (0.985) | 1137310 | 40.0000 | 42.60 |
| * 42 Acenaphthene-d10 | | 164 | 12.107 | 12.108 | (1.000) | 2058292 | 20.0000 | |
| 43 3-Nitroaniline | | 138 | 12.134 | 12.150 | (1.002) | 1267727 | 40.0000 | 39.65 |
| 44 Acenaphthene | | 153 | 12.160 | 12.166 | (1.004) | 4373179 | 40.0000 | 38.26 |
| 45 2,4-Dinitrophenol | | 184 | 12.299 | 12.316 | (1.016) | 1428791 | 80.0000 | 129.2 |
| 46 Dibenzofuran | | 168 | 12.422 | 12.434 | (1.026) | 6096491 | 40.0000 | 36.21 |
| 47 4-Nitrophenol | | 109 | 12.524 | 12.530 | (1.034) | 420980 | 40.0000 | 49.11 |
| 48 2,4-Dinitrotoluene | | 165 | 12.545 | 12.556 | (1.036) | 1481727 | 40.0000 | 43.76 |
| 50 Diethylphthalate | | 149 | 12.994 | 13.000 | (1.073) | 4131729 | 40.0000 | 38.71 |
| 49 Fluorene | | 166 | 12.978 | 12.984 | (1.072) | 5169716 | 40.0000 | 38.72 |
| 51 4-Chlorophenyl-phenylether | | 204 | 13.020 | 13.027 | (1.075) | 2593165 | 40.0000 | 40.86 |
| 52 4-Nitroaniline | | 138 | 13.127 | 13.149 | (1.084) | 1202499 | 40.0000 | 42.42 |
| 53 4,6-Dinitro-2-methylphenol | | 198 | 13.197 | 13.214 | (0.913) | 2003842 | 80.0000 | 92.91 |
| 54 N-Nitrosodiphenylamine | | 169 | 13.239 | 13.251 | (0.916) | 3346918 | 40.0000 | 41.17 |
| \$ 55 2,4,6-Tribromophenol | | 330 | 13.400 | 13.405 | (1.107) | 1140194 | 40.0000 | 43.35 |
| 56 4-Bromophenyl-phenylether | | 248 | 13.790 | 13.790 | (0.954) | 1688097 | 40.0000 | 42.09 |
| 57 Hexachlorobenzene | | 284 | 13.987 | 13.993 | (0.967) | 2093454 | 40.0000 | 41.69 |
| 58 Pentachlorophenol | | 266 | 14.308 | 14.319 | (0.990) | 885434 | 40.0000 | 59.99 |
| * 59 Phenanthrene-d10 | | 188 | 14.457 | 14.464 | (1.000) | 3113173 | 20.0000 | |
| 60 Phenanthrene | | 178 | 14.495 | 14.506 | (1.003) | 6466785 | 40.0000 | 37.15 |
| 61 Anthracene | | 178 | 14.570 | 14.581 | (1.008) | 6623176 | 40.0000 | 37.42 |
| 62 Carbazole | | 167 | 14.874 | 14.886 | (1.029) | 5128809 | 40.0000 | 38.37 |
| 63 Di-n-butylphthalate | | 149 | 15.627 | 15.633 | (1.081) | 6194781 | 40.0000 | 38.68 |
| 64 Fluoranthene | | 202 | 16.413 | 16.419 | (1.135) | 6894359 | 40.0000 | 37.03 |
| 65 Pyrene | | 202 | 16.755 | 16.766 | (0.894) | 7246945 | 40.0000 | 37.11 |
| \$ 66 Terphenyl-d14 | | 244 | 17.113 | 17.113 | (0.913) | 4932214 | 40.0000 | 40.25 |
| 67 Butylbenzylphthalate | | 149 | 18.021 | 18.027 | (0.962) | 2985193 | 40.0000 | 43.48 |
| 68 Benzo(a)anthracene | | 228 | 18.715 | 18.721 | (0.999) | 7154469 | 40.0000 | 38.54 |
| * 69 Chrysene-d12 | | 240 | 18.737 | 18.743 | (1.000) | 3455807 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | | 252 | 18.753 | 18.759 | (1.001) | 2852694 | 40.0000 | 40.05 |
| 71 Chrysene | | 228 | 18.779 | 18.791 | (1.002) | 6863740 | 40.0000 | 38.36 |
| 72 bis(2-Ethylhexyl)phthalate | | 149 | 19.036 | 19.036 | (0.953) | 3960090 | 40.0000 | 41.69 |
| * 134 Di-n-octylphthalate-d4 | | 153 | 19.965 | 19.971 | (1.000) | 3287975 | 20.0000 | |
| 73 Di-n-octylphthalate | | 149 | 19.976 | 19.982 | (1.001) | 6328444 | 40.0000 | 38.61 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 20.355 | 20.377 | (0.975) | 7663405 | 40.0000 | 37.81 |
| 75 Benzo(k)fluoranthene | 252 | 20.393 | 20.377 | (0.977) | 7872720 | 40.0000 | 40.10 |
| 187 Total Benzofluoranthenes | 252 | 20.393 | 20.409 | (0.977) | 14593835 | 80.0000 | 77.74 |
| 76 Benzo(a)pyrene | 252 | 20.793 | 20.810 | (0.996) | 7080963 | 40.0000 | 40.22 |
| * 77 Perylene-d12 | 264 | 20.868 | 20.879 | (1.000) | 3546130 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.225 | 22.242 | (1.065) | 10576812 | 40.0000 | 41.58 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.252 | 22.274 | (1.066) | 8488262 | 40.0000 | 40.39 |
| 80 Benzo(g,h,i)perylene | 276 | 22.540 | 22.562 | (1.080) | 8918214 | 40.0000 | 41.13 |
| 90 N-Nitrosodimethylamine | 74 | 2.288 | 2.305 | (0.318) | 1268785 | 40.0000 | 43.03 |
| 103 Pyridine | 79 | 2.256 | 2.267 | (0.314) | 2142520 | 40.0000 | 43.74 |
| 91 Aniline | 93 | 6.759 | 6.760 | (0.940) | 3093567 | 40.0000 | 37.87 |
| 105 1-methylnaphthalene | 141 | 10.584 | 10.585 | (1.143) | 3163085 | 40.0000 | 40.29 |
| 93 Benzidine | 184 | 16.701 | 16.702 | (0.891) | 1216358 | 40.0000 | 27.53 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.272 | 13.278 | (1.096) | 3971130 | 40.0000 | 40.36 |
| 143 1,4-Dioxane | 88 | 1.807 | 1.819 | (0.251) | 737099 | 40.0000 | 41.45 |
| § 137 d8-1,4-Dioxane | 96 | 1.775 | 1.781 | (0.247) | 778353 | 40.0000 | 40.68 |
| 144 alpha-Terpineol | 59 | 9.356 | 9.362 | (1.010) | 1276367 | 40.0000 | 41.78 |
| 177 p-Benzoquinone | 82 | 5.835 | 5.836 | (0.630) | 402056 | 40.0000 | 48.12 |
| 98 Retene | 219 | 17.342 | 17.348 | (0.926) | 2794608 | 40.0000 | 42.90 |
| 99 Perylene | 252 | 20.911 | 20.928 | (1.002) | 6582353 | 40.0000 | 38.22 |
| 133 Butylatedhydroxytoluene | 205 | 12.331 | 12.337 | (1.019) | 3275268 | 40.0000 | 39.95 |
| 115 Tributyl Phosphate | 99 | 13.389 | 13.411 | (0.926) | 3909671 | 40.0000 | 41.12 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.088 | 15.105 | (1.044) | 3200108 | 40.0000 | 42.96 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.739 | 16.745 | (0.893) | 918123 | 40.0000 | 44.30 |
| 118 Triphenyl Phosphate | 326 | 18.320 | 18.326 | (0.978) | 1756537 | 40.0000 | 43.98 |
| 123 Acetophenone | 105 | 7.929 | 7.935 | (1.103) | 2891786 | 40.0000 | 42.92 |
| 168 Pentachlorobenzene | 250 | 12.465 | 12.471 | (1.030) | 2259965 | 40.0000 | 41.84 |
| 113 Diphenyl Oxide | 170 | 11.402 | 11.403 | (0.942) | 3154783 | 40.0000 | 41.24 |
| 112 Biphenyl | 154 | 11.199 | 11.205 | (0.925) | 4652941 | 40.0000 | 38.64 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.727 | 12.733 | (1.051) | 1291429 | 40.0000 | 46.63 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.755 | 10.756 | (0.888) | 2298609 | 40.0000 | 41.02 |
| 110 Tetrachloroguaiacol | 247 | 14.441 | 14.453 | (0.999) | 1911259 | 80.0000 | 96.18 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.833 | 12.840 | (0.888) | 875247 | 40.0000 | 43.00 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.946 | 12.952 | (1.800) | 1096604 | 40.0000 | 45.51 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.859 | 13.871 | (1.145) | 913012 | 40.0000 | 41.70 |
| 184 3,4-Dichloroguaiacol | 192 | 11.300 | 11.306 | (1.571) | 963095 | 40.0000 | 44.38 |
| 107 4,5-Dichloroguaiacol | 192 | 12.102 | 12.108 | (1.000) | 2370865 | 80.0000 | 81.68 |
| 182 4,6-Dichloroguaiacol | 192 | 12.102 | 12.108 | (1.683) | 2402646 | 80.0000 | 87.05 |
| 185 4-Chloroguaiacol | 115 | 10.227 | 10.233 | (1.422) | 474629 | 20.0000 | 22.57 |
| 186 Carbaryl | 144 | 15.307 | 15.324 | (1.059) | 3318595 | 40.0000 | 44.72 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.280 | 15.297 | (1.057) | 1490973 | 40.0000 | 46.43 |
| 106 Guaiacol | 124 | 8.207 | 8.213 | (1.141) | 1869465 | 40.0000 | 43.44 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231205.D
 Lab Smp Id: IC400523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC400523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 850778 | -11.72 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3124146 | -8.93 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2058292 | -8.89 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3113173 | -9.68 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3455807 | -12.77 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3287975 | -12.52 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3546130 | -14.64 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.02 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | 0.02 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.01 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.01 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.74 | 0.01 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.97 | 0.01 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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.

Date : 23-MAY-2012 15:48

Client ID: IC400523

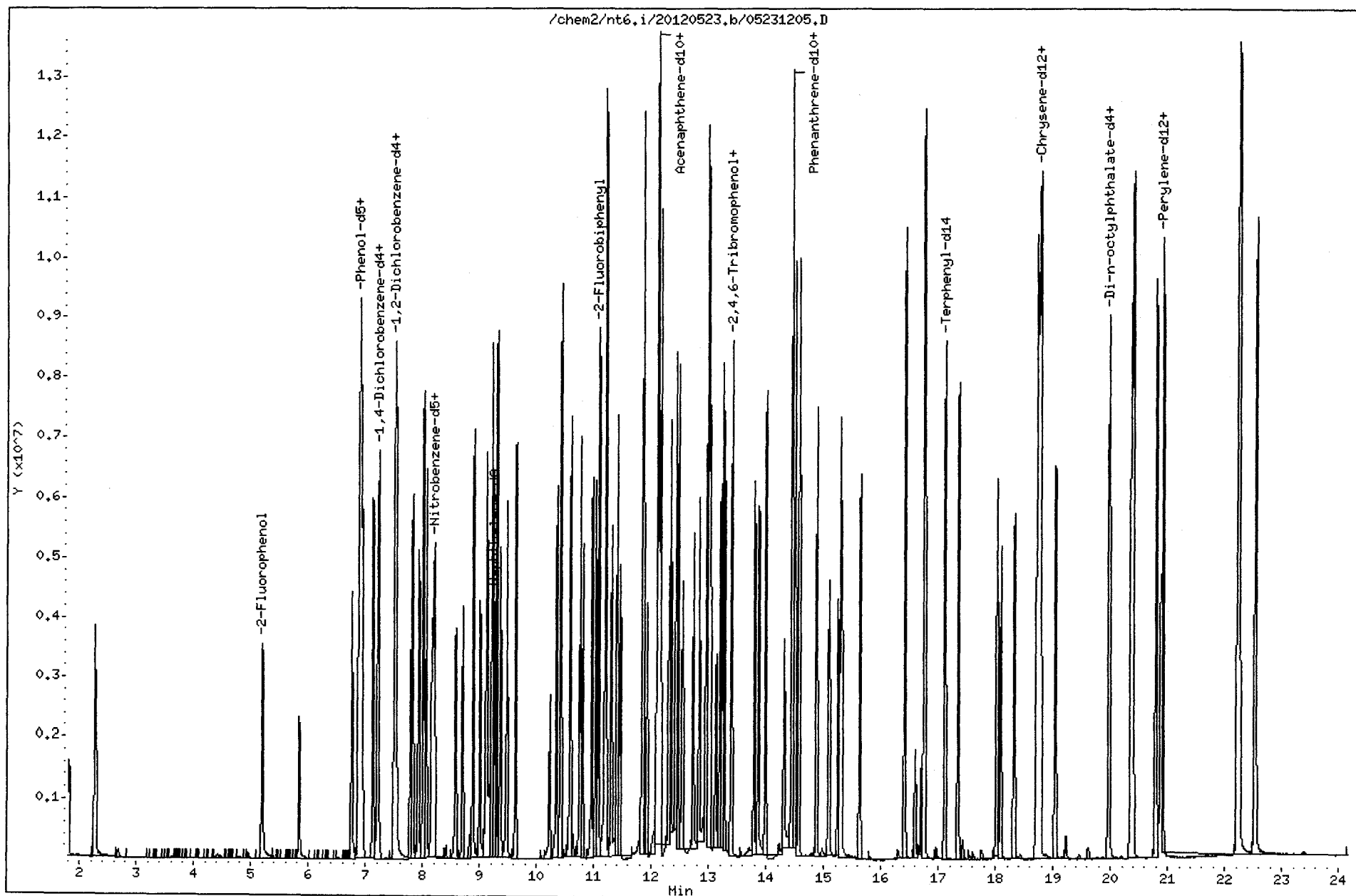
Sample Info: IC400523,

Instrument: nt6.i

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32



05231205.D

CO-ELUTION SUMMARY FOR FILE - 05231205.D

Lab ID: IC400523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231206.D
Lab Smp Id: IC600523 Client Smp ID: IC600523
Inj Date : 23-MAY-2012 16:22
Operator : JZ Inst ID: nt6.i
Smp Info : IC600523
Misc Info : 12-
Comment : 1ul Injection
Method : /chem2/nt6.i/20120523.b/SW846052312.m
Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
Cal Date : 23-MAY-2012 16:22 Cal File: 05231206.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

Handwritten signature and date: JZ 05/24/12

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|-------|---------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | 5.194 | 5.194 | (0.722) | 2956774 | 60.0000 | 62.10 |
| \$ 2 Phenol-d5 | 99 | 6.877 | 6.877 | (0.955) | 3400540 | 60.0000 | 59.88 |
| 3 Phenol | 94 | 6.893 | 6.894 | (0.958) | 3928058 | 60.0000 | 56.84 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.909 | 6.909 | (0.960) | 3278102 | 60.0000 | 59.56 |
| 4 Bis(2-Chloroethyl)ether | 93 | 6.904 | 6.899 | (0.959) | 2890831 | 60.0000 | 60.83 |
| 6 2-Chlorophenol | 128 | 6.936 | 6.936 | (0.964) | 3600037 | 60.0000 | 57.08 |
| 7 1,3-Dichlorobenzene | 146 | 7.128 | 7.129 | (0.990) | 3828610 | 60.0000 | 59.46 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.198 | 7.193 | (1.000) | 819323 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.219 | 7.220 | (1.003) | 3803175 | 60.0000 | 59.00 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.497 | 7.497 | (1.042) | 2351450 | 60.0000 | 58.58 |
| 12 1,2-Dichlorobenzene | 146 | 7.518 | 7.519 | (1.045) | 3667804 | 60.0000 | 59.56 |
| 11 Benzyl alcohol | 108 | 7.540 | 7.545 | (1.048) | 2320303 | 60.0000 | 65.98 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.785 | 7.791 | (1.082) | 3139262 | 60.0000 | 58.59 |
| 13 2-Methylphenol | 108 | 7.823 | 7.823 | (1.087) | 3045760 | 60.0000 | 58.03 |
| 17 Hexachloroethane | 117 | 8.004 | 8.005 | (1.112) | 1434373 | 60.0000 | 62.94 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.026 | 8.026 | (1.115) | 1927435 | 60.0000 | 60.07 |
| 15 4-Methylphenol | 108 | 8.068 | 8.069 | (1.121) | 3183271 | 60.0000 | 58.78 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.159 | 8.159 | (0.881) | 2775879 | 60.0000 | 58.37 |
| 19 Nitrobenzene | 77 | 8.186 | 8.187 | (0.884) | 2959374 | 60.0000 | 59.79 |
| 20 Isophorone | 82 | 8.587 | 8.593 | (0.927) | 4302671 | 60.0000 | 59.09 |
| 21 2-Nitrophenol | 139 | 8.704 | 8.710 | (0.940) | 2070676 | 60.0000 | 59.59 |
| 22 2,4-Dimethylphenol | 107 | 8.886 | 8.892 | (0.960) | 3041166 | 60.0000 | 58.13 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 9.009 | 9.009 | (0.973) | 3230992 | 60.0000 | 59.15 |
| 24 Benzoic acid | 105 | 9.265 | 9.303 | (1.001) | 3886060 | 120.0000 | 144.1 (M) |
| 25 2,4-Dichlorophenol | 162 | 9.121 | 9.121 | (0.985) | 3083001 | 60.0000 | 59.74 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.212 | 9.218 | (0.995) | 3301335 | 60.0000 | 59.50 |
| * 27 Naphthalene-d8 | 136 | 9.260 | 9.266 | (1.000) | 2967520 | 20.0000 | |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 9.292 | 9.298 | (1.003) | 7838365 | 60.0000 | 49.81 |
| 29 4-Chloroaniline | 127 | 9.473 | 9.479 | (1.023) | 3953770 | 60.0000 | 55.51 |
| 30 Hexachlorobutadiene | 225 | 9.628 | 9.629 | (1.040) | 2024817 | 60.0000 | 59.99 |
| 31 4-Chloro-3-methylphenol | 107 | 10.344 | 10.345 | (1.117) | 2381359 | 60.0000 | 57.70 |
| 32 2-Methylnaphthalene | 141 | 10.419 | 10.420 | (1.125) | 5239753 | 60.0000 | 54.33 |
| 33 Hexachlorocyclopentadiene | 237 | 10.798 | 10.799 | (0.892) | 2012913 | 60.0000 | 72.35 |
| 34 2,4,6-Trichlorophenol | 196 | 10.964 | 10.964 | (0.906) | 2364357 | 60.0000 | 64.91 |
| 35 2,4,5-Trichlorophenol | 196 | 11.028 | 11.029 | (0.911) | 2311637 | 60.0000 | 65.37 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.076 | 11.076 | (0.915) | 6084844 | 60.0000 | 56.02 |
| 37 2-Chloronaphthalene | 162 | 11.188 | 11.189 | (0.924) | 5725242 | 60.0000 | 60.09 |
| 38 2-Nitroaniline | 65 | 11.455 | 11.461 | (0.946) | 1473865 | 60.0000 | 64.38 |
| 39 Dimethylphthalate | 163 | 11.845 | 11.857 | (0.978) | 5540741 | 60.0000 | 57.24 |
| 40 Acenaphthylene | 152 | 11.856 | 11.862 | (0.979) | 7689688 | 60.0000 | 50.86 |
| 41 2,6-Dinitrotoluene | 165 | 11.931 | 11.937 | (0.985) | 1491506 | 60.0000 | 63.55 |
| * 42 Acenaphthene-d10 | 164 | 12.107 | 12.108 | (1.000) | 1788274 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.144 | 12.150 | (1.003) | 1562144 | 60.0000 | 56.83 |
| 44 Acenaphthene | 153 | 12.160 | 12.166 | (1.004) | 5486926 | 60.0000 | 55.99 |
| 45 2,4-Dinitrophenol | 184 | 12.310 | 12.316 | (1.017) | 2115908 | 120.0000 | 188.7 |
| 46 Dibenzofuran | 168 | 12.428 | 12.434 | (1.026) | 7353732 | 60.0000 | 51.67 |
| 47 4-Nitrophenol | 109 | 12.524 | 12.530 | (1.034) | 600385 | 60.0000 | 75.43 |
| 48 2,4-Dinitrotoluene | 165 | 12.550 | 12.556 | (1.037) | 1994502 | 60.0000 | 66.36 |
| 50 Diethylphthalate | 149 | 12.999 | 13.000 | (1.074) | 5339356 | 60.0000 | 57.96 |
| 49 Fluorene | 166 | 12.978 | 12.984 | (1.072) | 6378878 | 60.0000 | 55.76 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.021 | 13.027 | (1.075) | 3310547 | 60.0000 | 60.03 |
| 52 4-Nitroaniline | 138 | 13.138 | 13.149 | (1.085) | 1655901 | 60.0000 | 65.91 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.208 | 13.214 | (0.913) | 2873604 | 120.0000 | 134.4 |
| 54 N-Nitrosodiphenylamine | 169 | 13.245 | 13.251 | (0.916) | 4350924 | 60.0000 | 56.32 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.405 | 13.405 | (1.107) | 1499138 | 60.0000 | 64.59 |
| 56 4-Bromophenyl-phenylether | 248 | 13.790 | 13.790 | (0.953) | 2214504 | 60.0000 | 57.82 |
| 57 Hexachlorobenzene | 284 | 13.993 | 13.993 | (0.967) | 2769824 | 60.0000 | 57.78 |
| 58 Pentachlorophenol | 266 | 14.313 | 14.319 | (0.990) | 1388607 | 60.0000 | 86.87 |
| * 59 Phenanthrene-d10 | 188 | 14.463 | 14.464 | (1.000) | 2994128 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.500 | 14.506 | (1.003) | 8147753 | 60.0000 | 50.25 |
| 61 Anthracene | 178 | 14.575 | 14.581 | (1.008) | 8170789 | 60.0000 | 49.66 |
| 62 Carbazole | 167 | 14.880 | 14.886 | (1.029) | 6846062 | 60.0000 | 54.27 |
| 63 Di-n-butylphthalate | 149 | 15.633 | 15.633 | (1.081) | 7891320 | 60.0000 | 52.51 |
| 64 Fluoranthene | 202 | 16.418 | 16.419 | (1.135) | 8892009 | 60.0000 | 51.12 |
| 65 Pyrene | 202 | 16.760 | 16.766 | (0.894) | 9104006 | 60.0000 | 47.04 |
| \$ 66 Terphenyl-d14 | 244 | 17.113 | 17.113 | (0.913) | 6518441 | 60.0000 | 52.71 |
| 67 Butylbenzylphthalate | 149 | 18.021 | 18.027 | (0.962) | 4264986 | 60.0000 | 60.07 |
| 68 Benzo(a)anthracene | 228 | 18.715 | 18.721 | (0.999) | 9613519 | 60.0000 | 51.51 |
| * 69 Chrysene-d12 | 240 | 18.742 | 18.743 | (1.000) | 3573040 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.758 | 18.759 | (1.001) | 3963421 | 60.0000 | 54.76 |
| 71 Chrysene | 228 | 18.785 | 18.791 | (1.002) | 8946913 | 60.0000 | 49.98 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.036 | 19.036 | (0.953) | 5545804 | 60.0000 | 57.86 |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.971 | 19.971 | (1.000) | 3341643 | 20.0000 | |
| 73 Di-n-octylphthalate | 149 | 19.976 | 19.982 | (1.000) | 8402660 | 60.0000 | 51.82 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 20.366 | 20.377 | (0.975) | 10999133 | 60.0000 | 53.48 |
| 75 Benzo(k)fluoranthene | 252 | 20.398 | 20.377 | (0.977) | 8918556 | 60.0000 | 45.89 |
| 187 Total Benzofluoranthenes | 252 | 20.398 | 20.409 | (0.977) | 18765543 | 120.0000 | 99.69 |
| 76 Benzo(a)pyrene | 252 | 20.804 | 20.810 | (0.996) | 9473719 | 60.0000 | 53.10 |
| * 77 Perylene-d12 | 264 | 20.879 | 20.879 | (1.000) | 3676255 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.236 | 22.242 | (1.065) | 14535658 | 60.0000 | 55.88 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.262 | 22.274 | (1.066) | 11054120 | 60.0000 | 52.08 |
| 80 Benzo(g,h,i)perylene | 276 | 22.551 | 22.562 | (1.080) | 12099742 | 60.0000 | 54.77 |
| 90 N-Nitrosodimethylamine | 74 | 2.294 | 2.305 | (0.319) | 1747117 | 60.0000 | 61.27 |
| 103 Pyridine | 79 | 2.261 | 2.267 | (0.314) | 2993308 | 60.0000 | 62.85 |
| 91 Aniline | 93 | 6.765 | 6.760 | (0.940) | 4050777 | 60.0000 | 52.74 |
| 105 1-methylnaphthalene | 141 | 10.585 | 10.585 | (1.143) | 4117742 | 60.0000 | 55.96 |
| 93 Benzidine | 184 | 16.701 | 16.702 | (0.891) | 1704469 | 60.0000 | 40.37 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.272 | 13.278 | (1.096) | 5021280 | 60.0000 | 58.95 |
| 143 1,4-Dioxane | 88 | 1.813 | 1.819 | (0.252) | 1087827 | 60.0000 | 62.91 |
| § 137 d8-1,4-Dioxane | 96 | 1.781 | 1.781 | (0.247) | 1133956 | 60.0000 | 61.28 |
| 144 alpha-Terpineol | 59 | 9.361 | 9.362 | (1.011) | 1688773 | 60.0000 | 58.49 |
| 177 p-Benzoquinone | 82 | 5.841 | 5.836 | (0.631) | 546381 | 60.0000 | 66.88 |
| 98 Retene | 219 | 17.342 | 17.348 | (0.925) | 3990905 | 60.0000 | 59.38 |
| 99 Perylene | 252 | 20.922 | 20.928 | (1.002) | 8832709 | 60.0000 | 50.96 |
| 133 Butylatedhydroxytoluene | 205 | 12.331 | 12.337 | (1.019) | 4204761 | 60.0000 | 59.19 |
| 115 Tributyl Phosphate | 99 | 13.400 | 13.411 | (0.926) | 5237624 | 60.0000 | 57.71 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.093 | 15.105 | (1.044) | 4497490 | 60.0000 | 62.29 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.744 | 16.745 | (0.893) | 1345293 | 60.0000 | 62.30 |
| 118 Triphenyl Phosphate | 326 | 18.325 | 18.326 | (0.978) | 2590268 | 60.0000 | 62.25 |
| 123 Acetophenone | 105 | 7.930 | 7.935 | (1.102) | 3882826 | 60.0000 | 59.87 |
| 168 Pentachlorobenzene | 250 | 12.465 | 12.471 | (1.030) | 2803334 | 60.0000 | 59.79 |
| 113 Diphenyl Oxide | 170 | 11.402 | 11.403 | (0.942) | 3874868 | 60.0000 | 58.58 |
| 112 Biphenyl | 154 | 11.204 | 11.205 | (0.925) | 5482305 | 60.0000 | 53.53 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.732 | 12.733 | (1.052) | 1758979 | 60.0000 | 70.53 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.755 | 10.756 | (0.888) | 3049881 | 60.0000 | 62.19 |
| 110 Tetrachloroguaiacol | 247 | 14.447 | 14.453 | (0.999) | 2661334 | 120.0000 | 135.6 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.834 | 12.840 | (0.887) | 1232088 | 60.0000 | 62.43 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.951 | 12.952 | (1.799) | 1435026 | 60.0000 | 61.52 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.865 | 13.871 | (1.145) | 1279705 | 60.0000 | 65.93 |
| 184 3,4-Dichloroguaiacol | 192 | 11.300 | 11.306 | (1.570) | 1254053 | 60.0000 | 60.00 |
| 107 4,5-Dichloroguaiacol | 192 | 12.102 | 12.108 | (1.000) | 3076819 | 120.0000 | 121.7 |
| 182 4,6-Dichloroguaiacol | 192 | 12.102 | 12.108 | (1.681) | 3031784 | 120.0000 | 115.0 |
| 185 4-Chloroguaiacol | 115 | 10.232 | 10.233 | (1.422) | 590509 | 30.0000 | 29.29 |
| 186 Carbaryl | 144 | 15.312 | 15.324 | (1.059) | 4760949 | 60.0000 | 65.49 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.286 | 15.297 | (1.057) | 2183513 | 60.0000 | 68.66 |
| 106 Guaiacol | 124 | 8.213 | 8.213 | (1.141) | 2559585 | 60.0000 | 61.46 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231206.D
 Lab Smp Id: IC600523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC600523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 819323 | -14.99 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 2967520 | -13.50 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1788274 | -20.84 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 2994128 | -13.13 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3573040 | -9.81 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3341643 | -11.10 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3676255 | -11.50 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.20 | 0.10 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | 0.02 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.01 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.05 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.74 | 0.04 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.97 | 0.04 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.88 | 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.

Date : 23-MAY-2012 16:22

Client ID: IC600523

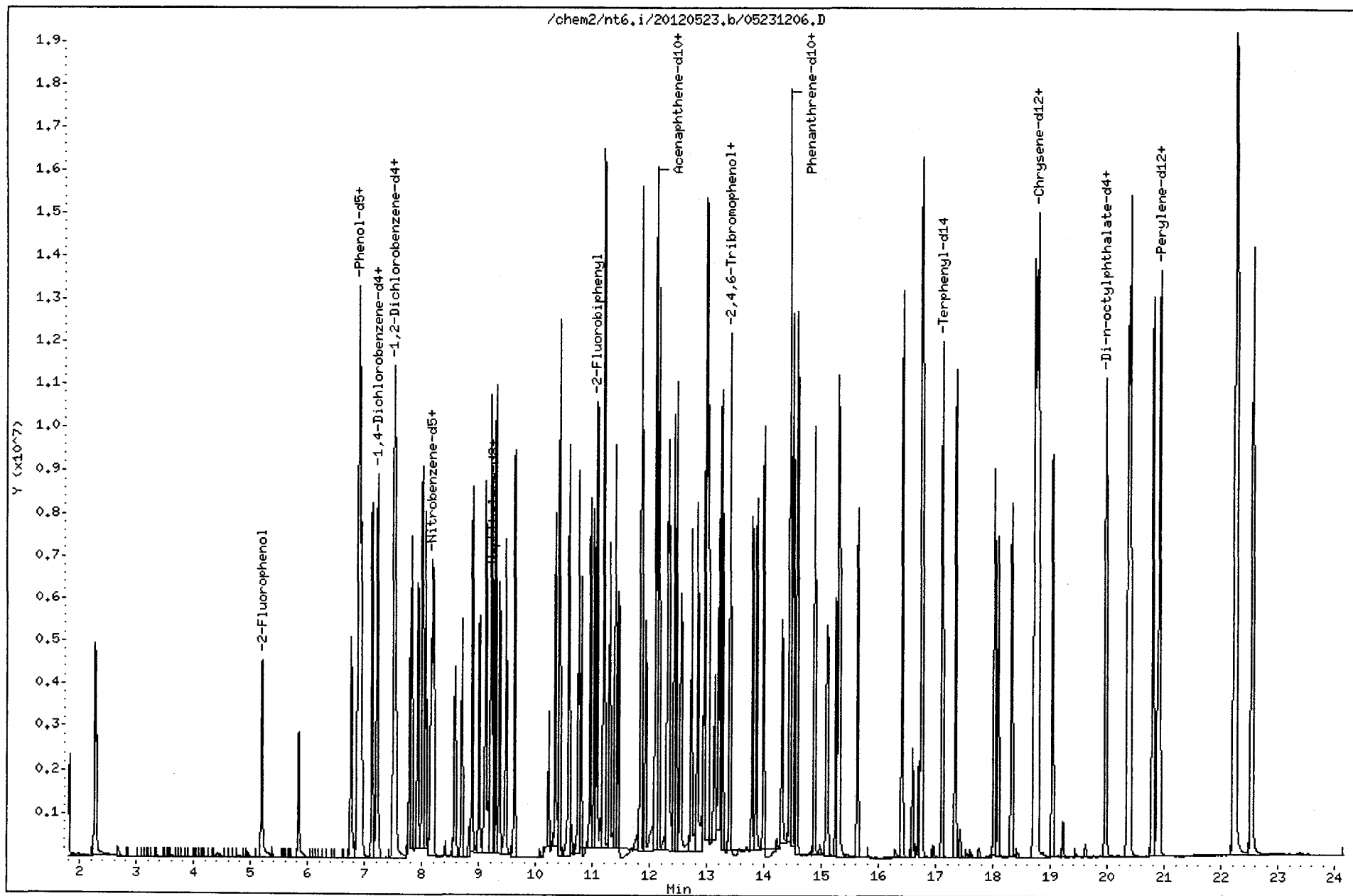
Sample Info: IC600523

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32

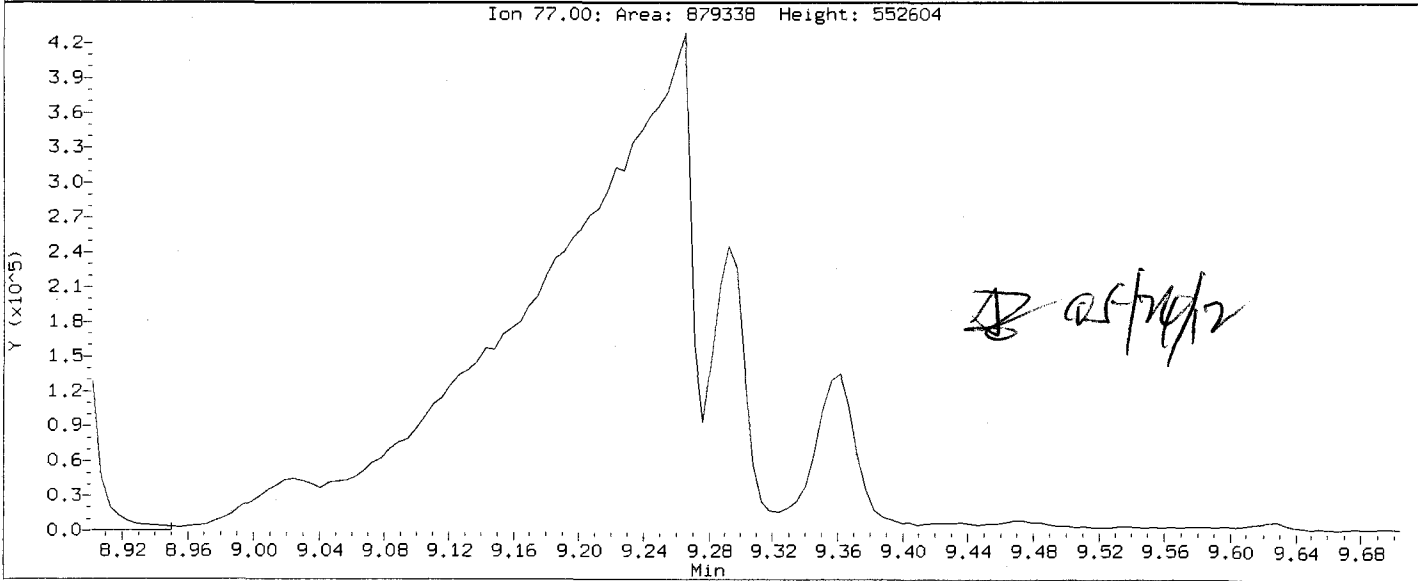
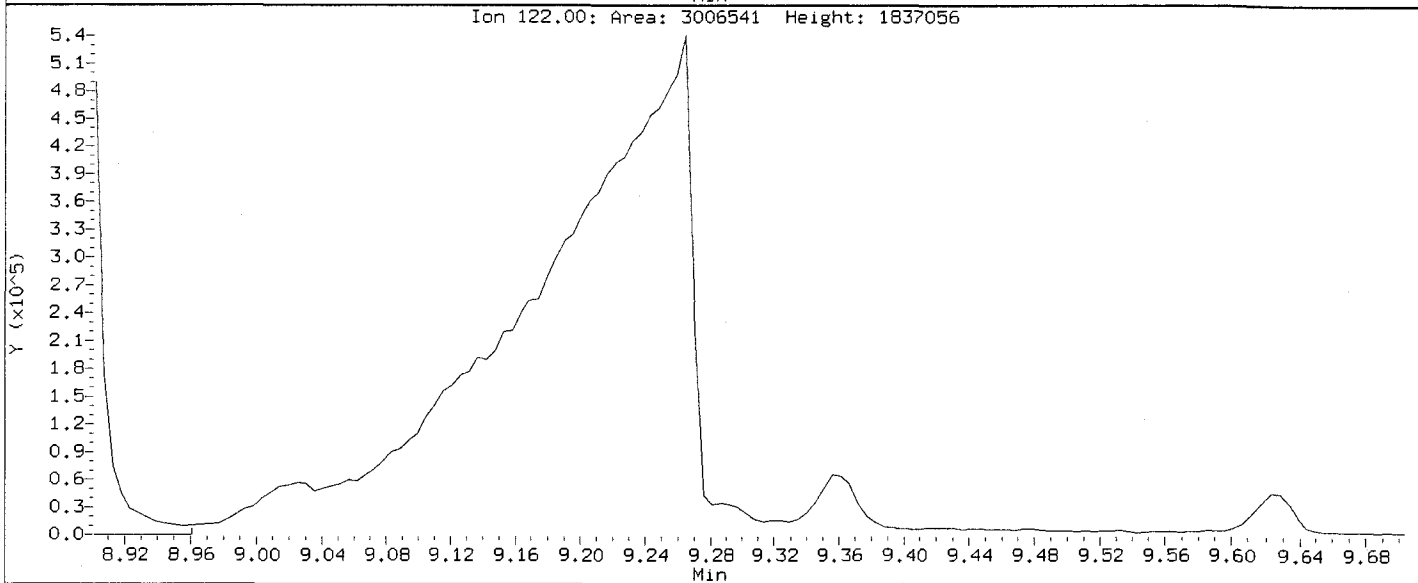
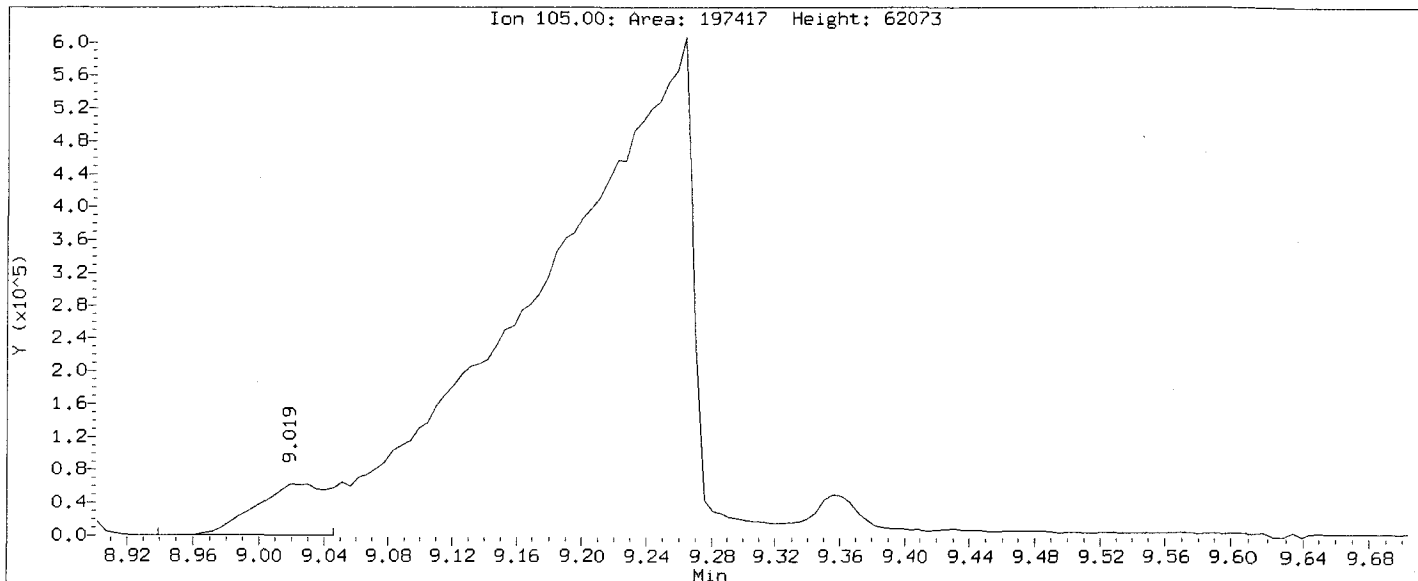
Column phase: ZB-5msi



05231206.D

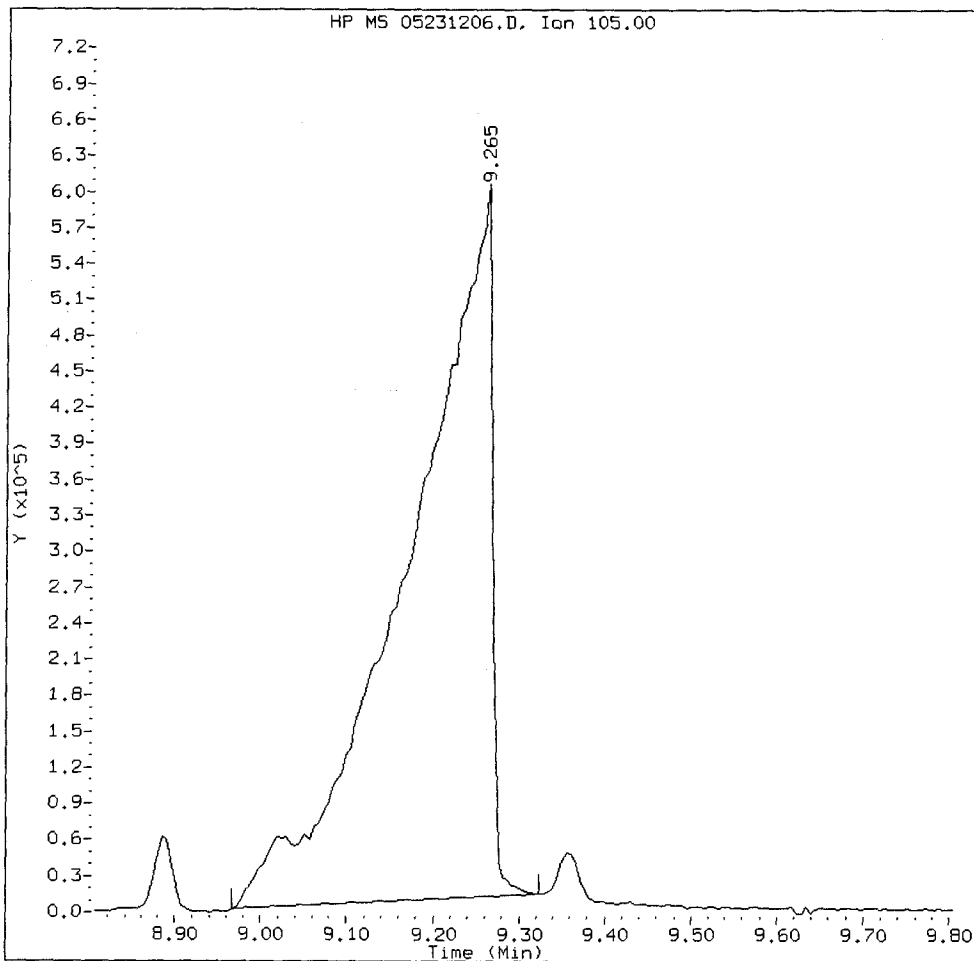
Data File: /chem2/nt6.i/20120523.b/05231206.D
Injection Date: 23-MAY-2012 16:22
Instrument: nt6.i
Client Sample ID: IC600523

Compound: Benzoic acid
CAS Number: 65-85-0



IC600523, /chem2/nt6.i/20120523.b/05231206.D

Benzoic acid Amount: 144.07 Area: 3886060



MANUAL INTEGRATION for Benzoic acid

1. Baseline correction
- ②. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: *D*

Date: *05/24/12*

CO-ELUTION SUMMARY FOR FILE - 05231206.D

Lab ID: IC600523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231207.D
 Lab Smp Id: IC800523 Client Smp ID: IC800523
 Inj Date : 23-MAY-2012 16:56
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC800523,
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 12:56 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALS.sub
 Target Version: 3.50

Handwritten initials/signature

| Compounds | QUANT | SIG | AMOUNTS | | | | | |
|---------------------------------|-------|------|------------------------|-------|---------|---------|----------|-----------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) |
| ----- | ---- | ---- | ----- | ----- | ----- | ----- | ----- | ----- |
| \$ 1 2-Fluorophenol | 112 | | Compound Not Detected. | | | | | |
| \$ 2 Phenol-d5 | 99 | | Compound Not Detected. | | | | | |
| 3 Phenol | 94 | | 6.894 | 6.894 | (0.958) | 4955898 | 80.0000 | 71.01 |
| \$ 5 2-Chlorophenol-d4 | 132 | | Compound Not Detected. | | | | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 6.899 | 6.899 | (0.959) | 3671832 | 80.0000 | 75.77 |
| 6 2-Chlorophenol | 128 | | 6.936 | 6.936 | (0.964) | 4527563 | 80.0000 | 71.07 |
| 7 1,3-Dichlorobenzene | 146 | | 7.129 | 7.129 | (0.991) | 4778971 | 80.0000 | 73.17 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 7.193 | 7.193 | (1.000) | 842934 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | | 7.220 | 7.220 | (1.004) | 4722377 | 80.0000 | 72.35 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | Compound Not Detected. | | | | | |
| 12 1,2-Dichlorobenzene | 146 | | 7.519 | 7.519 | (1.045) | 4580662 | 80.0000 | 73.31 |
| 11 Benzyl alcohol | 108 | | 7.545 | 7.545 | (1.049) | 3039997 | 80.0000 | 83.42 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | | 7.791 | 7.791 | (1.083) | 3980410 | 80.0000 | 73.23 |
| 13 2-Methylphenol | 108 | | 7.823 | 7.823 | (1.088) | 3901294 | 80.0000 | 73.26 |
| 17 Hexachloroethane | 117 | | 8.005 | 8.005 | (1.113) | 1837842 | 80.0000 | 78.62 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 8.026 | 8.026 | (1.116) | 2480871 | 80.0000 | 75.81 |
| 15 4-Methylphenol | 108 | | 8.069 | 8.069 | (1.122) | 4050882 | 80.0000 | 73.67 |
| \$ 18 Nitrobenzene-d5 | 82 | | Compound Not Detected. | | | | | |
| 19 Nitrobenzene | 77 | | 8.187 | 8.187 | (0.884) | 3752174 | 80.0000 | 74.08 |
| 20 Isophorone | 82 | | 8.593 | 8.593 | (0.927) | 5518208 | 80.0000 | 74.07 |
| 21 2-Nitrophenol | 139 | | 8.710 | 8.710 | (0.940) | 2687169 | 80.0000 | 75.38 |
| 22 2,4-Dimethylphenol | 107 | | 8.892 | 8.892 | (0.960) | 3861146 | 80.0000 | 72.38 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 9.009 | 9.009 | (0.972) | 4129182 | 80.0000 | 73.91 |
| 24 Benzoic acid | 105 | | 9.303 | 9.303 | (1.004) | 5209192 | 160.0000 | 181.5 (M) |
| 25 2,4-Dichlorophenol | 162 | | 9.121 | 9.121 | (0.984) | 3922797 | 80.0000 | 74.26 |
| 26 1,2,4-Trichlorobenzene | 180 | | 9.218 | 9.218 | (0.995) | 4181022 | 80.0000 | 73.70 |
| * 27 Naphthalene-d8 | 136 | | 9.266 | 9.266 | (1.000) | 3073829 | 20.0000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | | |
|-------------------------------|-----------|------------------------|--------|---------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| 28 Naphthalene | 128 | 9.298 | 9.298 | (1.003) | 9277135 | 80.0000 | 59.36 | |
| 29 4-Chloroaniline | 127 | 9.479 | 9.479 | (1.023) | 5001026 | 80.0000 | 69.30 | |
| 30 Hexachlorobutadiene | 225 | 9.629 | 9.629 | (1.039) | 2615179 | 80.0000 | 75.50 | |
| 31 4-Chloro-3-methylphenol | 107 | 10.345 | 10.345 | (1.116) | 3134300 | 80.0000 | 74.20 | |
| 32 2-Methylnaphthalene | 141 | 10.420 | 10.420 | (1.125) | 6448175 | 80.0000 | 66.38 | |
| 33 Hexachlorocyclopentadiene | 237 | 10.799 | 10.799 | (0.892) | 2554079 | 80.0000 | 85.07 | |
| 34 2,4,6-Trichlorophenol | 196 | 10.964 | 10.964 | (0.906) | 3245825 | 80.0000 | 83.10 | |
| 35 2,4,5-Trichlorophenol | 196 | 11.029 | 11.029 | (0.911) | 3045276 | 80.0000 | 80.70 | |
| \$ 36 2-Fluorobiphenyl | 172 | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | 11.189 | 11.189 | (0.924) | 6973674 | 80.0000 | 70.12 | |
| 38 2-Nitroaniline | 65 | 11.461 | 11.461 | (0.947) | 1965243 | 80.0000 | 80.48 | |
| 39 Dimethylphthalate | 163 | 11.857 | 11.857 | (0.979) | 7036877 | 80.0000 | 69.69 | |
| 40 Acenaphthylene | 152 | 11.862 | 11.862 | (0.980) | 9821885 | 80.0000 | 63.11 | |
| 41 2,6-Dinitrotoluene | 165 | 11.937 | 11.937 | (0.986) | 1984785 | 80.0000 | 79.46 | |
| * 42 Acenaphthene-d10 | 164 | 12.108 | 12.108 | (1.000) | 1905330 | 20.0000 | | |
| 43 3-Nitroaniline | 138 | 12.150 | 12.150 | (1.004) | 1944636 | 80.0000 | 68.05 | |
| 44 Acenaphthene | 153 | 12.166 | 12.166 | (1.005) | 6732525 | 80.0000 | 64.48 | |
| 45 2,4-Dinitrophenol | 184 | 12.316 | 12.316 | (1.017) | 2924612 | 160.0000 | 224.9 | |
| 46 Dibenzofuran | 168 | 12.434 | 12.434 | (1.027) | 9122335 | 80.0000 | 62.37 | |
| 47 4-Nitrophenol | 109 | 12.530 | 12.530 | (1.035) | 794628 | 80.0000 | 91.10 | |
| 48 2,4-Dinitrotoluene | 165 | 12.556 | 12.556 | (1.037) | 2656847 | 80.0000 | 82.53 | |
| 50 Diethylphthalate | 149 | 13.000 | 13.000 | (1.074) | 6760243 | 80.0000 | 70.28 | |
| 49 Fluorene | 166 | 12.984 | 12.984 | (1.072) | 7879360 | 80.0000 | 66.47 | |
| 51 4-Chlorophenyl-phenylether | 204 | 13.027 | 13.027 | (1.076) | 4355683 | 80.0000 | 74.92 | |
| 52 4-Nitroaniline | 138 | 13.149 | 13.149 | (1.086) | 2209240 | 80.0000 | 82.16 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.214 | 13.214 | (0.914) | 3817906 | 160.0000 | 167.4 | |
| 54 N-Nitrosodiphenylamine | 169 | 13.251 | 13.251 | (0.916) | 5469187 | 80.0000 | 68.61 | |
| \$ 55 2,4,6-Tribromophenol | 330 | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | 13.790 | 13.790 | (0.953) | 2915944 | 80.0000 | 73.11 | |
| 57 Hexachlorobenzene | 284 | 13.993 | 13.993 | (0.967) | 3595757 | 80.0000 | 72.16 | |
| 58 Pentachlorophenol | 266 | 14.319 | 14.319 | (0.990) | 1862334 | 80.0000 | 103.7 | |
| * 59 Phenanthrene-d10 | 188 | 14.464 | 14.464 | (1.000) | 3163164 | 20.0000 | | |
| 60 Phenanthrene | 178 | 14.506 | 14.506 | (1.003) | 9874928 | 80.0000 | 60.05 | |
| 61 Anthracene | 178 | 14.581 | 14.581 | (1.008) | 9611692 | 80.0000 | 57.84 | |
| 62 Carbazole | 167 | 14.886 | 14.886 | (1.029) | 8265913 | 80.0000 | 64.08 | |
| 63 Di-n-butylphthalate | 149 | 15.633 | 15.633 | (1.081) | 9209998 | 80.0000 | 60.38 | |
| 64 Fluoranthene | 202 | 16.419 | 16.419 | (1.135) | 10329585 | 80.0000 | 58.71 | |
| 65 Pyrene | 202 | 16.766 | 16.766 | (0.895) | 10702900 | 80.0000 | 56.47 | |
| \$ 66 Terphenyl-d14 | 244 | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | 18.027 | 18.027 | (0.962) | 5307057 | 80.0000 | 73.72 | |
| 68 Benzo(a)anthracene | 228 | 18.721 | 18.721 | (0.999) | 11497534 | 80.0000 | 59.97 | |
| * 69 Chrysene-d12 | 240 | 18.743 | 18.743 | (1.000) | 3670223 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.759 | 18.759 | (1.001) | 4884408 | 80.0000 | 67.42 | |
| 71 Chrysene | 228 | 18.791 | 18.791 | (1.003) | 10366319 | 80.0000 | 58.85 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.036 | 19.036 | (0.953) | 6768668 | 80.0000 | 70.29 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.971 | 19.971 | (1.000) | 3425170 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | 19.982 | 19.982 | (1.001) | 9866823 | 80.0000 | 61.64 | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | |
| 74 Benzo(b)fluoranthene | 252 | 20.377 | 20.377 | (0.976) | 13059010 | 80.0000 | 62.21 |
| 75 Benzo(k)fluoranthene | 252 | 20.377 | 20.377 | (0.976) | 13059010 | 80.0000 | 65.40 |
| 187 Total Benzofluoranthenes | 252 | 20.409 | 20.409 | (0.977) | 21895322 | 160.0000 | 115.0 |
| 76 Benzo(a)pyrene | 252 | 20.810 | 20.810 | (0.997) | 11418220 | 80.0000 | 62.64 |
| * 77 Perylene-d12 | 264 | 20.879 | 20.879 | (1.000) | 3891837 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.242 | 22.242 | (1.065) | 18145070 | 80.0000 | 67.59 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.274 | 22.274 | (1.067) | 13009482 | 80.0000 | 60.27 |
| 80 Benzo(g,h,i)perylene | 276 | 22.562 | 22.562 | (1.081) | 14549710 | 80.0000 | 64.25 |
| 90 N-Nitrosodimethylamine | 74 | 2.305 | 2.305 | (0.320) | 2245345 | 80.0000 | 77.01 |
| 103 Pyridine | 79 | 2.267 | 2.267 | (0.315) | 3761264 | 80.0000 | 77.21 |
| 91 Aniline | 93 | 6.760 | 6.760 | (0.940) | 5071601 | 80.0000 | 66.05 |
| 105 1-methylnaphthalene | 141 | 10.585 | 10.585 | (1.142) | 5209179 | 80.0000 | 69.80 |
| 93 Benzidine | 184 | 16.702 | 16.702 | (0.891) | 2105024 | 80.0000 | 51.94 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.278 | 13.278 | (1.097) | 6380123 | 80.0000 | 71.54 |
| 143 1,4-Dioxane | 88 | 1.819 | 1.819 | (0.253) | 1359577 | 80.0000 | 76.92 |
| § 137 d8-1,4-Dioxane | 96 | 1.781 | 1.781 | (0.248) | 1422459 | 80.0000 | 75.42 |
| 144 alpha-Terpineol | 59 | 9.362 | 9.362 | (1.010) | 2177756 | 80.0000 | 73.76 |
| 177 p-Benzoquinone | 82 | 5.836 | 5.836 | (0.630) | 663286 | 80.0000 | 78.64 |
| 98 Retene | 219 | 17.348 | 17.348 | (0.926) | 4977123 | 80.0000 | 73.12 |
| 99 Perylene | 252 | 20.928 | 20.928 | (1.002) | 10630741 | 80.0000 | 60.32 |
| 133 Butylatedhydroxytoluene | 205 | 12.337 | 12.337 | (1.019) | 5316083 | 80.0000 | 71.48 |
| 115 Tributyl Phosphate | 99 | 13.411 | 13.411 | (0.927) | 6493373 | 80.0000 | 69.25 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.105 | 15.105 | (1.044) | 5820694 | 80.0000 | 76.82 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.745 | 16.745 | (0.893) | 1711752 | 80.0000 | 77.57 |
| 118 Triphenyl Phosphate | 326 | 18.326 | 18.326 | (0.978) | 3276771 | 80.0000 | 77.12 |
| 123 Acetophenone | 105 | 7.935 | 7.935 | (1.103) | 4937041 | 80.0000 | 74.80 |
| 168 Pentachlorobenzene | 250 | 12.471 | 12.471 | (1.030) | 3691750 | 80.0000 | 74.71 |
| 113 Diphenyl Oxide | 170 | 11.403 | 11.403 | (0.942) | 5205718 | 80.0000 | 74.68 |
| 112 Biphenyl | 154 | 11.205 | 11.205 | (0.925) | 7185318 | 80.0000 | 67.56 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.733 | 12.733 | (1.052) | 2353213 | 80.0000 | 87.23 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.756 | 10.756 | (0.888) | 3889870 | 80.0000 | 75.19 |
| 110 Tetrachloroguaiacol | 247 | 14.453 | 14.453 | (0.999) | 3543072 | 160.0000 | 169.3 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.840 | 12.840 | (0.888) | 1646147 | 80.0000 | 79.10 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.952 | 12.952 | (1.801) | 2008845 | 80.0000 | 83.16 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.871 | 13.871 | (1.146) | 1712982 | 80.0000 | 82.42 |
| 184 3,4-Dichloroguaiacol | 192 | 11.306 | 11.306 | (1.572) | 1693440 | 80.0000 | 78.93 |
| 107 4,5-Dichloroguaiacol | 192 | 12.108 | 12.108 | (1.000) | 4083699 | 160.0000 | 152.7 |
| 182 4,6-Dichloroguaiacol | 192 | 12.108 | 12.108 | (1.683) | 4028104 | 160.0000 | 150.1 |
| 185 4-Chloroguaiacol | 115 | 10.233 | 10.233 | (1.423) | 842811 | 40.0000 | 40.55 |
| 186 Carbaryl | 144 | 15.324 | 15.324 | (1.059) | 6019585 | 80.0000 | 78.61 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.297 | 15.297 | (1.058) | 2865577 | 80.0000 | 84.50 |
| 106 Guaiacol | 124 | 8.213 | 8.213 | (1.142) | 3293719 | 80.0000 | 77.31 |

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231207.D
 Lab Smp Id: IC800523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: IC800523
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 842934 | -12.54 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3073829 | -10.40 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1905330 | -15.66 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3163164 | -8.23 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3670223 | -7.35 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3425170 | -8.87 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3891837 | -6.31 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.03 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.27 | 0.08 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.02 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.05 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.74 | 0.04 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.97 | 0.04 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.88 | 0.04 |

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.

Date : 23-MAY-2012 16:56

Client ID: IC800523

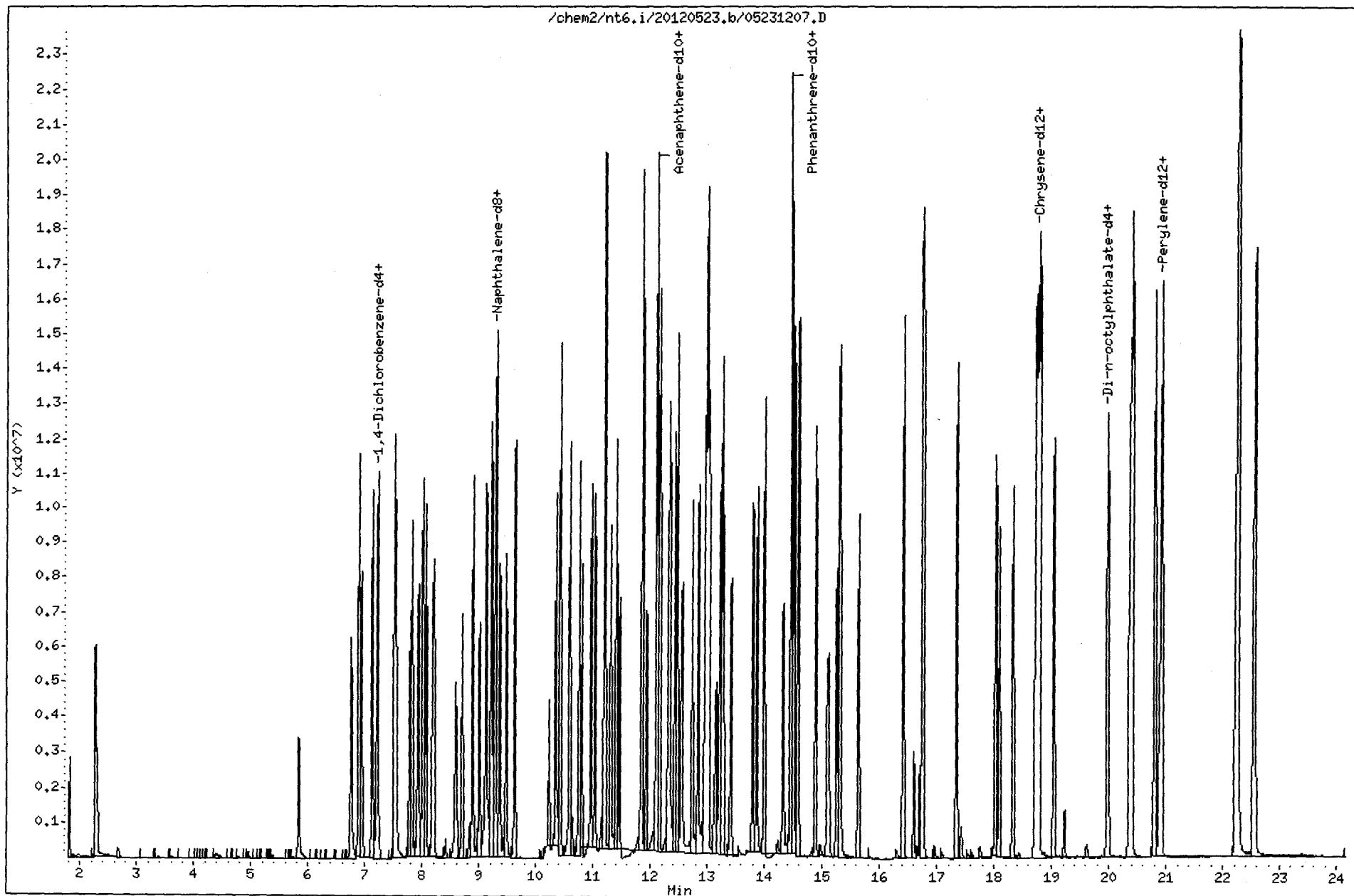
Sample Info: IC800523,

Instrument: nt6.i

Operator: JZ

Column phase: ZB-5msi

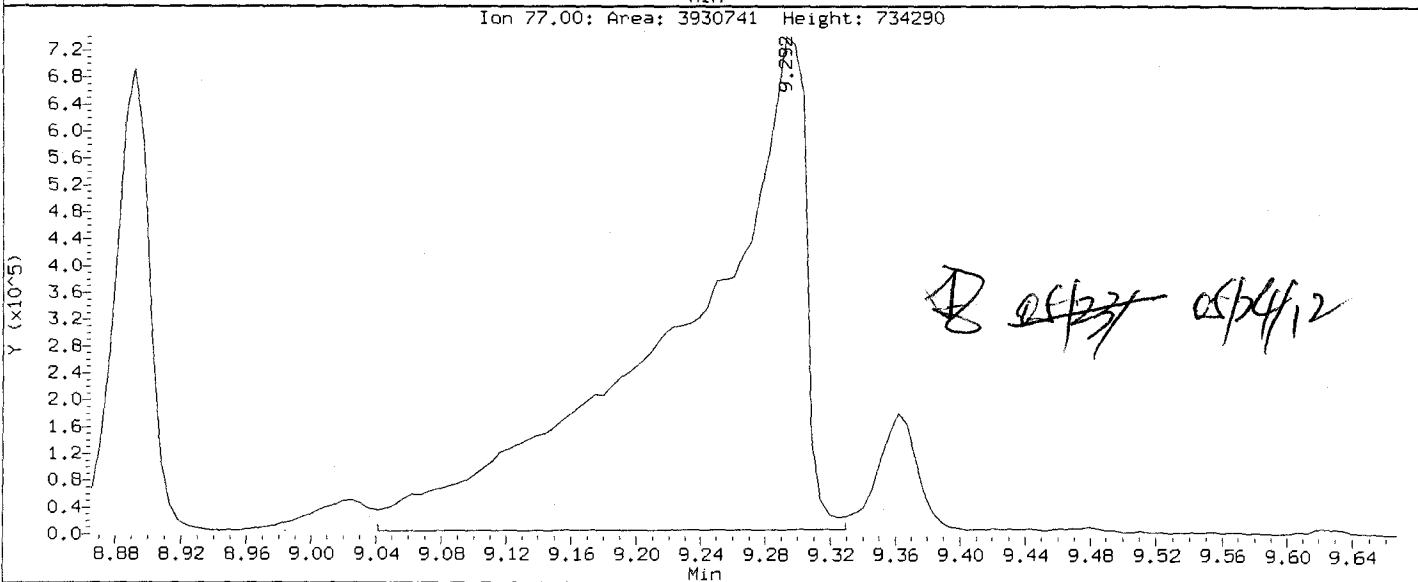
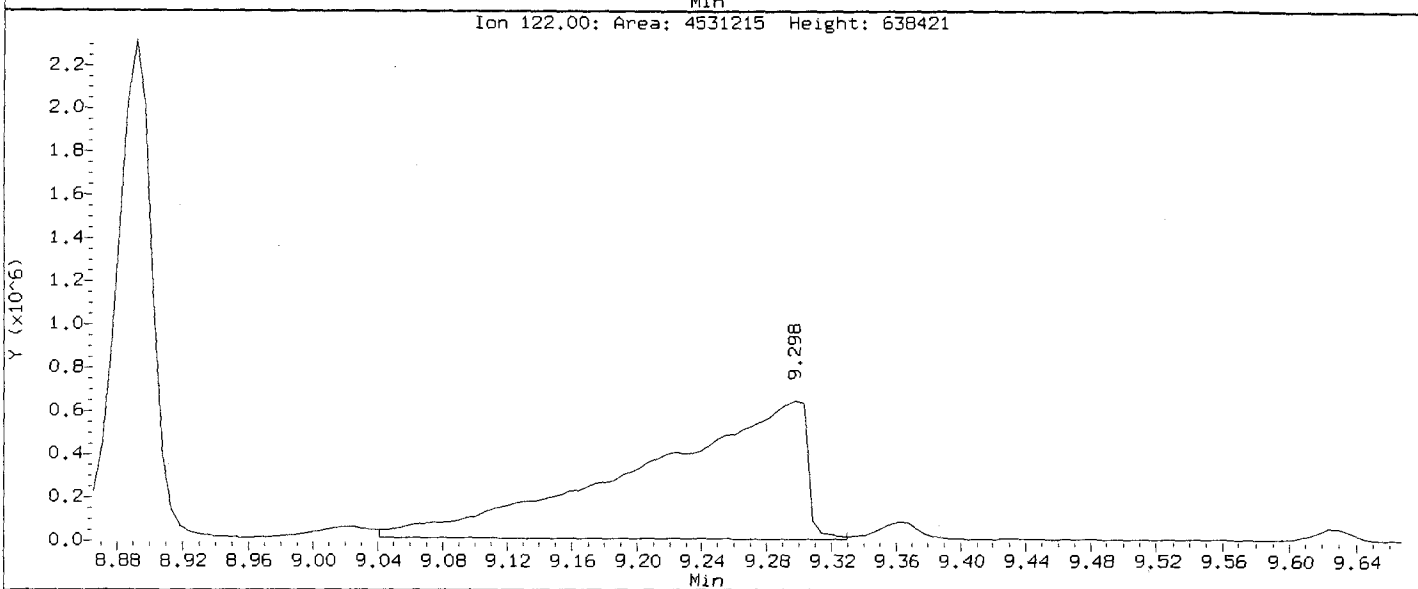
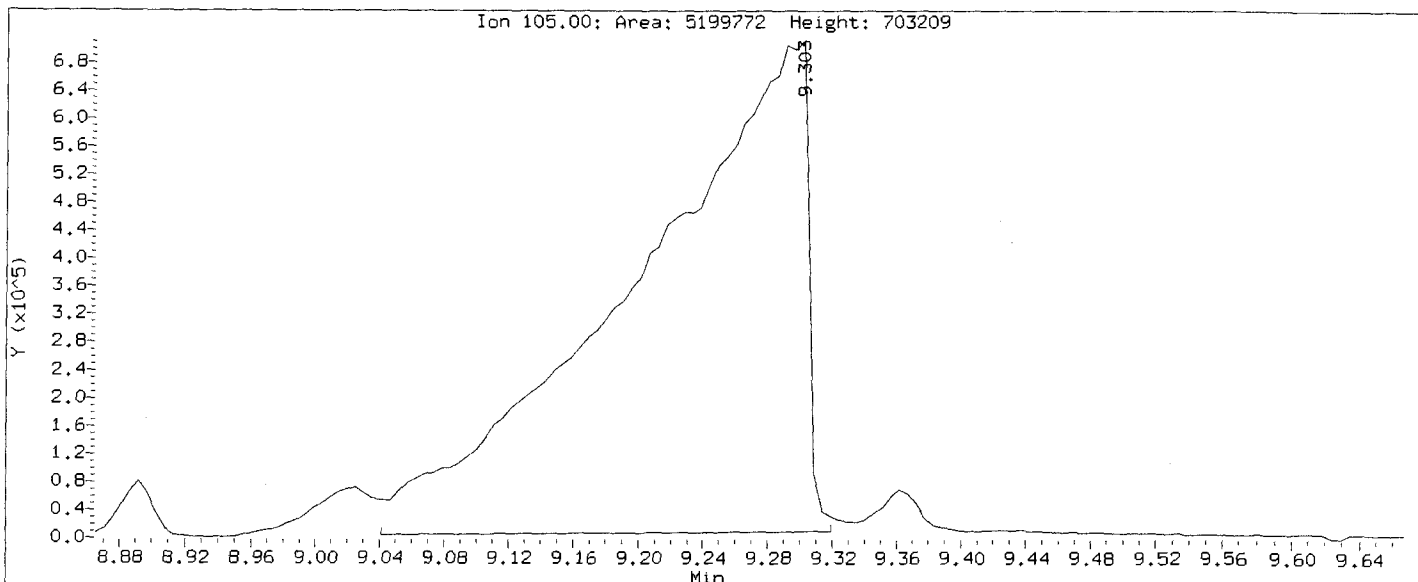
Column diameter: 0.32



0052:00603

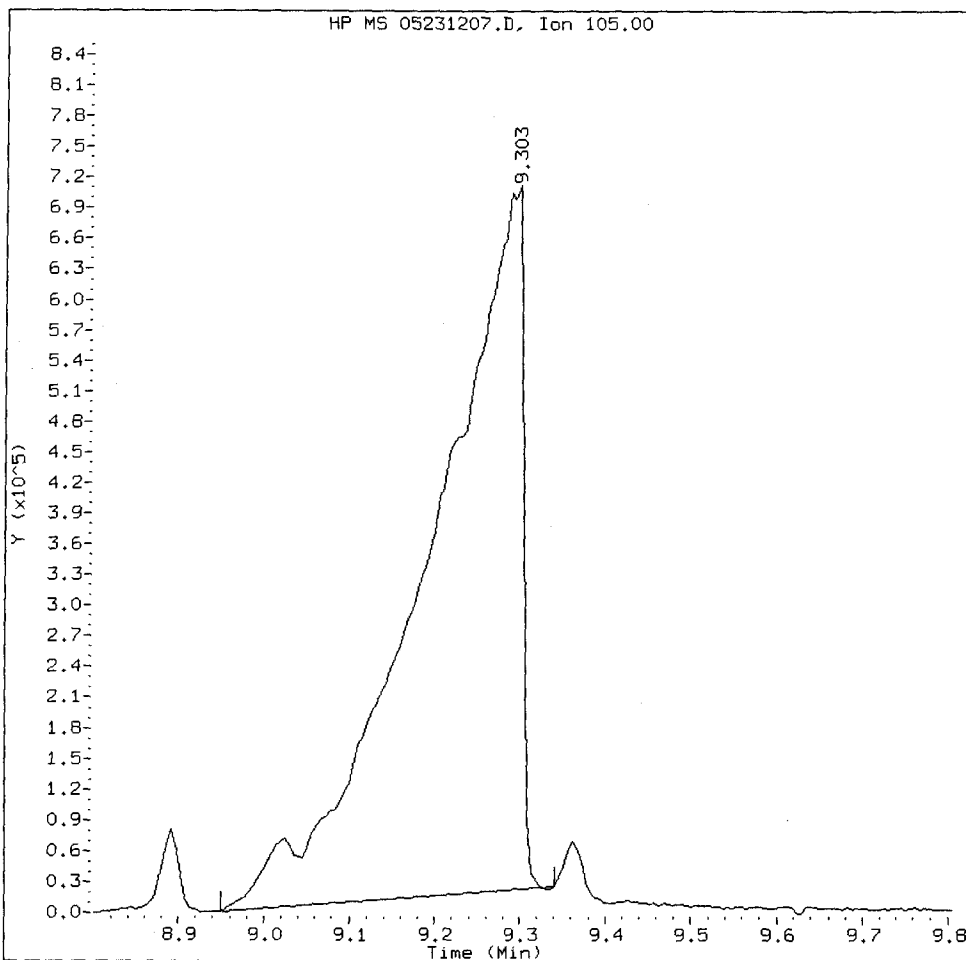
Data File: /chem2/nt6.i/20120523.b/05231207.D
Injection Date: 23-MAY-2012 16:56
Instrument: nt6.i
Client Sample ID: IC800523

Compound: Benzoic acid
CAS Number: 65-85-0



UU52: 00604

Benzoic acid Amount: 181.45 Area: 5209192



MANUAL INTEGRATION for Benzoic acid

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: AD

Date: 05/24/12

CO-ELUTION SUMMARY FOR FILE - 05231207.D

Lab ID: IC800523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120523.b/05231209.D
 Lab Smp Id: ICV0523 Client Smp ID: ICV0523
 Inj Date : 23-MAY-2012 20:29
 Operator : JZ Inst ID: nt6.i
 Smp Info : ICV0523
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120523.b/SW846052312.m
 Meth Date : 24-May-2012 13:31 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 9 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALS.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|-------|--------|---------|----------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.187 | 5.187 | (0.721) | 1179238 | 24.4979 | 24.50 |
| \$ 2 Phenol-d5 | 99 | 6.865 | 6.870 | (0.955) | 1360701 | 23.7012 | 23.70 |
| 3 Phenol | 94 | 6.886 | 6.886 | (0.958) | 1488556 | 21.7070 | 21.71 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.907 | 6.907 | (0.961) | 1322938 | 23.7765 | 23.78 |
| 4 Bis(2-Chloroethyl)ether | 93 | 6.897 | 6.897 | (0.959) | 1165628 | 24.4781 | 24.48 |
| 6 2-Chlorophenol | 128 | 6.934 | 6.934 | (0.964) | 1343142 | 21.4562 | 21.46 |
| 7 1,3-Dichlorobenzene | 146 | 7.126 | 7.121 | (0.991) | 1425025 | 22.2050 | 22.20 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.191 | 7.191 | (1.000) | 828280 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.217 | 7.217 | (1.004) | 1446627 | 22.5543 | 22.55 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.495 | 7.495 | (1.042) | 948325 | 23.3700 | 23.37 |
| 12 1,2-Dichlorobenzene | 146 | 7.516 | 7.516 | (1.045) | 1370178 | 22.3159 | 22.32 |
| 11 Benzyl alcohol | 108 | 7.527 | 7.532 | (1.047) | 668735 | 18.6751 | 18.68 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.784 | 7.784 | (1.082) | 1335478 | 25.0046 | 25.00 |
| 13 2-Methylphenol | 108 | 7.816 | 7.816 | (1.087) | 1172729 | 22.4121 | 22.41 |
| 17 Hexachloroethane | 117 | 8.003 | 8.003 | (1.113) | 514726 | 22.4078 | 22.41 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.008 | 8.008 | (1.114) | 758128 | 23.5761 | 23.58 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|-------------------------------|-----------|--------|--------|---------|----------------|-------------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | 8.056 | 8.056 | (1.120) | 1208409 | 22.3646 | 22.36 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.152 | 8.152 | (0.881) | 1146008 | 23.6970 | 23.70 |
| 19 Nitrobenzene | 77 | 8.179 | 8.179 | (0.883) | 1100099 | 22.1258 | 22.13 |
| 20 Isophorone | 82 | 8.574 | 8.574 | (0.926) | 1864525 | 25.4934 | 25.49 |
| 21 2-Nitrophenol | 139 | 8.702 | 8.702 | (0.940) | 728922 | 20.8291 | 20.83 |
| 22 2,4-Dimethylphenol | 107 | 8.879 | 8.879 | (0.959) | 1126844 | 21.5187 | 21.52 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 9.002 | 9.002 | (0.972) | 1238273 | 22.5768 | 22.58 |
| 24 Benzoic acid | 105 | 9.188 | 9.188 | (0.992) | 1468131 | 45.3154 | 45.32 |
| 25 2,4-Dichlorophenol | 162 | 9.114 | 9.114 | (0.984) | 1104495 | 21.3002 | 21.30 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.210 | 9.210 | (0.995) | 1213981 | 21.7997 | 21.80 |
| * 27 Naphthalene-d8 | 136 | 9.258 | 9.258 | (1.000) | 3017500 | 20.0000 | |
| 28 Naphthalene | 128 | 9.290 | 9.290 | (1.003) | 3364324 | 21.9298 | 21.93 |
| 29 4-Chloroaniline | 127 | 9.466 | 9.466 | (1.022) | 1302302 | 18.3824 | 18.38 |
| 30 Hexachlorobutadiene | 225 | 9.627 | 9.627 | (1.040) | 739476 | 21.7470 | 21.75 |
| 31 4-Chloro-3-methylphenol | 107 | 10.337 | 10.337 | (1.117) | 923488 | 22.2711 | 22.27 |
| 32 2-Methylnaphthalene | 141 | 10.412 | 10.412 | (1.125) | 1719178 | 18.0270 | 18.03 |
| 33 Hexachlorocyclopentadiene | 237 | 10.802 | 10.796 | (0.892) | 683120 | 22.6315 | 22.63 |
| 34 2,4,6-Trichlorophenol | 196 | 10.957 | 10.957 | (0.905) | 853466 | 21.7328 | 21.73 |
| 35 2,4,5-Trichlorophenol | 196 | 11.026 | 11.026 | (0.911) | 886322 | 23.3626 | 23.36 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.074 | 11.074 | (0.915) | 2598626 | 22.3332 | 22.33 |
| 37 2-Chloronaphthalene | 162 | 11.186 | 11.186 | (0.924) | 2272649 | 22.7279 | 22.73 |
| 38 2-Nitroaniline | 65 | 11.448 | 11.448 | (0.946) | 434559 | 17.7019 | 17.70 |
| 39 Dimethylphthalate | 163 | 11.838 | 11.838 | (0.978) | 2325101 | 22.9040 | 22.90 |
| 40 Acenaphthylene | 152 | 11.854 | 11.854 | (0.979) | 3426390 | 21.8990 | 21.90 |
| 41 2,6-Dinitrotoluene | 165 | 11.924 | 11.918 | (0.985) | 548493 | 21.8403 | 21.84 |
| * 42 Acenaphthene-d10 | 164 | 12.105 | 12.105 | (1.000) | 1915567 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.127 | 12.127 | (1.002) | 536081 | 18.6598 | 18.66 |
| 44 Acenaphthene | 153 | 12.159 | 12.153 | (1.004) | 2133377 | 20.3225 | 20.32 |
| 45 2,4-Dinitrophenol | 184 | 12.298 | 12.298 | (1.016) | 879213 | 55.5920 | 55.59 |
| 46 Dibenzofuran | 168 | 12.420 | 12.420 | (1.026) | 2694356 | 18.3230 | 18.32 |
| 47 4-Nitrophenol | 109 | 12.522 | 12.517 | (1.034) | 194062 | 19.1914 | 19.19 |
| 48 2,4-Dinitrotoluene | 165 | 12.538 | 12.538 | (1.036) | 734919 | 22.7078 | 22.71 |
| 50 Diethylphthalate | 149 | 12.992 | 12.992 | (1.073) | 2244681 | 23.2101 | 23.21 |
| 49 Fluorene | 166 | 12.971 | 12.971 | (1.071) | 2492228 | 20.9113 | 20.91 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.019 | 13.019 | (1.075) | 1309168 | 22.3967 | 22.40 |
| 52 4-Nitroaniline | 138 | 13.115 | 13.120 | (1.083) | 500303 | 18.5066 | 18.51 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.190 | 13.190 | (0.912) | 1202815 | 53.5893 | 53.59 |
| 54 N-Nitrosodiphenylamine | 169 | 13.232 | 13.232 | (0.915) | 1716280 | 21.8732 | 21.87 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.398 | 13.398 | (1.107) | 588951 | 23.6894 | 23.69 |
| 56 4-Bromophenyl-phenylether | 248 | 13.788 | 13.788 | (0.954) | 847117 | 21.5770 | 21.58 |
| 57 Hexachlorobenzene | 284 | 13.986 | 13.986 | (0.967) | 1062718 | 21.6660 | 21.67 |
| 58 Pentachlorophenol | 266 | 14.306 | 14.306 | (0.990) | 340497 | 16.3506 | 16.35 (R) |
| * 59 Phenanthrene-d10 | 188 | 14.456 | 14.456 | (1.000) | 3113458 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.493 | 14.493 | (1.003) | 3483949 | 21.5237 | 21.52 |
| 61 Anthracene | 178 | 14.563 | 14.563 | (1.007) | 3482419 | 21.2922 | 21.29 |
| 62 Carbazole | 167 | 14.873 | 14.873 | (1.029) | 2858501 | 22.5144 | 22.51 |
| 63 Di-n-butylphthalate | 149 | 15.626 | 15.626 | (1.081) | 3684393 | 24.5397 | 24.54 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|--------|----------------|---------|----------|-------------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 64 Fluoranthene | 202 | 16.411 | 16.411 | (1.135) | 3980107 | 22.9823 | 22.98 |
| 65 Pyrene | 202 | 16.753 | 16.753 | (0.894) | 4140140 | 20.9356 | 20.94 |
| \$ 66 Terphenyl-d14 | 244 | 17.111 | 17.106 | (0.913) | 2977583 | 22.4630 | 22.46 |
| 67 Butylbenzylphthalate | 149 | 18.019 | 18.019 | (0.962) | 1703655 | 22.6799 | 22.68 |
| 68 Benzo(a)anthracene | 228 | 18.714 | 18.708 | (0.999) | 3976821 | 19.8816 | 19.88 |
| * 69 Chrysene-d12 | 240 | 18.735 | 18.735 | (1.000) | 3829511 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.751 | 18.751 | (1.001) | 1532360 | 20.2722 | 20.27 |
| 71 Chrysene | 228 | 18.772 | 18.772 | (1.002) | 3825046 | 20.8132 | 20.81 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.034 | 19.034 | (0.953) | 2314041 | 22.5555 | 22.56 |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.964 | 19.964 | (1.000) | 3649186 | 20.0000 | |
| 73 Di-n-octylphthalate | 149 | 19.974 | 19.974 | (1.001) | 3825331 | 22.4302 | 22.43 |
| 74 Benzo(b)fluoranthene | 252 | 20.386 | 20.354 | (0.977) | 4364175 | 20.2402 | 20.24 |
| 75 Benzo(k)fluoranthene | 252 | 20.386 | 20.386 | (0.977) | 4364175 | 21.2782 | 21.28 |
| 187 Total Benzofluoranthenes | 252 | 20.386 | 20.386 | (0.977) | 8464608 | 43.2933 | 43.29 |
| 76 Benzo(a)pyrene | 252 | 20.792 | 20.786 | (0.996) | 3802429 | 20.3108 | 20.31 |
| * 77 Perylene-d12 | 264 | 20.872 | 20.872 | (1.000) | 3997364 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.218 | 22.218 | (1.064) | 5743375 | 20.8304 | 20.83 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.245 | 22.245 | (1.066) | 4761189 | 21.4764 | 21.48 |
| 80 Benzo(g,h,i)perylene | 276 | 22.528 | 22.528 | (1.079) | 4831616 | 20.7739 | 20.77 |
| 90 N-Nitrosodimethylamine | 74 | 2.276 | 2.276 | (0.316) | 685926 | 23.9414 | 23.94 |
| 103 Pyridine | 79 | 2.254 | 2.254 | (0.314) | 1026117 | 21.4366 | 21.44 |
| 91 Aniline | 93 | 6.758 | 6.758 | (0.940) | 1578057 | 20.9154 | 20.92 |
| 105 1-methylnaphthalene | 141 | 10.583 | 10.583 | (1.143) | 1518347 | 20.7246 | 20.72 |
| 93 Benzidine | 184 | 16.700 | 16.700 | (0.891) | 1082004 | 25.5877 | 25.59 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.265 | 13.265 | (1.096) | 2053921 | 22.9066 | 22.91 |
| 143 1,4-Dioxane | 88 | 1.806 | 1.806 | (0.251) | 480903 | 27.6876 | 27.69 |
| \$ 137 d8-1,4-Dioxane | 96 | 1.774 | 1.774 | (0.247) | 513598 | 27.7147 | 27.71 |
| 144 alpha-Terpineol | 59 | 9.354 | 9.354 | (1.010) | 591512 | 20.4081 | 20.41 |
| 177 p-Benzoquinone | 82 | 5.834 | 5.834 | (0.630) | 223746 | 27.0239 | 27.02 |
| 98 Retene | 219 | 17.341 | 17.341 | (0.926) | 1662656 | 23.4118 | 23.41 |
| 99 Perylene | 252 | 20.909 | 20.904 | (1.002) | 4281016 | 23.6479 | 23.65 |
| 133 Butylatedhydroxytoluene | 205 | 12.330 | 12.330 | (1.019) | 1776388 | 23.7578 | 23.76 |
| 115 Tributyl Phosphate | 99 | 13.382 | 13.382 | (0.926) | 2176274 | 23.5786 | 23.58 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.086 | 15.086 | (1.044) | 1802155 | 24.1638 | 24.16 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.737 | 16.737 | (0.893) | 543323 | 23.5965 | 23.60 |
| 118 Triphenyl Phosphate | 326 | 18.318 | 18.318 | (0.978) | 1046709 | 23.6112 | 23.61 |
| 123 Acetophenone | 105 | 7.922 | 7.922 | (1.102) | 1598526 | 24.6461 | 24.65 |
| 168 Pentachlorobenzene | 250 | 12.463 | 12.463 | (1.030) | 1100257 | 22.1469 | 22.15 |
| 113 Diphenyl Oxide | 170 | 11.400 | 11.395 | (0.942) | 1622131 | 23.1470 | 23.15 |
| 112 Biphenyl | 154 | 11.197 | 11.197 | (0.925) | 2169155 | 20.2858 | 20.29 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.725 | 12.725 | (1.051) | 588586 | 21.7014 | 21.70 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.754 | 10.754 | (0.888) | 1258481 | 24.1951 | 24.20 |
| 110 Tetrachloroguaiacol | 247 | 14.440 | 14.440 | (0.999) | 955075 | 46.3557 | 46.36 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.826 | 12.832 | (0.887) | 464375 | 22.6694 | 22.67 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.944 | 12.944 | (1.800) | 557261 | 23.4767 | 23.48 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.858 | 13.858 | (1.145) | 468566 | 22.4243 | 22.42 |
| 184 3,4-Dichloroguaiacol | 192 | 11.299 | 11.299 | (1.571) | 479688 | 22.7533 | 22.75 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|-----------------------------|-----------|--------|----------------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 107 4,5-Dichloroguaiacol | 192 | 12.095 | 12.095 | (0.999) | 1209073 | 44.9743 | 44.97 |
| 182 4,6-Dichloroguaiacol | 192 | 12.095 | 12.095 | (1.682) | 1214000 | 46.0266 | 46.03 |
| 185 4-Chloroguaiacol | 115 | 10.225 | 10.225 | (1.422) | 231796 | 11.3483 | 11.35 |
| 186 Carbaryl | 144 | 15.300 | 15.300 | (1.058) | 1620317 | 21.4972 | 21.50 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.279 | 15.273 | (1.057) | 810349 | 24.2758 | 24.28 |
| 106 Guaiacol | 124 | 8.206 | 8.206 | (1.141) | 1001993 | 23.9345 | 23.93 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05231209.D
 Lab Smp Id: ICV0523
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 23-MAY-2012
 Calibration Time: 13:34
 Client Smp ID: ICV0523
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 828280 | -14.06 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3017500 | -12.04 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1915567 | -15.21 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3113458 | -9.67 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3829511 | -3.33 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3649186 | -2.91 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3997364 | -3.77 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.00 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | 0.00 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.00 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.00 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | 0.00 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | 0.00 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | 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: 20120523
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: ICV0523 Client Smp ID: ICV0523
 Level: LOW Operator: JZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: ICVS.spk Quant Type: ISTD
 Sublist File: ICALS.sub
 Method File: /chem2/nt6.i/20120523.b/SW846052312.m
 Misc Info: 12-

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 3 Phenol | 25.00 | 21.71 | 86.83 | 70-130 |
| 4 Bis(2-Chloroethyl) | 25.00 | 24.48 | 97.91 | 70-130 |
| 6 2-Chlorophenol | 25.00 | 21.46 | 85.82 | 70-130 |
| 7 1,3-Dichlorobenzen | 25.00 | 22.20 | 88.82 | 70-130 |
| 9 1,4-Dichlorobenzen | 25.00 | 22.55 | 90.22 | 70-130 |
| 11 Benzyl alcohol | 25.00 | 18.68 | 74.70 | 70-130 |
| 12 1,2-Dichlorobenzen | 25.00 | 22.32 | 89.26 | 70-130 |
| 13 2-Methylphenol | 25.00 | 22.41 | 89.65 | 70-130 |
| 14 2,2'-oxybis(1-Chlo | 25.00 | 25.00 | 100.02 | 70-130 |
| 15 4-Methylphenol | 25.00 | 22.36 | 89.46 | 70-130 |
| 16 N-Nitroso-di-n-pro | 25.00 | 23.58 | 94.30 | 70-130 |
| 17 Hexachloroethane | 25.00 | 22.41 | 89.63 | 70-130 |
| 19 Nitrobenzene | 25.00 | 22.13 | 88.50 | 70-130 |
| 20 Isophorone | 25.00 | 25.49 | 101.97 | 70-130 |
| 21 2-Nitrophenol | 25.00 | 20.83 | 83.32 | 70-130 |
| 22 2,4-Dimethylphenol | 25.00 | 21.52 | 86.07 | 70-130 |
| 23 Bis(2-Chloroethoxy | 25.00 | 22.58 | 90.31 | 70-130 |
| 24 Benzoic acid | 50.00 | 45.32 | 90.63 | 70-130 |
| 25 2,4-Dichlorophenol | 25.00 | 21.30 | 85.20 | 70-130 |
| 26 1,2,4-Trichloroben | 25.00 | 21.80 | 87.20 | 70-130 |
| 28 Naphthalene | 25.00 | 21.93 | 87.72 | 70-130 |
| 29 4-Chloroaniline | 25.00 | 18.38 | 73.53 | 70-130 |
| 30 Hexachlorobutadien | 25.00 | 21.75 | 86.99 | 70-130 |
| 31 4-Chloro-3-methylp | 25.00 | 22.27 | 89.08 | 70-130 |
| 32 2-Methylnaphthalen | 25.00 | 18.03 | 72.11 | 70-130 |
| 33 Hexachlorocyclopene | 25.00 | 22.63 | 90.53 | 70-130 |
| 34 2,4,6-Trichlorophe | 25.00 | 21.73 | 86.93 | 70-130 |
| 35 2,4,5-Trichlorophe | 25.00 | 23.36 | 93.45 | 70-130 |
| 37 2-Chloronaphthalen | 25.00 | 22.73 | 90.91 | 70-130 |
| 38 2-Nitroaniline | 25.00 | 17.70 | 70.81 | 70-130 |
| 39 Dimethylphthalate | 25.00 | 22.90 | 91.62 | 70-130 |
| 40 Acenaphthylene | 25.00 | 21.90 | 87.60 | 70-130 |
| 41 2,6-Dinitrotoluene | 25.00 | 21.84 | 87.36 | 70-130 |

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 43 3-Nitroaniline | 25.00 | 18.66 | 74.64 | 70-130 |
| 44 Acenaphthene | 25.00 | 20.32 | 81.29 | 70-130 |
| 45 2,4-Dinitrophenol | 50.00 | 55.59 | 111.18 | 70-130 |
| 46 Dibenzofuran | 25.00 | 18.32 | 73.29 | 70-130 |
| 47 4-Nitrophenol | 25.00 | 19.19 | 76.77 | 70-130 |
| 48 2,4-Dinitrotoluene | 25.00 | 22.71 | 90.83 | 70-130 |
| 49 Fluorene | 25.00 | 20.91 | 83.65 | 70-130 |
| 50 Diethylphthalate | 25.00 | 23.21 | 92.84 | 70-130 |
| 51 4-Chlorophenyl-phe | 25.00 | 22.40 | 89.59 | 70-130 |
| 52 4-Nitroaniline | 25.00 | 18.51 | 74.03 | 70-130 |
| 53 4,6-Dinitro-2-meth | 50.00 | 53.59 | 107.18 | 70-130 |
| 54 N-Nitrosodiphenyla | 25.00 | 21.87 | 87.49 | 70-130 |
| 56 4-Bromophenyl-phen | 25.00 | 21.58 | 86.31 | 70-130 |
| 57 Hexachlorobenzene | 25.00 | 21.67 | 86.66 | 70-130 |
| 58 Pentachlorophenol | 25.00 | 16.35 | 65.40* | 70-130 |
| 60 Phenanthrene | 25.00 | 21.52 | 86.09 | 70-130 |
| 61 Anthracene | 25.00 | 21.29 | 85.17 | 70-130 |
| 62 Carbazole | 25.00 | 22.51 | 90.06 | 70-130 |
| 63 Di-n-butylphthalat | 25.00 | 24.54 | 98.16 | 70-130 |
| 64 Fluoranthene | 25.00 | 22.98 | 91.93 | 70-130 |
| 65 Pyrene | 25.00 | 20.94 | 83.74 | 70-130 |
| 67 Butylbenzylphthala | 25.00 | 22.68 | 90.72 | 70-130 |
| 68 Benzo(a)anthracene | 25.00 | 19.88 | 79.53 | 70-130 |
| 70 3,3'-Dichlorobenzi | 25.00 | 20.27 | 81.09 | 70-130 |
| 71 Chrysene | 25.00 | 20.81 | 83.25 | 70-130 |
| 72 bis(2-Ethylhexyl)p | 25.00 | 22.56 | 90.22 | 70-130 |
| 73 Di-n-octylphthalat | 25.00 | 22.43 | 89.72 | 70-130 |
| 74 Benzo(b)fluoranth | 25.00 | 20.24 | 80.96 | 70-130 |
| 75 Benzo(k)fluoranth | 25.00 | 21.28 | 85.11 | 70-130 |
| 187 Total Benzofluoran | 50.00 | 43.29 | 86.59 | 70-130 |
| 76 Benzo(a)pyrene | 25.00 | 20.31 | 81.24 | 70-130 |
| 78 Indeno(1,2,3-cd)py | 25.00 | 20.83 | 83.32 | 70-130 |
| 79 Dibenzo(a,h)anthra | 25.00 | 21.48 | 85.91 | 70-130 |
| 80 Benzo(g,h,i)peryle | 25.00 | 20.77 | 83.10 | 70-130 |
| 90 N-Nitrosodimethyla | 25.00 | 23.94 | 95.77 | 70-130 |
| 103 Pyridine | 25.00 | 21.44 | 85.75 | 70-130 |
| 91 Aniline | 25.00 | 20.92 | 83.66 | 70-130 |
| 105 1-methylnaphthalen | 25.00 | 20.72 | 82.90 | 70-130 |
| 93 Benzidine | 25.00 | 25.59 | 102.35 | 70-130 |
| 111 Azobenzene (1,2-DP | 25.00 | 22.91 | 91.63 | 70-130 |
| 143 1,4-Dioxane | 25.00 | 27.69 | 110.75 | 70-130 |
| 144 alpha-Terpineol | 25.00 | 20.41 | 81.63 | 70-130 |
| 177 p-Benzoquinone | 25.00 | 27.02 | 108.10 | 70-130 |
| 98 Retene | 25.00 | 23.41 | 93.65 | 70-130 |
| 133 Butylatedhydroxyto | 25.00 | 23.76 | 95.03 | 70-130 |
| 115 Tributyl Phosphate | 25.00 | 23.58 | 94.31 | 70-130 |
| 116 Dibutyl Phenyl Pho | 25.00 | 24.16 | 96.66 | 70-130 |

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|------------------------|-----------------------|---------------------------|----------------|--------|
| 117 Butyl Diphenyl Pho | 25.00 | 23.60 | 94.39 | 70-130 |
| 118 Triphenyl Phospat | 25.00 | 23.61 | 94.44 | 70-130 |
| 123 Acetophenone | 25.00 | 24.65 | 98.58 | 70-130 |
| 168 Pentachlorobenzene | 25.00 | 22.15 | 88.59 | 70-130 |
| 113 Diphenyl Oxide | 25.00 | 23.15 | 92.59 | 70-130 |
| 112 Biphenyl | 25.00 | 20.29 | 81.14 | 70-130 |
| 120 2,3,4,6-Tetrachlor | 25.00 | 21.70 | 86.81 | 70-130 |
| 151 1,2,4,5-Tetrachlor | 25.00 | 24.20 | 96.78 | 70-130 |
| 110 Tetrachloroguaiaco | 50.00 | 46.36 | 92.71 | 70-130 |
| 109 3,4,5-Trichlorogua | 25.00 | 22.67 | 90.68 | 70-130 |
| 181 3,4,6-Trichlorogua | 25.00 | 23.48 | 93.91 | 70-130 |
| 108 4,5,6-Trichlorogua | 25.00 | 22.42 | 89.70 | 70-130 |
| 184 3,4-Dichloroguaiac | 25.00 | 22.75 | 91.01 | 70-130 |
| 107 4,5-Dichloroguaiac | 50.00 | 44.97 | 89.95 | 70-130 |
| 182 4,6-Dichloroguaiac | 50.00 | 46.03 | 92.05 | 70-130 |
| 185 4-Chloroguaiacol | 12.50 | 11.35 | 90.79 | 70-130 |
| 106 Guaiacol | 25.00 | 23.93 | 95.74 | 70-130 |
| 186 Carbaryl | 25.00 | 21.50 | 85.99 | 70-130 |
| 178 2-Benzyl-4-Chlorop | 25.00 | 24.28 | 97.10 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 25.00 | 24.50 | 97.99 | 75-125 |
| \$ 2 Phenol-d5 | 25.00 | 23.70 | 94.80 | 75-125 |
| \$ 5 2-Chlorophenol-d4 | 25.00 | 23.78 | 95.11 | 75-125 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 23.37 | 93.48 | 75-125 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 23.70 | 94.79 | 75-125 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 22.33 | 89.33 | 75-125 |
| \$ 55 2,4,6-Tribromophen | 25.00 | 23.69 | 94.76 | 75-125 |
| \$ 66 Terphenyl-d14 | 25.00 | 22.46 | 89.85 | 75-125 |
| \$ 137 d8-1,4-Dioxane | 25.00 | 27.71 | 110.86 | 75-125 |

Date : 23-MAY-2012 20:29

Client ID: ICV0523

Sample Info: ICV0523

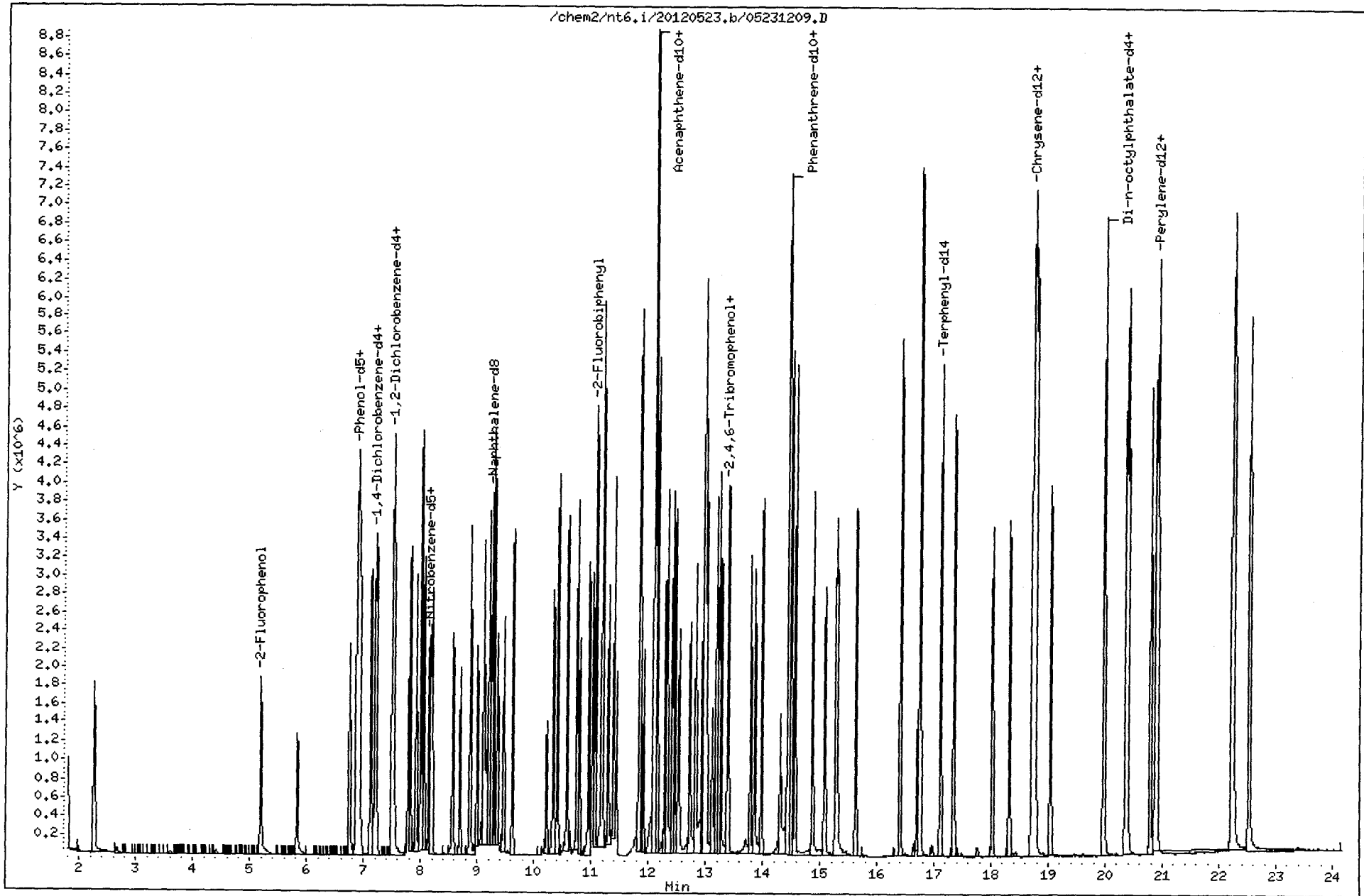
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



05231209.D

CO-ELUTION SUMMARY FOR FILE - 05231209.D

Lab ID: ICV0523, Method: SW846052312.m, Instrument: nt6.i, Date: 23-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

UU52:00616

Semivolatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: UU52, UU62

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: U1162 Client ID: Anchovy RZA, LLC

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 5/23/12 Analysis Start Date: 5/24/12

| | | | |
|--------------------------------|---|-----------------------------------|---|
| DFTPP Tune Meets Criteria? | <input checked="" type="checkbox"/> YES / NO | Internal Standard Meets Criteria? | <input checked="" type="checkbox"/> YES / NO |
| DDT Breakdown <20%? | <input checked="" type="checkbox"/> YES / NO / NA | Method Blank In Control? | <input checked="" type="checkbox"/> YES / NO |
| Peak Tailing Factor ≤2? | <input checked="" type="checkbox"/> YES / NO / NA | LCS / LCSD Recovery In Control? | <input checked="" type="checkbox"/> YES / NO |
| ICal acceptable? | <input checked="" type="checkbox"/> YES / NO | CCal acceptable? | <input checked="" type="checkbox"/> YES / NO |
| Q flag applied? | <input checked="" type="checkbox"/> YES / NO | Q flag applied? | <input checked="" type="checkbox"/> YES / NO |
| Surrogate Recovery in Control? | <input checked="" type="checkbox"/> YES / NO | Special Analysis Criteria Met? | YES / NO / <input checked="" type="checkbox"/> NA |
| Manual Integrations for ICal? | <input checked="" type="checkbox"/> YES / NO | Manual Integrations for Samples? | Yes / <input checked="" type="checkbox"/> NO |

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

Samples 1 & 2 + MB/LCS/LCSD + QLS
Forms included.

LCS/LCSD: compound "Pentene" not added in.

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/24/12, 5/30/12
Reviewer: [Signature] Date: 5/30

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.: GC=US00036167, MS=US81221575

Date: 6/24/12 Analysis: 8270 Analyst: AJ
 GC Program: MS/MS Column No: 208202 Column Type: ZB-SM5
 Instrument Tune (.U or .CT.): 120406 EM Voltage: 1741
 Calibration File: 0524201 Curve Date: 6/23/12 Injection Vol.: 100

| IS/SS | Ical/Ccal | LCS/ICV |
|---------------|-----------------------|---------|
| <u>1875-1</u> | <u>1932-2, 1940-1</u> | |
| | <u>1941-1, 1942-1</u> | |
| | <u>1914-1, 1934-1</u> | |
| | <u>1929-3</u> | |

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem2/nt6.i/20120524.b

| Time | Filename | LabID | ClientID | DF |
|------|-----------------|-----------|--------------|---|
| 1 | 1050 05241201.D | CC0524 | CC0524 | 1 7.19 841610 9.26 3091072 12.11 1981765 14.46 3205322 18.73 3861093 20.87 4039539 19.96 3655319 |
| 2 | 1126 05241202.D | UU62MBW1 | UU62MBW1 | 1 7.19 971489 9.25 3374983 12.10 2127525 14.45 3333166 18.73 3717834 19.96 3450320 20.87 4238968 |
| 3 | 1159 05241203.D | UU62LCSW1 | UU62LCSW1 | 1 7.19 847652 9.26 3074341 12.11 1869892 14.45 3057363 18.73 3736704 19.96 3533231 20.87 3942542 |
| 4 | 1233 05241204.D | UU62LCSW1 | UU62LCSW1 | 1 7.19 912008 9.26 3381197 12.11 2121467 14.46 3414818 18.73 3963208 19.96 3774442 20.87 4232897 |
| 5 | 1307 05241205.D | UU62QLS | UU62QLS | 1 7.19 926851 9.25 3296251 12.10 2107365 14.45 3337981 18.73 3892343 19.96 3637574 20.87 4355088 |
| 6 | 1340 05241206.D | UU62J | MS-SSRB-1205 | 1 7.19 896401 9.25 3178107 12.10 2016726 14.45 3170811 18.73 3763318 19.96 3520284 20.86 4272719 |
| 7 | 1414 05241207.D | UU62K | MS-SSFB-1205 | 1 7.19 948003 9.26 3347510 12.10 2141551 14.45 3383727 18.73 3983969 19.96 3747644 20.86 4429070 |
| 8 | 1447 05241208.D | UU68A | MW2-W-9 | 1 7.19 964832 9.26 3438997 12.10 2237574 14.45 3576664 18.73 3864134 19.96 3924286 20.87 4454331 |
| 9 | 1521 05241209.D | US34D | SPE003-40G | 3 7.19 811378 9.25 2975429 12.10 1914303 14.45 3022789 18.73 3393496 19.97 3350409 20.87 3760179 |
| 10 | 1554 05241210.D | UU66A | MW1-W-8.5 | 1 7.19 816977 9.26 2969657 12.10 1796681 14.45 2930383 18.73 3718823 19.96 3702750 20.87 4405537 |
| 11 | 1627 05241211.D | UU66B | FIELD DUPLIC | 1 7.19 834157 9.26 3012475 12.10 1814922 14.45 2785390 18.73 3703728 19.97 3668012 20.87 4385818 |
| 12 | 1701 05241212.D | UU22A | GP5-S-2 | 1 7.19 745464 9.25 2665987 12.10 1656488 14.45 2670063 18.74 4436955 19.98 4248614 20.90 5061876 |

AJ
6/24/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/nt6.i/20120524.b

ARI Job No.: CC05 Method: SW846052312.m Instrument: nt6.i Date: 24-MAY-2012

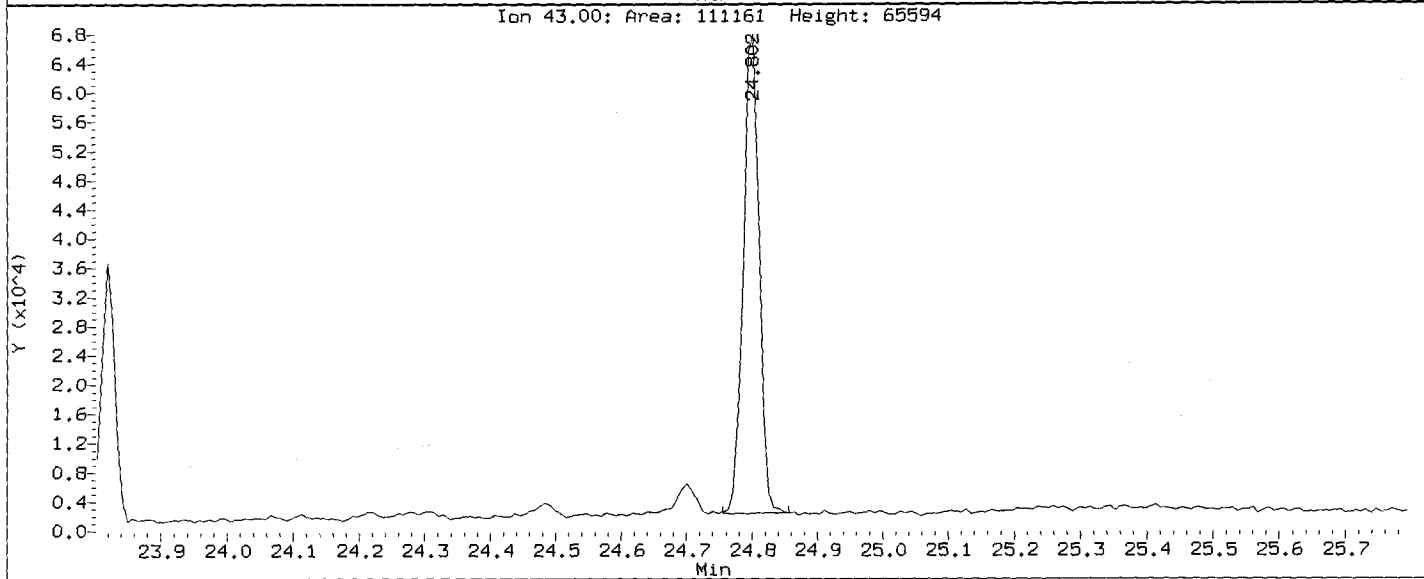
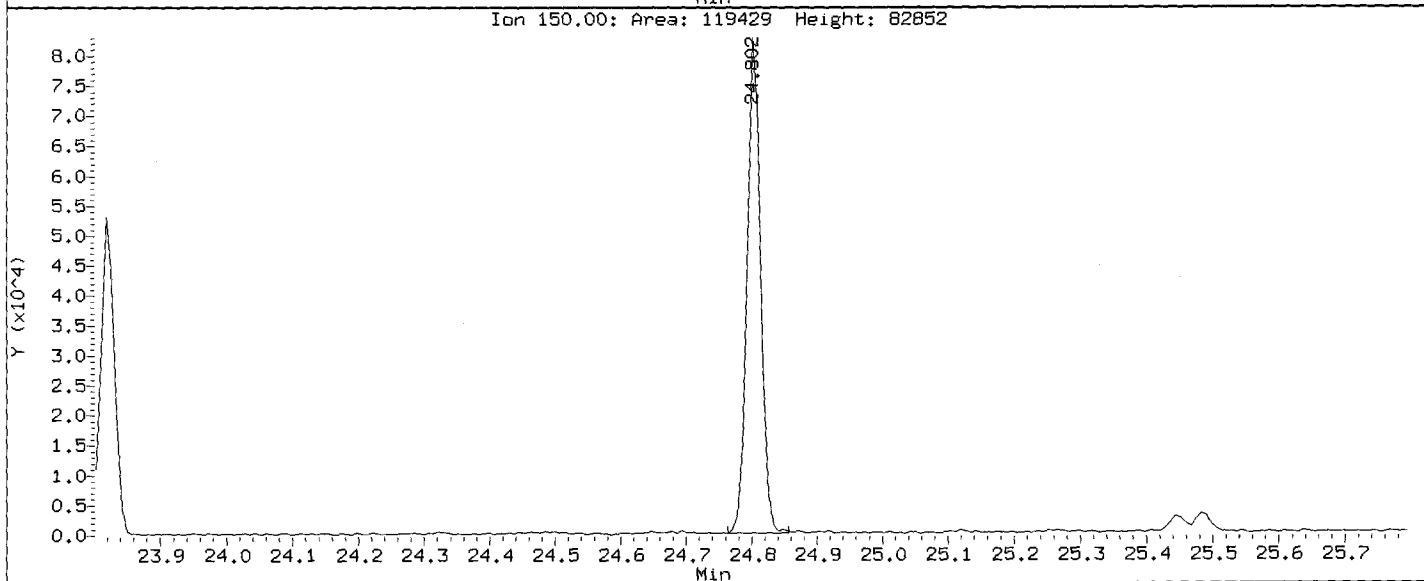
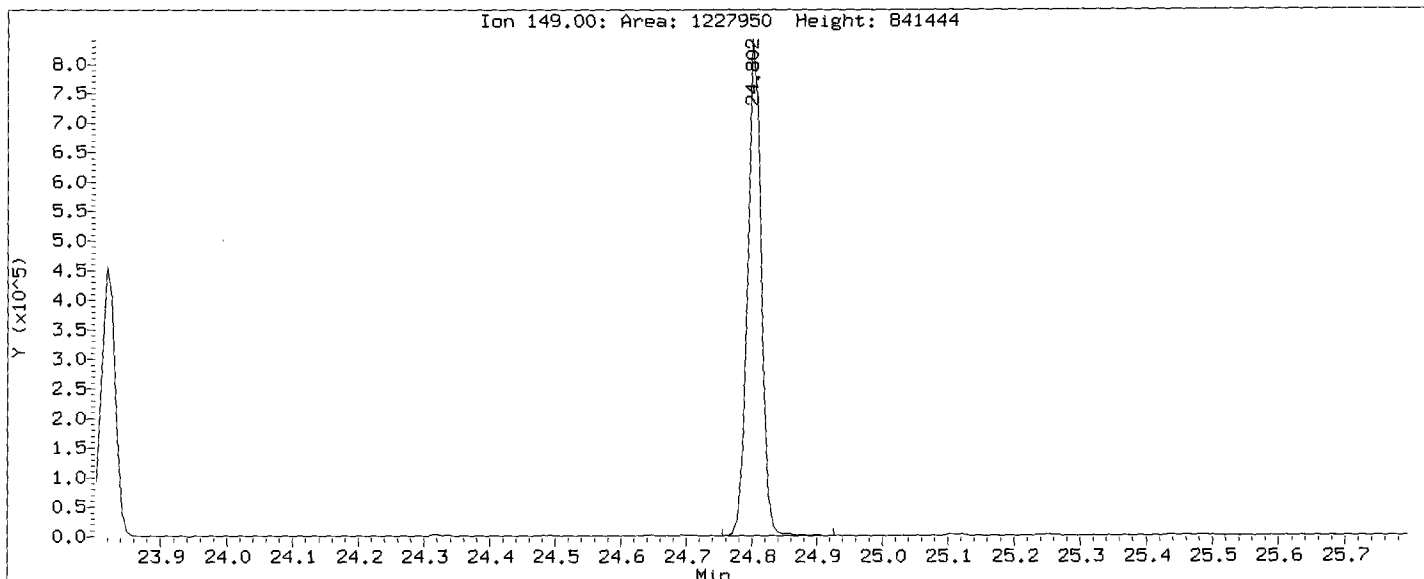
| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------|------------|----|--|
| 1050 | 05241201.D | CC0524 | CC0524 | 1 | NO MANUAL INTEGRATION |
| 1126 | 05241202.D | UU62MBW1 | UU62MBW1 | 1 | NO MANUAL INTEGRATION |
| 1159 | 05241203.D | UU62LCSW1 | UU62LCSW1 | 1 | NO MANUAL INTEGRATION |
| 1233 | 05241204.D | UU62LCSDW1 | UU62LCSDW1 | 1 | NO MANUAL INTEGRATION |
| 1307 | 05241205.D | UU62QLS | UU62QLS | 1 | Isophorone, Benzoic acid, 4-Nitrophenol, Pentachlorophenol, Aniline, |
| 1340 | 05241206.D | UU62J | MS-SSRB-12 | 1 | NO MANUAL INTEGRATION |
| 1414 | 05241207.D | UU62K | MS-SSFB-12 | 1 | NO MANUAL INTEGRATION |

2 of 20/12

05241205.D

Data File: /chem1/nt10.i/20120526.b/ic0526a.d
Injection Date: 26-MAY-2012 10:59
Instrument: nt10.i
Client Sample ID:

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 5/29/12 Analysis: ABN Analyst: YZ
 GC Program: ABN₂ Column No: 227 815 Column Type: ZB5 msL
 Instrument Tune (.U or .CT.): 11/21/04 EM Voltage: 1800
 Calibration File: DF0529 Curve Date: 5/26/12 Injection Vol.: 1.0

| IS/SS | Ical/Ccal | LCS/ICV |
|---------------|-----------------------------|---------|
| <u>1875-1</u> | <u>1949-2</u> <u>1891-2</u> | |
| | <u>1950-1</u> <u>1892-1</u> | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20120529.b

| Time | Filename | LabID | ClientID | DP | | | | | | | | | | | | | | |
|------|----------------|----------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|-------|--------|
| 1 | 1046 df0529.d | DFTPP | DFTPP | 1 | NO ISTDS FOUND | | | | | | | | | | | | | |
| 2 | 1101 cc0529.d | CC0529 | | 1 | 8.86 | 201464 | 11.51 | 781105 | 15.39 | 450943 | 18.65 | 697664 | 23.73 | 705871 | 24.80 | 1102875 | 26.13 | 704858 |
| 3 | 1141 uu52hms.d | UU52HMS | MS007-SS-120 | 3 | 8.87 | 194036 | 11.51 | 746578 | 15.39 | 430169 | 18.66 | 648205 | 23.73 | 694641 | 24.81 | 1111139 | 26.13 | 687334 |
| 4 | 1219 uu52hms.d | UU52HMSD | MS007-SS-120 | 3 | 8.87 | 198613 | 11.51 | 774430 | 15.39 | 446161 | 18.66 | 635278 | 23.73 | 714204 | 24.81 | 1120932 | 26.13 | 706143 |
| 5 | 1256 uu52i.d | UU52I | MS008-SS-120 | 3 | 8.86 | 197513 | 11.51 | 791554 | 15.39 | 435113 | 18.66 | 618705 | 23.73 | 705752 | 24.81 | 1101771 | 26.13 | 690654 |
| 6 | 1333 uu52j.d | UU52J | MS009-SS-120 | 3 | 8.87 | 192942 | 11.51 | 774858 | 15.39 | 438714 | 18.66 | 619554 | 23.73 | 704418 | 24.81 | 1108887 | 26.13 | 689542 |

YZ

5/31/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt10.i/20120529.b

Instrument: nt10.i Date: 29-MAY-2012 Method: ABN.m

INITIAL CAL: 26-MAY-2012

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

CONTINUING CAL: 29-MAY-2012

| Compound | %D |
|------------|----|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

Date : 29-MAY-2012 10:46

Client ID: DFTPP

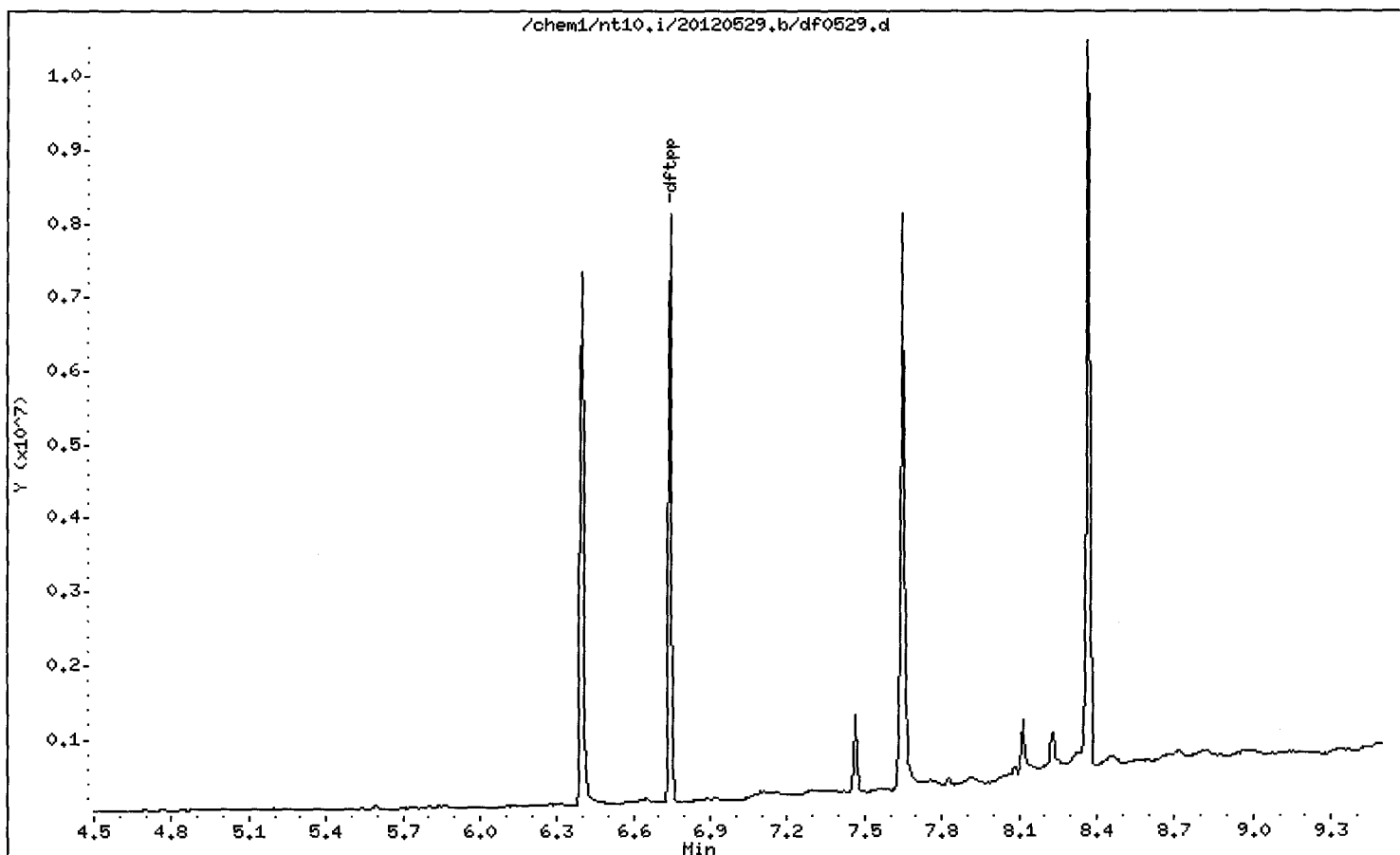
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



Date : 29-MAY-2012 10:46

Client ID: DFTPP

Instrument: nt10.i

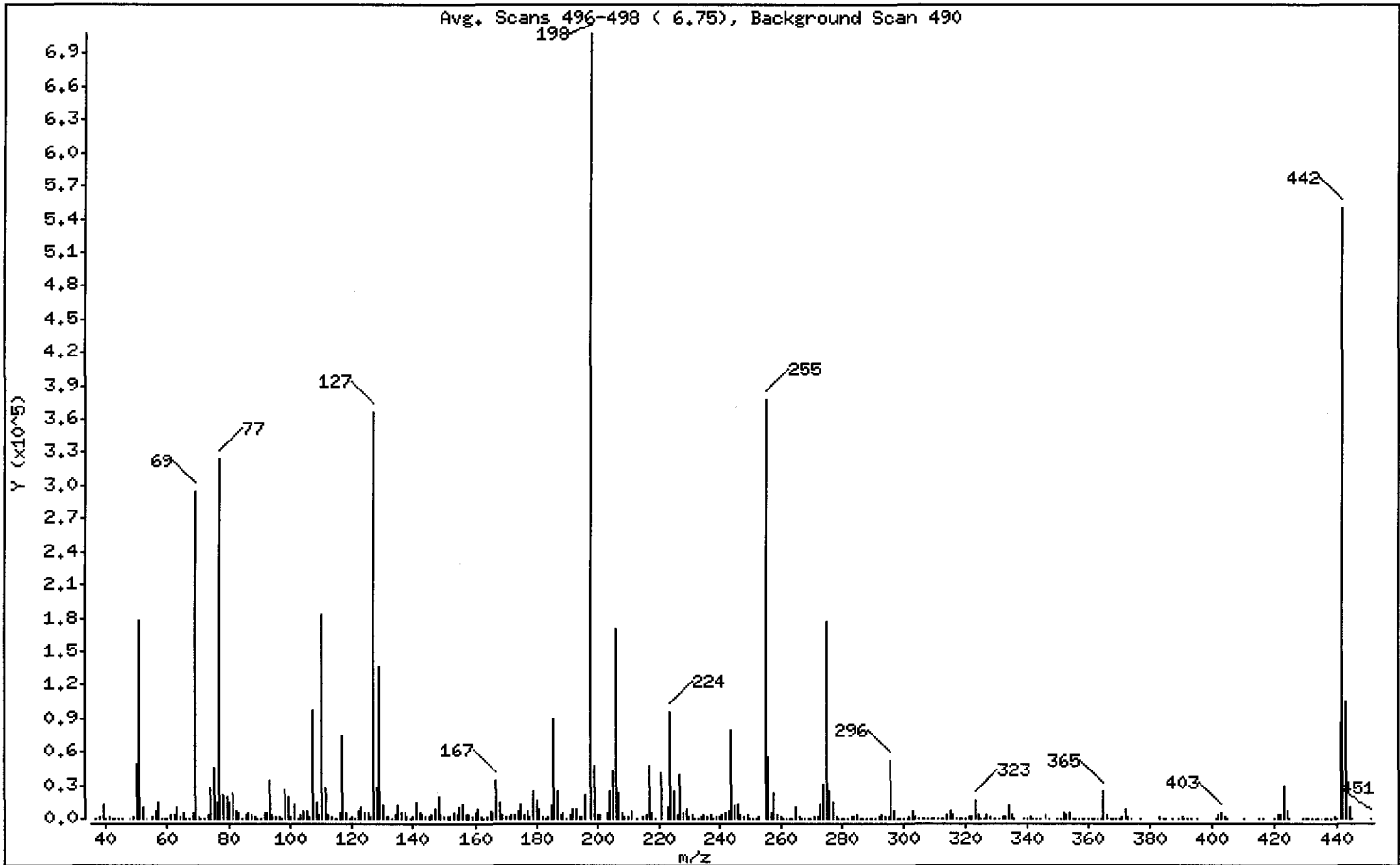
Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 25.05 |
| 68 | Less than 2.00% of mass 69 | 0.60 (1.45) |
| 69 | Mass 69 relative abundance | 41.51 |
| 70 | Less than 2.00% of mass 69 | 0.17 (0.41) |
| 127 | 10.00 - 80.00% of mass 198 | 51.79 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.59 |
| 275 | 10.00 - 60.00% of mass 198 | 24.97 |
| 365 | Greater than 1.00% of mass 198 | 3.38 |
| 441 | 0.01 - 24.00% of mass 442 | 12.07 (15.56) |
| 442 | 50.00 - 200.00% of mass 198 | 77.62 |
| 443 | 15.00 - 24.00% of mass 442 | 14.94 (19.25) |

Date : 29-MAY-2012 10:46

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0529.d

Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490

Location of Maximum: 198.00

Number of points: 367

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 135 | 131.00 | 2001 | 229.00 | 8295 | 322.00 | 1087 |
| 37.00 | 763 | 132.00 | 1043 | 230.00 | 1161 | 323.00 | 15621 |
| 38.00 | 2308 | 133.00 | 654 | 231.00 | 3379 | 324.00 | 2936 |
| 39.00 | 13696 | 134.00 | 3456 | 232.00 | 593 | 325.00 | 477 |
| 40.00 | 706 | 135.00 | 10868 | 233.00 | 703 | 326.00 | 390 |
| 41.00 | 1072 | 136.00 | 4233 | 234.00 | 2443 | 327.00 | 3157 |
| 42.00 | 62 | 137.00 | 5444 | 235.00 | 2893 | 328.00 | 1657 |
| 43.00 | 73 | 138.00 | 1103 | 236.00 | 2014 | 329.00 | 240 |
| 44.00 | 374 | 139.00 | 773 | 237.00 | 3084 | 330.00 | 220 |
| 45.00 | 476 | 140.00 | 1263 | 238.00 | 595 | 331.00 | 44 |
| 48.00 | 56 | 141.00 | 15462 | 239.00 | 1519 | 332.00 | 1391 |
| 49.00 | 1209 | 142.00 | 5314 | 240.00 | 1405 | 333.00 | 1663 |
| 50.00 | 48208 | 143.00 | 3912 | 241.00 | 2487 | 334.00 | 10870 |
| 51.00 | 177536 | 144.00 | 1004 | 242.00 | 5243 | 335.00 | 2621 |
| 52.00 | 9335 | 145.00 | 1113 | 243.00 | 6372 | 336.00 | 322 |
| 53.00 | 305 | 146.00 | 2785 | 244.00 | 79056 | 339.00 | 386 |
| 55.00 | 1069 | 147.00 | 8080 | 245.00 | 10729 | 340.00 | 279 |
| 56.00 | 5958 | 148.00 | 19000 | 246.00 | 13828 | 341.00 | 1858 |
| 57.00 | 14635 | 149.00 | 3727 | 247.00 | 2984 | 342.00 | 614 |
| 58.00 | 684 | 150.00 | 822 | 248.00 | 836 | 343.00 | 216 |
| 59.00 | 205 | 151.00 | 2297 | 249.00 | 2560 | 344.00 | 63 |
| 60.00 | 370 | 152.00 | 1226 | 250.00 | 721 | 346.00 | 3532 |
| 61.00 | 2704 | 153.00 | 5142 | 251.00 | 611 | 347.00 | 735 |
| 62.00 | 3331 | 154.00 | 3698 | 252.00 | 749 | 350.00 | 187 |
| 63.00 | 10025 | 155.00 | 9097 | 253.00 | 1886 | 351.00 | 403 |
| 64.00 | 1450 | 156.00 | 13308 | 255.00 | 377728 | 352.00 | 4829 |
| 65.00 | 5081 | 157.00 | 2817 | 256.00 | 55584 | 353.00 | 3536 |
| 66.00 | 300 | 158.00 | 2868 | 257.00 | 4383 | 354.00 | 4734 |
| 67.00 | 222 | 159.00 | 2221 | 258.00 | 22272 | 355.00 | 790 |
| 68.00 | 4257 | 160.00 | 5042 | 259.00 | 3440 | 356.00 | 264 |
| 69.00 | 294144 | 161.00 | 7363 | 260.00 | 834 | 357.00 | 174 |
| 70.00 | 1204 | 162.00 | 2381 | 261.00 | 776 | 358.00 | 108 |
| 71.00 | 265 | 163.00 | 567 | 262.00 | 70 | 359.00 | 458 |
| 72.00 | 90 | 164.00 | 956 | 263.00 | 392 | 360.00 | 65 |
| 73.00 | 2489 | 165.00 | 5752 | 264.00 | 578 | 361.00 | 116 |

Date : 29-MAY-2012 10:46

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0529.d
 Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490
 Location of Maximum: 198.00
 Number of points: 367

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 74.00 | 28008 | 166.00 | 5228 | 265.00 | 9033 | 362.00 | 62 |
| 75.00 | 46120 | 167.00 | 33664 | 266.00 | 1234 | 363.00 | 85 |
| 76.00 | 14723 | 168.00 | 13974 | 267.00 | 122 | 364.00 | 96 |
| 77.00 | 324928 | 169.00 | 2657 | 268.00 | 248 | 365.00 | 23984 |
| 78.00 | 21960 | 170.00 | 1113 | 269.00 | 33 | 366.00 | 3617 |
| 79.00 | 19544 | 171.00 | 1748 | 270.00 | 487 | 367.00 | 242 |
| 80.00 | 15100 | 172.00 | 2589 | 271.00 | 1103 | 368.00 | 52 |
| 81.00 | 22696 | 173.00 | 3785 | 272.00 | 1387 | 369.00 | 112 |
| 82.00 | 5778 | 174.00 | 6633 | 273.00 | 12512 | 370.00 | 577 |
| 83.00 | 5690 | 175.00 | 13026 | 274.00 | 31608 | 371.00 | 1290 |
| 84.00 | 668 | 176.00 | 3865 | 275.00 | 176960 | 372.00 | 8424 |
| 85.00 | 3506 | 177.00 | 6004 | 276.00 | 23832 | 373.00 | 2188 |
| 86.00 | 5698 | 178.00 | 2071 | 277.00 | 14076 | 374.00 | 266 |
| 87.00 | 2873 | 179.00 | 23664 | 278.00 | 2319 | 377.00 | 299 |
| 88.00 | 1189 | 180.00 | 16215 | 279.00 | 674 | 383.00 | 2297 |
| 89.00 | 803 | 181.00 | 7800 | 280.00 | 147 | 384.00 | 663 |
| 90.00 | 202 | 182.00 | 1087 | 281.00 | 343 | 385.00 | 239 |
| 91.00 | 5112 | 183.00 | 656 | 282.00 | 577 | 387.00 | 60 |
| 92.00 | 4956 | 184.00 | 1964 | 283.00 | 1679 | 389.00 | 173 |
| 93.00 | 33968 | 185.00 | 11871 | 284.00 | 1329 | 390.00 | 1375 |
| 94.00 | 2449 | 186.00 | 89864 | 285.00 | 2516 | 391.00 | 638 |
| 95.00 | 1211 | 187.00 | 25008 | 286.00 | 605 | 392.00 | 565 |
| 96.00 | 1548 | 188.00 | 2649 | 287.00 | 199 | 393.00 | 58 |
| 97.00 | 645 | 189.00 | 5247 | 288.00 | 310 | 395.00 | 74 |
| 98.00 | 26264 | 190.00 | 682 | 289.00 | 728 | 401.00 | 569 |
| 99.00 | 20056 | 191.00 | 2457 | 290.00 | 506 | 402.00 | 3354 |
| 100.00 | 1762 | 192.00 | 7788 | 291.00 | 393 | 403.00 | 4350 |
| 101.00 | 12397 | 193.00 | 8088 | 292.00 | 818 | 404.00 | 1780 |
| 102.00 | 664 | 194.00 | 1741 | 293.00 | 3345 | 405.00 | 258 |
| 103.00 | 3928 | 195.00 | 858 | 294.00 | 1039 | 410.00 | 128 |
| 104.00 | 7300 | 196.00 | 21824 | 295.00 | 1352 | 415.00 | 314 |
| 105.00 | 7077 | 198.00 | 708608 | 296.00 | 52336 | 416.00 | 67 |
| 106.00 | 2310 | 199.00 | 46688 | 297.00 | 6813 | 420.00 | 76 |
| 107.00 | 97392 | 200.00 | 3818 | 298.00 | 580 | 421.00 | 4053 |
| 108.00 | 15246 | 201.00 | 3753 | 299.00 | 101 | 422.00 | 3709 |

Date : 29-MAY-2012 10:46

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0529.d

Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490

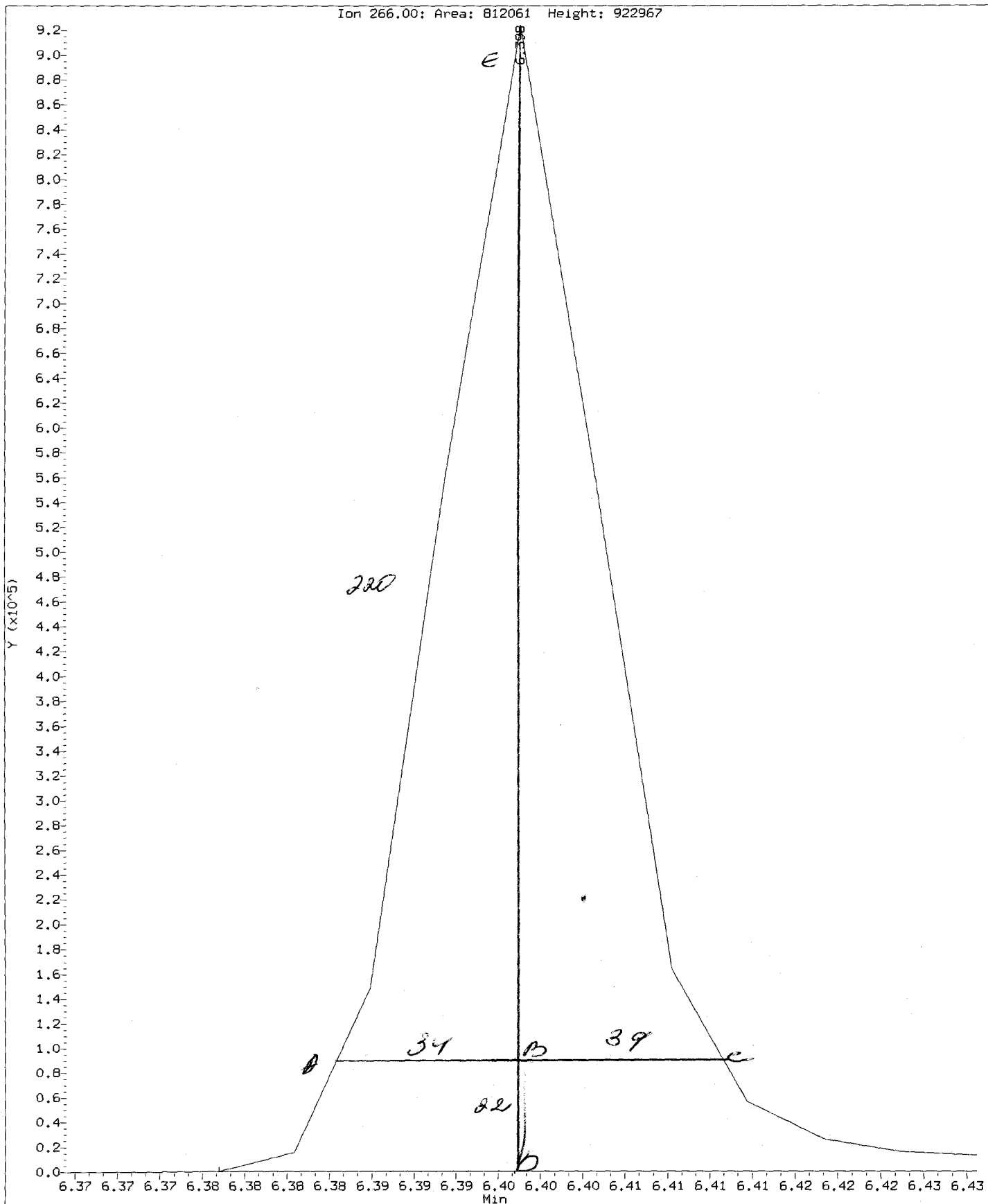
Location of Maximum: 198.00

Number of points: 367

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|------|--------|--------|
| 109.00 | 2641 | 203.00 | 4656 | 300.00 | 114 | 423.00 | 29192 |
| 110.00 | 183872 | 204.00 | 24168 | 301.00 | 764 | 424.00 | 6137 |
| 111.00 | 27760 | 205.00 | 41560 | 302.00 | 909 | 425.00 | 582 |
| 112.00 | 3134 | 206.00 | 170816 | 303.00 | 6129 | 429.00 | 105 |
| 113.00 | 1051 | 207.00 | 22000 | 304.00 | 1520 | 430.00 | 52 |
| 114.00 | 310 | 208.00 | 5414 | 305.00 | 277 | 431.00 | 82 |
| 115.00 | 656 | 209.00 | 1910 | 306.00 | 58 | 432.00 | 57 |
| 116.00 | 5448 | 210.00 | 1058 | 307.00 | 52 | 433.00 | 234 |
| 117.00 | 74712 | 211.00 | 6340 | 308.00 | 743 | 434.00 | 118 |
| 118.00 | 5073 | 213.00 | 388 | 309.00 | 582 | 435.00 | 518 |
| 119.00 | 520 | 215.00 | 1609 | 310.00 | 674 | 436.00 | 318 |
| 120.00 | 1101 | 216.00 | 4019 | 311.00 | 185 | 437.00 | 590 |
| 121.00 | 335 | 217.00 | 47600 | 312.00 | 293 | 438.00 | 731 |
| 122.00 | 5769 | 218.00 | 5509 | 313.00 | 599 | 439.00 | 1355 |
| 123.00 | 9487 | 219.00 | 721 | 314.00 | 2660 | 440.00 | 770 |
| 124.00 | 4236 | 221.00 | 40024 | 315.00 | 5826 | 441.00 | 85560 |
| 125.00 | 4260 | 223.00 | 10570 | 316.00 | 3053 | 442.00 | 550016 |
| 126.00 | 1748 | 224.00 | 96032 | 317.00 | 525 | 443.00 | 105888 |
| 127.00 | 366976 | 225.00 | 24312 | 318.00 | 119 | 444.00 | 9889 |
| 128.00 | 27392 | 226.00 | 2780 | 319.00 | 89 | 445.00 | 637 |
| 129.00 | 136320 | 227.00 | 38464 | 320.00 | 333 | 451.00 | 110 |
| 130.00 | 11276 | 228.00 | 5497 | 321.00 | 1755 | | |

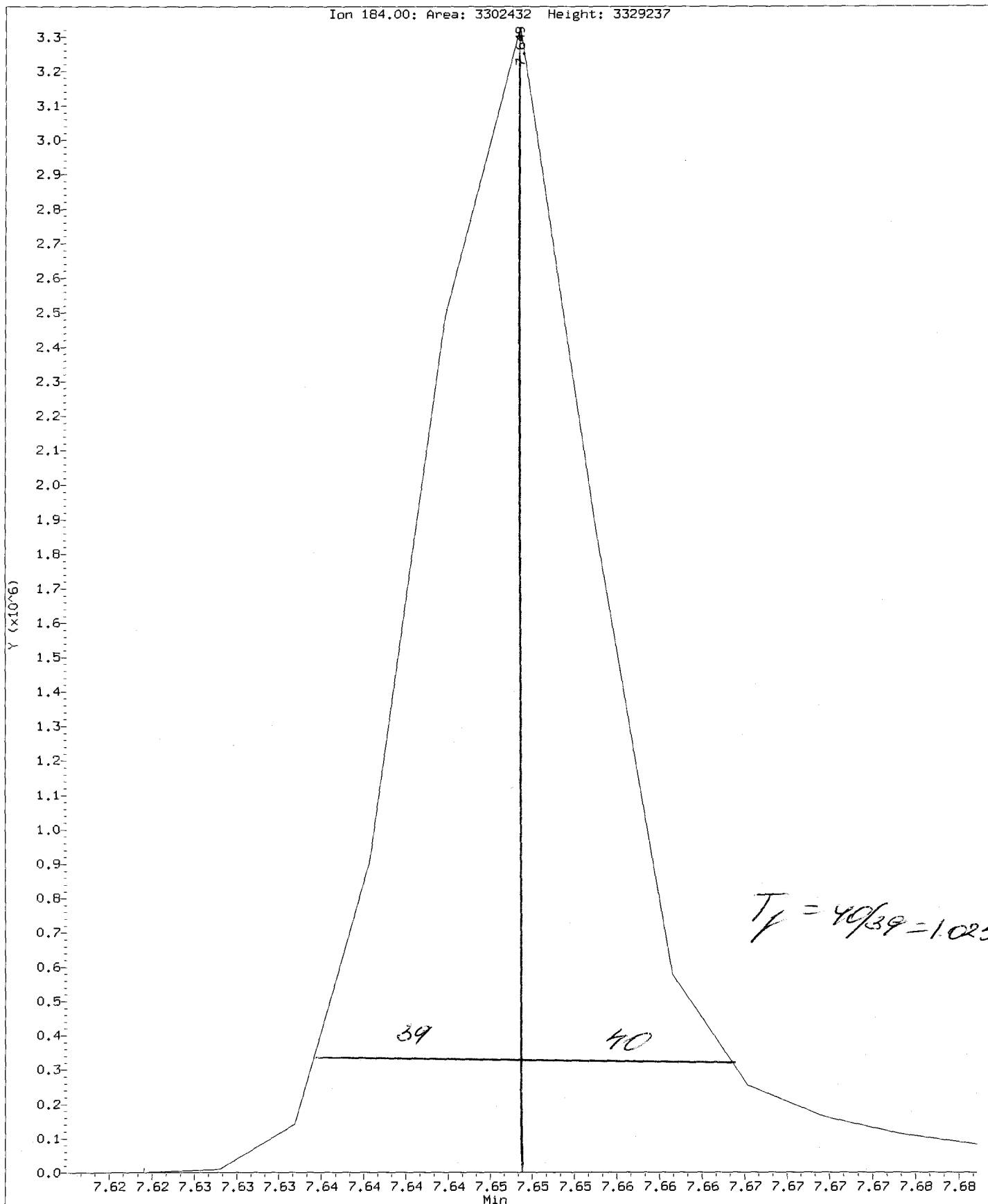
Data File: /chem1/nt10.i/20120529.b/ddt.b/df0529.d
Injection Date: 29-MAY-2012 10:46
Instrument: nt10.i
Client Sample ID: DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt10.i/20120529,b/ddt.b/df0529.d
Injection Date: 29-MAY-2012 10:46
Instrument: nt10.i
Client Sample ID: DFTPP

Compound: Benzidine
CAS Number:



U052 : 00630

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20120529.b/ddt.b/df0529.d ARI ID: DFTPP
Method: /chem1/nt10.i/20120529.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 29-MAY-2012 10:46 Instrument: nt10.i

| COMPOUND | RT | AREA |
|-------------------|-------|---------|
| Pentachlorophenol | 6.398 | 812061 |
| Benzidine | 7.649 | 3302432 |
| 4,4'-DDE | 7.826 | 10563 |
| 4,4'-DDD | 8.114 | 151282 |
| 4,4'-DDT | 8.366 | 1717734 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(10563 + 151282) * 100}{(10563 + 151282 + 1717734)}$$

$$\text{DDT Percent Breakdown} = 8.6 \%$$

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 29-MAY-2012 11:01
 Lab File ID: cc0529.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: CC0529 Quant Type: ISTD
 Method: /chem1/nt10.i/20120529.b/ABN.m

| COMPOUND | RRF / AMOUNT | | RF5 | CCAL | | MIN | | MAX | | CURVE TYPE |
|------------------------------|--------------|----------|----------|---------|-------|-------------|-------------|-------------|--|------------|
| | RRF | AMOUNT | | RRF5 | RRF | %D / %DRIFT | %D / %DRIFT | %D / %DRIFT | | |
| \$ 1 2-Fluorophenol | 1.39876 | | 1.34119 | 1.34119 | 0.010 | -4.11528 | 20.00000 | Averaged | | |
| \$ 2 Phenol-d5 | 1.74239 | | 1.64523 | 1.64523 | 0.010 | -5.57603 | 20.00000 | Averaged | | |
| 3 Phenol | 1.85722 | | 1.94971 | 1.94971 | 0.100 | 4.98041 | 20.00000 | Averaged | | |
| \$ 5 2-Chlorophenol-d4 | 1.52653 | | 1.48249 | 1.48249 | 0.010 | -2.88493 | 20.00000 | Averaged | | |
| 7 1,3-Dichlorobenzene | 1.64203 | | 1.65084 | 1.65084 | 0.010 | 0.53618 | 20.00000 | Averaged | | |
| 9 1,4-Dichlorobenzene | 1.60271 | | 1.58609 | 1.58609 | 0.010 | -1.03652 | 20.00000 | Averaged | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.00142 | | 1.01504 | 1.01504 | 0.010 | 1.36073 | 20.00000 | Averaged | | |
| 12 1,2-Dichlorobenzene | 1.56383 | | 1.58334 | 1.58334 | 0.010 | 1.24731 | 20.00000 | Averaged | | |
| 11 Benzyl alcohol | 0.78027 | | 0.79374 | 0.79374 | 0.010 | 1.72588 | 20.00000 | Averaged | | |
| 13 2-Methylphenol | 1.46378 | | 1.40738 | 1.40738 | 0.700 | -3.85319 | 20.00000 | Averaged | | |
| 17 Hexachloroethane | 0.62268 | | 0.65102 | 0.65102 | 0.300 | 4.55136 | 20.00000 | Averaged | | |
| 15 4-Methylphenol | 1.52714 | | 1.40714 | 1.40714 | 0.600 | -7.85829 | 20.00000 | Averaged | | |
| \$ 18 Nitrobenzene-d5 | 0.35840 | | 0.34441 | 0.34441 | 0.010 | -3.90172 | 20.00000 | Averaged | | |
| 22 2,4-Dimethylphenol | 0.35235 | | 0.35032 | 0.35032 | 0.200 | -0.57861 | 20.00000 | Averaged | | |
| 24 Benzoic acid | 19.65044 | 20.00000 | 20.00000 | 0.23344 | 0.010 | -1.74779 | 20.00000 | Quadratic | | |
| 26 1,2,4-Trichlorobenzene | 0.32265 | | 0.32673 | 0.32673 | 0.010 | 1.26439 | 20.00000 | Averaged | | |
| 28 Naphthalene | 1.00840 | | 1.01312 | 1.01312 | 0.100 | 0.46855 | 20.00000 | Averaged | | |
| 30 Hexachlorobutadiene | 0.17350 | | 0.17945 | 0.17945 | 0.010 | 3.43063 | 20.00000 | Averaged | | |
| 32 2-Methylnaphthalene | 0.70103 | | 0.72645 | 0.72645 | 0.300 | 3.62625 | 20.00000 | Averaged | | |
| \$ 36 2-Fluorobiphenyl | 1.38663 | | 1.37941 | 1.37941 | 0.010 | -0.52047 | 20.00000 | Averaged | | |
| 39 Dimethylphthalate | 1.22903 | | 1.22162 | 1.22162 | 0.010 | -0.60274 | 20.00000 | Averaged | | |
| 40 Acenaphthylene | 1.79648 | | 1.93961 | 1.93961 | 0.900 | 7.96742 | 20.00000 | Averaged | | |
| 44 Acenaphthene | 1.08358 | | 1.07103 | 1.07103 | 0.100 | -1.15842 | 20.00000 | Averaged | | |
| 46 Dibenzofuran | 1.58749 | | 1.59421 | 1.59421 | 0.800 | 0.42282 | 20.00000 | Averaged | | |
| 50 Diethylphthalate | 1.19817 | | 1.21675 | 1.21675 | 0.010 | 1.55135 | 20.00000 | Averaged | | |
| 49 Fluorene | 1.21637 | | 1.38809 | 1.38809 | 0.100 | 14.11698 | 20.00000 | Averaged | | |
| 54 N-Nitrosodiphenylamine | 0.53809 | | 0.51981 | 0.51981 | 0.010 | -3.39835 | 20.00000 | Averaged | | |
| \$ 55 2,4,6-Tribromophenol | 0.16510 | | 0.17606 | 0.17606 | 0.010 | 6.63950 | 20.00000 | Averaged | | |
| 57 Hexachlorobenzene | 0.24689 | | 0.24013 | 0.24013 | 0.100 | -2.74149 | 20.00000 | Averaged | | |
| 58 Pentachlorophenol | 9.60937 | 10.00000 | 10.00000 | 0.12482 | 0.010 | -3.90626 | 20.00000 | Quadratic | | |
| 60 Phenanthrene | 1.03144 | | 1.01670 | 1.01670 | 0.700 | -1.42934 | 20.00000 | Averaged | | |
| 61 Anthracene | 1.07748 | | 1.09533 | 1.09533 | 0.700 | 1.65598 | 20.00000 | Averaged | | |
| 63 Di-n-butylphthalate | 1.40311 | | 1.45985 | 1.45985 | 0.010 | 4.04394 | 20.00000 | Averaged | | |
| 64 Fluoranthene | 1.17111 | | 1.18912 | 1.18912 | 0.600 | 1.53810 | 20.00000 | Averaged | | |
| 65 Pyrene | 1.21707 | | 1.24402 | 1.24402 | 0.600 | 2.21454 | 20.00000 | Averaged | | |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 29-MAY-2012 11:01
 Lab File ID: cc0529.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: CC0529 Quant Type: ISTD
 Method: /chem1/nt10.i/20120529.b/ABN.m

| COMPOUND | RRF / AMOUNT | | RF5 | CCAL | MIN | MAX | | CURVE TYPE |
|-------------------------------|--------------|--------|---------|---------|-------|-------------|-------------|------------|
| | RRF | AMOUNT | | RRF5 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 66 Terphenyl-d14 | 0.76242 | | 0.74876 | 0.74876 | 0.010 | -1.79197 | 20.00000 | Averaged |
| 67 Butylbenzylphthalate | 0.56457 | | 0.57293 | 0.57293 | 0.010 | 1.48103 | 20.00000 | Averaged |
| 68 Benzo(a)anthracene | 1.12516 | | 1.11353 | 1.11353 | 0.700 | -1.03386 | 20.00000 | Averaged |
| 71 Chrysene | 0.98981 | | 0.99224 | 0.99224 | 0.700 | 0.24562 | 20.00000 | Averaged |
| 72 bis(2-Ethylhexyl)phthalate | 0.54931 | | 0.54741 | 0.54741 | 0.010 | -0.34451 | 20.00000 | Averaged |
| 73 Di-n-octylphthalate | 0.97317 | | 0.96145 | 0.96145 | 0.010 | -1.20418 | 20.00000 | Averaged |
| 76 Benzo(a)pyrene | 1.03427 | | 1.01636 | 1.01636 | 0.700 | -1.73162 | 20.00000 | Averaged |
| 78 Indeno(1,2,3-cd)pyrene | 1.19637 | | 1.24552 | 1.24552 | 0.500 | 4.10749 | 20.00000 | Averaged |
| 79 Dibenzo(a,h)anthracene | 0.94241 | | 0.99900 | 0.99900 | 0.400 | 6.00474 | 20.00000 | Averaged |
| 80 Benzo(g,h,i)perylene | 1.02591 | | 1.06068 | 1.06068 | 0.500 | 3.38972 | 20.00000 | Averaged |
| 105 1-methylnaphthalene | 0.71493 | | 0.74980 | 0.74980 | 0.010 | 4.87717 | 20.00000 | Averaged |
| 187 Total Benzofluoranthenes | 1.10989 | | 1.08687 | 1.08687 | 0.010 | -2.07392 | 20.00000 | Averaged |
| 98 Retene | 0.56674 | | 0.57909 | 0.57909 | 0.010 | 2.17888 | 20.00000 | Averaged |

Analytical Resources, Inc.

Semivolatible Report SW846 Method 8270D

YZ 5/30/12

Data file : /chem1/nt10.i/20120529.b/cc0529.d
 Lab Smp Id: CC0529
 Inj Date : 29-MAY-2012 11:01
 Operator : VTS/YZ
 Smp Info : CC0529
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120529.b/ABN.m
 Meth Date : 30-May-2012 12:34 yev
 Cal Date : 26-MAY-2012 14:42
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526g.d
 Continuing Calibration Sample
 Compound Sublist: SHORTPSDDA.sub

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|------------------------------|-----------|--------|---------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.560 | 6.560 | (0.740) | 337752 | 5.00000 | 4.794 |
| \$ 2 Phenol-d5 | 99 | 8.260 | 8.260 | (0.932) | 414319 | 5.00000 | 4.721 |
| 3 Phenol | 94 | 8.283 | 8.283 | (0.935) | 490996 | 5.00000 | 5.249 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.492 | 8.492 | (0.958) | 373335 | 5.00000 | 4.856 |
| 7 1,3-Dichlorobenzene | 146 | 8.794 | 8.794 | (0.992) | 415730 | 5.00000 | 5.027 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.863 | (1.000) | 201464 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.894 | 8.894 | (1.003) | 399426 | 5.00000 | 4.948 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.244 | 9.244 | (1.043) | 255618 | 5.00000 | 5.068 |
| 12 1,2-Dichlorobenzene | 146 | 9.275 | 9.275 | (1.046) | 398732 | 5.00000 | 5.062 |
| 11 Benzyl alcohol | 108 | 9.182 | 9.182 | (1.036) | 199887 | 5.00000 | 5.086 |
| 13 2-Methylphenol | 108 | 9.453 | 9.453 | (1.067) | 354420 | 5.00000 | 4.807 |
| 17 Hexachloroethane | 117 | 9.896 | 9.896 | (1.116) | 163946 | 5.00000 | 5.228 |
| 15 4-Methylphenol | 108 | 9.748 | 9.748 | (1.100) | 354359 | 5.00000 | 4.607 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.035 | 10.035 | (0.872) | 336278 | 5.00000 | 4.805 |
| 22 2,4-Dimethylphenol | 107 | 10.857 | 10.857 | (0.943) | 684084 | 10.00000 | 9.942 |
| 24 Benzoic acid | 105 | 11.126 | 11.126 | (0.966) | 911702 | 20.00000 | 19.65 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.427 | 11.427 | (0.993) | 319012 | 5.00000 | 5.063 |
| * 27 Naphthalene-d8 | 136 | 11.512 | 11.512 | (1.000) | 781105 | 4.00000 | |
| 28 Naphthalene | 128 | 11.550 | 11.550 | (1.003) | 989196 | 5.00000 | 5.023 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.952 | (1.038) | 175210 | 5.00000 | 5.172 |
| 32 2-Methylnaphthalene | 142 | 13.051 | 13.051 | (1.134) | 709290 | 5.00000 | 5.181 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.910 | 13.910 | (0.904) | 777543 | 5.00000 | 4.974 |
| 39 Dimethylphthalate | 163 | 14.909 | 14.909 | (0.969) | 688603 | 5.00000 | 4.970 |
| 40 Acenaphthylene | 152 | 15.048 | 15.048 | (0.978) | 1093320 | 5.00000 | 5.398 |
| * 42 Acenaphthene-d10 | 164 | 15.388 | 15.388 | (1.000) | 450943 | 4.00000 | |
| 44 Acenaphthene | 153 | 15.458 | 15.458 | (1.005) | 603718 | 5.00000 | 4.942 |
| 46 Dibenzofuran | 168 | 15.813 | 15.813 | (1.028) | 898620 | 5.00000 | 5.021 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 50 Diethylphthalate | 149 | 16.478 | 16.478 | (1.071) | 685858 | 5.00000 | 5.078 |
| 49 Fluorene | 166 | 16.579 | 16.579 | (1.077) | 782436 | 5.00000 | 5.706 |
| 54 N-Nitrosodiphenylamine | 169 | 16.872 | 16.872 | (0.905) | 453312 | 5.00000 | 4.830 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.157 | 17.157 | (1.115) | 99242 | 5.00000 | 5.332 |
| 57 Hexachlorobenzene | 284 | 17.991 | 17.991 | (0.965) | 209409 | 5.00000 | 4.863 |
| 58 Pentachlorophenol | 266 | 18.394 | 18.394 | (0.986) | 217704 | 10.0000 | 9.609 |
| * 59 Phenanthrene-d10 | 188 | 18.649 | 18.649 | (1.000) | 697664 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.703 | 18.703 | (1.003) | 886645 | 5.00000 | 4.929 |
| 61 Anthracene | 178 | 18.796 | 18.796 | (1.008) | 955213 | 5.00000 | 5.083 |
| 63 Di-n-butylphthalate | 149 | 20.018 | 20.018 | (1.073) | 1273108 | 5.00000 | 5.202 |
| 64 Fluoranthene | 202 | 21.117 | 21.117 | (1.132) | 1037007 | 5.00000 | 5.077 |
| 65 Pyrene | 202 | 21.535 | 21.535 | (0.908) | 1097648 | 5.00000 | 5.111 |
| \$ 66 Terphenyl-d14 | 244 | 21.852 | 21.852 | (0.921) | 660661 | 5.00000 | 4.910 |
| 67 Butylbenzylphthalate | 149 | 22.797 | 22.797 | (0.961) | 505517 | 5.00000 | 5.074 |
| 68 Benzo(a)anthracene | 228 | 23.695 | 23.695 | (0.999) | 982513 | 5.00000 | 4.948 |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 705871 | 4.00000 | |
| 71 Chrysene | 228 | 23.765 | 23.765 | (1.002) | 875490 | 5.00000 | 5.012 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 754661 | 5.00000 | 4.983 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.802 | 24.802 | (1.000) | 1102875 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.817 | 24.817 | (1.001) | 1325456 | 5.00000 | 4.940 |
| 76 Benzo(a)pyrene | 252 | 26.025 | 26.025 | (0.996) | 895485 | 5.00000 | 4.913 |
| * 77 Perylene-d12 | 264 | 26.126 | 26.126 | (1.000) | 704858 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.389 | 28.389 | (1.087) | 1097390 | 5.00000 | 5.205 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.396 | 28.396 | (1.087) | 880196 | 5.00000 | 5.300 |
| 80 Benzo(g,h,i)perylene | 276 | 29.041 | 29.041 | (1.112) | 934538 | 5.00000 | 5.169 |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.291 | (1.155) | 732093 | 5.00000 | 5.244 |
| 187 Total Benzofluoranthenes | 252 | 25.506 | 25.506 | (0.976) | 1915228 | 10.0000 | 9.793 |
| 98 Retene | 219 | 22.146 | 22.146 | (0.933) | 510955 | 5.00000 | 5.109 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: cc0529.d
 Lab Smp Id: CC0529
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info:

Calibration Date: 29-MAY-2012
 Calibration Time: 11:01
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 201464 | 6.30 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 781105 | 6.86 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 450943 | 7.19 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 697664 | 9.19 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 705871 | 9.43 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1102875 | 8.54 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 704858 | 8.43 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.65 | 18.15 | 19.15 | 18.65 | 0.00 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.80 | 24.30 | 25.30 | 24.80 | 0.00 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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.

Date : 29-MAY-2012 11:01

Client ID:

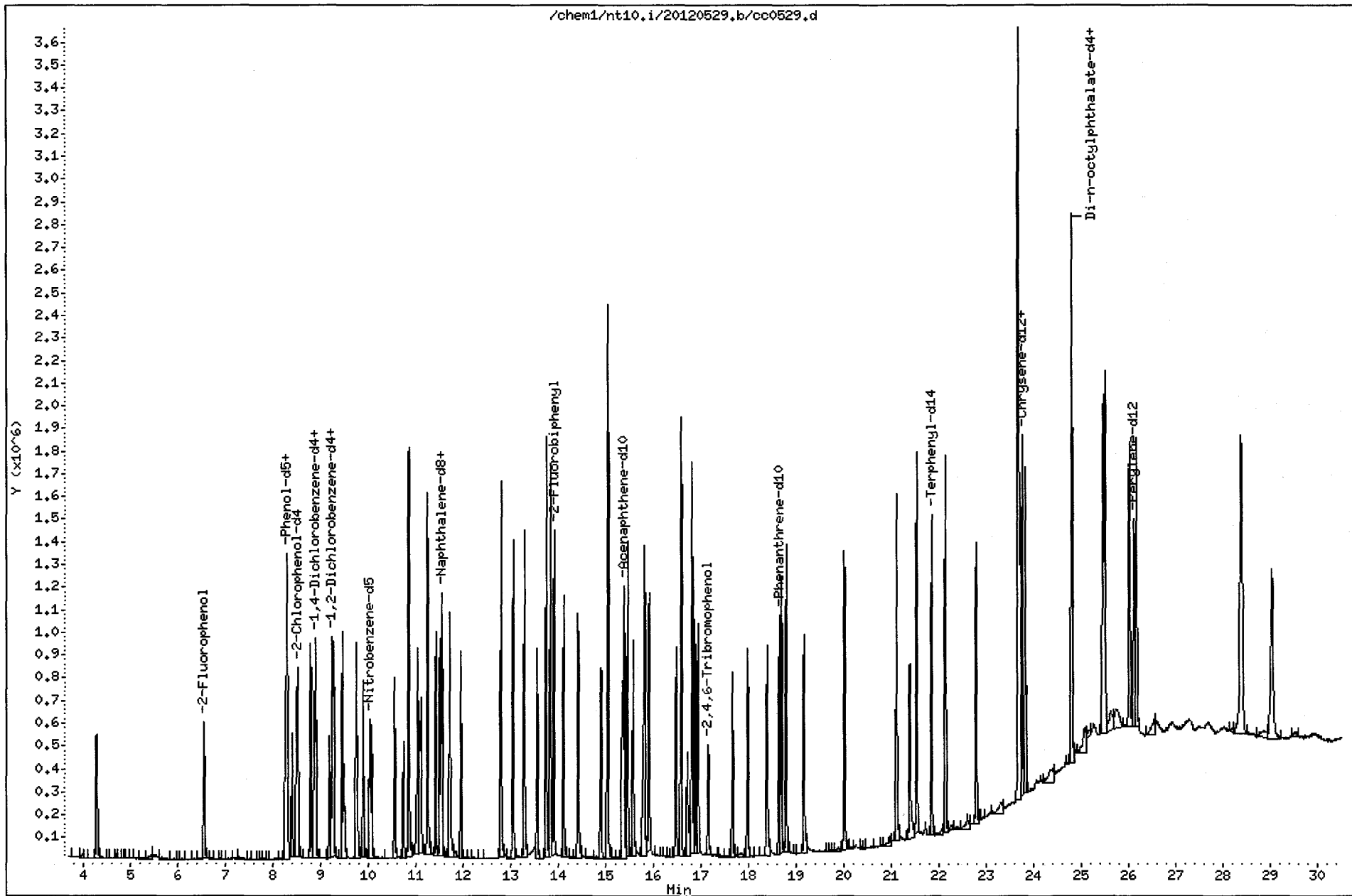
Sample Info: CC0529

Instrument: nt10.i

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UJ52:00637

CO-ELUTION SUMMARY FOR FILE - cc0529.d

Lab ID: CC0529, Method: ABN.m, Instrument: nt10.i, Date: 29-MAY-2012

RT CO-ELUTION COMPOUNDS



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: UU52 Client ID: Anebor QEA

ARI SOP: 801S(SIM-PNA) 802S(Butyl Tins) 804S(SVOA-8270D) 805S(op-Pest)

Parameter(s): SVOA Pesticide

Instrument: NT-4 NT-6 NT-8 NT-10 NT11 NT12

Curve Date: 5/26/12 Analysis Start Date: 5/24/12

| | | | |
|--------------------------------|------------------------|-----------------------------------|----------------------|
| DFTPP Tune Meets Criteria? | <u>YES</u> / NO | Internal Standard Meets Criteria? | <u>YES</u> / NO |
| DDT Breakdown <20%? | <u>YES</u> / NO / NA | Method Blank In Control? | <u>YES</u> / NO |
| Peak Tailing Factor ≤2? | <u>YES</u> / NO / NA | LCS / LCSD Recovery In Control? | <u>YES</u> / NO |
| ICal acceptable? | <u>YES</u> / NO | CCal acceptable? | <u>YES</u> / NO |
| Q flag applied? | <u>YES</u> / <u>NO</u> | Q flag applied? | <u>YES</u> / NO |
| Surrogate Recovery in Control? | <u>YES</u> / NO | Special Analysis Criteria Met? | <u>YES</u> / NO / NA |
| Manual Integrations for ICal? | YES / NO | Manual Integrations for Samples? | <u>Yes</u> / NO |

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

All samples were run @ 3x dilution due to dark color of the extracts. High Matrix BKG.
Sample C was re-run @ 6x dilution due to high concentration of naphthalene.
Extremely Wet Samples (marsh) 90% 15H wet
(p, n-Octyl phthate) US to MDC. No Sample Htzs found

Additional Details on Reverse: Yes / NO

Analyst: YZ Date: 5/31/12

Reviewer: [Signature] Date: 6/4/12

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 5/26/12 Analysis: ABN Analyst: VK/YZ
 GC Program: ABN2 Column No: 227815 Column Type: ZB5 msi
 Instrument Tune (.U or .CT.): 11/2/64 EM Voltage: 1800
 Calibration File: DF0514 Curve Date: 5/26/12 Injection Vol.: 1.0

| IS/SS | Ical/Ccal | LCS/ICV |
|--------|---------------|---------|
| 1875-1 | 1949-2 1891-2 | 1941-1 |
| | 1950-1 1892-1 | 1940-1 |
| | | 1932-2 |
| | | |
| | | |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20120526.b

| Time | Filename | LabID | ClientID | DF | | | | | | | | | | | | | | | |
|------|----------|------------|-----------|--------------|---|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|-------|---------|
| 1 | 1044 | df0526.d | DFTPP | DFTPP | 1 | NO ISTDS FOUND | | | | | | | | | | | | | |
| 2 | 1059 | ic0526a.d | ABN5 | | 1 | 8.86 | 189516 | 11.50 | 730932 | 15.37 | 420698 | 18.63 | 638950 | 23.71 | 645065 | 26.10 | 650033 | 24.79 | 1016118 |
| 3 | 1136 | ic0526b.d | ABN20 | | 1 | 8.86 | 184424 | 21.50 | 732078 | 15.38 | 416049 | 18.64 | 604660 | 23.71 | 638131 | 26.11 | 642084 | 24.80 | 1045968 |
| 4 | 1213 | ic0526c.d | ABN.2 | | 1 | 8.86 | 196685 | 11.50 | 765616 | 15.37 | 413229 | 18.63 | 646258 | 23.70 | 644080 | 26.10 | 645156 | 24.79 | 952925 |
| 5 | 1250 | ic0526d.d | ABN10 | | 1 | 8.86 | 182402 | 11.50 | 714951 | 15.38 | 396335 | 18.64 | 598080 | 23.71 | 620456 | 26.10 | 621376 | 24.79 | 977954 |
| 6 | 1327 | ic0526e.d | ABN.5 | | 1 | 8.86 | 190457 | 11.50 | 743799 | 15.37 | 404393 | 18.63 | 632241 | 23.70 | 634764 | 26.10 | 624951 | 24.79 | 934301 |
| 7 | 1405 | ic0526f.d | ABN2.5 | | 1 | 8.86 | 187226 | 11.50 | 736534 | 15.37 | 398626 | 18.63 | 624933 | 23.70 | 619154 | 26.10 | 625787 | 24.79 | 927369 |
| 8 | 1442 | ic0526g.d | ABN1.0 | | 1 | 8.86 | 193887 | 11.50 | 750391 | 15.37 | 411692 | 18.63 | 635080 | 23.70 | 638910 | 26.10 | 628310 | 24.79 | 937949 |
| 9 | 1519 | icv0526.d | ICV-5 | | 1 | 8.86 | 249364 | 11.50 | 989810 | 15.37 | 545323 | 18.63 | 840695 | 23.71 | 872921 | 26.10 | 859333 | 24.79 | 1354341 |
| 10 | 1556 | uu52mb.d | UU52MBS1 | UU52MBS1 | 1 | 8.86 | 192270 | 11.50 | 755212 | 15.36 | 409923 | 18.63 | 652568 | 23.70 | 628746 | 24.79 | 911710 | 26.10 | 575994 |
| 11 | 1634 | uu52ab.d | UU52LCSB1 | UU52LCSB1 | 1 | 8.86 | 180960 | 11.50 | 713226 | 15.37 | 402827 | 18.63 | 613172 | 23.70 | 610564 | 24.79 | 927500 | 26.10 | 601200 |
| 12 | 1711 | uu52a.d | UU52A | MS001-SS-120 | 3 | 8.86 | 192479 | 11.50 | 766868 | 15.37 | 424558 | 18.64 | 586032 | 23.71 | 664578 | 24.79 | 1081857 | 26.11 | 673821 |
| 13 | 1748 | uu52b.d | UU52B | MS101-SS-120 | 3 | 8.86 | 191331 | 11.50 | 774622 | 15.38 | 431955 | 18.64 | 601035 | 23.72 | 668327 | 24.80 | 1085453 | 26.12 | 667061 |
| 14 | 1825 | uu52c.d | UU52C | MS002-SS-120 | 3 | 8.86 | 189793 | 11.50 | 762840 | 15.38 | 421087 | 18.64 | 644641 | 23.72 | 673614 | 24.80 | 1081717 | 26.12 | 665077 |
| 15 | 1902 | uu52d.d | UU52D | MS003-SS-120 | 3 | 8.86 | 195684 | 11.50 | 781696 | 15.38 | 433584 | 18.64 | 608068 | 23.72 | 705866 | 24.80 | 1095300 | 26.12 | 688484 |
| 16 | 1939 | uu52e.d | UU52E | MS004-SS-120 | 3 | 8.86 | 197248 | 11.50 | 788940 | 15.38 | 430674 | 18.64 | 660353 | 23.72 | 700903 | 24.80 | 1104559 | 26.12 | 683374 |
| 17 | 2016 | uu52f.d | UU52F | MS005-SS-120 | 3 | 8.86 | 190373 | 11.51 | 742174 | 15.39 | 431594 | 18.66 | 643967 | 23.73 | 721119 | 24.81 | 1107167 | 26.14 | 669438 |
| 18 | 2054 | uu52g.d | UU52G | MS006-SS-120 | 3 | 8.86 | 189614 | 11.51 | 736251 | 15.38 | 426687 | 18.65 | 605251 | 23.72 | 696152 | 24.81 | 1081407 | 26.13 | 658886 |
| 19 | 2131 | uu52h.d | UU52H | MS007-SS-120 | 3 | 8.86 | 194227 | 11.51 | 756334 | 15.39 | 437900 | 18.66 | 626572 | 23.73 | 703620 | 24.81 | 1121633 | 26.13 | 665896 |
| 20 | 2208 | uu52hms.d | UU52HMS | MS007-SS-120 | 3 | 8.86 | 189708 | 11.51 | 749764 | 15.39 | 426739 | 18.66 | 614981 | 23.73 | 691706 | 24.81 | 1104162 | 26.13 | 671591 |
| 21 | 2245 | uu52hmsd.d | UU52HMSD | MS007-SS-120 | 3 | 8.86 | 190489 | 11.50 | 741504 | 15.39 | 417132 | 18.66 | 622626 | 23.73 | 711179 | 24.81 | 1127612 | 26.13 | 667595 |

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

YZ-5/31/12
 Version 002
 9/15/11

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt10.i/20120526.b

ARI Job No.: UU52 Method: ABN.m Instrument: nt10.i Date: 26-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|------------|----|---|
| 1556 | uu52mb.d | UU52MBS1 | UU52MBS1 | 1 | NO MANUAL INTEGRATION |
| 1634 | uu52sb.d | UU52LCSS1 | UU52LCSS1 | 1 | NO MANUAL INTEGRATION |
| 1711 | uu52a.d | UU52A | MS001-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1748 | uu52b.d | UU52B | MS101-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1825 | uu52c.d | UU52C | MS002-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1902 | uu52d.d | UU52D | MS003-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1939 | uu52e.d | UU52E | MS004-SS-1 | 3 | NO MANUAL INTEGRATION |
| 2016 | uu52f.d | UU52F | MS005-SS-1 | 3 | 2-Methylphenol, Acenaphthylene, Dibenzo(a,h)anthracene, |
| 2054 | uu52g.d | UU52G | MS006-SS-1 | 3 | Acenaphthylene, Phenanthrene, Dibenzo(a,h)anthracene, |
| 2131 | uu52h.d | UU52H | MS007-SS-1 | 3 | Acenaphthylene, Dibenzo(a,h)anthracene, |
| 1141 | uu52hms.d | UU52HMS | MS007-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1219 | uu52hmsd.d | UU52HMSD | MS007-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1256 | uu52i.d | UU52I | MS008-SS-1 | 3 | Acenaphthylene, Dibenzo(a,h)anthracene, |
| 1333 | uu52j.d | UU52J | MS009-SS-1 | 3 | NO MANUAL INTEGRATION |
| 1304 | uu52g6.d | UU52G | MS006-SS-1 | 6 | Acenaphthylene, Dibenzo(a,h)anthracene, |

UU52:00641

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt10.i/20120526.b

Instrument: nt10.i Date: 26-MAY-2012 Method: ABN.m

INITIAL CAL: 26-MAY-2012

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

CONTINUING CAL: 26-MAY-2012

| Compound | %D |
|------------|----|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

Data File: /chem1/nt10.i/20120526.b/df0526.d

Page 1

Date : 26-MAY-2012 10:44

Client ID: DFTPP

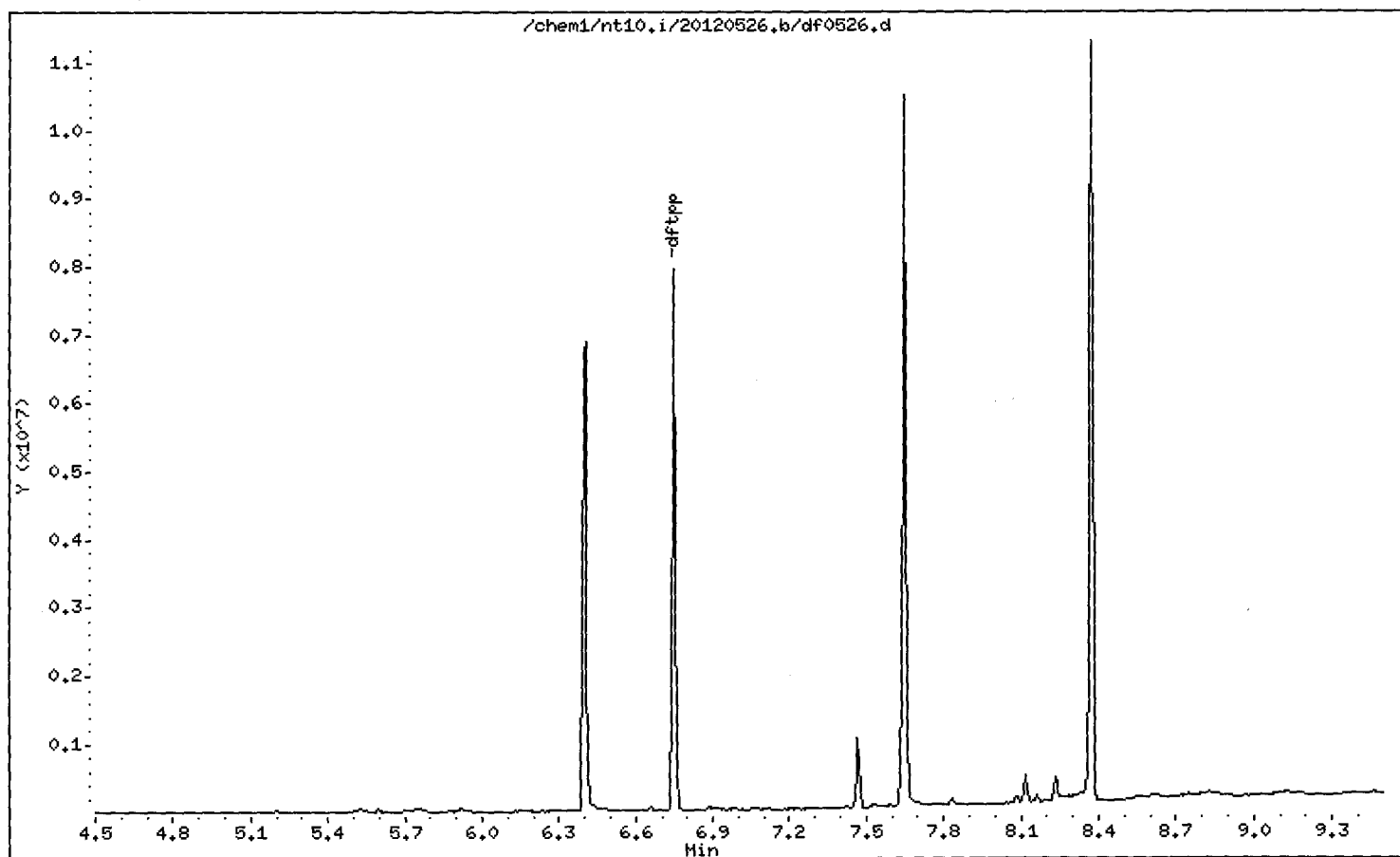
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



0052:00643

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

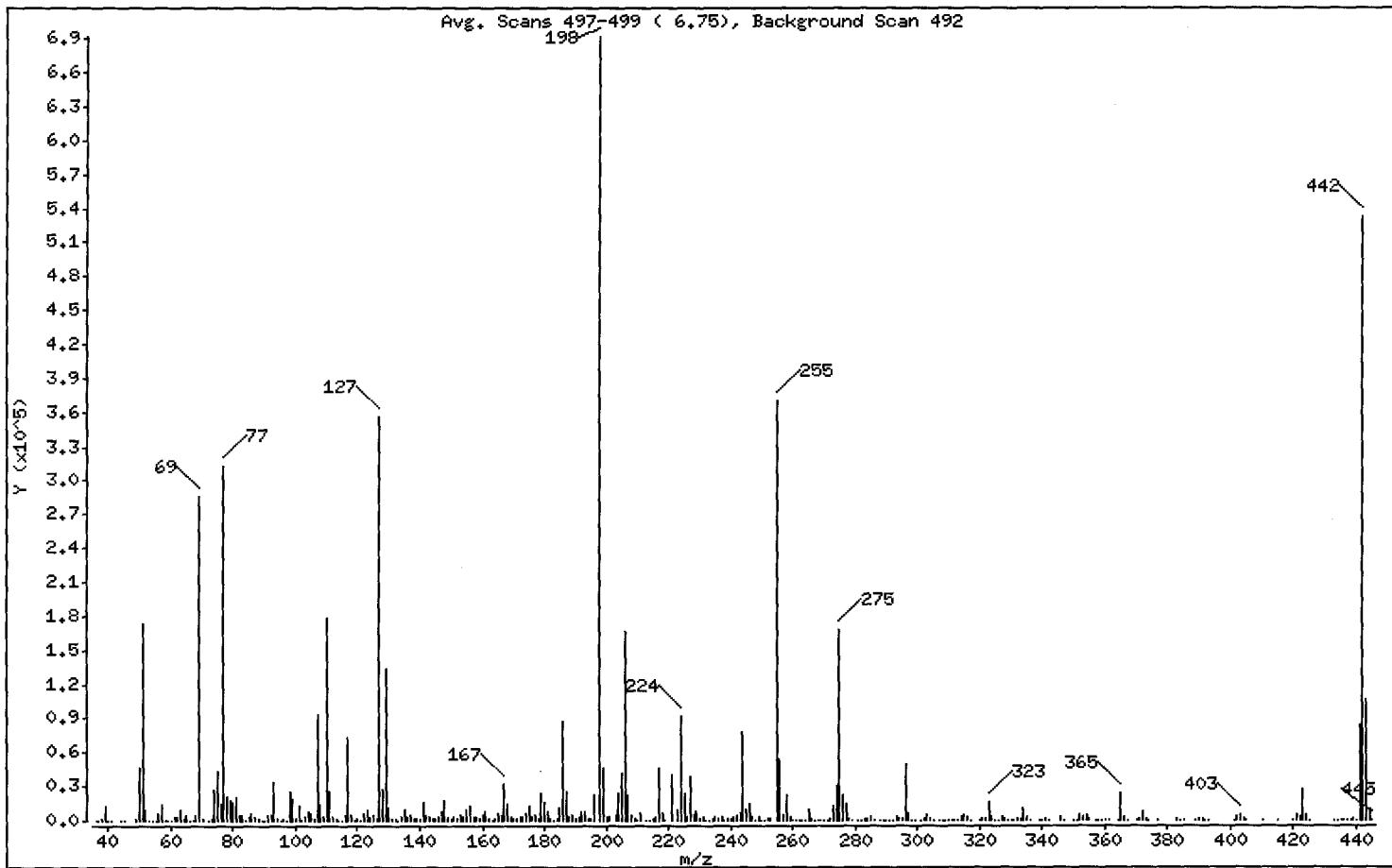
Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 25.07 |
| 68 | Less than 2.00% of mass 69 | 0.60 (1.45) |
| 69 | Mass 69 relative abundance | 41.32 |
| 70 | Less than 2.00% of mass 69 | 0.16 (0.40) |
| 127 | 10.00 - 80.00% of mass 198 | 51.51 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.70 |
| 275 | 10.00 - 60.00% of mass 198 | 24.35 |
| 365 | Greater than 1.00% of mass 198 | 3.46 |
| 441 | 0.01 - 24.00% of mass 442 | 12.16 (15.78) |
| 442 | 50.00 - 200.00% of mass 198 | 77.09 |
| 443 | 15.00 - 24.00% of mass 442 | 15.36 (19.93) |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0526.d
 Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492
 Location of Maximum: 198.00
 Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36,00 | 26 | 129,00 | 133888 | 219,00 | 609 | 313,00 | 521 |
| 37,00 | 738 | 130,00 | 10870 | 221,00 | 40088 | 314,00 | 2625 |
| 38,00 | 2259 | 131,00 | 2053 | 223,00 | 10237 | 315,00 | 5121 |
| 39,00 | 13341 | 132,00 | 1262 | 224,00 | 92880 | 316,00 | 2893 |
| 40,00 | 569 | 133,00 | 466 | 225,00 | 23296 | 317,00 | 637 |
| 41,00 | 216 | 134,00 | 3414 | 226,00 | 2573 | 320,00 | 235 |
| 44,00 | 149 | 135,00 | 9909 | 227,00 | 38288 | 321,00 | 1663 |
| 45,00 | 367 | 136,00 | 3935 | 228,00 | 5304 | 322,00 | 1109 |
| 49,00 | 1189 | 137,00 | 4873 | 229,00 | 7998 | 323,00 | 15465 |
| 50,00 | 46176 | 138,00 | 1128 | 230,00 | 1358 | 324,00 | 2751 |
| 51,00 | 173504 | 139,00 | 805 | 231,00 | 3474 | 325,00 | 323 |
| 52,00 | 9398 | 140,00 | 1603 | 232,00 | 716 | 326,00 | 455 |
| 53,00 | 300 | 141,00 | 15489 | 233,00 | 661 | 327,00 | 3101 |
| 54,00 | 229 | 142,00 | 5414 | 234,00 | 2342 | 328,00 | 1494 |
| 55,00 | 448 | 143,00 | 3720 | 235,00 | 2777 | 329,00 | 370 |
| 56,00 | 6014 | 144,00 | 1136 | 236,00 | 2141 | 330,00 | 56 |
| 57,00 | 13761 | 145,00 | 942 | 237,00 | 3010 | 331,00 | 197 |
| 58,00 | 408 | 146,00 | 2786 | 238,00 | 564 | 332,00 | 1250 |
| 59,00 | 179 | 147,00 | 8163 | 239,00 | 1494 | 333,00 | 1705 |
| 60,00 | 272 | 148,00 | 18016 | 240,00 | 1176 | 334,00 | 10488 |
| 61,00 | 2630 | 149,00 | 3469 | 241,00 | 2531 | 335,00 | 2517 |
| 62,00 | 3433 | 150,00 | 842 | 242,00 | 5295 | 336,00 | 303 |
| 63,00 | 9251 | 151,00 | 2529 | 243,00 | 6077 | 339,00 | 186 |
| 64,00 | 1297 | 152,00 | 1040 | 244,00 | 78016 | 340,00 | 284 |
| 65,00 | 4742 | 153,00 | 4885 | 245,00 | 9692 | 341,00 | 2021 |
| 66,00 | 167 | 154,00 | 3744 | 246,00 | 14024 | 342,00 | 519 |
| 67,00 | 487 | 155,00 | 9049 | 247,00 | 2921 | 346,00 | 3558 |
| 68,00 | 4159 | 156,00 | 13247 | 248,00 | 765 | 347,00 | 600 |
| 69,00 | 285952 | 157,00 | 2827 | 249,00 | 2660 | 350,00 | 271 |
| 70,00 | 1139 | 158,00 | 2845 | 250,00 | 607 | 351,00 | 343 |
| 72,00 | 190 | 159,00 | 2353 | 251,00 | 678 | 352,00 | 4486 |
| 73,00 | 1995 | 160,00 | 5145 | 252,00 | 867 | 353,00 | 3227 |
| 74,00 | 27632 | 161,00 | 7274 | 253,00 | 1909 | 354,00 | 4155 |
| 75,00 | 43448 | 162,00 | 2140 | 255,00 | 370304 | 355,00 | 808 |
| 76,00 | 14823 | 163,00 | 679 | 256,00 | 54880 | 357,00 | 121 |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0526.d

Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492

Location of Maximum: 198.00

Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 77.00 | 313792 | 164.00 | 1059 | 257.00 | 4329 | 358.00 | 52 |
| 78.00 | 20888 | 165.00 | 5892 | 258.00 | 21480 | 359.00 | 426 |
| 79.00 | 18144 | 166.00 | 5005 | 259.00 | 3568 | 360.00 | 59 |
| 80.00 | 15251 | 167.00 | 32544 | 260.00 | 602 | 361.00 | 119 |
| 81.00 | 20912 | 168.00 | 13737 | 261.00 | 620 | 364.00 | 104 |
| 82.00 | 5239 | 169.00 | 2539 | 262.00 | 127 | 365.00 | 23944 |
| 83.00 | 4808 | 170.00 | 1075 | 263.00 | 188 | 366.00 | 3294 |
| 84.00 | 129 | 171.00 | 1308 | 264.00 | 584 | 367.00 | 152 |
| 85.00 | 3163 | 172.00 | 2874 | 265.00 | 8905 | 370.00 | 494 |
| 86.00 | 5793 | 173.00 | 3665 | 266.00 | 1076 | 371.00 | 1374 |
| 87.00 | 2776 | 174.00 | 6643 | 267.00 | 74 | 372.00 | 7891 |
| 88.00 | 1151 | 175.00 | 12622 | 268.00 | 51 | 373.00 | 1946 |
| 89.00 | 520 | 176.00 | 3756 | 269.00 | 229 | 374.00 | 236 |
| 90.00 | 65 | 177.00 | 5429 | 270.00 | 372 | 377.00 | 229 |
| 91.00 | 4623 | 178.00 | 1805 | 271.00 | 793 | 383.00 | 2132 |
| 92.00 | 5132 | 179.00 | 23488 | 272.00 | 1269 | 384.00 | 670 |
| 93.00 | 33360 | 180.00 | 15572 | 273.00 | 12611 | 385.00 | 117 |
| 94.00 | 2216 | 181.00 | 7701 | 274.00 | 29880 | 389.00 | 52 |
| 95.00 | 380 | 182.00 | 1110 | 275.00 | 168512 | 390.00 | 1125 |
| 96.00 | 1107 | 183.00 | 491 | 276.00 | 22000 | 391.00 | 839 |
| 97.00 | 21 | 184.00 | 1983 | 277.00 | 13717 | 392.00 | 587 |
| 98.00 | 25000 | 185.00 | 11629 | 278.00 | 2058 | 393.00 | 55 |
| 99.00 | 19064 | 186.00 | 88272 | 279.00 | 511 | 401.00 | 443 |
| 100.00 | 1716 | 187.00 | 24768 | 281.00 | 116 | 402.00 | 2867 |
| 101.00 | 12840 | 188.00 | 2490 | 282.00 | 481 | 403.00 | 4359 |
| 102.00 | 537 | 189.00 | 5139 | 283.00 | 1659 | 404.00 | 1567 |
| 103.00 | 3931 | 190.00 | 951 | 284.00 | 1165 | 405.00 | 170 |
| 104.00 | 7795 | 191.00 | 2619 | 285.00 | 2561 | 410.00 | 58 |
| 105.00 | 6943 | 192.00 | 7480 | 286.00 | 616 | 415.00 | 299 |
| 106.00 | 2109 | 193.00 | 8529 | 288.00 | 167 | 420.00 | 73 |
| 107.00 | 94312 | 194.00 | 1572 | 289.00 | 565 | 421.00 | 4081 |
| 108.00 | 14776 | 195.00 | 1022 | 290.00 | 563 | 422.00 | 3772 |
| 109.00 | 2699 | 196.00 | 22624 | 291.00 | 337 | 423.00 | 27824 |
| 110.00 | 178432 | 198.00 | 692096 | 292.00 | 692 | 424.00 | 5405 |
| 111.00 | 26104 | 199.00 | 46376 | 293.00 | 3255 | 425.00 | 517 |

Date : 26-MAY-2012 10:44

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

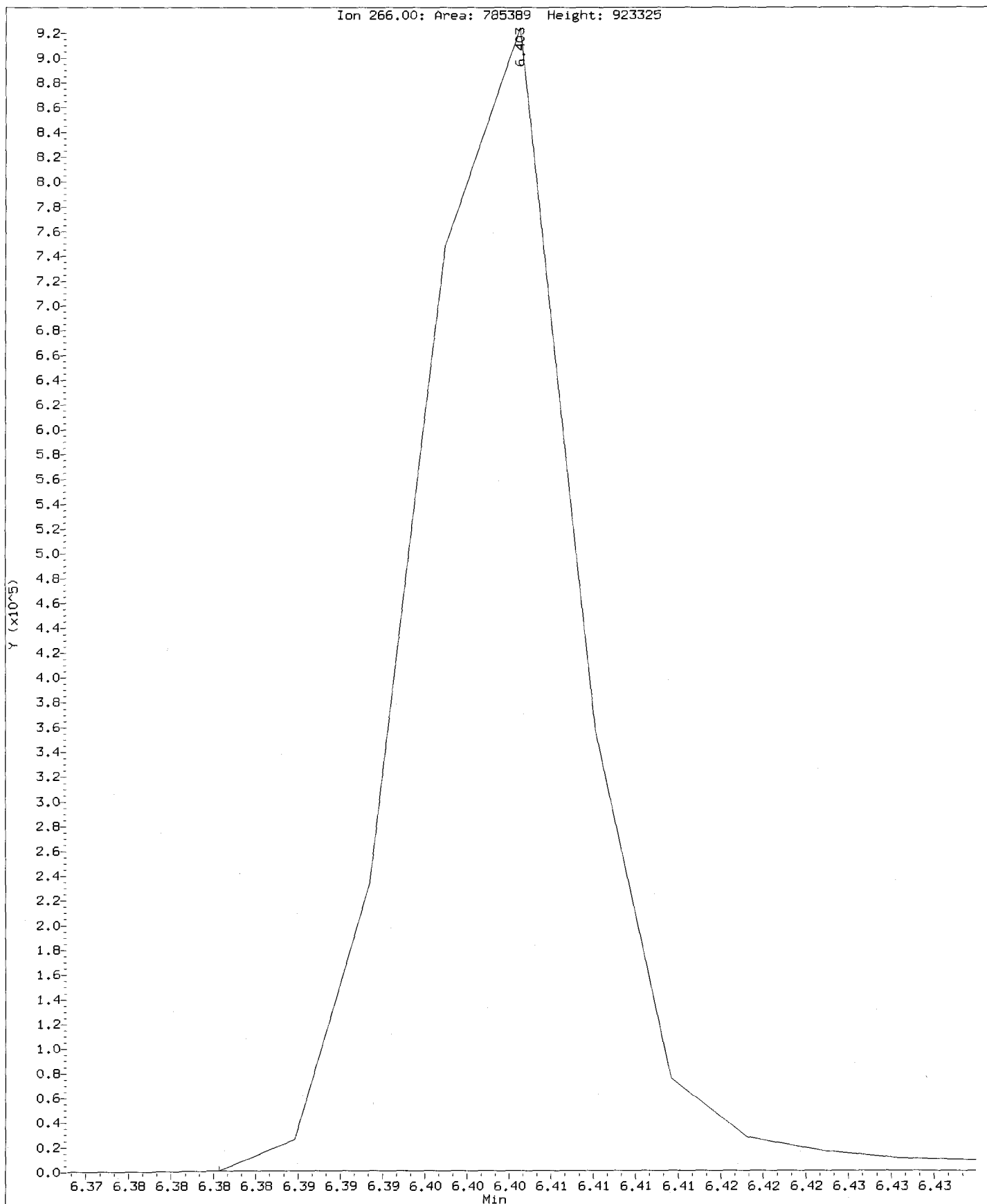
Column diameter: 0.25

Data File: df0526.d
 Spectrum: Avg. Scans 497-499 (6.75), Background Scan 492
 Location of Maximum: 198.00
 Number of points: 344

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|-------|--------|--------|
| 112.00 | 2941 | 200.00 | 3155 | 294.00 | 851 | 433.00 | 182 |
| 113.00 | 925 | 201.00 | 3528 | 295.00 | 1364 | 434.00 | 330 |
| 114.00 | 293 | 203.00 | 4862 | 296.00 | 49064 | 435.00 | 384 |
| 115.00 | 582 | 204.00 | 24424 | 297.00 | 6873 | 436.00 | 524 |
| 116.00 | 4751 | 205.00 | 40776 | 298.00 | 480 | 437.00 | 742 |
| 117.00 | 73120 | 206.00 | 166848 | 299.00 | 121 | 438.00 | 378 |
| 118.00 | 5224 | 207.00 | 21712 | 301.00 | 760 | 439.00 | 1052 |
| 119.00 | 711 | 208.00 | 5262 | 302.00 | 851 | 440.00 | 757 |
| 120.00 | 1191 | 209.00 | 1631 | 303.00 | 5451 | 441.00 | 84168 |
| 121.00 | 537 | 210.00 | 634 | 304.00 | 1399 | 442.00 | 533504 |
| 122.00 | 5952 | 211.00 | 6697 | 305.00 | 61 | 443.00 | 106320 |
| 123.00 | 9239 | 213.00 | 451 | 307.00 | 73 | 444.00 | 9542 |
| 124.00 | 3620 | 214.00 | 166 | 308.00 | 672 | 445.00 | 638 |
| 125.00 | 4068 | 215.00 | 1855 | 309.00 | 579 | | |
| 126.00 | 1464 | 216.00 | 3870 | 310.00 | 726 | | |
| 127.00 | 356480 | 217.00 | 45744 | 311.00 | 93 | | |
| 128.00 | 26776 | 218.00 | 5952 | 312.00 | 210 | | |

Data File: /chem1/nt10.i/20120526.b/ddt.b/df0526.d
Injection Date: 26-MAY-2012 10:44
Instrument: nt10.i
Client Sample ID: DFTPP

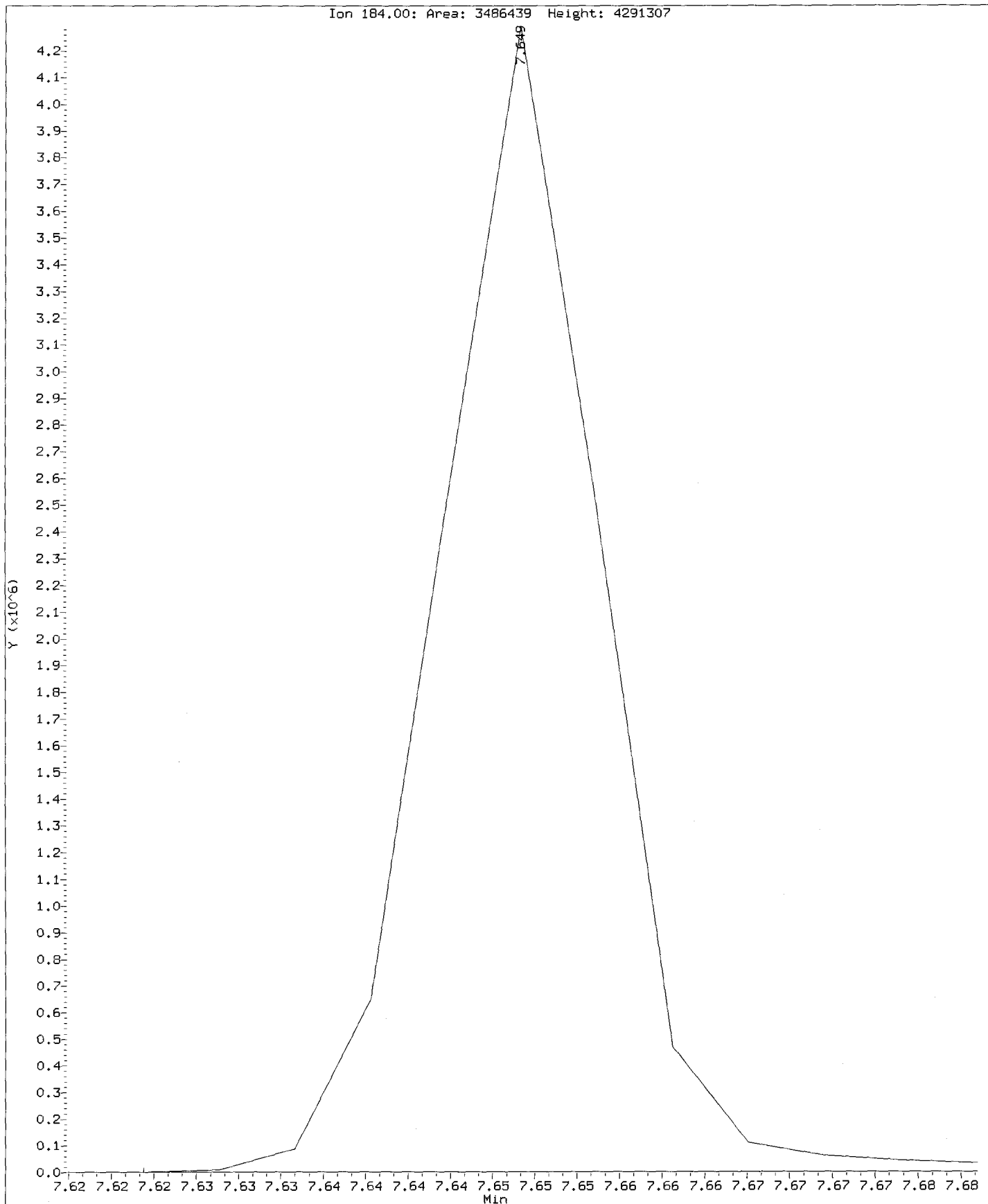
Compound: Pentachlorophenol
CAS Number: 87-86-5



UU52:00548

Data File: /chem1/nt10.i/20120526.b/ddt.b/df0526.d
Injection Date: 26-MAY-2012 10:44
Instrument: nt10.i
Client Sample ID: DFTPP

Compound: Benzidine
CAS Number:



0052:00649

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20120526.b/ddt.b/df0526.d ARI ID: DFTPP
Method: /chem1/nt10.i/20120526.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 26-MAY-2012 10:44 Instrument: nt10.i

| COMPOUND | RT | AREA |
|-------------------|-------|---------|
| Pentachlorophenol | 6.403 | 785389 |
| Benzidine | 7.649 | 3486439 |
| 4,4'-DDE | 7.831 | 8080 |
| 4,4'-DDD | 8.120 | 77952 |
| 4,4'-DDT | 8.371 | 1823281 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(8080 + 77952) * 100}{(8080 + 77952 + 1823281)}$$

DDT Percent Breakdown = 4.5 %

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 26-MAY-2012 10:59
 Lab File ID: ic0526a.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: ABN5 Quant Type: ISTD
 Method: /chem1/nt10.i/20120526.b/ABN.m

| COMPOUND | RRF / AMOUNT | | RF5 | CCAL | | MIN | | MAX | | CURVE TYPE |
|------------------------------|--------------|----------|----------|---------|-------|-------------|-------------|-------------|--|------------|
| | RRF | AMOUNT | | RRF5 | RRF | %D / %DRIFT | %D / %DRIFT | %D / %DRIFT | | |
| \$ 1 2-Fluorophenol | 1.39876 | | 1.41730 | 1.41730 | 0.010 | 1.32602 | 20.00000 | Averaged | | |
| \$ 2 Phenol-d5 | 1.74239 | | 1.77639 | 1.77639 | 0.010 | 1.95148 | 20.00000 | Averaged | | |
| 3 Phenol | 1.85722 | | 1.94466 | 1.94466 | 0.100 | 4.70830 | 20.00000 | Averaged | | |
| \$ 5 2-Chlorophenol-d4 | 1.52653 | | 1.52331 | 1.52331 | 0.010 | -0.21087 | 20.00000 | Averaged | | |
| 7 1,3-Dichlorobenzene | 1.64203 | | 1.65734 | 1.65734 | 0.010 | 0.93204 | 20.00000 | Averaged | | |
| 9 1,4-Dichlorobenzene | 1.60271 | | 1.59176 | 1.59176 | 0.010 | -0.68291 | 20.00000 | Averaged | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.00142 | | 1.01271 | 1.01271 | 0.010 | 1.12736 | 20.00000 | Averaged | | |
| 12 1,2-Dichlorobenzene | 1.56383 | | 1.56974 | 1.56974 | 0.010 | 0.37798 | 20.00000 | Averaged | | |
| 11 Benzyl alcohol | 0.78027 | | 0.80699 | 0.80699 | 0.010 | 3.42384 | 20.00000 | Averaged | | |
| 13 2-Methylphenol | 1.46378 | | 1.46574 | 1.46574 | 0.700 | 0.13391 | 20.00000 | Averaged | | |
| 17 Hexachloroethane | 0.62268 | | 0.62403 | 0.62403 | 0.300 | 0.21635 | 20.00000 | Averaged | | |
| 15 4-Methylphenol | 1.52714 | | 1.53207 | 1.53207 | 0.600 | 0.32232 | 20.00000 | Averaged | | |
| \$ 18 Nitrobenzene-d5 | 0.35840 | | 0.36634 | 0.36634 | 0.010 | 2.21539 | 20.00000 | Averaged | | |
| 22 2,4-Dimethylphenol | 0.35235 | | 0.36445 | 0.36445 | 0.200 | 3.43400 | 20.00000 | Averaged | | |
| 24 Benzoic acid | 19.85509 | 20.00000 | 20.00000 | 0.23596 | 0.010 | -0.72455 | 20.00000 | Quadratic | | |
| 26 1,2,4-Trichlorobenzene | 0.32265 | | 0.32535 | 0.32535 | 0.010 | 0.83663 | 20.00000 | Averaged | | |
| 28 Naphthalene | 1.00840 | | 1.02274 | 1.02274 | 0.100 | 1.42255 | 20.00000 | Averaged | | |
| 30 Hexachlorobutadiene | 0.17350 | | 0.18139 | 0.18139 | 0.010 | 4.55134 | 20.00000 | Averaged | | |
| 32 2-Methylnaphthalene | 0.70103 | | 0.72209 | 0.72209 | 0.300 | 3.00404 | 20.00000 | Averaged | | |
| \$ 36 2-Fluorobiphenyl | 1.38663 | | 1.35546 | 1.35546 | 0.010 | -2.24757 | 20.00000 | Averaged | | |
| 39 Dimethylphthalate | 1.22903 | | 1.22652 | 1.22652 | 0.010 | -0.20464 | 20.00000 | Averaged | | |
| 40 Acenaphthylene | 1.79648 | | 1.78241 | 1.78241 | 0.900 | -0.78317 | 20.00000 | Averaged | | |
| 44 Acenaphthene | 1.08358 | | 1.09053 | 1.09053 | 0.100 | 0.64127 | 20.00000 | Averaged | | |
| 46 Dibenzofuran | 1.58749 | | 1.57536 | 1.57536 | 0.800 | -0.76417 | 20.00000 | Averaged | | |
| 50 Diethylphthalate | 1.19817 | | 1.20929 | 1.20929 | 0.010 | 0.92836 | 20.00000 | Averaged | | |
| 49 Fluorene | 1.21637 | | 1.20161 | 1.20161 | 0.100 | -1.21368 | 20.00000 | Averaged | | |
| 54 N-Nitrosodiphenylamine | 0.53809 | | 0.53680 | 0.53680 | 0.010 | -0.24091 | 20.00000 | Averaged | | |
| \$ 55 2,4,6-Tribromophenol | 0.16510 | | 0.17168 | 0.17168 | 0.010 | 3.98761 | 20.00000 | Averaged | | |
| 57 Hexachlorobenzene | 0.24689 | | 0.24201 | 0.24201 | 0.100 | -1.97802 | 20.00000 | Averaged | | |
| 58 Pentachlorophenol | 9.96302 | 10.00000 | 10.00000 | 0.12954 | 0.010 | -0.36980 | 20.00000 | Quadratic | | |
| 60 Phenanthrene | 1.03144 | | 1.02336 | 1.02336 | 0.700 | -0.78411 | 20.00000 | Averaged | | |
| 61 Anthracene | 1.07748 | | 1.11319 | 1.11319 | 0.700 | 3.31332 | 20.00000 | Averaged | | |
| 63 Di-n-butylphthalate | 1.40311 | | 1.47098 | 1.47098 | 0.010 | 4.83701 | 20.00000 | Averaged | | |
| 64 Fluoranthene | 1.17111 | | 1.20211 | 1.20211 | 0.600 | 2.64710 | 20.00000 | Averaged | | |
| 65 Pyrene | 1.21707 | | 1.24483 | 1.24483 | 0.600 | 2.28075 | 20.00000 | Averaged | | |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 26-MAY-2012 10:59
 Lab File ID: ic0526a.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: ABN5 Quant Type: ISTD
 Method: /chem1/nt10.i/20120526.b/ABN.m

| COMPOUND | ___ | | CCAL | | MIN | | MAX | | CURVE TYPE |
|-------------------------------|--------------|---------|---------|-------|-------------|-------------|----------|--|------------|
| | RRF / AMOUNT | RF5 | RRF5 | RRF | %D / %DRIFT | %D / %DRIFT | | | |
| 66 Terphenyl-d14 | 0.76242 | 0.77623 | 0.77623 | 0.010 | 1.81123 | 20.00000 | Averaged | | |
| 67 Butylbenzylphthalate | 0.56457 | 0.58390 | 0.58390 | 0.010 | 3.42498 | 20.00000 | Averaged | | |
| 68 Benzo(a)anthracene | 1.12516 | 1.11070 | 1.11070 | 0.700 | -1.28548 | 20.00000 | Averaged | | |
| 71 Chrysene | 0.98981 | 1.00552 | 1.00552 | 0.700 | 1.58713 | 20.00000 | Averaged | | |
| 72 bis(2-Ethylhexyl)phthalate | 0.54931 | 0.54429 | 0.54429 | 0.010 | -0.91233 | 20.00000 | Averaged | | |
| 73 Di-n-octylphthalate | 0.97317 | 0.96678 | 0.96678 | 0.010 | -0.65721 | 20.00000 | Averaged | | |
| 76 Benzo(a)pyrene | 1.03427 | 1.04753 | 1.04753 | 0.700 | 1.28229 | 20.00000 | Averaged | | |
| 78 Indeno(1,2,3-cd)pyrene | 1.19637 | 1.24880 | 1.24880 | 0.500 | 4.38201 | 20.00000 | Averaged | | |
| 79 Dibenzo(a,h)anthracene | 0.94241 | 0.99213 | 0.99213 | 0.400 | 5.27540 | 20.00000 | Averaged | | |
| 80 Benzo(g,h,i)perylene | 1.02591 | 1.06812 | 1.06812 | 0.500 | 4.11482 | 20.00000 | Averaged | | |
| 105 1-methylnaphthalene | 0.71493 | 0.74060 | 0.74060 | 0.010 | 3.58979 | 20.00000 | Averaged | | |
| 187 Total Benzofluoranthenes | 1.10989 | 1.11851 | 1.11851 | 0.010 | 0.77624 | 20.00000 | Averaged | | |
| 98 Retene | 0.56674 | 0.58856 | 0.58856 | 0.010 | 3.85011 | 20.00000 | Averaged | | |

Analytical Resources, Inc.

VZ 5/30/12

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/ic0526a.d
 Lab Smp Id: ABN5
 Inj Date : 26-MAY-2012 10:59
 Operator : VTS/YZ
 Smp Info : ABN5
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 30-May-2012 12:12 yev
 Cal Date : 26-MAY-2012 14:42
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: cserv3

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526g.d
 Continuing Calibration Sample
 Compound Sublist: SHORTPSDDA.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | 6.537 | 6.537 | (0.738) | 335752 | 5.00000 | 5.066 |
| \$ 2 Phenol-d5 | 99 | 8.237 | 8.237 | (0.930) | 420818 | 5.00000 | 5.098 |
| 3 Phenol | 94 | 8.260 | 8.260 | (0.933) | 460680 | 5.00000 | 5.235 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.476 | 8.476 | (0.957) | 360864 | 5.00000 | 4.989 |
| 7 1,3-Dichlorobenzene | 146 | 8.786 | 8.786 | (0.992) | 392615 | 5.00000 | 5.047 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.855 | 8.855 | (1.000) | 189516 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.886 | 8.886 | (1.004) | 377080 | 5.00000 | 4.966 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 239905 | 5.00000 | 5.056 |
| 12 1,2-Dichlorobenzene | 146 | 9.267 | 9.267 | (1.046) | 371864 | 5.00000 | 5.019 |
| 11 Methyl alcohol | 108 | 9.166 | 9.166 | (1.035) | 191171 | 5.00000 | 5.171 |
| 13 2-Methylphenol | 108 | 9.430 | 9.430 | (1.065) | 347227 | 5.00000 | 5.007 |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 147829 | 5.00000 | 5.011 |
| 15 4-Methylphenol | 108 | 9.725 | 9.725 | (1.098) | 362939 | 5.00000 | 5.016 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.027 | 10.027 | (0.872) | 334709 | 5.00000 | 5.111 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 665979 | 10.0000 | 10.34 |
| 24 Benzoic acid | 105 | 11.087 | 11.087 | (0.964) | 862339 | 20.0000 | 19.86 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.419 | 11.419 | (0.993) | 297260 | 5.00000 | 5.042 |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.504 | (1.000) | 730932 | 4.00000 | |
| 28 Naphthalene | 128 | 11.542 | 11.542 | (1.003) | 934446 | 5.00000 | 5.071 |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.952 | (1.039) | 165733 | 5.00000 | 5.228 |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 659745 | 5.00000 | 5.150 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 712799 | 5.00000 | 4.888 |
| 39 Dimethylphthalate | 163 | 14.893 | 14.893 | (0.969) | 644991 | 5.00000 | 4.990 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 937321 | 5.00000 | 4.961 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 420698 | 4.00000 | |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 573481 | 5.00000 | 5.032 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 828440 | 5.00000 | 4.962 |
| 50 Diethylphthalate | 149 | 16.470 | 16.470 | (1.071) | 635932 | 5.00000 | 5.046 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 631894 | 5.00000 | 4.939 |
| 54 N-Nitrosodiphenylamine | 169 | 16.856 | 16.856 | (0.905) | 428732 | 5.00000 | 4.988 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 90284 | 5.00000 | 5.199 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.975 | (0.965) | 193291 | 5.00000 | 4.901 |
| 58 Pentachlorophenol | 266 | 18.378 | 18.378 | (0.986) | 206931 | 10.00000 | 9.963 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 638950 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.687 | 18.687 | (1.003) | 817342 | 5.00000 | 4.961 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 889087 | 5.00000 | 5.166 |
| 63 Di-n-butylphthalate | 149 | 20.010 | 20.010 | (1.074) | 1174853 | 5.00000 | 5.242 |
| 64 Fluoranthene | 202 | 21.101 | 21.101 | (1.132) | 960108 | 5.00000 | 5.132 |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 1003743 | 5.00000 | 5.114 |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.844 | (0.921) | 625901 | 5.00000 | 5.091 |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 470820 | 5.00000 | 5.171 |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 895593 | 5.00000 | 4.936 |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.710 | (1.000) | 645065 | 4.00000 | |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 810779 | 5.00000 | 5.079 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.818 | 23.818 | (0.961) | 691334 | 5.00000 | 4.954 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 1016118 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 1227950 | 5.00000 | 4.967 |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 | (0.996) | 851161 | 5.00000 | 5.064 |
| * 77 Perylene-d12 | 264 | 26.102 | 26.102 | (1.000) | 650033 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.342 | 28.342 | (1.086) | 1014701 | 5.00000 | 5.219 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.365 | 28.365 | (1.087) | 806147 | 5.00000 | 5.264 |
| 80 Benzo(g,h,i)perylene | 276 | 29.002 | 29.002 | (1.111) | 867892 | 5.00000 | 5.206 |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 | (1.154) | 676659 | 5.00000 | 5.179 |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 | (0.976) | 1817664 | 10.00000 | 10.08 |
| 98 Retene | 219 | 22.131 | 22.131 | (0.933) | 474577 | 5.00000 | 5.193 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ic0526a.d
 Lab Smp Id: ABN5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info:

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 189516 | 0.00 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 730932 | 0.00 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 420698 | 0.00 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 638950 | 0.00 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 645065 | 0.00 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1016118 | 0.00 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 650033 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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.

Date : 26-MAY-2012 10:59

Client ID:

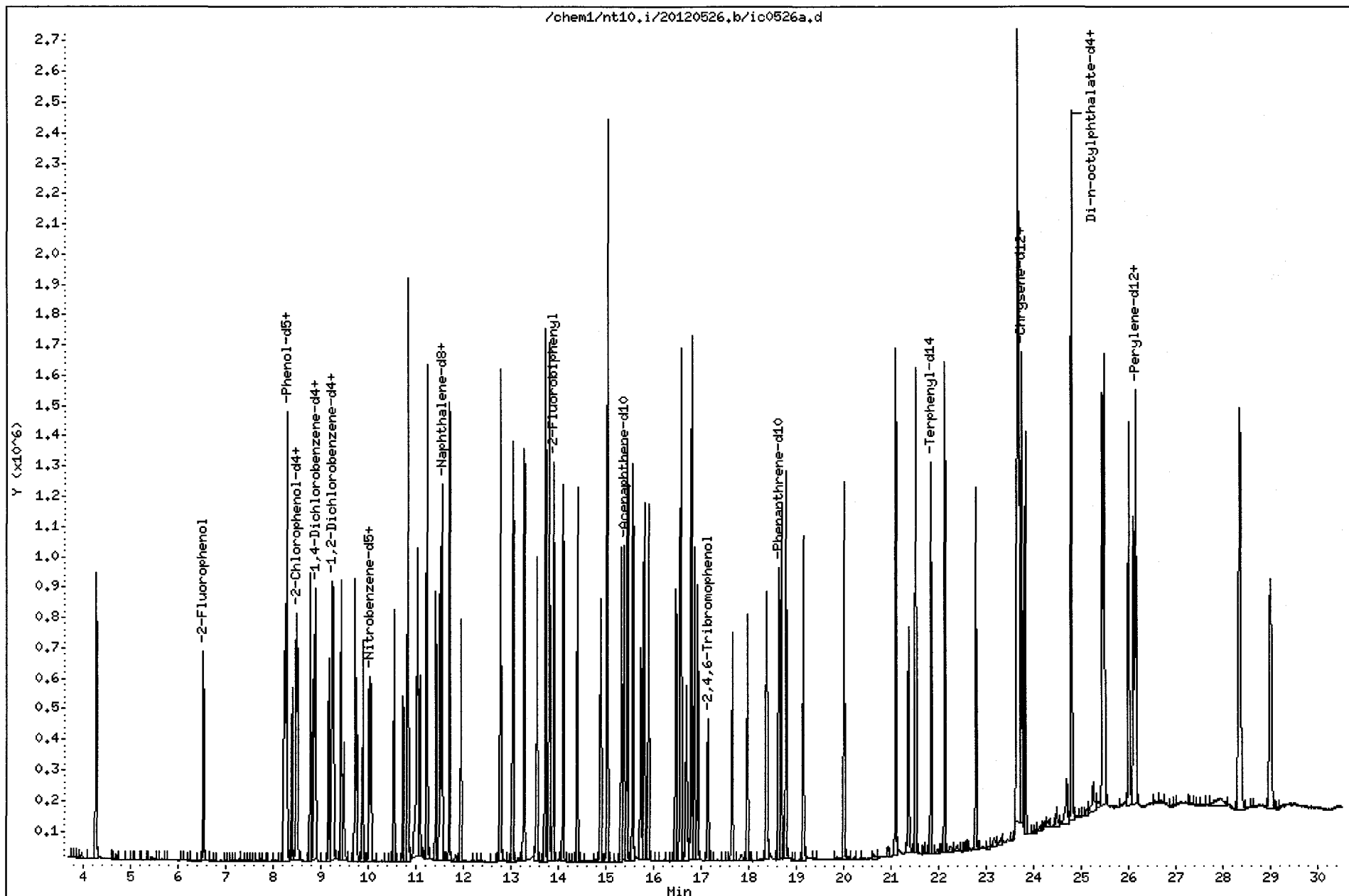
Sample Info: ABNS

Instrument: nt10.i

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25



0052:00656

CO-ELUTION SUMMARY FOR FILE - ic0526a.d

Lab ID: ABN5, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources Inc.: Volatile Organics Instrument Log
NT-10 Serial No.:GC=CN10837018, MS= US83131105

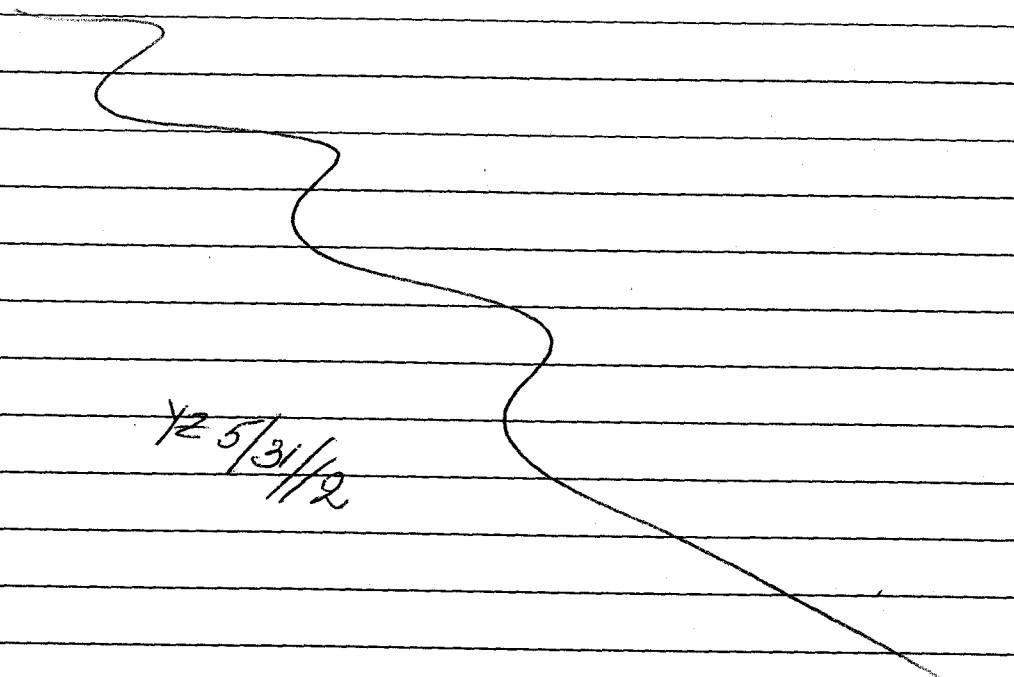
Date: 5/30/12 Analysis: ABN Analyst: YZ
 GC Program: ABN2 Column No: 227815 Column Type: 2B5ms1
 Instrument Tune (.U or .CT.): 11/2/104 EM Voltage: 1800
 Calibration File: DF0530 Curve Date: 5/26/12 Injection Vol.: 1ul

| IS/SS | Ical/Ccal | LCS/ICV |
|--------|---------------|---------|
| 1975-1 | 1949-2 1891-2 | |
| | 1950-1 1892-1 | |
| | | |
| | | |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/20120530.b

| Time | Filename | LabID | ClientId | DF |
|--------|----------|--------|--------------|--|
| 1 1212 | df0530.d | DPTPP | DPTPP | 1 NO ISTDs FOUND |
| 2 1227 | cc0530.d | CC0530 | | 1 8.86 191858 11.51 750130 15.39 423103 18.66 662850 23.73 713203 24.81 1121736 26.13 700277 |
| 3 1304 | uu52g6.d | UU52G | MS006-SS-120 | 6 8.87 186026 11.51 733531 15.39 426946 18.66 591988 23.73 709441 24.81 1089932 26.13 662093 |



YZ 5/31/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt10.i/20120530.b

Instrument: nt10.i Date: 30-MAY-2012 Method: ABN.m

INITIAL CAL: 26-MAY-2012

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

CONTINUING CAL: 30-MAY-2012

| Compound | %D |
|---------------------------------------|------------------|
| ----- | |
| Benzoic acid | -48.8 |
| Hexachlorocyclopentadiene | -36.6 |
| 2,4-Dinitrophenol | -70.8 |
| 4,6-Dinitro-2-methylphenol | 27.0 |
| ----- | |

Data File: /chem1/nt10.i/20120530.b/df0530.d

Page 1

Date : 30-MAY-2012 12:12

Client ID: DFTPP

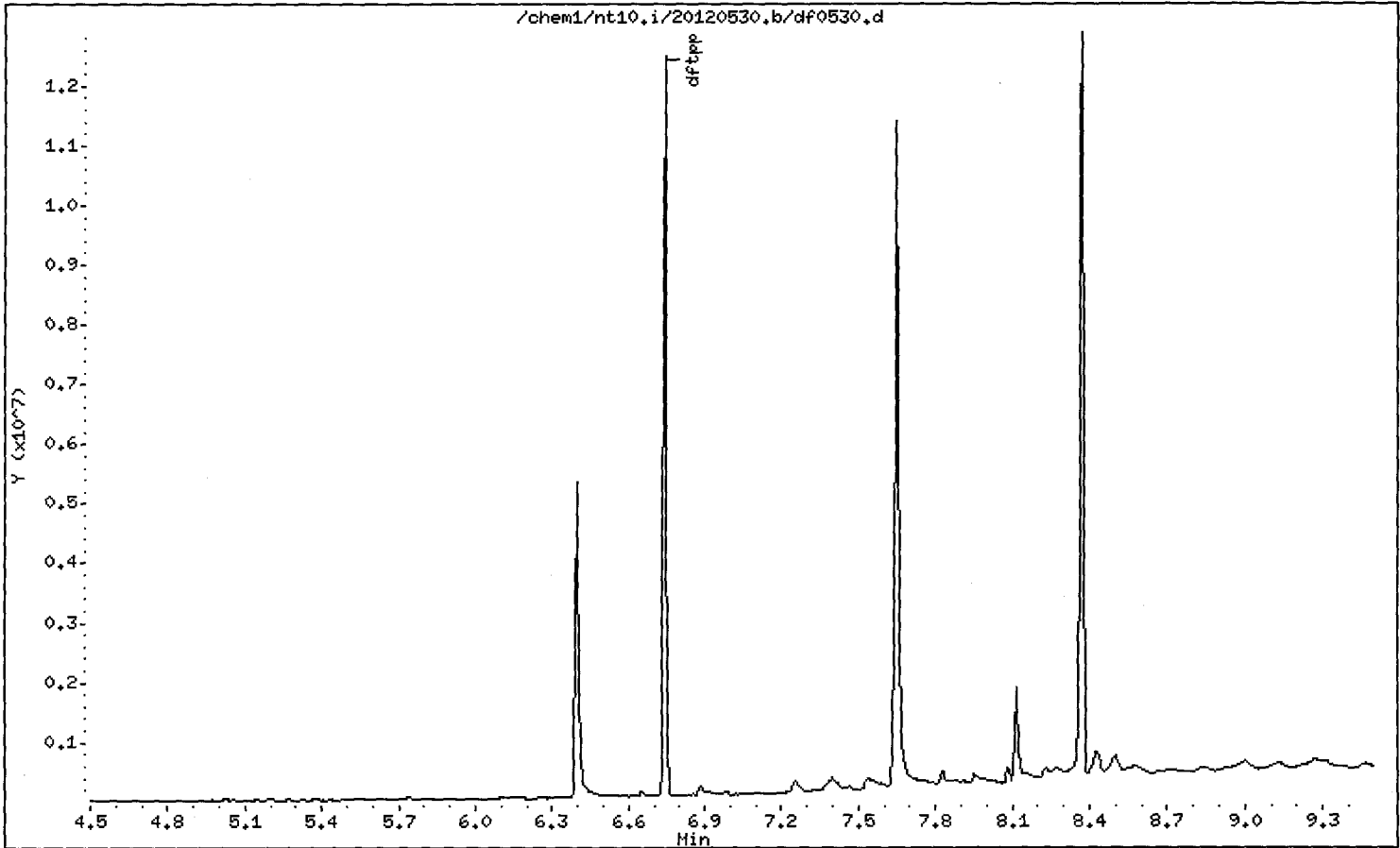
Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



UU52:00550

Date : 30-MAY-2012 12:12

Client ID: DFTPP

Instrument: nt10.i

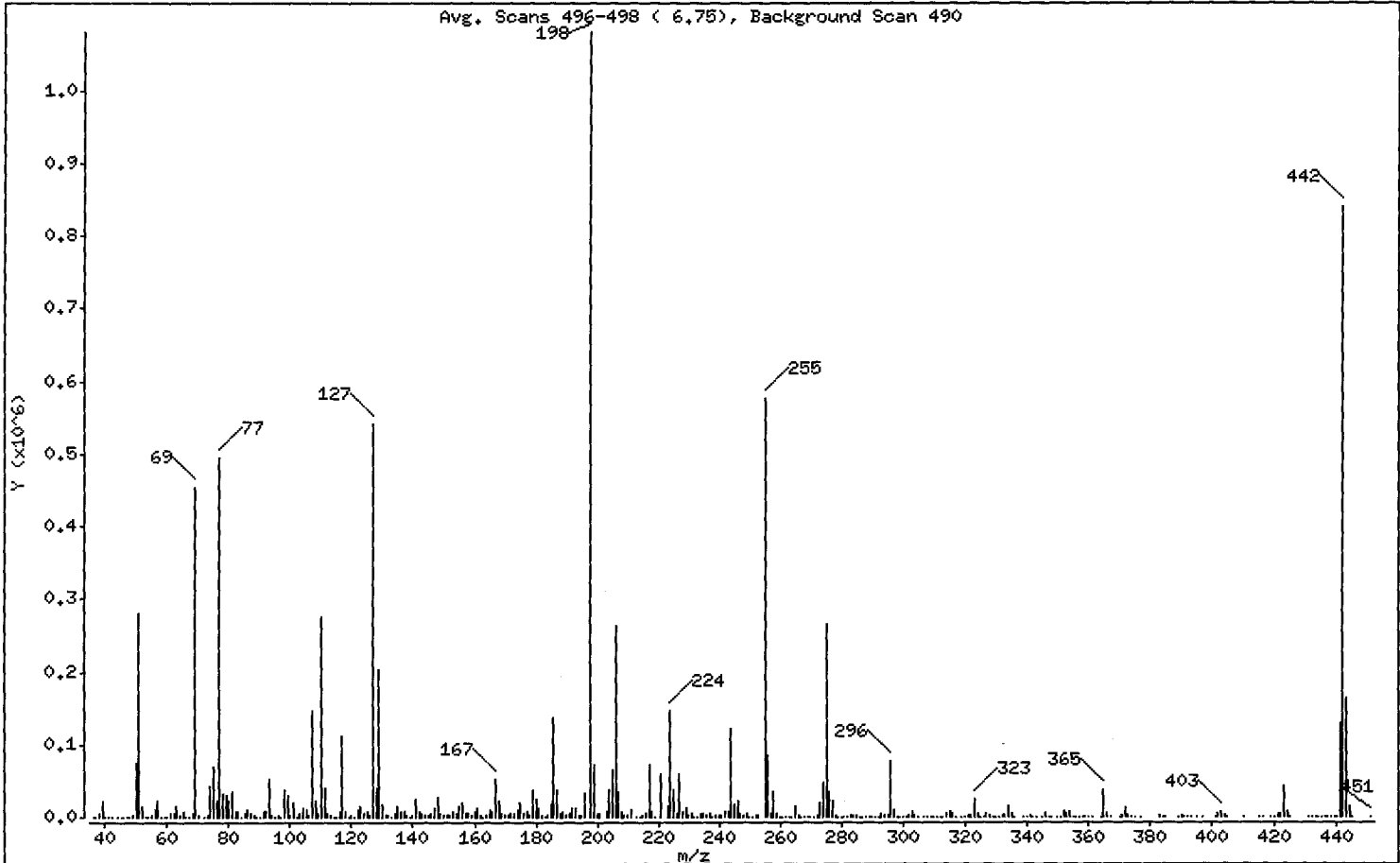
Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 25.95 |
| 68 | Less than 2.00% of mass 69 | 0.56 (1.33) |
| 69 | Mass 69 relative abundance | 42.05 |
| 70 | Less than 2.00% of mass 69 | 0.16 (0.37) |
| 127 | 10.00 - 80.00% of mass 198 | 50.08 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.63 |
| 275 | 10.00 - 60.00% of mass 198 | 24.62 |
| 365 | Greater than 1.00% of mass 198 | 3.34 |
| 441 | 0.01 - 24.00% of mass 442 | 11.95 (15.38) |
| 442 | 50.00 - 200.00% of mass 198 | 77.69 |
| 443 | 15.00 - 24.00% of mass 442 | 15.22 (19.59) |

Date : 30-MAY-2012 12:12

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0530.d
 Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490
 Location of Maximum: 198.00
 Number of points: 364

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36,00 | 201 | 130,00 | 16976 | 227,00 | 59320 | 322,00 | 1375 |
| 37,00 | 977 | 131,00 | 3284 | 228,00 | 8477 | 323,00 | 23688 |
| 38,00 | 3764 | 132,00 | 1922 | 229,00 | 12041 | 324,00 | 4431 |
| 39,00 | 21560 | 133,00 | 628 | 230,00 | 1933 | 325,00 | 512 |
| 40,00 | 953 | 134,00 | 5518 | 231,00 | 5723 | 326,00 | 586 |
| 41,00 | 337 | 135,00 | 15853 | 232,00 | 1126 | 327,00 | 4785 |
| 42,00 | 45 | 136,00 | 6515 | 233,00 | 915 | 328,00 | 2421 |
| 44,00 | 362 | 137,00 | 7334 | 234,00 | 4032 | 329,00 | 426 |
| 45,00 | 593 | 138,00 | 1698 | 235,00 | 4582 | 330,00 | 190 |
| 46,00 | 53 | 139,00 | 936 | 236,00 | 3178 | 331,00 | 244 |
| 47,00 | 44 | 140,00 | 2345 | 237,00 | 4618 | 332,00 | 1912 |
| 48,00 | 143 | 141,00 | 23960 | 238,00 | 853 | 333,00 | 2518 |
| 49,00 | 1902 | 142,00 | 7944 | 239,00 | 2127 | 334,00 | 15785 |
| 50,00 | 74928 | 143,00 | 5527 | 240,00 | 1673 | 335,00 | 3853 |
| 51,00 | 280576 | 144,00 | 1434 | 241,00 | 3665 | 336,00 | 417 |
| 52,00 | 14314 | 145,00 | 1404 | 242,00 | 7846 | 339,00 | 437 |
| 53,00 | 855 | 146,00 | 4377 | 243,00 | 8579 | 340,00 | 301 |
| 54,00 | 126 | 147,00 | 12436 | 244,00 | 120672 | 341,00 | 2747 |
| 55,00 | 1768 | 148,00 | 27840 | 245,00 | 16186 | 342,00 | 736 |
| 56,00 | 9492 | 149,00 | 5304 | 246,00 | 21808 | 343,00 | 240 |
| 57,00 | 21992 | 150,00 | 1406 | 247,00 | 4387 | 345,00 | 74 |
| 58,00 | 571 | 151,00 | 3247 | 248,00 | 1255 | 346,00 | 5357 |
| 59,00 | 265 | 152,00 | 2102 | 249,00 | 4168 | 347,00 | 1020 |
| 60,00 | 392 | 153,00 | 7520 | 250,00 | 920 | 348,00 | 110 |
| 61,00 | 4118 | 154,00 | 5777 | 251,00 | 1154 | 350,00 | 266 |
| 62,00 | 5066 | 155,00 | 14324 | 252,00 | 1277 | 351,00 | 480 |
| 63,00 | 15059 | 156,00 | 20544 | 253,00 | 2659 | 352,00 | 7435 |
| 64,00 | 2275 | 157,00 | 4279 | 255,00 | 577792 | 353,00 | 4879 |
| 65,00 | 7719 | 158,00 | 4440 | 256,00 | 84696 | 354,00 | 6774 |
| 66,00 | 444 | 159,00 | 3346 | 257,00 | 6104 | 355,00 | 1198 |
| 67,00 | 369 | 160,00 | 7718 | 258,00 | 34336 | 356,00 | 206 |
| 68,00 | 6095 | 161,00 | 11326 | 259,00 | 5340 | 357,00 | 123 |
| 69,00 | 454656 | 162,00 | 3603 | 260,00 | 1038 | 358,00 | 205 |
| 70,00 | 1704 | 163,00 | 921 | 261,00 | 1053 | 359,00 | 547 |
| 72,00 | 77 | 164,00 | 1580 | 262,00 | 186 | 360,00 | 101 |

Date : 30-MAY-2012 12:12

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0530.d

Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490

Location of Maximum: 198.00

Number of points: 364

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|---------|--------|--------|--------|-------|
| 73.00 | 3492 | 165.00 | 9481 | 263.00 | 491 | 361.00 | 216 |
| 74.00 | 42512 | 166.00 | 7501 | 264.00 | 1114 | 364.00 | 180 |
| 75.00 | 69664 | 167.00 | 51144 | 265.00 | 14050 | 365.00 | 36112 |
| 76.00 | 22816 | 168.00 | 21464 | 266.00 | 1448 | 366.00 | 5112 |
| 77.00 | 495680 | 169.00 | 4055 | 267.00 | 228 | 367.00 | 350 |
| 78.00 | 33024 | 170.00 | 1765 | 268.00 | 207 | 370.00 | 904 |
| 79.00 | 29600 | 171.00 | 2195 | 269.00 | 193 | 371.00 | 1980 |
| 80.00 | 23440 | 172.00 | 4469 | 270.00 | 765 | 372.00 | 12747 |
| 81.00 | 34008 | 173.00 | 5433 | 271.00 | 1240 | 373.00 | 3266 |
| 82.00 | 8232 | 174.00 | 10723 | 272.00 | 1914 | 374.00 | 391 |
| 83.00 | 8030 | 175.00 | 19968 | 273.00 | 19184 | 375.00 | 114 |
| 84.00 | 506 | 176.00 | 6189 | 274.00 | 47464 | 377.00 | 432 |
| 85.00 | 5018 | 177.00 | 8556 | 275.00 | 266176 | 383.00 | 3308 |
| 86.00 | 8869 | 178.00 | 3155 | 276.00 | 35936 | 384.00 | 937 |
| 87.00 | 4166 | 179.00 | 37096 | 277.00 | 21928 | 385.00 | 376 |
| 88.00 | 1382 | 180.00 | 24512 | 278.00 | 3590 | 389.00 | 241 |
| 89.00 | 1021 | 181.00 | 11761 | 279.00 | 780 | 390.00 | 1670 |
| 90.00 | 292 | 182.00 | 1906 | 280.00 | 65 | 391.00 | 1217 |
| 91.00 | 7351 | 183.00 | 1175 | 281.00 | 236 | 392.00 | 817 |
| 92.00 | 7890 | 184.00 | 2748 | 282.00 | 668 | 393.00 | 143 |
| 93.00 | 51920 | 185.00 | 18168 | 283.00 | 2785 | 395.00 | 139 |
| 94.00 | 3571 | 186.00 | 137856 | 284.00 | 1596 | 397.00 | 82 |
| 95.00 | 417 | 187.00 | 38280 | 285.00 | 3704 | 401.00 | 773 |
| 96.00 | 2139 | 188.00 | 3994 | 286.00 | 812 | 402.00 | 4708 |
| 97.00 | 466 | 189.00 | 8026 | 287.00 | 153 | 403.00 | 7149 |
| 98.00 | 38416 | 190.00 | 1758 | 288.00 | 278 | 404.00 | 2514 |
| 99.00 | 30376 | 191.00 | 4007 | 289.00 | 1005 | 405.00 | 496 |
| 100.00 | 2545 | 192.00 | 12193 | 290.00 | 924 | 410.00 | 285 |
| 101.00 | 19728 | 193.00 | 12825 | 291.00 | 633 | 415.00 | 403 |
| 102.00 | 980 | 194.00 | 2641 | 292.00 | 1138 | 416.00 | 62 |
| 103.00 | 5920 | 195.00 | 2031 | 293.00 | 5029 | 419.00 | 65 |
| 104.00 | 11523 | 196.00 | 33240 | 294.00 | 1280 | 420.00 | 149 |
| 105.00 | 10957 | 198.00 | 1081344 | 295.00 | 2190 | 421.00 | 5994 |
| 106.00 | 3553 | 199.00 | 71664 | 296.00 | 77456 | 422.00 | 5784 |
| 107.00 | 146240 | 200.00 | 5725 | 297.00 | 10668 | 423.00 | 42824 |

Date : 30-MAY-2012 12:12

Client ID: DFTPP

Instrument: nt10.i

Sample Info: DFTPP

Operator: YZ

Column phase: ZB-5msi

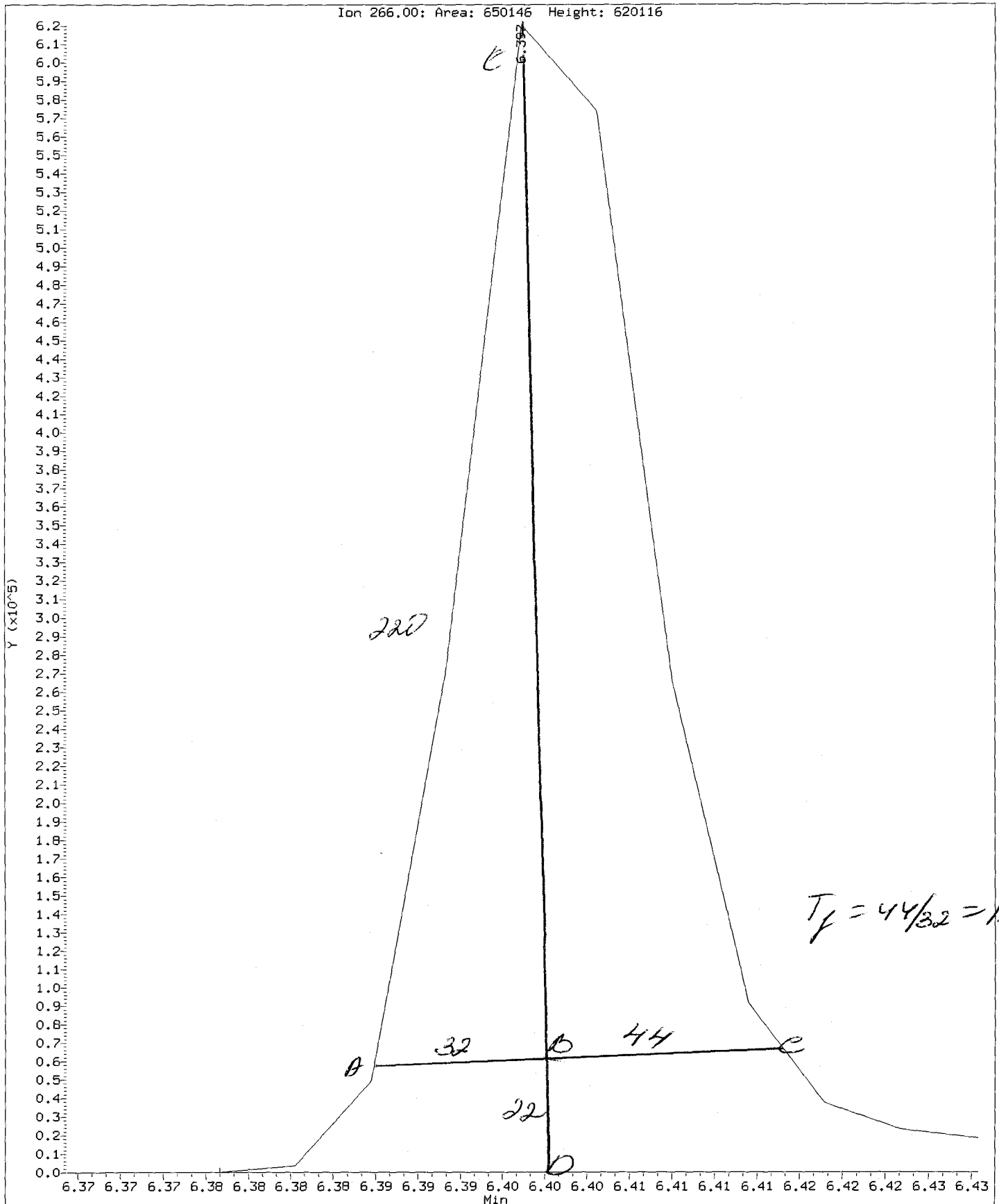
Column diameter: 0.25

Data File: df0530.d
 Spectrum: Avg. Scans 496-498 (6.75), Background Scan 490
 Location of Maximum: 198.00
 Number of points: 364

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|------|--------|--------|
| 108.00 | 23112 | 201.00 | 5452 | 298.00 | 794 | 424.00 | 8479 |
| 109.00 | 3913 | 203.00 | 7293 | 299.00 | 342 | 425.00 | 849 |
| 110.00 | 275520 | 204.00 | 37040 | 300.00 | 75 | 431.00 | 59 |
| 111.00 | 40224 | 205.00 | 64480 | 301.00 | 1173 | 432.00 | 133 |
| 112.00 | 4767 | 206.00 | 262720 | 302.00 | 1489 | 433.00 | 113 |
| 113.00 | 1701 | 207.00 | 34088 | 303.00 | 8603 | 434.00 | 398 |
| 114.00 | 464 | 208.00 | 7838 | 304.00 | 2355 | 435.00 | 298 |
| 115.00 | 642 | 209.00 | 2586 | 305.00 | 275 | 436.00 | 486 |
| 116.00 | 7646 | 210.00 | 1961 | 307.00 | 115 | 437.00 | 598 |
| 117.00 | 111128 | 211.00 | 10539 | 308.00 | 1145 | 438.00 | 829 |
| 118.00 | 7964 | 213.00 | 525 | 309.00 | 810 | 439.00 | 344 |
| 119.00 | 1061 | 214.00 | 361 | 310.00 | 974 | 440.00 | 1193 |
| 120.00 | 1957 | 215.00 | 2806 | 311.00 | 314 | 441.00 | 129248 |
| 121.00 | 657 | 216.00 | 5582 | 312.00 | 338 | 442.00 | 840128 |
| 122.00 | 8973 | 217.00 | 71640 | 313.00 | 775 | 443.00 | 164544 |
| 123.00 | 14031 | 218.00 | 8575 | 314.00 | 3827 | 444.00 | 15508 |
| 124.00 | 5994 | 219.00 | 1105 | 315.00 | 8281 | 445.00 | 816 |
| 125.00 | 6435 | 221.00 | 59032 | 316.00 | 4645 | 451.00 | 51 |
| 126.00 | 2565 | 223.00 | 15531 | 317.00 | 883 | | |
| 127.00 | 541504 | 224.00 | 146112 | 319.00 | 125 | | |
| 128.00 | 40160 | 225.00 | 36104 | 320.00 | 363 | | |
| 129.00 | 204544 | 226.00 | 3979 | 321.00 | 2468 | | |

Data File: /chem1/nt10.i/20120530.b/ddt.b/df0530.d
Injection Date: 30-MAY-2012 12:12
Instrument: nt10.i
Client Sample ID: DFTPP

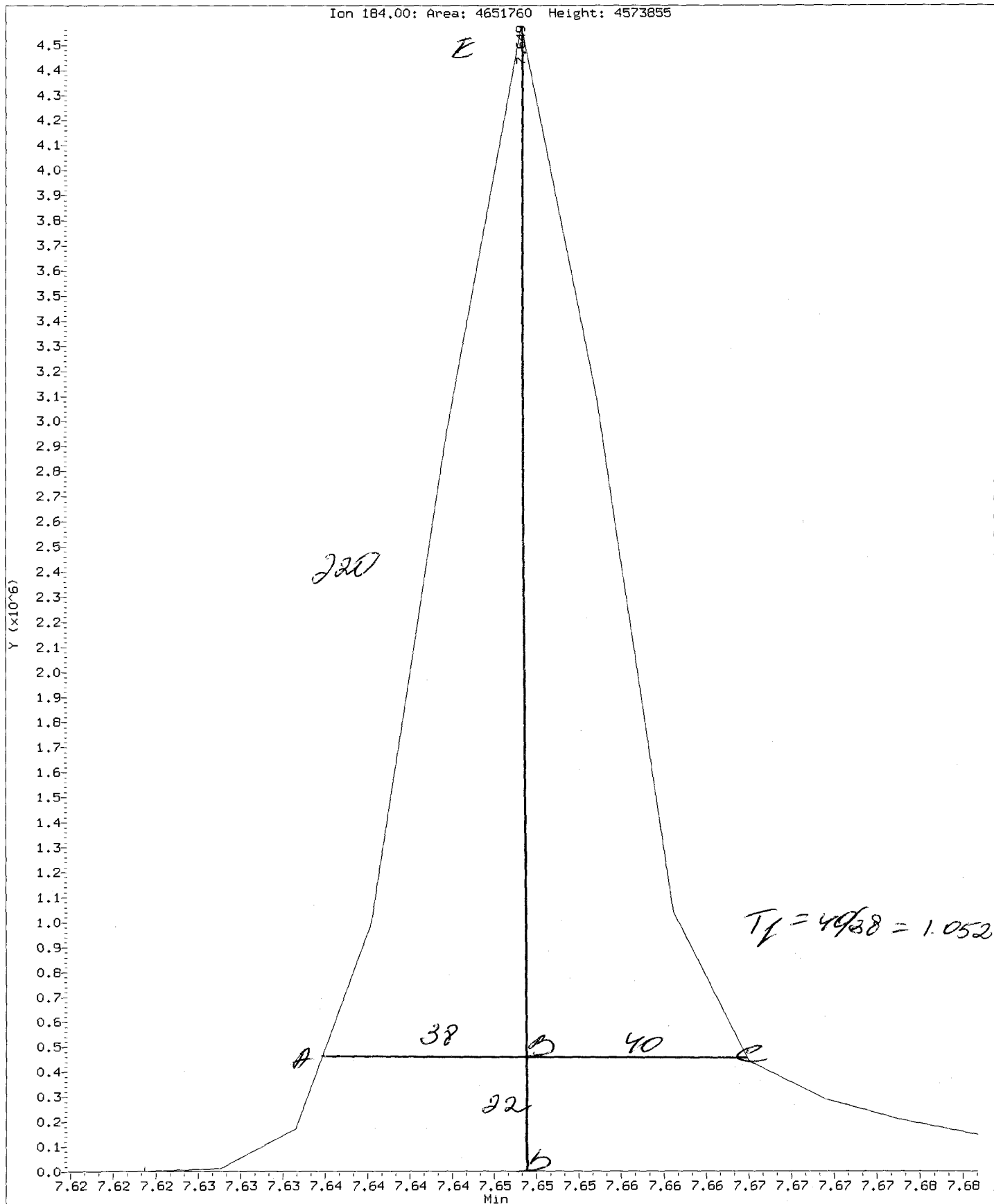
Compound: Pentachlorophenol
CAS Number: 87-86-5



UU52 : 00665

Data File: /chem1/nt10.i/20120530.b/ddt.b/df0530.d
Injection Date: 30-MAY-2012 12:12
Instrument: nt10.i
Client Sample ID: DFTPP

Compound: Benzidine
CAS Number:



UU52: 00666

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt10.i/20120530.b/ddt.b/df0530.d ARI ID: DFTPP
Method: /chem1/nt10.i/20120530.b/ddt.b/sw846ddt.m Misc: 11-
Analysis Date: 30-MAY-2012 12:12 Instrument: nt10.i

| COMPOUND | RT | AREA |
|-------------------|-------|---------|
| Pentachlorophenol | 6.397 | 650146 |
| Benzidine | 7.649 | 4651760 |
| 4,4'-DDE | 7.831 | 21114 |
| 4,4'-DDD | 8.114 | 308435 |
| 4,4'-DDT | 8.371 | 2080466 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(21114 + 308435) * 100}{(21114 + 308435 + 2080466)}$$

DDT Percent Breakdown = 13.7 %

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 30-MAY-2012 12:27
 Lab File ID: cc0530.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: CC0530 Quant Type: ISTD
 Method: /chem1/nt10.i/20120530.b/ABN.m

| COMPOUND | RRF / AMOUNT | RF5 | CCAL RRF5 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|--------------------------------|--------------|----------|--------------|------------|-------------|--------------------|--------------|
| \$ 1 2-Fluorophenol | 1.39876 | 1.31614 | 1.31614 | 0.010 | -5.90664 | 20.00000 | Averaged |
| \$ 2 Phenol-d5 | 1.74239 | 1.59621 | 1.59621 | 0.010 | -8.38978 | 20.00000 | Averaged |
| 3 Phenol | 1.85722 | 1.91241 | 1.91241 | 0.100 | 2.97190 | 20.00000 | Averaged |
| \$ 5 2-Chlorophenol-d4 | 1.52653 | 1.44424 | 1.44424 | 0.010 | -5.39025 | 20.00000 | Averaged |
| 4 Bis(2-Chloroethyl)ether | 1.38283 | 1.31178 | 1.31178 | 0.700 | -5.13762 | 20.00000 | Averaged |
| 6 2-Chlorophenol | 1.64006 | 1.55544 | 1.55544 | 0.800 | -5.15950 | 20.00000 | Averaged |
| 7 1,3-Dichlorobenzene | 1.64203 | 1.62870 | 1.62870 | 0.010 | -0.81223 | 20.00000 | Averaged |
| 9 1,4-Dichlorobenzene | 1.60271 | 1.58390 | 1.58390 | 0.010 | -1.17356 | 20.00000 | Averaged |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.00142 | 1.02445 | 1.02445 | 0.010 | 2.30003 | 20.00000 | Averaged |
| 12 1,2-Dichlorobenzene | 1.56383 | 1.55742 | 1.55742 | 0.010 | -0.40978 | 20.00000 | Averaged |
| 11 Benzyl alcohol | 0.78027 | 0.79875 | 0.79875 | 0.010 | 2.36870 | 20.00000 | Averaged |
| 14 2,2'-oxybis(1-Chloropropane | 0.50908 | 0.50578 | 0.50578 | 0.010 | -0.64907 | 20.00000 | Averaged |
| 13 2-Methylphenol | 1.46378 | 1.37387 | 1.37387 | 0.700 | -6.14243 | 20.00000 | Averaged |
| 17 Hexachloroethane | 0.62268 | 0.63844 | 0.63844 | 0.300 | 2.53142 | 20.00000 | Averaged |
| 16 N-Nitroso-di-n-propylamine | 0.86256 | 0.80858 | 0.80858 | 0.500 | -6.25800 | 20.00000 | Averaged |
| 15 4-Methylphenol | 1.52714 | 1.37577 | 1.37577 | 0.600 | -9.91243 | 20.00000 | Averaged |
| \$ 18 Nitrobenzene-d5 | 0.35840 | 0.34113 | 0.34113 | 0.010 | -4.81654 | 20.00000 | Averaged |
| 19 Nitrobenzene | 0.35273 | 0.32576 | 0.32576 | 0.200 | -7.64696 | 20.00000 | Averaged |
| 20 Isophorone | 0.66495 | 0.71492 | 0.71492 | 0.300 | 7.51351 | 20.00000 | Averaged |
| 21 2-Nitrophenol | 0.22242 | 0.22061 | 0.22061 | 0.100 | -0.81440 | 20.00000 | Averaged |
| 22 2,4-Dimethylphenol | 0.35235 | 0.34008 | 0.34008 | 0.200 | -3.48450 | 20.00000 | Averaged |
| 23 Bis(2-Chloroethoxy)methane | 0.39601 | 0.37841 | 0.37841 | 0.050 | -4.44543 | 20.00000 | Averaged |
| 24 Benzoic acid | 10.23171 | 20.00000 | 0.11958 | 0.010 | -48.84143 | 20.00000 | Quadratic <- |
| 25 2,4-Dichlorophenol | 0.33892 | 0.32850 | 0.32850 | 0.100 | -3.07528 | 20.00000 | Averaged |
| 26 1,2,4-Trichlorobenzene | 0.32265 | 0.31778 | 0.31778 | 0.010 | -1.50840 | 20.00000 | Averaged |
| 28 Naphthalene | 1.00840 | 1.00895 | 1.00895 | 0.100 | 0.05430 | 20.00000 | Averaged |
| 29 4-Chloroaniline | 0.44927 | 0.43481 | 0.43481 | 0.010 | -3.21932 | 20.00000 | Averaged |
| 30 Hexachlorobutadiene | 0.17350 | 0.17922 | 0.17922 | 0.010 | 3.29859 | 20.00000 | Averaged |
| 31 4-Chloro-3-methylphenol | 0.30410 | 0.31245 | 0.31245 | 0.200 | 2.74390 | 20.00000 | Averaged |
| 32 2-Methylnaphthalene | 0.70103 | 0.71430 | 0.71430 | 0.300 | 1.89268 | 20.00000 | Averaged |
| 33 Hexachlorocyclopentadiene | 6.33640 | 10.00000 | 0.18396 | 0.001 | -36.63596 | 20.00000 | Quadratic <- |
| 34 2,4,6-Trichlorophenol | 0.39418 | 0.41460 | 0.41460 | 0.200 | 5.17908 | 20.00000 | Averaged |
| 35 2,4,5-Trichlorophenol | 0.42197 | 0.45922 | 0.45922 | 0.200 | 8.82848 | 20.00000 | Averaged |
| \$ 36 2-Fluorobiphenyl | 1.38663 | 1.39990 | 1.39990 | 0.010 | 0.95703 | 20.00000 | Averaged |
| 37 2-Chloronaphthalene | 1.18536 | 1.20990 | 1.20990 | 0.700 | 2.06993 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 30-MAY-2012 12:27
 Lab File ID: cc0530.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: CC0530 Quant Type: ISTD
 Method: /chem1/nt10.i/20120530.b/ABN.m

| COMPOUND | RRF / AMOUNT | RF5 | CCAL RRF5 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|-------------------------------|--------------|----------|--------------|------------|-------------|--------------------|--------------|
| 38 2-Nitroaniline | 0.28350 | 0.28300 | 0.28300 | 0.010 | -0.17677 | 20.00000 | Averaged |
| 39 Dimethylphthalate | 1.22903 | 1.24685 | 1.24685 | 0.010 | 1.44992 | 20.00000 | Averaged |
| 40 Acenaphthylene | 1.79648 | 1.95252 | 1.95252 | 0.900 | 8.68569 | 20.00000 | Averaged |
| 41 2,6-Dinitrotoluene | 0.29943 | 0.31167 | 0.31167 | 0.100 | 4.08704 | 20.00000 | Averaged |
| 43 3-Nitroaniline | 0.33807 | 0.32934 | 0.32934 | 0.010 | -2.58254 | 20.00000 | Averaged |
| 44 Acenaphthene | 1.08358 | 1.10560 | 1.10560 | 0.100 | 2.03174 | 20.00000 | Averaged |
| 45 2,4-Dinitrophenol | 5.84174 | 20.00000 | 0.05693 | 0.030 | -70.79128 | 20.00000 | Quadratic <- |
| 46 Dibenzofuran | 1.58749 | 1.62405 | 1.62405 | 0.800 | 2.30268 | 20.00000 | Averaged |
| 47 4-Nitrophenol | 0.13011 | 0.14268 | 0.14268 | 0.010 | 9.66153 | 20.00000 | Averaged |
| 48 2,4-Dinitrotoluene | 0.38632 | 0.41561 | 0.41561 | 0.200 | 7.58369 | 20.00000 | Averaged |
| 50 Diethylphthalate | 1.19817 | 1.24075 | 1.24075 | 0.010 | 3.55404 | 20.00000 | Averaged |
| 49 Fluorene | 1.21637 | 1.36102 | 1.36102 | 0.100 | 11.89200 | 20.00000 | Averaged |
| 51 4-Chlorophenyl-phenylether | 0.57758 | 0.69277 | 0.69277 | 0.100 | 19.94445 | 20.00000 | Averaged |
| 52 4-Nitroaniline | 0.34544 | 0.33890 | 0.33890 | 0.010 | -1.89169 | 20.00000 | Averaged |
| 53 4,6-Dinitro-2-methylphenol | 0.15872 | 0.11578 | 0.11578 | 0.001 | -27.04880 | 20.00000 | Averaged <- |
| 54 N-Nitrosodiphenylamine | 0.53809 | 0.52907 | 0.52907 | 0.010 | -1.67589 | 20.00000 | Averaged |
| \$ 55 2,4,6-Tribromophenol | 0.16510 | 0.17606 | 0.17606 | 0.010 | 6.63640 | 20.00000 | Averaged |
| 56 4-Bromophenyl-phenylether | 0.21413 | 0.21509 | 0.21509 | 0.100 | 0.44709 | 20.00000 | Averaged |
| 57 Hexachlorobenzene | 0.24689 | 0.24040 | 0.24040 | 0.100 | -2.63016 | 20.00000 | Averaged |
| 58 Pentachlorophenol | 9.75376 | 10.00000 | 0.12675 | 0.010 | -2.46238 | 20.00000 | Quadratic |
| 60 Phenanthrene | 1.03144 | 1.02793 | 1.02793 | 0.700 | -0.34060 | 20.00000 | Averaged |
| 61 Anthracene | 1.07748 | 1.13468 | 1.13468 | 0.700 | 5.30821 | 20.00000 | Averaged |
| 62 Carbazole | 0.99697 | 1.08341 | 1.08341 | 0.010 | 8.67040 | 20.00000 | Averaged |
| 63 Di-n-butylphthalate | 1.40311 | 1.49220 | 1.49220 | 0.010 | 6.34956 | 20.00000 | Averaged |
| 64 Fluoranthene | 1.17111 | 1.25507 | 1.25507 | 0.600 | 7.16987 | 20.00000 | Averaged |
| 65 Pyrene | 1.21707 | 1.22037 | 1.22037 | 0.600 | 0.27120 | 20.00000 | Averaged |
| \$ 66 Terphenyl-d14 | 0.76242 | 0.74551 | 0.74551 | 0.010 | -2.21783 | 20.00000 | Averaged |
| 67 Butylbenzylphthalate | 0.56457 | 0.58243 | 0.58243 | 0.010 | 3.16360 | 20.00000 | Averaged |
| 68 Benzo(a)anthracene | 1.12516 | 1.09265 | 1.09265 | 0.700 | -2.88934 | 20.00000 | Averaged |
| 70 3,3'-Dichlorobenzidine | 0.61607 | 0.66378 | 0.66378 | 0.010 | 7.74417 | 20.00000 | Averaged |
| 71 Chrysene | 0.98981 | 0.98250 | 0.98250 | 0.700 | -0.73834 | 20.00000 | Averaged |
| 72 bis(2-Ethylhexyl)phthalate | 0.54931 | 0.53298 | 0.53298 | 0.010 | -2.97123 | 20.00000 | Averaged |
| 73 Di-n-octylphthalate | 0.97317 | 0.95800 | 0.95800 | 0.010 | -1.55885 | 20.00000 | Averaged |
| 74 Benzo(b)fluoranthene | 1.12365 | 1.17964 | 1.17964 | 0.700 | 4.98292 | 20.00000 | Averaged |
| 75 Benzo(k)fluoranthene | 1.23726 | 1.20722 | 1.20722 | 0.700 | -2.42746 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 30-MAY-2012 12:27
 Lab File ID: cc0530.d Init. Cal. Date(s): 26-MAY-2012 26-MAY-2012
 Analysis Type: Init. Cal. Times: 10:59 14:42
 Lab Sample ID: CC0530 Quant Type: ISTD
 Method: /chem1/nt10.i/20120530.b/ABN.m

| COMPOUND | CCAL | | MIN | | MAX | | CURVE TYPE |
|---------------------------------|--------------|---------|---------|-------|-------------|-------------|------------|
| | RRF / AMOUNT | RF5 | RRF5 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 76 Benzo(a)pyrene | 1.03427 | 1.04143 | 1.04143 | 0.700 | 0.69245 | 20.00000 | Averaged |
| 78 Indeno(1,2,3-cd)pyrene | 1.19637 | 1.21690 | 1.21690 | 0.500 | 1.71540 | 20.00000 | Averaged |
| 79 Dibenzo(a,h)anthracene | 0.94241 | 0.98502 | 0.98502 | 0.400 | 4.52058 | 20.00000 | Averaged |
| 80 Benzo(g,h,i)perylene | 1.02591 | 1.02921 | 1.02921 | 0.500 | 0.32168 | 20.00000 | Averaged |
| 90 N-Nitrosodimethylamine | 0.83166 | 0.81490 | 0.81490 | 0.010 | -2.01522 | 20.00000 | Averaged |
| 91 Aniline | 3.95624 | 3.51758 | 3.51758 | 0.010 | -11.08795 | 20.00000 | Averaged |
| 93 Benzidine | 0.45686 | 0.45161 | 0.45161 | 0.010 | -1.14756 | 20.00000 | Averaged |
| 103 Pyridine | 0.71808 | 0.67369 | 0.67369 | 0.010 | -6.18266 | 20.00000 | Averaged |
| 105 1-methylnaphthalene | 0.71493 | 0.74652 | 0.74652 | 0.010 | 4.41747 | 20.00000 | Averaged |
| 111 Azobenzene (1,2-DP-Hydrazin | 1.21402 | 1.21740 | 1.21740 | 0.010 | 0.27776 | 20.00000 | Averaged |
| 187 Total Benzofluoranthenes | 1.10989 | 1.12476 | 1.12476 | 0.010 | 1.33934 | 20.00000 | Averaged |
| 99 Perylene | 1.03973 | 1.04286 | 1.04286 | 0.010 | 0.30049 | 20.00000 | Averaged |
| 98 Retene | 0.56674 | 0.56307 | 0.56307 | 0.010 | -0.64850 | 20.00000 | Averaged |

Analytical Resources, Inc.

Semivolatible Report SW846 Method 8270D

Y2 6/4/12

Data file : /chem1/nt10.i/20120530.b/cc0530.d
 Lab Smp Id: CC0530
 Inj Date : 30-MAY-2012 12:27
 Operator : VTS/YZ
 Smp Info : CC0530
 Misc Info :
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120530.b/ABN.m
 Meth Date : 04-Jun-2012 11:58 yev
 Cal Date : 26-MAY-2012 14:42
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: ic0526g.d
 Continuing Calibration Sample
 Compound Sublist: PSDDAICAL.sub

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|---------------------------------|-----------|--------|--------|---------|----------|-----------------|----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | 6.560 | 6.560 | (0.740) | 315639 | 5.00000 | 4.705 |
| \$ 2 Phenol-d5 | 99 | 8.260 | 8.260 | (0.932) | 382806 | 5.00000 | 4.581 |
| 3 Phenol | 94 | 8.283 | 8.283 | (0.935) | 458639 | 5.00000 | 5.149 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.499 | (0.959) | 346362 | 5.00000 | 4.730 |
| 4 Bis(2-Chloroethyl)ether | 93 | 8.407 | 8.407 | (0.948) | 314595 | 5.00000 | 4.743 |
| 6 2-Chlorophenol | 128 | 8.522 | 8.522 | (0.962) | 373029 | 5.00000 | 4.742 |
| 7 1,3-Dichlorobenzene | 146 | 8.793 | 8.793 | (0.992) | 390598 | 5.00000 | 4.959 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.863 | (1.000) | 191858 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | 8.902 | 8.902 | (1.004) | 379854 | 5.00000 | 4.941 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.243 | 9.243 | (1.043) | 245686 | 5.00000 | 5.115 |
| 12 1,2-Dichlorobenzene | 146 | 9.274 | 9.274 | (1.046) | 373505 | 5.00000 | 4.980 |
| 11 Benzyl alcohol | 108 | 9.181 | 9.181 | (1.036) | 191559 | 5.00000 | 5.118 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.500 | 9.500 | (1.072) | 121297 | 5.00000 | 4.968 |
| 13 2-Methylphenol | 108 | 9.453 | 9.453 | (1.067) | 329485 | 5.00000 | 4.693 |
| 17 Hexachloroethane | 117 | 9.895 | 9.895 | (1.116) | 153113 | 5.00000 | 5.127 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.771 | 9.771 | (1.102) | 193916 | 5.00000 | 4.687 |
| 15 4-Methylphenol | 108 | 9.748 | 9.748 | (1.100) | 329940 | 5.00000 | 4.504 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.035 | 10.035 | (0.872) | 319869 | 5.00000 | 4.759 |
| 19 Nitrobenzene | 77 | 10.074 | 10.074 | (0.875) | 305450 | 5.00000 | 4.618 |
| 20 Isophorone | 82 | 10.563 | 10.563 | (0.918) | 670350 | 5.00000 | 5.376 |
| 21 2-Nitrophenol | 139 | 10.748 | 10.748 | (0.934) | 206856 | 5.00000 | 4.959 |
| 22 2,4-Dimethylphenol | 107 | 10.856 | 10.856 | (0.943) | 637755 | 10.00000 | 9.652 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.041 | 11.041 | (0.959) | 354820 | 5.00000 | 4.778 |
| 24 Benzoic acid | 105 | 11.080 | 11.080 | (0.962) | 448518 | 20.00000 | 10.23 |
| 25 2,4-Dichlorophenol | 162 | 11.257 | 11.257 | (0.978) | 616036 | 10.00000 | 9.692 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.427 | 11.427 | (0.993) | 297973 | 5.00000 | 4.925 |
| * 27 Naphthalene-d8 | 136 | 11.512 | 11.512 | (1.000) | 750130 | 4.00000 | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 11.558 | 11.558 | (1.004) | 946052 | 5.00000 | 5.003 |
| 29 4-Chloroaniline | 127 | 11.728 | 11.728 | (1.019) | 815406 | 10.00000 | 9.678 |
| 30 Hexachlorobutadiene | 225 | 11.960 | 11.960 | (1.039) | 168048 | 5.00000 | 5.165 |
| 31 4-Chloro-3-methylphenol | 107 | 12.803 | 12.803 | (1.112) | 585936 | 10.00000 | 10.27 |
| 32 2-Methylnaphthalene | 142 | 13.059 | 13.059 | (1.134) | 669768 | 5.00000 | 5.095 |
| 33 Hexachlorocyclopentadiene | 237 | 13.562 | 13.562 | (0.881) | 194586 | 10.00000 | 6.336 |
| 34 2,4,6-Trichlorophenol | 196 | 13.747 | 13.747 | (0.893) | 438543 | 10.00000 | 10.52 |
| 35 2,4,5-Trichlorophenol | 196 | 13.840 | 13.840 | (0.899) | 485745 | 10.00000 | 10.88 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.910 | 13.910 | (0.904) | 740375 | 5.00000 | 5.048 |
| 37 2-Chloronaphthalene | 162 | 14.119 | 14.119 | (0.918) | 639890 | 5.00000 | 5.103 |
| 38 2-Nitroaniline | 65 | 14.421 | 14.421 | (0.937) | 299349 | 10.00000 | 9.982 |
| 39 Dimethylphthalate | 163 | 14.908 | 14.908 | (0.969) | 659433 | 5.00000 | 5.072 |
| 40 Acenaphthylene | 152 | 15.048 | 15.048 | (0.978) | 1032645 | 5.00000 | 5.434 |
| 41 2,6-Dinitrotoluene | 165 | 15.048 | 15.048 | (0.978) | 329670 | 10.00000 | 10.41 |
| * 42 Acenaphthene-d10 | 164 | 15.388 | 15.388 | (1.000) | 423103 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.349 | 15.349 | (0.997) | 348362 | 10.00000 | 9.742 |
| 44 Acenaphthene | 153 | 15.458 | 15.458 | (1.005) | 584728 | 5.00000 | 5.102 |
| 45 2,4-Dinitrophenol | 184 | 15.581 | 15.581 | (1.013) | 120434 | 20.00000 | 5.842 |
| 46 Dibenzofuran | 168 | 15.813 | 15.813 | (1.028) | 858925 | 5.00000 | 5.115 |
| 47 4-Nitrophenol | 109 | 15.782 | 15.782 | (1.026) | 150918 | 10.00000 | 10.97 (M) |
| 48 2,4-Dinitrotoluene | 165 | 15.914 | 15.914 | (1.034) | 439618 | 10.00000 | 10.76 |
| 50 Diethylphthalate | 149 | 16.478 | 16.478 | (1.071) | 656206 | 5.00000 | 5.178 |
| 49 Fluorene | 166 | 16.579 | 16.579 | (1.077) | 719817 | 5.00000 | 5.595 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.594 | 16.594 | (1.078) | 366392 | 5.00000 | 5.997 |
| 52 4-Nitroaniline | 138 | 16.718 | 16.718 | (1.086) | 358475 | 10.00000 | 9.811 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.818 | 16.818 | (0.901) | 383740 | 20.00000 | 14.59 |
| 54 N-Nitrosodiphenylamine | 169 | 16.872 | 16.872 | (0.904) | 438371 | 5.00000 | 4.916 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.165 | 17.165 | (1.115) | 93113 | 5.00000 | 5.332 |
| 56 4-Bromophenyl-phenylether | 248 | 17.674 | 17.674 | (0.947) | 178217 | 5.00000 | 5.022 |
| 57 Hexachlorobenzene | 284 | 17.991 | 17.991 | (0.964) | 199187 | 5.00000 | 4.868 |
| 58 Pentachlorophenol | 266 | 18.401 | 18.401 | (0.986) | 210036 | 10.00000 | 9.754 |
| * 59 Phenanthrene-d10 | 188 | 18.657 | 18.657 | (1.000) | 662850 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.703 | 18.703 | (1.002) | 851705 | 5.00000 | 4.983 |
| 61 Anthracene | 178 | 18.803 | 18.803 | (1.008) | 940153 | 5.00000 | 5.265 |
| 62 Carbazole | 167 | 19.167 | 19.167 | (1.027) | 897670 | 5.00000 | 5.434 |
| 63 Di-n-butylphthalate | 149 | 20.018 | 20.018 | (1.073) | 1236383 | 5.00000 | 5.317 |
| 64 Fluoranthene | 202 | 21.125 | 21.125 | (1.132) | 1039907 | 5.00000 | 5.358 |
| 65 Pyrene | 202 | 21.542 | 21.542 | (0.908) | 1087964 | 5.00000 | 5.014 |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.860 | (0.921) | 664629 | 5.00000 | 4.889 |
| 67 Butylbenzylphthalate | 149 | 22.796 | 22.796 | (0.961) | 519237 | 5.00000 | 5.158 |
| 68 Benzo (a) anthracene | 228 | 23.695 | 23.695 | (0.999) | 974106 | 5.00000 | 4.856 |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 713203 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.679 | 23.679 | (0.998) | 1183532 | 10.00000 | 10.77 |
| 71 Chrysene | 228 | 23.772 | 23.772 | (1.002) | 875901 | 5.00000 | 4.963 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 747335 | 5.00000 | 4.851 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.809 | 24.809 | (1.000) | 1121736 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.817 | 24.817 | (1.000) | 1343283 | 5.00000 | 4.922 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 25.467 | 25.467 | (0.975) | 1032597 | 5.00000 | 5.249 |
| 75 Benzo(k)fluoranthene | 252 | 25.506 | 25.506 | (0.976) | 1056738 | 5.00000 | 4.879 (H) |
| 76 Benzo(a)pyrene | 252 | 26.033 | 26.033 | (0.996) | 911611 | 5.00000 | 5.035 |
| * 77 Perylene-d12 | 264 | 26.133 | 26.133 | (1.000) | 700277 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.388 | 28.388 | (1.086) | 1065206 | 5.00000 | 5.086 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.404 | 28.404 | (1.087) | 862231 | 5.00000 | 5.226 |
| 80 Benzo(g,h,i)perylene | 276 | 29.049 | 29.049 | (1.112) | 900912 | 5.00000 | 5.016 |
| 90 N-Nitrosodimethylamine | 74 | 4.282 | 4.282 | (0.483) | 390863 | 10.0000 | 9.798 |
| 91 Aniline | 93 | 8.306 | 8.306 | (0.937) | 843594 | 5.00000 | 4.446 |
| 93 Benzidine | 184 | 21.388 | 21.388 | (0.901) | 805231 | 10.0000 | 9.885 |
| 103 Pyridine | 79 | 4.297 | 4.297 | (0.485) | 323130 | 10.0000 | 9.382 |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.291 | (1.155) | 699980 | 5.00000 | 5.221 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.941 | 16.941 | (1.101) | 643855 | 5.00000 | 5.014 |
| 187 Total Benzofluoranthenes | 252 | 25.506 | 25.506 | (0.976) | 1969101 | 10.0000 | 10.13 |
| 99 Perylene | 252 | 26.180 | 26.180 | (1.002) | 912862 | 5.00000 | 5.015 |
| 98 Retene | 219 | 22.146 | 22.146 | (0.933) | 501977 | 5.00000 | 4.968 |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: cc0530.d
 Lab Smp Id: CC0530
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120530.b/ABN.m
 Misc Info:

Calibration Date: 30-MAY-2012
 Calibration Time: 12:27
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 191858 | 1.24 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 750130 | 2.63 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 423103 | 0.57 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 662850 | 3.74 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 713203 | 10.56 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1121736 | 10.39 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 700277 | 7.73 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.66 | 18.16 | 19.16 | 18.66 | 0.00 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.81 | 24.31 | 25.31 | 24.81 | 0.00 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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.

Date : 30-MAY-2012 12:27

Client ID:

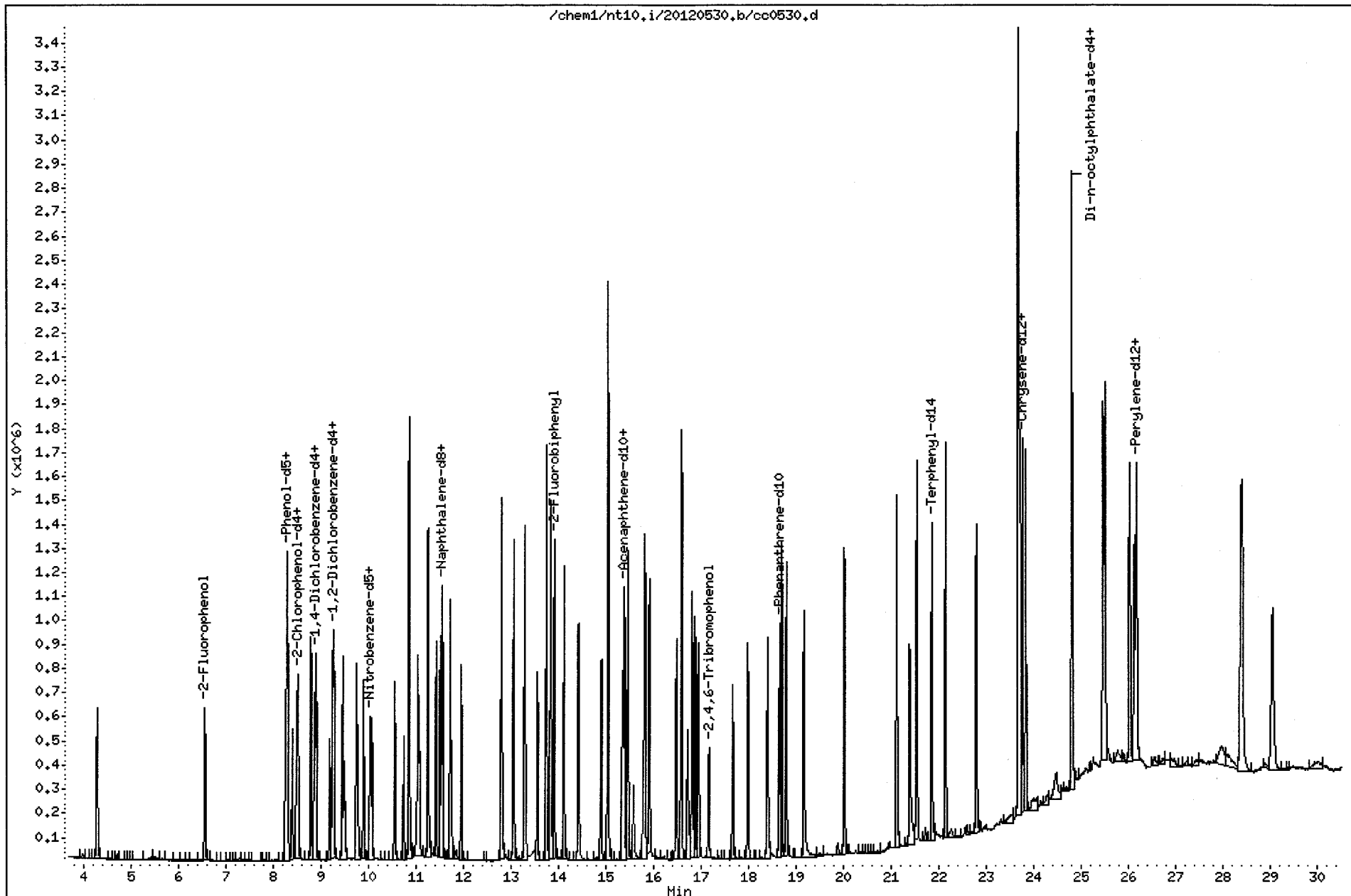
Sample Info: CC0530

Instrument: nt10,i

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UUS2:00675

CO-ELUTION SUMMARY FOR FILE - cc0530.d

Lab ID: CC0530, Method: ABN.m, Instrument: nt10.i, Date: 30-MAY-2012

RT CO-ELUTION COMPOUNDS

15.048 Acenaphthylene and 2,6-Dinitrotoluene

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

12/6/12

Data file : /chem1/nt10.i/20120526.b/uu52mb.d
 Lab Smp Id: UU52MBS1 Client Smp ID: UU52MBS1
 Inj Date : 26-MAY-2012 15:56
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52MBS1
 Misc Info : 12-8900
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 11:32 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 10.00000 | Weight of sample extracted (g) |
| M | 0.00000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | ==== | 112 | 6.552 | 6.537 | (0.740) | 269199 | 4.00387 | 400.4 |
| \$ 2 Phenol-d5 | | 99 | 8.229 | 8.237 | (0.929) | 345487 | 4.12511 | 412.5 |
| 3 Phenol | | 94 | Compound Not Detected. | | | | | |
| \$ 5 2-Chlorophenol-d4 | | 132 | 8.476 | 8.476 | (0.957) | 308315 | 4.20183 | 420.2 |
| 4 Bis(2-Chloroethyl) ether | | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | | 152 | 8.855 | 8.855 | (1.000) | 192270 | 4.00000 | |
| 9 1,4-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | | 152 | 9.236 | 9.236 | (1.043) | 133251 | 2.76824 | 276.8 |
| 12 1,2-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | | | | Compound Not Detected. | | |
| \$ 18 Nitrobenzene-d5 | 82 | 10.020 | 10.027 | (0.872) | 190061 | 2.80879 | 280.9 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | | | Compound Not Detected. | | |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.496 | 11.504 | (1.000) | 755212 | 4.00000 | |
| 28 Naphthalene | 128 | | | | Compound Not Detected. | | |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | | | | Compound Not Detected. | | |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.894 | 13.902 | (0.904) | 396112 | 2.78751 | 278.8 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | | | Compound Not Detected. | | |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.365 | 15.373 | (1.000) | 409923 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | | | Compound Not Detected. | | |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | | | Compound Not Detected. | | |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | | | | Compound Not Detected. | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.116) | 69910 | 4.13189 | 413.2 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 652568 | 4.00000 | |
| 60 Phenanthrene | 178 | | | | Compound Not Detected. | | |
| 61 Anthracene | 178 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--|--------|--------|---------|------------------------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | | | | | Compound Not Detected. | | | |
| 63 Di-n-butylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 64 Fluoranthene | 202 | | | | | Compound Not Detected. | | | |
| 65 Pyrene | 202 | | | | | Compound Not Detected. | | | |
| \$ 66 Terphenyl-d14 | 244 | | 21.836 | 21.844 | (0.921) | 398113 | 3.32196 | 332.2 | |
| 67 Butylbenzylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 68 Benzo(a)anthracene | 228 | | | | | Compound Not Detected. | | | |
| * 69 Chrysene-d12 | 240 | | 23.702 | 23.710 | (1.000) | 628746 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | Compound Not Detected. | | | |
| 71 Chrysene | 228 | | | | | Compound Not Detected. | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.818 | 23.818 | (0.961) | 17222 | 0.13755 | 13.76 (R) | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.794 | 24.794 | (1.000) | 911710 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 76 Benzo(a)pyrene | 252 | | | | | Compound Not Detected. | | | |
| * 77 Perylene-d12 | 264 | | 26.102 | 26.102 | (1.000) | 575994 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | | | | Compound Not Detected. | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | | Compound Not Detected. | | | |
| 80 Benzo(g,h,i)perylene | 276 | | | | | Compound Not Detected. | | | |
| 90 N-Nitrosodimethylamine | 74 | | | | | Compound Not Detected. | | | |
| 91 Aniline | 93 | | | | | Compound Not Detected. | | | |
| 93 Benzidine | 184 | | | | | Compound Not Detected. | | | |
| 103 Pyridine | 79 | | | | | Compound Not Detected. | | | |
| 105 1-methylnaphthalene | 142 | | | | | Compound Not Detected. | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | Compound Not Detected. | | | |
| 187 Total Benzofluoranthenes | 252 | | | | | Compound Not Detected. | | | |
| 99 Perylene | 252 | | | | | Compound Not Detected. | | | |
| 98 Retene | 219 | | | | | Compound Not Detected. | | | |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52mb.d
 Lab Smp Id: UU52MBS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8900

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: UU52MBS1
 Level: LOW
 Sample Type: Solid

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 192270 | 1.45 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 755212 | 3.32 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 409923 | -2.56 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 652568 | 2.13 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 628746 | -2.53 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 911710 | -10.28 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 575994 | -11.39 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.36 | -0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 0.00 |

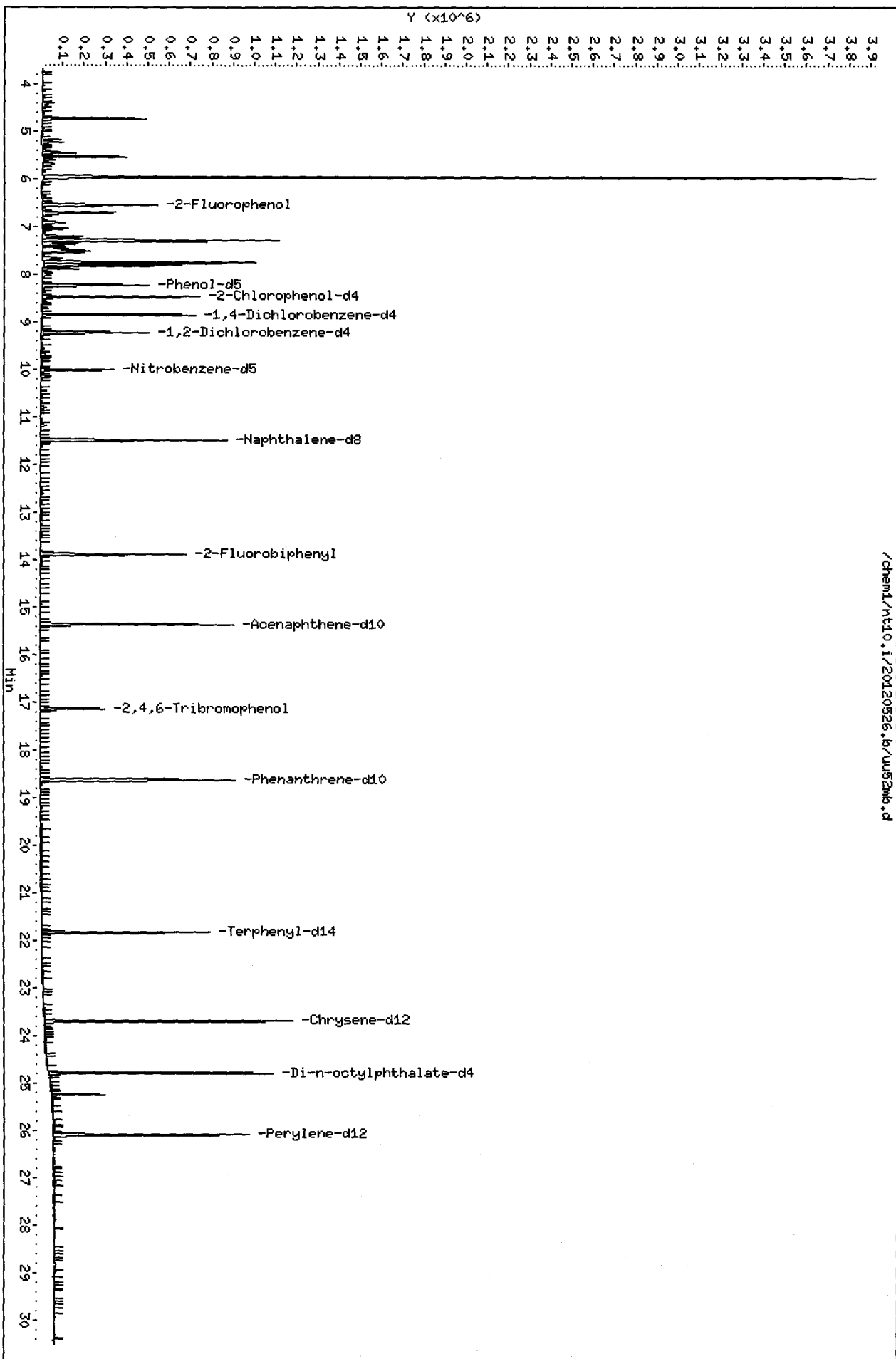
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|-----------------------|------------------------|----------------------------|----------------|--------|
| 76 Benzo(a)pyrene | 500.0 | 0.000 | * | 30-160 |
| 78 Indeno(1,2,3-cd)p | 500.0 | 0.000 | * | 30-160 |
| 79 Dibenzo(a,h)anthr | 500.0 | 0.000 | * | 30-160 |
| 80 Benzo(g,h,i)peryl | 500.0 | 0.000 | * | 30-160 |
| 105 1-methylnaphthale | 500.0 | 0.000 | * | 30-160 |
| 187 Total Benzofluora | 1000 | 0.000 | * | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 750.0 | 400.4 | 53.38 | 30-160 |
| \$ 2 Phenol-d5 | 750.0 | 412.5 | 55.00 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 750.0 | 420.2 | 56.02 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 500.0 | 276.8 | 55.36 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 500.0 | 280.9 | 56.18 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 500.0 | 278.8 | 55.75 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 750.0 | 413.2 | 55.09 | 30-160 |
| \$ 66 Terphenyl-d14 | 500.0 | 332.2 | 66.44 | 30-160 |

Data File: /chem1/nt10.i/20120526.br/u052mb.d
Date: 26-May-2012 15:56
Client ID: U052MB01
Sample Info: U052MB01
Volume Injected (uL): 1.0
Column phases: ZB-5msi

Instrument: nt10.i
Operator: VTS/YZ
Column diameter: 0.25



U052 : 00682

CO-ELUTION SUMMARY FOR FILE - uu52mb.d

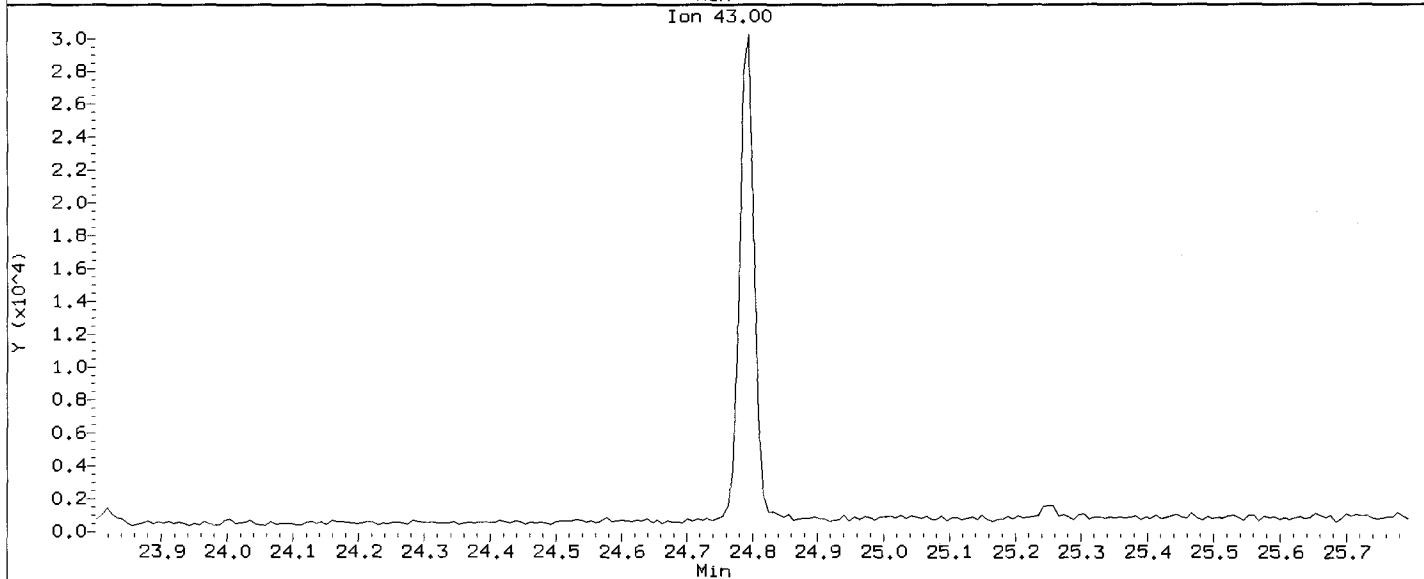
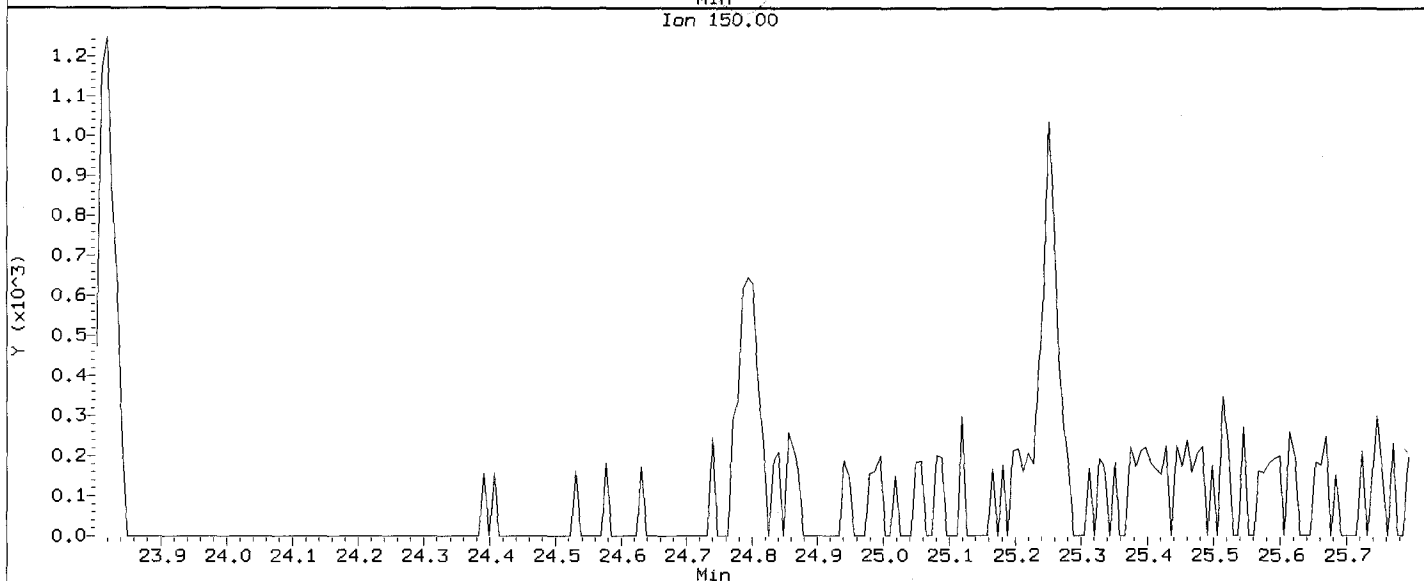
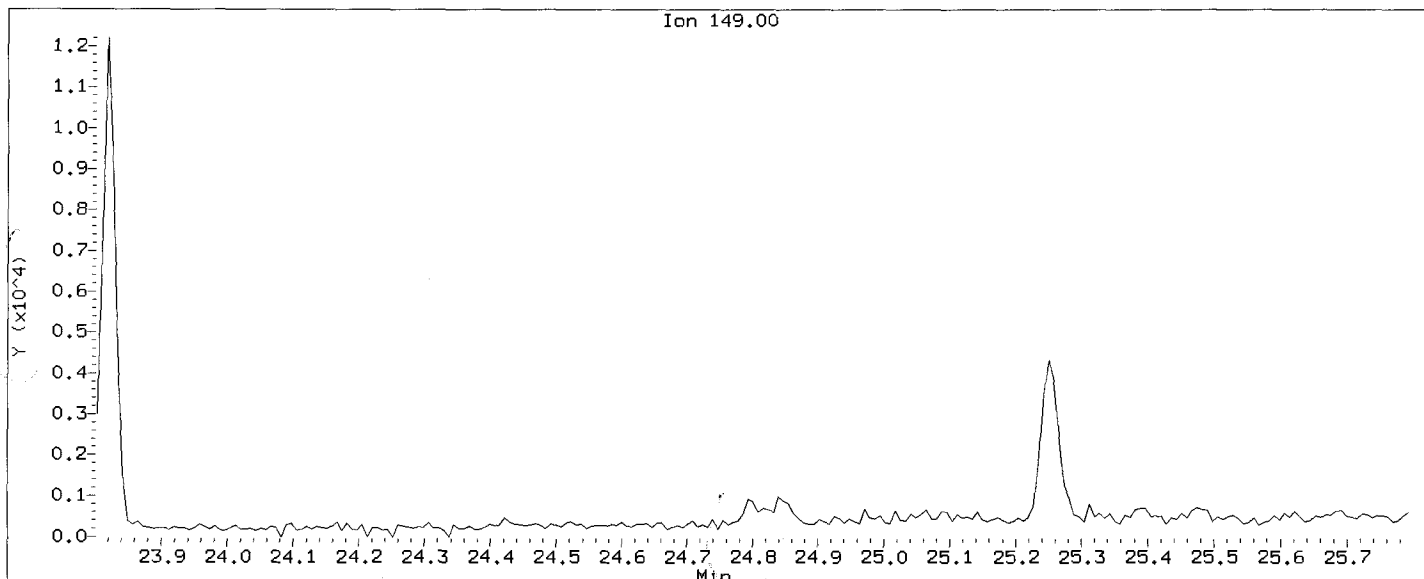
Lab ID: UU52MBS1, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Data File: /chem1/nt10.i/20120526.b/uu52mb.d
Injection Date: 26-MAY-2012 15:56
Instrument: nt10.i
Client Sample ID: UU52MBS1

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



UU52 : 00684

Analytical Resources, Inc.

YZ 6/4/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/uu52sb.d
 Lab Smp Id: UU52LCSS1 Client Smp ID: UU52LCSS1
 Inj Date : 26-MAY-2012 16:34
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52LCSS1
 Misc Info : 12-8900
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 11:32 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 10.00000 | Weight of sample extracted (g) |
| M | 0.00000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|-------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | | 112 | 6.552 | 6.537 | (0.740) | 351853 | 5.56028 | 556.0 |
| \$ 2 Phenol-d5 | | 99 | 8.237 | 8.237 | (0.930) | 454063 | 5.76035 | 576.0 |
| 3 Phenol | | 94 | 8.260 | 8.260 | (0.933) | 351312 | 4.18127 | 418.1 |
| \$ 5 2-Chlorophenol-d4 | | 132 | 8.476 | 8.476 | (0.957) | 391851 | 5.67406 | 567.4 |
| 4 Bis(2-Chloroethyl)ether | | 93 | 8.399 | 8.399 | (0.948) | 241368 | 3.85824 | 385.8 |
| 6 2-Chlorophenol | | 128 | 8.507 | 8.507 | (0.961) | 261774 | 3.52813 | 352.8 |
| 7 1,3-Dichlorobenzene | | 146 | 8.786 | 8.786 | (0.992) | 267027 | 3.59460 | 359.5 |
| * 8 1,4-Dichlorobenzene-d4 | | 152 | 8.855 | 8.855 | (1.000) | 180960 | 4.00000 | |
| 9 1,4-Dichlorobenzene | | 146 | 8.886 | 8.886 | (1.004) | 259775 | 3.58279 | 358.3 |
| \$ 10 1,2-Dichlorobenzene-d4 | | 152 | 9.236 | 9.236 | (1.043) | 163328 | 3.60515 | 360.5 |
| 12 1,2-Dichlorobenzene | | 146 | 9.259 | 9.267 | (1.046) | 257060 | 3.63347 | 363.3 |
| 11 Benzyl alcohol | | 108 | 9.166 | 9.166 | (1.035) | 143480 | 4.06465 | 406.5 |
| 14 2,2'-oxybis(1-Chloropropane) | | 121 | 9.492 | 9.492 | (1.072) | 84639 | 3.67502 | 367.5 |
| 13 2-Methylphenol | | 108 | 9.430 | 9.430 | (1.065) | 210118 | 3.17296 | 317.3 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|-------------------------------|-----------|--------|--------|---------|----------------|-------------------|---------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | 9.888 | 9.888 | (1.117) | 101404 | 3.59971 | 360.0 |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.764 | 9.764 | (1.103) | 143731 | 3.68331 | 368.3 |
| 15 4-Methylphenol | 108 | 9.733 | 9.725 | (1.099) | 453028 | 6.55726 | 655.7 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.020 | 10.027 | (0.872) | 232022 | 3.63076 | 363.1 |
| 19 Nitrobenzene | 77 | 10.058 | 10.058 | (0.875) | 235293 | 3.74110 | 374.1 |
| 20 Isophorone | 82 | 10.540 | 10.547 | (0.917) | 463703 | 3.91094 | 391.1 |
| 21 2-Nitrophenol | 139 | 10.733 | 10.733 | (0.934) | 144195 | 3.63588 | 363.6 |
| 22 2,4-Dimethylphenol | 107 | 10.833 | 10.833 | (0.942) | 586325 | 9.33235 | 933.2 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.034 | 11.033 | (0.960) | 275135 | 3.89645 | 389.6 |
| 24 Benzoic acid | 105 | 11.057 | 11.087 | (0.962) | 556369 | 13.2797 | 1328 |
| 25 2,4-Dichlorophenol | 162 | 11.234 | 11.234 | (0.977) | 664257 | 10.9919 | 1099 |
| 26 1,2,4-Trichlorobenzene | 180 | 11.411 | 11.419 | (0.993) | 208928 | 3.63160 | 363.2 |
| * 27 Naphthalene-d8 | 136 | 11.496 | 11.504 | (1.000) | 713226 | 4.00000 | |
| 28 Naphthalene | 128 | 11.542 | 11.542 | (1.004) | 717706 | 3.99160 | 399.2 |
| 29 4-Chloroaniline | 127 | 11.705 | 11.705 | (1.018) | 691348 | 8.63020 | 863.0 |
| 30 Hexachlorobutadiene | 225 | 11.944 | 11.952 | (1.039) | 115797 | 3.74315 | 374.3 |
| 31 4-Chloro-3-methylphenol | 107 | 12.780 | 12.780 | (1.112) | 648715 | 11.9638 | 1196 |
| 32 2-Methylnaphthalene | 142 | 13.035 | 13.043 | (1.134) | 480451 | 3.84368 | 384.4 |
| 33 Hexachlorocyclopentadiene | 237 | 13.546 | 13.554 | (0.881) | 280755 | 9.48564 | 948.6 |
| 34 2,4,6-Trichlorophenol | 196 | 13.724 | 13.732 | (0.893) | 450023 | 11.3365 | 1134 |
| 35 2,4,5-Trichlorophenol | 196 | 13.809 | 13.809 | (0.898) | 480362 | 11.3040 | 1130 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 509056 | 3.64542 | 364.5 |
| 37 2-Chloronaphthalene | 162 | 14.103 | 14.103 | (0.917) | 448978 | 3.76110 | 376.1 |
| 38 2-Nitroaniline | 65 | 14.405 | 14.405 | (0.937) | 366504 | 12.8369 | 1284 |
| 39 Dimethylphthalate | 163 | 14.893 | 14.893 | (0.969) | 523986 | 4.23349 | 423.3 |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.978) | 714247 | 3.94791 | 394.8 |
| 41 2,6-Dinitrotoluene | 165 | 15.024 | 15.032 | (0.977) | 377144 | 12.5070 | 1251 |
| * 42 Acenaphthene-d10 | 164 | 15.373 | 15.373 | (1.000) | 402827 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.326 | 15.326 | (0.997) | 356497 | 10.4710 | 1047 |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.005) | 444597 | 4.07423 | 407.4 |
| 45 2,4-Dinitrophenol | 184 | 15.558 | 15.558 | (1.012) | 358932 | 17.9335 | 1793 |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.028) | 629715 | 3.93889 | 393.9 |
| 47 4-Nitrophenol | 109 | 15.728 | 15.728 | (1.023) | 181639 | 13.8628 | 1386 |
| 48 2,4-Dinitrotoluene | 165 | 15.898 | 15.898 | (1.034) | 508723 | 13.0761 | 1308 |
| 50 Diethylphthalate | 149 | 16.470 | 16.470 | (1.071) | 536826 | 4.44895 | 444.9 |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 504171 | 4.11578 | 411.6 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.579 | 16.579 | (1.078) | 234854 | 4.03766 | 403.8 |
| 52 4-Nitroaniline | 138 | 16.687 | 16.687 | (1.085) | 415166 | 11.9343 | 1193 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.795 | 16.802 | (0.901) | 552498 | 22.7085 | 2271 |
| 54 N-Nitrosodiphenylamine | 169 | 16.856 | 16.856 | (0.905) | 337666 | 4.09363 | 409.4 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.142 | 17.142 | (1.115) | 103270 | 6.21108 | 621.1 |
| 56 4-Bromophenyl-phenylether | 248 | 17.658 | 17.658 | (0.948) | 138020 | 4.20468 | 420.5 |
| 57 Hexachlorobenzene | 284 | 17.975 | 17.975 | (0.965) | 153096 | 4.04511 | 404.5 |
| 58 Pentachlorophenol | 266 | 18.378 | 18.378 | (0.986) | 232414 | 11.6050 | 1160 |
| * 59 Phenanthrene-d10 | 188 | 18.633 | 18.633 | (1.000) | 613172 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.680 | 18.687 | (1.002) | 700154 | 4.42818 | 442.8 |
| 61 Anthracene | 178 | 18.780 | 18.780 | (1.008) | 682167 | 4.13007 | 413.0 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.144 | 19.144 | (1.027) | 704781 | 4.61160 | 461.2 | |
| 63 Di-n-butylphthalate | 149 | 20.011 | 20.010 | (1.074) | 976462 | 4.53984 | 454.0 | |
| 64 Fluoranthene | 202 | 21.101 | 21.101 | (1.132) | 833125 | 4.64078 | 464.1 | |
| 65 Pyrene | 202 | 21.519 | 21.519 | (0.908) | 835877 | 4.49942 | 449.9 | |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.844 | (0.922) | 483974 | 4.15867 | 415.9 | |
| 67 Butylbenzylphthalate | 149 | 22.781 | 22.781 | (0.961) | 396379 | 4.59964 | 460.0 | |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 740526 | 4.31174 | 431.2 | |
| * 69 Chrysene-d12 | 240 | 23.702 | 23.710 | (1.000) | 610564 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.656 | 23.656 | (0.998) | 417995 | 4.44495 | 444.5 | |
| 71 Chrysene | 228 | 23.749 | 23.749 | (1.002) | 665513 | 4.40489 | 440.5 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.819 | 23.818 | (0.961) | 594305 | 4.66596 | 466.6 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 927500 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 24.802 | 24.802 | (1.000) | 1036214 | 4.59204 | 459.2 | |
| 74 Benzo(b)fluoranthene | 252 | 25.444 | 25.452 | (0.975) | 801643 | 4.74668 | 474.7 | |
| 75 Benzo(k)fluoranthene | 252 | 25.483 | 25.483 | (0.976) | 765650 | 4.11729 | 411.7 | |
| 76 Benzo(a)pyrene | 252 | 26.002 | 26.002 | (0.996) | 624438 | 4.01696 | 401.7 | |
| * 77 Perylene-d12 | 264 | 26.102 | 26.102 | (1.000) | 601200 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.342 | 28.342 | (1.086) | 800878 | 4.45390 | 445.4 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.357 | 28.365 | (1.086) | 635951 | 4.48976 | 449.0 | |
| 80 Benzo(g,h,i)perylene | 276 | 28.994 | 29.002 | (1.111) | 697341 | 4.52250 | 452.2 | |
| 90 N-Nitrosodimethylamine | 74 | 4.313 | 4.266 | (0.487) | 391174 | 10.3968 | 1040 | |
| 91 Aniline | 93 | 8.291 | 8.291 | (0.936) | 584871 | 3.26779 | 326.8 | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | 4.320 | 4.282 | (0.488) | 560842 | 17.2641 | 1726 | |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 | (1.155) | 478242 | 3.75158 | 375.2 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.926 | 16.926 | (1.101) | 485420 | 3.97038 | 397.0 | |
| 187 Total Benzofluoranthenes | 252 | 25.483 | 25.483 | (0.976) | 1481220 | 8.87934 | 887.9 | |
| 99 Perylene | 252 | 26.149 | 26.149 | (1.002) | 486464 | 3.11293 | 311.3 | |
| 98 Retene | 219 | Compound Not Detected. | | | | | | |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52sb.d
 Lab Smp Id: UU52LCSS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8900

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: UU52LCSS1
 Level: LOW
 Sample Type: Solid

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 180960 | -4.51 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 713226 | -2.42 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 402827 | -4.25 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 613172 | -4.03 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 610564 | -5.35 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 927500 | -8.72 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 601200 | -7.51 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.63 | 0.00 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.70 | -0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.10 | 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: Anchor QEA, LLC. Client SDG: UU52
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: UU52LCSS1 Client Smp ID: UU52LCSS1
 Level: LOW Operator: VTS/YZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: SHORTPSDDA.spk Quant Type: ISTD
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8900

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|-----------------------|------------------------|----------------------------|----------------|--------|
| 3 Phenol | 500.0 | 418.1 | 83.63 | 30-160 |
| 7 1,3-Dichlorobenzen | 500.0 | 359.5 | 71.89 | 30-160 |
| 9 1,4-Dichlorobenzen | 500.0 | 358.3 | 71.66 | 30-160 |
| 11 Benzyl alcohol | 500.0 | 406.5 | 81.29 | 30-160 |
| 12 1,2-Dichlorobenzen | 500.0 | 363.3 | 72.67 | 30-160 |
| 13 2-Methylphenol | 500.0 | 317.3 | 63.46 | 30-160 |
| 15 4-Methylphenol | 1000 | 655.7 | 65.57 | 30-160 |
| 17 Hexachloroethane | 500.0 | 360.0 | 71.99 | 30-160 |
| 22 2,4-Dimethylphenol | 1500 | 933.2 | 62.22 | 30-160 |
| 24 Benzoic acid | 2750 | 1328 | 48.29 | 30-160 |
| 26 1,2,4-Trichloroben | 500.0 | 363.2 | 72.63 | 30-160 |
| 28 Naphthalene | 500.0 | 399.2 | 79.83 | 30-160 |
| 30 Hexachlorobutadien | 500.0 | 374.3 | 74.86 | 30-160 |
| 32 2-Methylnaphthalen | 500.0 | 384.4 | 76.87 | 30-160 |
| 39 Dimethylphthalate | 500.0 | 423.3 | 84.67 | 30-160 |
| 40 Acenaphthylene | 500.0 | 394.8 | 78.96 | 30-160 |
| 44 Acenaphthene | 500.0 | 407.4 | 81.48 | 30-160 |
| 46 Dibenzofuran | 500.0 | 393.9 | 78.78 | 30-160 |
| 49 Fluorene | 500.0 | 411.6 | 82.32 | 30-160 |
| 50 Diethylphthalate | 500.0 | 444.9 | 88.98 | 30-160 |
| 54 N-Nitrosodiphenyla | 500.0 | 409.4 | 81.87 | 30-160 |
| 57 Hexachlorobenzene | 500.0 | 404.5 | 80.90 | 30-160 |
| 58 Pentachlorophenol | 1500 | 1160 | 77.37 | 30-160 |
| 60 Phenanthrene | 500.0 | 442.8 | 88.56 | 30-160 |
| 61 Anthracene | 500.0 | 413.0 | 82.60 | 30-160 |
| 63 Di-n-butylphthalat | 500.0 | 454.0 | 90.80 | 30-160 |
| 64 Fluoranthene | 500.0 | 464.1 | 92.82 | 30-160 |
| 65 Pyrene | 500.0 | 449.9 | 89.99 | 30-160 |
| 67 Butylbenzylphthala | 500.0 | 460.0 | 91.99 | 30-160 |
| 68 Benzo(a)anthracene | 500.0 | 431.2 | 86.23 | 30-160 |
| 71 Chrysene | 500.0 | 440.5 | 88.10 | 30-160 |
| 72 bis(2-Ethylhexyl)p | 500.0 | 466.6 | 93.32 | 30-160 |
| 73 Di-n-octylphthalat | 500.0 | 459.2 | 91.84 | 30-160 |

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|------------------------|------------------------|----------------------------|----------------|--------|
| 76 Benzo(a)pyrene | 500.0 | 401.7 | 80.34 | 30-160 |
| 78 Indeno(1,2,3-cd)py | 500.0 | 445.4 | 89.08 | 30-160 |
| 79 Dibenzo(a,h)anthra | 500.0 | 449.0 | 89.80 | 30-160 |
| 80 Benzo(g,h,i)peryle | 500.0 | 452.2 | 90.45 | 30-160 |
| 105 1-methylnaphthalen | 500.0 | 375.2 | 75.03 | 30-160 |
| 187 Total Benzofluoran | 1000 | 887.9 | 88.79 | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 750.0 | 556.0 | 74.14 | 30-160 |
| \$ 2 Phenol-d5 | 750.0 | 576.0 | 76.80 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 750.0 | 567.4 | 75.65 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 500.0 | 360.5 | 72.10 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 500.0 | 363.1 | 72.62 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 500.0 | 364.5 | 72.91 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 750.0 | 621.1 | 82.81 | 30-160 |
| \$ 66 Terphenyl-d14 | 500.0 | 415.9 | 83.17 | 30-160 |

Date : 26-MAY-2012 16:34

Client ID: UU52LCSS1

Instrument: nt10,i

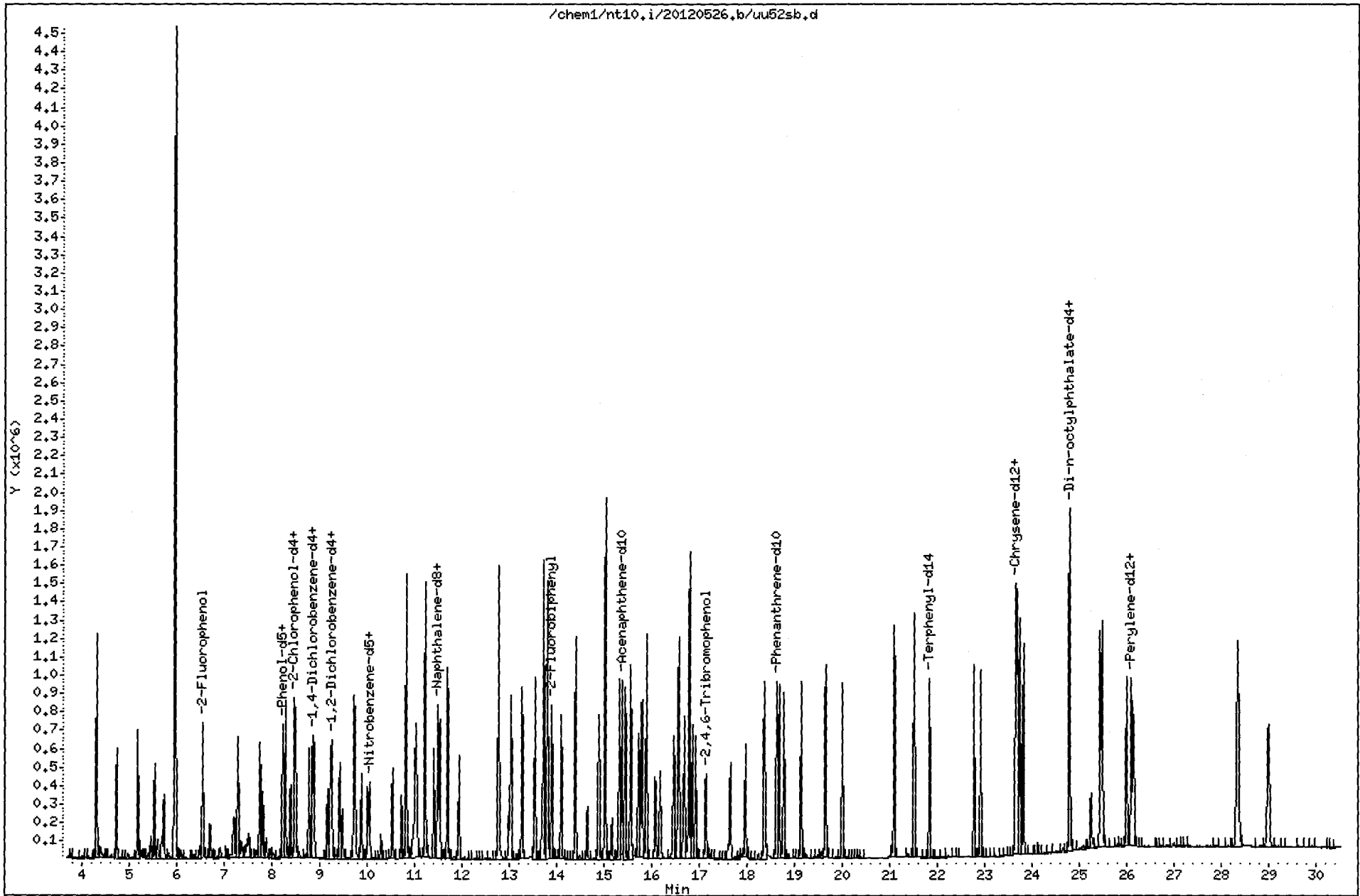
Sample Info: UU52LCSS1

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25



UU52:00691

CO-ELUTION SUMMARY FOR FILE - uu52sb.d

Lab ID: UU52LCSS1, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 6/4/12

Semivolatible Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/uu52a.d
 Lab Smp Id: UU52A Client Smp ID: MS001-SS-120515
 Inj Date : 26-MAY-2012 17:11
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52A,3
 Misc Info : 12-8893
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 3
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 104.00000 | Weight of sample extracted (g) |
| M | 90.30000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|------------------------|--------|---------|----------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | | | | | | | (ug/mL) | (ug/kg) |
| \$ 1 2-Fluorophenol | | 112 | 6.552 | 6.537 | (0.740) | 110825 | 1.64654 | 489.7 |
| \$ 2 Phenol-d5 | | 99 | 8.237 | 8.237 | (0.930) | 143040 | 1.70604 | 507.3 |
| 3 Phenol | | 94 | 8.268 | 8.260 | (0.934) | 90446 | 1.01205 | 301.0 |
| \$ 5 2-Chlorophenol-d4 | | 132 | 8.484 | 8.476 | (0.958) | 123999 | 1.68807 | 502.0 |
| 4 Bis(2-Chloroethyl)ether | | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | | 152 | 8.856 | 8.855 | (1.000) | 192479 | 4.00000 | |
| 9 1,4-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | | 152 | 9.236 | 9.236 | (1.043) | 49316 | 1.02341 | 304.3 |
| 12 1,2-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|--------|---------|-----|-------|------------------------|----------------|---------|
| | | | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | | | (ug/mL) | (ug/kg) |
| ===== | ===== | | == | ===== | ===== | | ===== | ===== | ===== | ===== |
| 17 Hexachloroethane | 117 | | | | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | | 9.733 | 9.725 | (1.099) | | | 282761 | 3.84783 | 1144 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.028 | 10.027 | (0.872) | | | 72049 | 1.04858 | 311.8 |
| 19 Nitrobenzene | 77 | | | | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | 11.003 | 11.087 | (0.957) | | | 57862 | 1.31031 | 389.7 |
| 25 2,4-Dichlorophenol | 162 | | | | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | | 11.496 | 11.504 | (1.000) | | | 766868 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.543 | 11.542 | (1.004) | | | 710552 | 3.67538 | 1093 |
| 29 4-Chloroaniline | 127 | | | | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | | 13.043 | 13.043 | (1.135) | | | 77549 | 0.57701 | 171.6 |
| 33 Hexachlorocyclopentadiene | 237 | | | | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.895 | 13.902 | (0.904) | | | 170901 | 1.16120 | 345.3 |
| 37 2-Chloronaphthalene | 162 | | | | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | 15.032 | 15.032 | (0.978) | | | 48420 | 0.25394 | 75.52 |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | | 15.373 | 15.373 | (1.000) | | | 424558 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | 15.442 | 15.442 | (1.005) | | | 43181 | 0.37545 | 111.7 |
| 45 2,4-Dinitrophenol | 184 | | | | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | 15.798 | 15.798 | (1.028) | | | 101884 | 0.60467 | 179.8 |
| 47 4-Nitrophenol | 109 | | | | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | | 16.563 | 16.563 | (1.077) | | | 52239 | 0.40462 | 120.3 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 17.150 | 17.142 | (1.116) | | | 32386 | 1.84813 | 549.6 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | | 18.641 | 18.633 | (1.000) | | | 586032 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.688 | 18.687 | (1.002) | | | 349480 | 2.31268 | 687.8 |
| 61 Anthracene | 178 | | 18.780 | 18.780 | (1.007) | | | 72099 | 0.45673 | 135.8 |

| Compounds | QUANT | | SIG | | | | CONCENTRATIONS | |
|-----------------------------------|-------|------------------------|--------|---------|----------|-------------------|----------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.152 | 19.144 | (1.027) | 20102 | 0.13763 | J 40.93 (M) | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.125 | 21.101 | (1.133) | 377509 | 2.20024 | 654.3 | |
| 65 Pyrene | 202 | 21.527 | 21.519 | (0.908) | 394416 | 1.95053 | 580.1 | |
| \$ 66 Terphenyl-d14 | 244 | 21.844 | 21.844 | (0.921) | 156401 | 1.23469 | 367.2 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo(a)anthracene | 228 | 23.679 | 23.679 | (0.999) | 99573 | 0.53265 | 158.4 | |
| * 69 Chrysene-d12 | 240 | 23.710 | 23.710 | (1.000) | 664578 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.757 | 23.749 | (1.002) | 234729 | 1.42735 | 424.5 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.826 | 23.818 | (0.961) | 70591 | 0.47514 | 141.3 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.794 | 24.794 | (1.000) | 1081857 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo(a)pyrene | 252 | 26.010 | 26.002 | (0.996) | 150542 | 0.86405 | 257.0 | |
| * 77 Perylene-d12 | 264 | 26.110 | 26.102 | (1.000) | 673821 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.357 | 28.342 | (1.086) | 136614 | 0.67787 | 201.6 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.365 | 28.365 | (1.086) | 29913 | 0.18842 | 56.03 | |
| 80 Benzo(g,h,i)perylene | 276 | 29.018 | 29.002 | (1.111) | 158572 | 0.91756 | 272.9 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.275 | 13.275 | (1.155) | 48825 | 0.35622 | 105.9 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.452 | 25.483 | (0.975) | 358743 | 1.91875 | 570.6 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.131 | 22.131 | (0.933) | 23982 | 0.25469 | 75.74 | |

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: uu52a.d
 Lab Smp Id: UU52A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8893

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS001-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 192479 | 1.56 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 766868 | 4.92 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 424558 | 0.92 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 586032 | -8.28 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 664578 | 3.02 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1081857 | 6.47 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 673821 | 3.66 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | -0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.37 | 0.00 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.71 | 0.00 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.79 | 0.00 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.11 | 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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52A | Client Smp ID: MS001-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8893 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 743.5 | 489.7 | 65.86 | 30-160 |
| \$ 2 Phenol-d5 | 743.5 | 507.3 | 68.24 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 743.5 | 502.0 | 67.52 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 495.6 | 304.3 | 61.40 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 495.6 | 311.8 | 62.92 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 495.6 | 345.3 | 69.67 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 743.5 | 549.6 | 73.93 | 30-160 |
| \$ 66 Terphenyl-d14 | 495.6 | 367.2 | 74.08 | 30-160 |

Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10,i

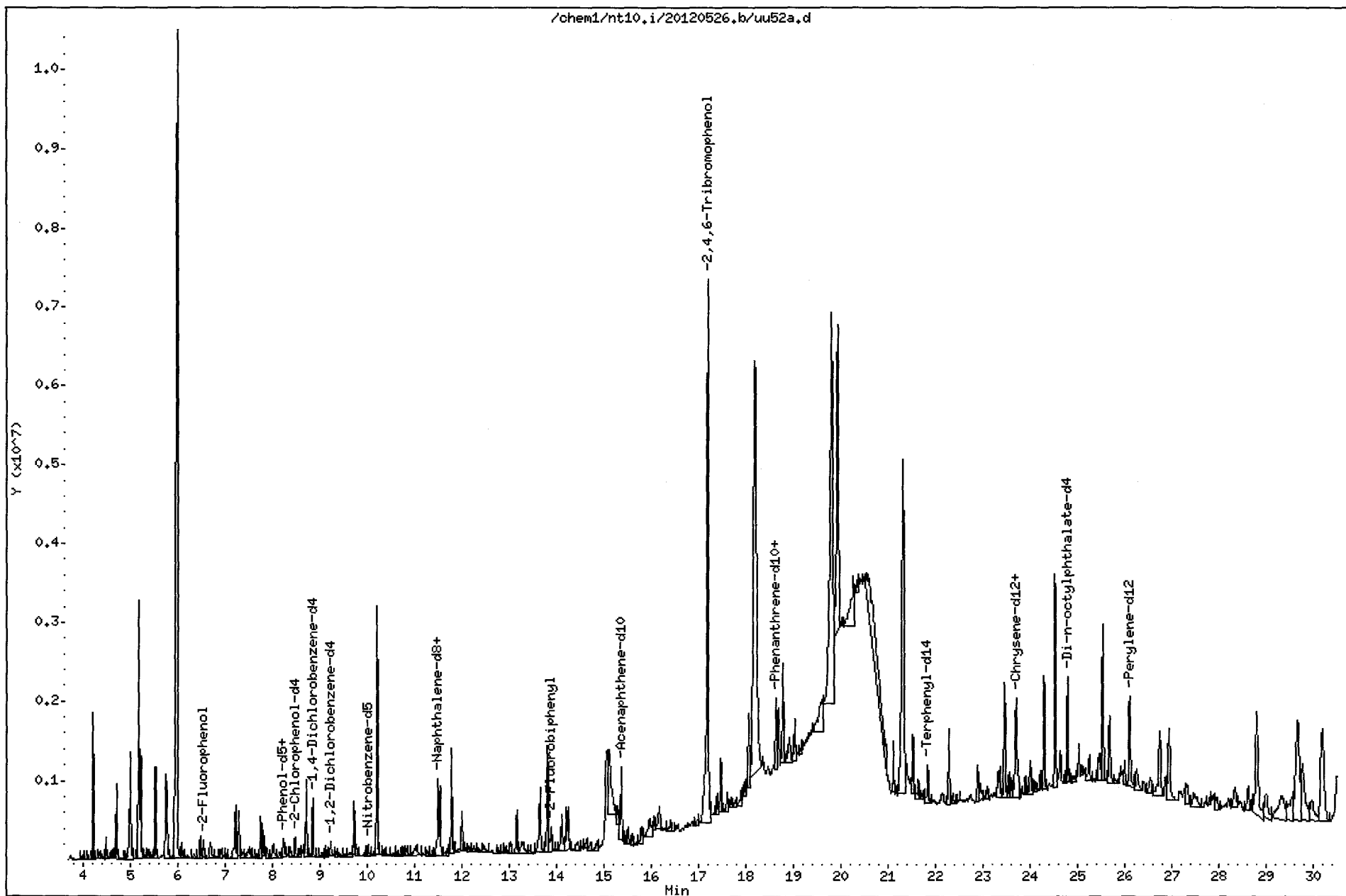
Sample Info: UU52A,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25



UU52:00698

Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

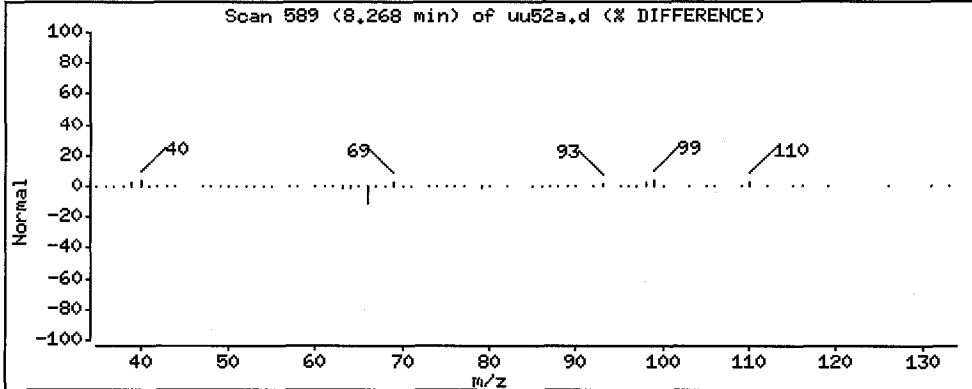
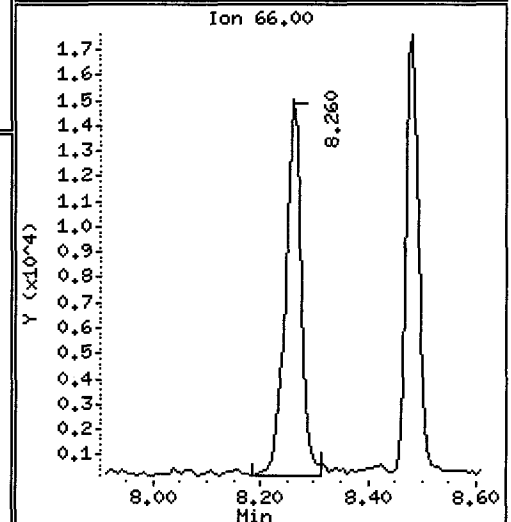
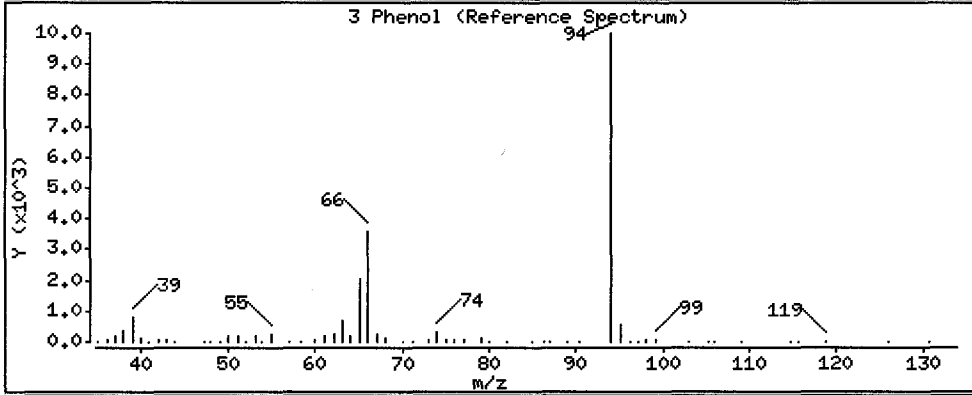
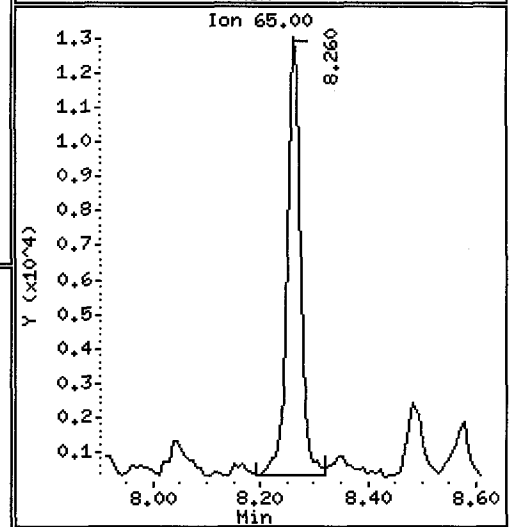
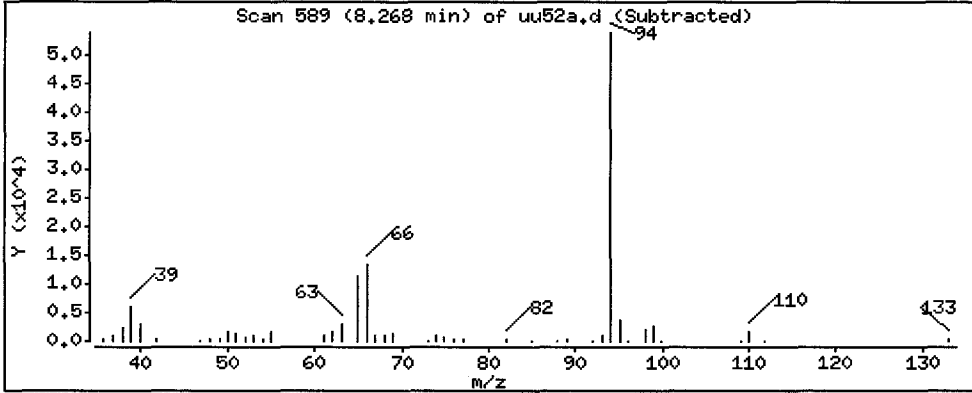
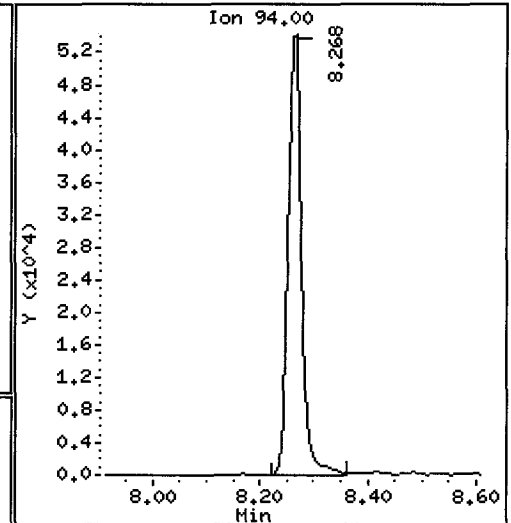
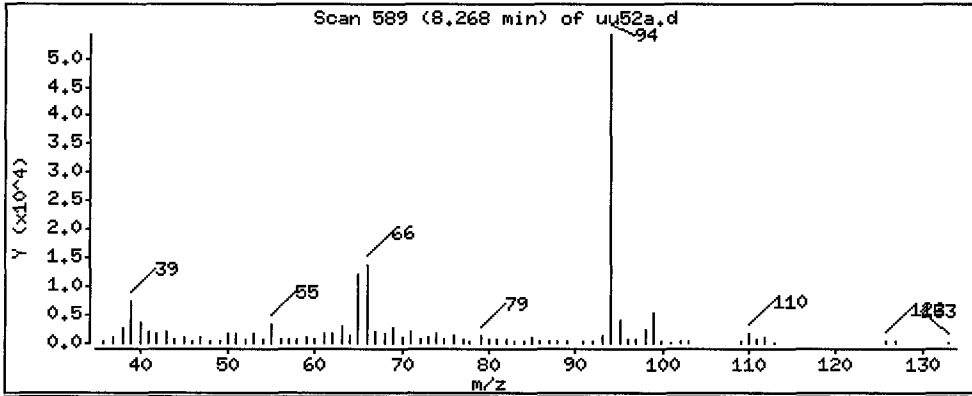
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 301.0 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

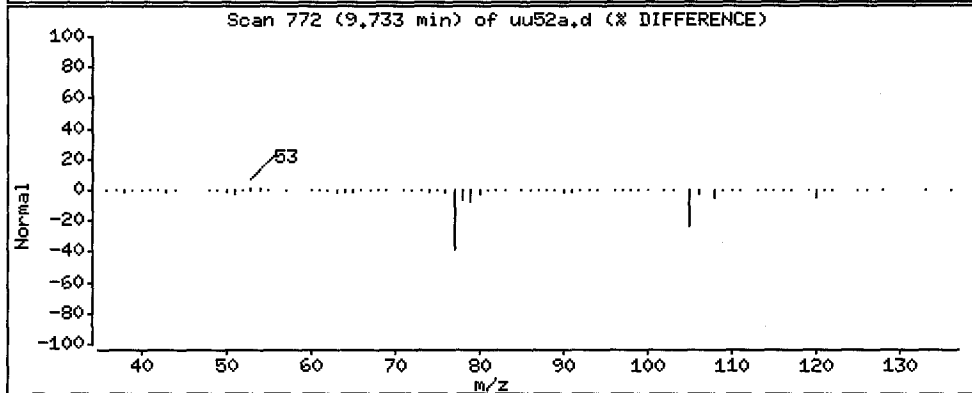
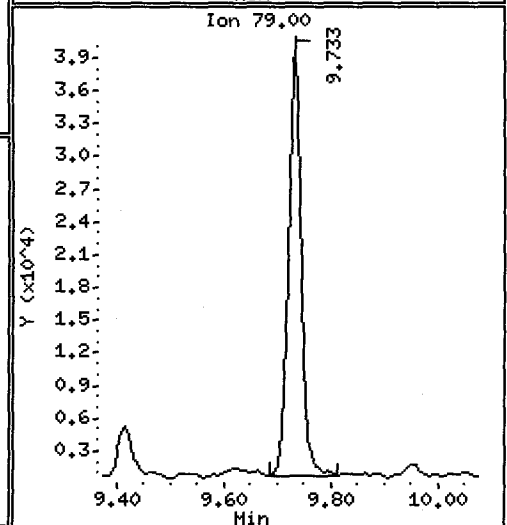
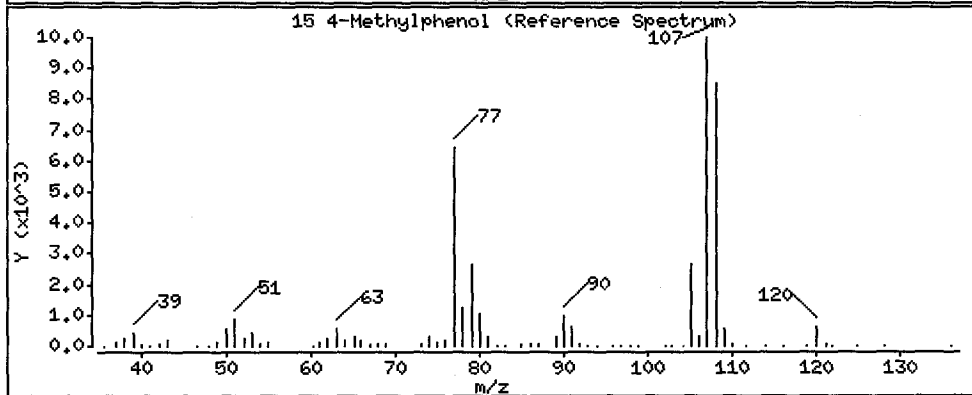
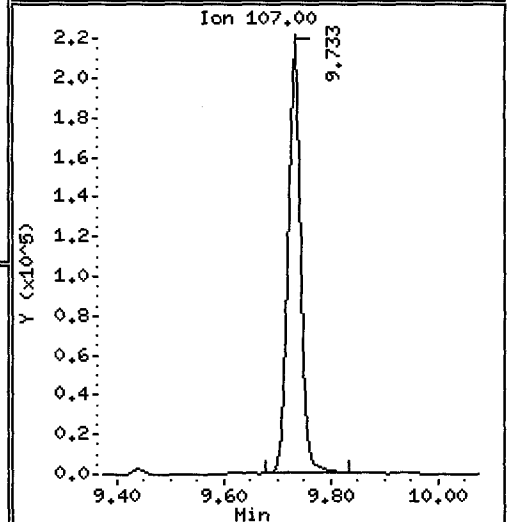
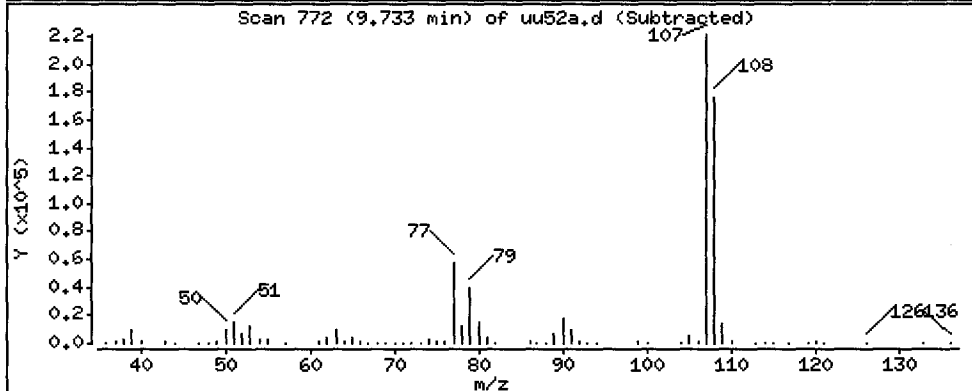
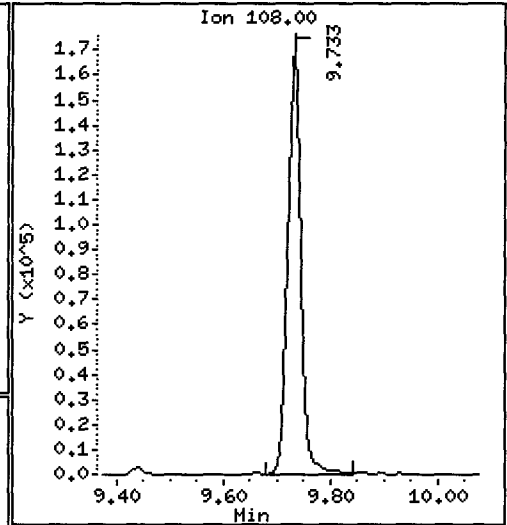
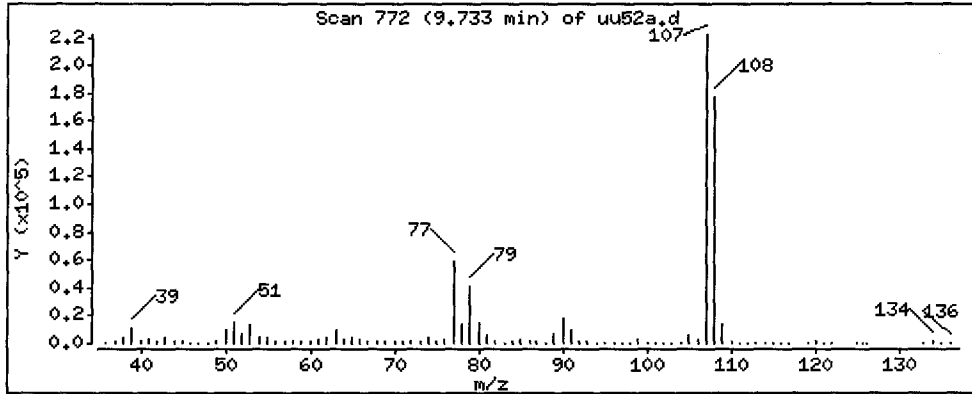
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1144 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

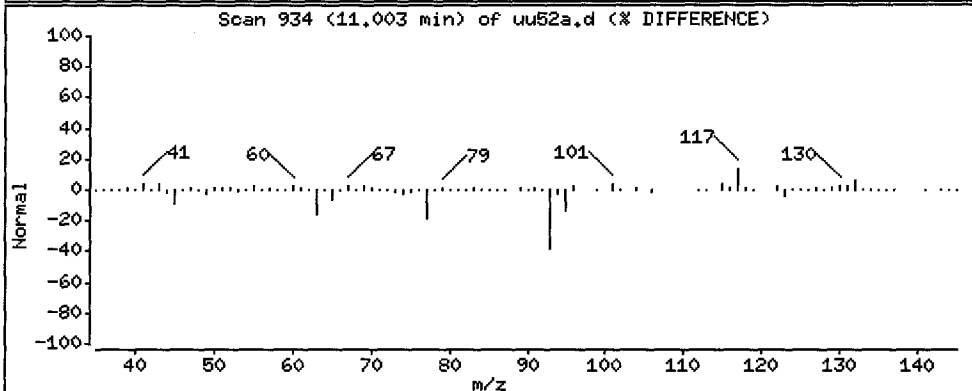
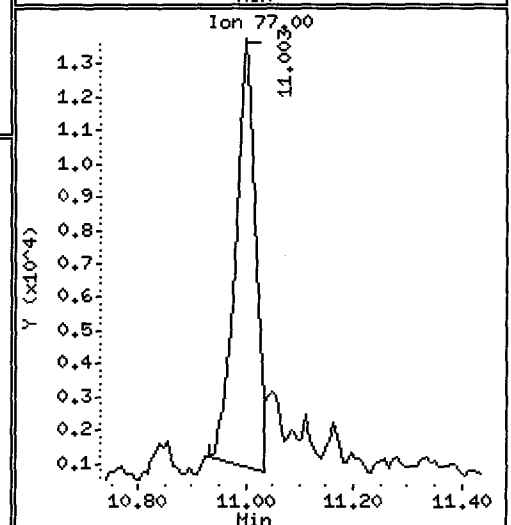
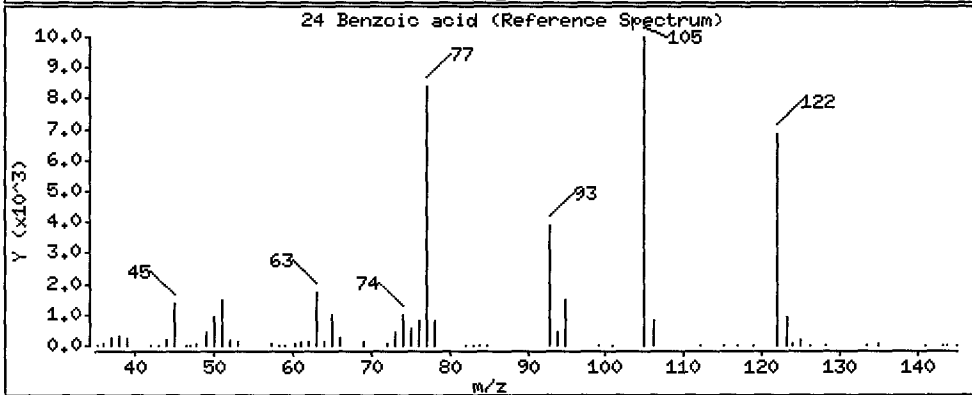
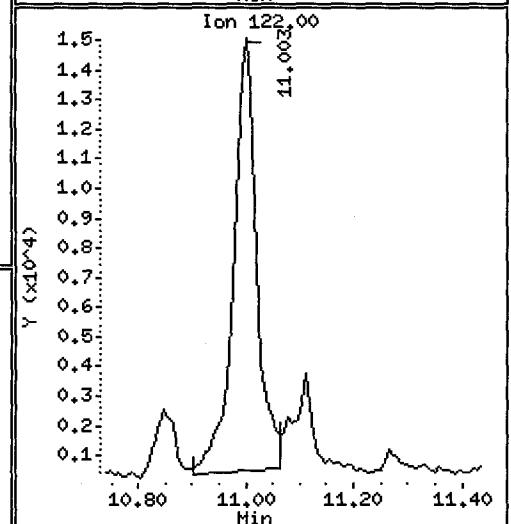
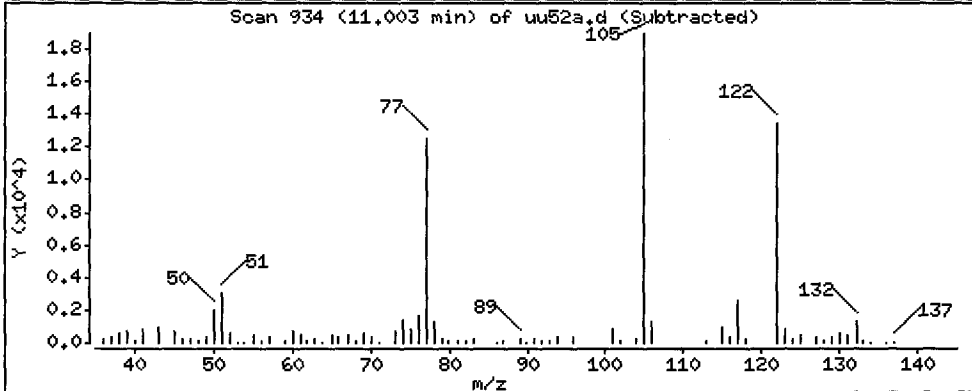
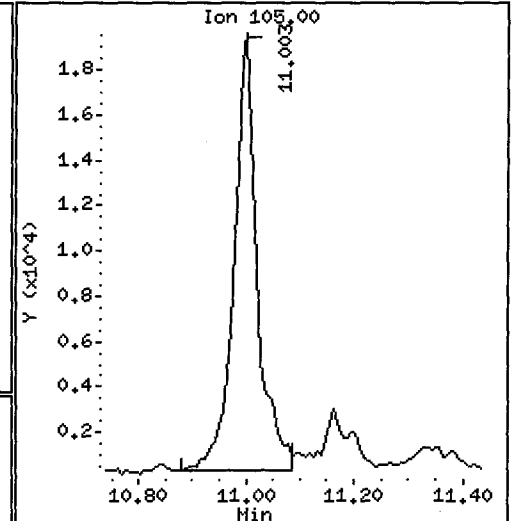
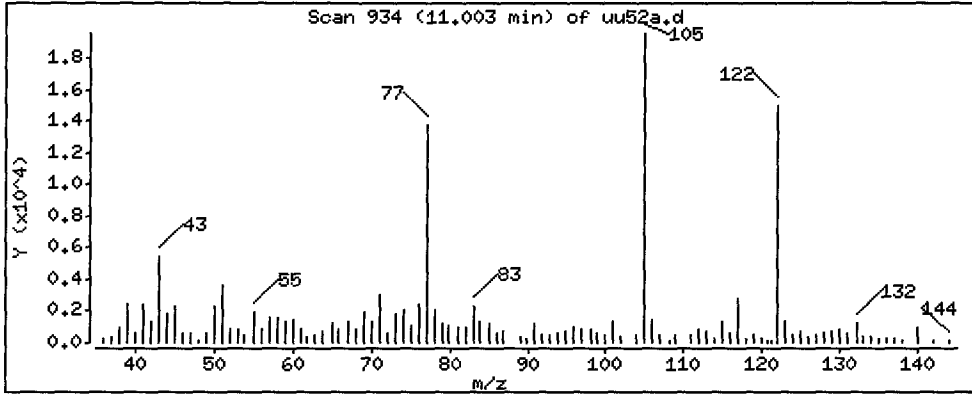
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 389.7 ug/kg

GCAL



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

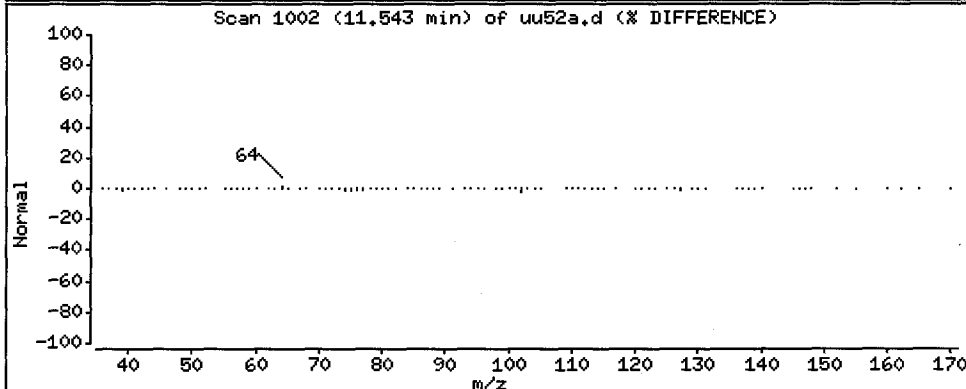
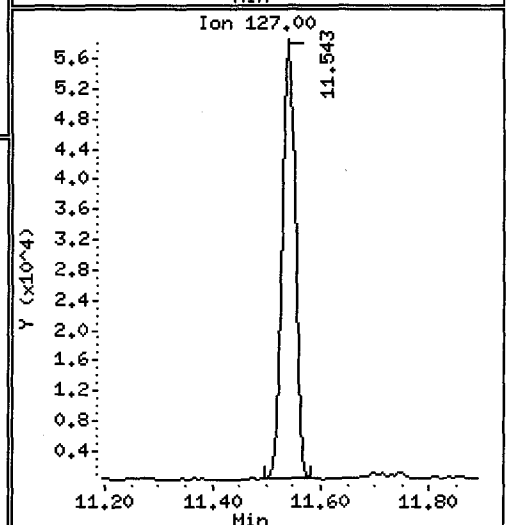
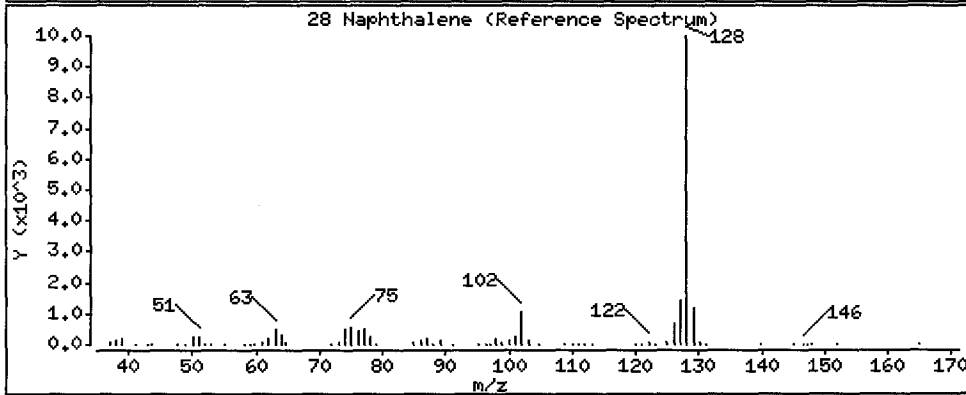
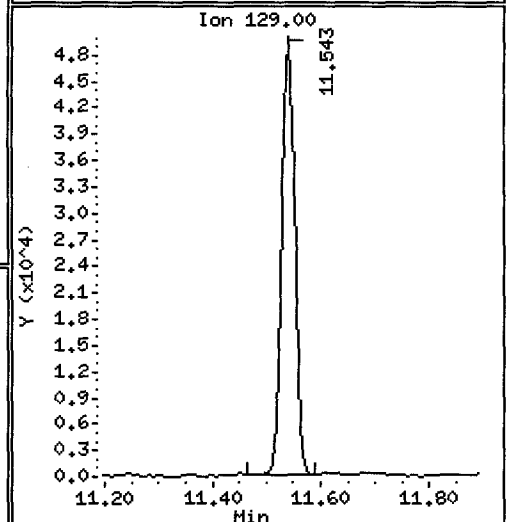
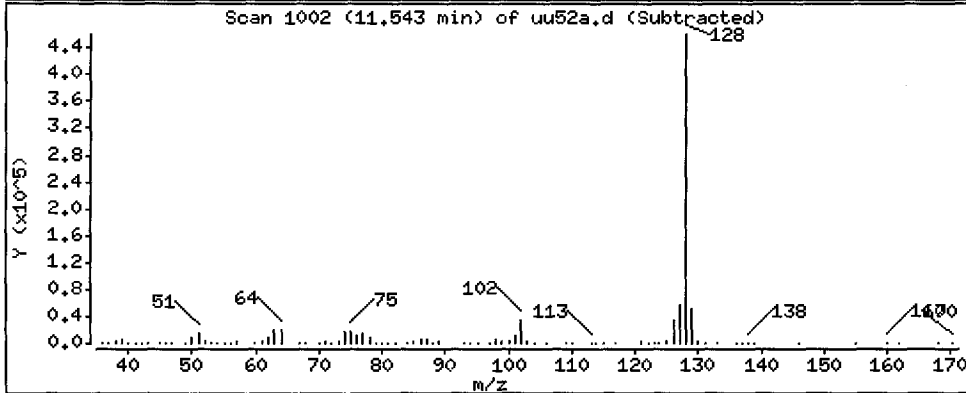
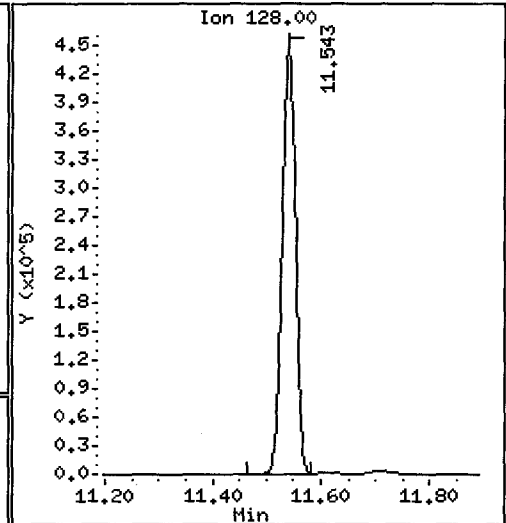
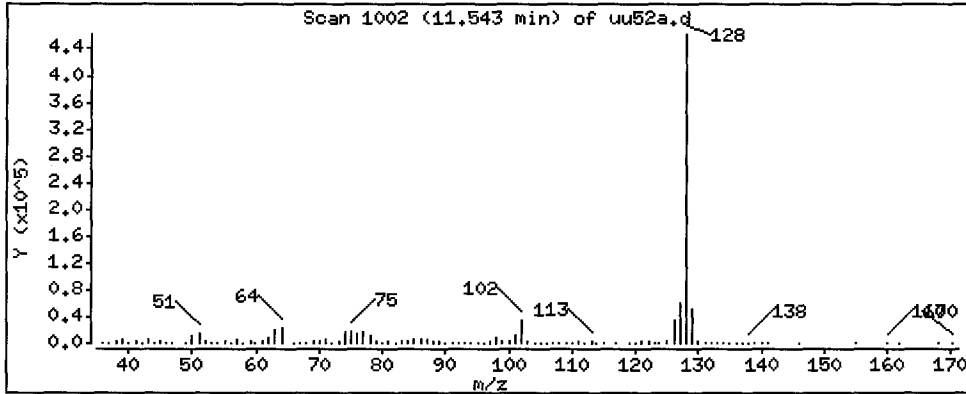
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 1093 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

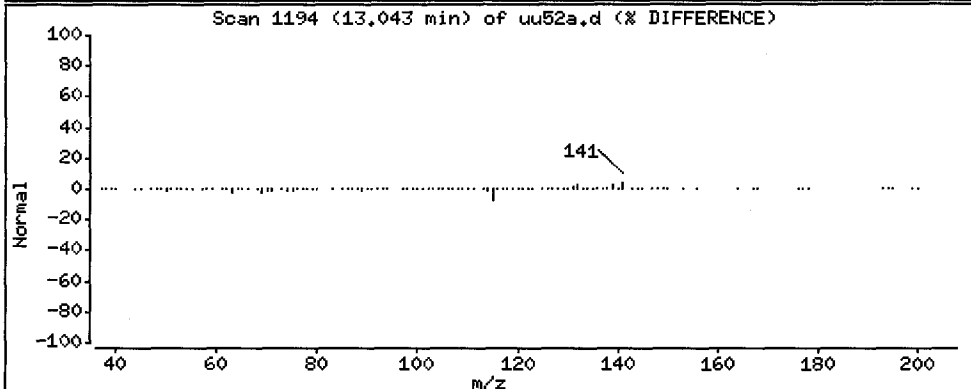
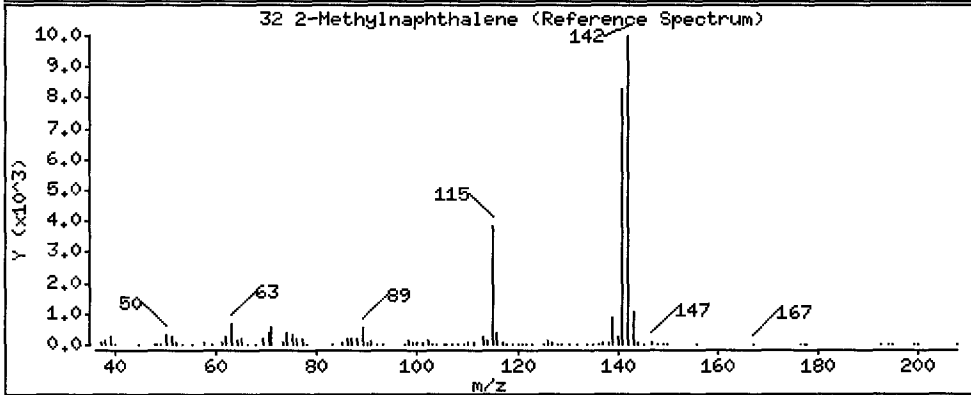
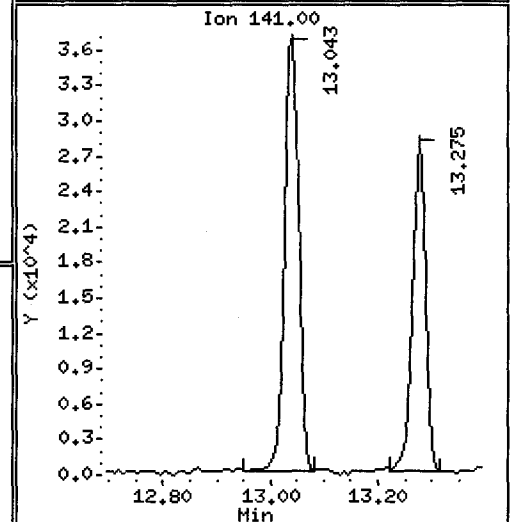
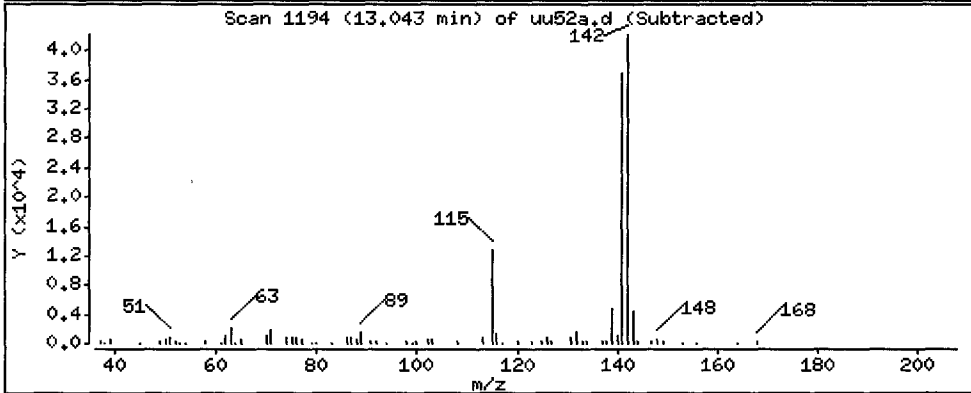
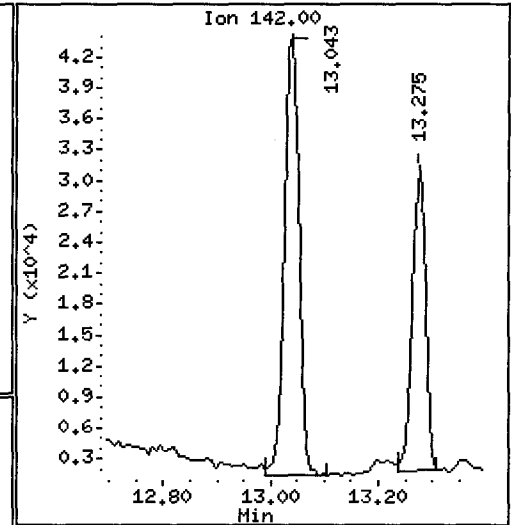
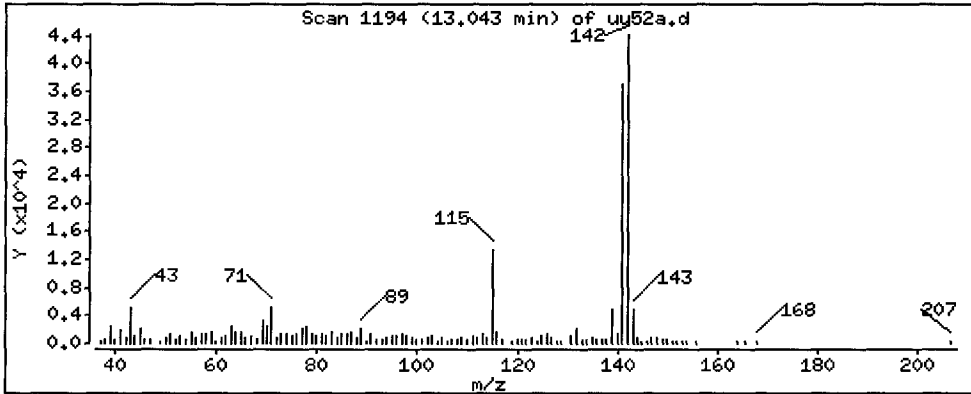
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 171.6 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

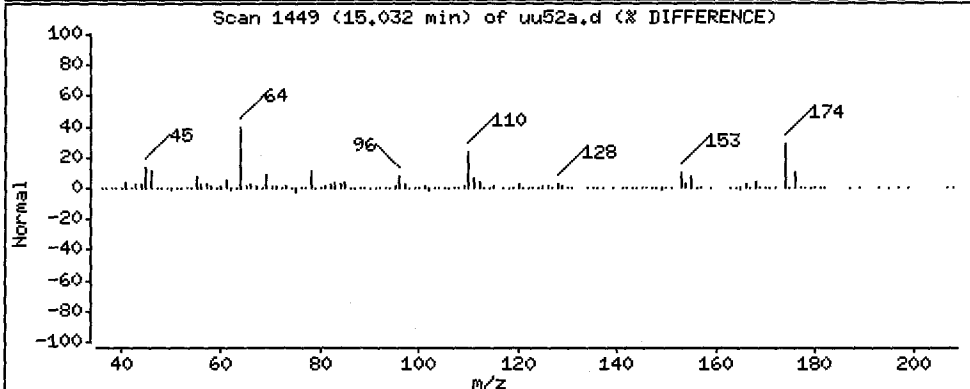
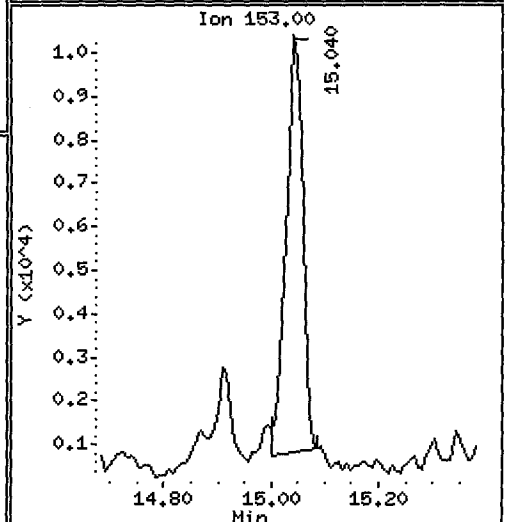
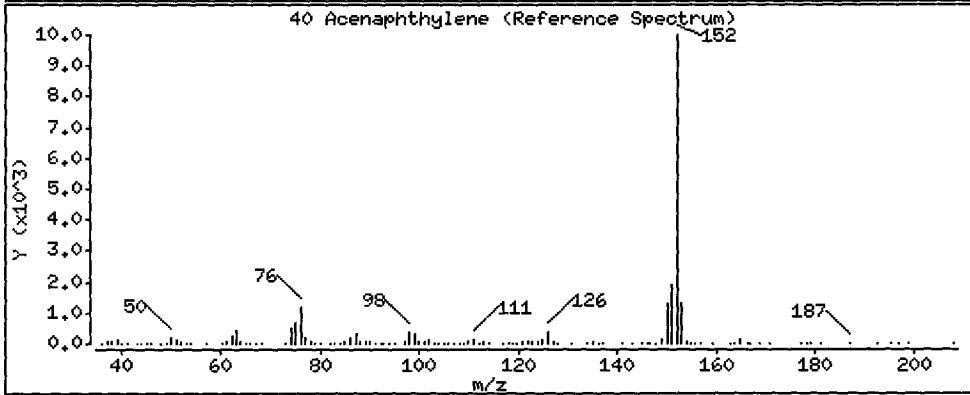
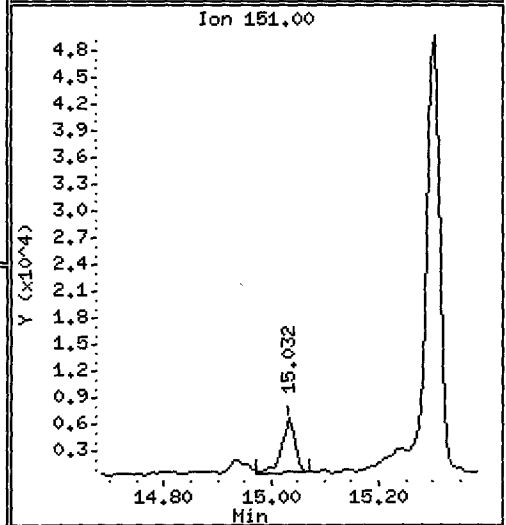
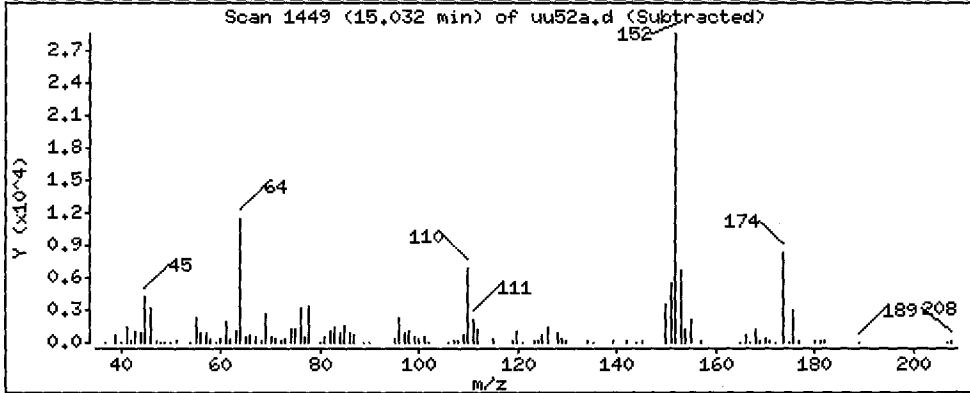
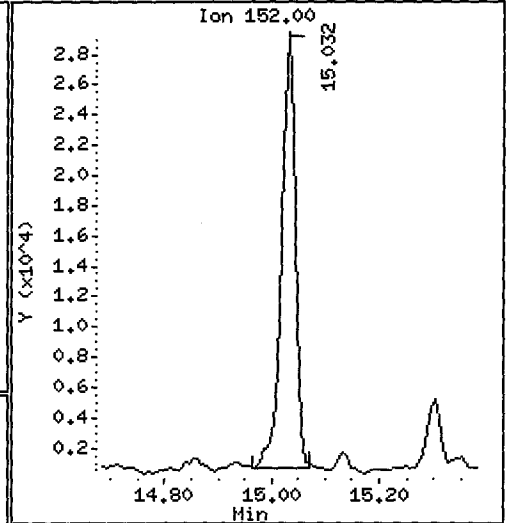
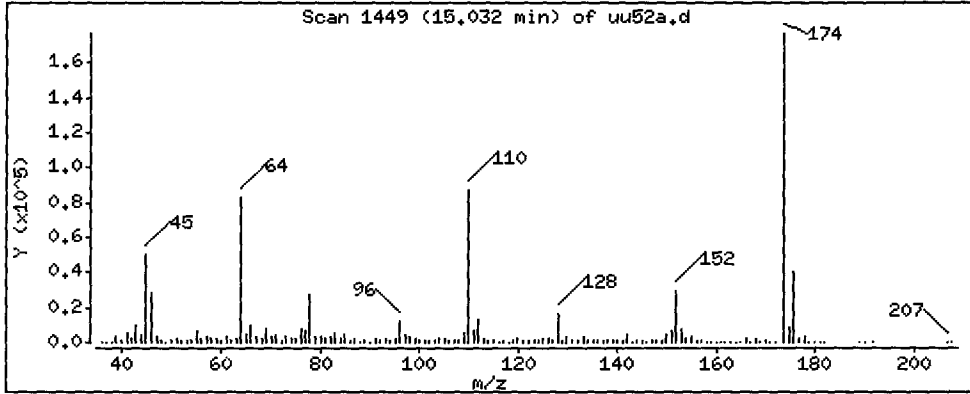
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 75.52 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

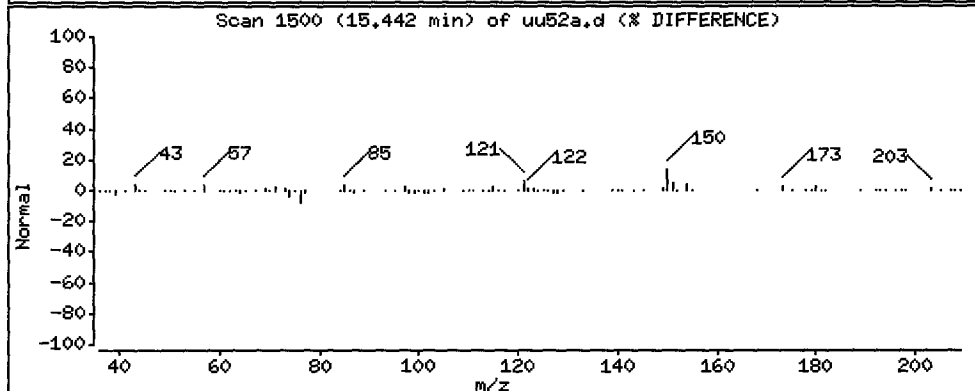
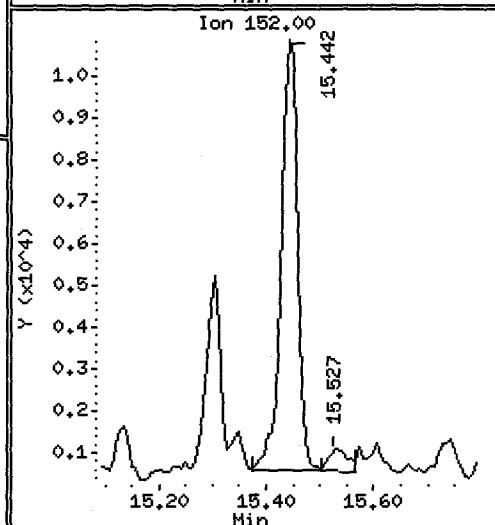
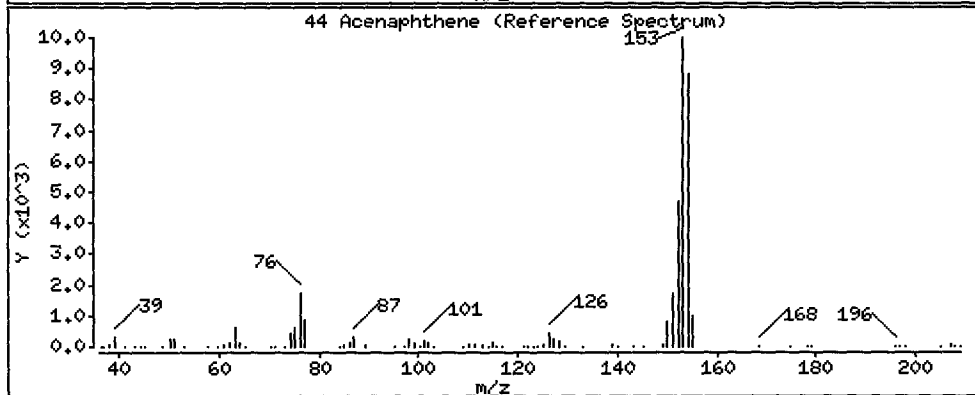
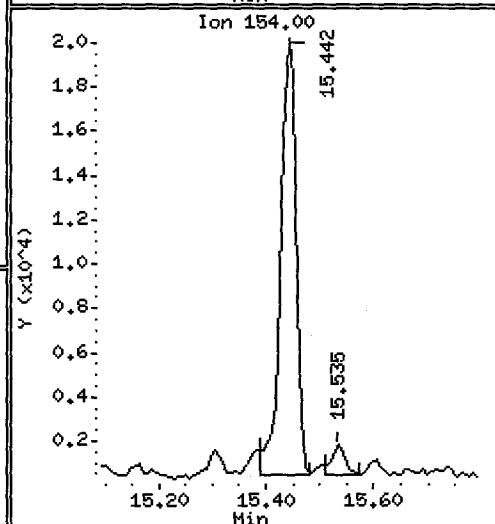
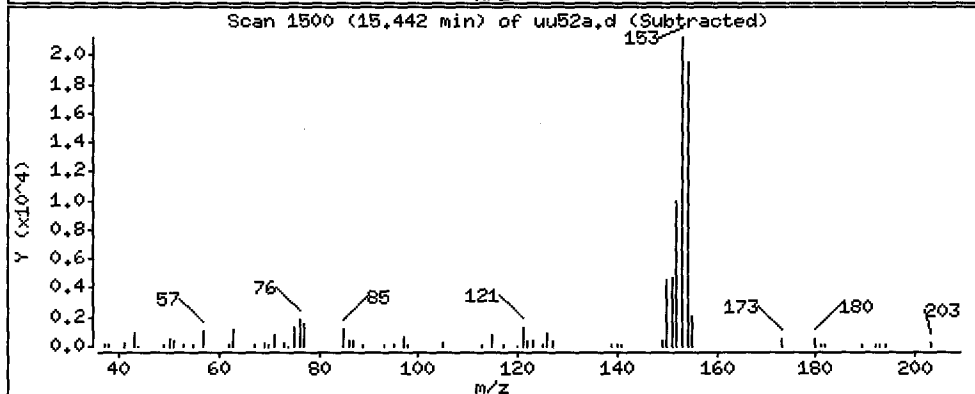
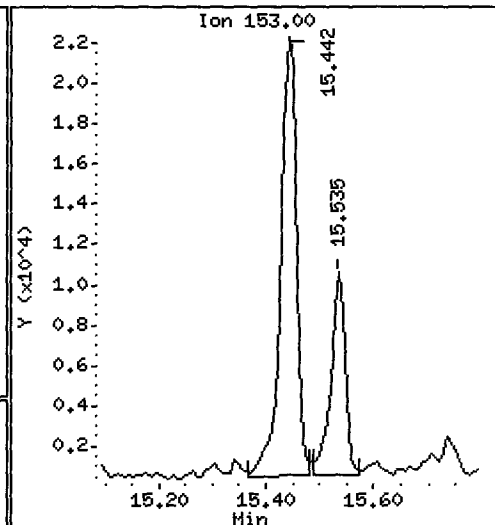
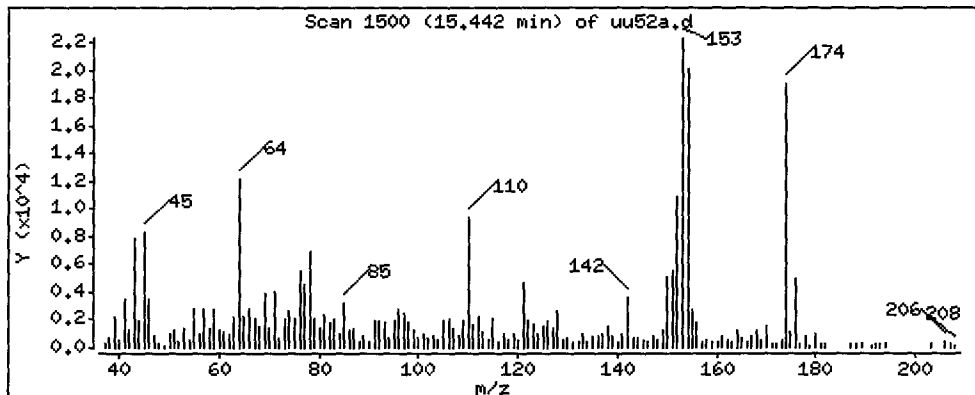
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 111.7 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

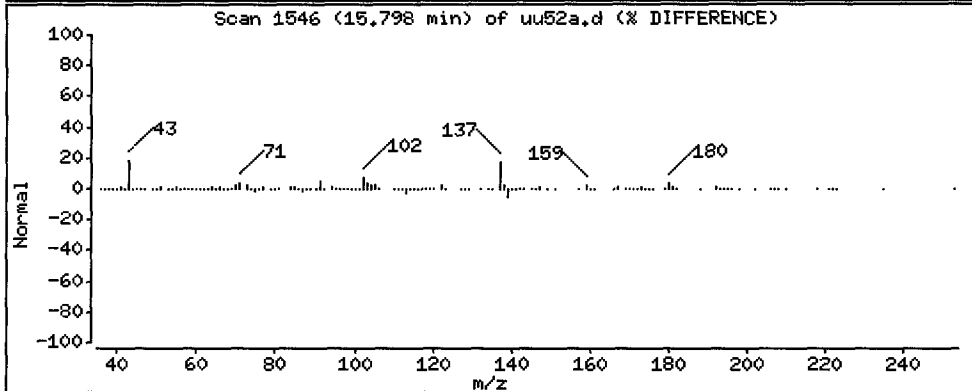
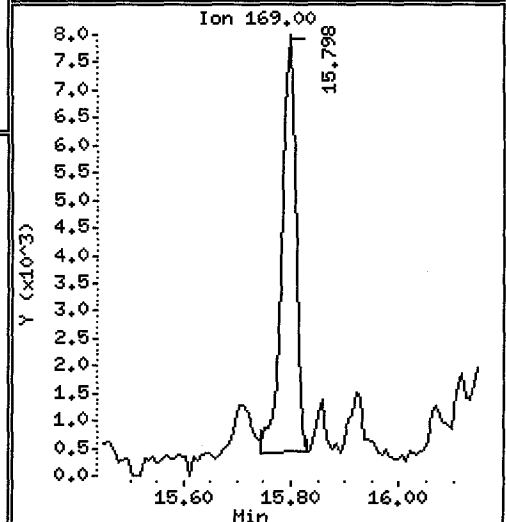
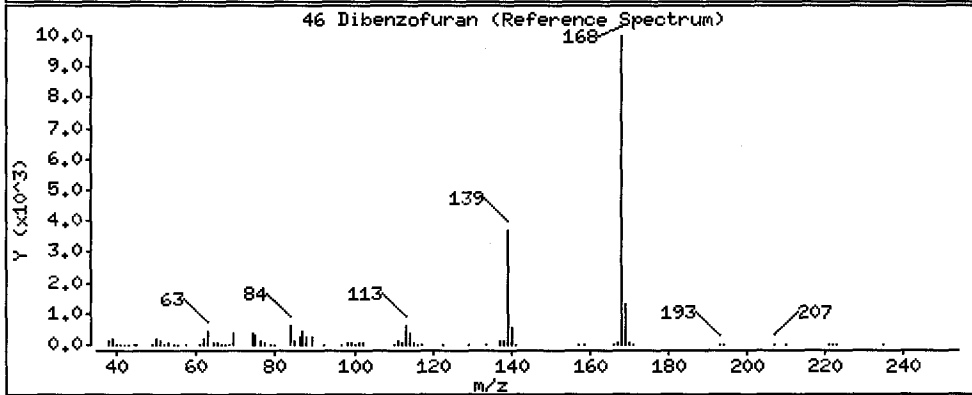
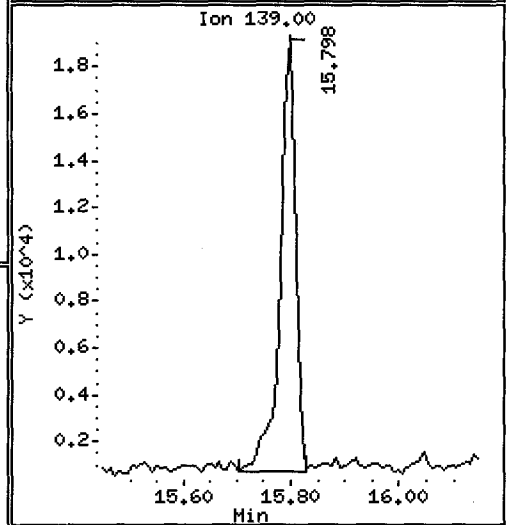
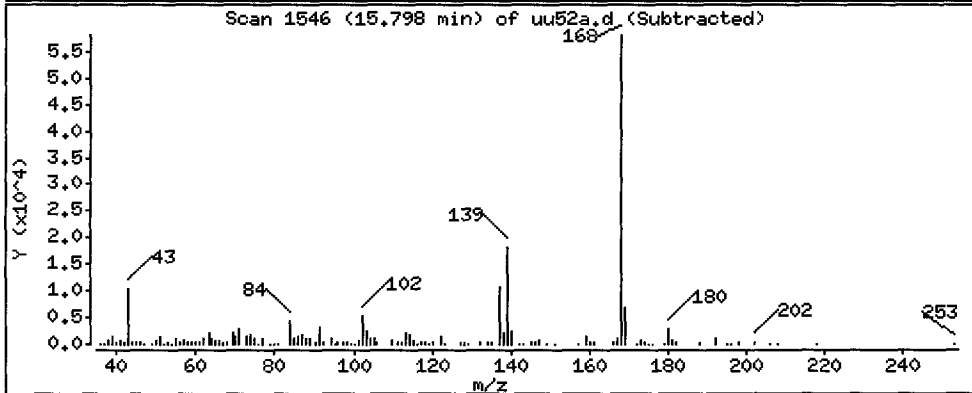
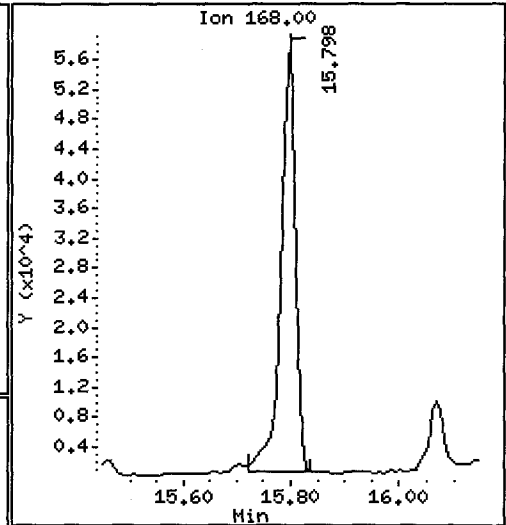
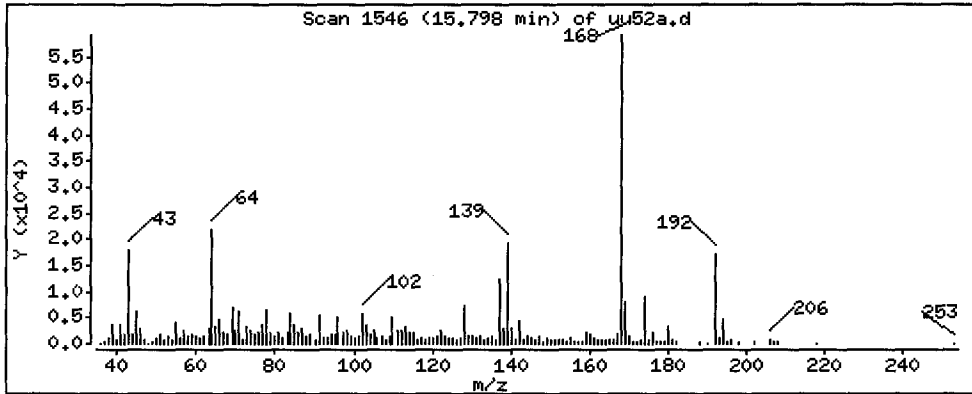
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 179.8 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

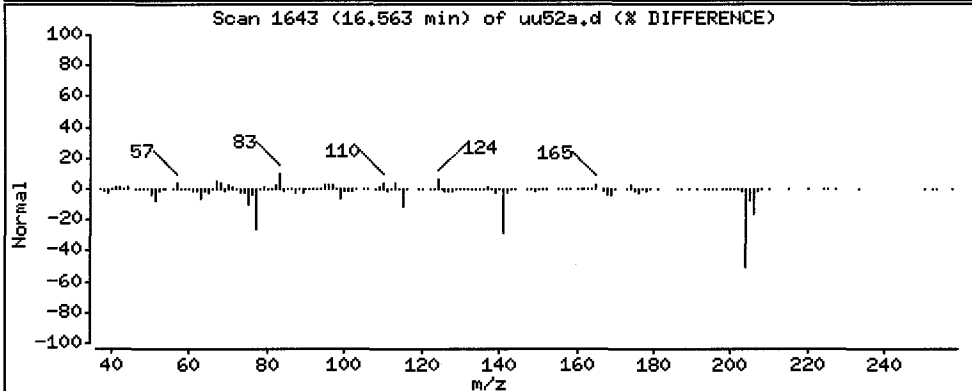
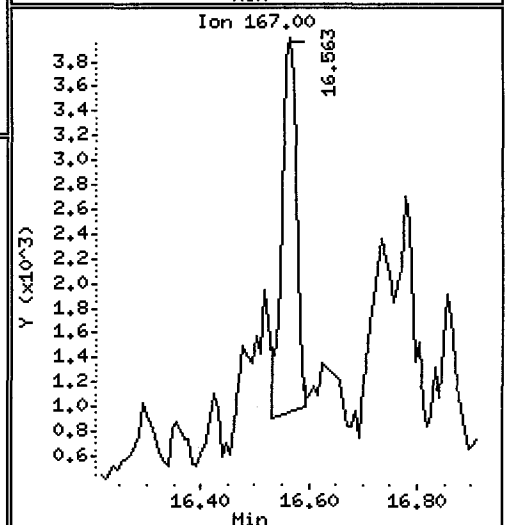
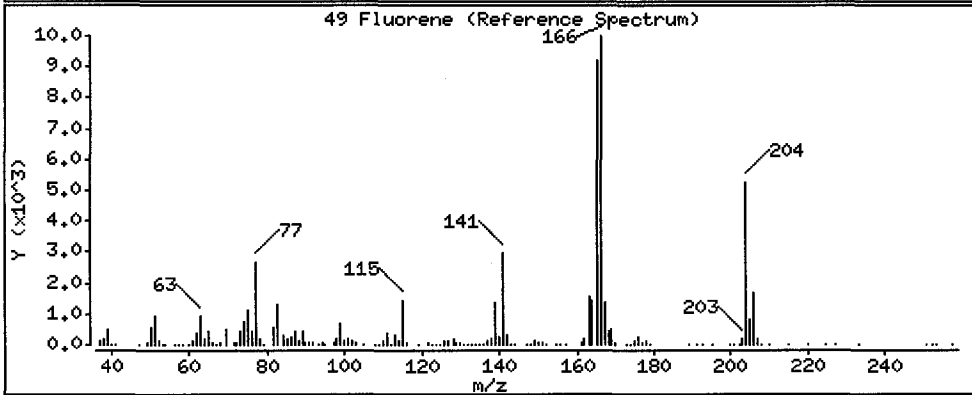
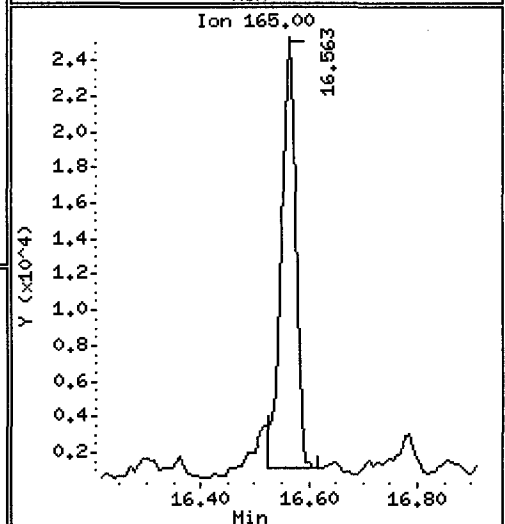
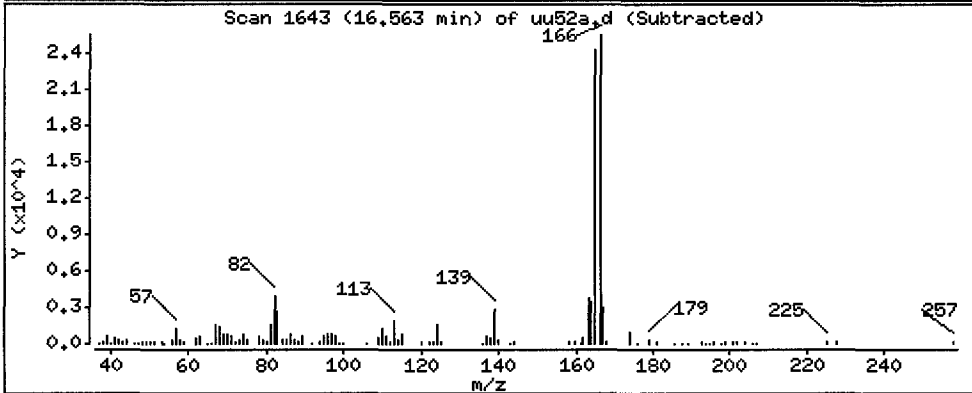
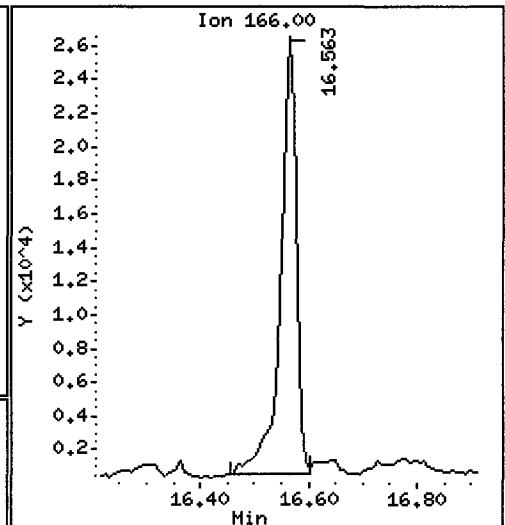
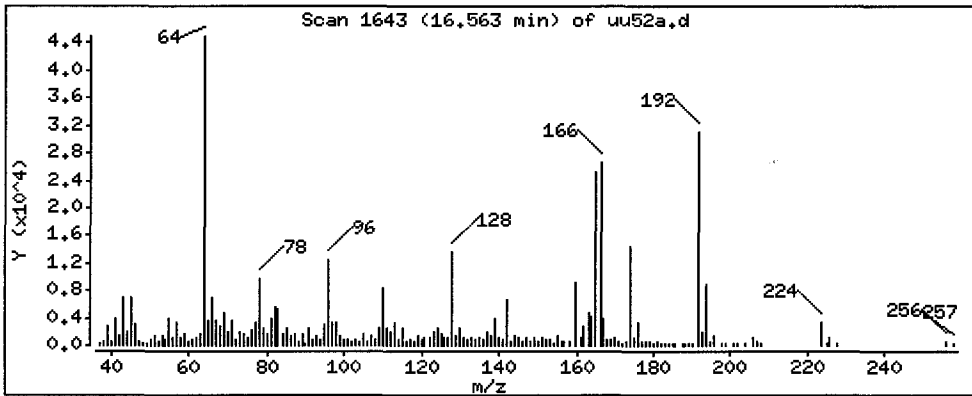
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 120.3 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

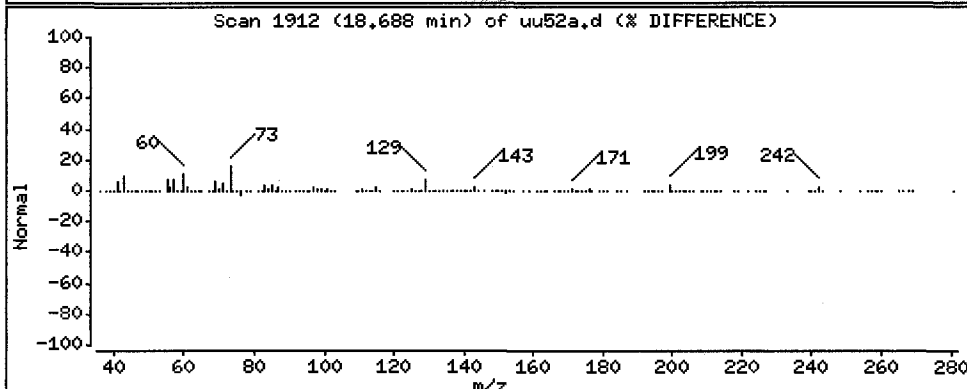
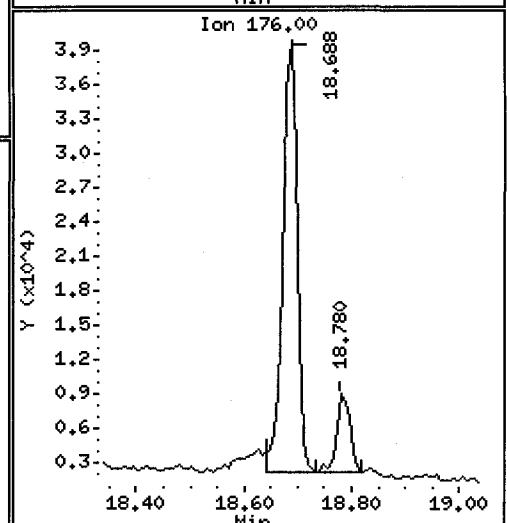
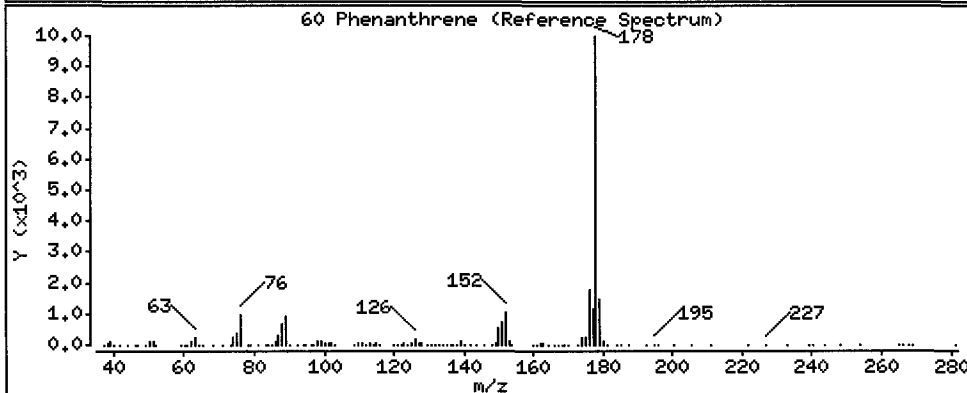
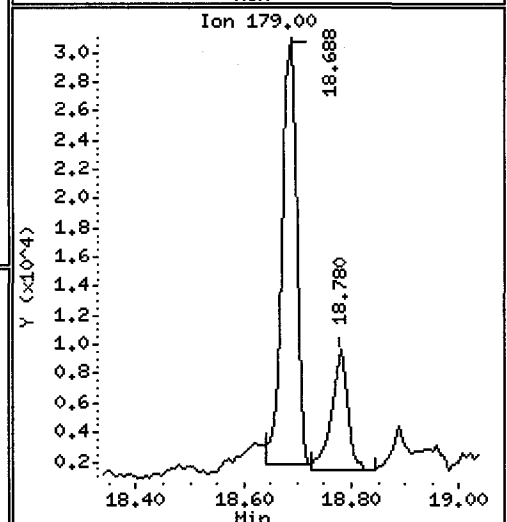
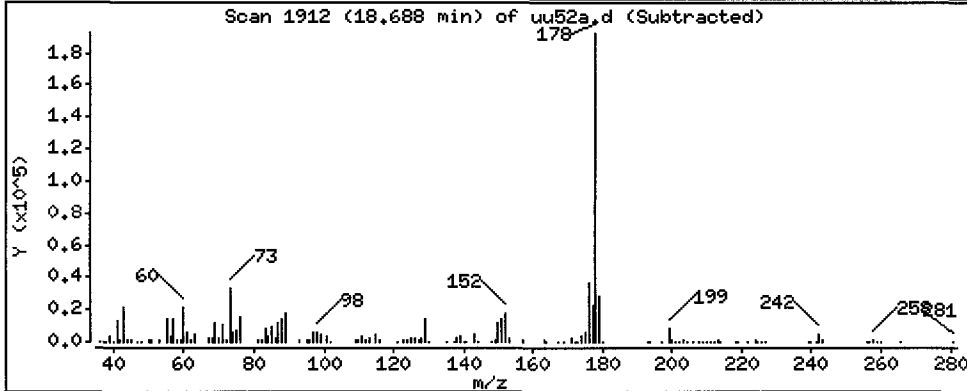
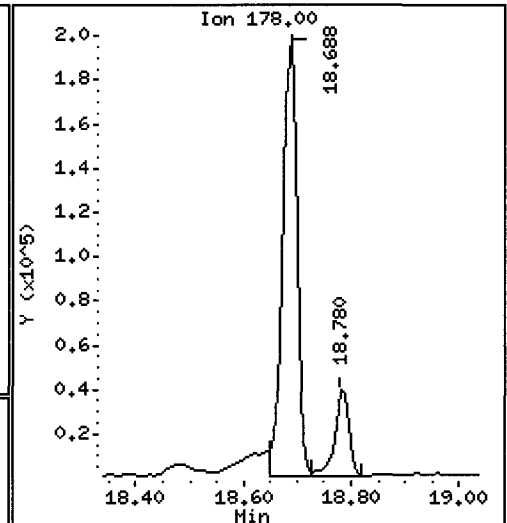
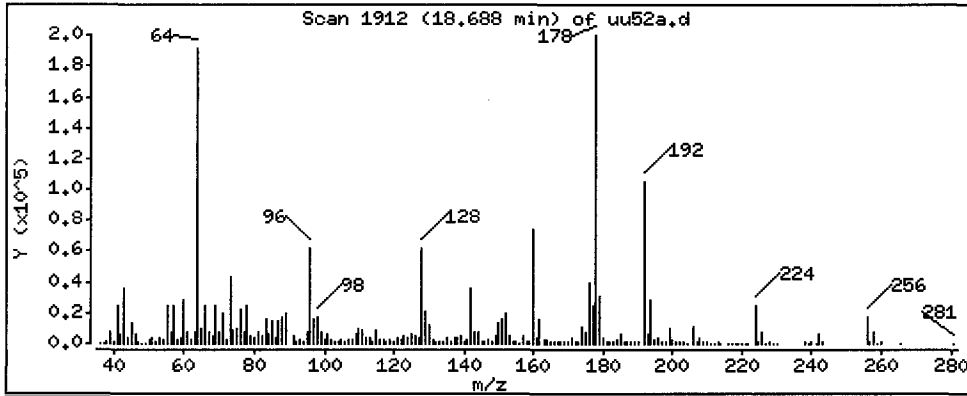
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 687.8 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

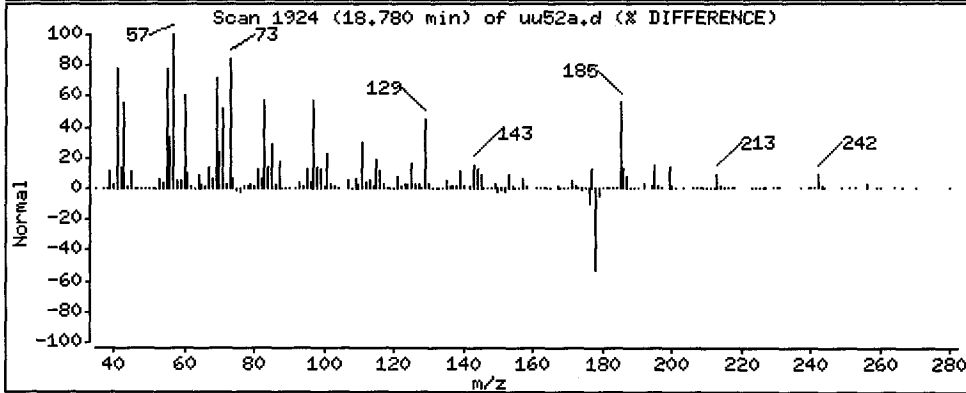
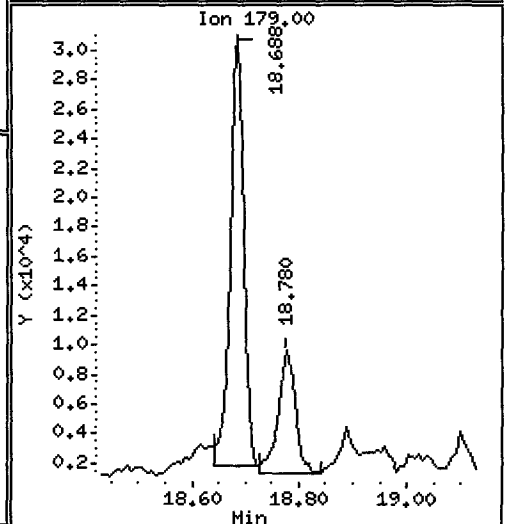
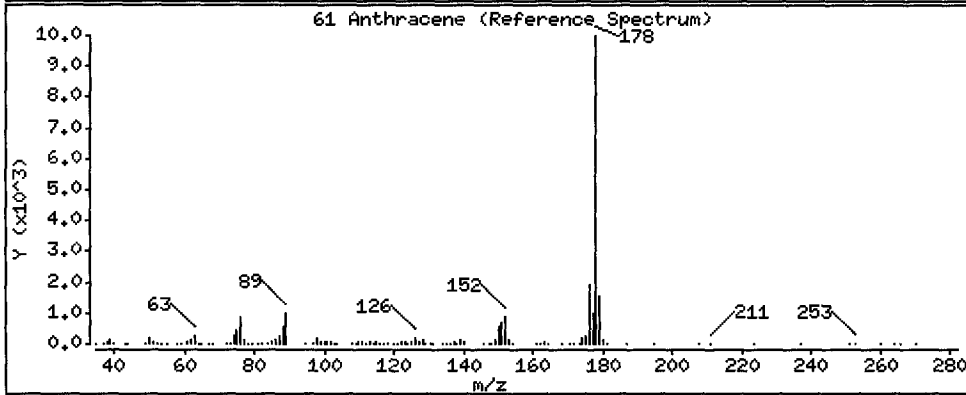
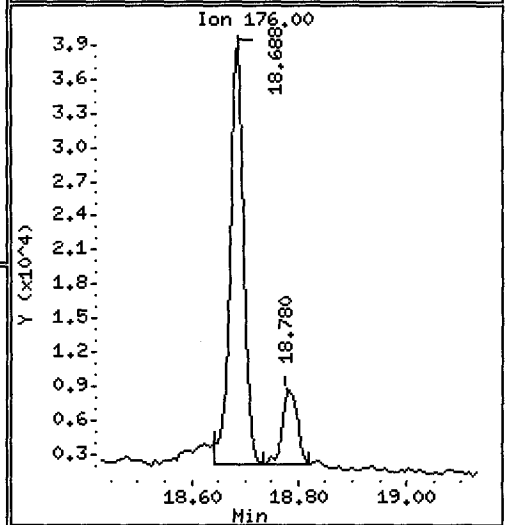
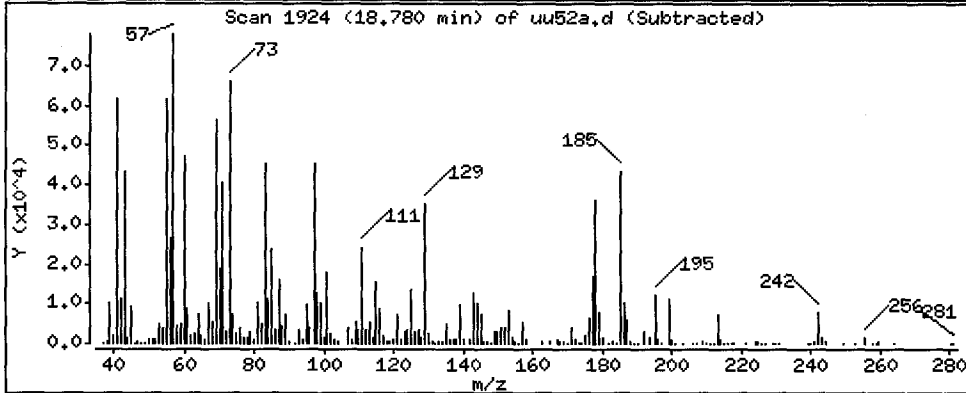
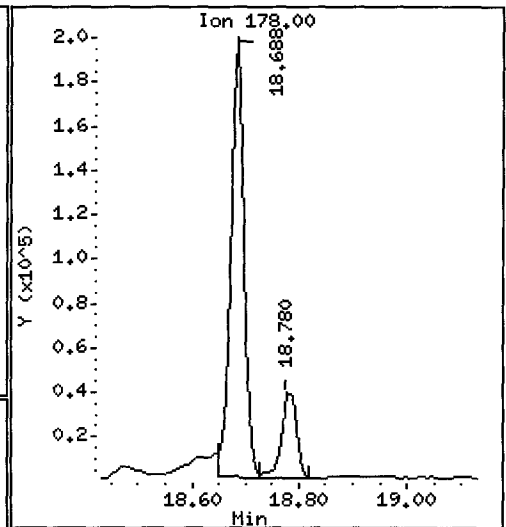
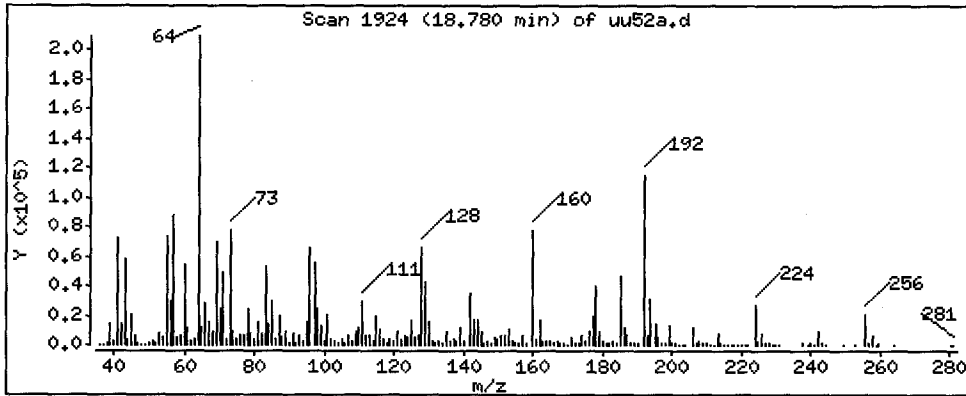
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 135.8 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

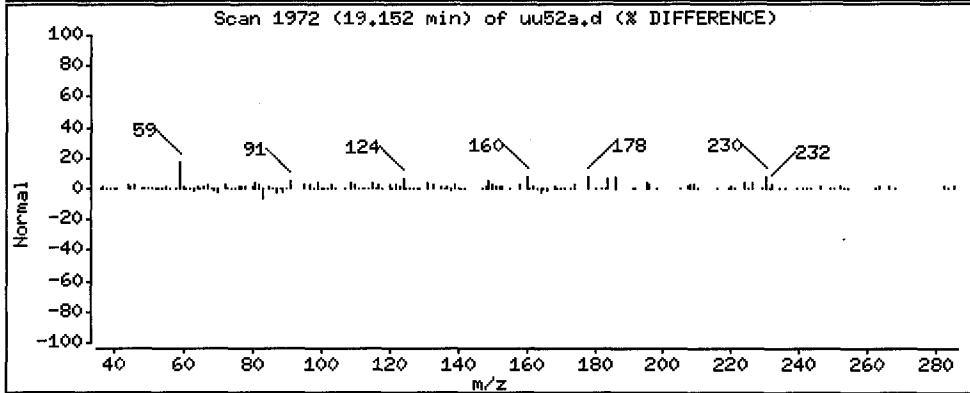
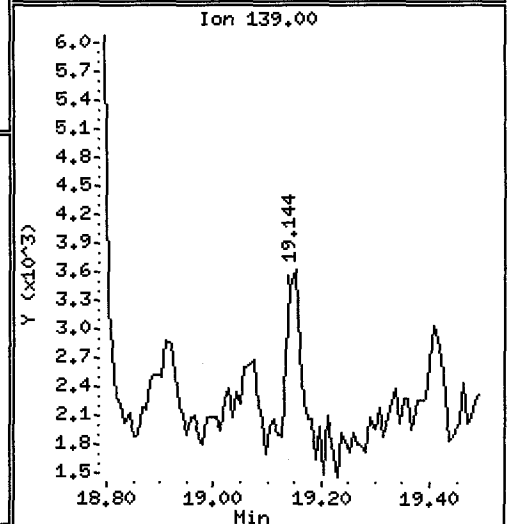
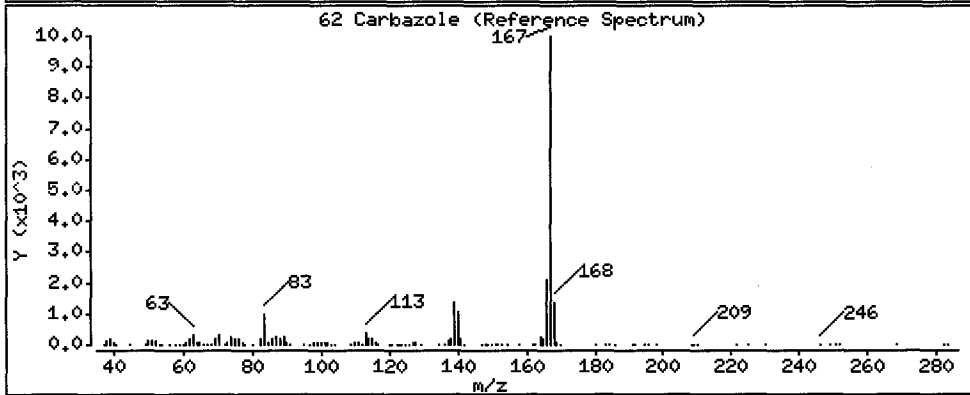
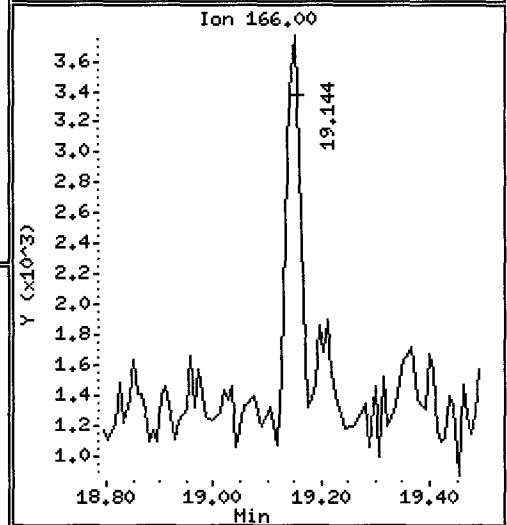
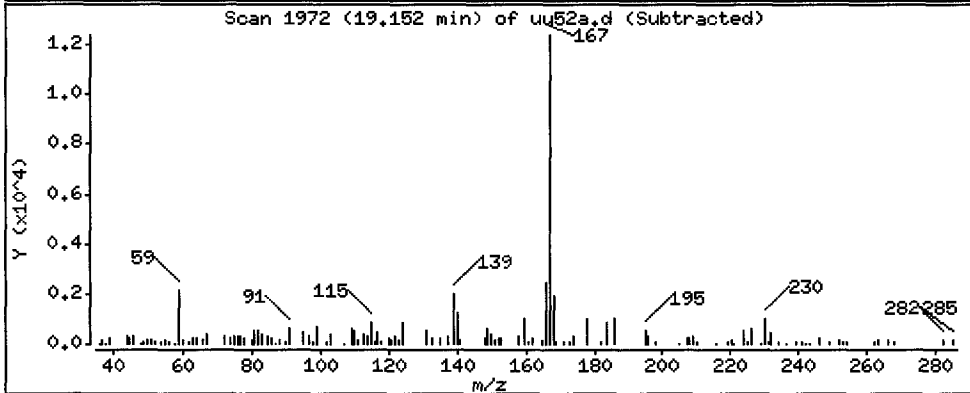
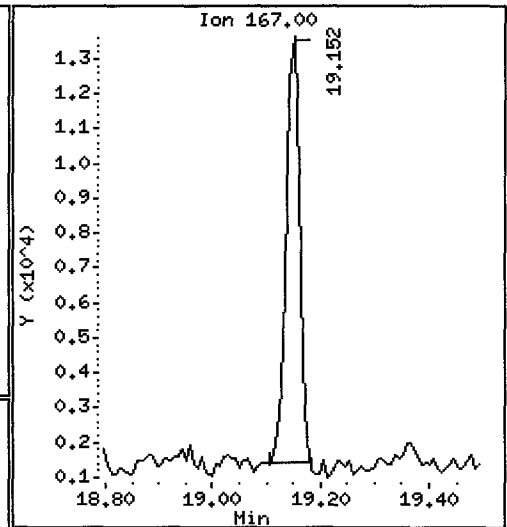
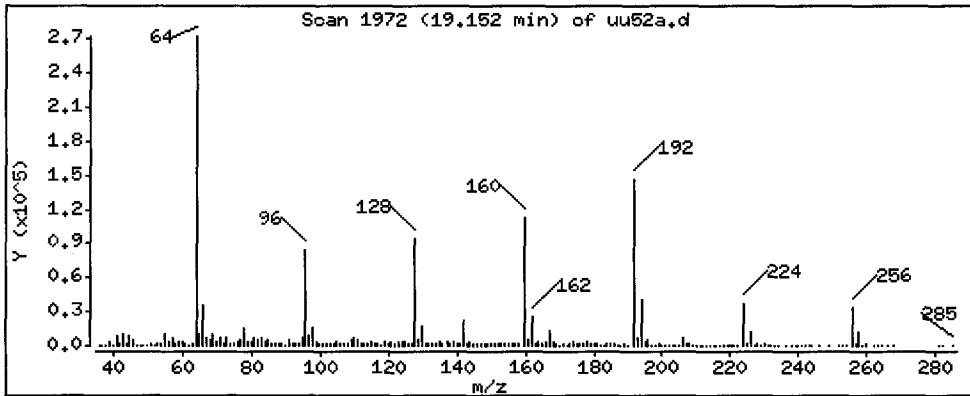
Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 40.93 ug/kg

JAL



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

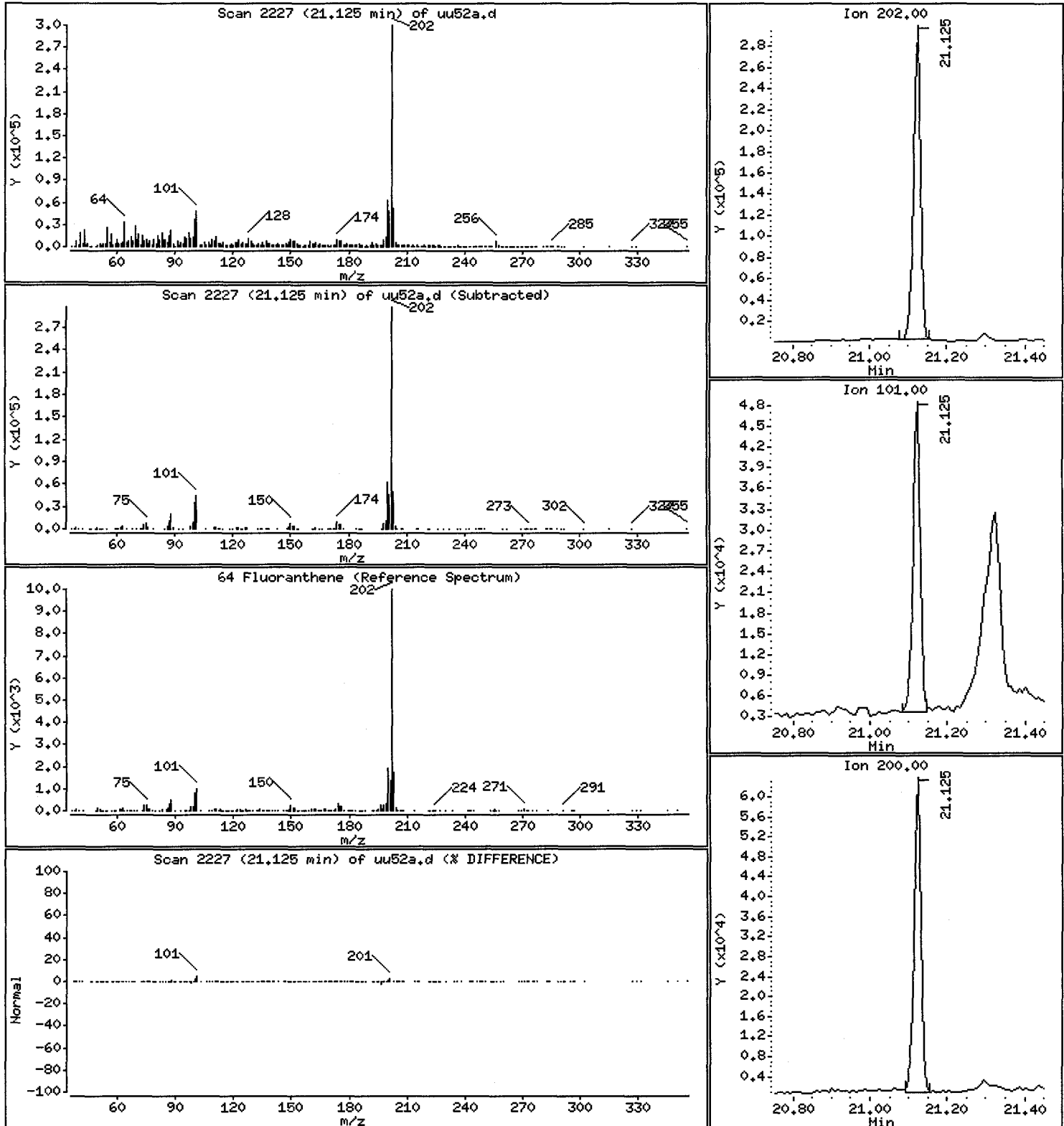
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 654.3 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

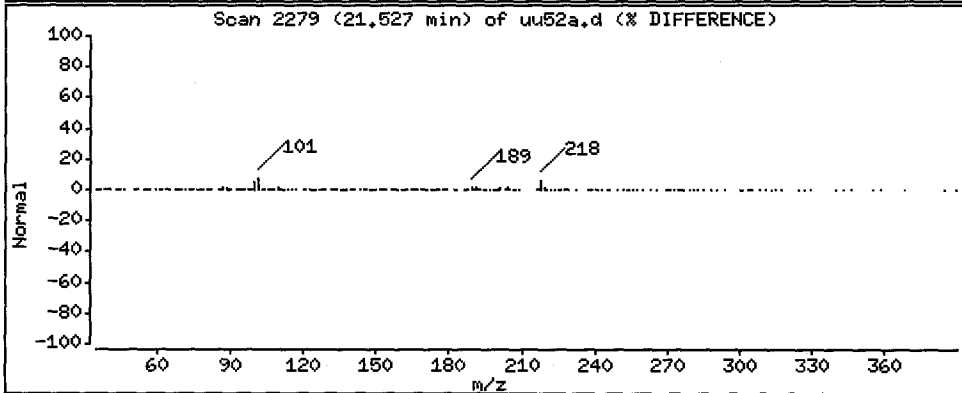
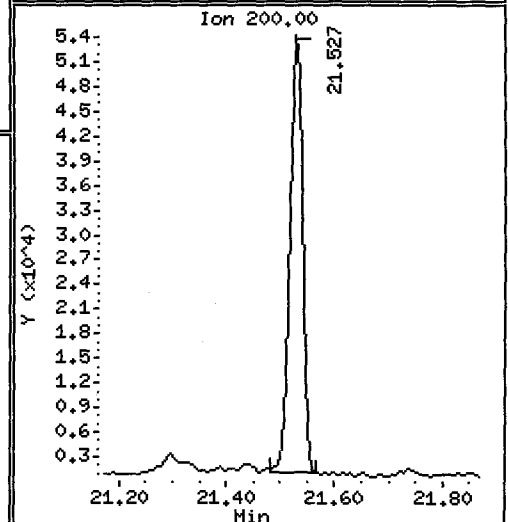
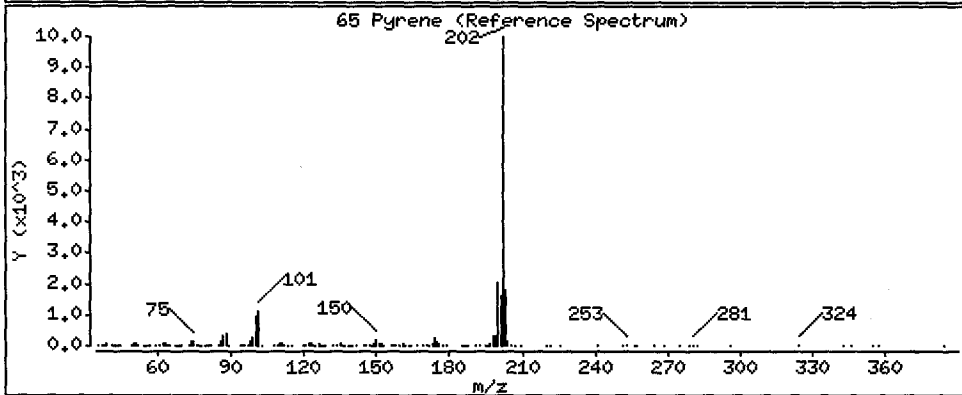
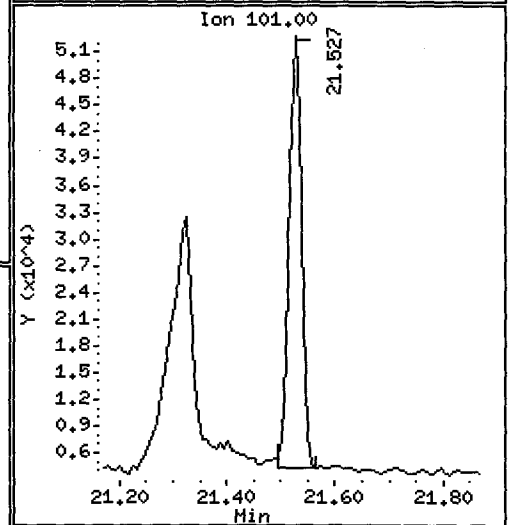
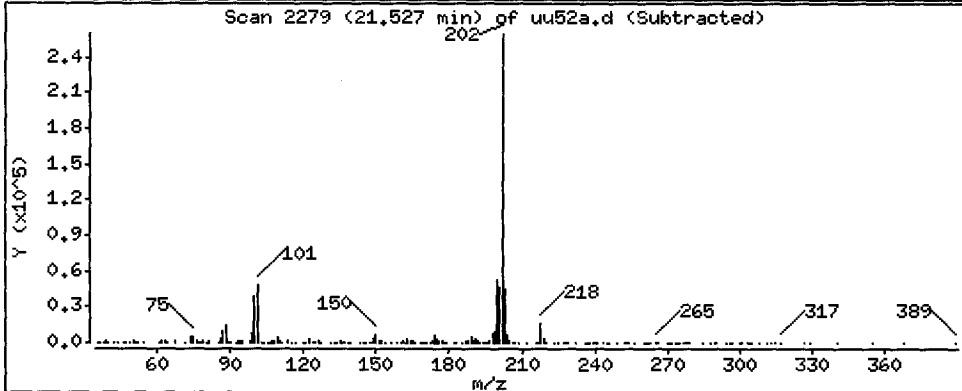
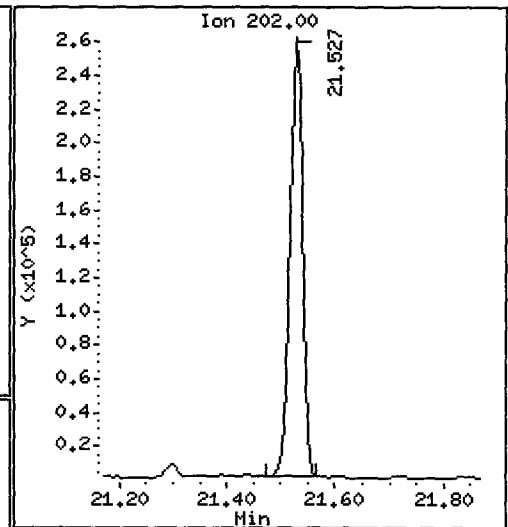
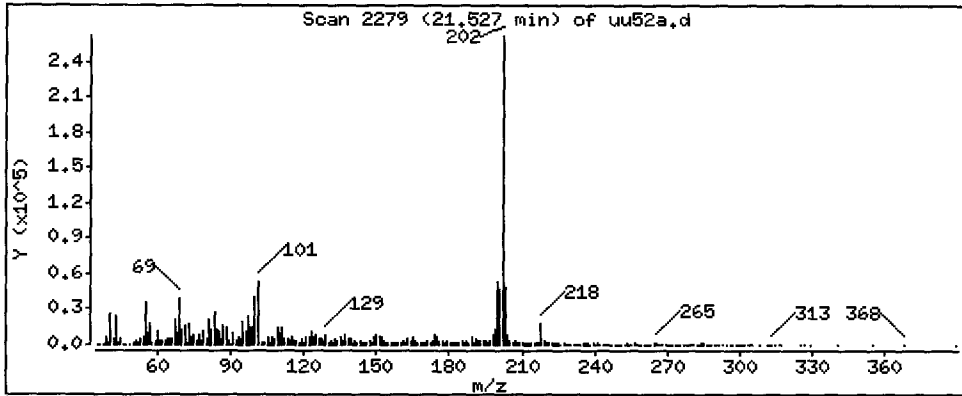
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 580.1 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

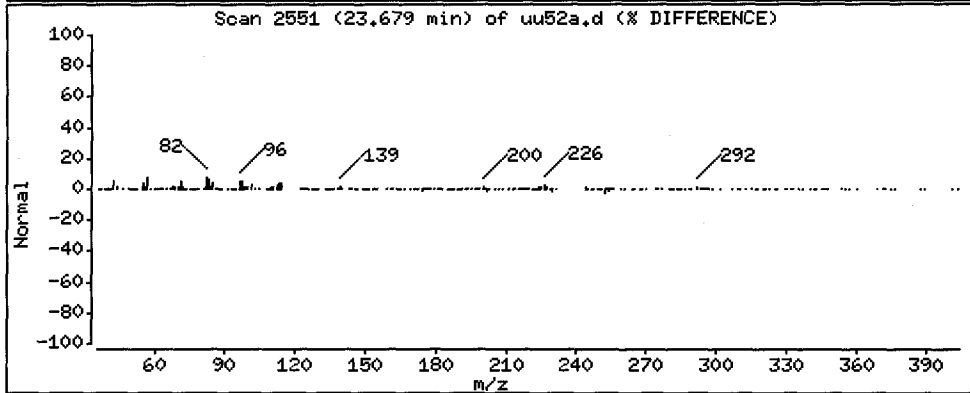
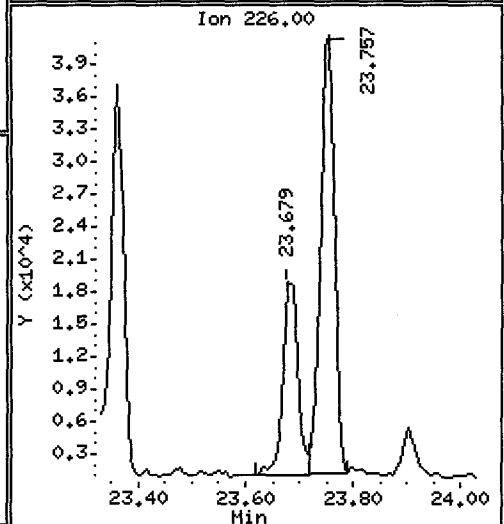
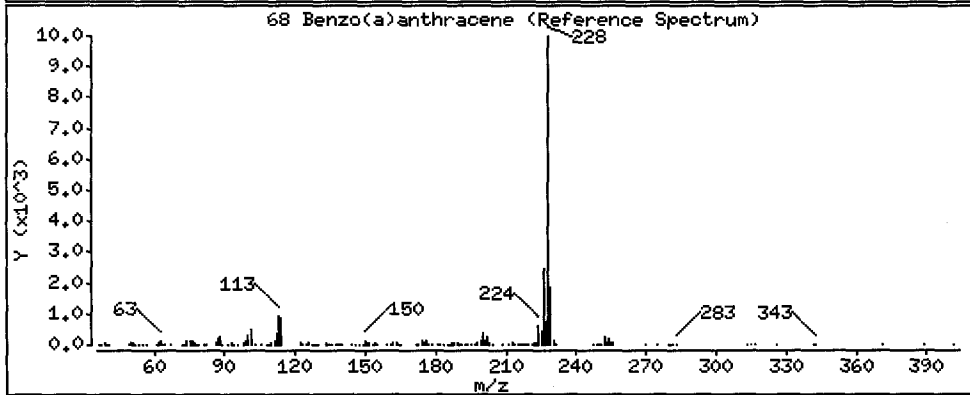
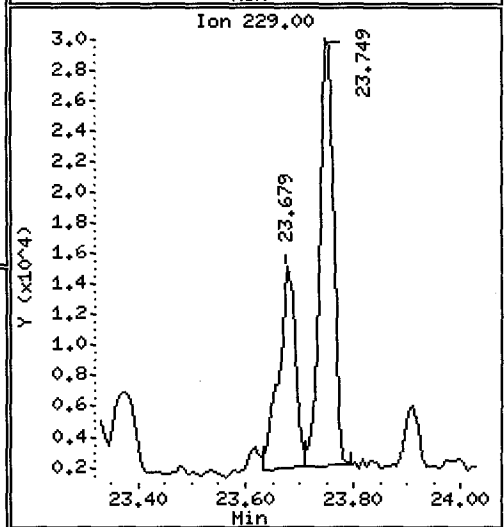
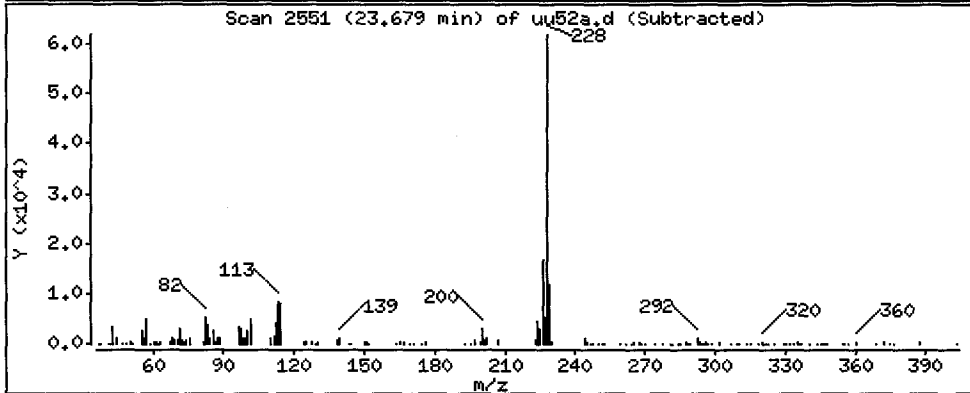
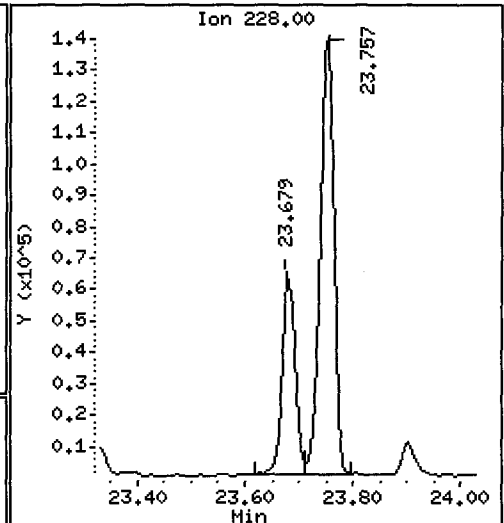
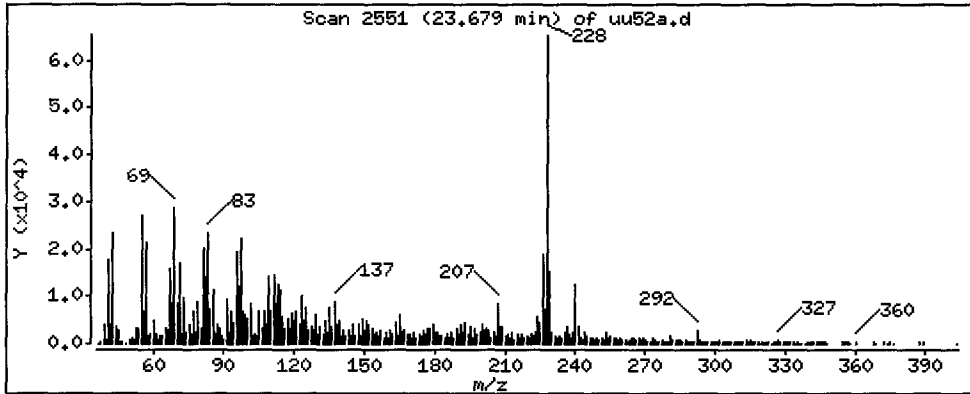
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 158.4 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

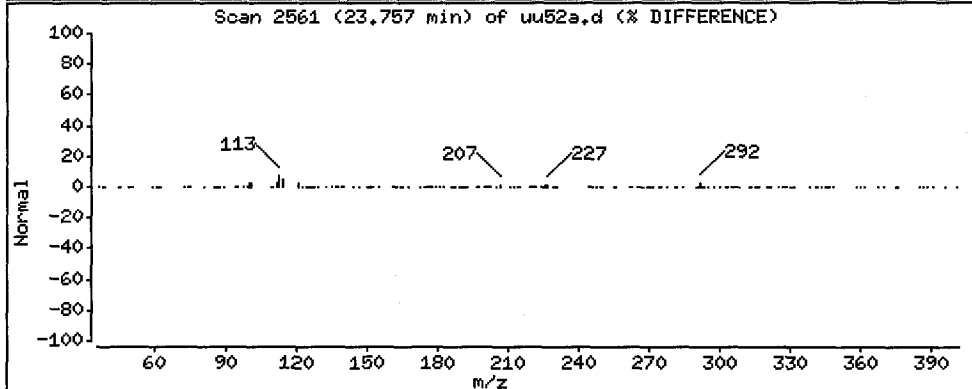
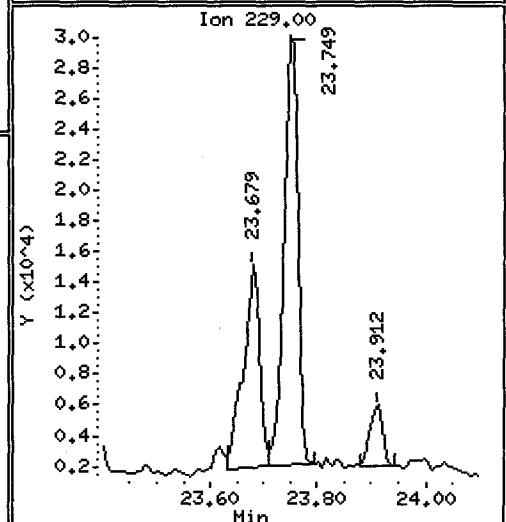
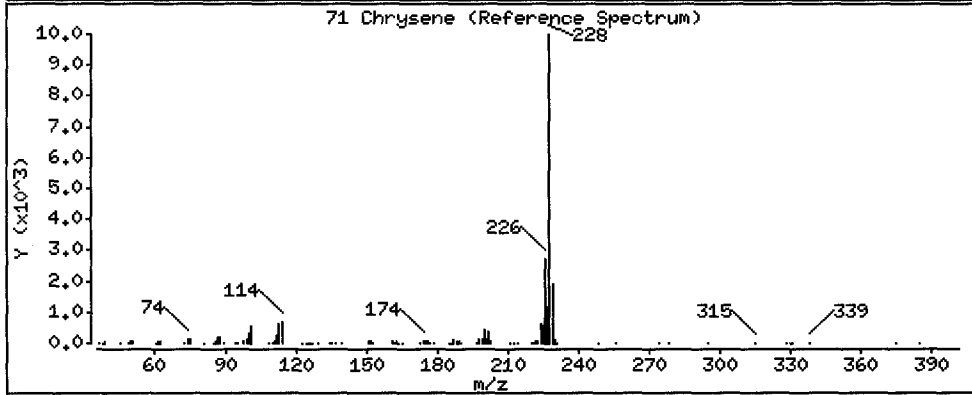
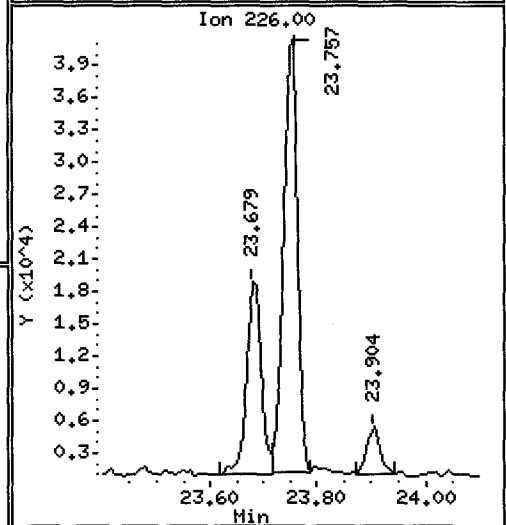
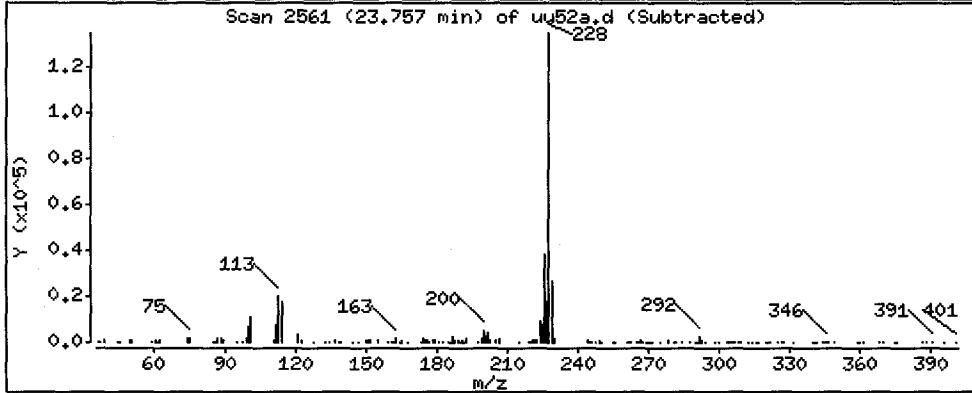
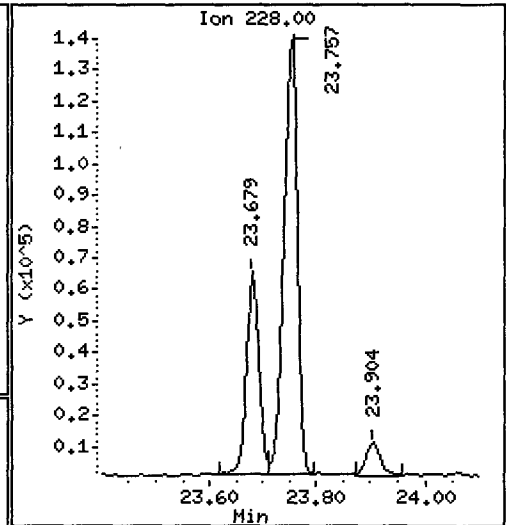
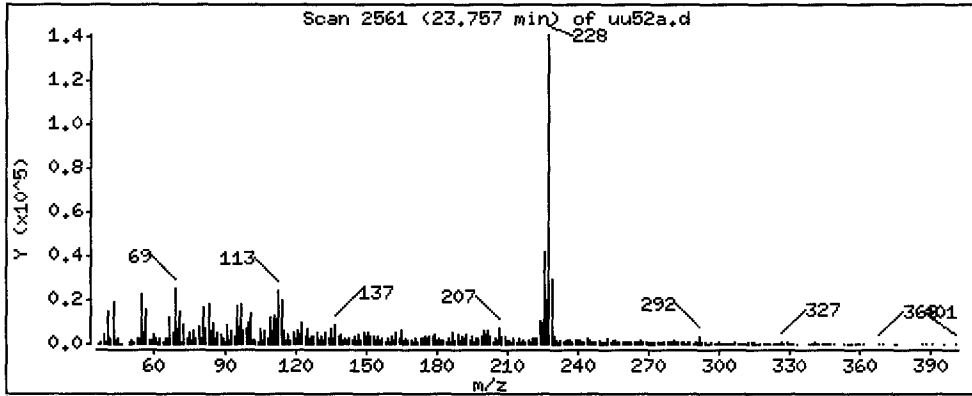
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 424.5 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

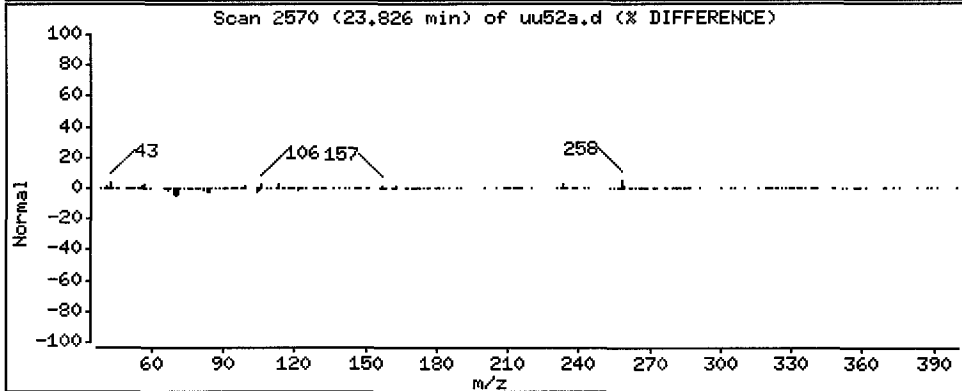
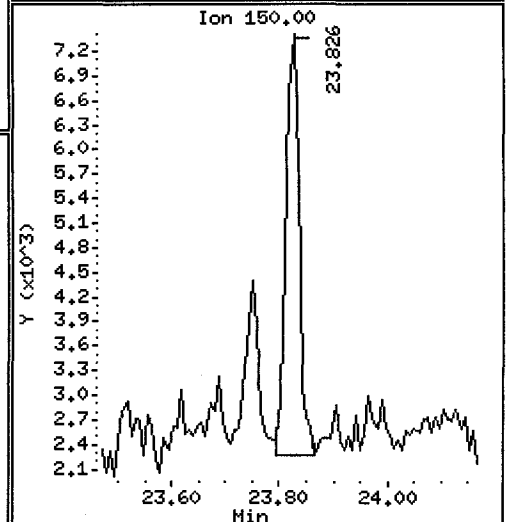
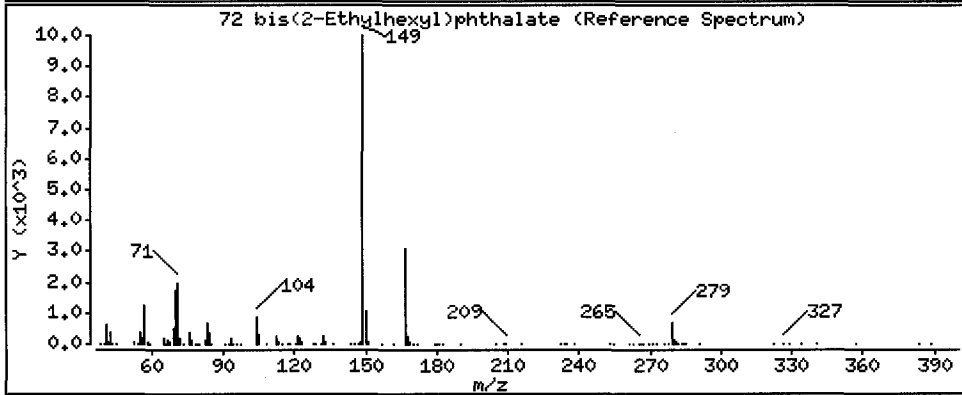
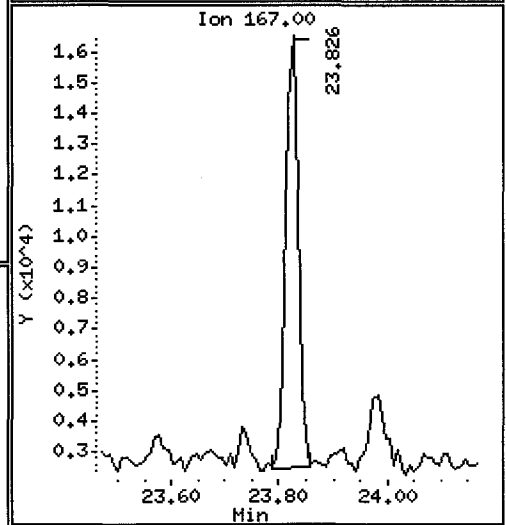
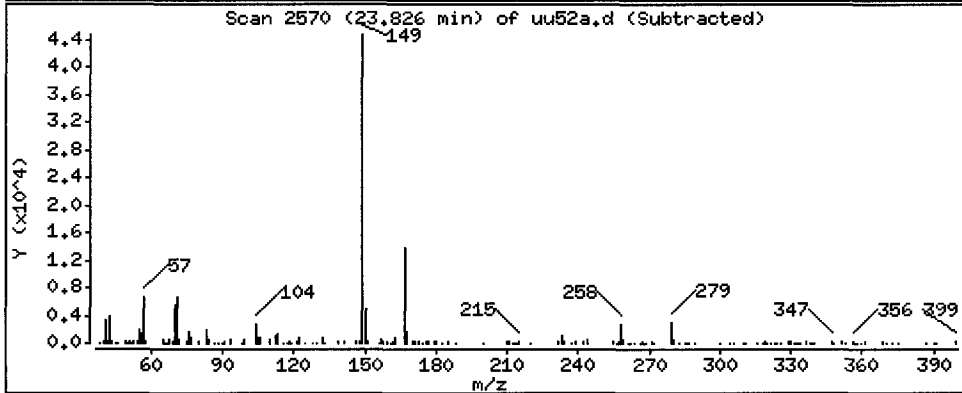
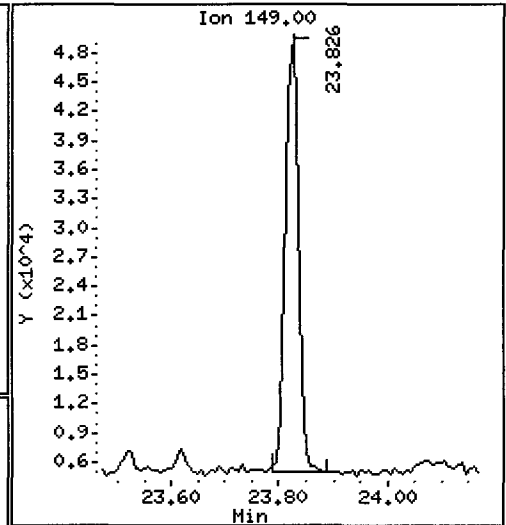
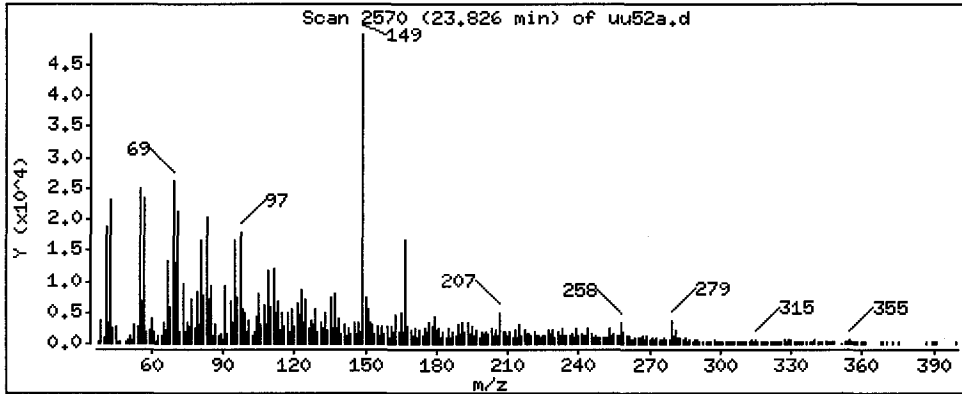
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

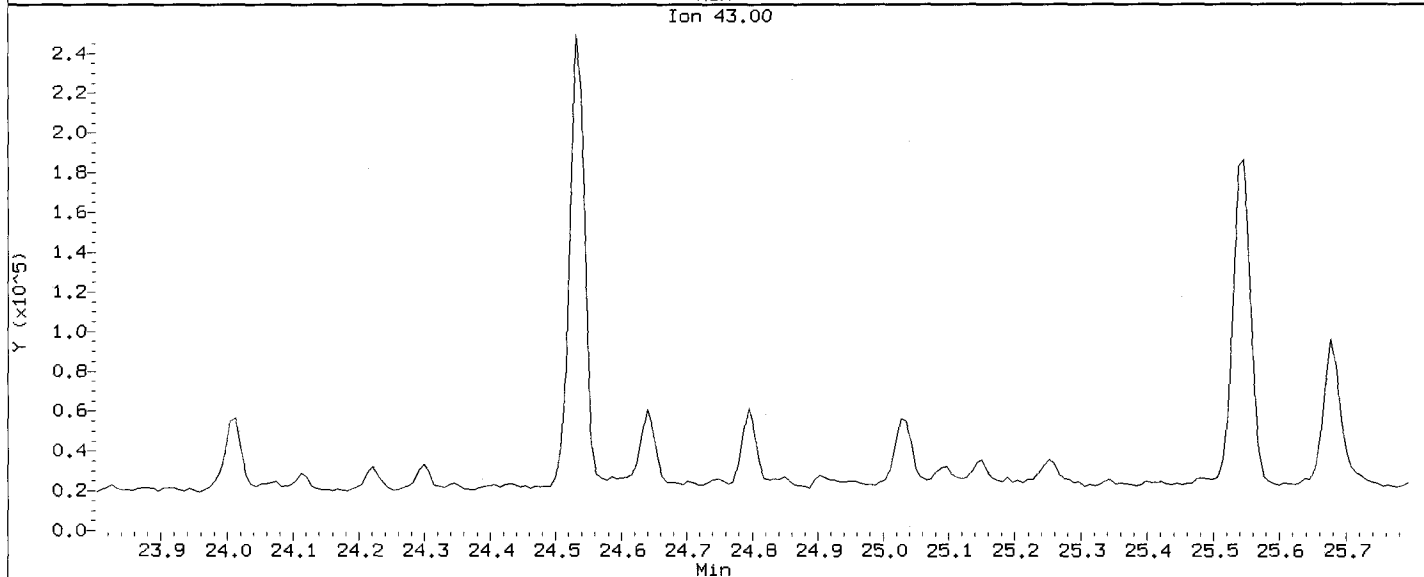
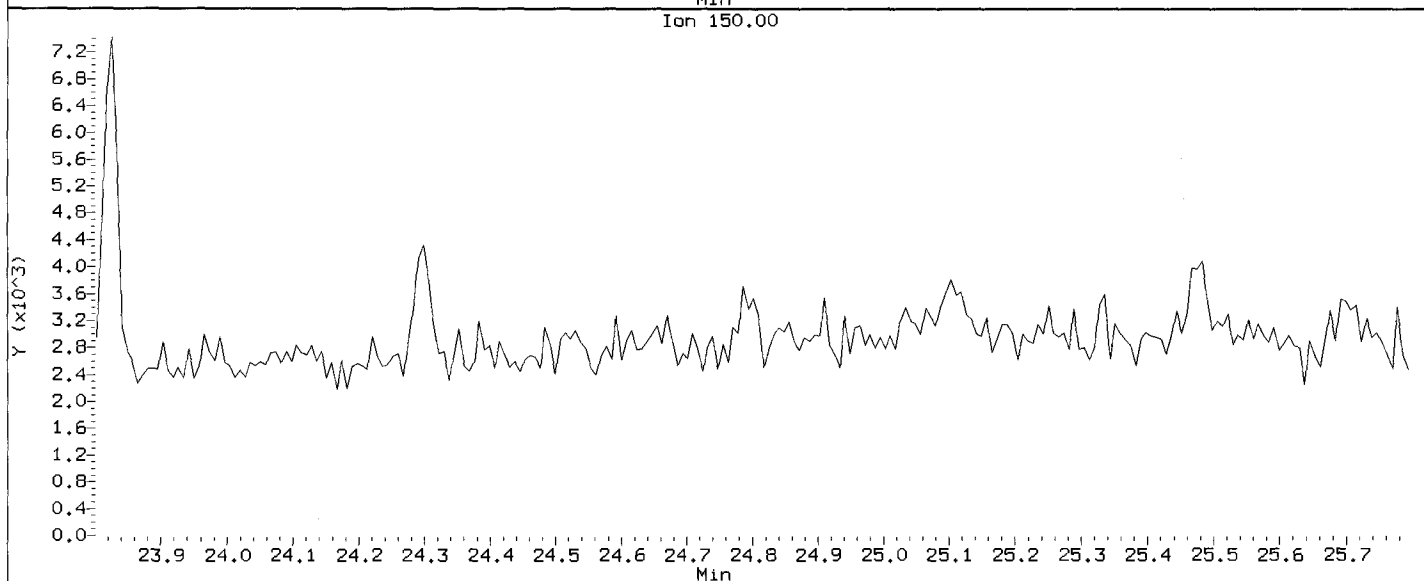
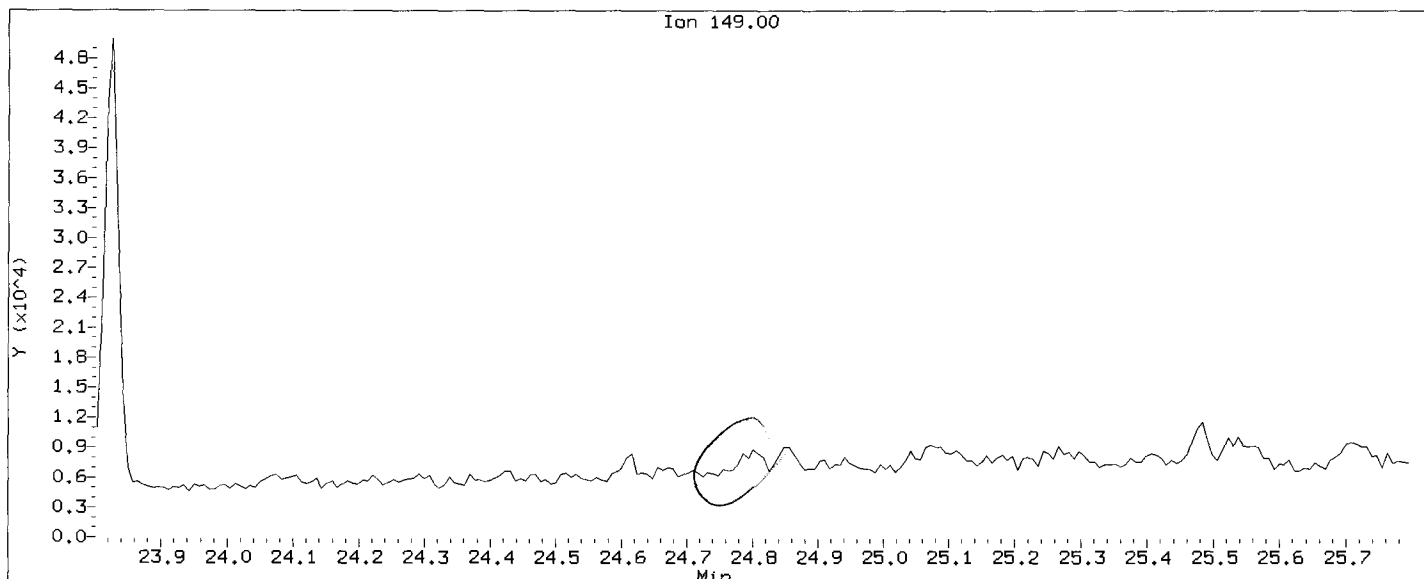
72 bis(2-Ethylhexyl)phthalate

Concentration: 141.3 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52a.d
Injection Date: 26-MAY-2012 17:11
Instrument: nt10.i
Client Sample ID: MS001-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



UU52:00716

Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

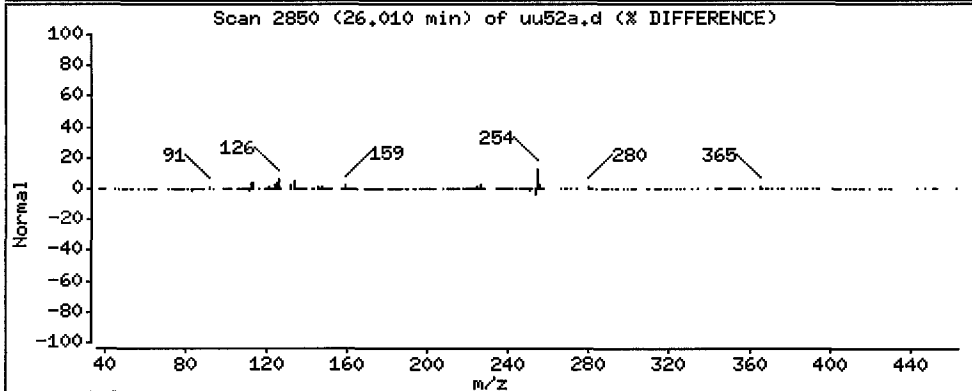
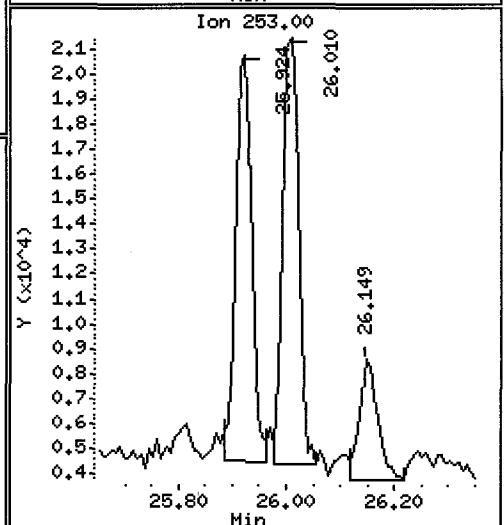
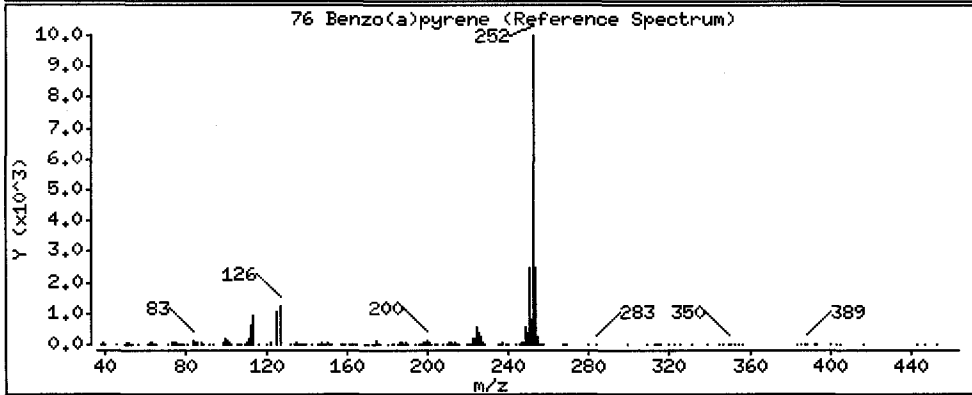
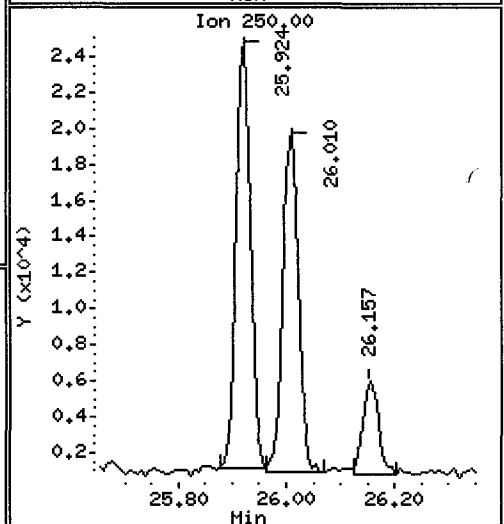
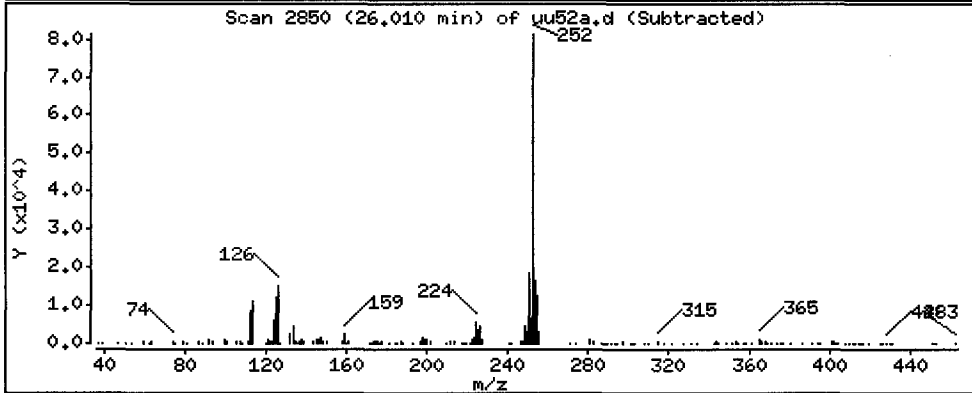
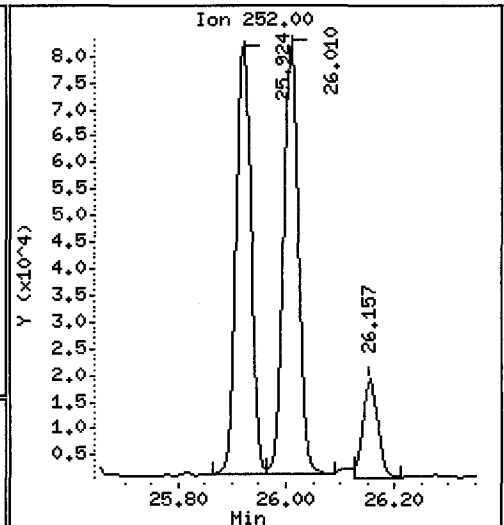
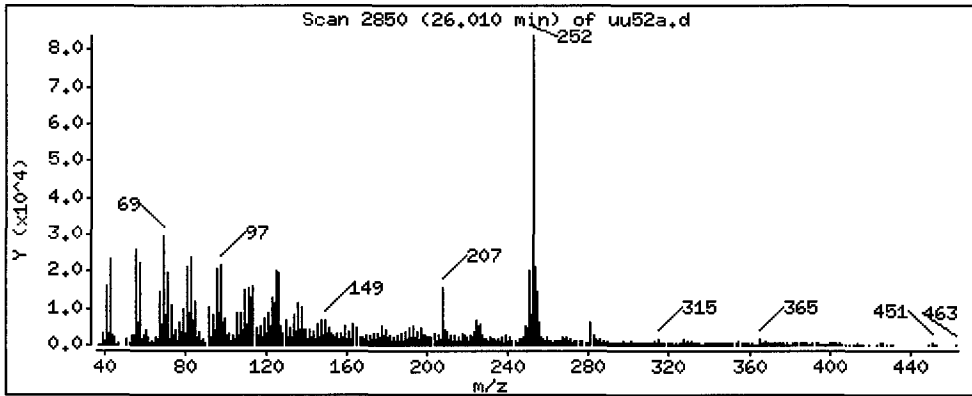
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 257.0 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

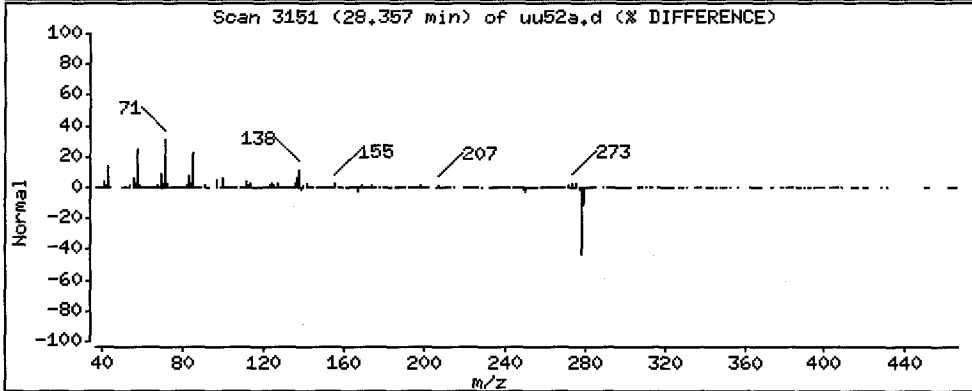
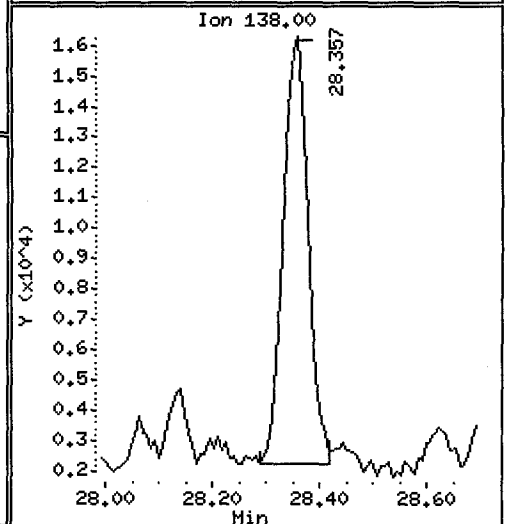
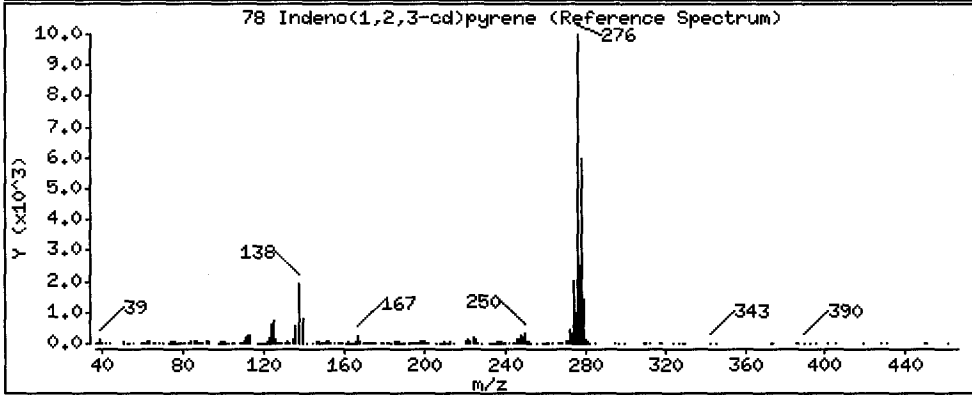
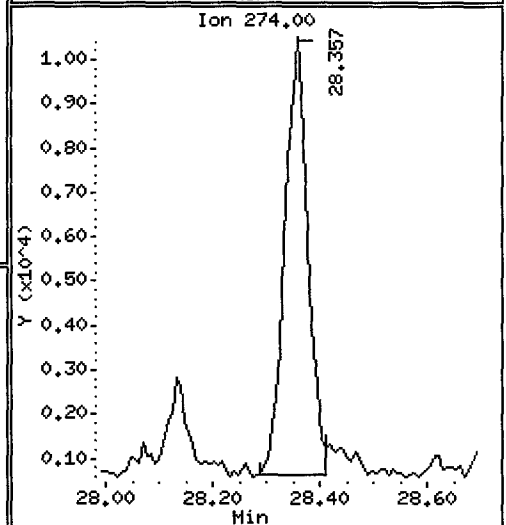
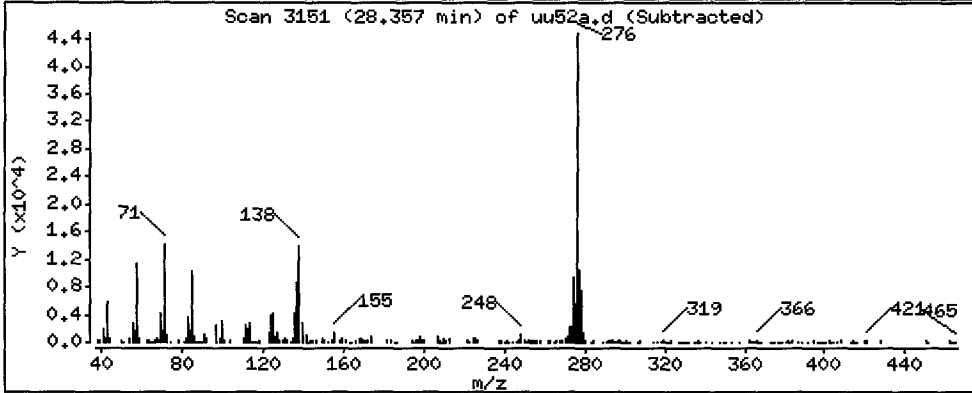
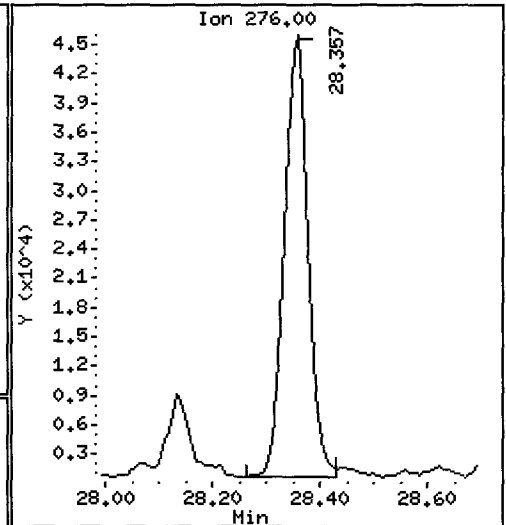
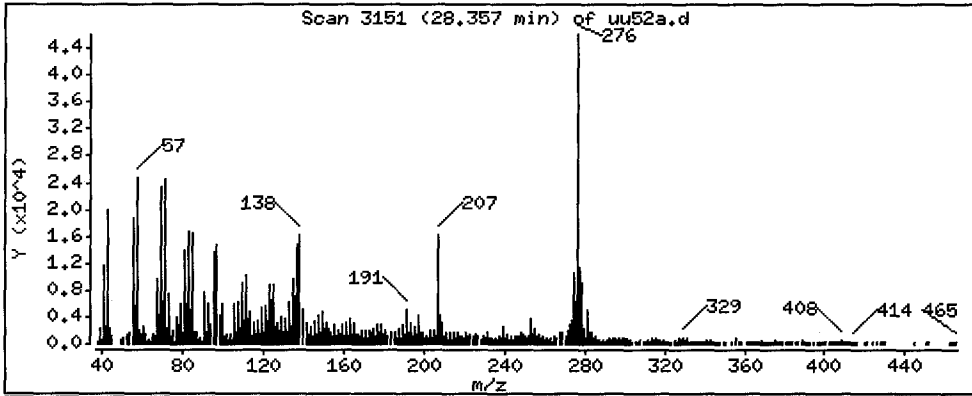
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 201.6 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

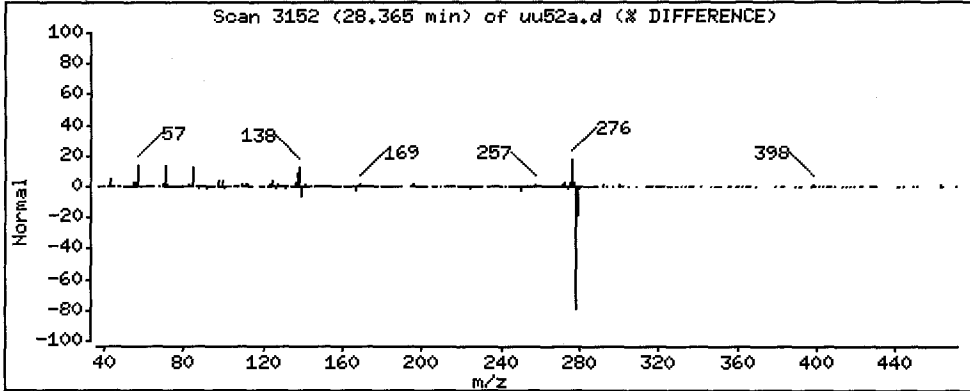
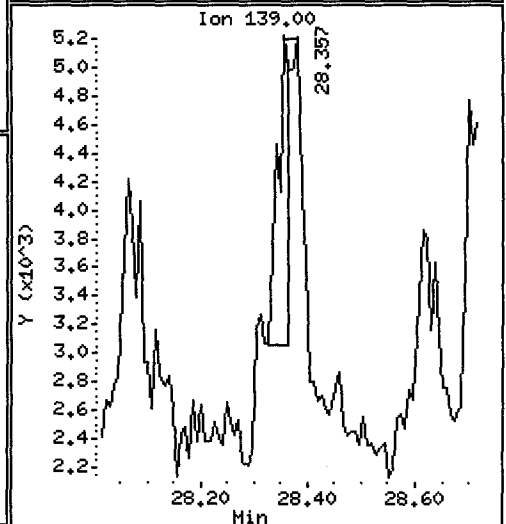
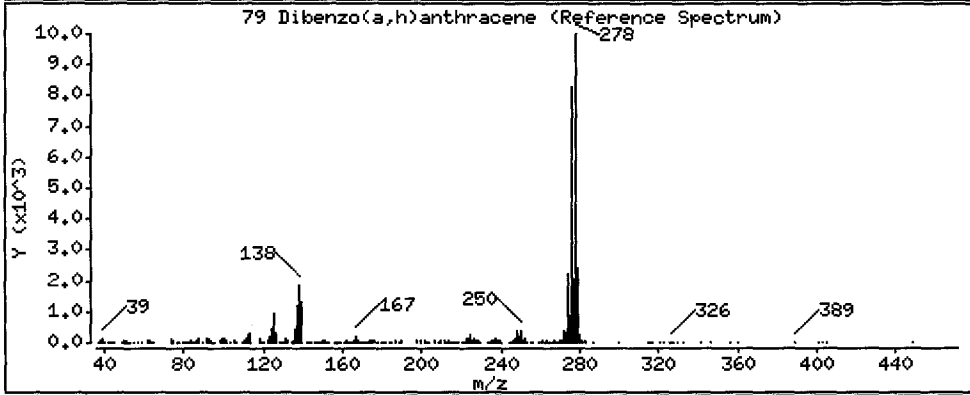
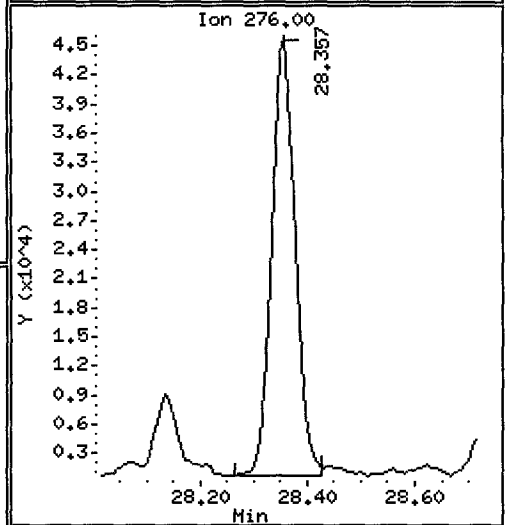
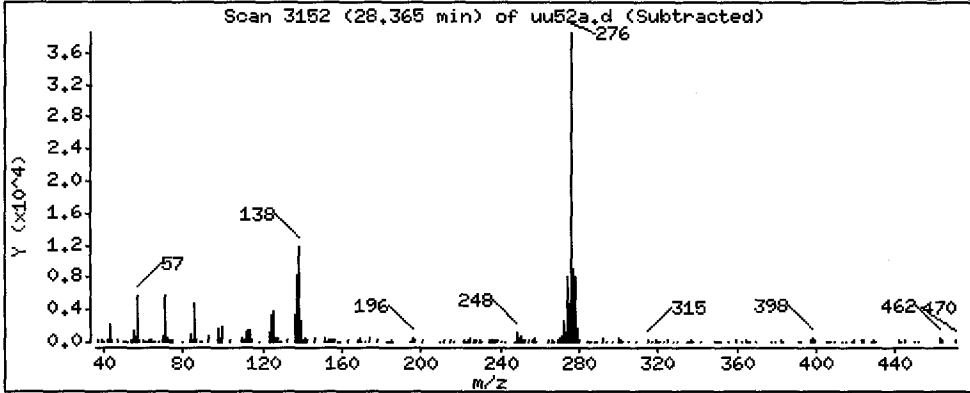
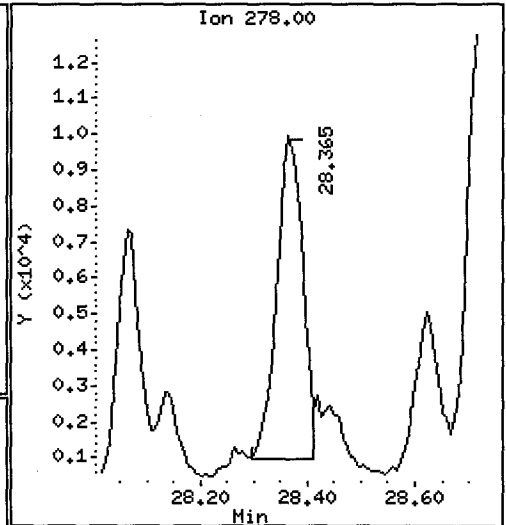
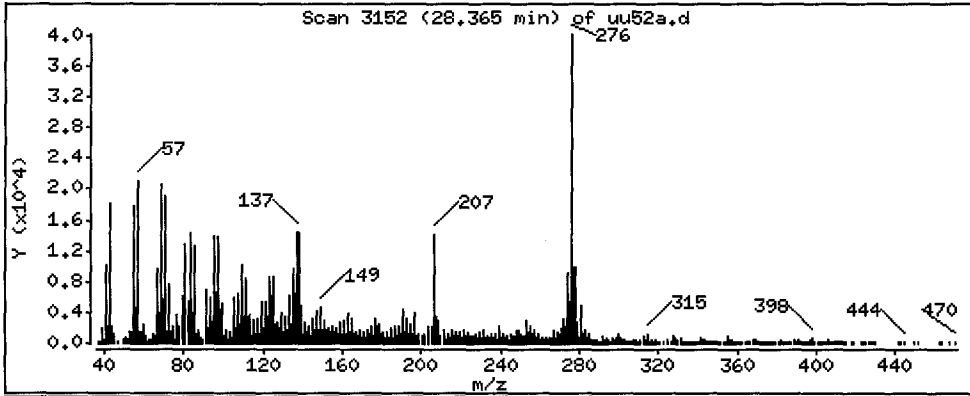
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 56.03 ug/kg

DCP



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

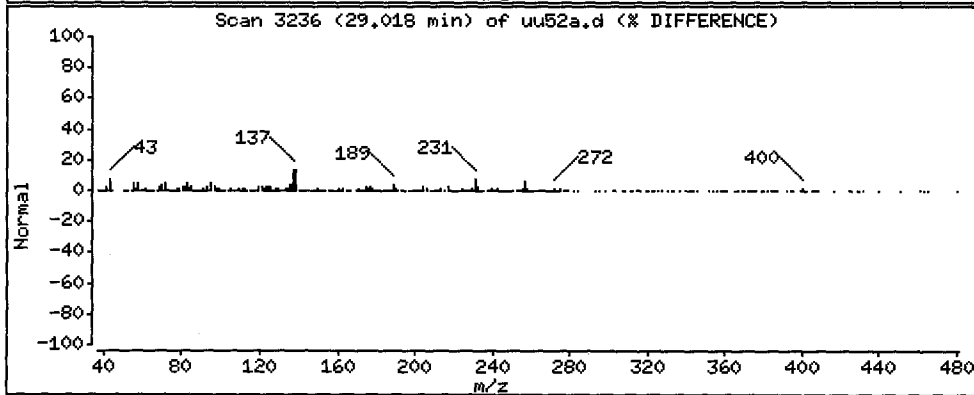
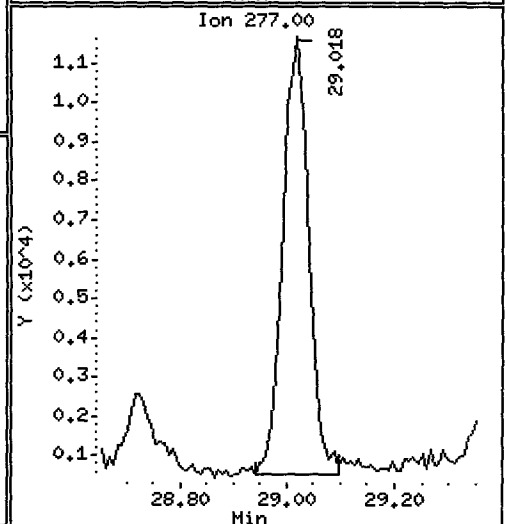
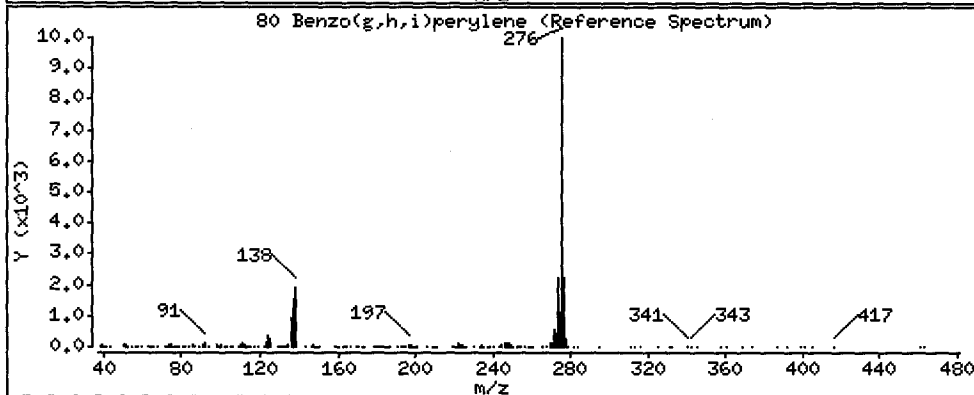
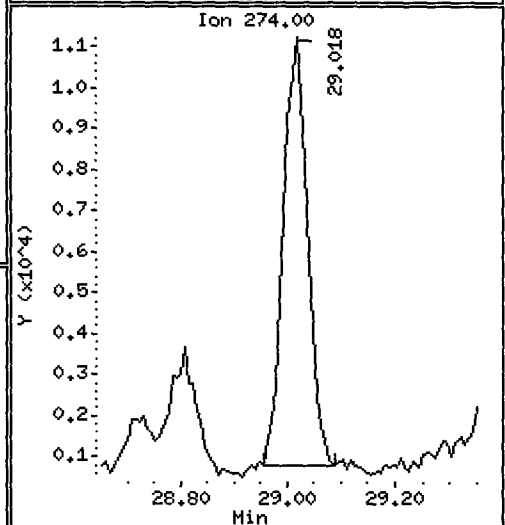
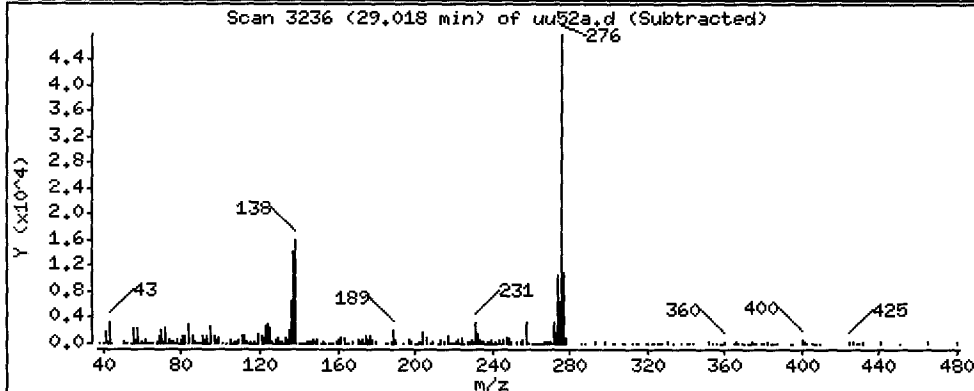
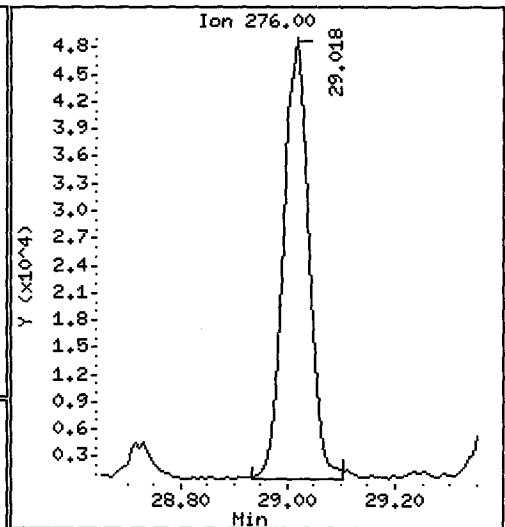
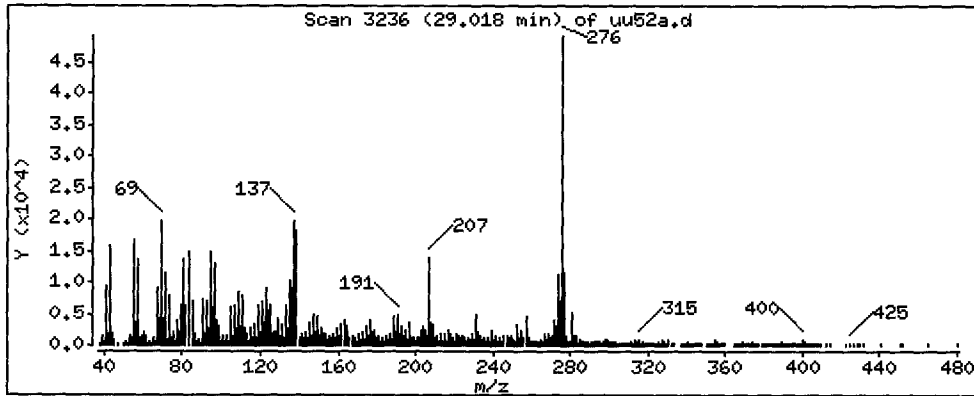
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 272.9 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

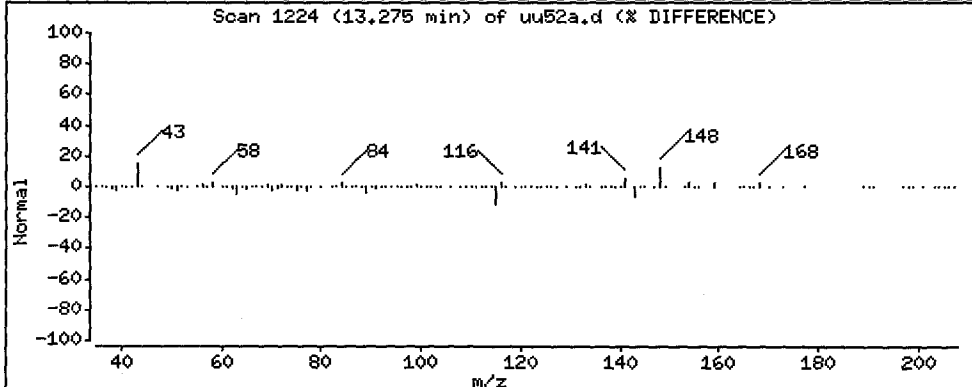
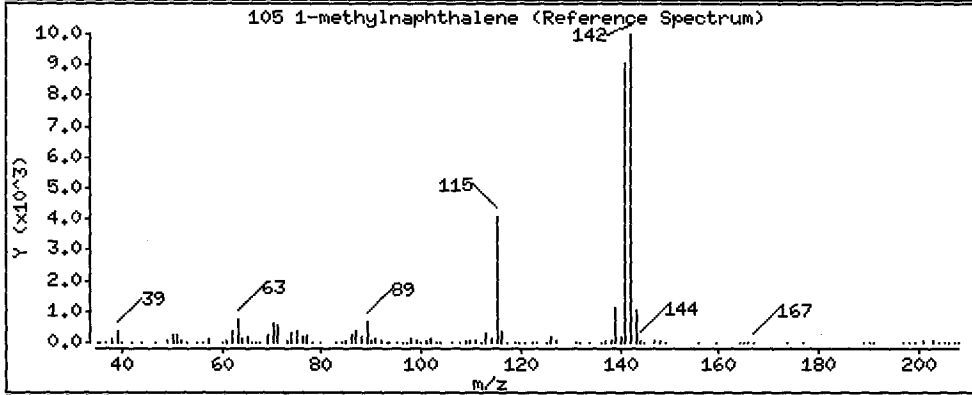
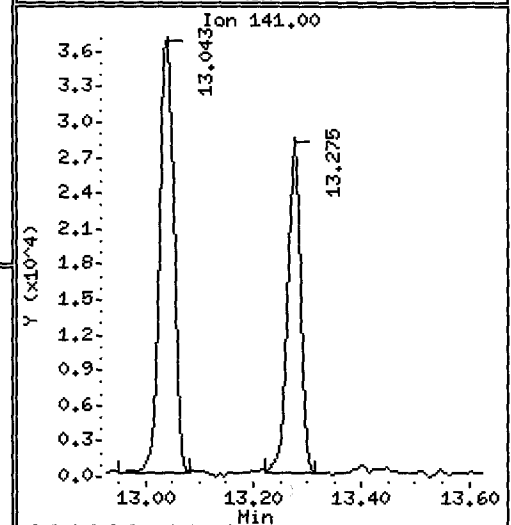
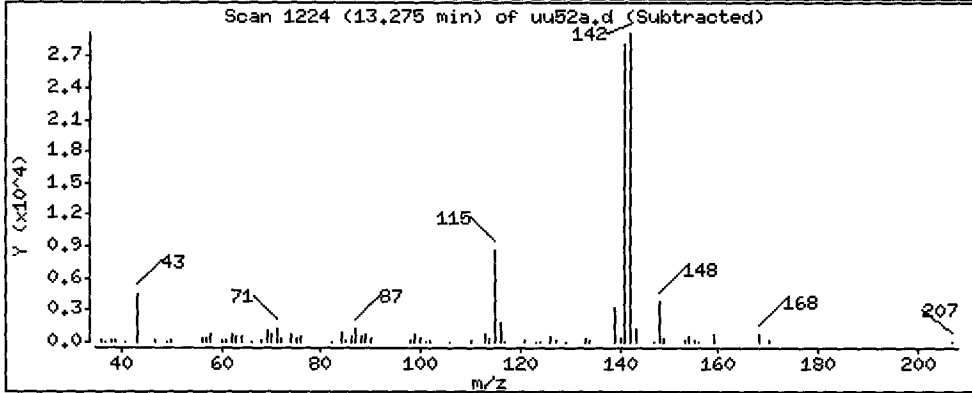
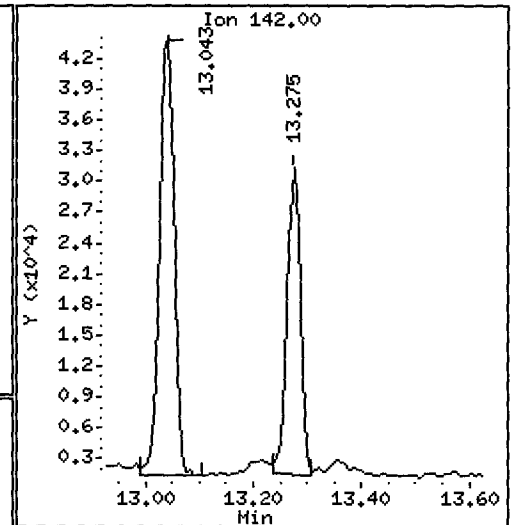
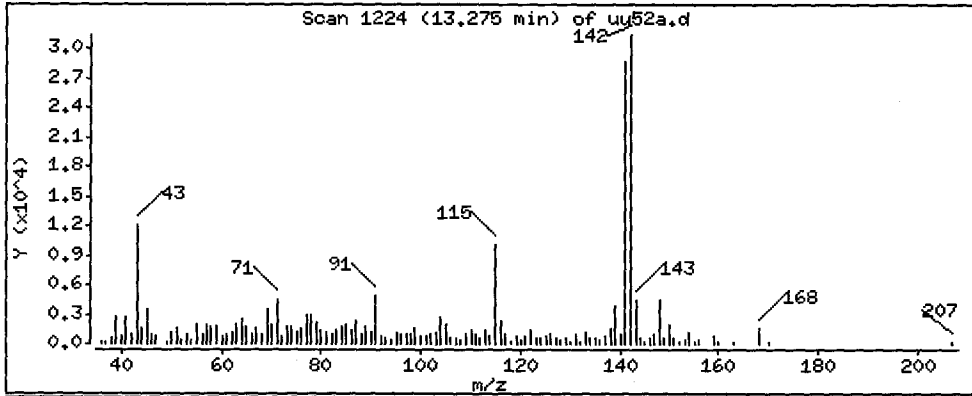
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 105.9 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

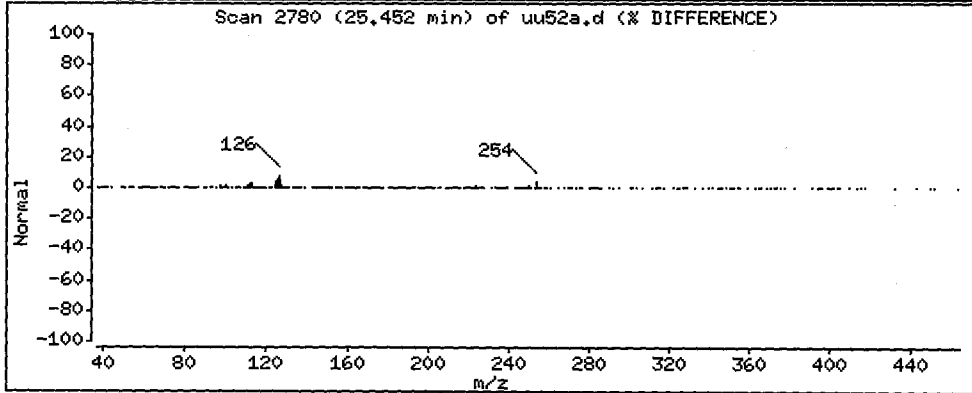
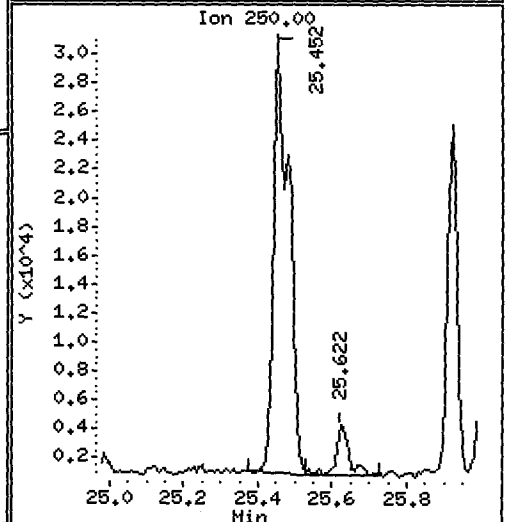
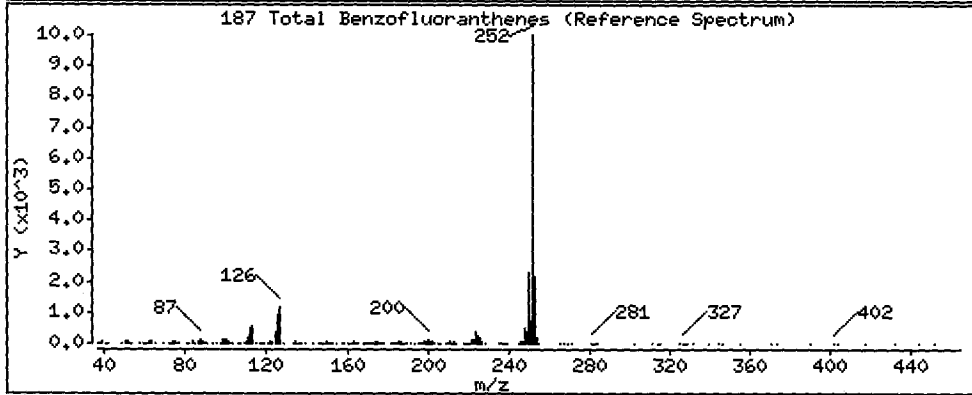
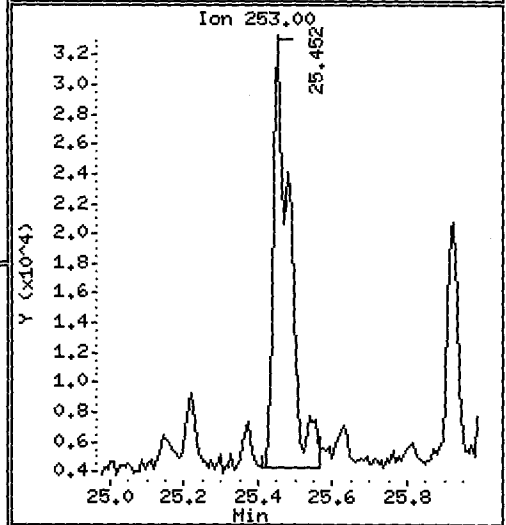
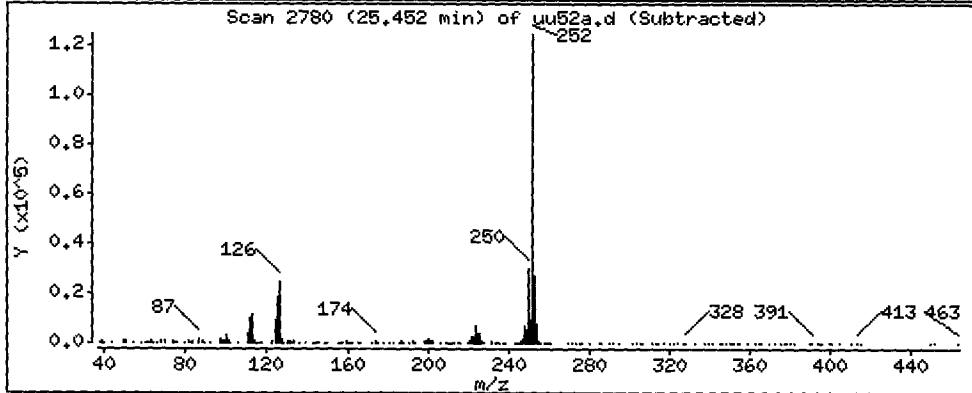
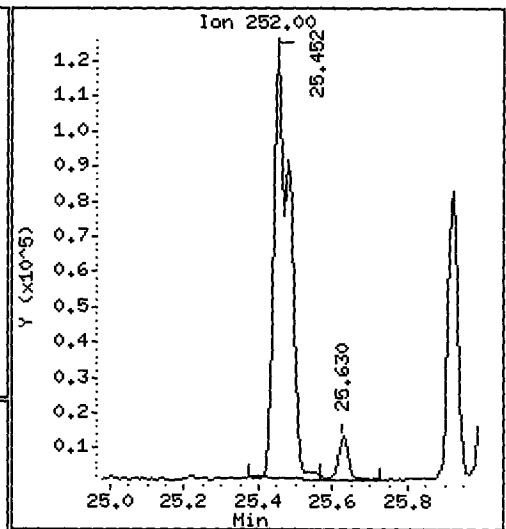
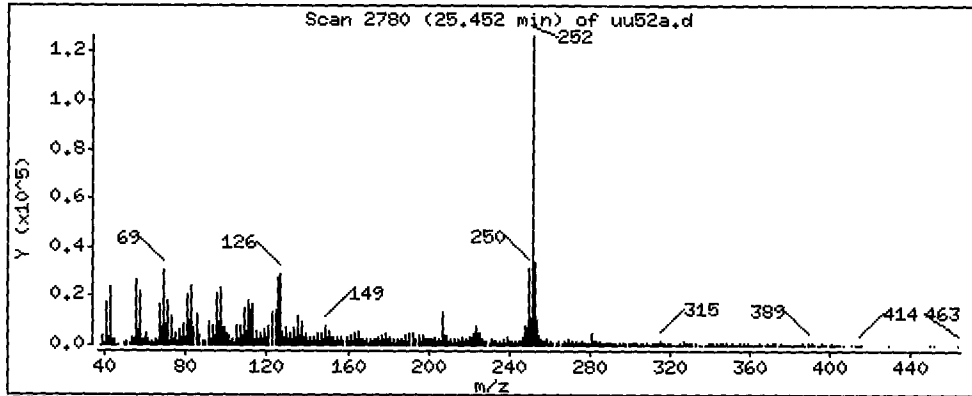
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 570.6 ug/kg



Date : 26-MAY-2012 17:11

Client ID: MS001-SS-120515

Instrument: nt10.i

Sample Info: UU52A,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

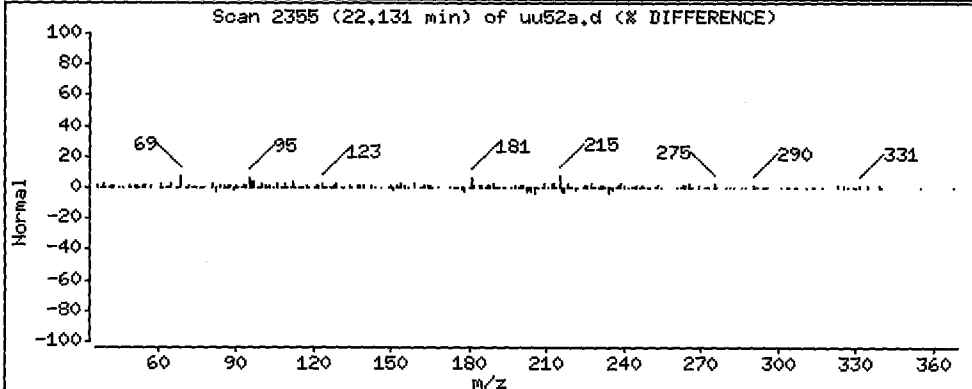
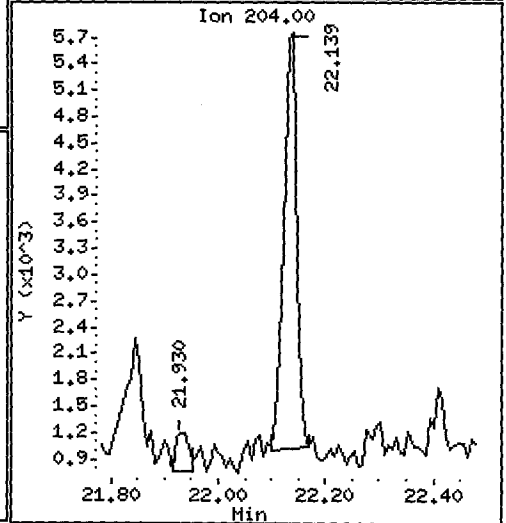
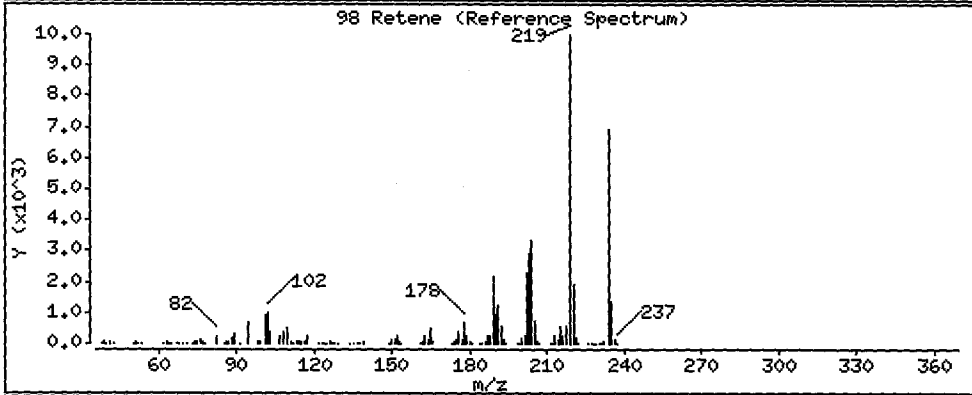
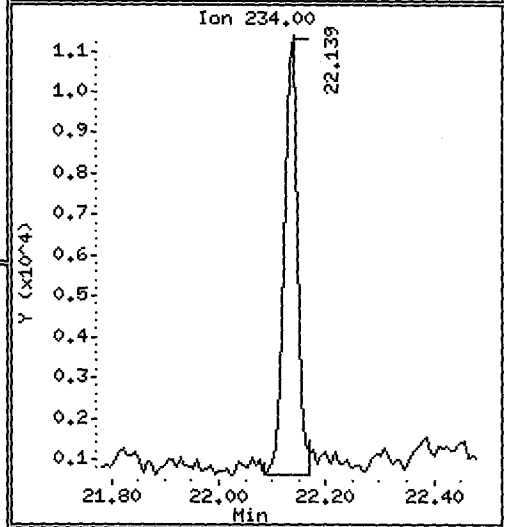
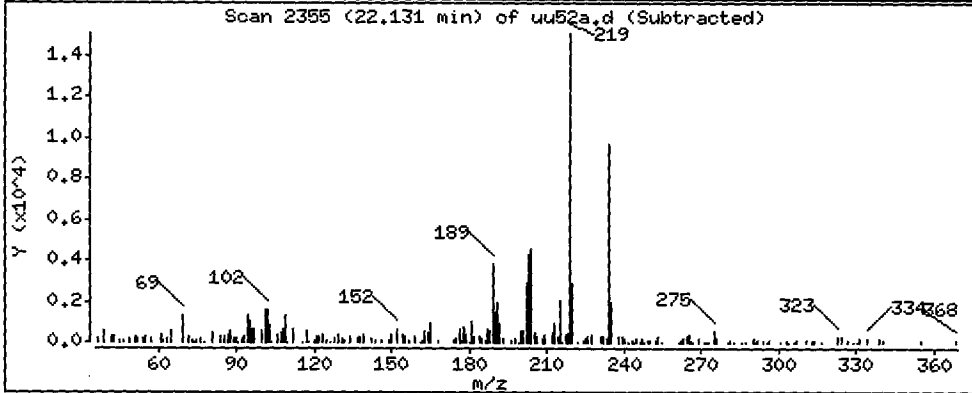
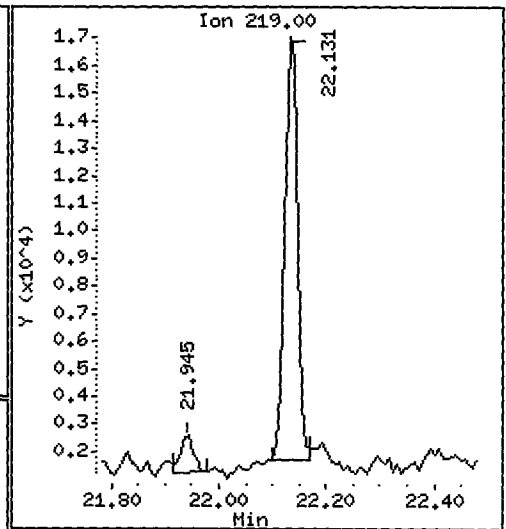
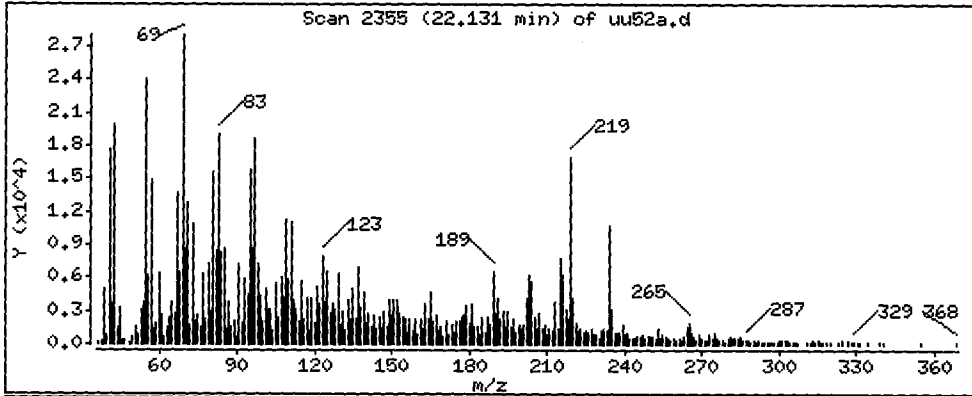
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

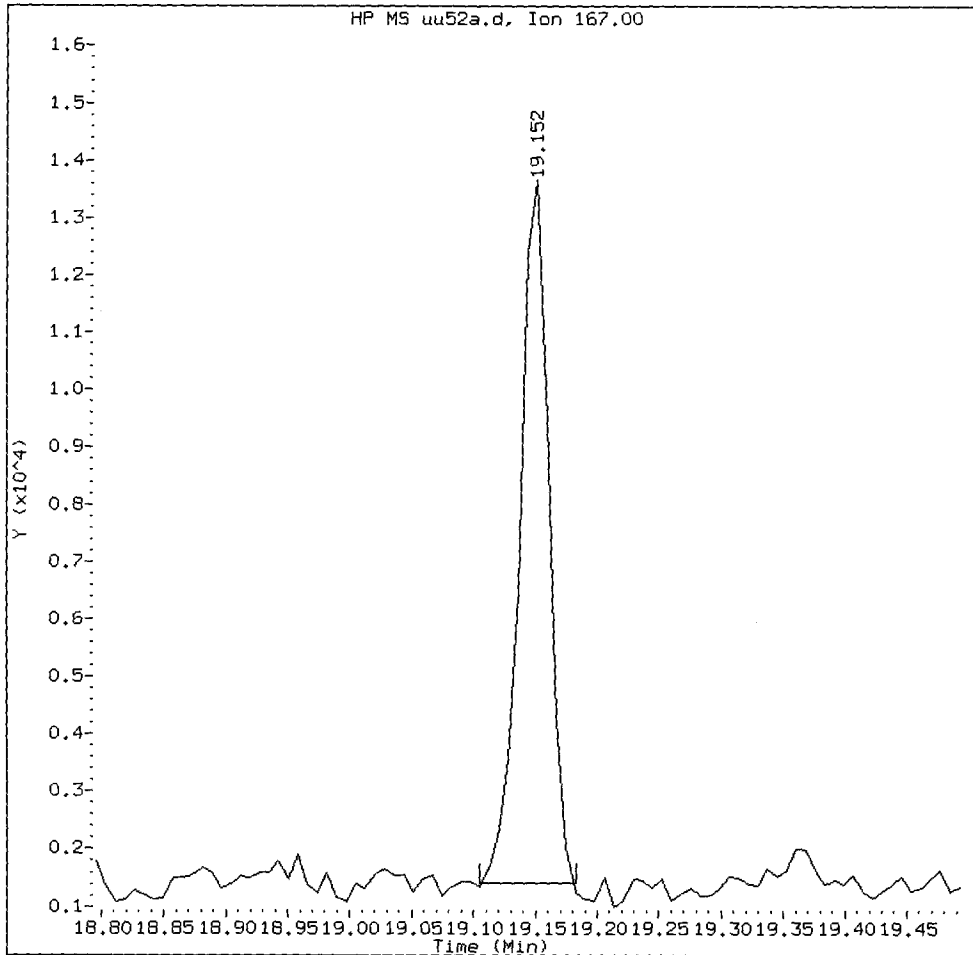
Concentration: 75.74 ug/kg

JK



UU52A, /chem1/nt10.i/20120526.b/uu52a.d

Carbazole Amount: 0.14 Area: 20102



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: YB

Date: 6/5/12

CO-ELUTION SUMMARY FOR FILE - uu52a.d

Lab ID: UU52A, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/uu52b.d
 Lab Smp Id: UU52B Client Smp ID: MS101-SS-120515
 Inj Date : 26-MAY-2012 17:48
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52B,3
 Misc Info : 12-8894
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 4
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 103.00000 | Weight of sample extracted (g) |
| M | 90.20000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.560 | 6.537 | (0.741) | 104496 | 1.56183 | 464.2 |
| \$ 2 Phenol-d5 | 99 | 8.244 | 8.237 | (0.931) | 136257 | 1.63489 | 485.9 |
| 3 Phenol | 94 | 8.268 | 8.260 | (0.934) | 120073 | 1.35163 | 401.7 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.484 | 8.476 | (0.958) | 117430 | 1.60823 | 478.0 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.855 | 8.855 | (1.000) | 191331 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.043) | 45483 | 0.94953 | 282.2 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | 9.181 | 9.166 | (1.037) | 4604 | 0.12336 | 36.66 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | 9.740 | 9.725 | (1.100) | 382447 | 5.23559 | 1556 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.027 | 10.027 | (0.872) | 68438 | 0.98606 | 293.1 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | 10.856 | 10.833 | (0.944) | 8101 | 0.11872 | 35.28 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | 11.026 | 11.087 | (0.958) | 96121 | 2.15197 | 639.6 |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.504 | (1.000) | 774622 | 4.00000 | |
| 28 Naphthalene | 128 | 11.542 | 11.542 | (1.003) | 1214937 | 6.22144 | 1849 |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 125267 | 0.92272 | 274.2 |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 163778 | 1.09375 | 325.1 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | 15.032 | 15.032 | (0.977) | 84179 | 0.43391 | 129.0 |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.380 | 15.373 | (1.000) | 431955 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.004) | 60440 | 0.51652 | 153.5 |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.027) | 161833 | 0.94401 | 280.6 |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | 16.563 | 16.563 | (1.077) | 76692 | 0.58385 | 173.5 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.149 | 17.142 | (1.115) | 31403 | 1.76134 | 523.5 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | 18.386 | 18.378 | (0.986) | 10089 | 0.53004 | 157.5 |
| * 59 Phenanthrene-d10 | 188 | 18.641 | 18.633 | (1.000) | 601035 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.695 | 18.687 | (1.003) | 609174 | 3.93057 | 1168 |
| 61 Anthracene | 178 | 18.788 | 18.780 | (1.008) | 96618 | 0.59677 | 177.4 |

| Compounds | QUANT SIG | | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|------------------------|----------------|----------------|-------------------|---------------|--|--|
| | MASS | RT | EXP RT REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | | |
| 62 Carbazole | 167 | 19.152 | 19.144 (1.027) | 28849 | 0.19258 | 57.24 (M) | | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.132 | 21.101 (1.134) | 575551 | 3.27075 | 972.1 | | |
| 65 Pyrene | 202 | 21.535 | 21.519 (0.908) | 621489 | 3.05625 | 908.3 | | |
| \$ 66 Terphenyl-d14 | 244 | 21.852 | 21.844 (0.921) | 146138 | 1.14720 | 341.0 | | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo(a)anthracene | 228 | 23.687 | 23.679 (0.999) | 109471 | 0.58231 | 173.1 | | |
| * 69 Chrysene-d12 | 240 | 23.718 | 23.710 (1.000) | 668327 | 4.00000 | | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.757 | 23.749 (1.002) | 220845 | 1.33539 | 396.9 | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.826 | 23.818 (0.961) | 61873 | 0.41508 | 123.4 | | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.802 | 24.794 (1.000) | 1085453 | 4.00000 | | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo(a)pyrene | 252 | 26.017 | 26.002 (0.996) | 157613 | 0.91381 | 271.6 | | |
| * 77 Perylene-d12 | 264 | 26.118 | 26.102 (1.000) | 667061 | 4.00000 | | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.365 | 28.342 (1.086) | 151843 | 0.76107 | 226.2 | | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.373 | 28.365 (1.086) | 28544 | 0.18162 | 53.98 | | |
| 80 Benzo(g,h,i)perylene | 276 | 29.025 | 29.002 (1.111) | 191714 | 1.12057 | 333.0 | | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.283 | 13.275 (1.155) | 78703 | 0.56845 | 168.9 | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.460 | 25.483 (0.975) | 393793 | 2.12756 | 632.3 | | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.138 | 22.131 (0.933) | 32970 | 0.34818 | 103.5 | | |

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: uu52b.d
 Lab Smp Id: UU52B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8894

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS101-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 191331 | 0.96 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 774622 | 5.98 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 431955 | 2.68 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 601035 | -5.93 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 668327 | 3.61 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1085453 | 6.82 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 667061 | 2.62 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.72 | 0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.80 | 0.03 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.12 | 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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52B | Client Smp ID: MS101-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8894 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 743.0 | 464.2 | 62.47 | 30-160 |
| \$ 2 Phenol-d5 | 743.0 | 485.9 | 65.40 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 743.0 | 478.0 | 64.33 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 495.3 | 282.2 | 56.97 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 495.3 | 293.1 | 59.16 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 495.3 | 325.1 | 65.62 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 743.0 | 523.5 | 70.45 | 30-160 |
| \$ 66 Terphenyl-d14 | 495.3 | 341.0 | 68.83 | 30-160 |

Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Sample Info: UU52B,3

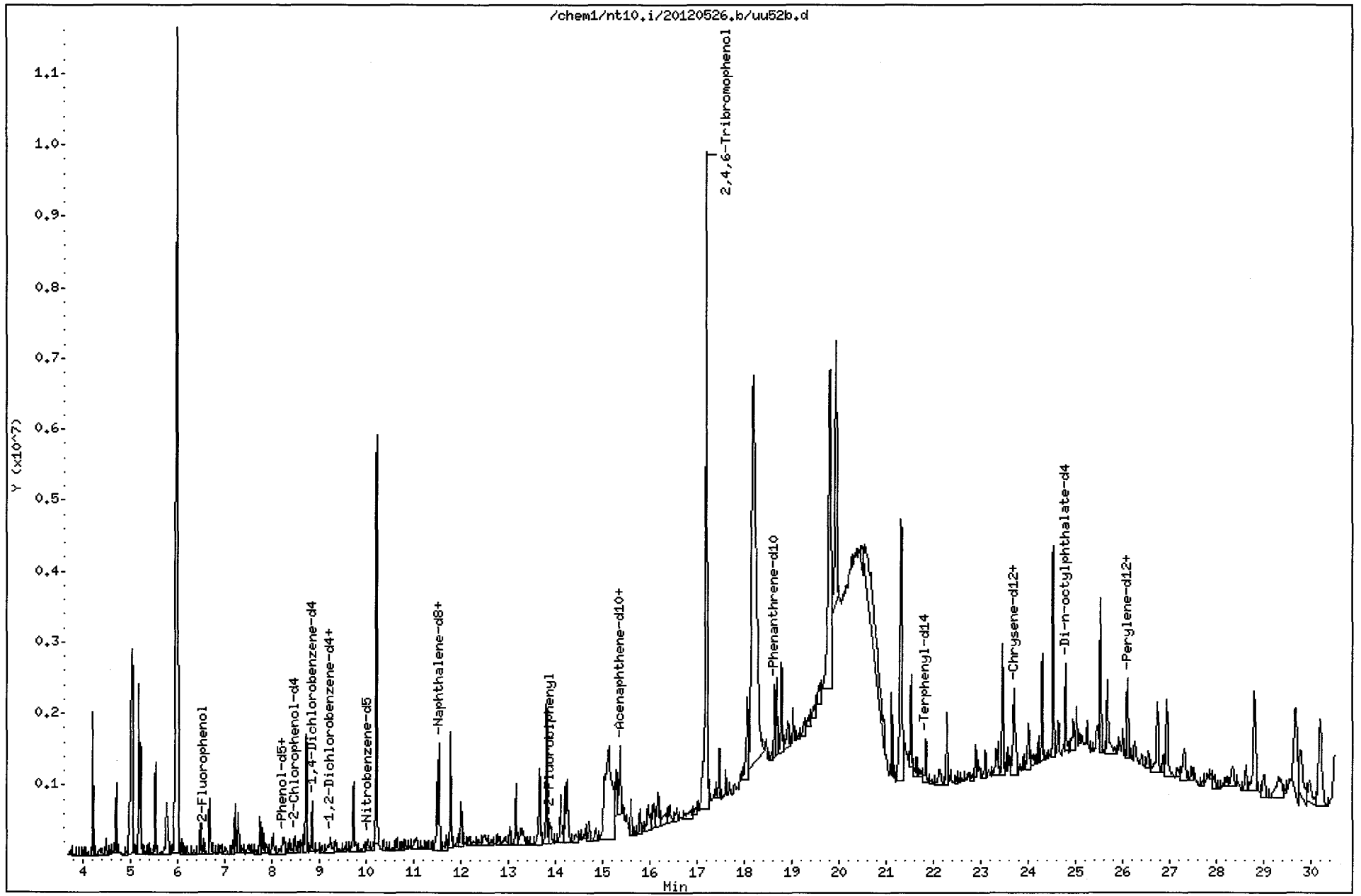
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0,25



UU52:00731

Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

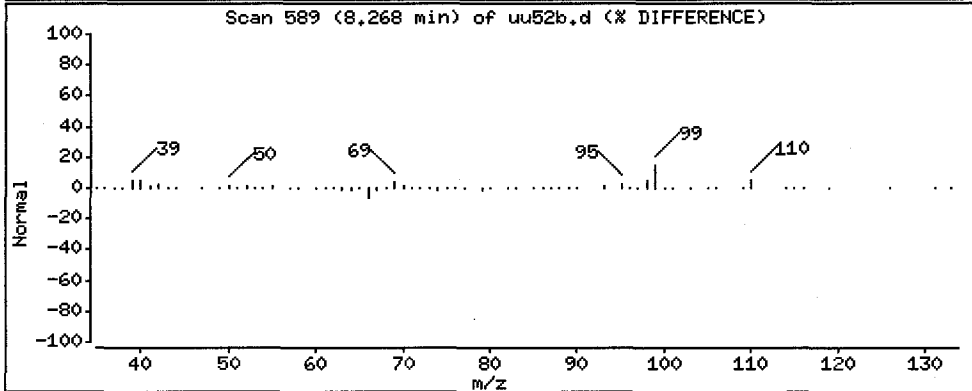
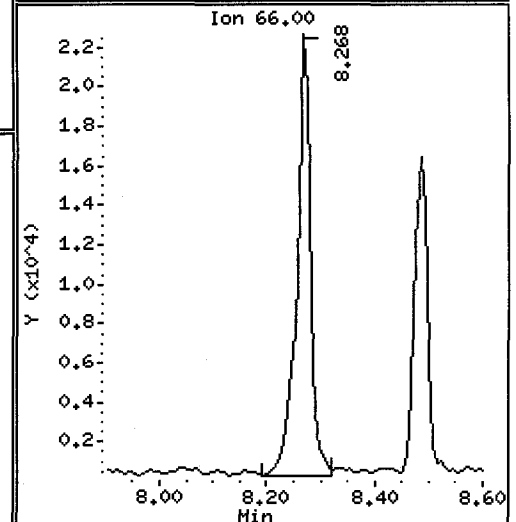
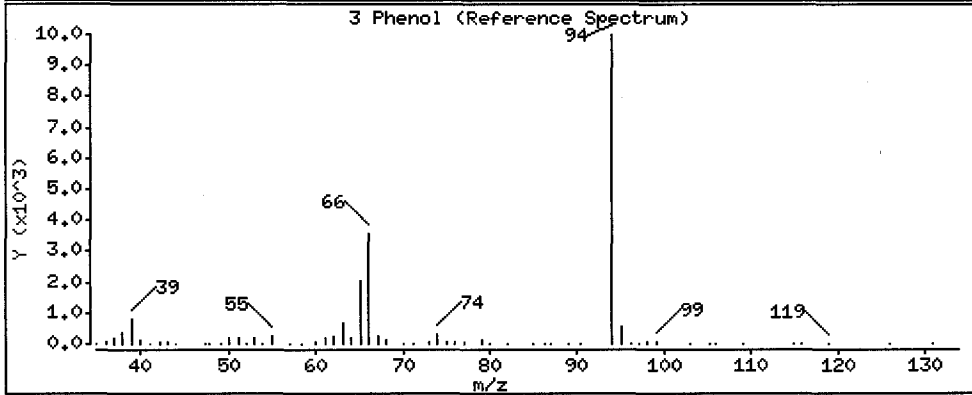
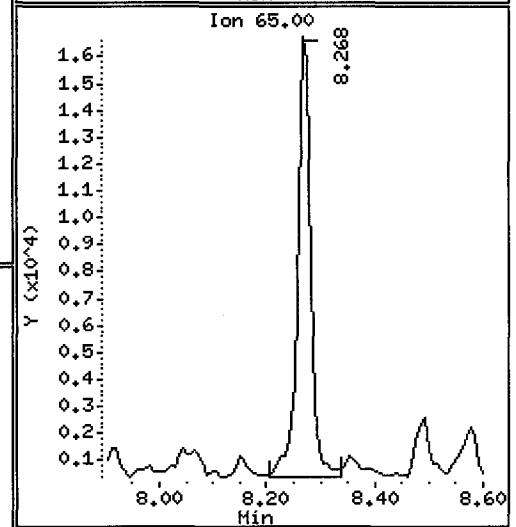
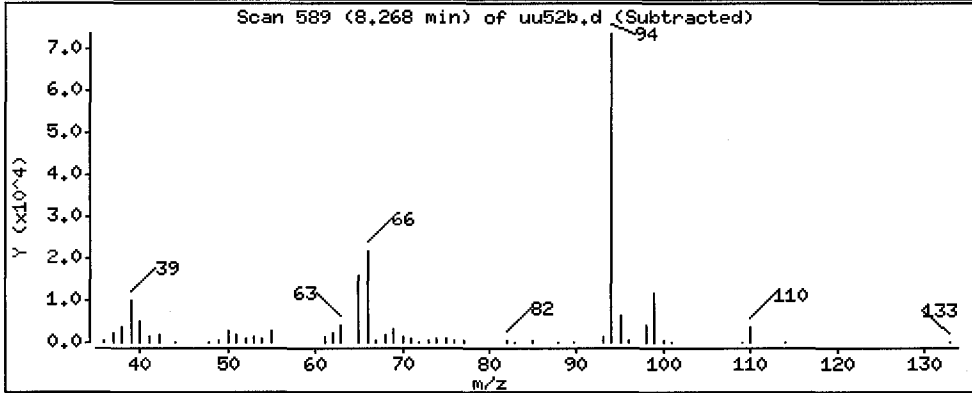
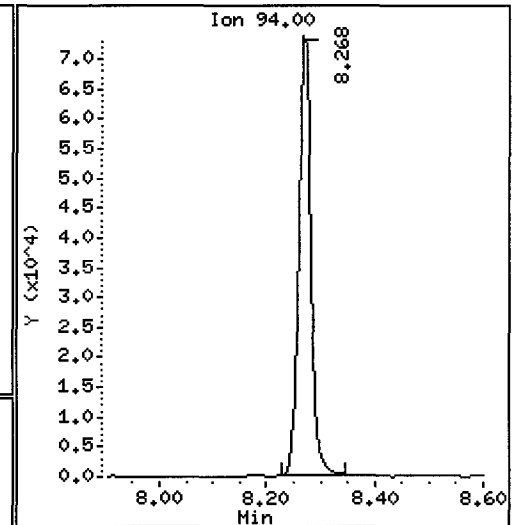
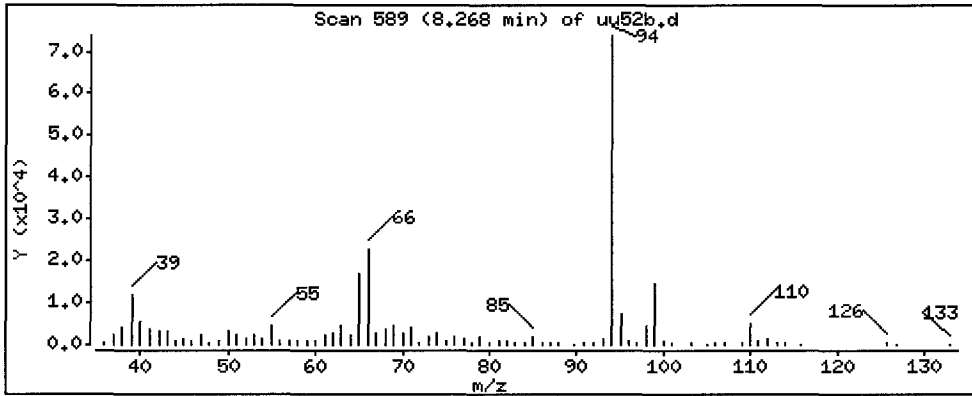
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 401.7 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

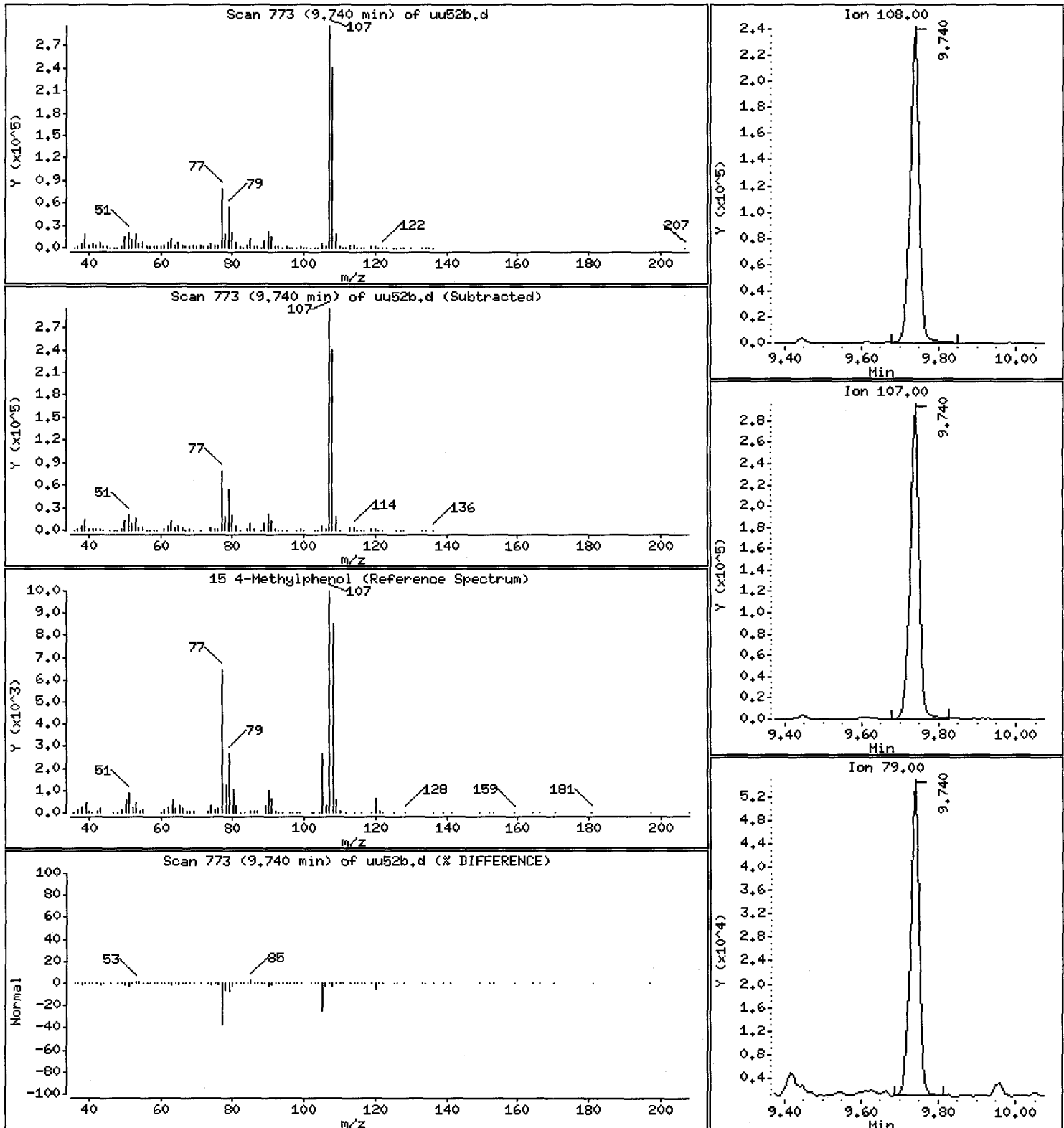
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1556 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

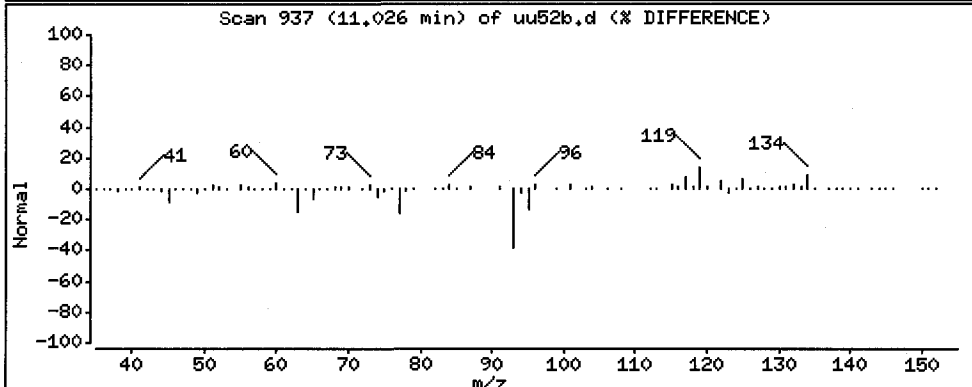
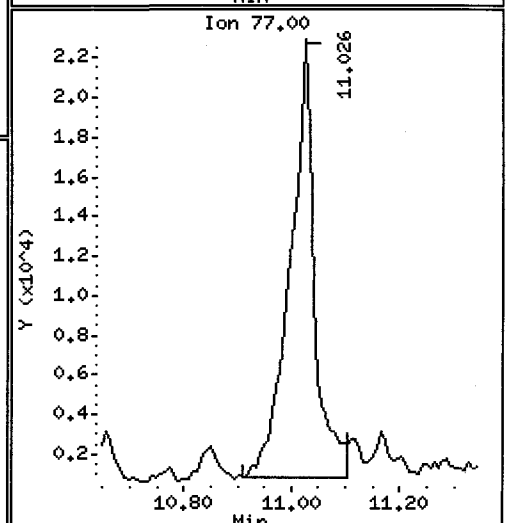
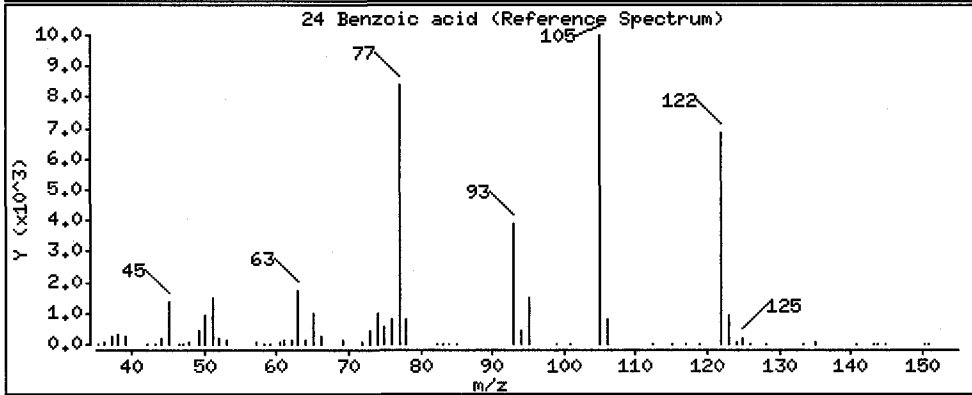
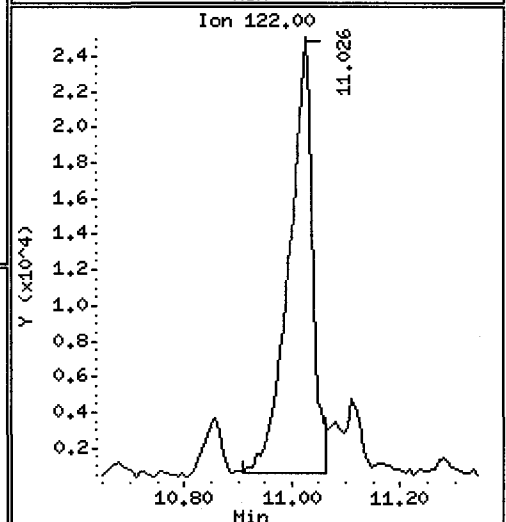
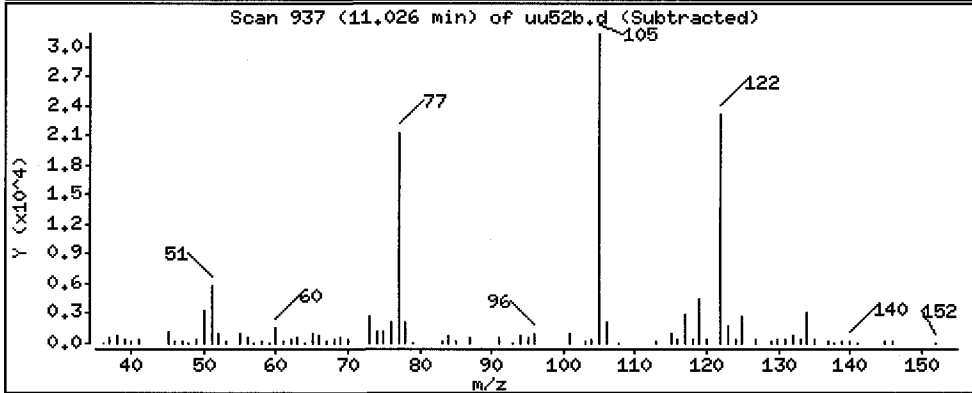
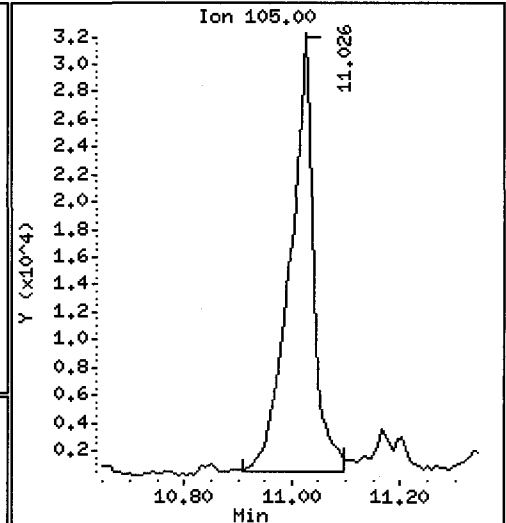
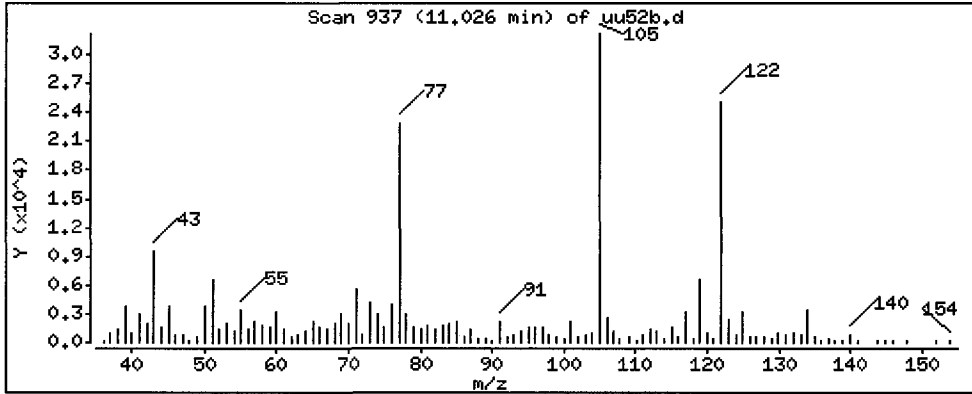
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 639.6 ug/kg

JUL



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

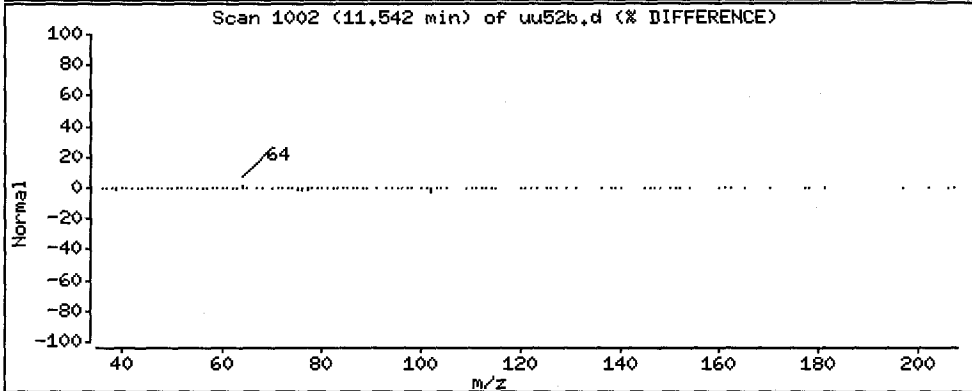
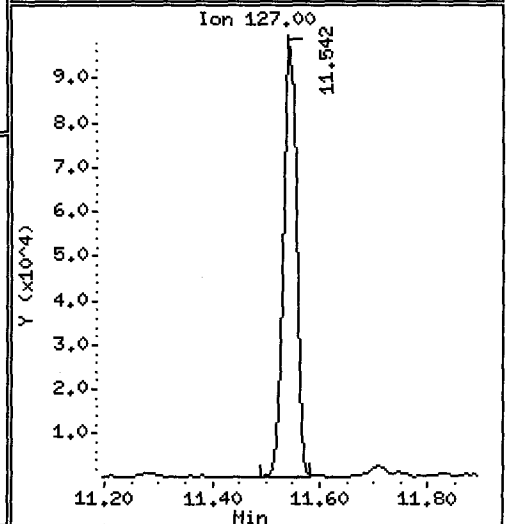
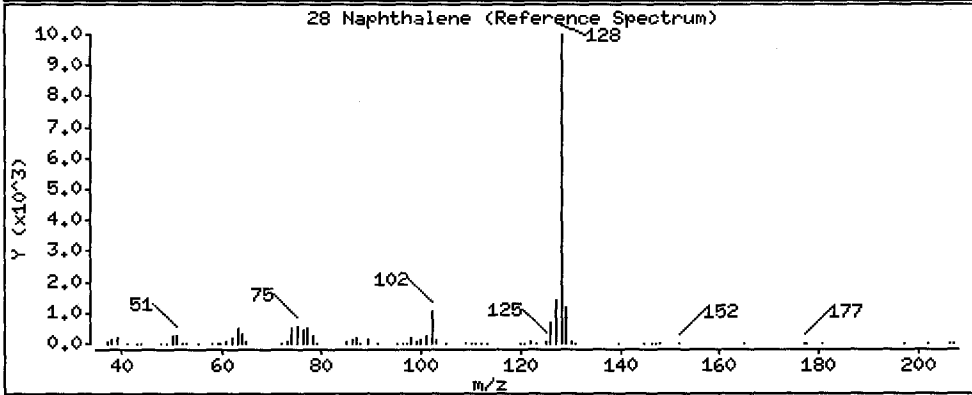
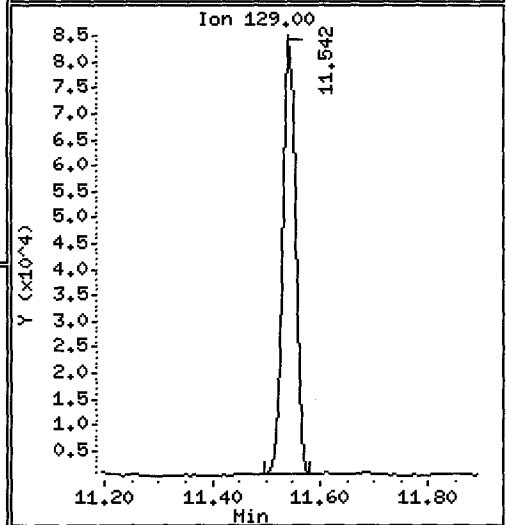
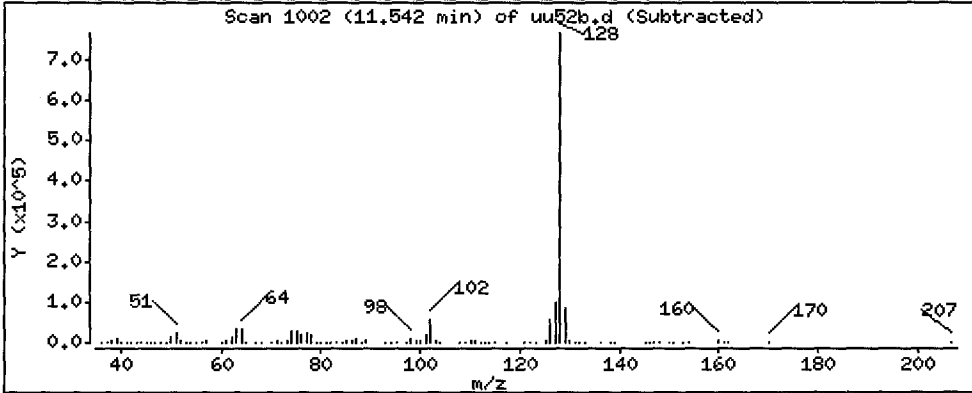
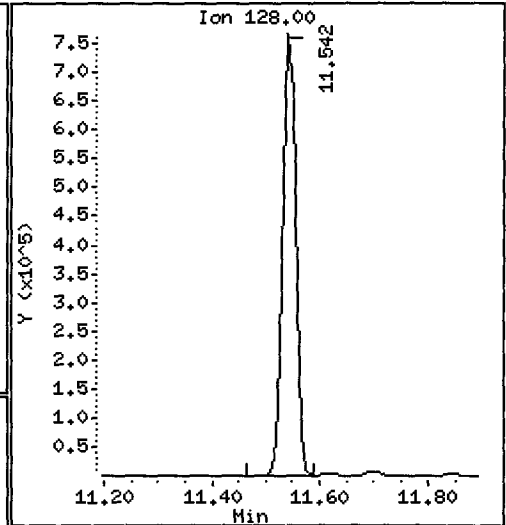
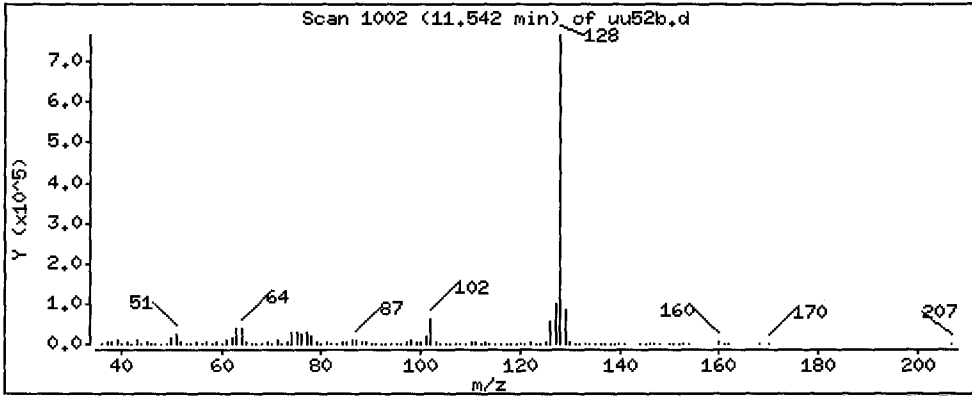
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 1849 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

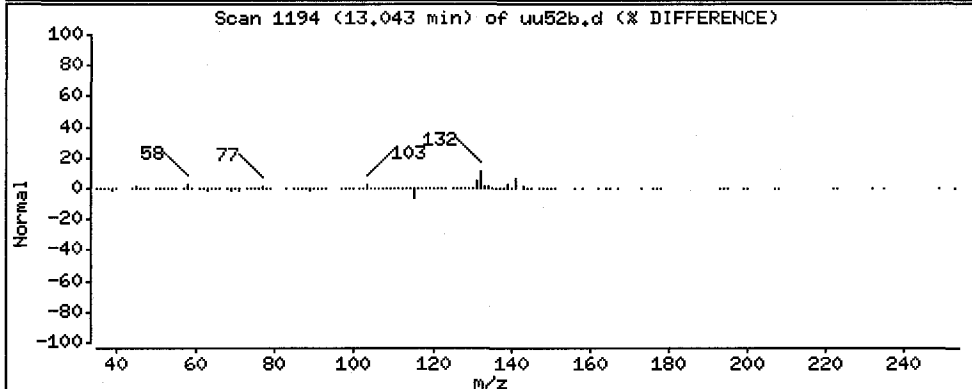
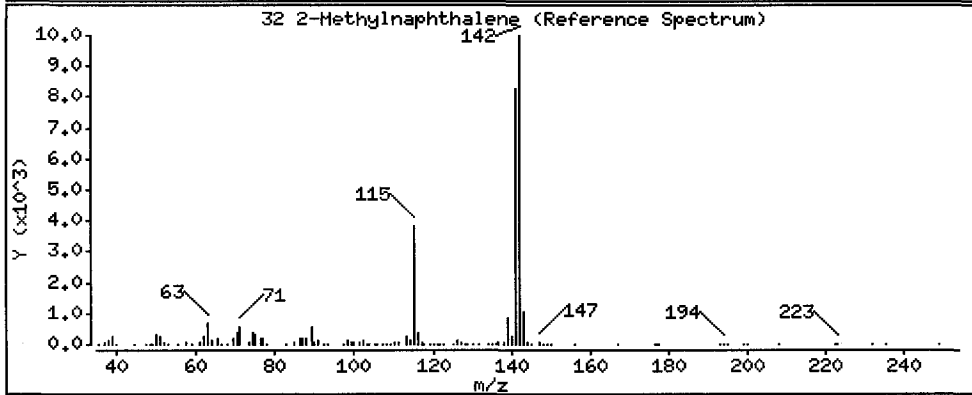
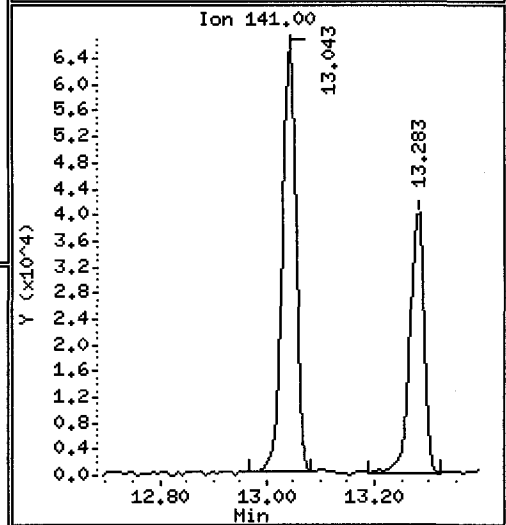
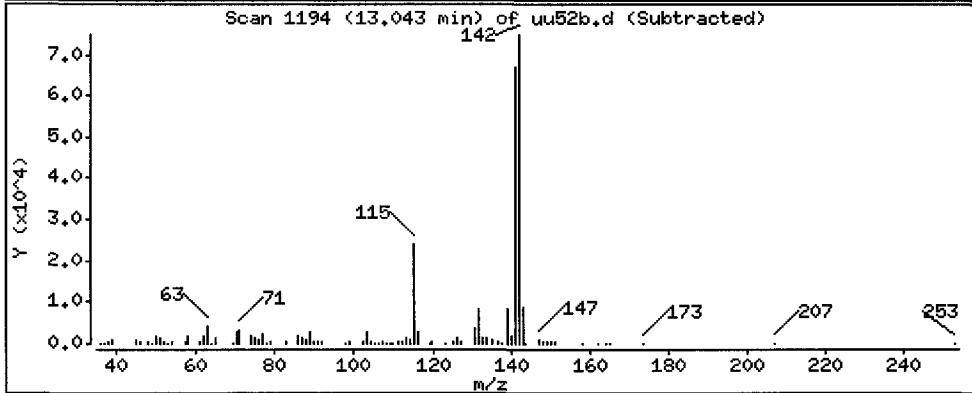
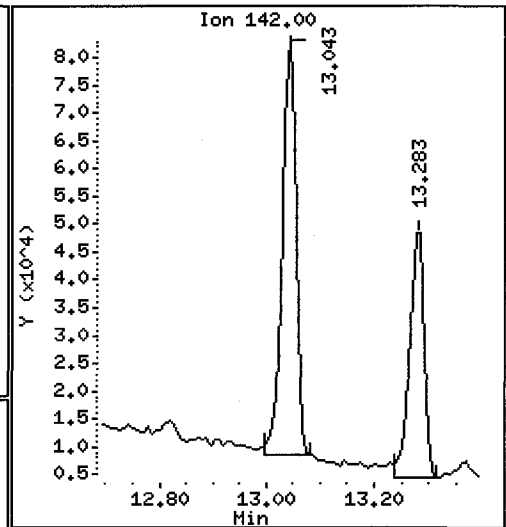
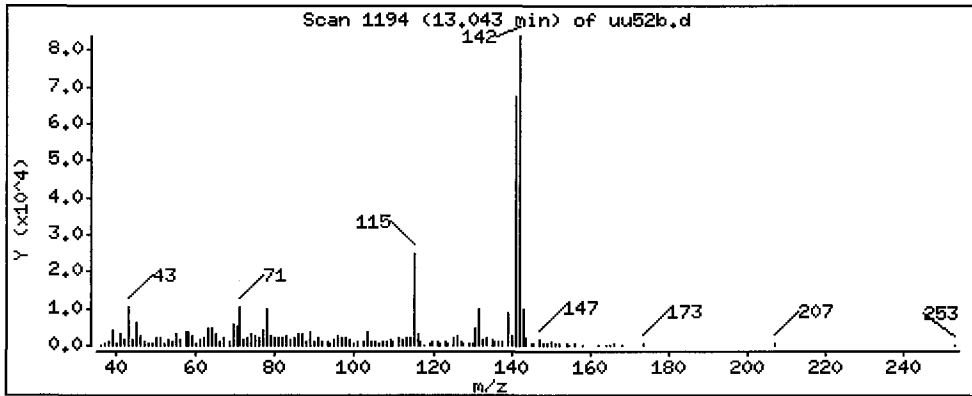
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 274.2 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

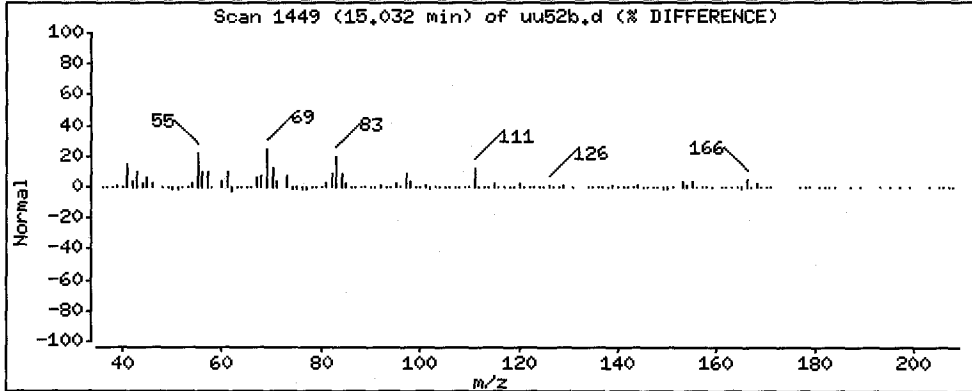
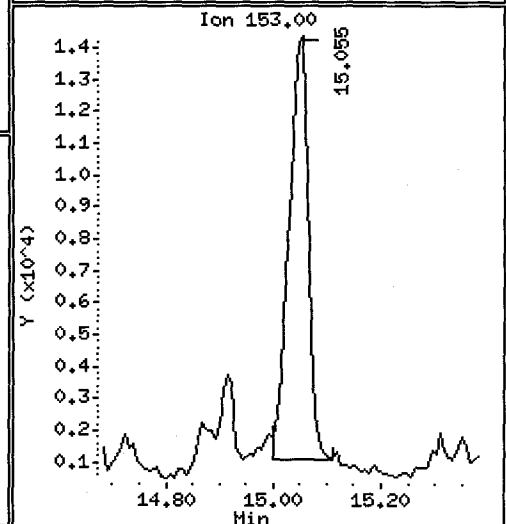
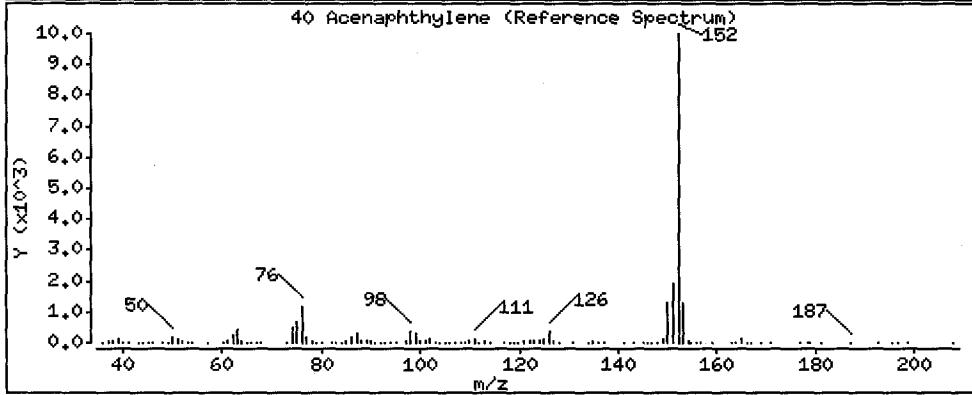
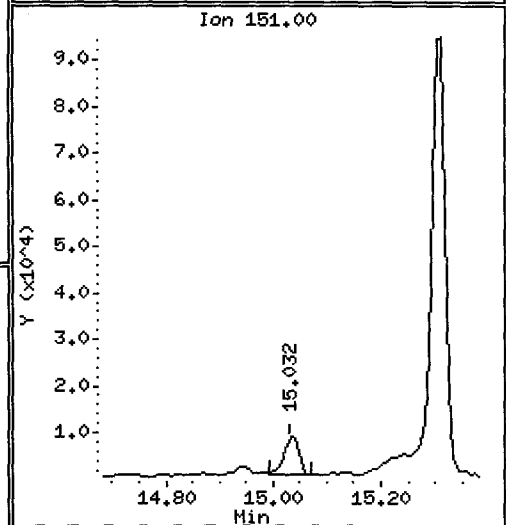
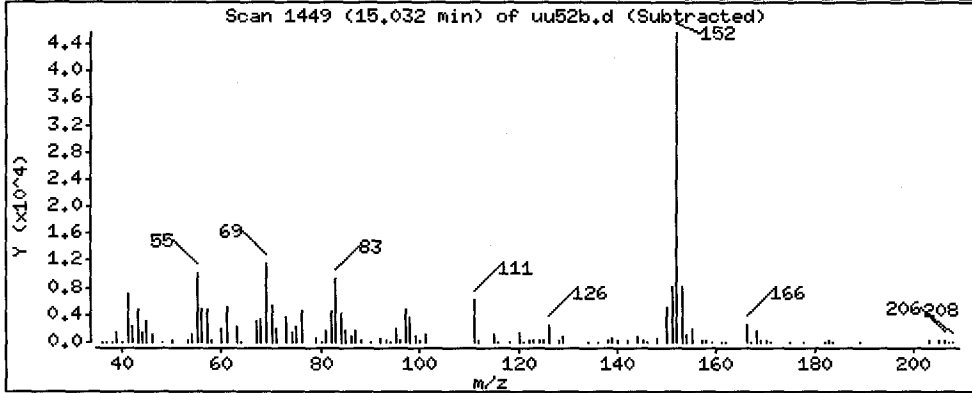
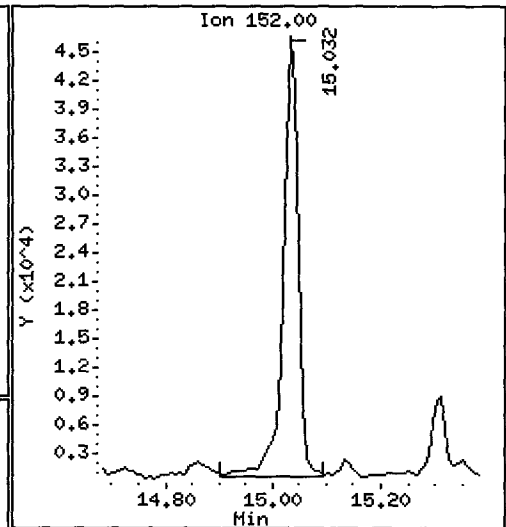
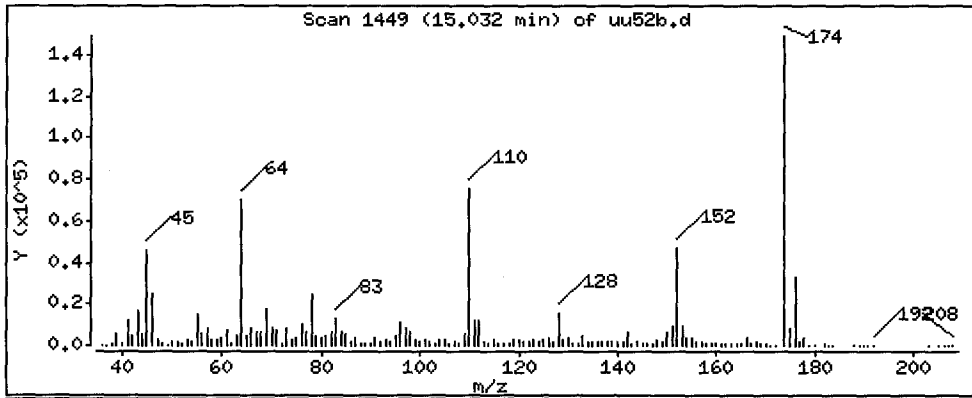
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 129.0 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

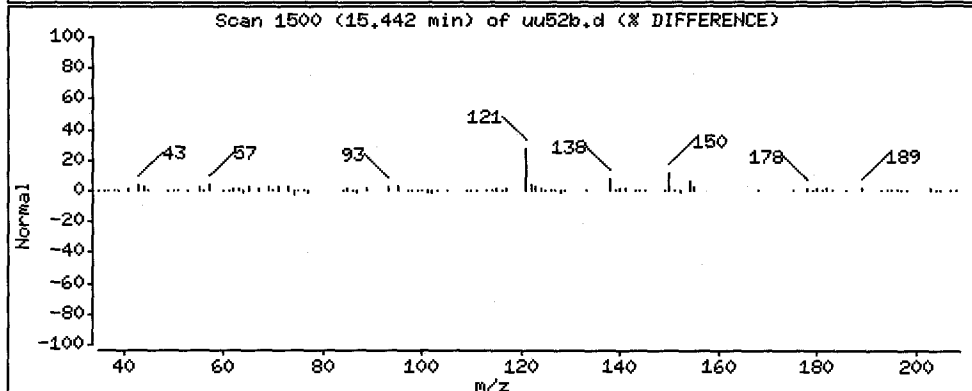
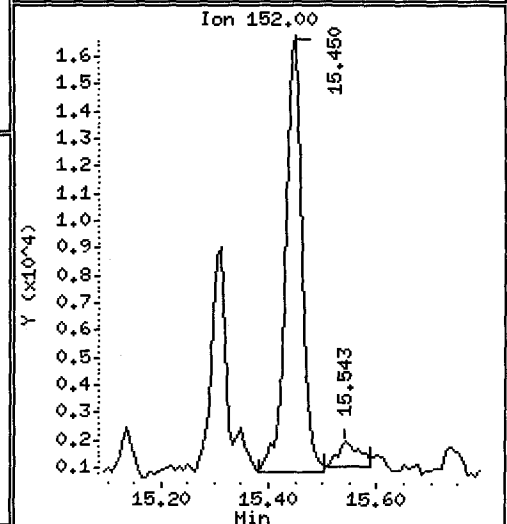
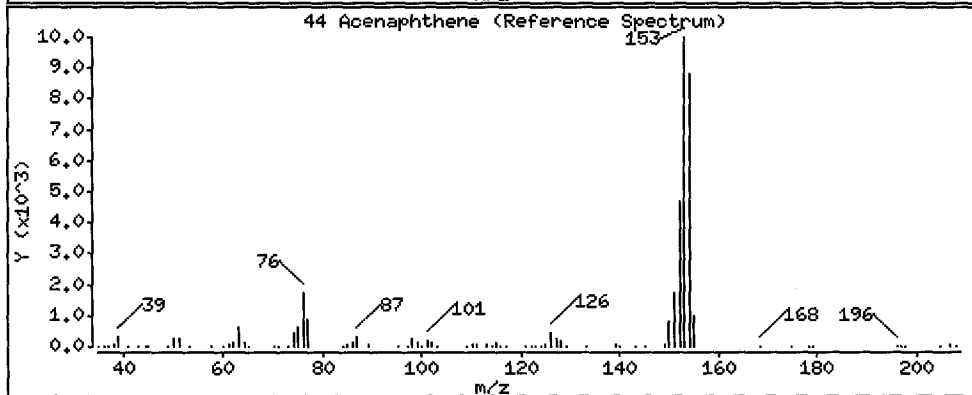
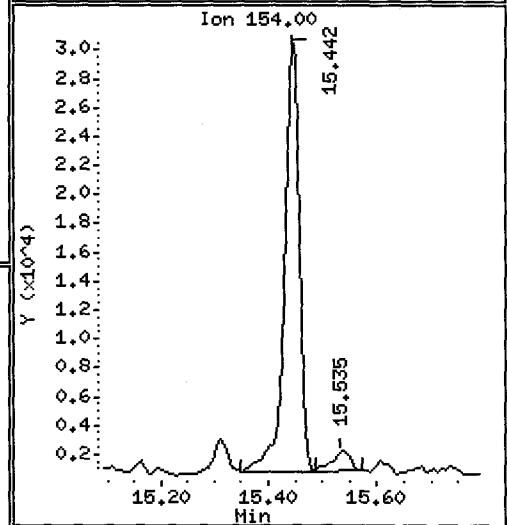
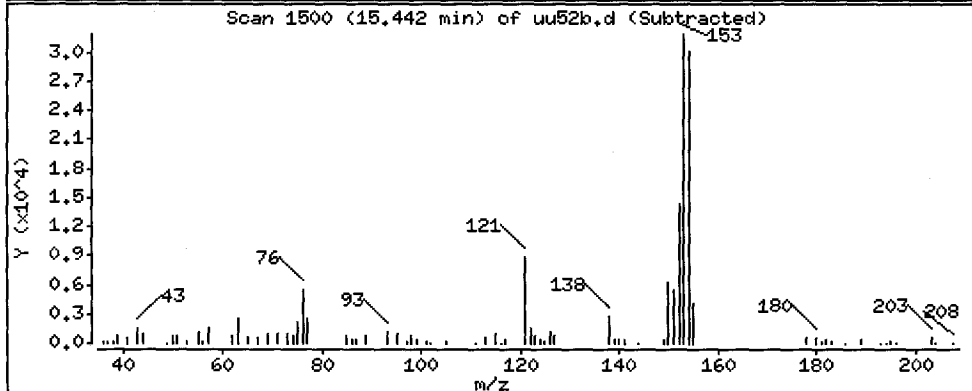
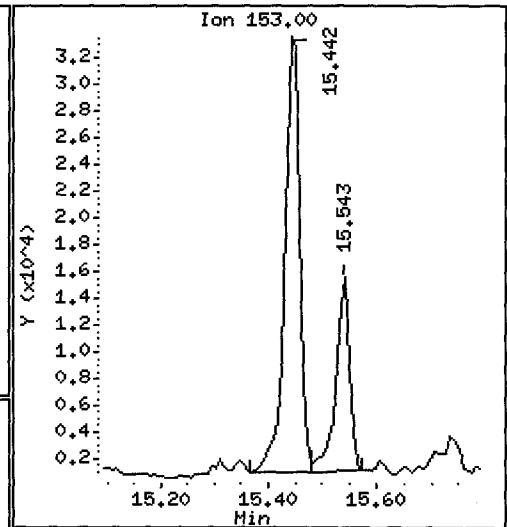
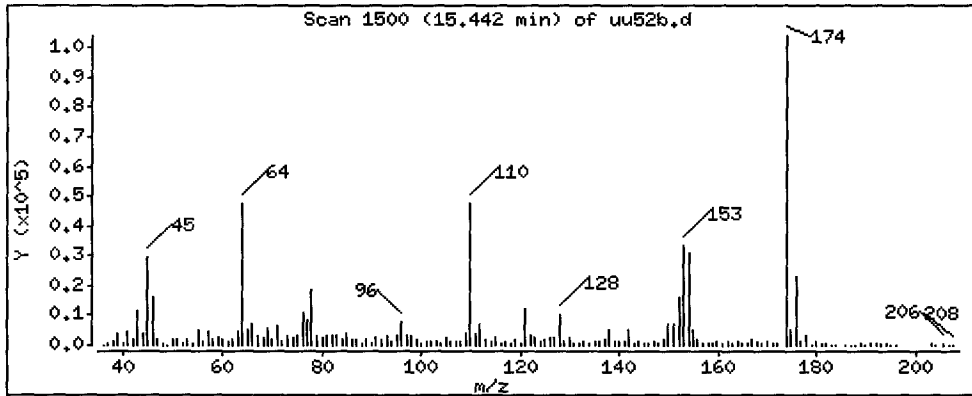
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 153.5 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

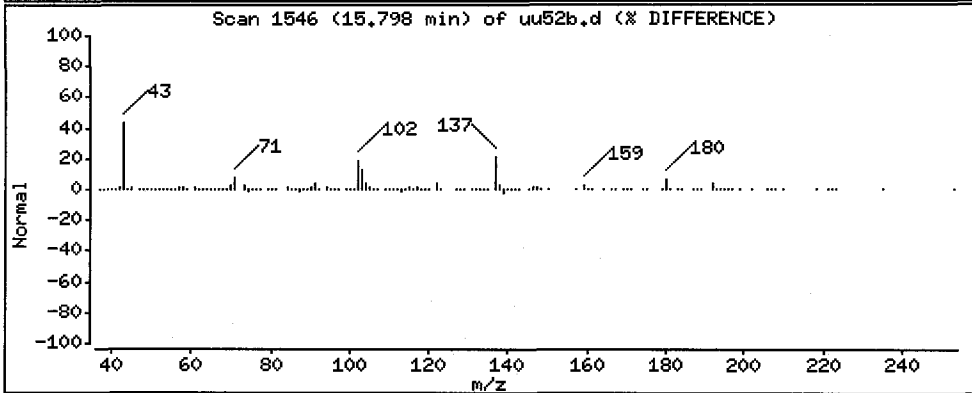
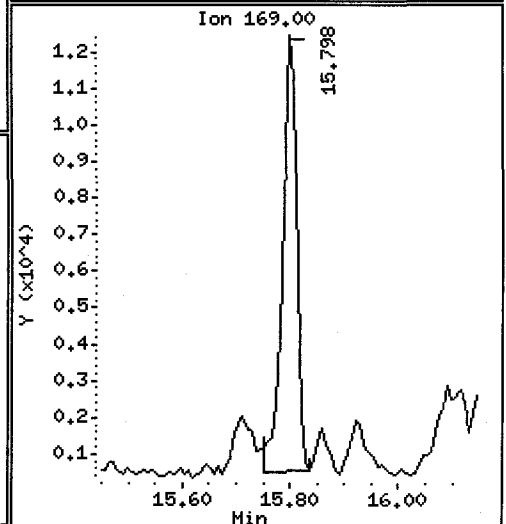
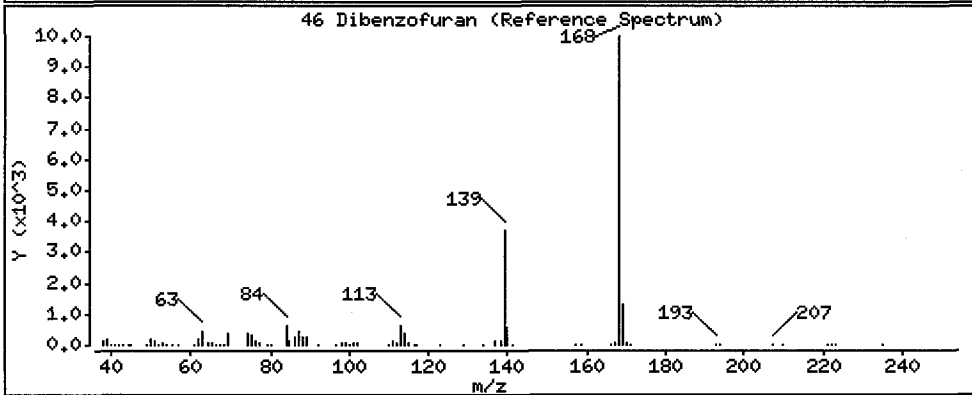
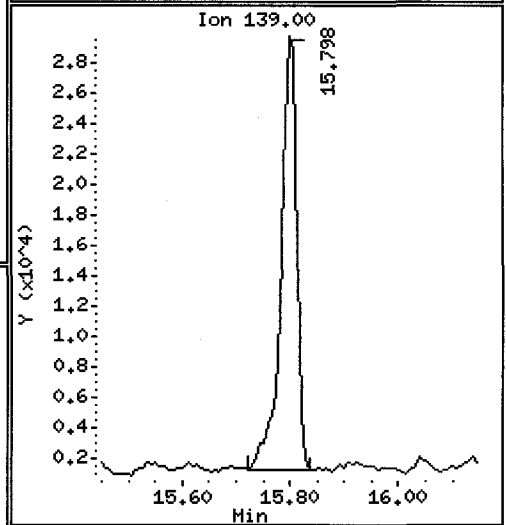
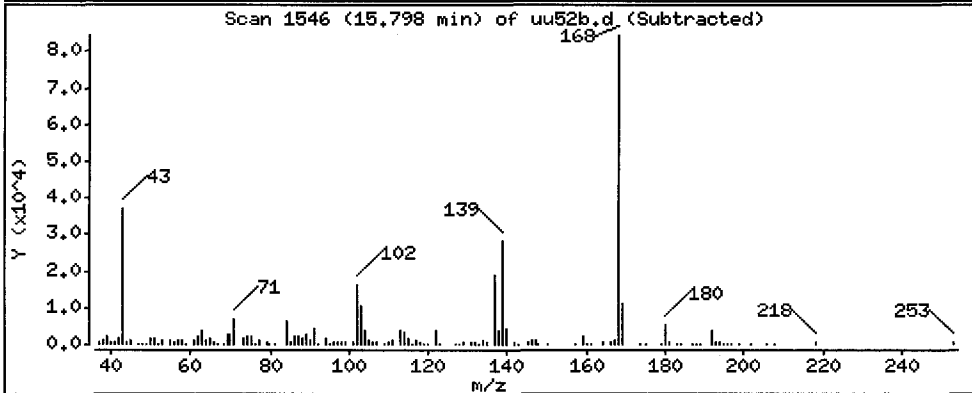
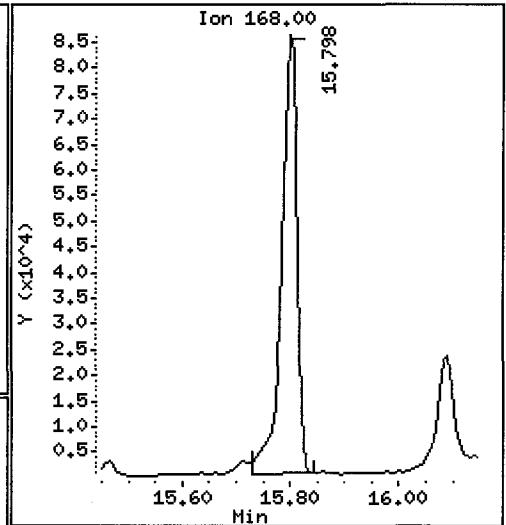
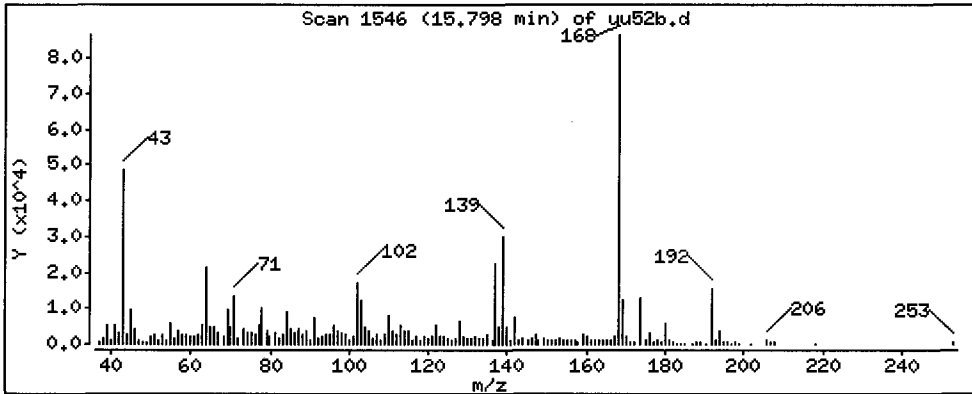
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 280.6 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

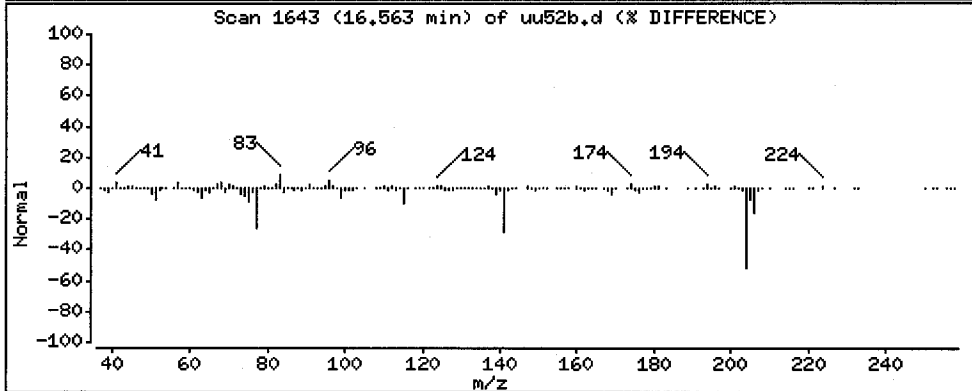
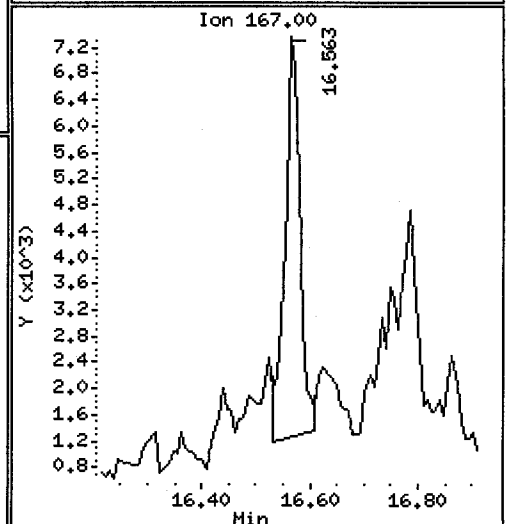
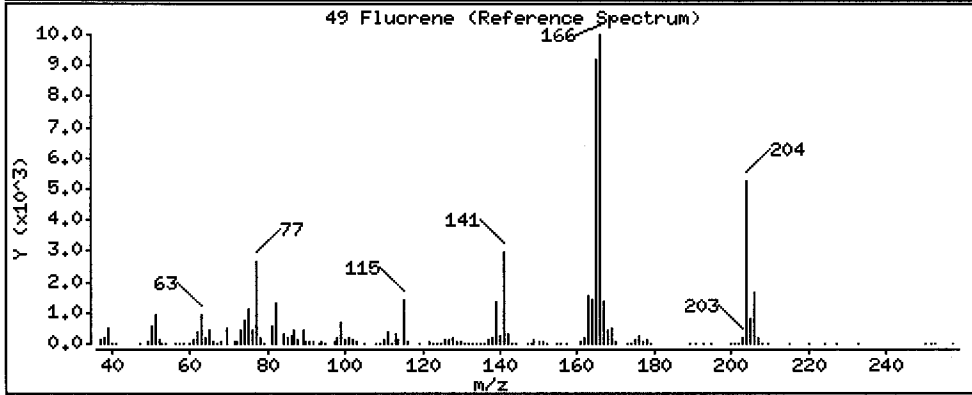
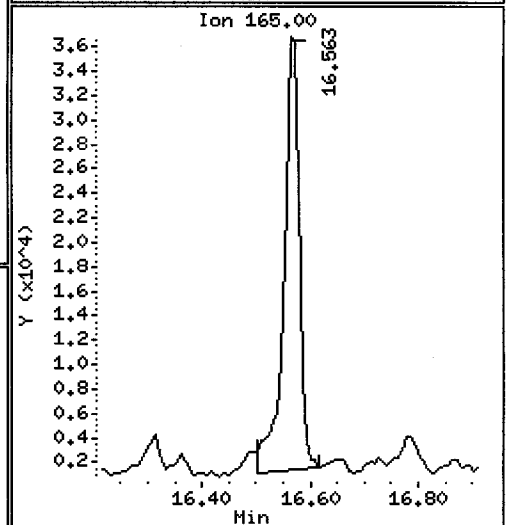
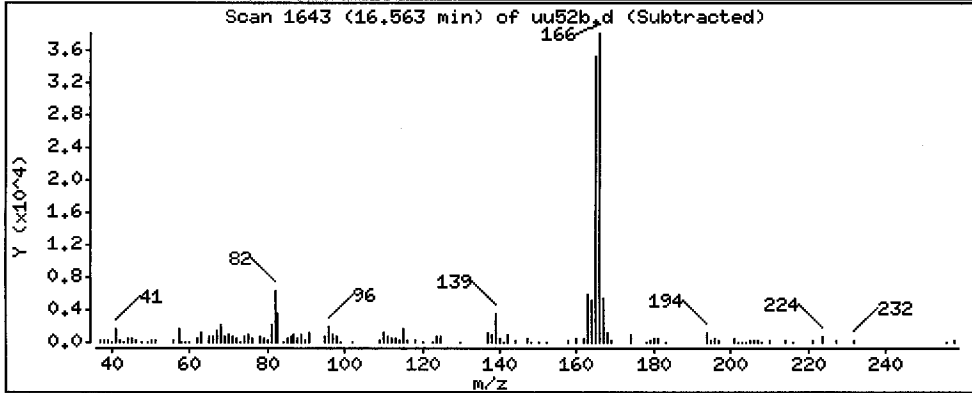
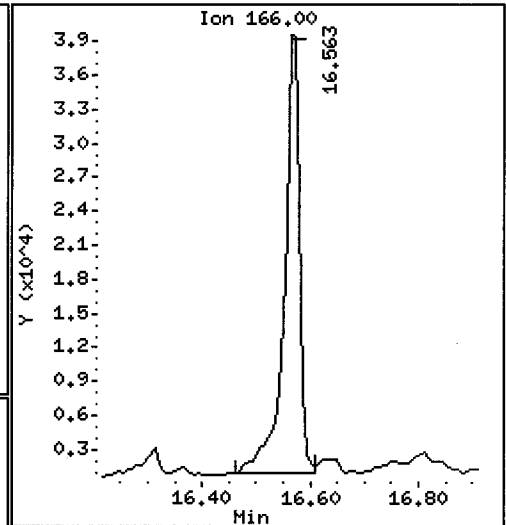
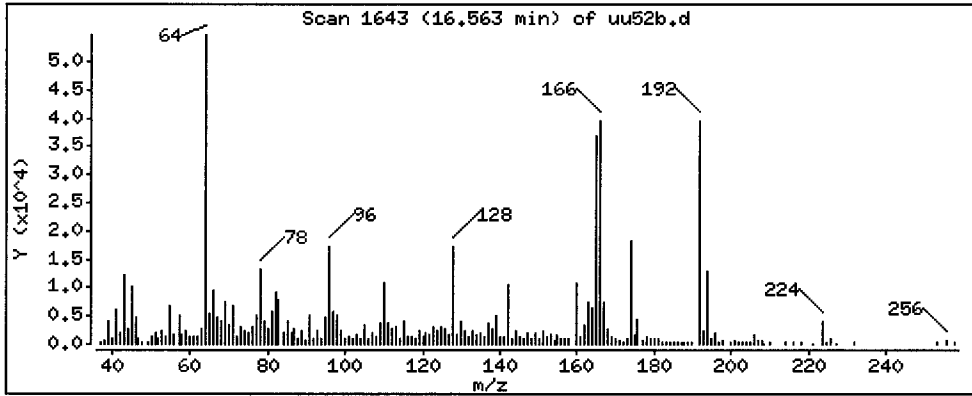
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 173.5 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

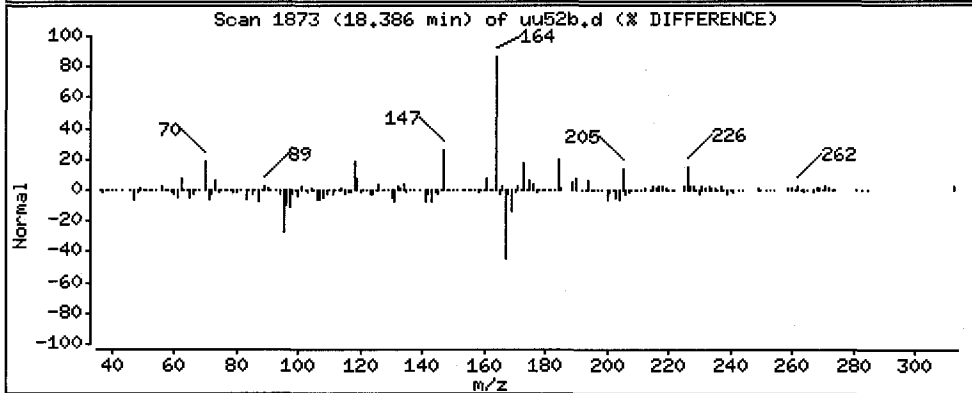
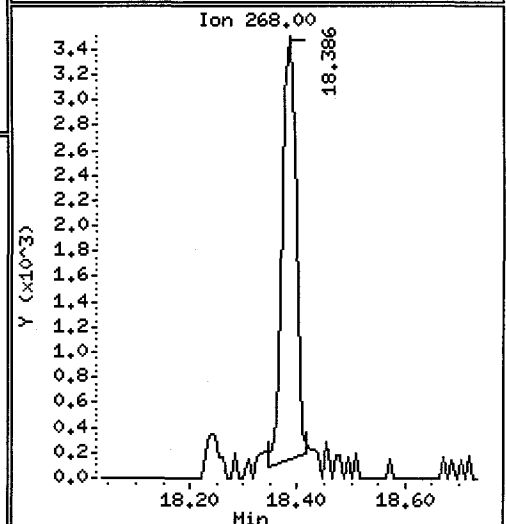
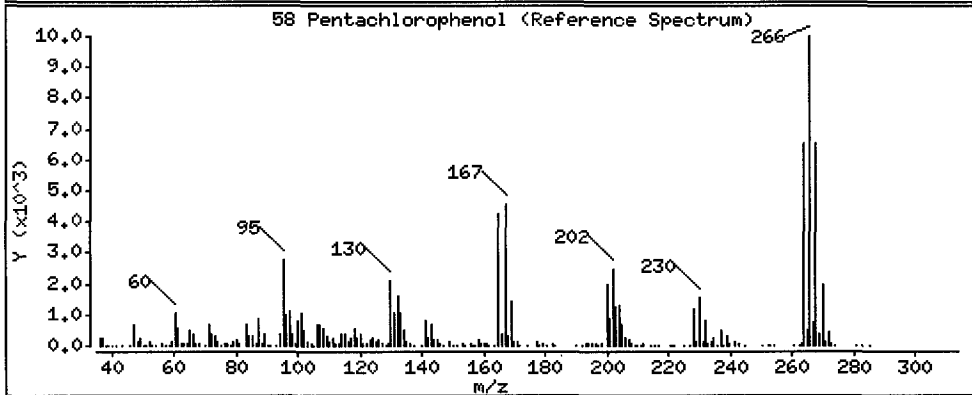
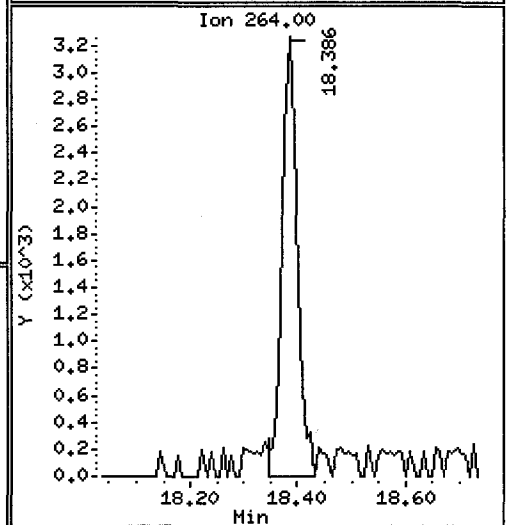
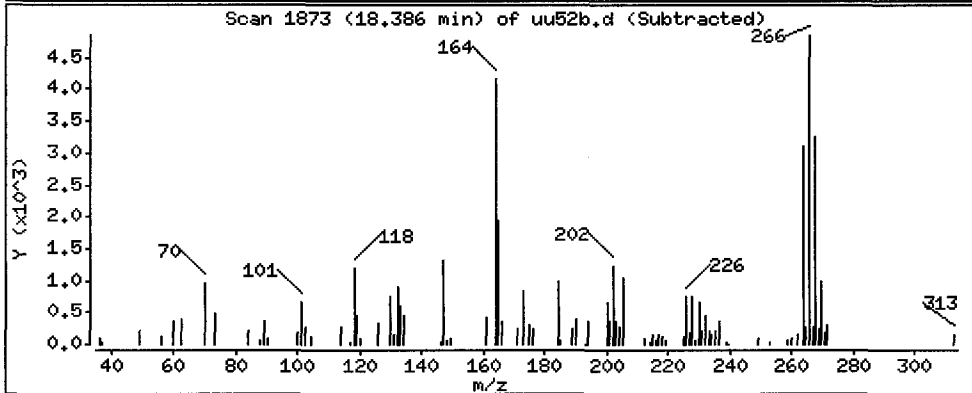
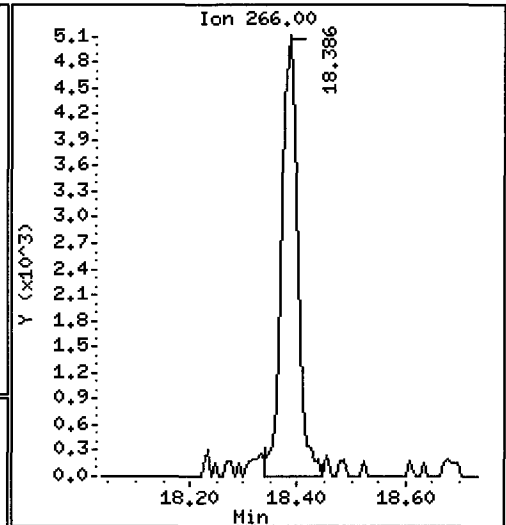
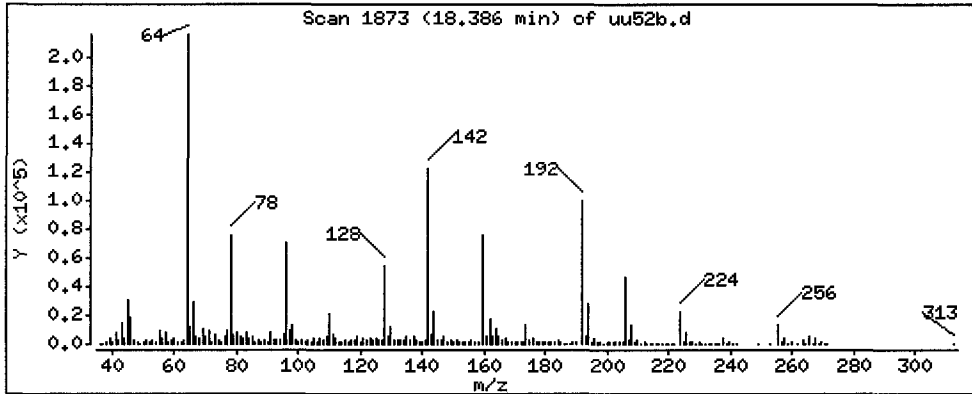
Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 157.5 ug/kg

Handwritten signature



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

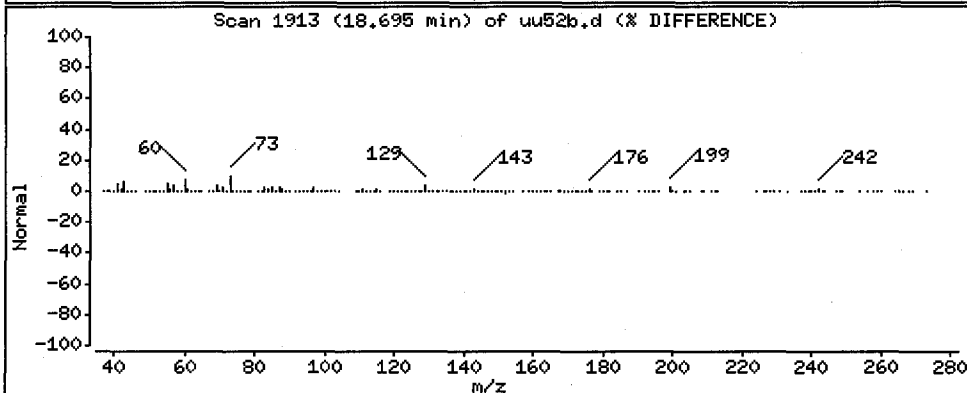
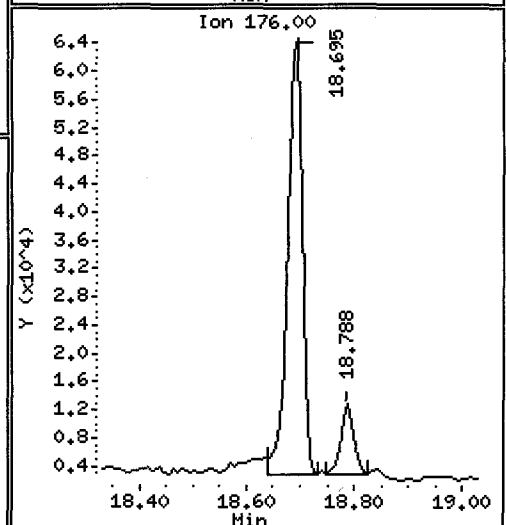
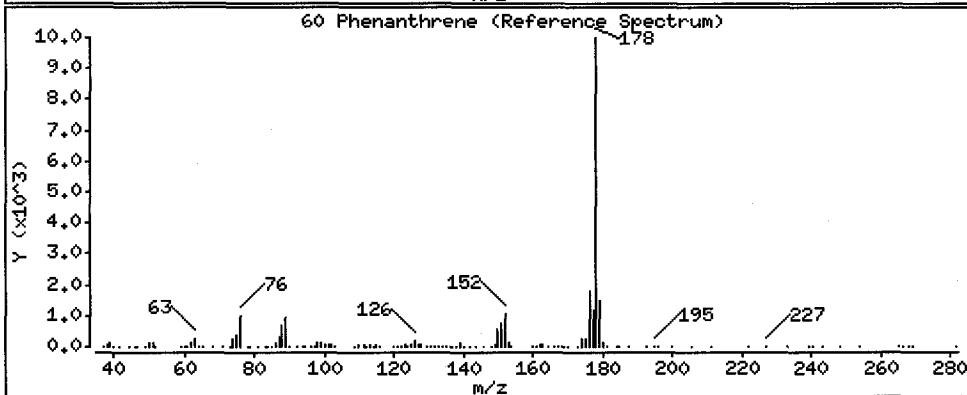
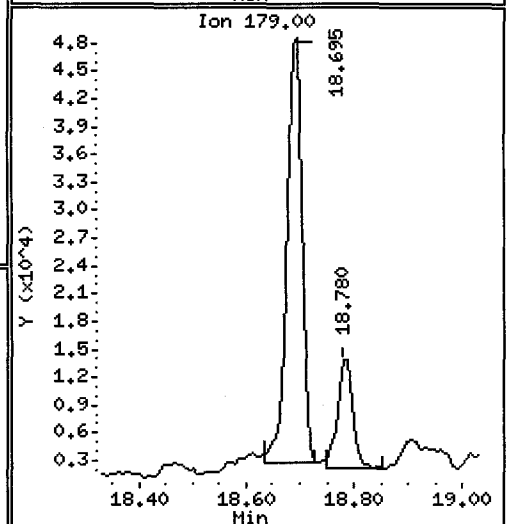
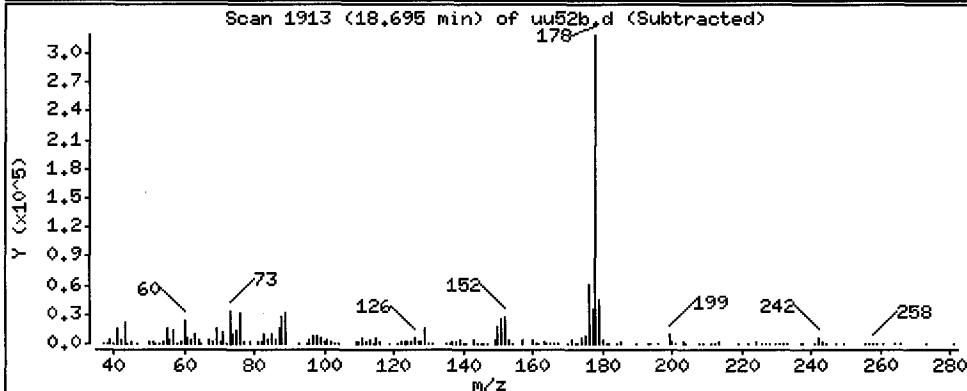
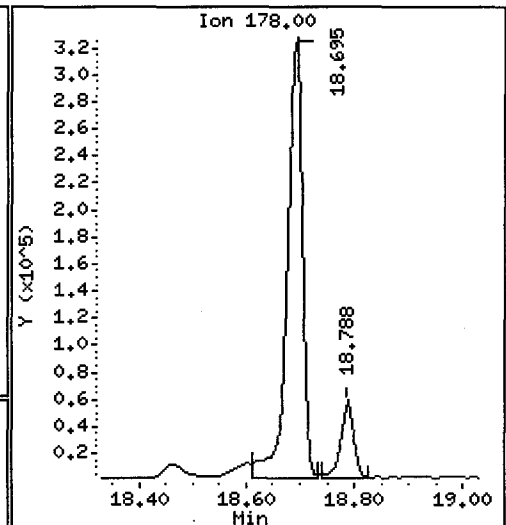
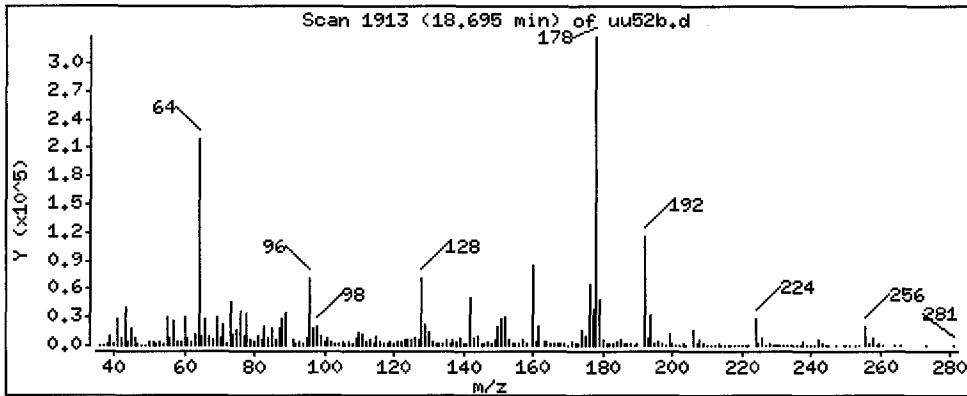
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 1168 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

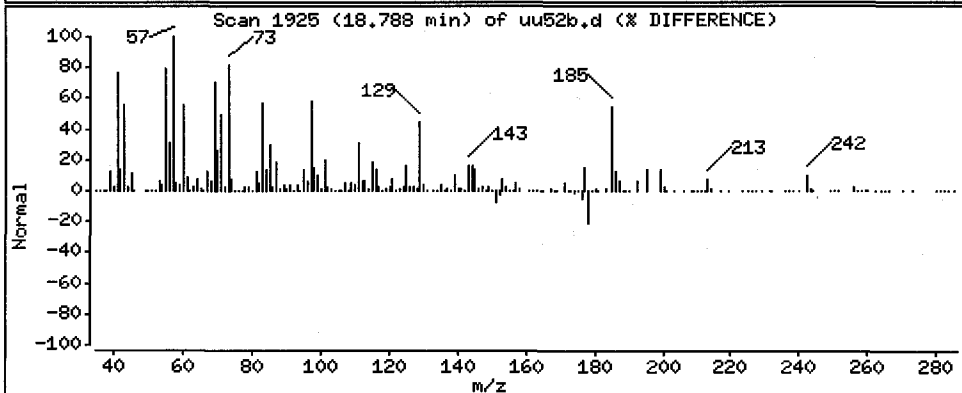
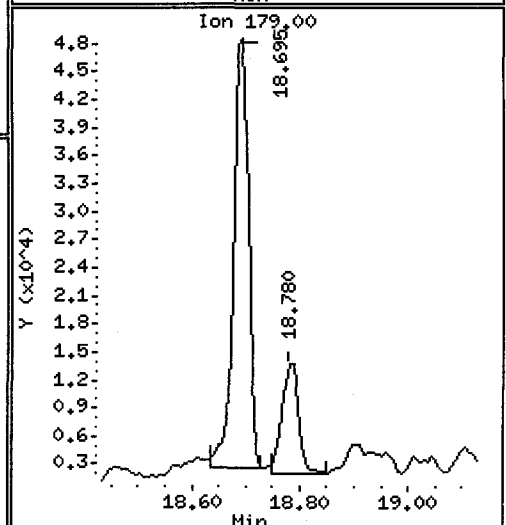
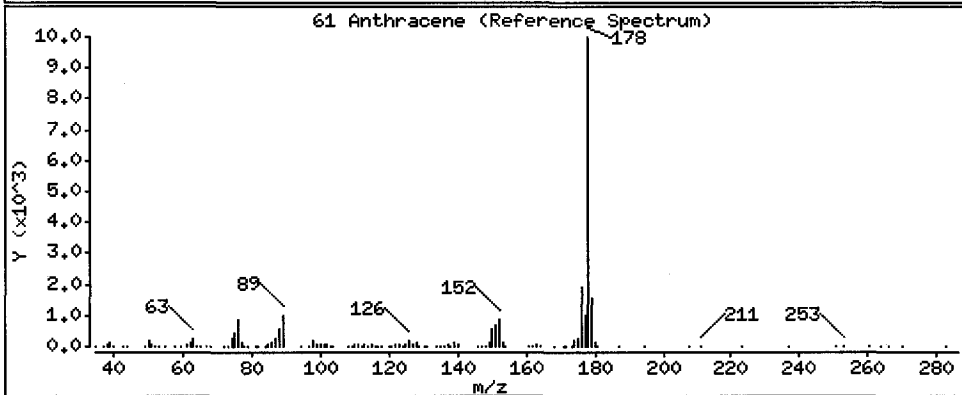
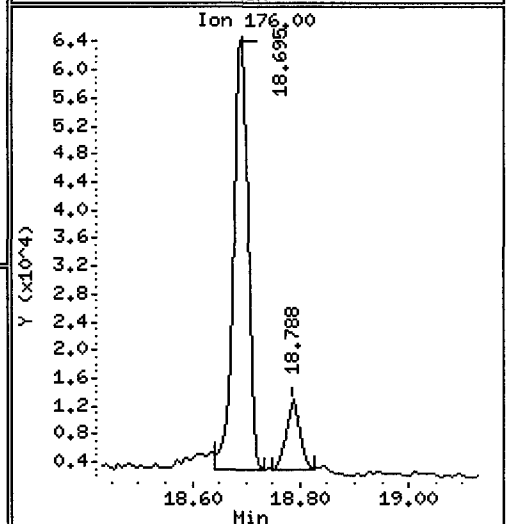
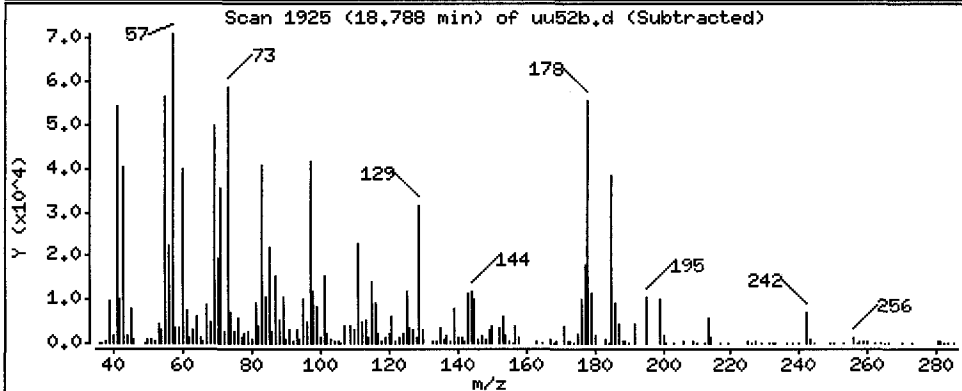
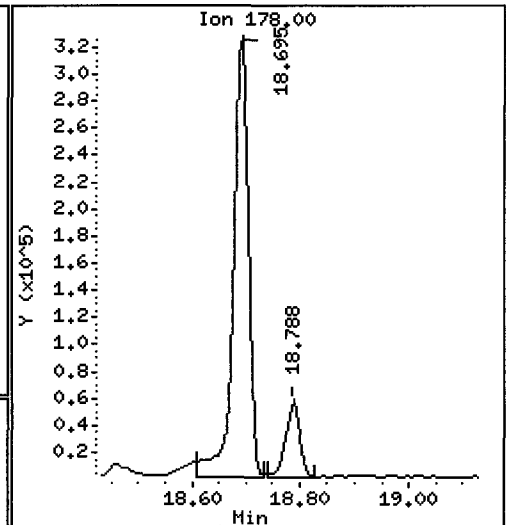
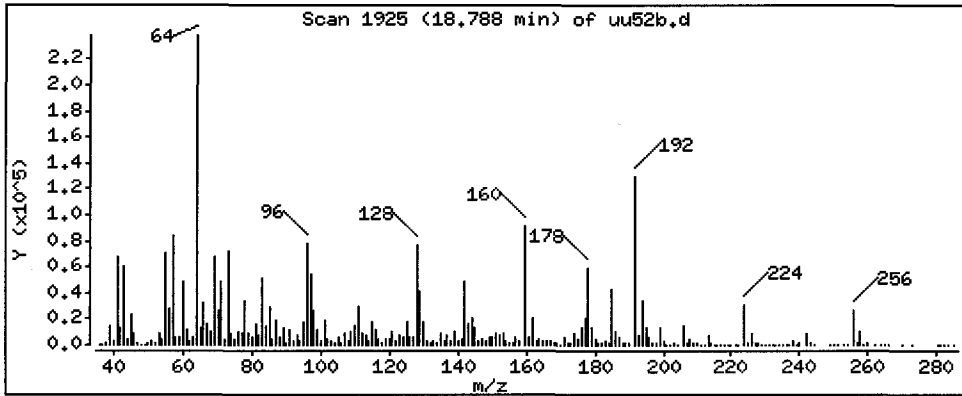
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 177.4 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

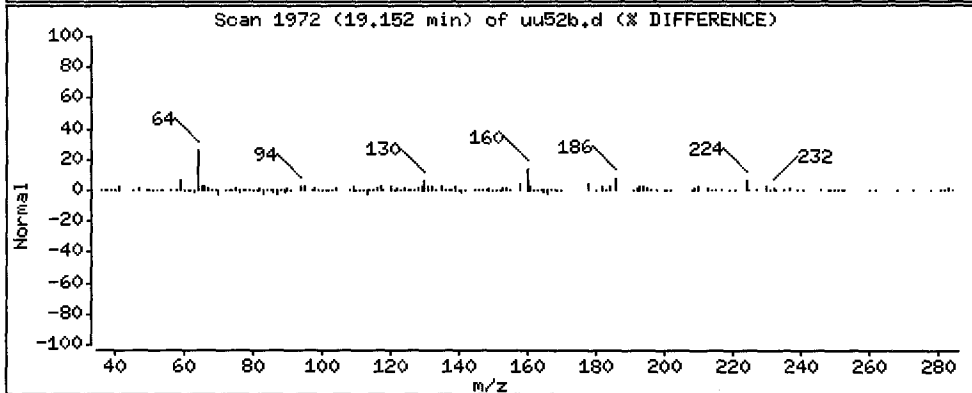
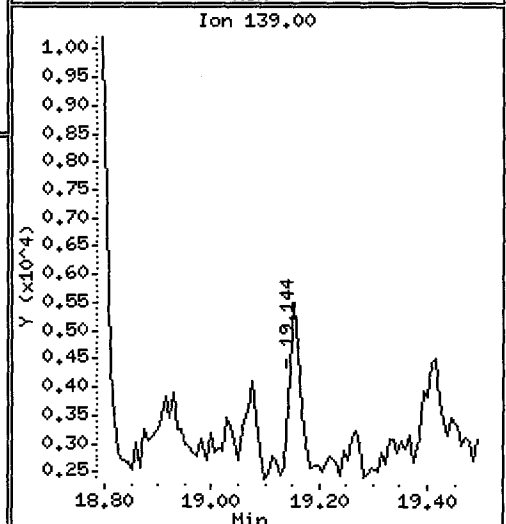
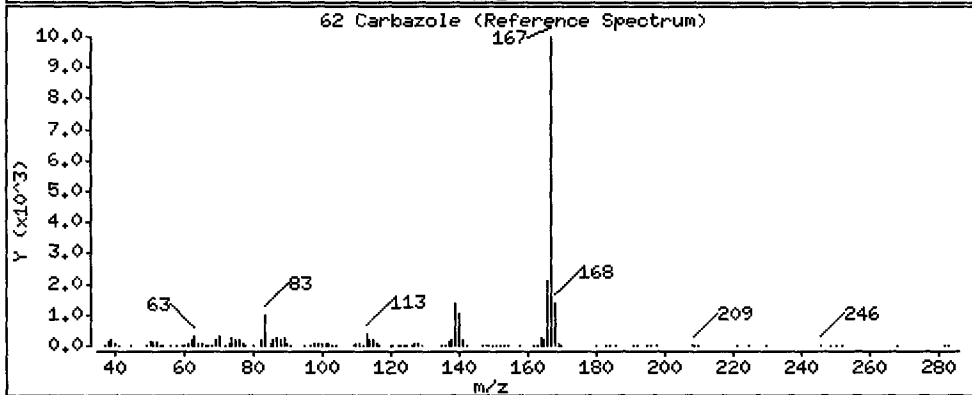
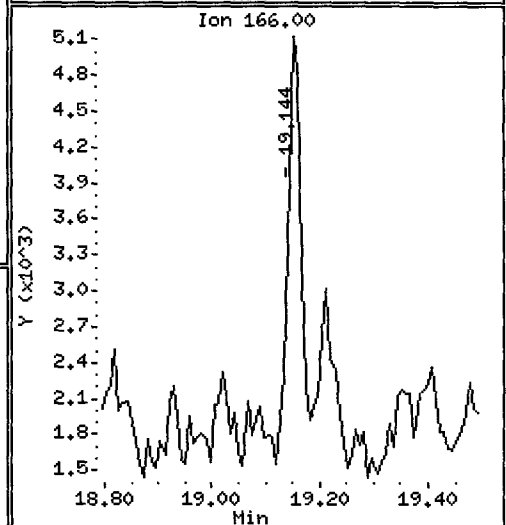
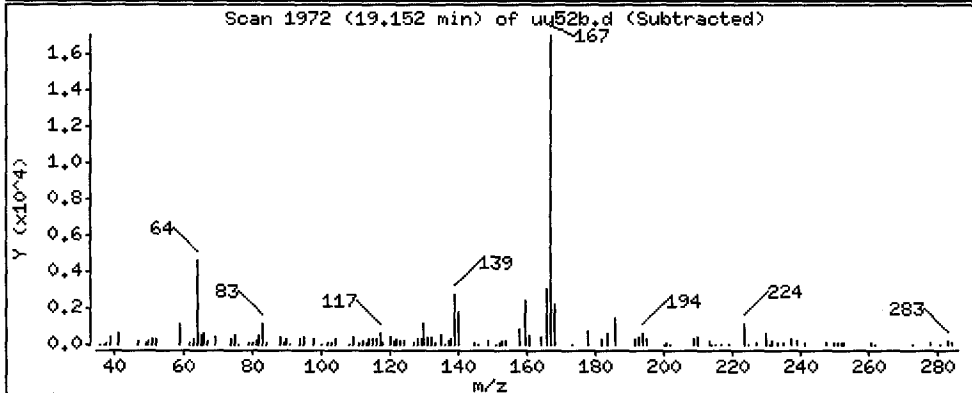
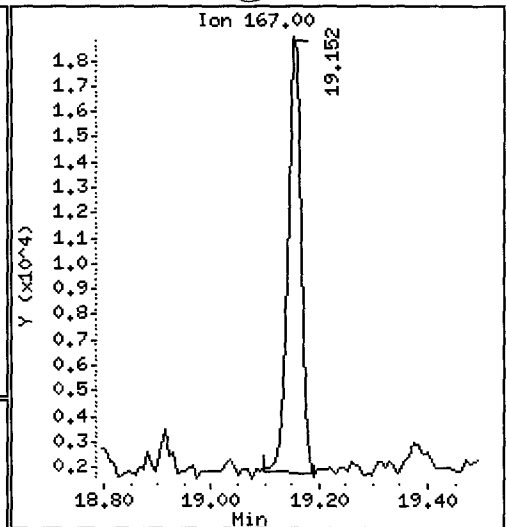
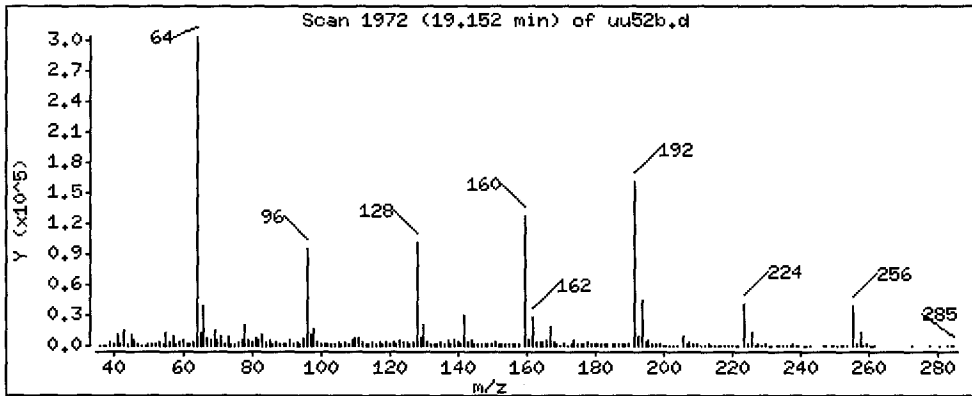
Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 57.24 ug/kg

YZ



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

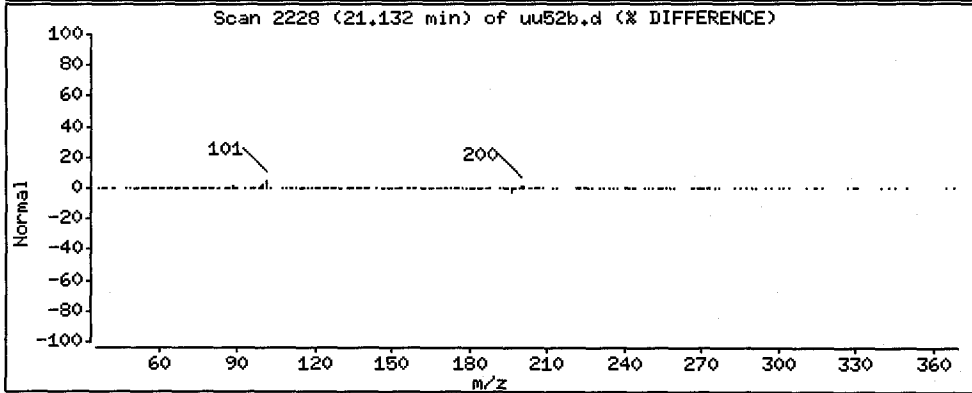
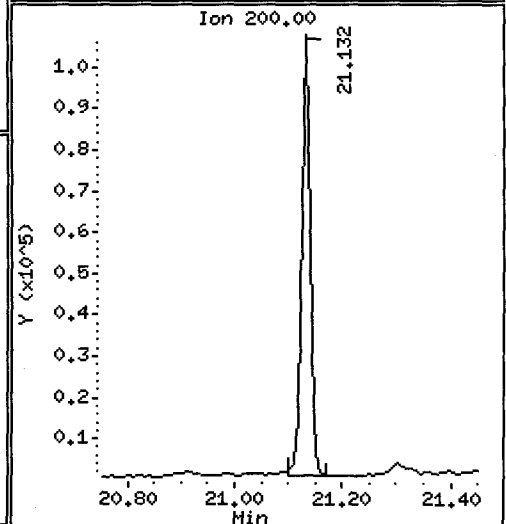
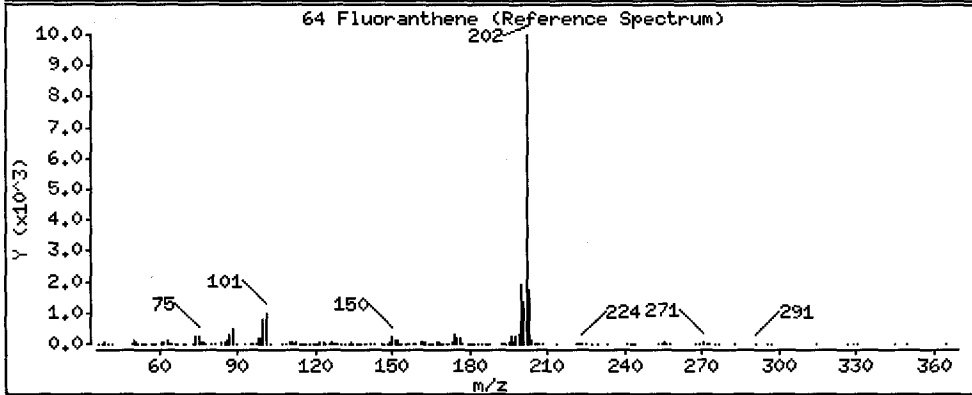
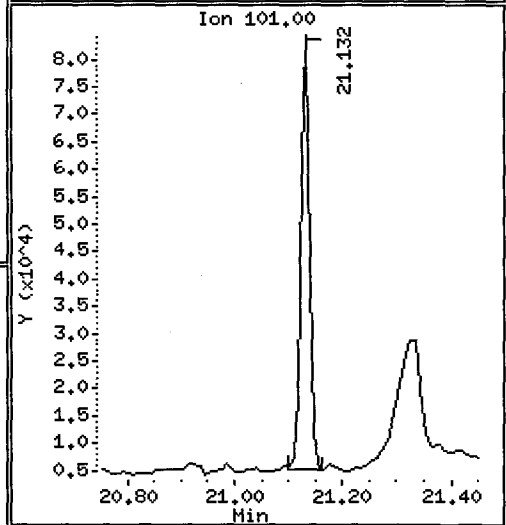
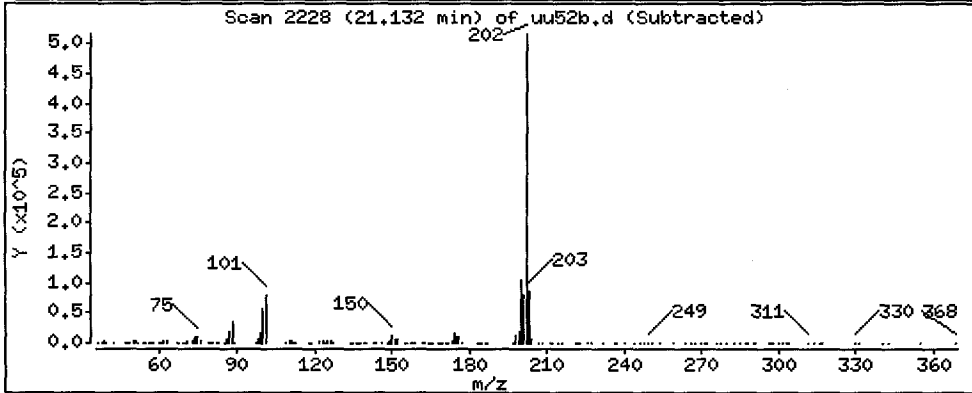
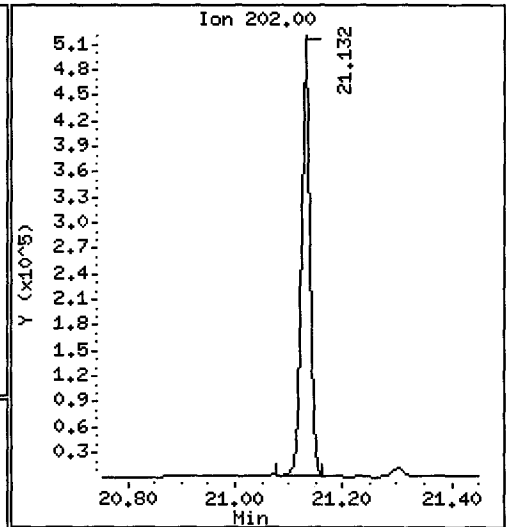
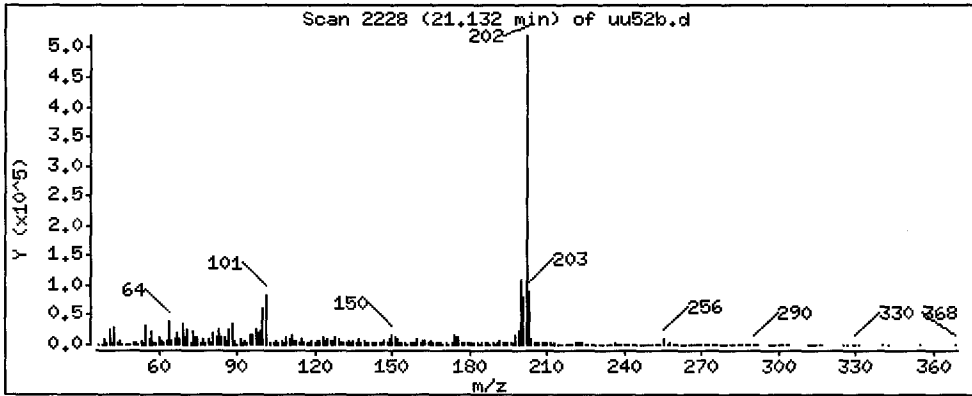
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 972.1 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

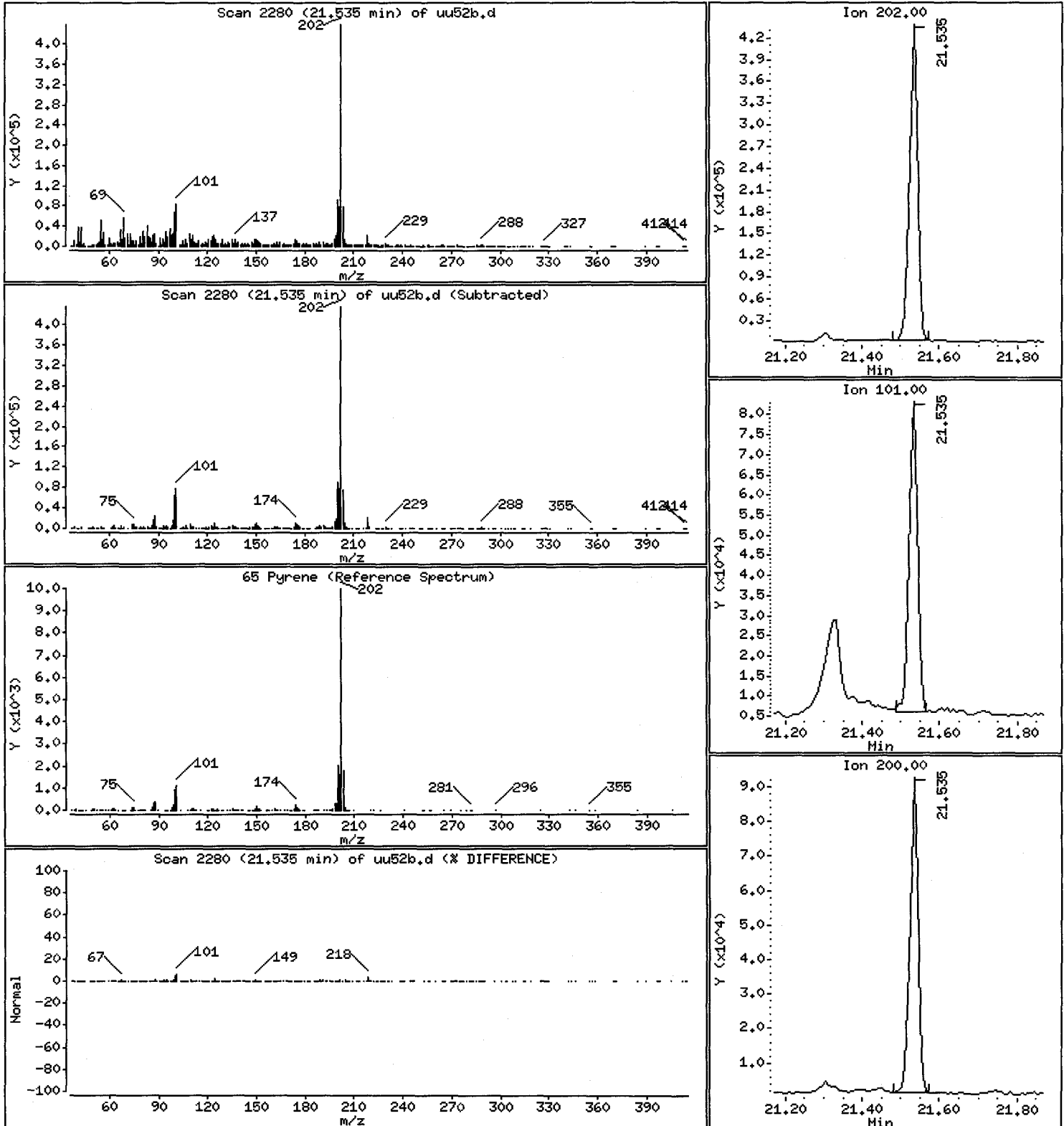
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 908.3 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

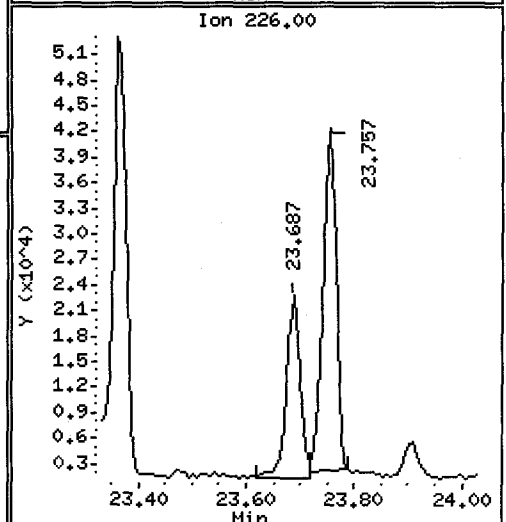
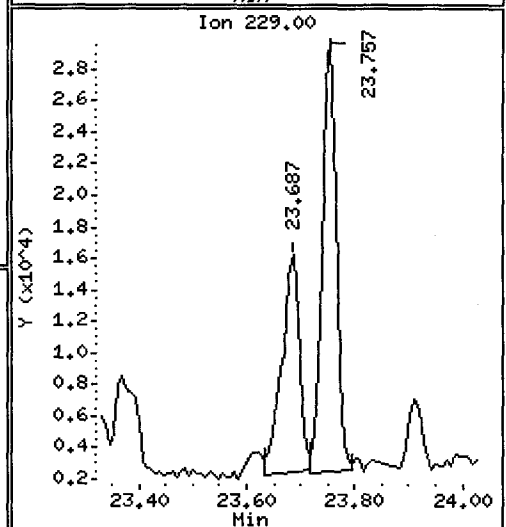
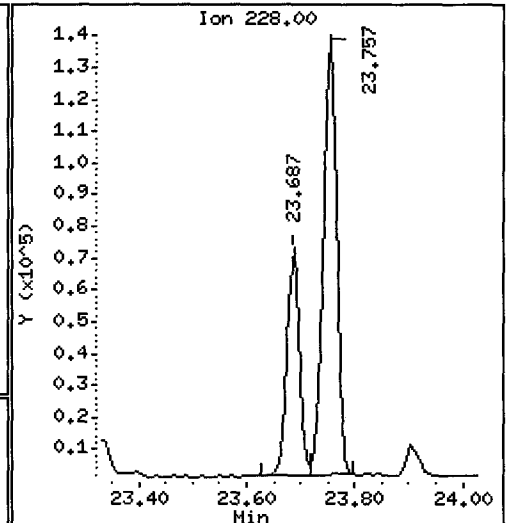
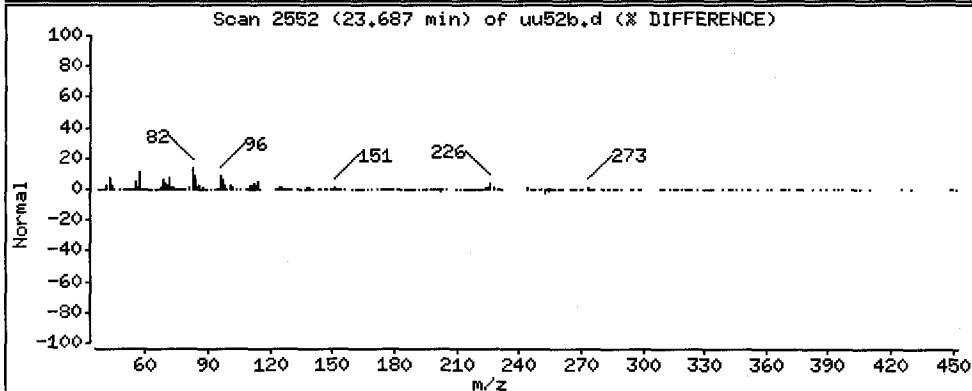
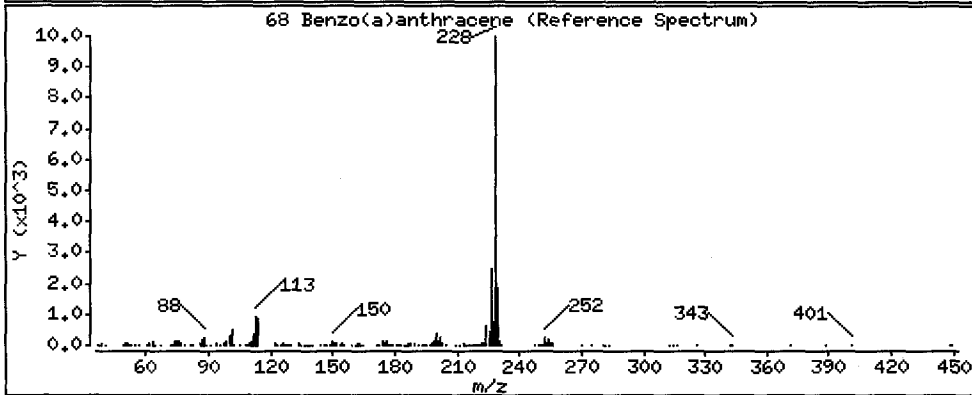
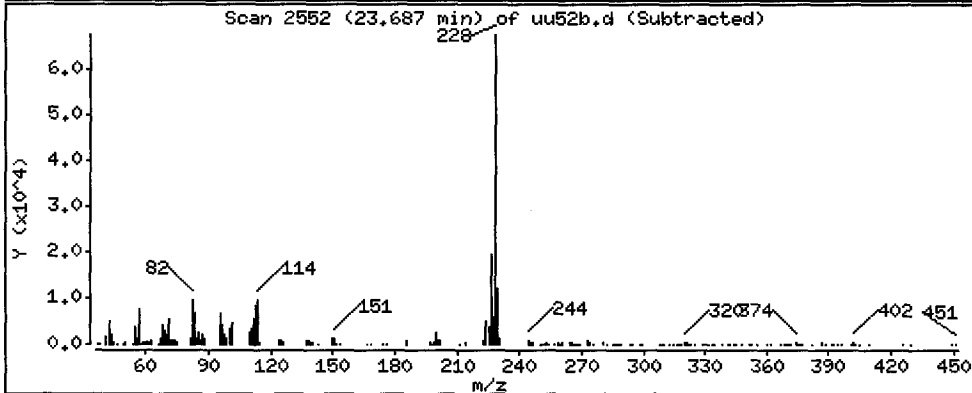
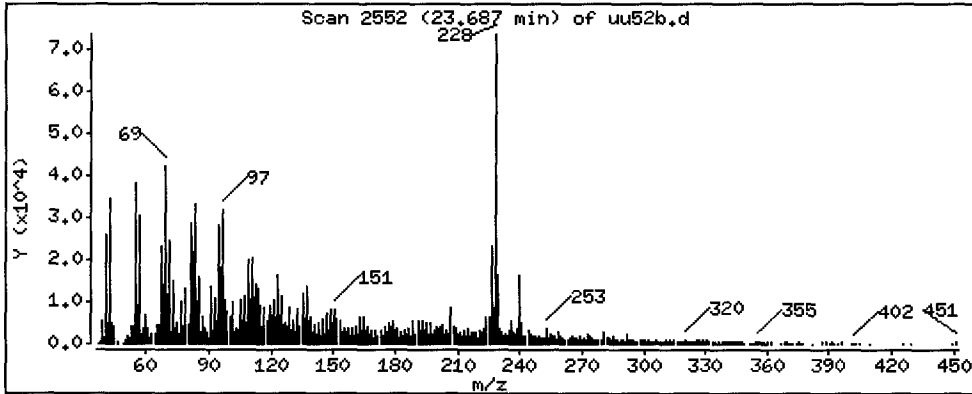
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 173.1 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

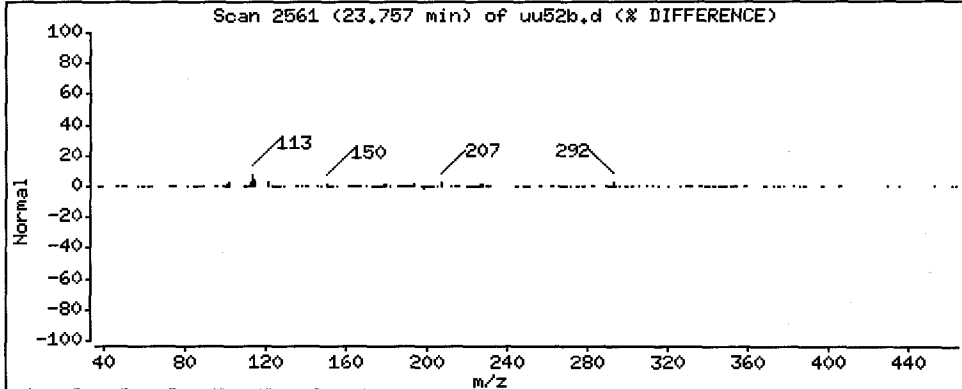
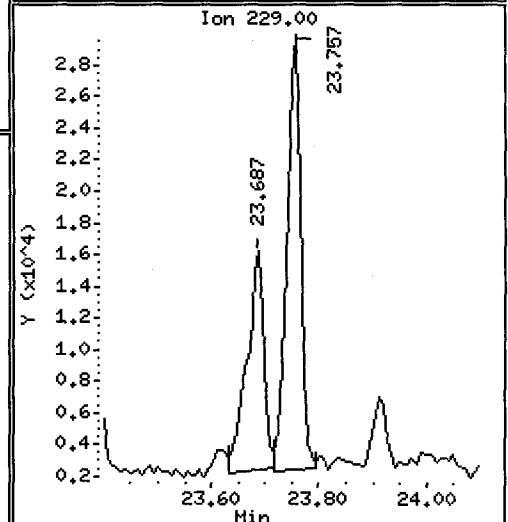
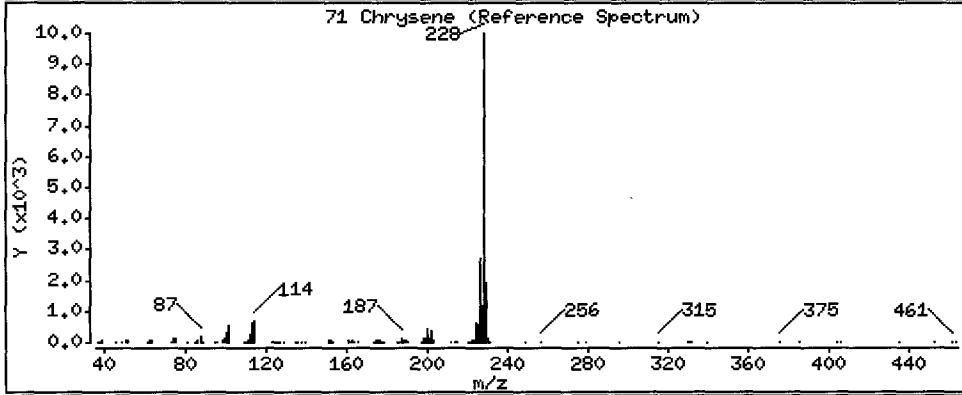
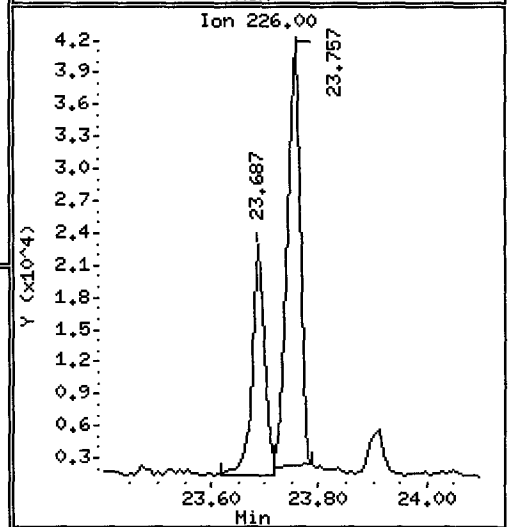
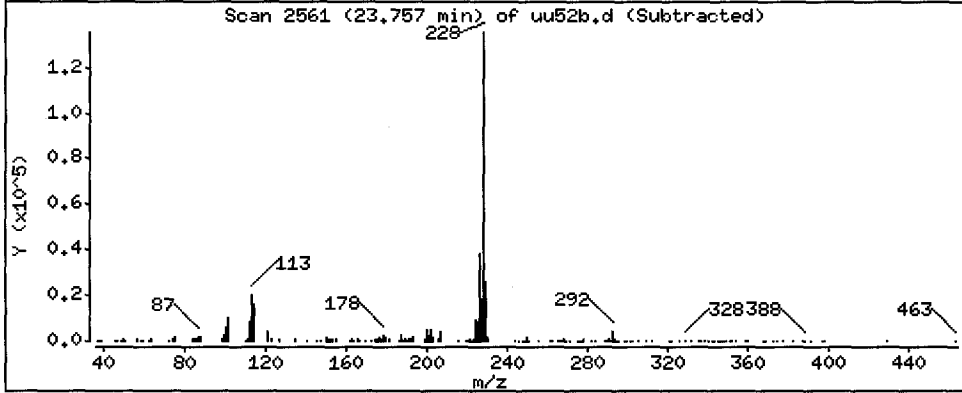
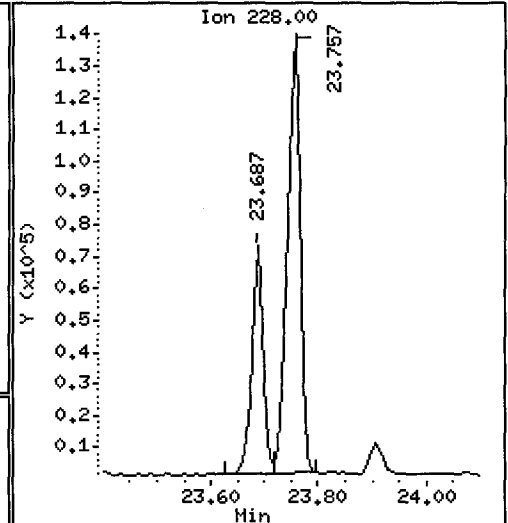
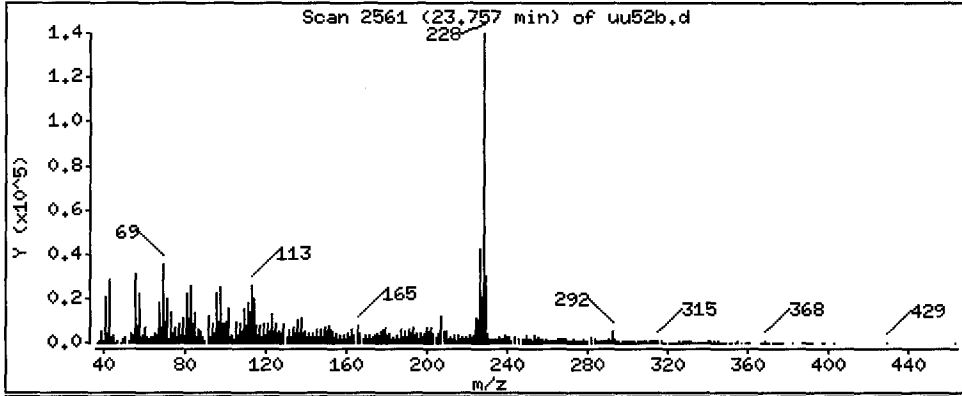
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 396.9 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

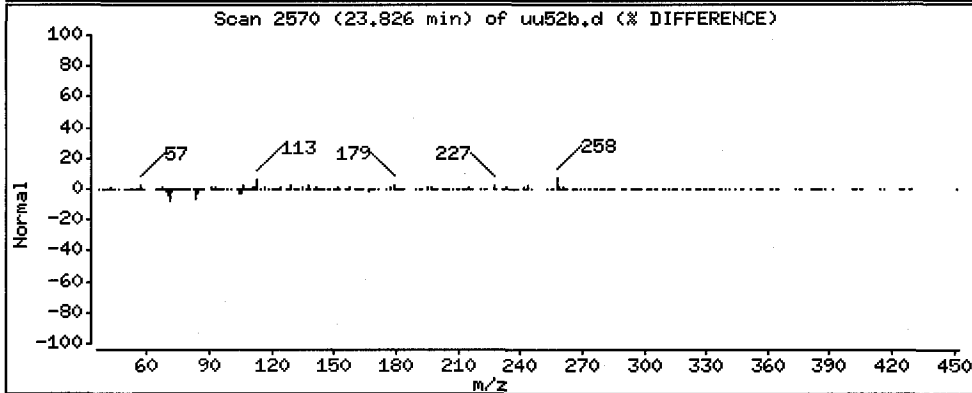
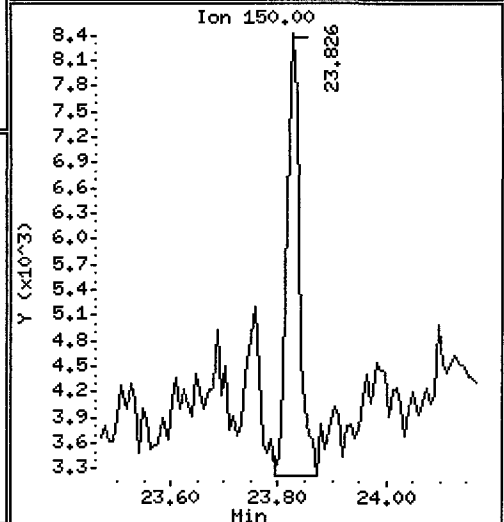
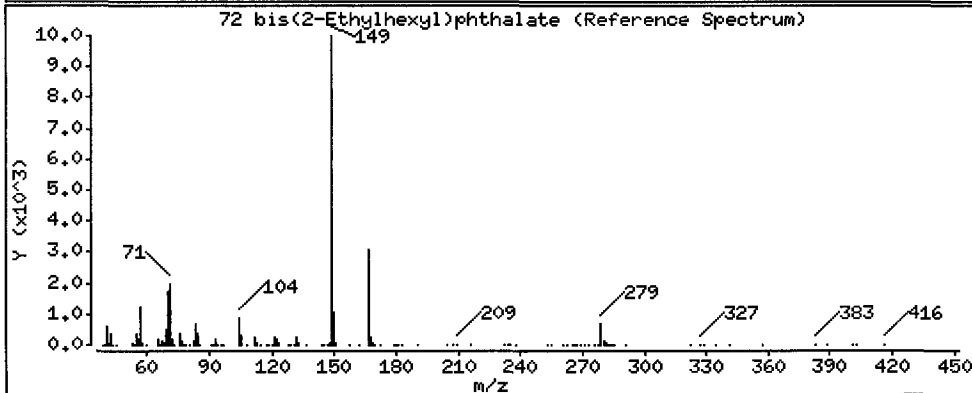
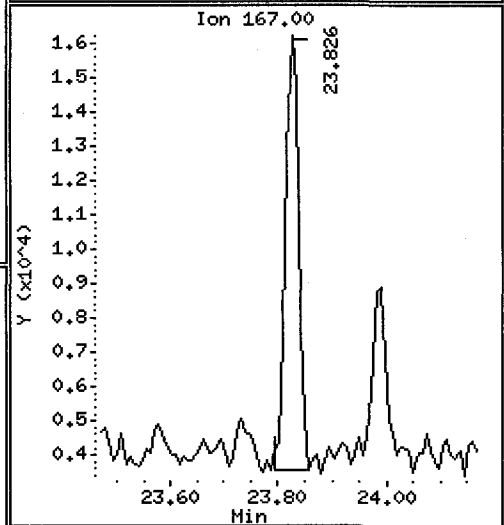
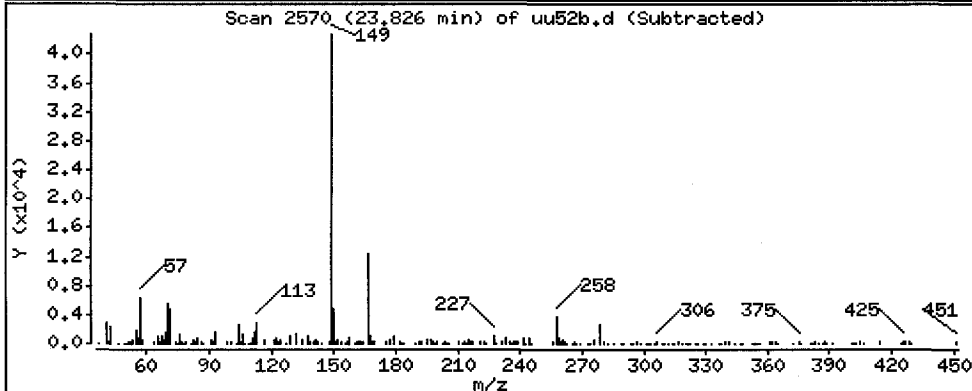
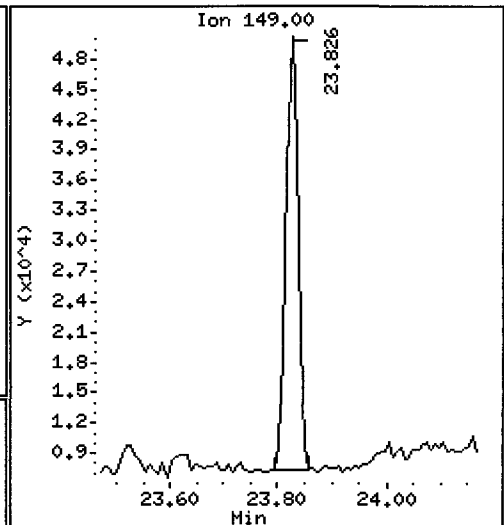
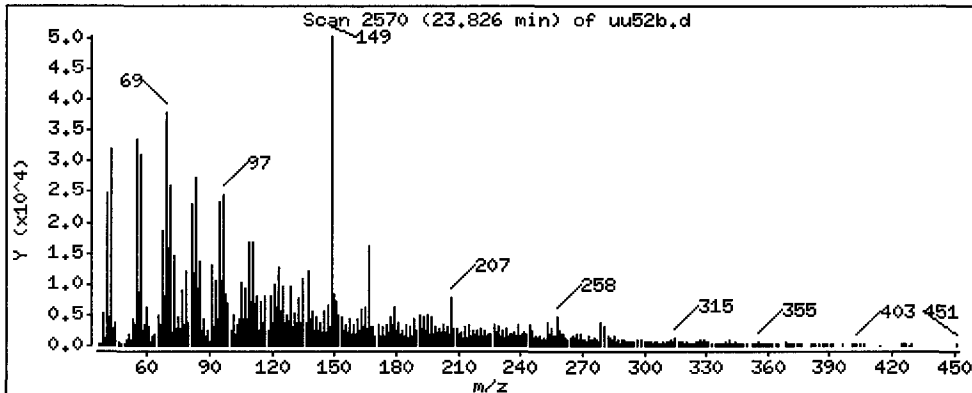
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

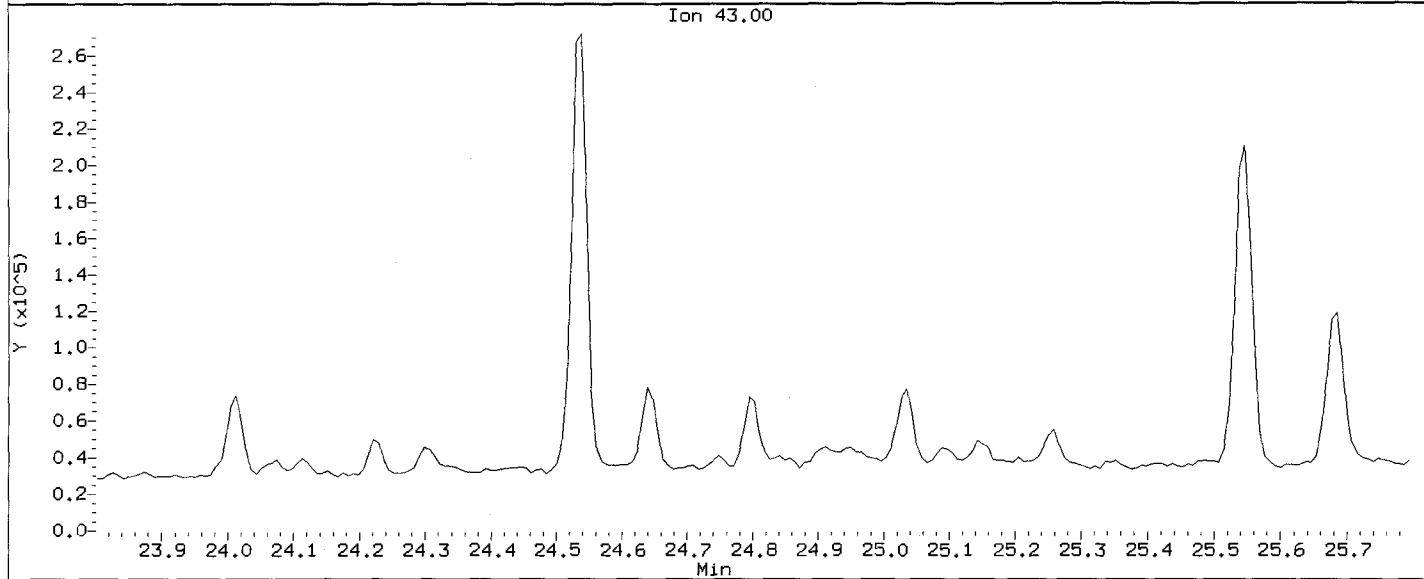
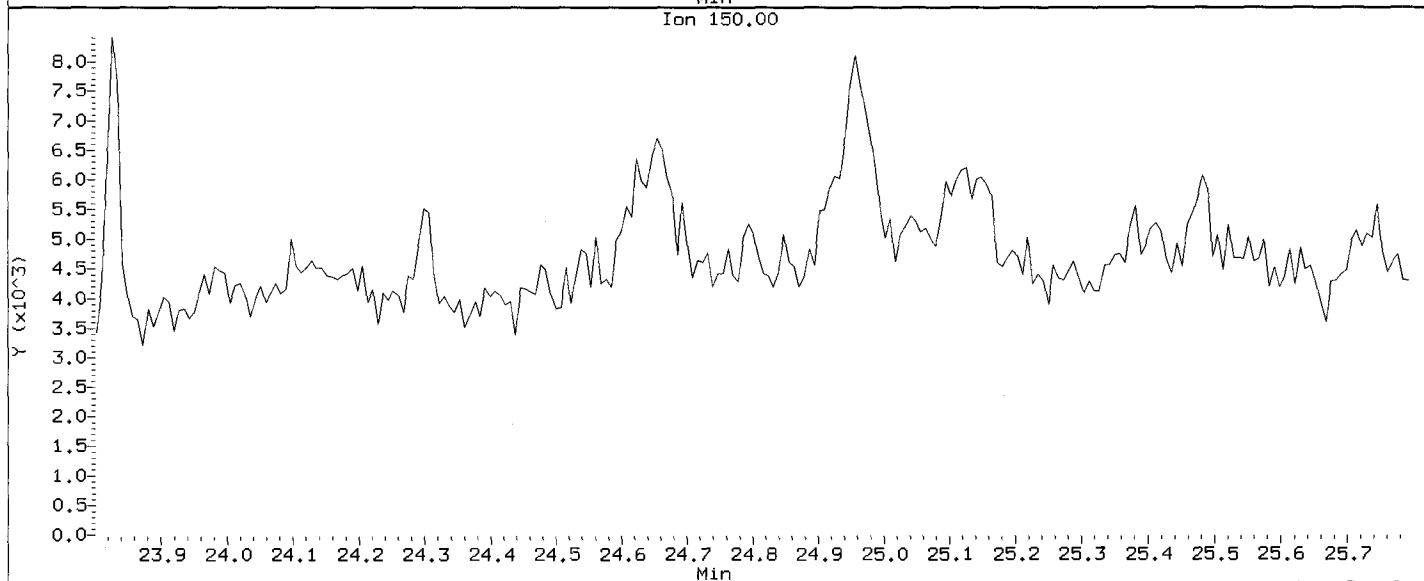
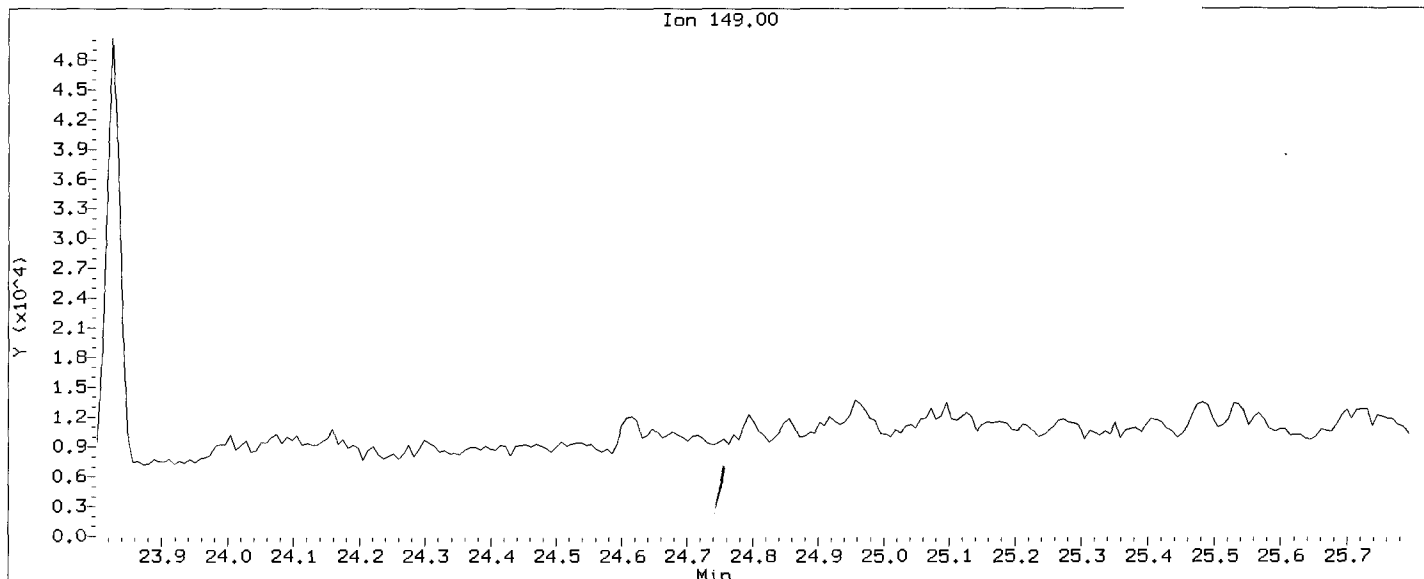
72 bis(2-Ethylhexyl)phthalate

Concentration: 123.4 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52b.d
Injection Date: 26-MAY-2012 17:48
Instrument: nt10.i
Client Sample ID: MS101-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

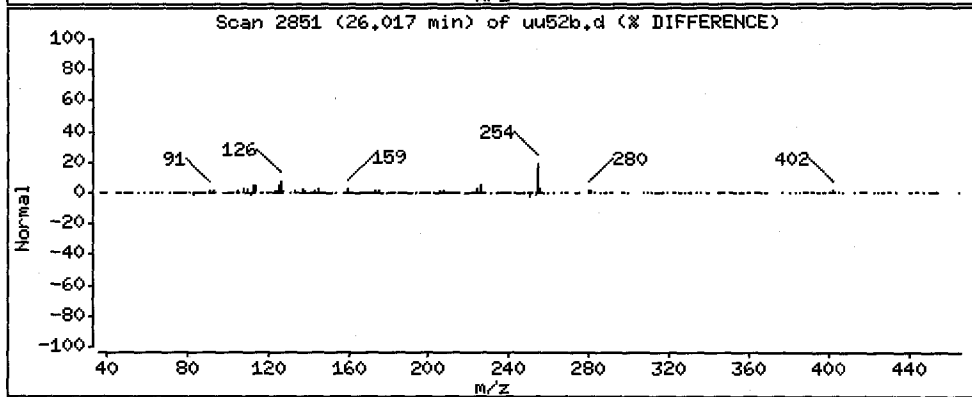
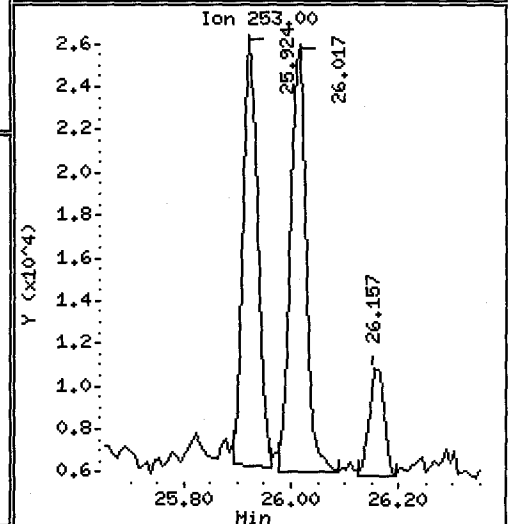
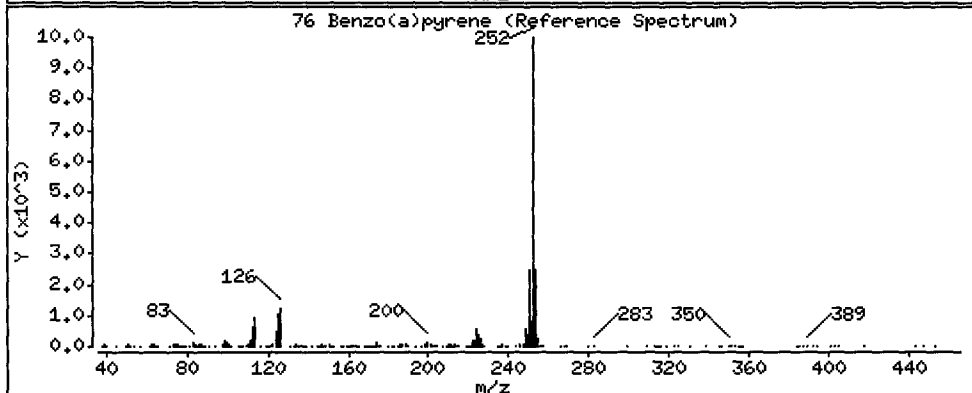
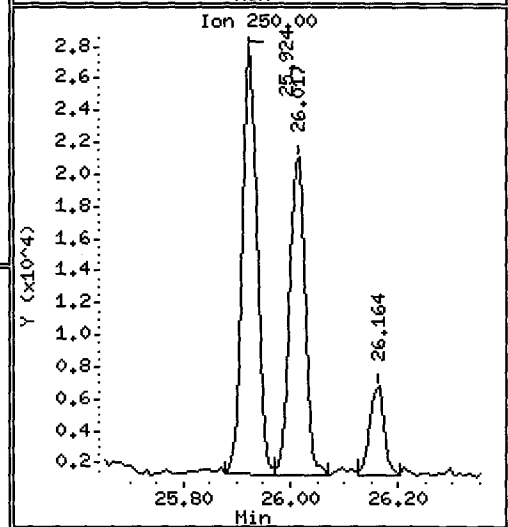
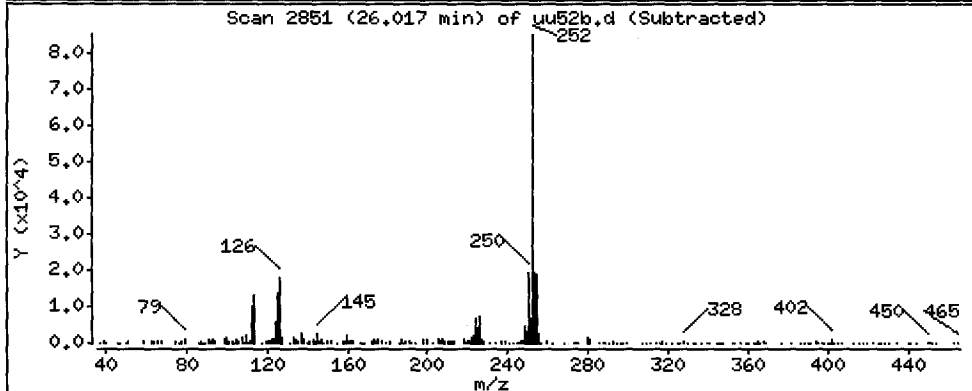
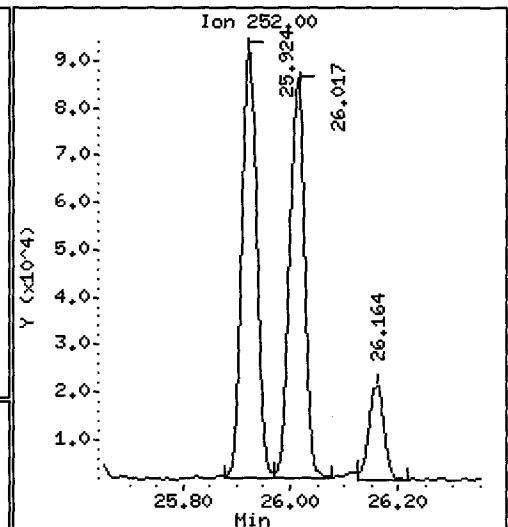
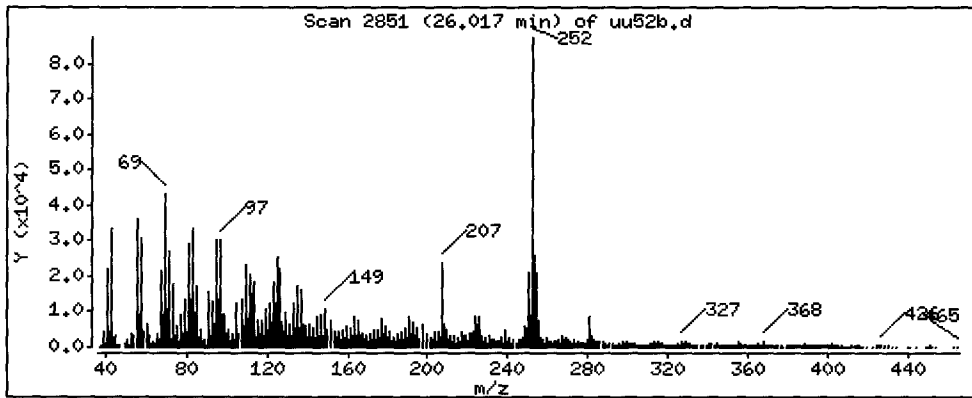
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 271.6 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

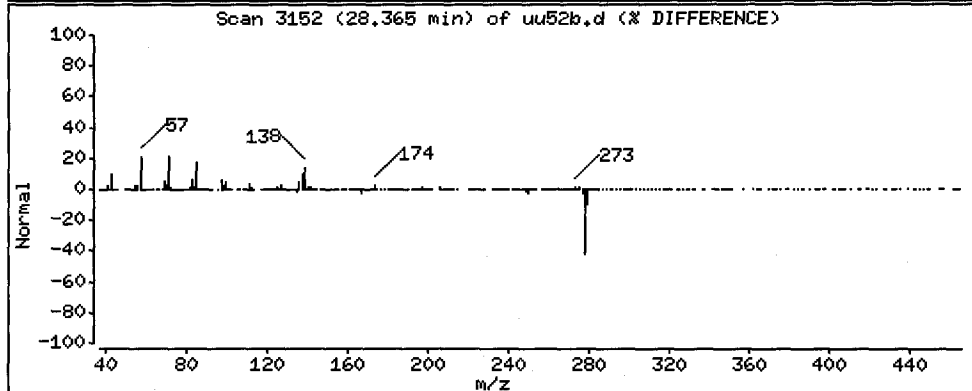
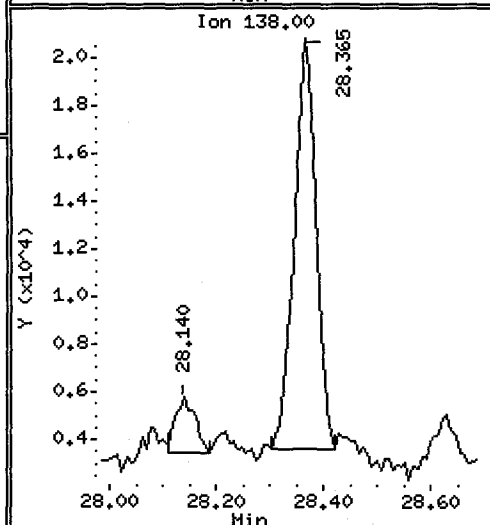
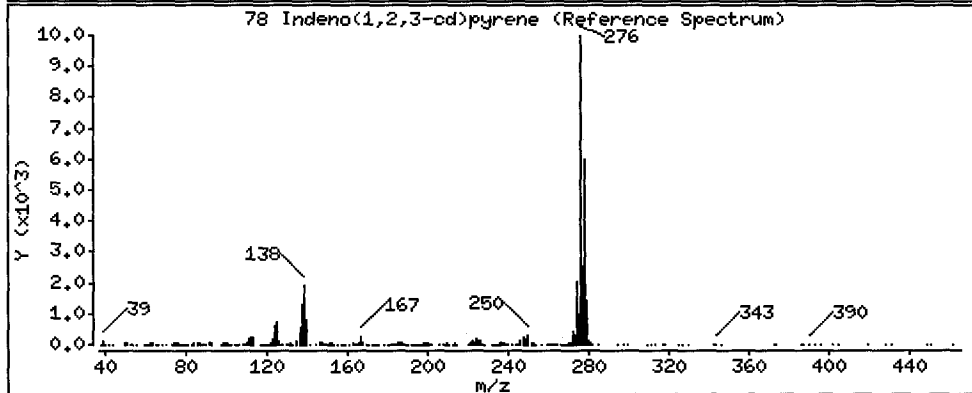
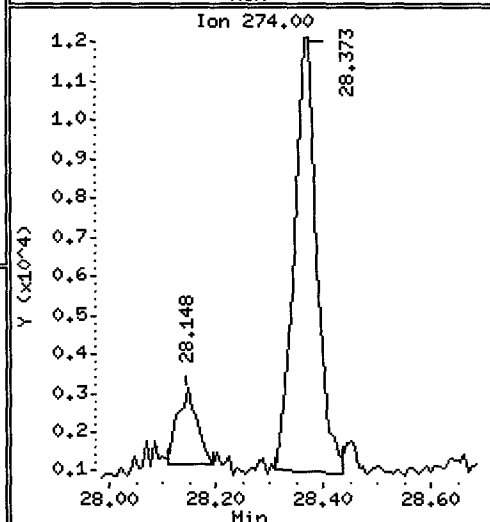
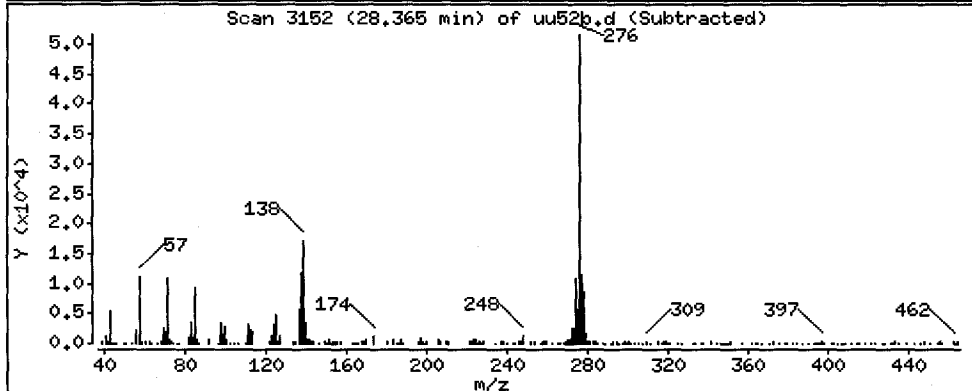
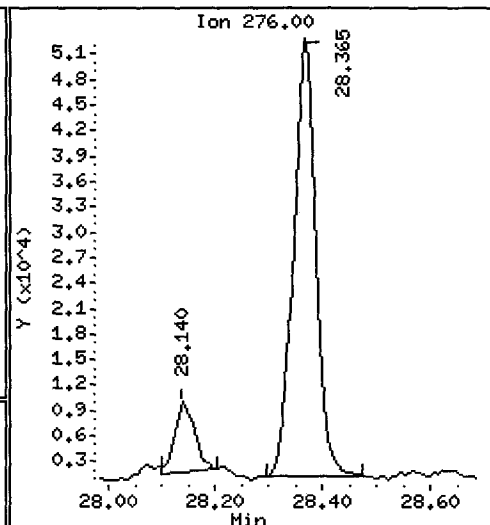
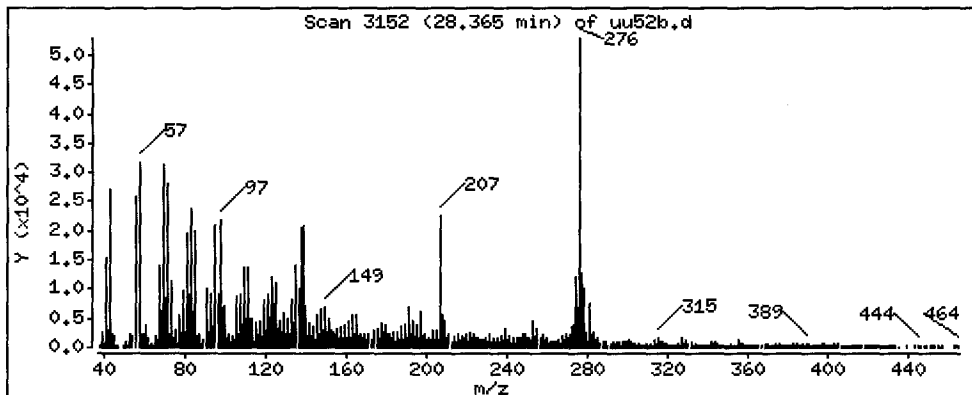
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 226.2 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

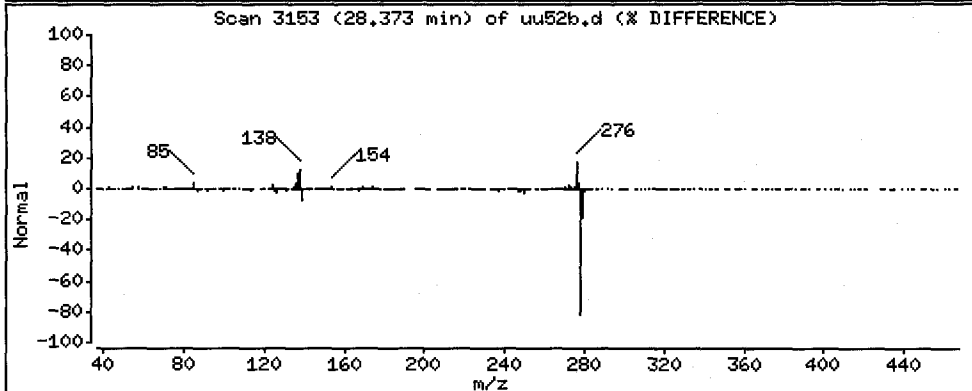
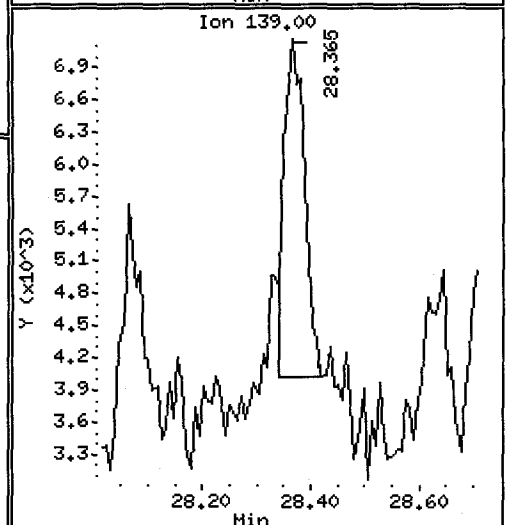
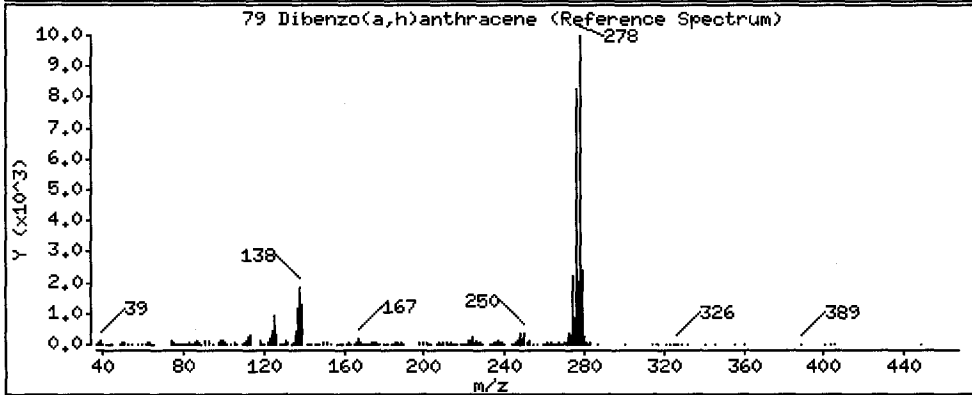
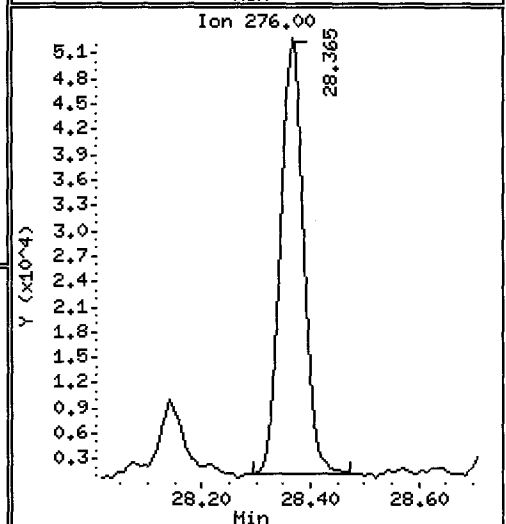
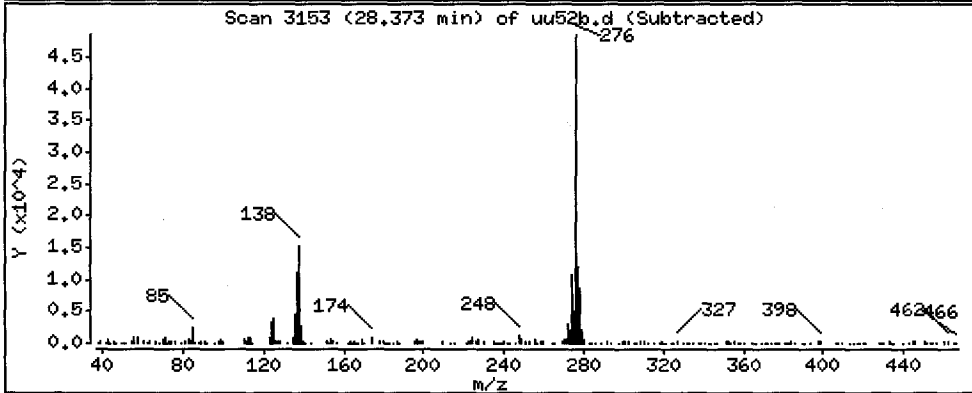
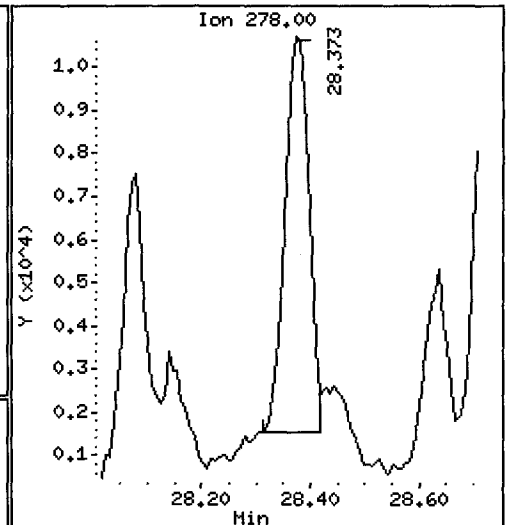
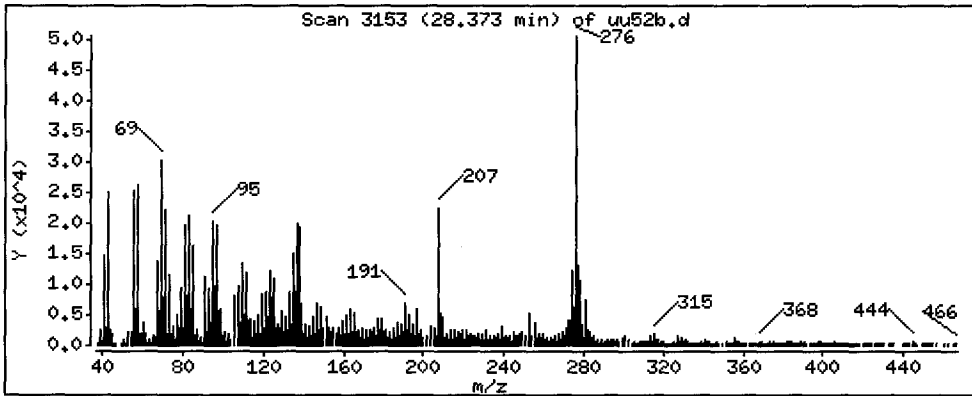
Column phase: ZB-5msi

Column diameter: 0.25

YZ

79 Dibenzo(a,h)anthracene

Concentration: 53.98 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

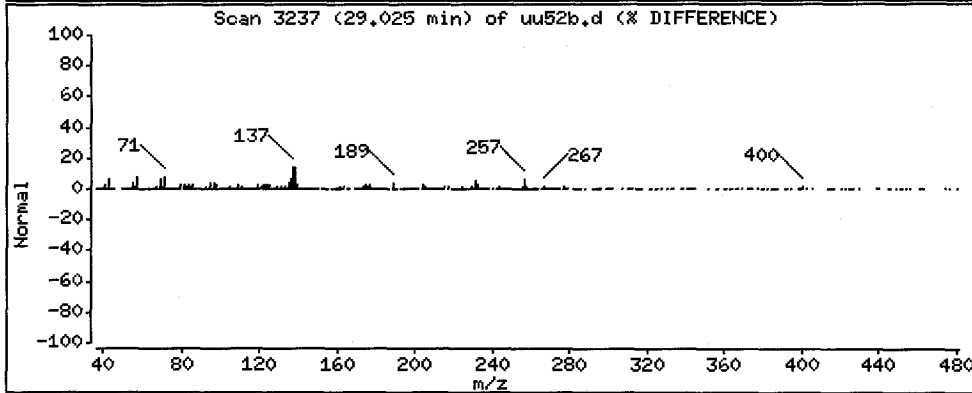
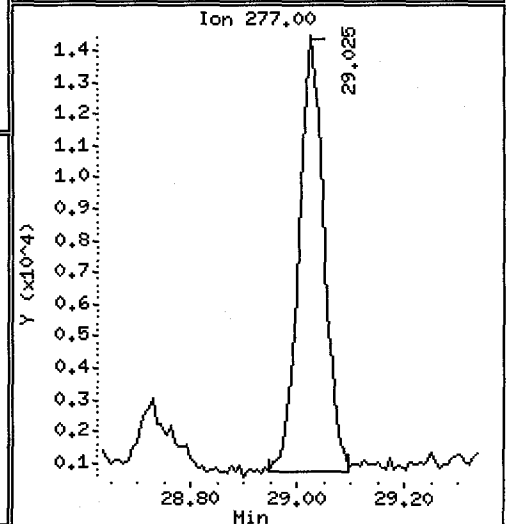
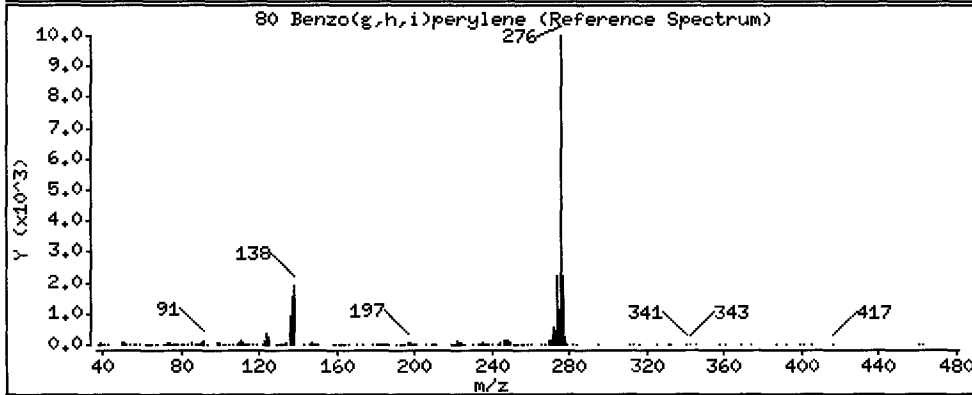
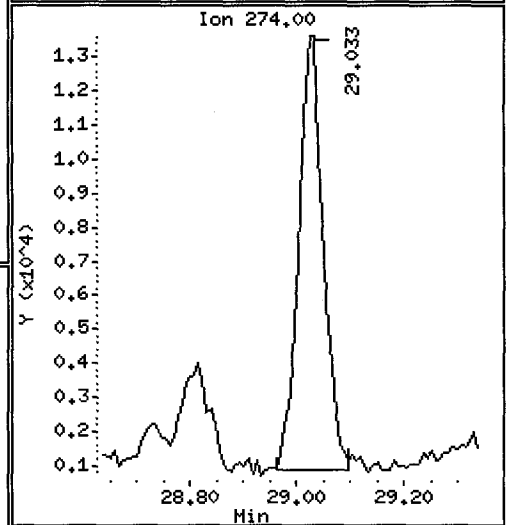
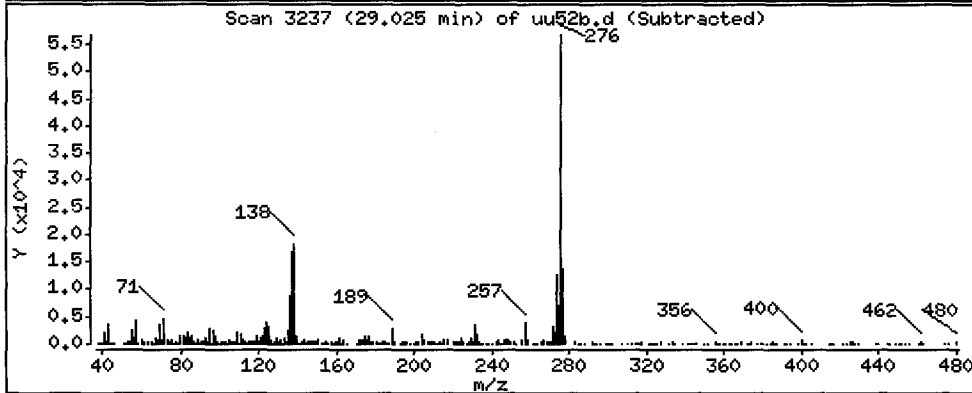
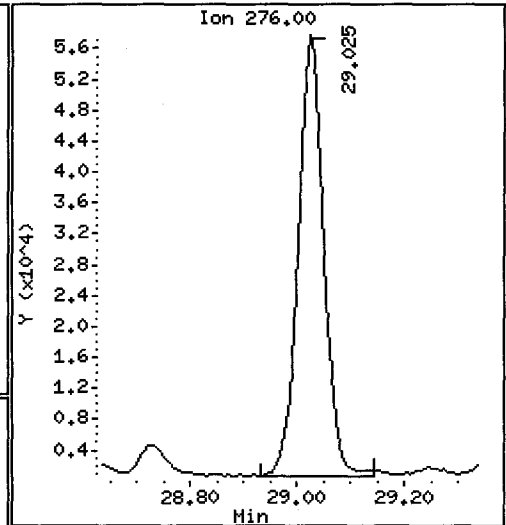
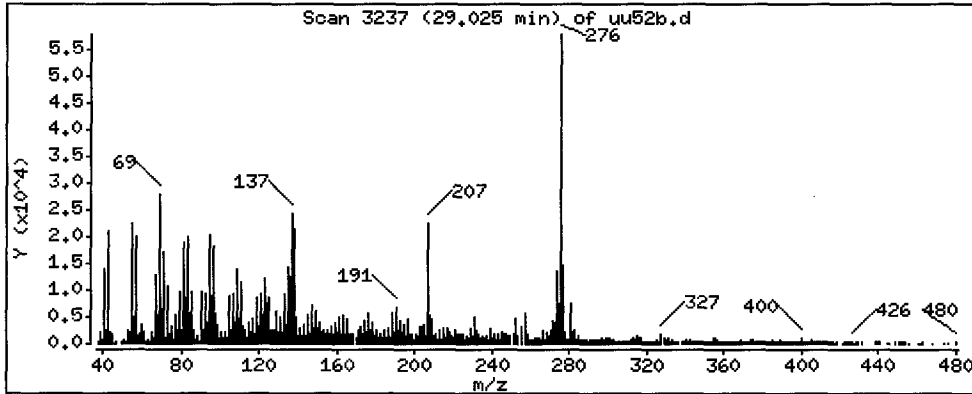
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 333.0 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

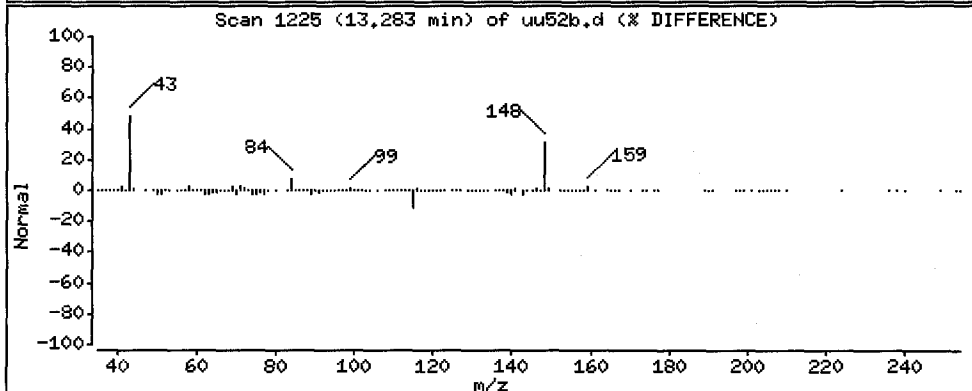
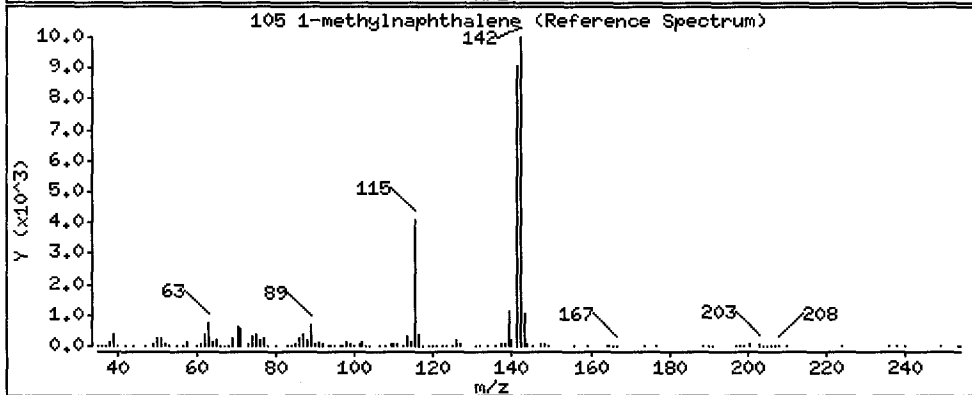
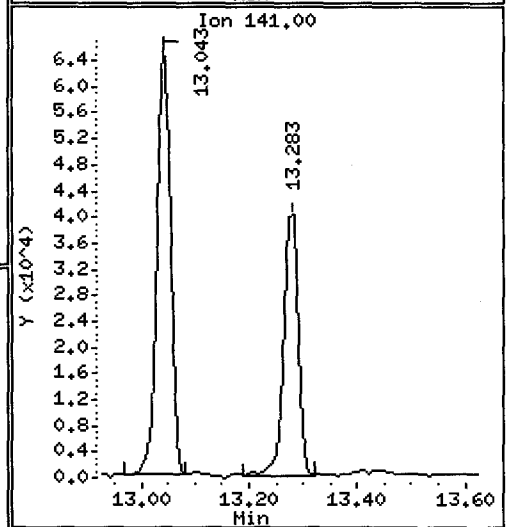
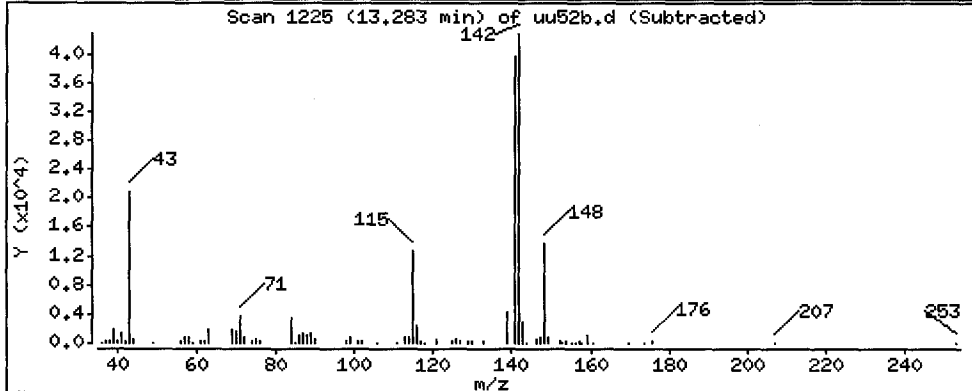
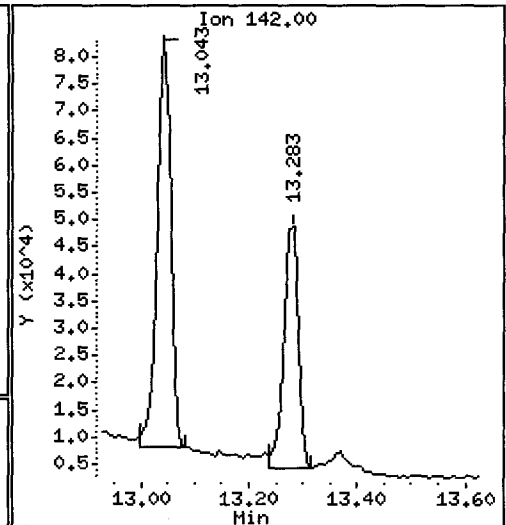
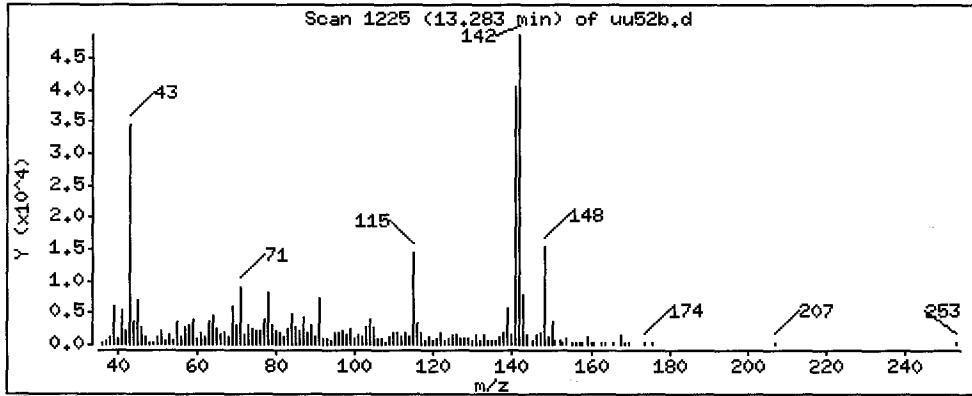
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 168.9 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

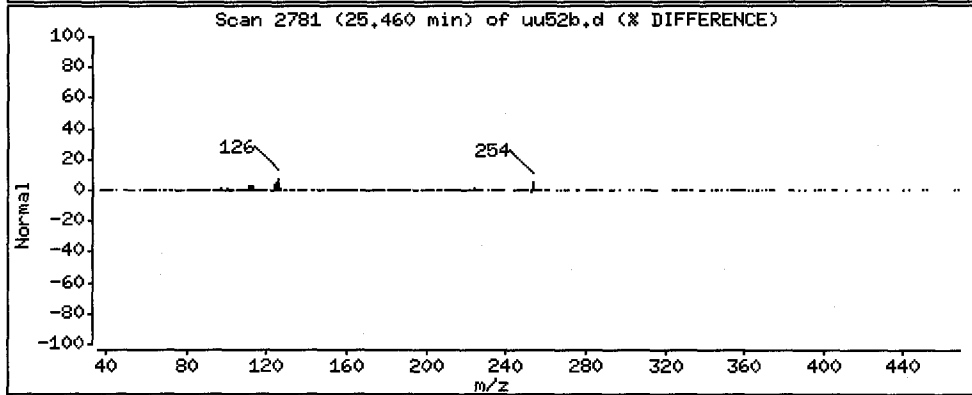
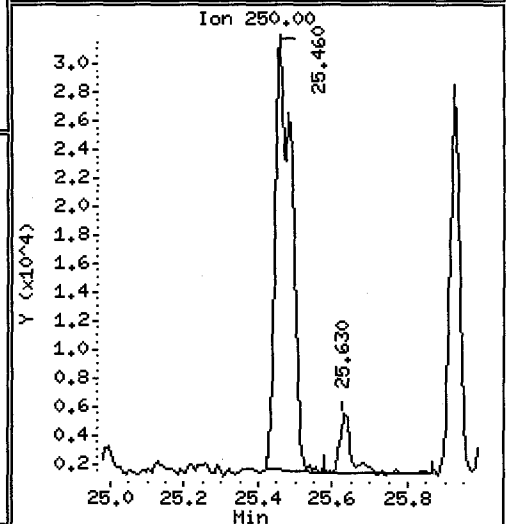
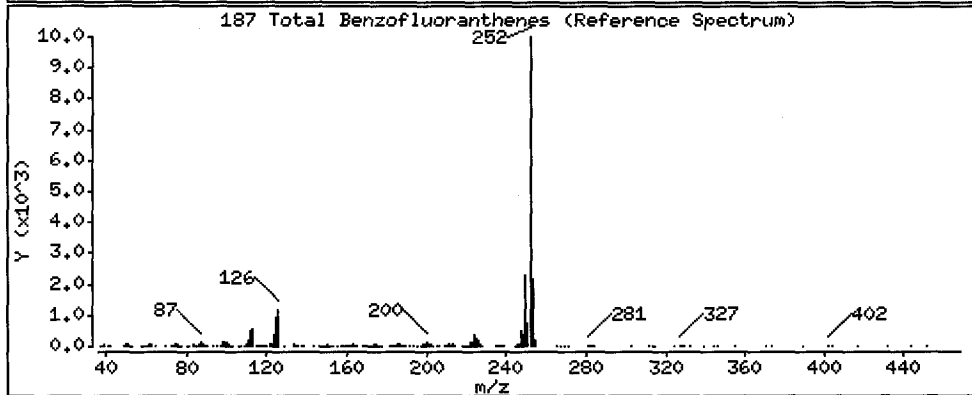
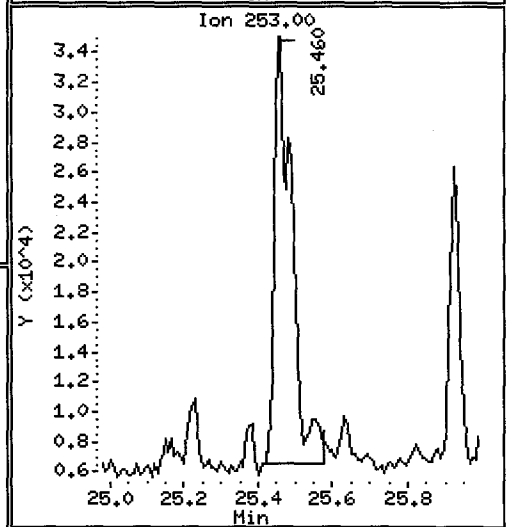
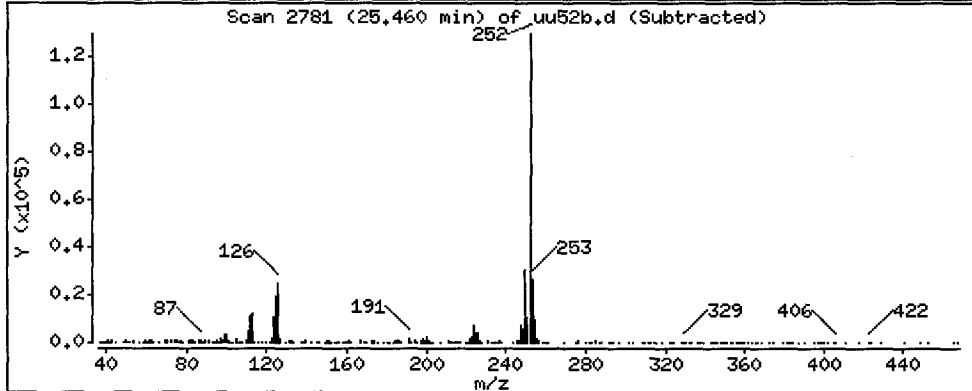
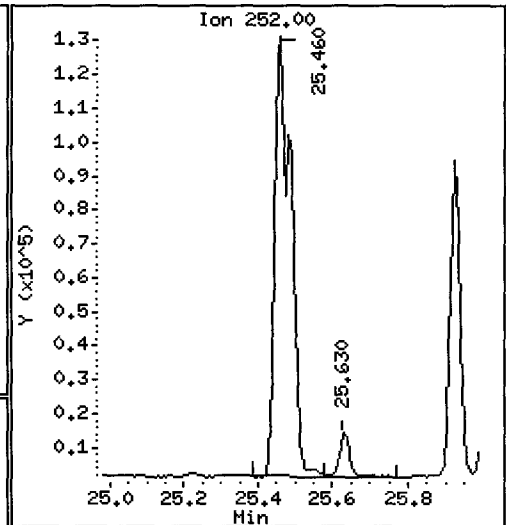
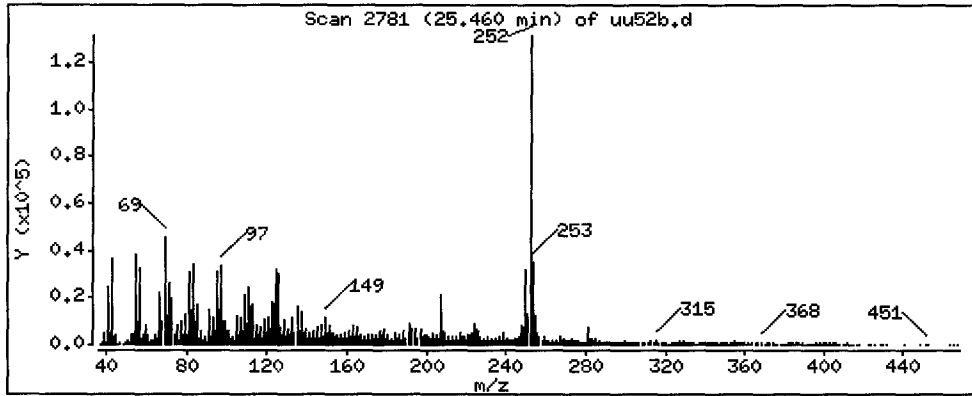
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 632.3 ug/kg



Date : 26-MAY-2012 17:48

Client ID: MS101-SS-120515

Instrument: nt10.i

Sample Info: UU52B,3

Volume Injected (uL): 1.0

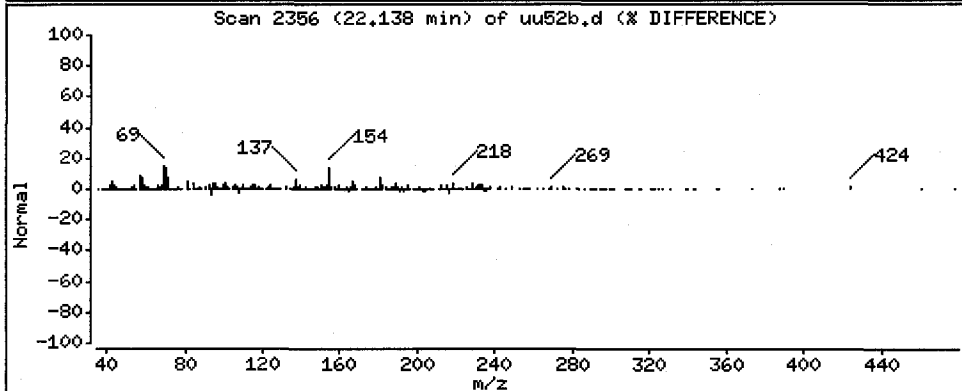
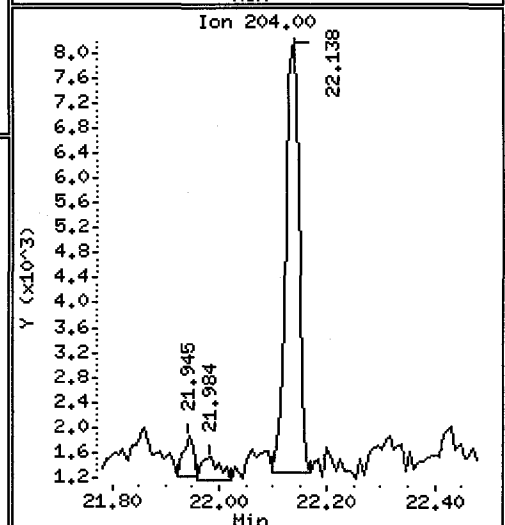
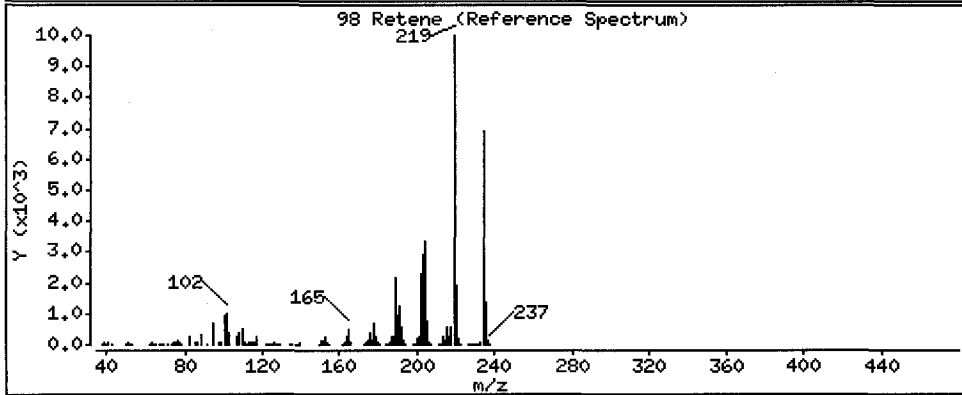
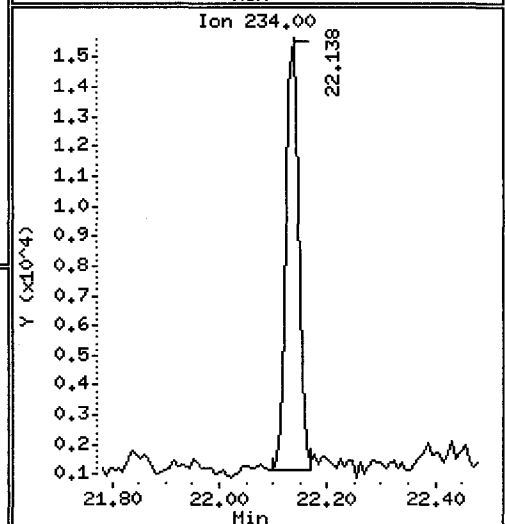
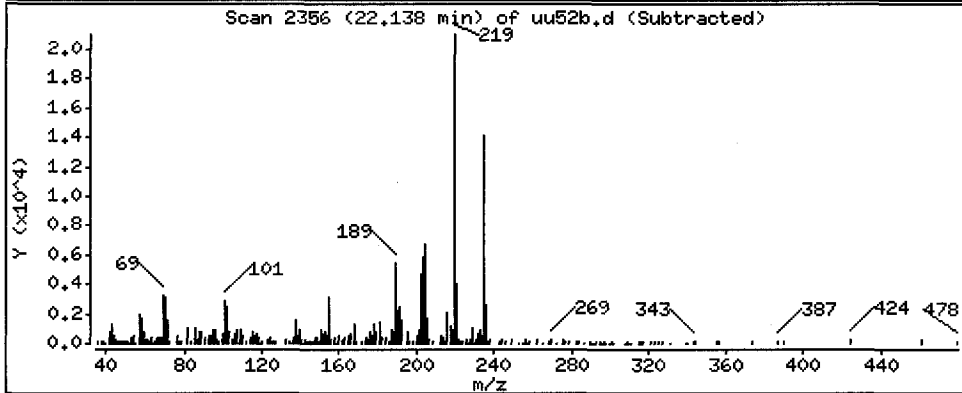
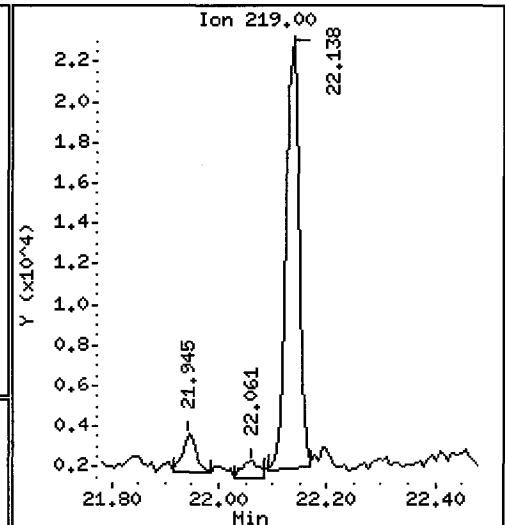
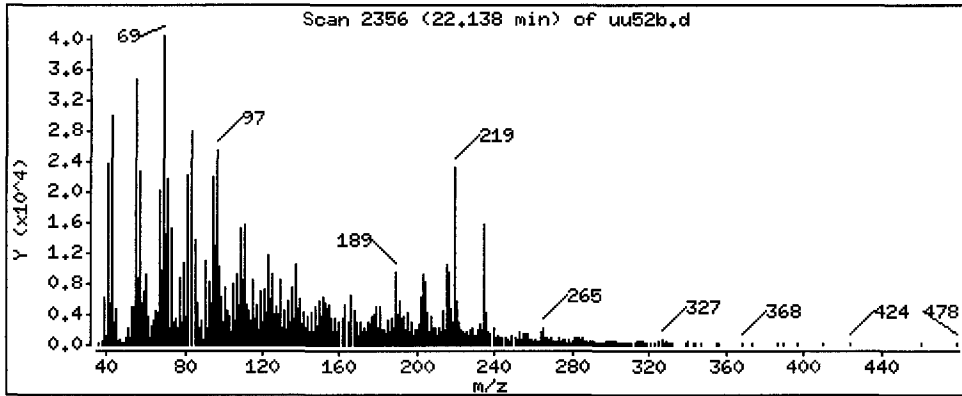
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

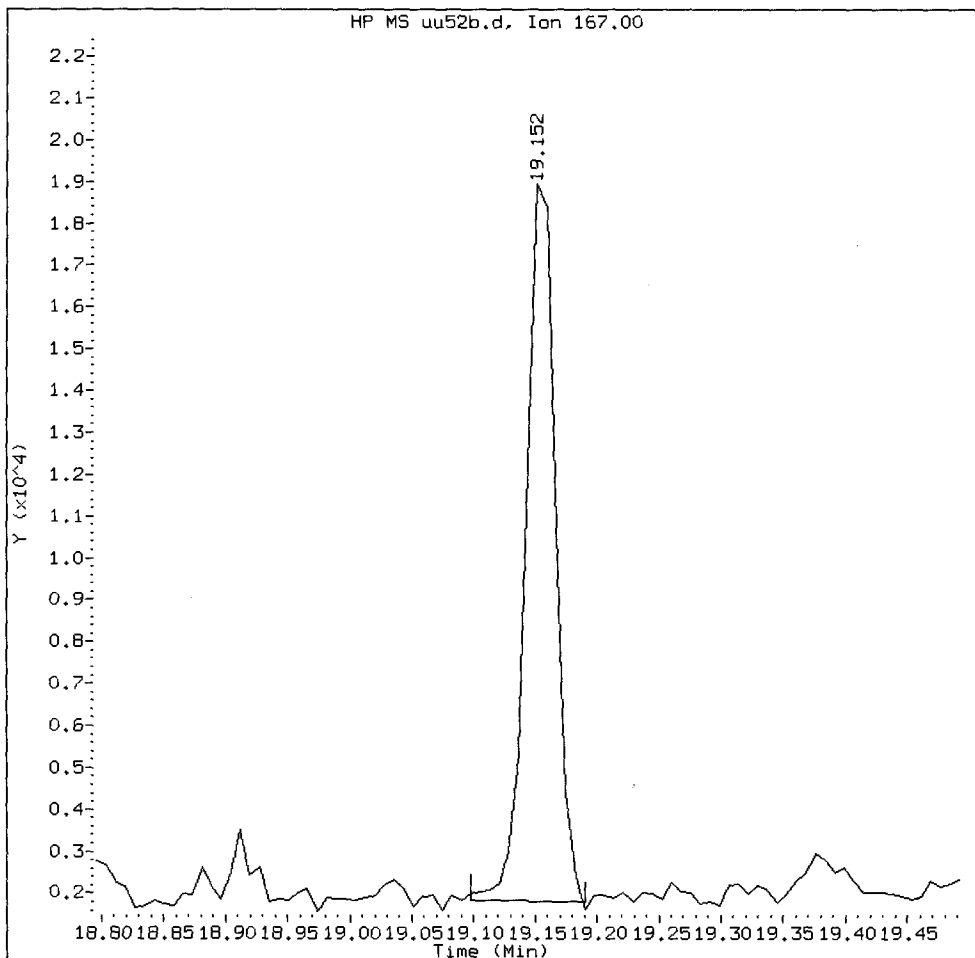
98 Retene

Concentration: 103.5 ug/kg



UU52B, /chem1/nt10.i/20120526.b/uu52b.d

Carbazole Amount: 0.19 Area: 28849



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 6/4/9

CO-ELUTION SUMMARY FOR FILE - uu52b.d

Lab ID: UU52B, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/uu52c.d
 Lab Smp Id: UU52C Client Smp ID: MS002-SS-120515
 Inj Date : 26-MAY-2012 18:25
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52C,3
 Misc Info : 12-8895
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 5
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

YZ 6/4/12

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 99.10000 | Weight of sample extracted (g) |
| M | 89.80000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | ==== | 112 | 6.560 | 6.537 | (0.741) | 106665 | 1.60716 | 477.0 |
| \$ 2 Phenol-d5 | ==== | 99 | 8.245 | 8.237 | (0.931) | 143555 | 1.73641 | 515.3 |
| 3 Phenol | ==== | 94 | 8.268 | 8.260 | (0.934) | 76732 | 0.87075 | 258.4 |
| \$ 5 2-Chlorophenol-d4 | ==== | 132 | 8.484 | 8.476 | (0.958) | 120657 | 1.66582 | 494.4 |
| 4 Bis(2-Chloroethyl)ether | ==== | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | ==== | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | ==== | 152 | 8.855 | 8.855 | (1.000) | 189793 | 4.00000 | |
| 9 1,4-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | ==== | 152 | 9.236 | 9.236 | (1.043) | 47340 | 0.99631 | 295.7 |
| 12 1,2-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | ==== | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | ==== | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | ==== | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | 9.740 | 9.725 | (1.100) | 342549 | 4.72740 | 1403 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.028 | 10.027 | (0.872) | 72146 | 1.05554 | 313.3 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | 11.026 | 11.087 | (0.958) | 62829 | 1.43002 | 424.4 |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.504 | (1.000) | 762840 | 4.00000 | |
| 28 Naphthalene | 128 | 11.543 | 11.542 | (1.003) | 856750 | 4.45500 | 1322 |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 107209 | 0.80190 | 238.0 |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 169852 | 1.16359 | 345.3 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | 15.040 | 15.032 | (0.978) | 55290 | 0.29236 | 86.77 |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.380 | 15.373 | (1.000) | 421087 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | 15.442 | 15.442 | (1.004) | 54131 | 0.47454 | 140.8 |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | 15.806 | 15.798 | (1.028) | 134028 | 0.80199 | 238.0 |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | 16.470 | 16.470 | (1.071) | 17315 | 0.13728 | 40.74 |
| 49 Fluorene | 166 | 16.571 | 16.563 | (1.077) | 69735 | 0.54459 | 161.6 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.150 | 17.142 | (1.115) | 32396 | 1.86394 | 553.2 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 18.641 | 18.633 | (1.000) | 644641 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.695 | 18.687 | (1.003) | 466441 | 2.80604 | 832.8 |
| 61 Anthracene | 178 | 18.788 | 18.780 | (1.008) | 96806 | 0.55749 | 165.5 |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 62 Carbazole | 167 | | 19.160 | 19.144 | (1.028) | 30025 | 0.18687 | 55.46 (M) |
| 63 Di-n-butylphthalate | 149 | | Compound Not Detected. | | | | | |
| 64 Fluoranthene | 202 | | 21.132 | 21.101 | (1.134) | 547685 | 2.90186 | 861.2 |
| 65 Pyrene | 202 | | 21.535 | 21.519 | (0.908) | 592803 | 2.89231 | 858.4 |
| § 66 Terphenyl-d14 | 244 | | 21.852 | 21.844 | (0.921) | 156944 | 1.22235 | 362.8 |
| 67 Butylbenzylphthalate | 149 | | Compound Not Detected. | | | | | |
| 68 Benzo(a)anthracene | 228 | | 23.687 | 23.679 | (0.999) | 177073 | 0.93451 | 277.4 |
| * 69 Chrysene-d12 | 240 | | 23.718 | 23.710 | (1.000) | 673614 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | Compound Not Detected. | | | | | |
| 71 Chrysene | 228 | | 23.757 | 23.749 | (1.002) | 447294 | 2.68344 | 796.4 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.834 | 23.818 | (0.961) | 75018 | 0.50501 | 149.9 |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.802 | 24.794 | (1.000) | 1081717 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | Compound Not Detected. | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | Compound Not Detected. | | | | | |
| 75 Benzo(k)fluoranthene | 252 | | Compound Not Detected. | | | | | |
| 76 Benzo(a)pyrene | 252 | | 26.017 | 26.002 | (0.996) | 273211 | 1.58874 | 471.5 |
| * 77 Perylene-d12 | 264 | | 26.118 | 26.102 | (1.000) | 665077 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.373 | 28.342 | (1.086) | 229330 | 1.15287 | 342.2 |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.388 | 28.365 | (1.087) | 55054 | 0.35135 | 104.3 |
| 80 Benzo(g,h,i)perylene | 276 | | 29.041 | 29.002 | (1.112) | 246965 | 1.44782 | 429.7 |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | |
| 93 Benzidine | 184 | | Compound Not Detected. | | | | | |
| 103 Pyridine | 79 | | Compound Not Detected. | | | | | |
| 105 1-methylnaphthalene | 142 | | 13.283 | 13.275 | (1.155) | 65473 | 0.48020 | 142.5 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | Compound Not Detected. | | | | | |
| 187 Total Benzofluoranthenes | 252 | | 25.460 | 25.483 | (0.975) | 633923 | 3.43514 | 1020 |
| 99 Perylene | 252 | | Compound Not Detected. | | | | | |
| 98 Retene | 219 | | 22.146 | 22.131 | (0.934) | 25521 | 0.26740 | 79.36 |

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: uu52c.d
 Lab Smp Id: UU52C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8895

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS002-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 189793 | 0.15 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 762840 | 4.37 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 421087 | 0.09 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 644641 | 0.89 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 673614 | 4.43 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1081717 | 6.46 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 665077 | 2.31 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.72 | 0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.80 | 0.03 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.12 | 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: Anchor QEA, LLC. Client SDG: UU52
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: UU52C Client Smp ID: MS002-SS-120515
Level: LOW Operator: VTS/YZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: SHORTPSDDA.spk Quant Type: ISTD
Sublist File: PSDDAICAL.sub
Method File: /chem1/nt10.i/20120526.b/ABN.m
Misc Info: 12-8895

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 742.0 | 477.0 | 64.29 | 30-160 |
| \$ 2 Phenol-d5 | 742.0 | 515.3 | 69.46 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 742.0 | 494.4 | 66.63 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 494.6 | 295.7 | 59.78 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 494.6 | 313.3 | 63.33 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 494.6 | 345.3 | 69.82 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 742.0 | 553.2 | 74.56 | 30-160 |
| \$ 66 Terphenyl-d14 | 494.6 | 362.8 | 73.34 | 30-160 |

Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Sample Info: UU52C,3

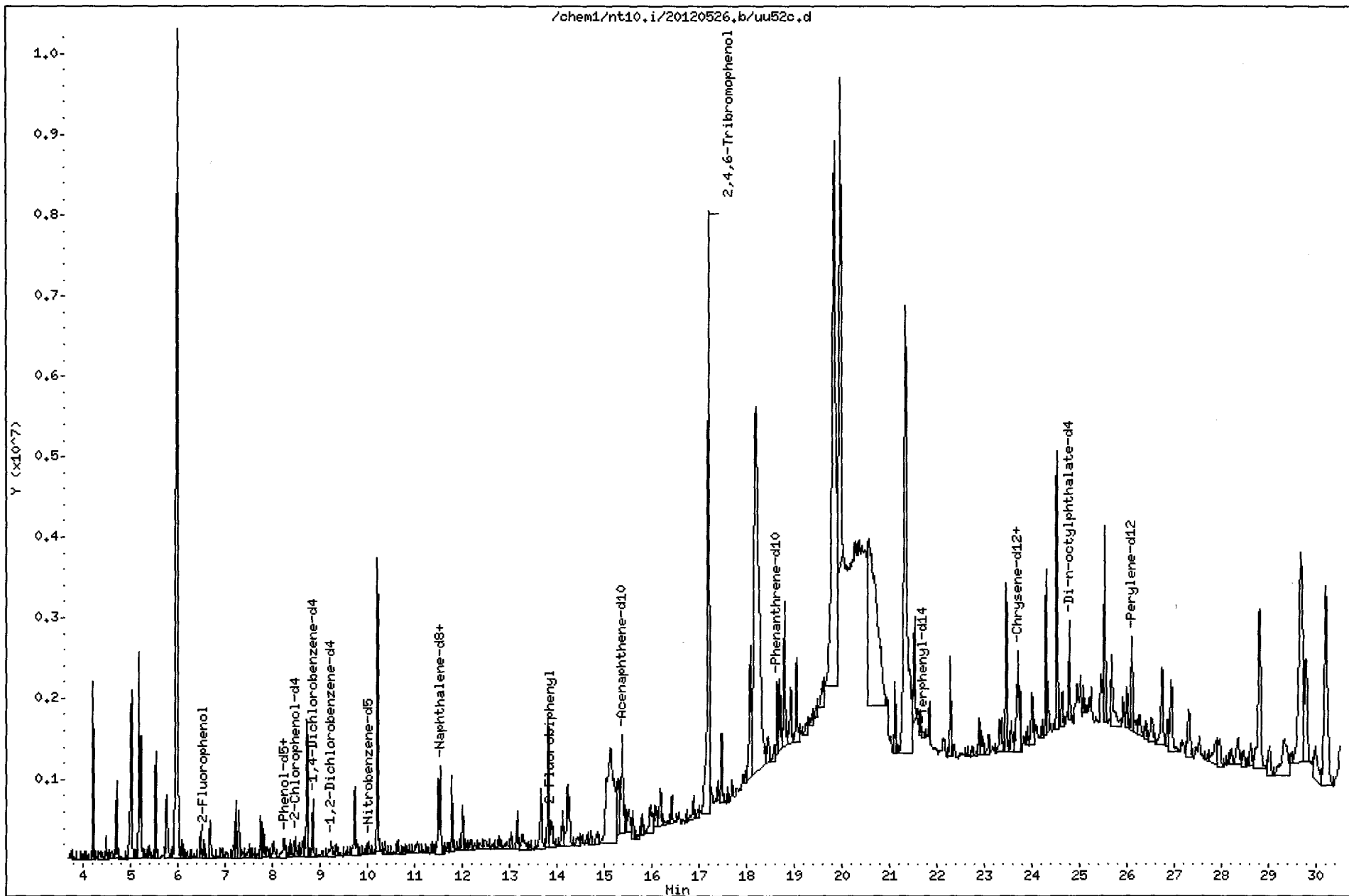
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0,25



UU52:00765

Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

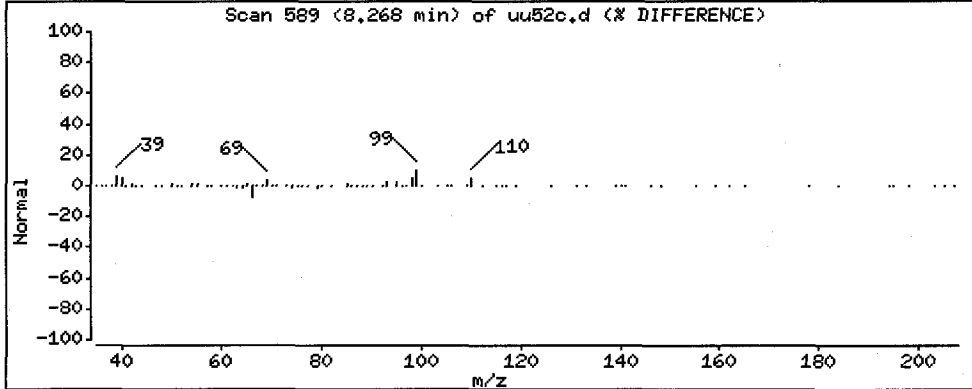
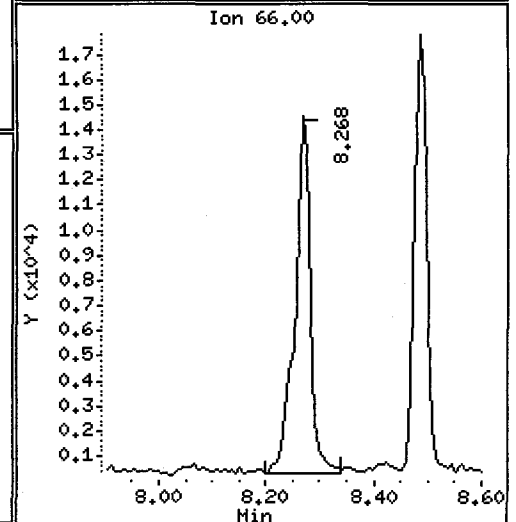
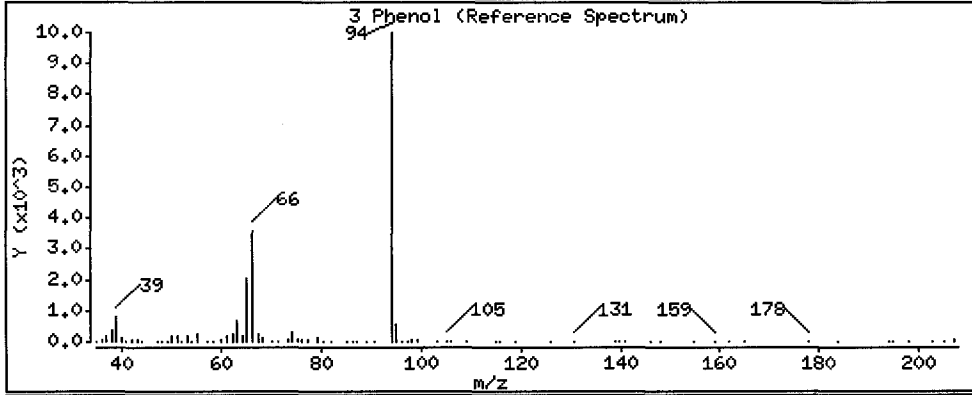
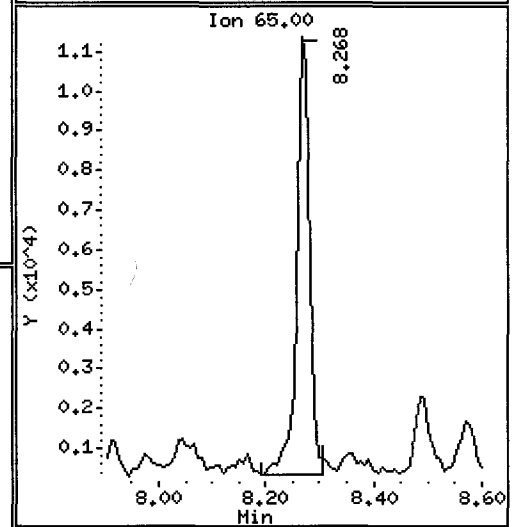
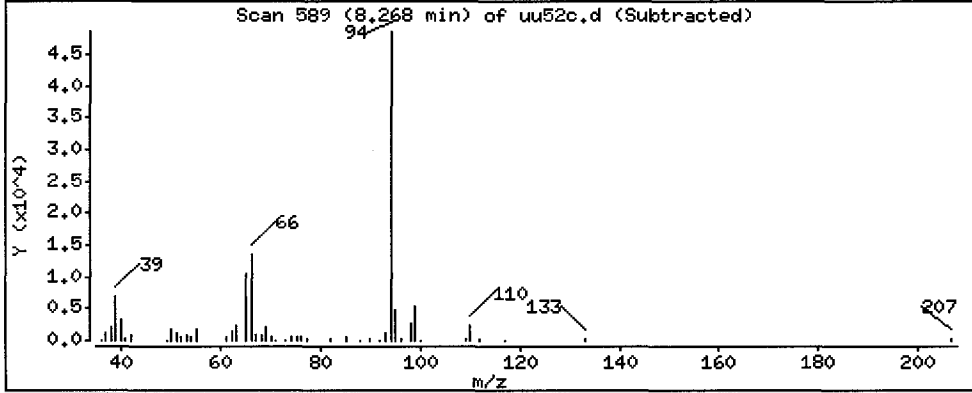
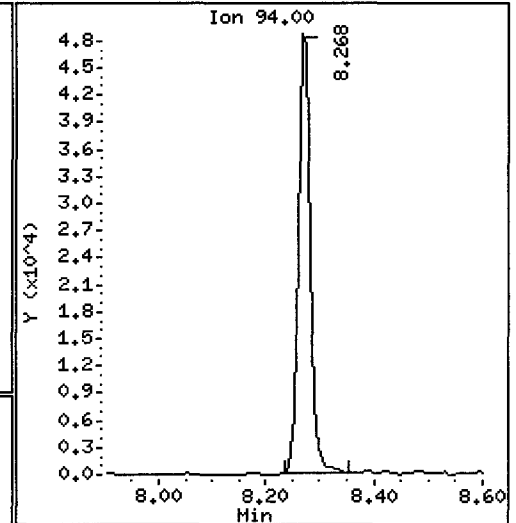
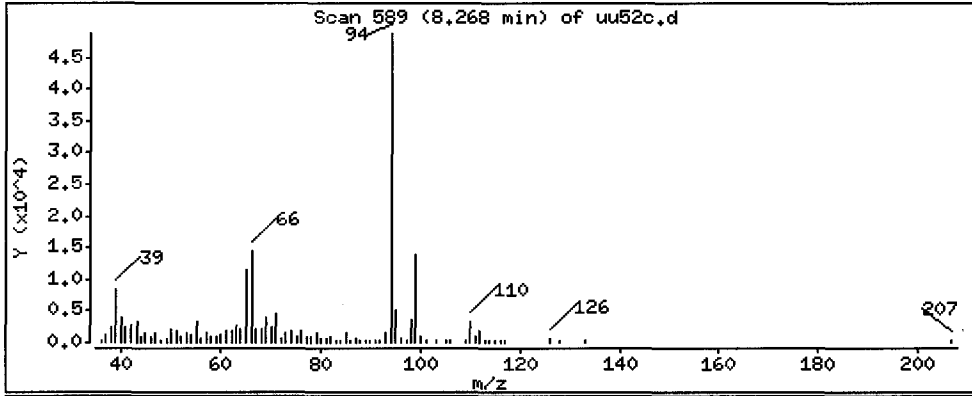
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 258.4 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

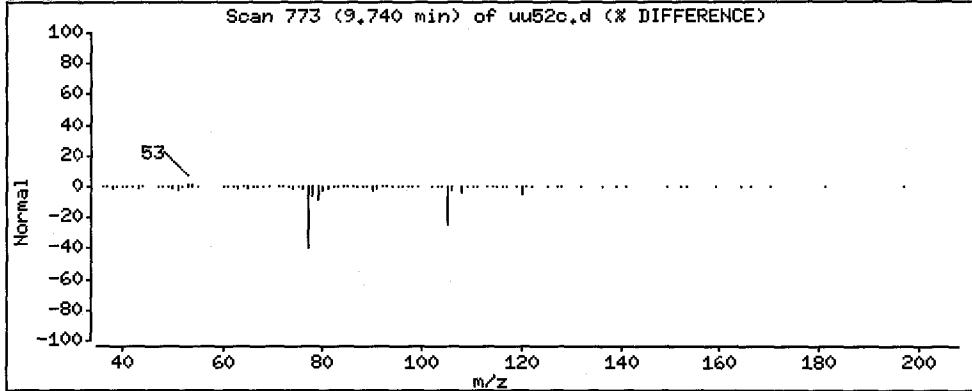
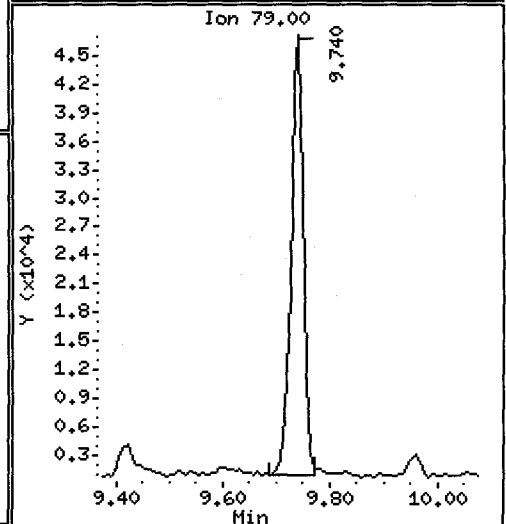
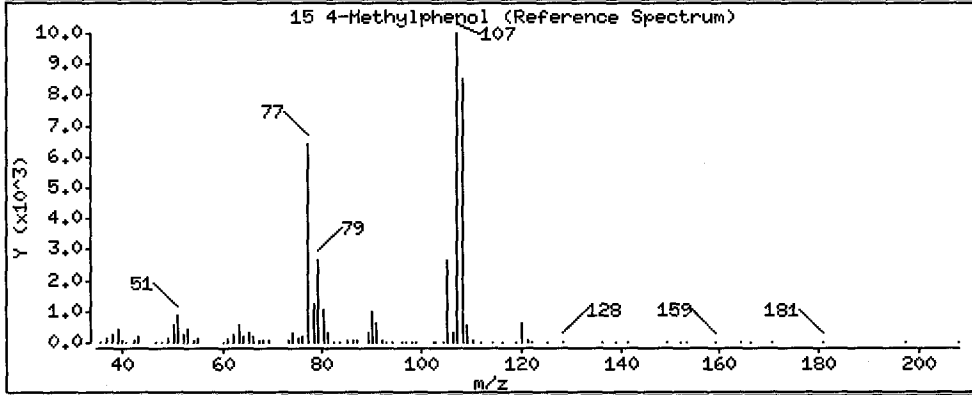
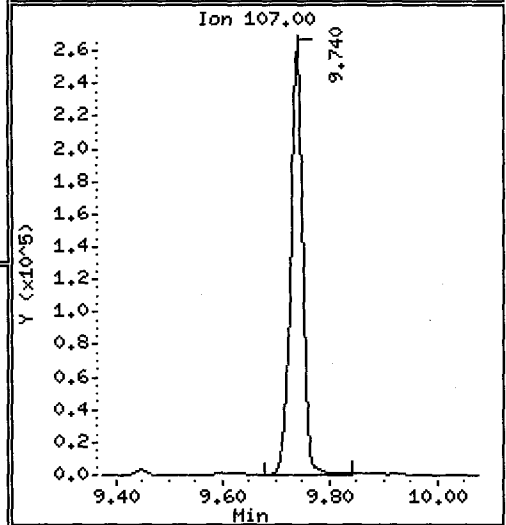
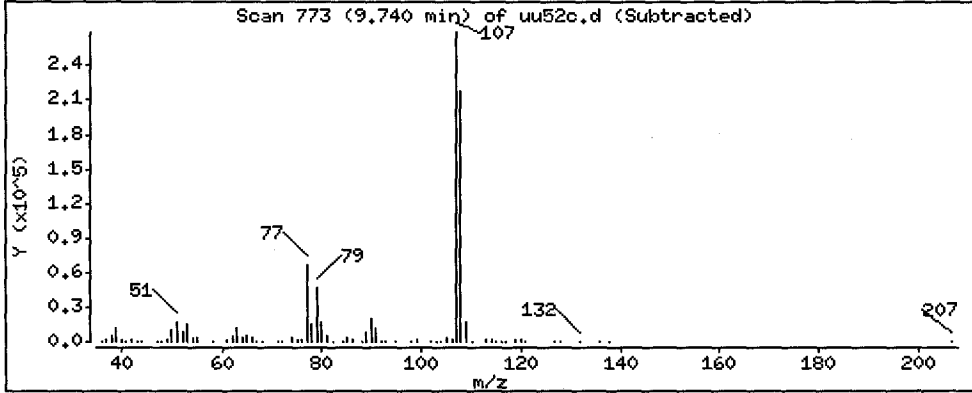
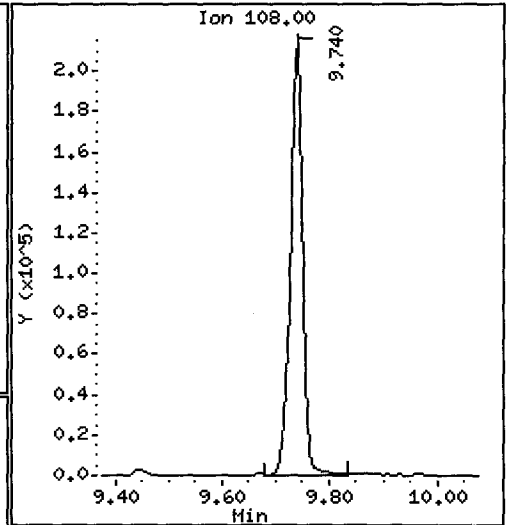
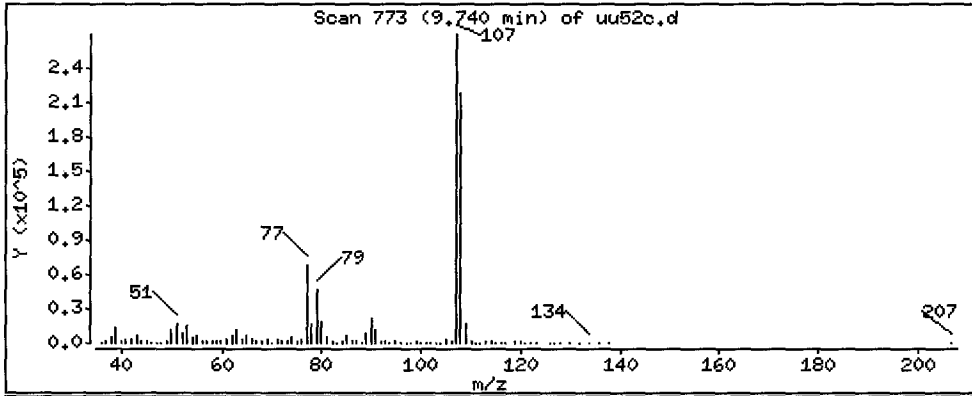
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1403 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

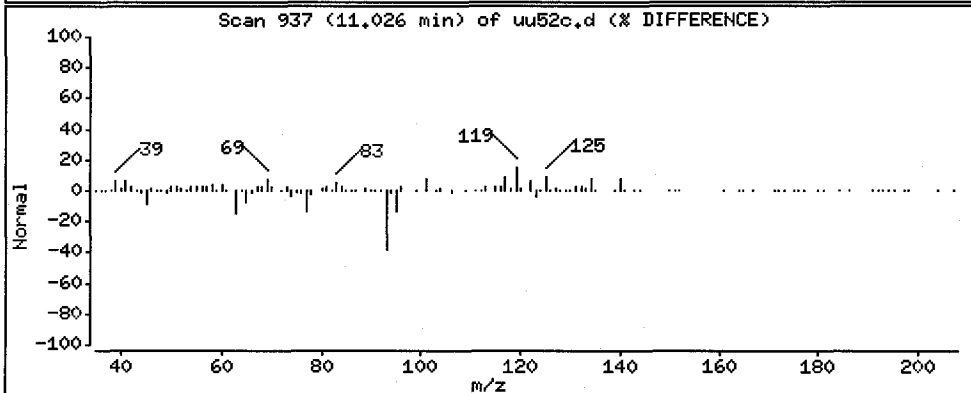
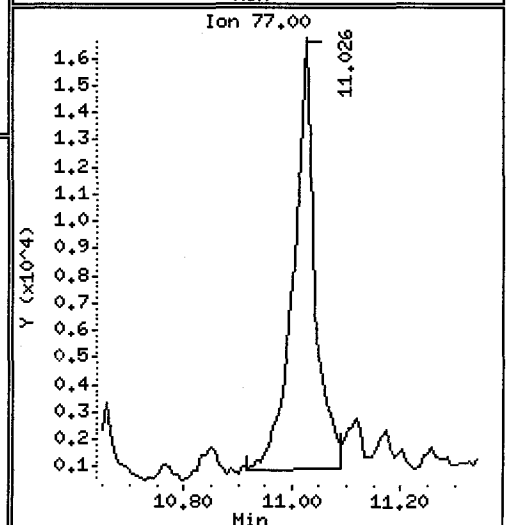
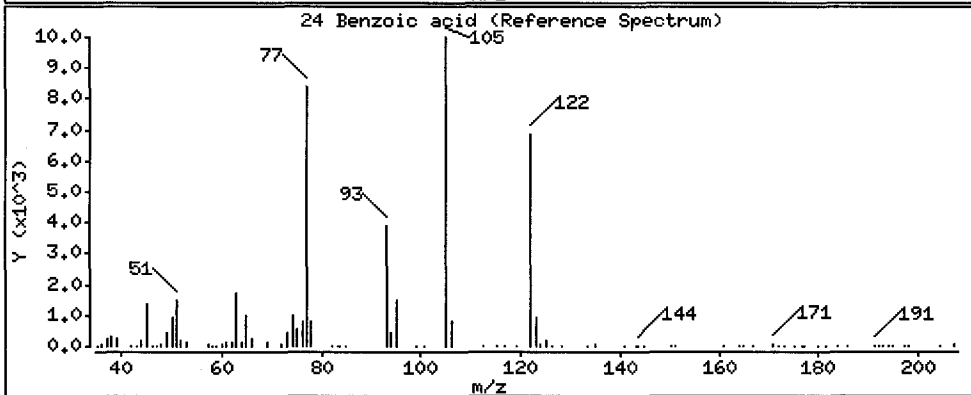
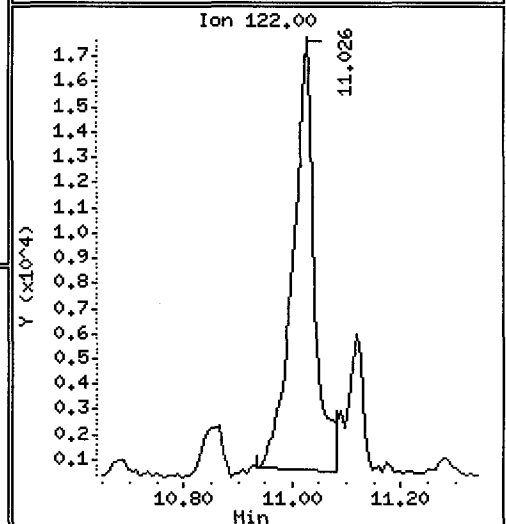
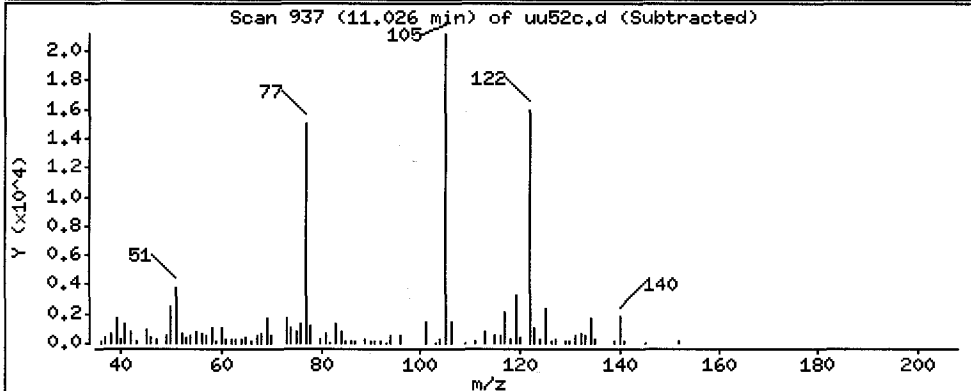
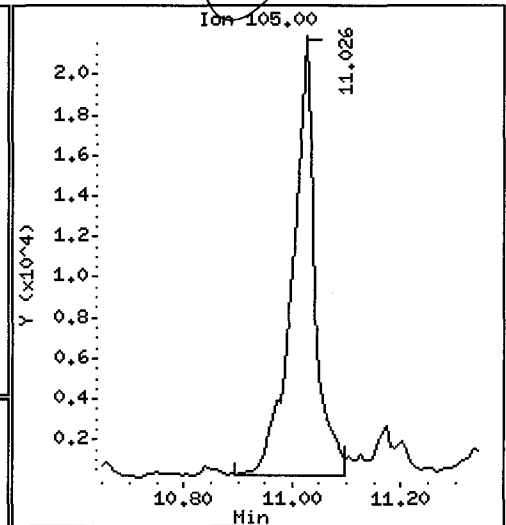
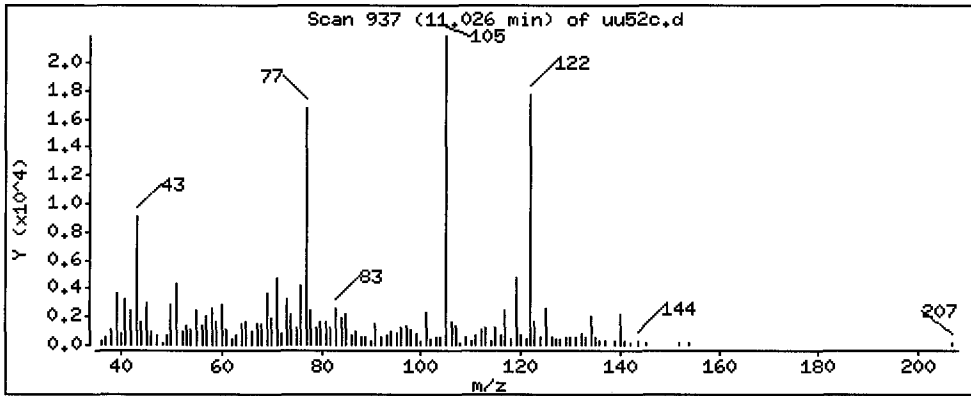
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 424.4 ug/kg

Handwritten signature



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

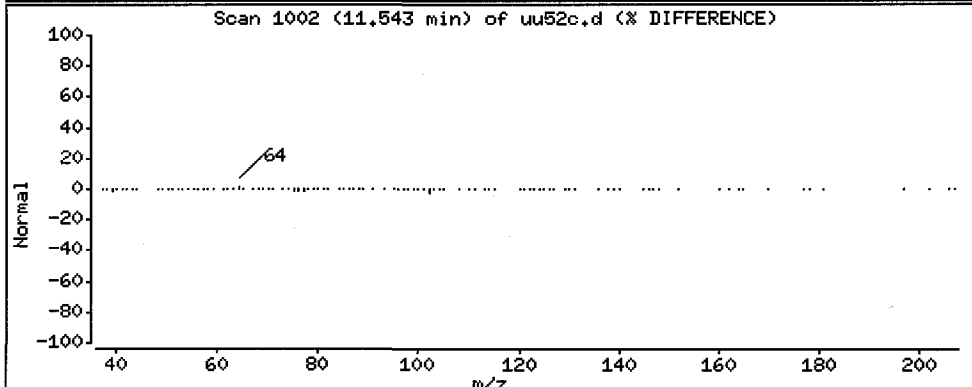
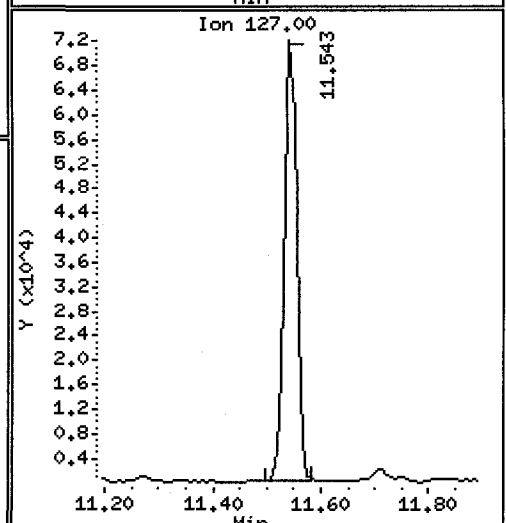
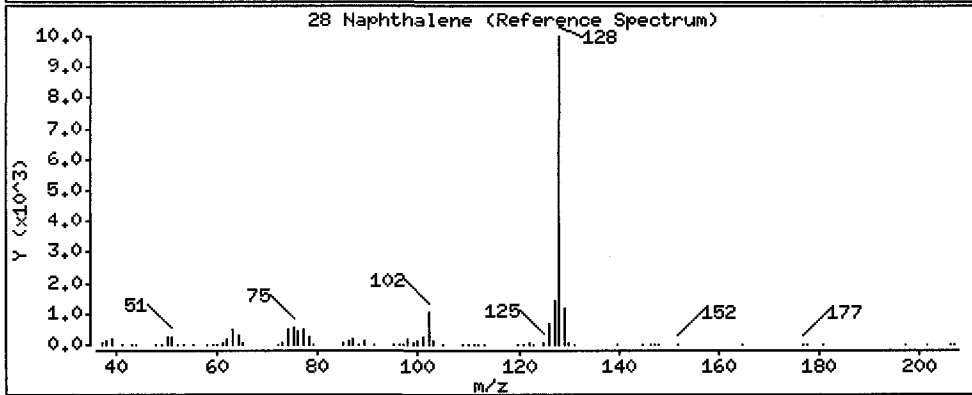
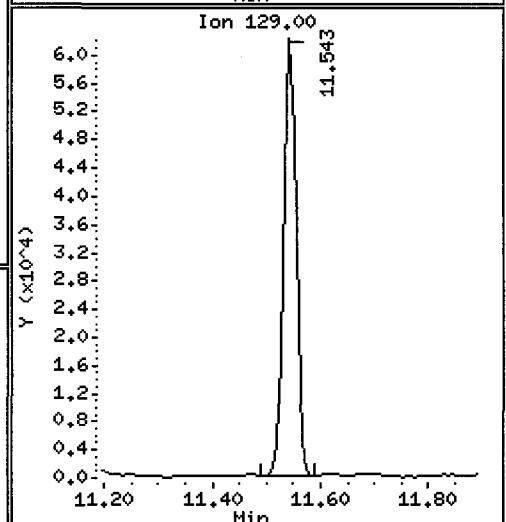
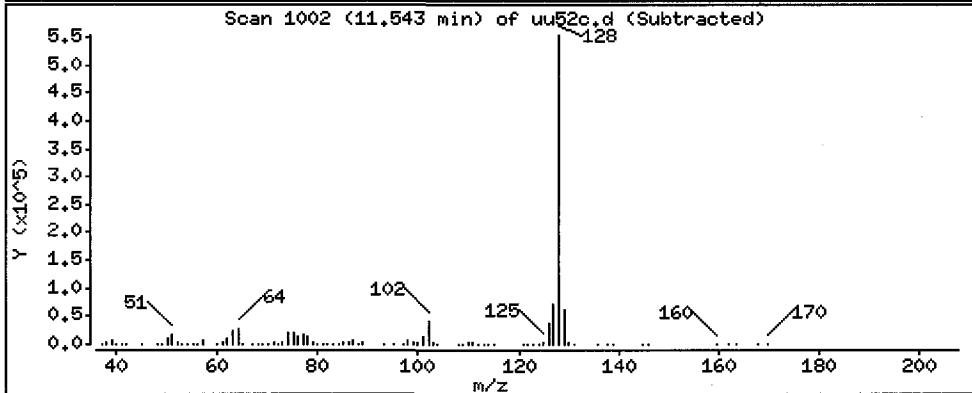
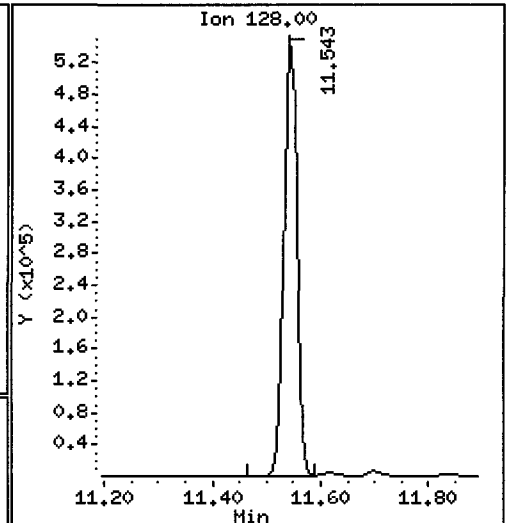
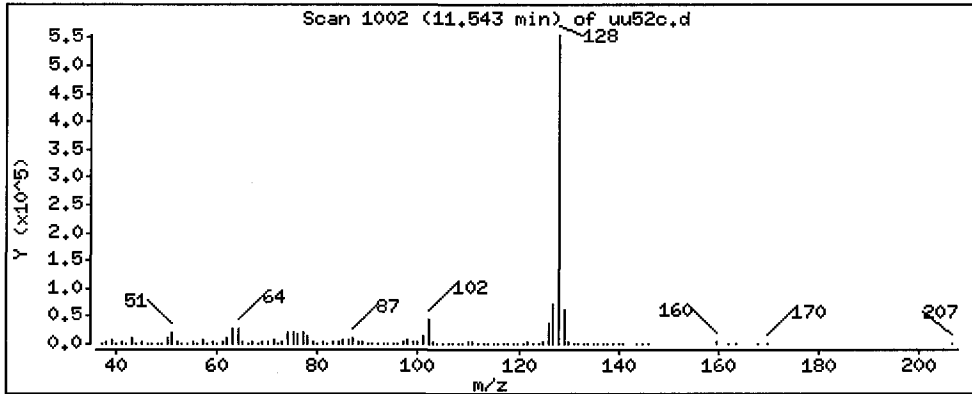
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 1322 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

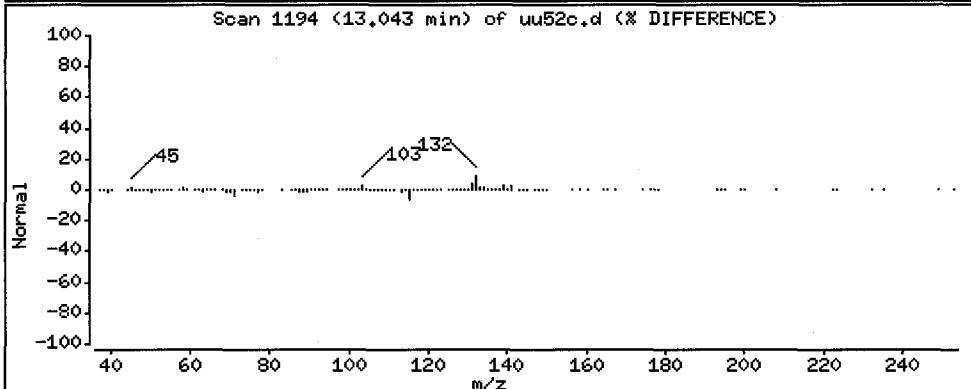
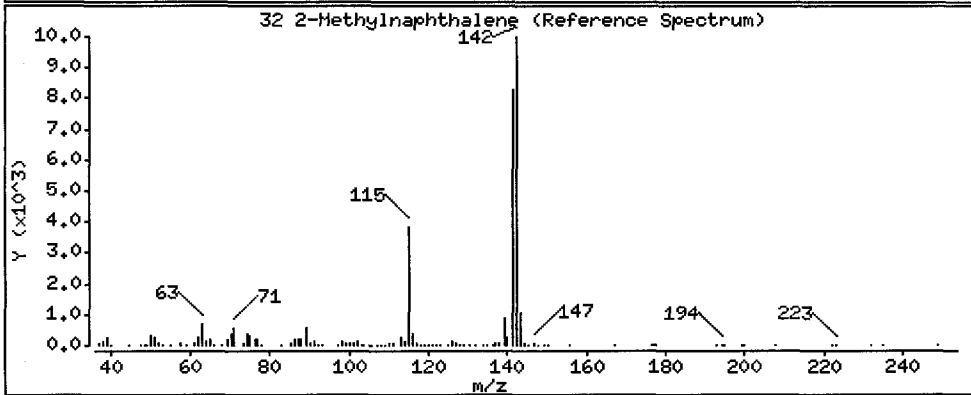
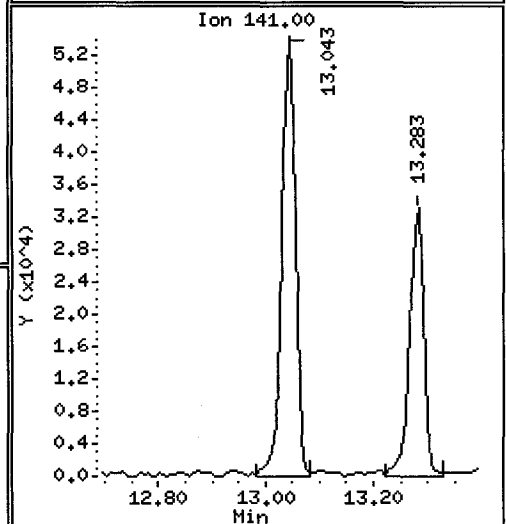
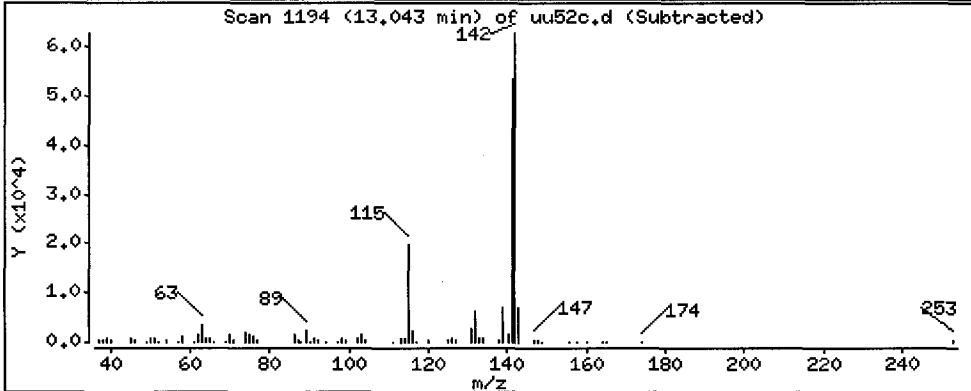
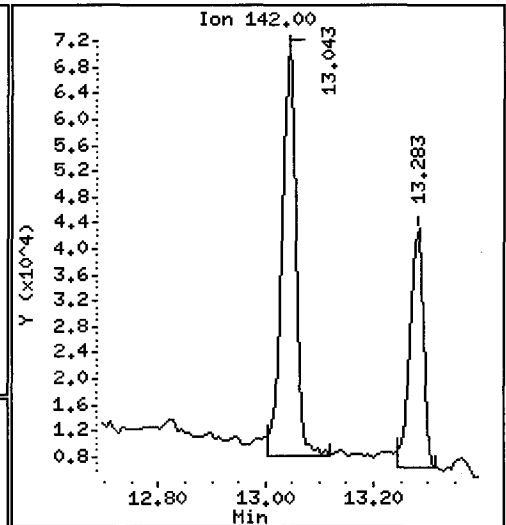
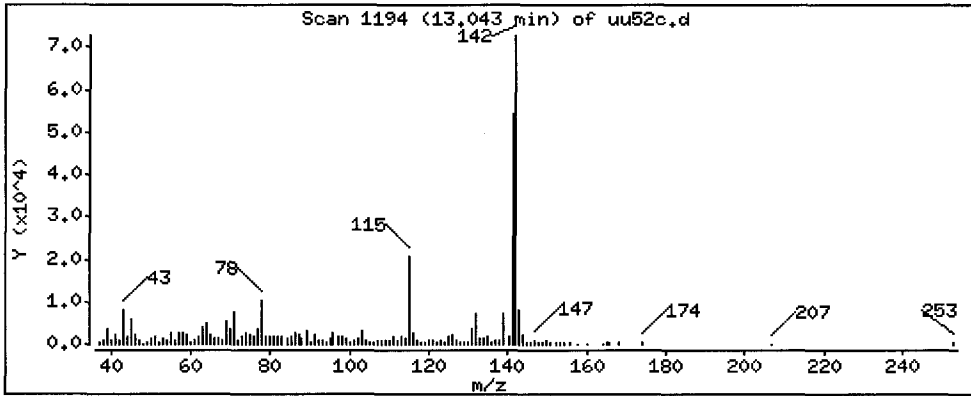
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 238.0 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

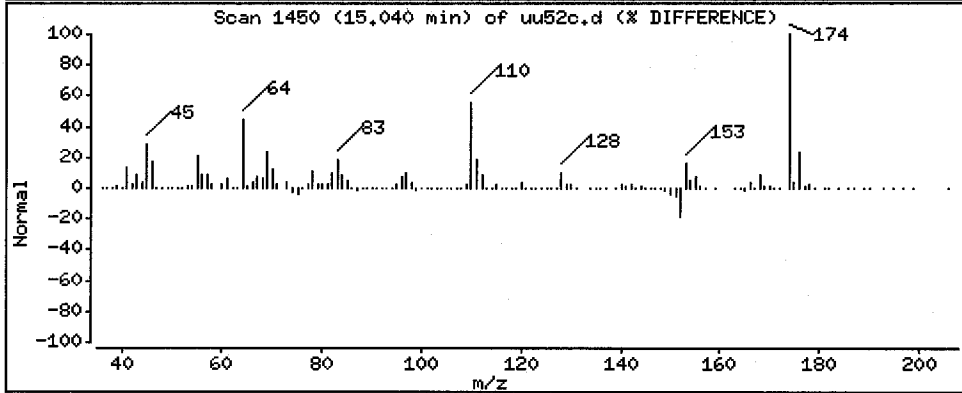
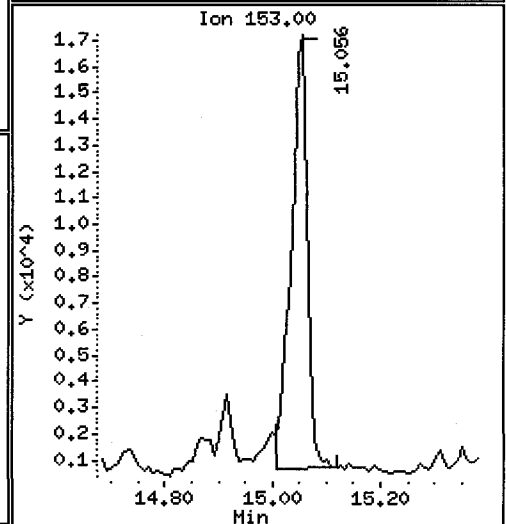
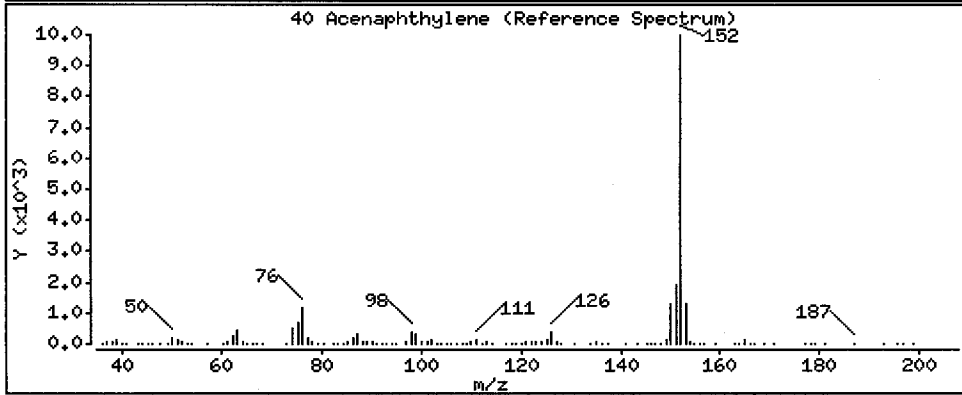
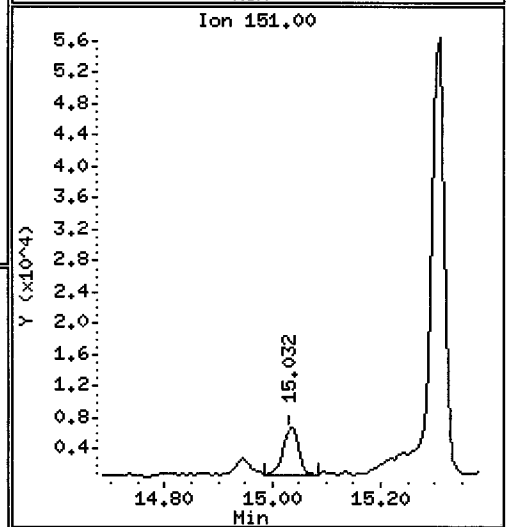
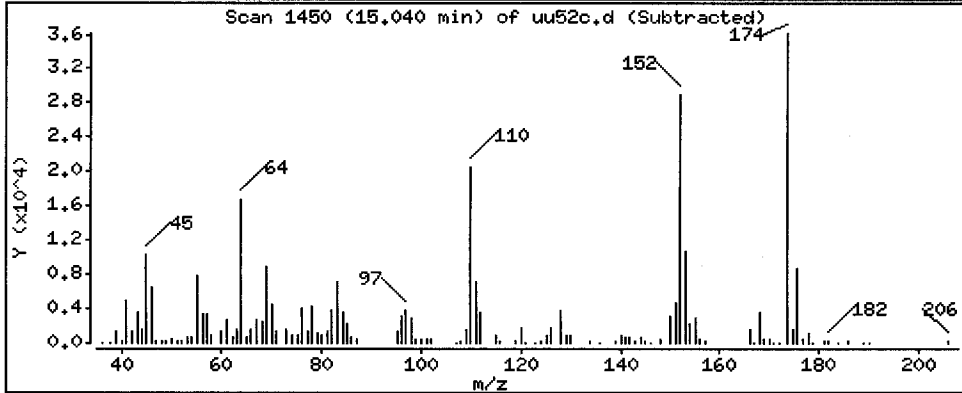
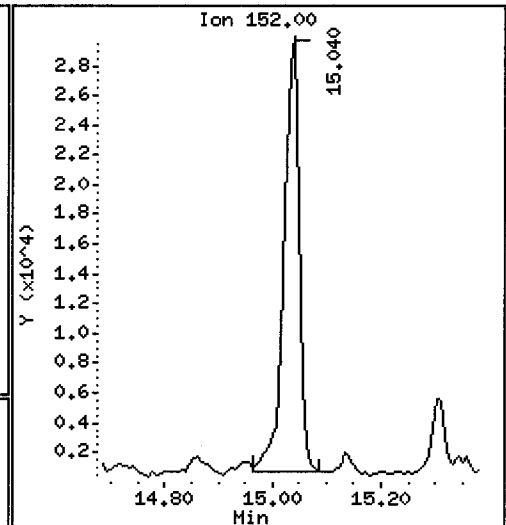
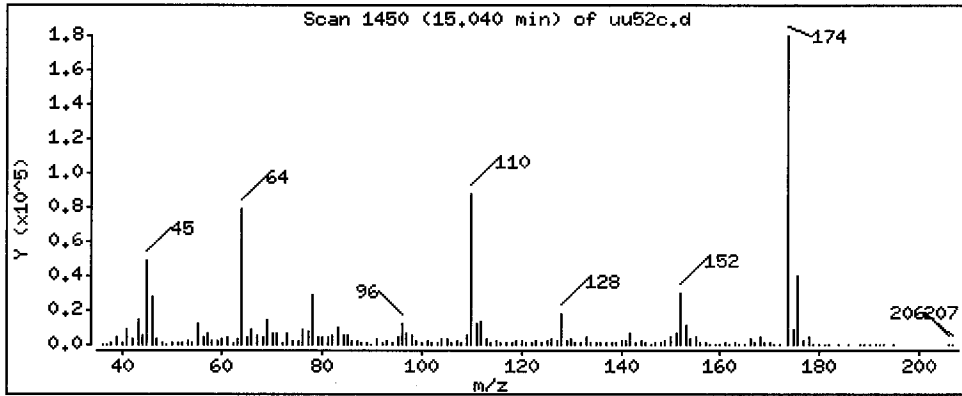
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 86.77 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

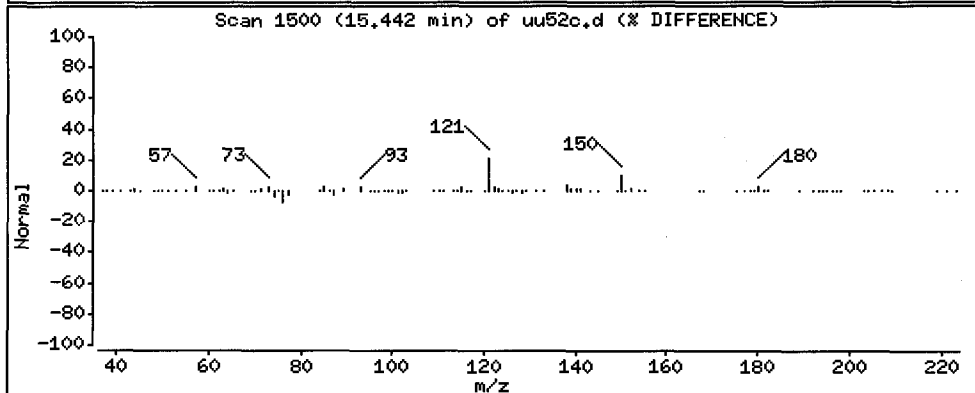
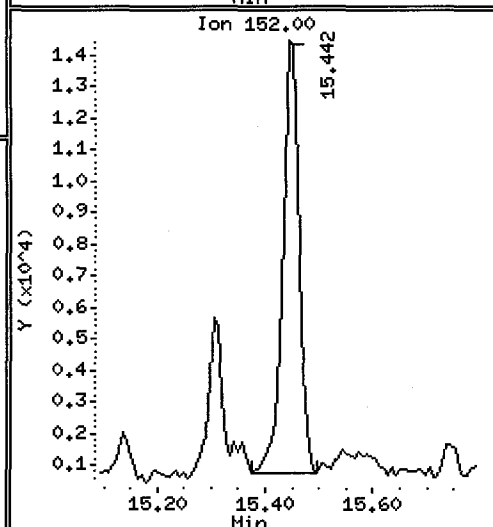
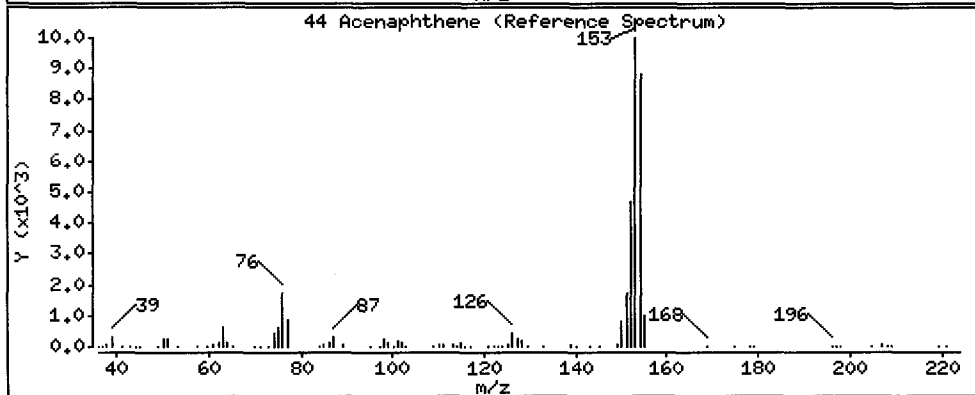
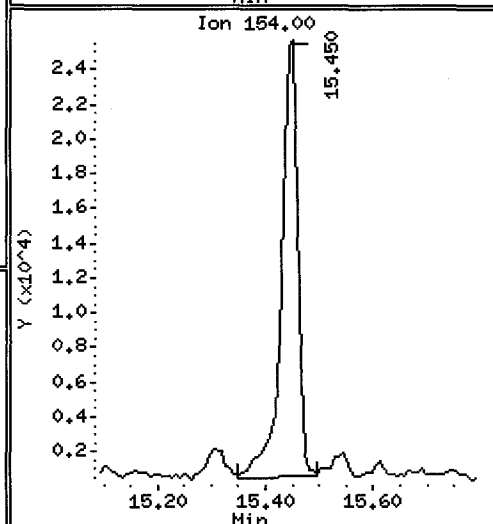
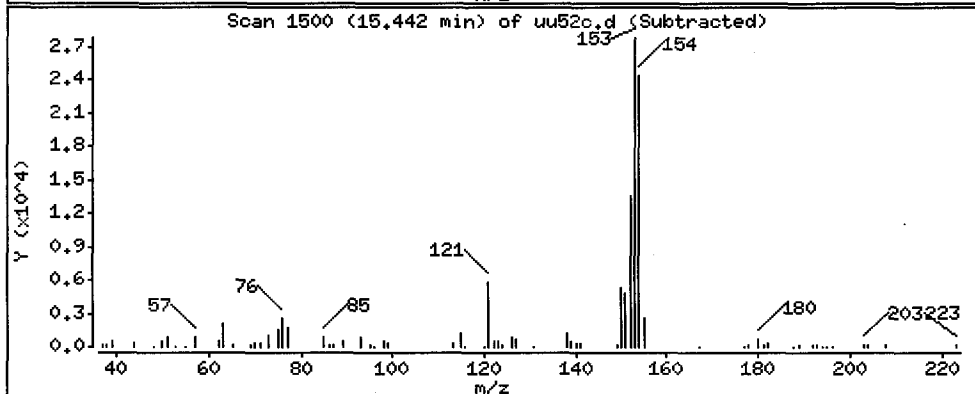
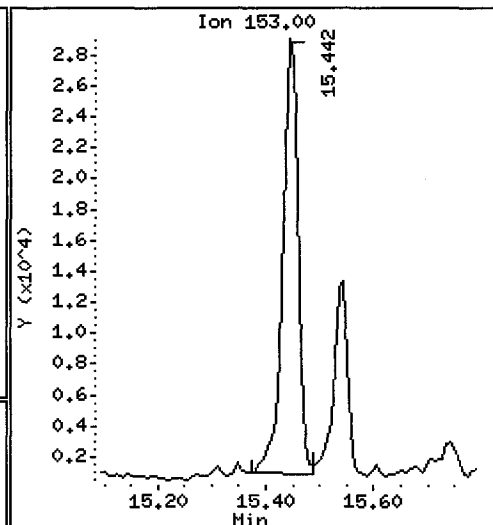
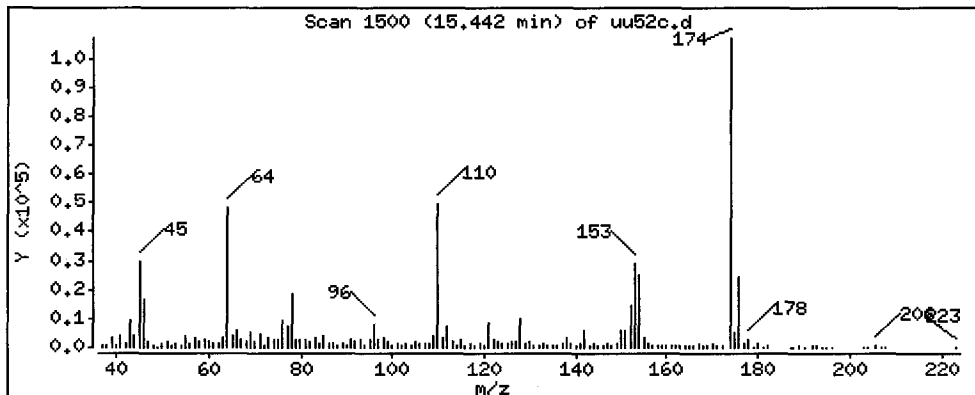
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 140.8 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

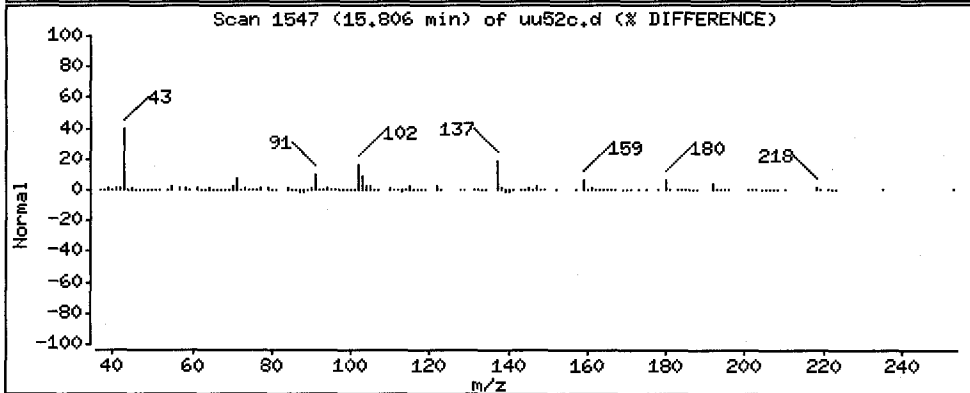
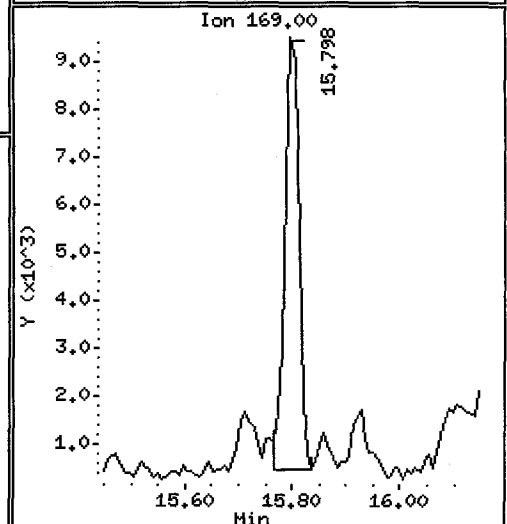
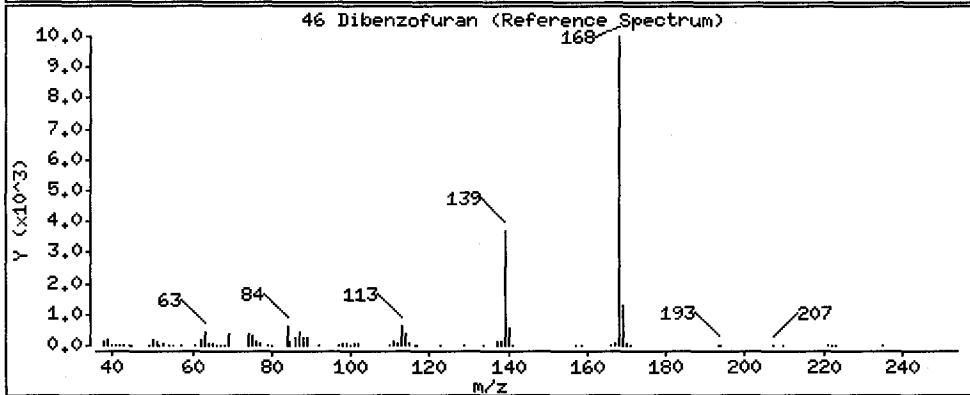
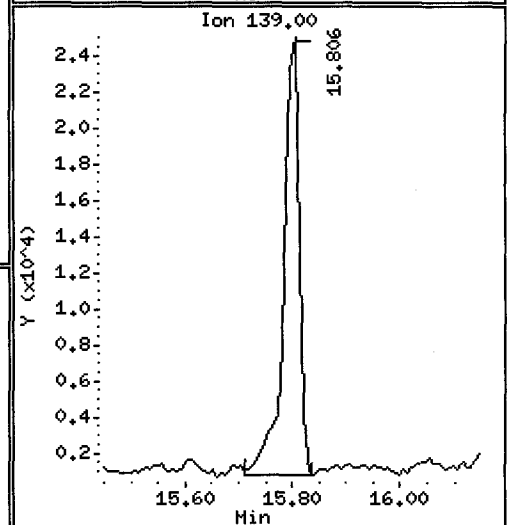
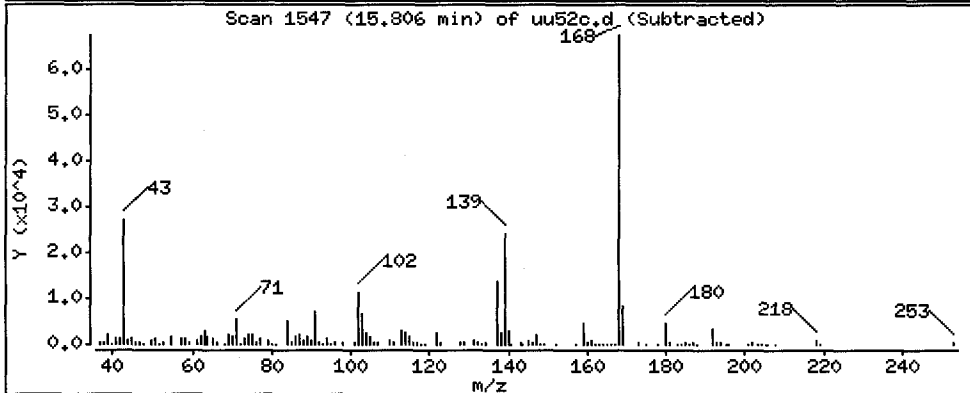
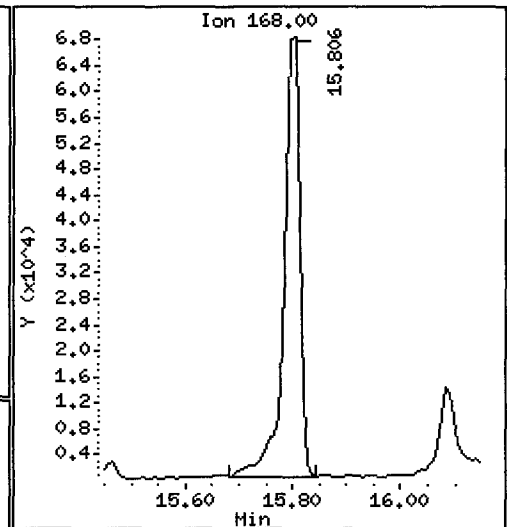
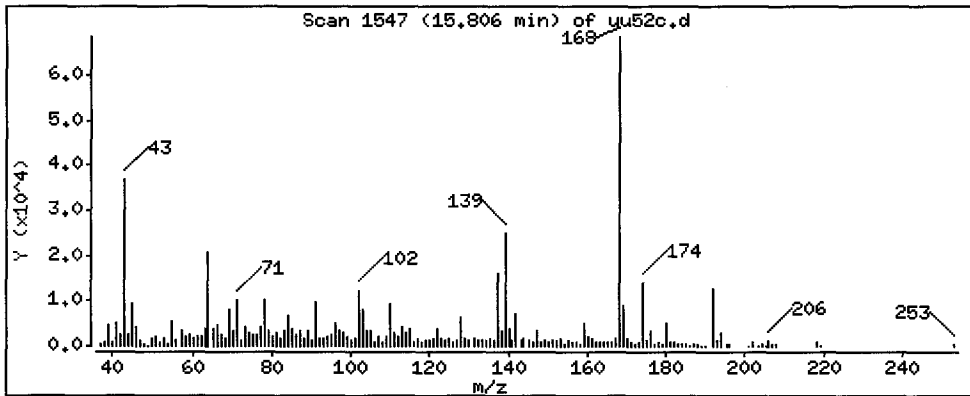
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 238.0 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

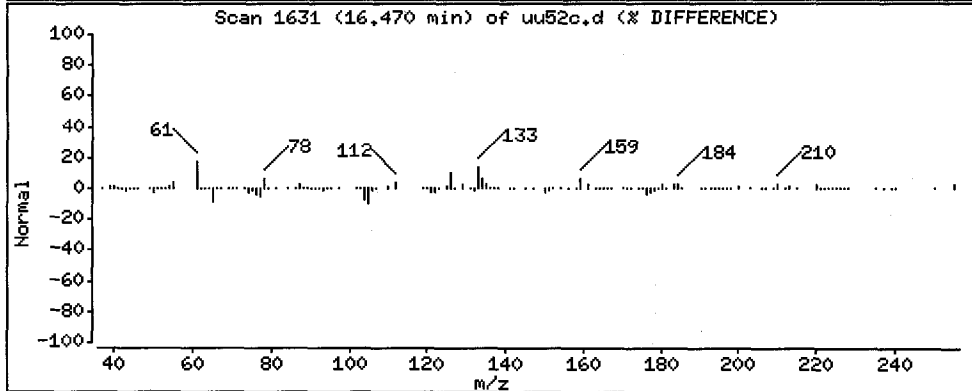
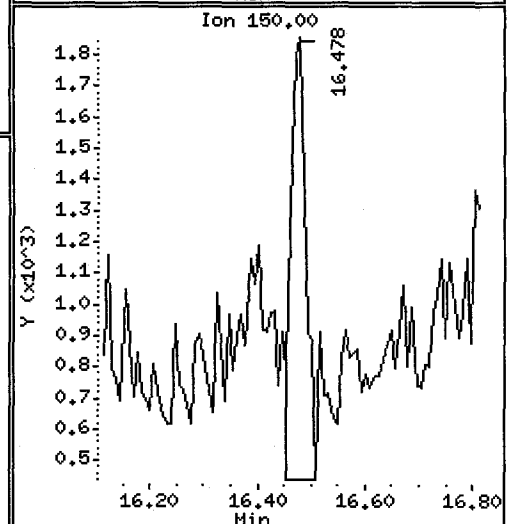
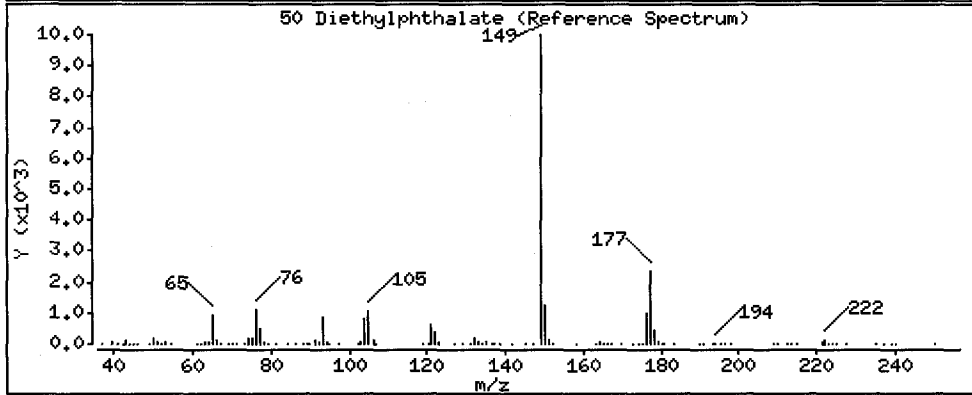
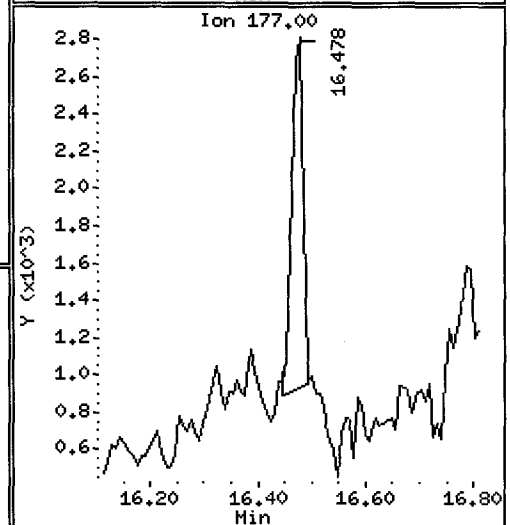
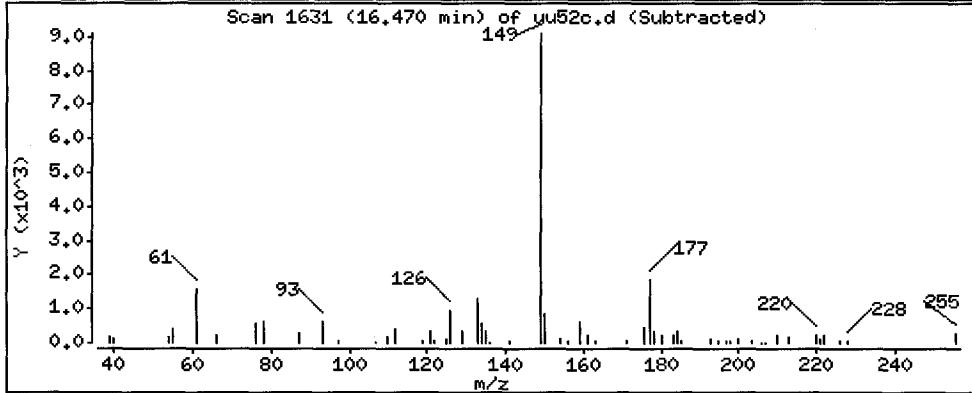
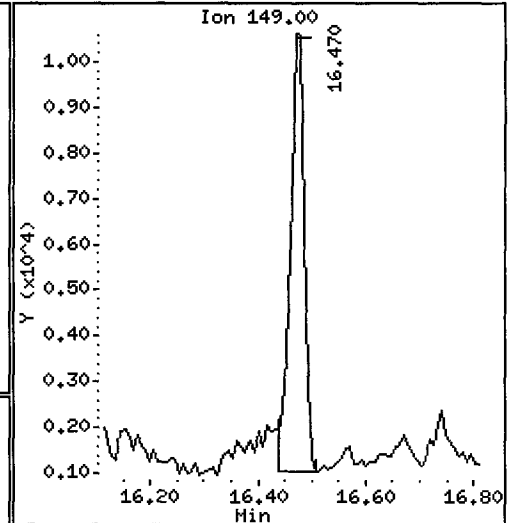
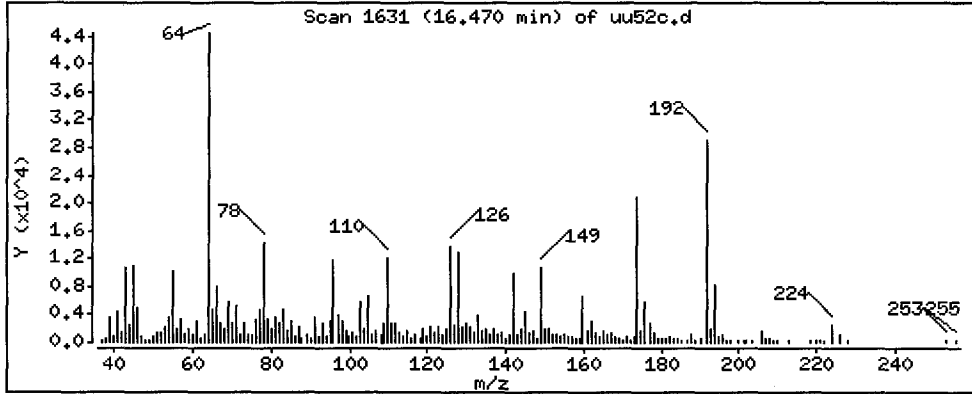
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 40.74 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

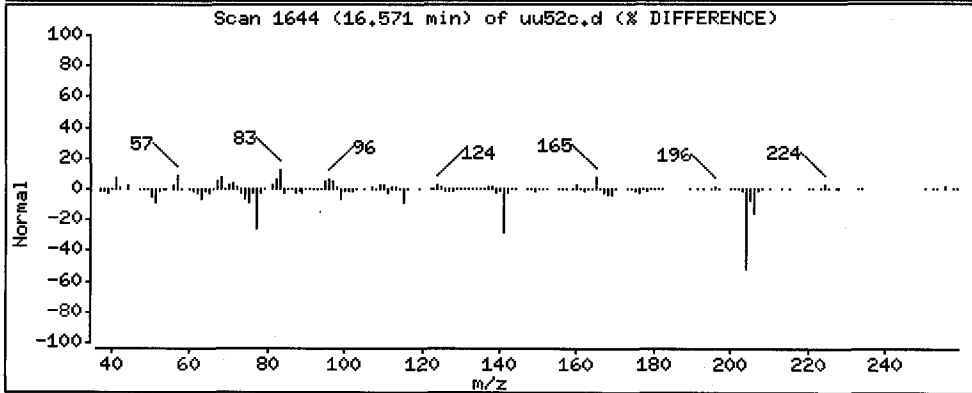
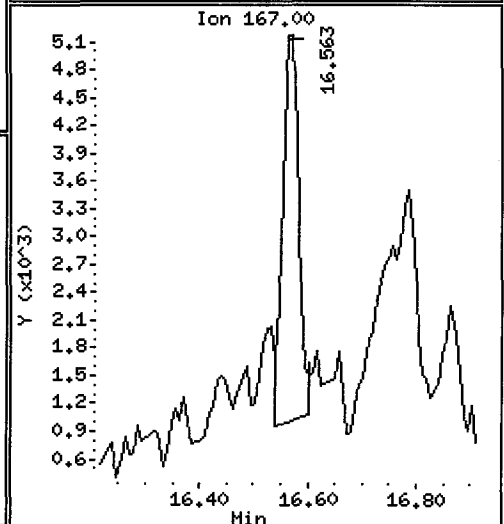
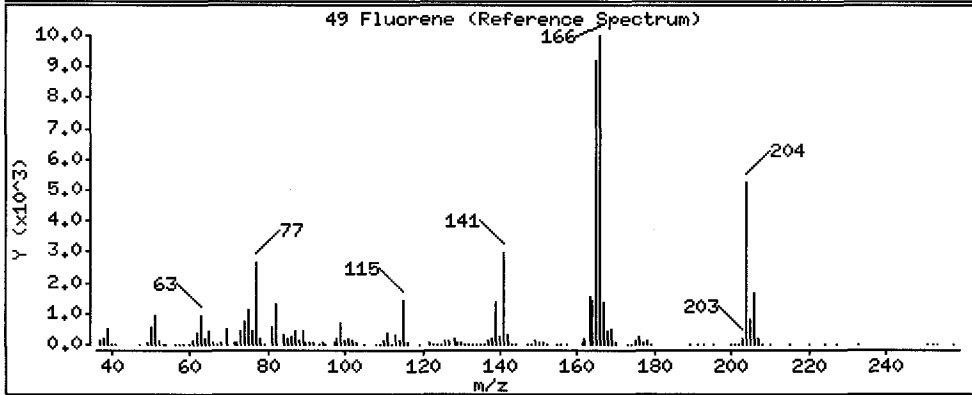
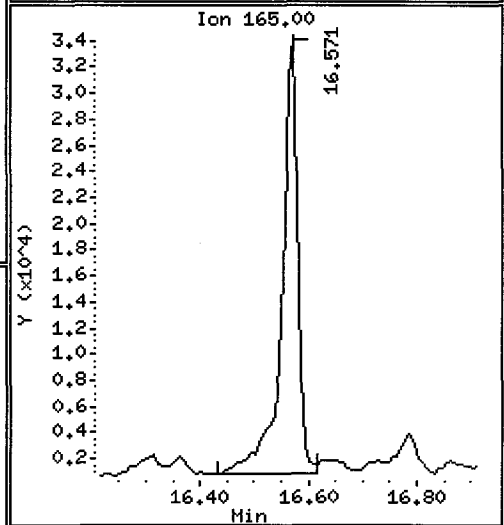
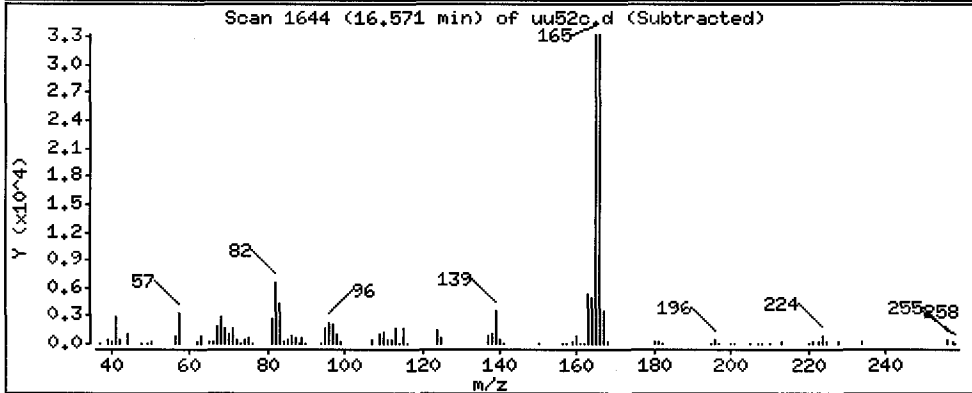
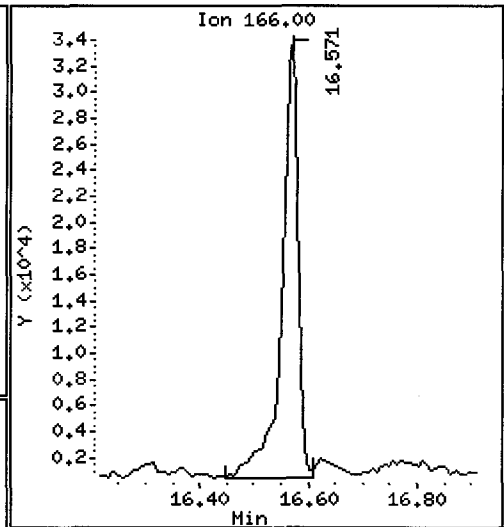
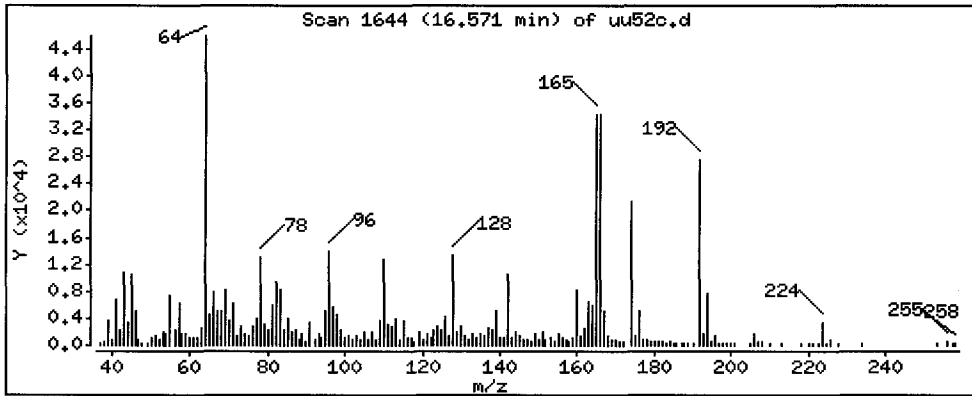
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 161.6 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

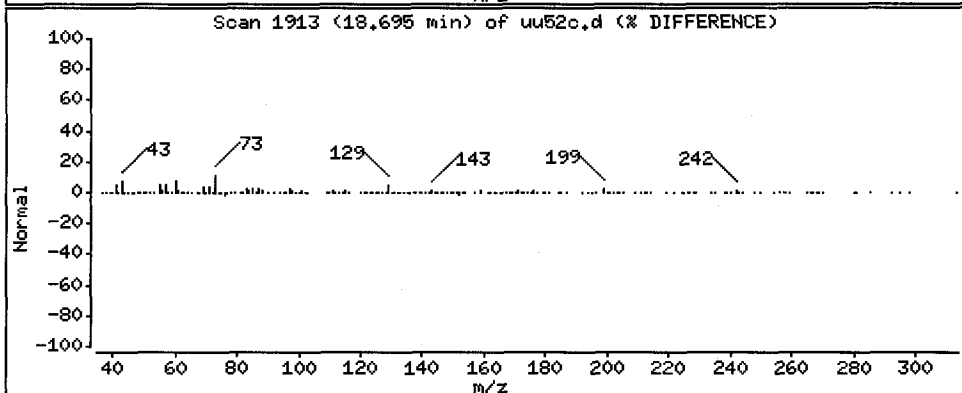
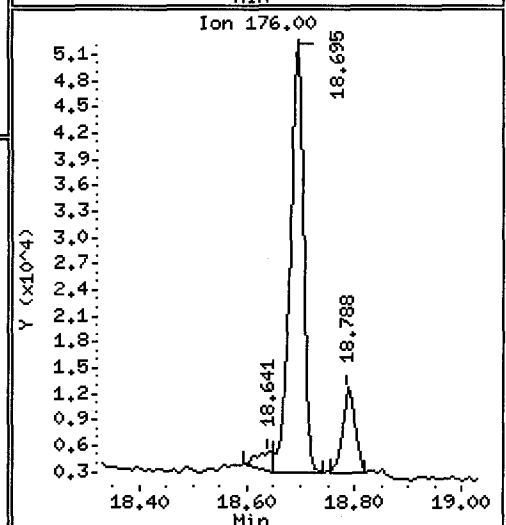
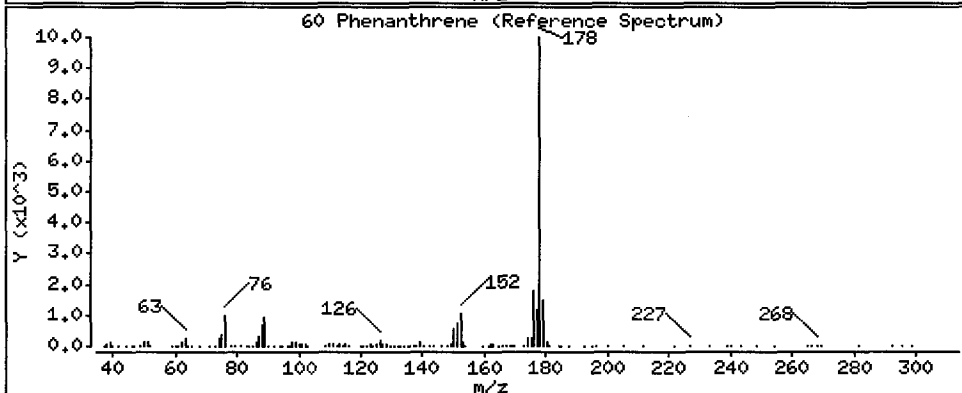
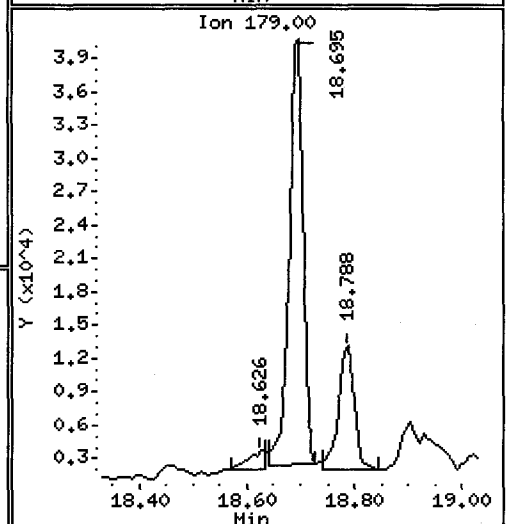
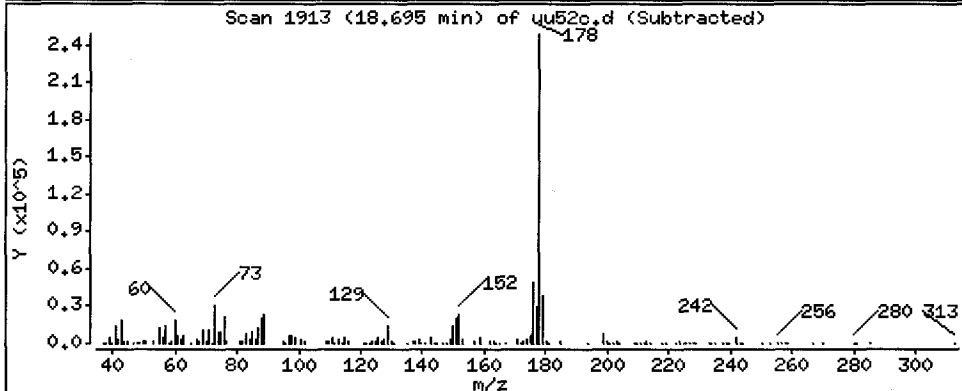
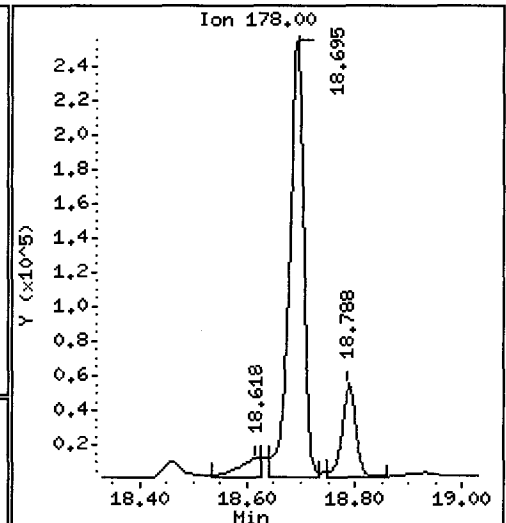
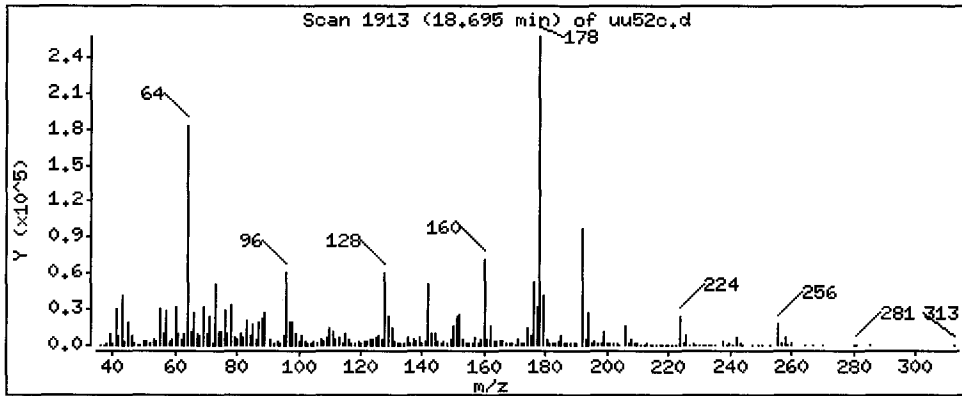
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 832.8 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

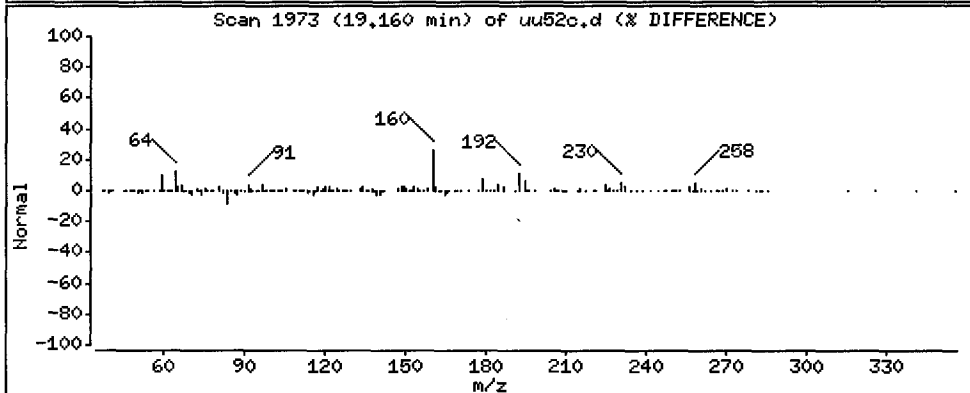
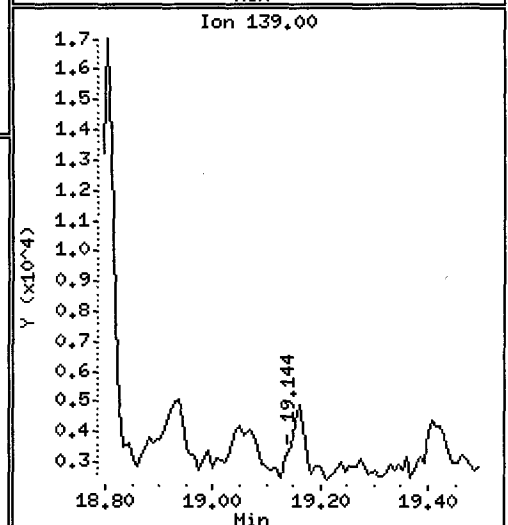
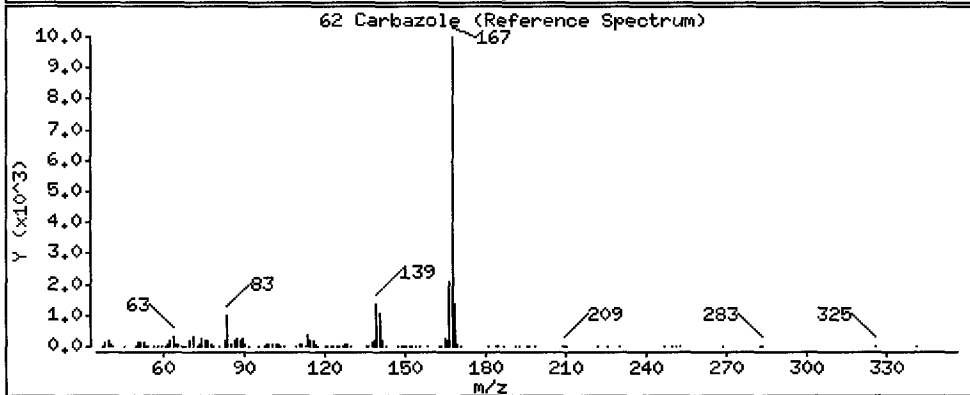
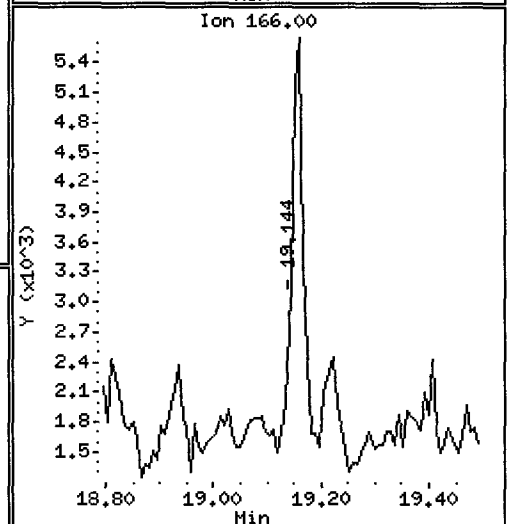
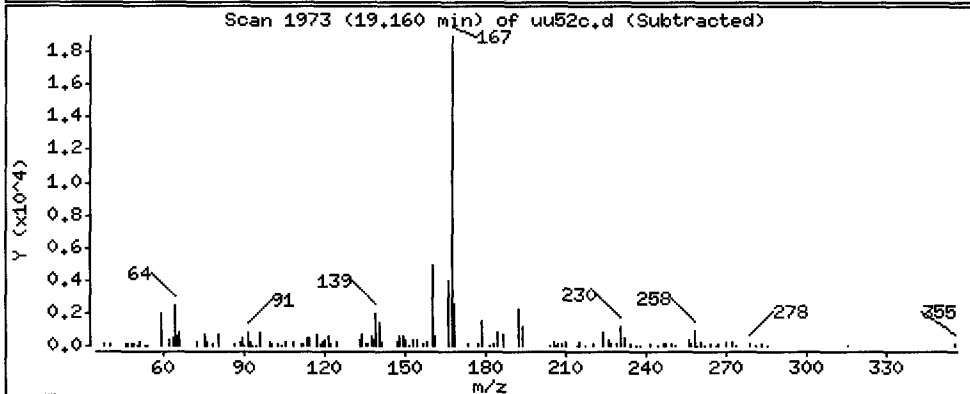
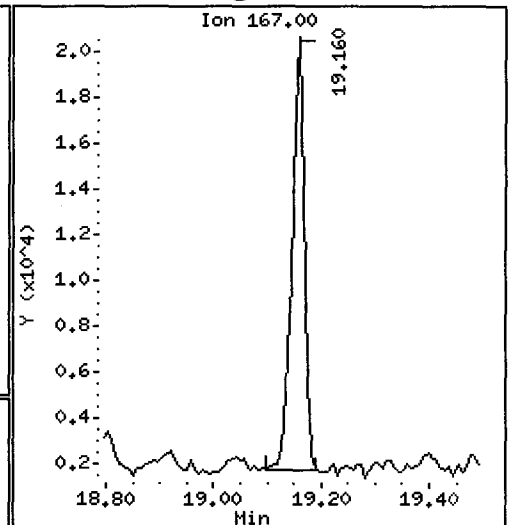
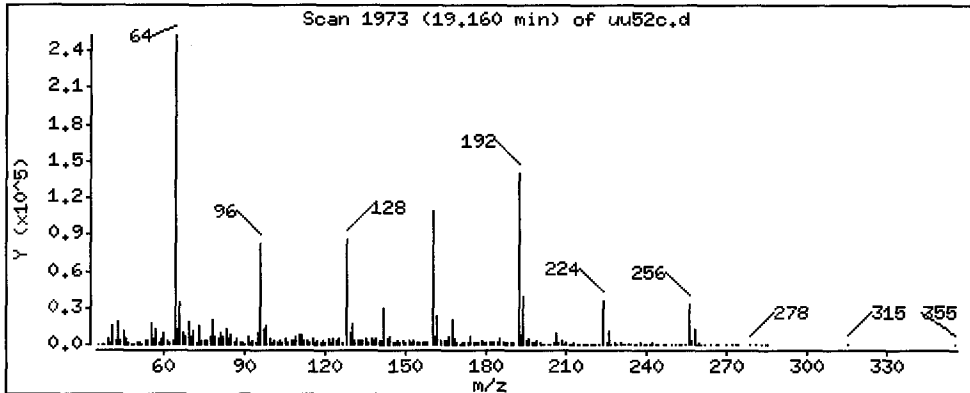
Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 55.46 ug/kg

PCR



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

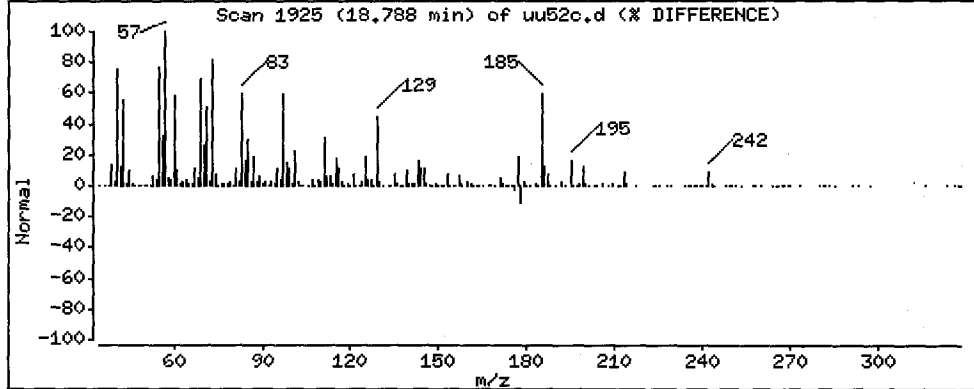
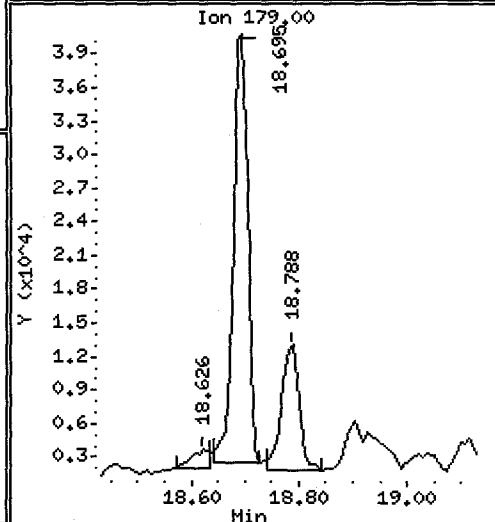
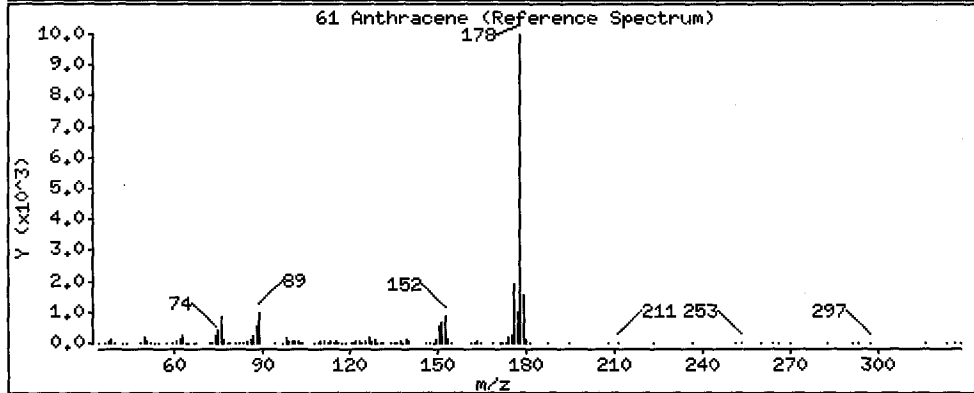
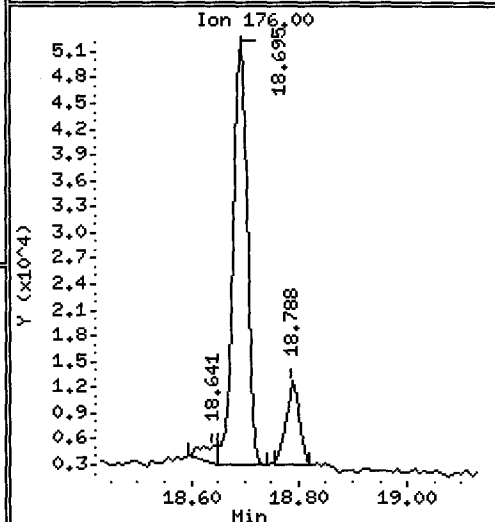
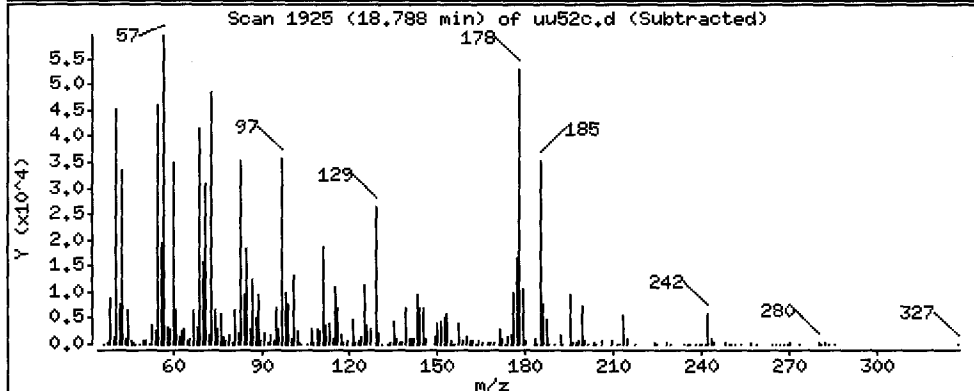
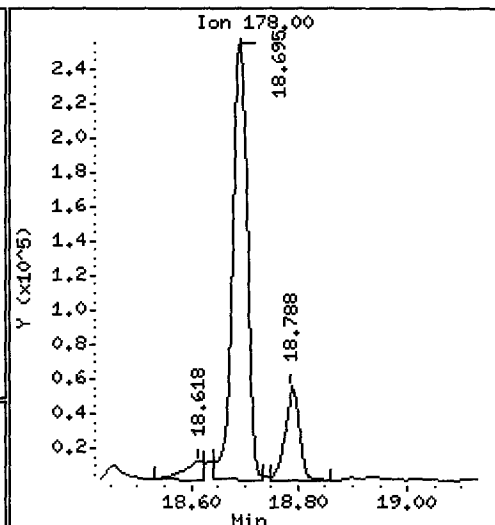
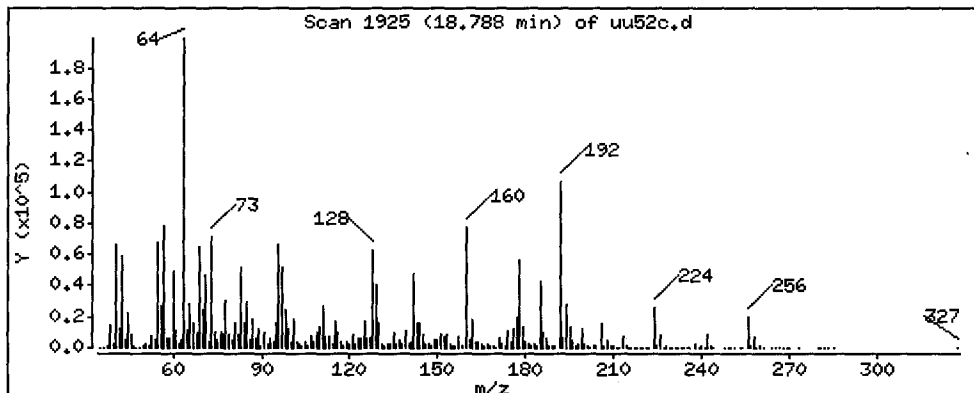
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 165.5 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

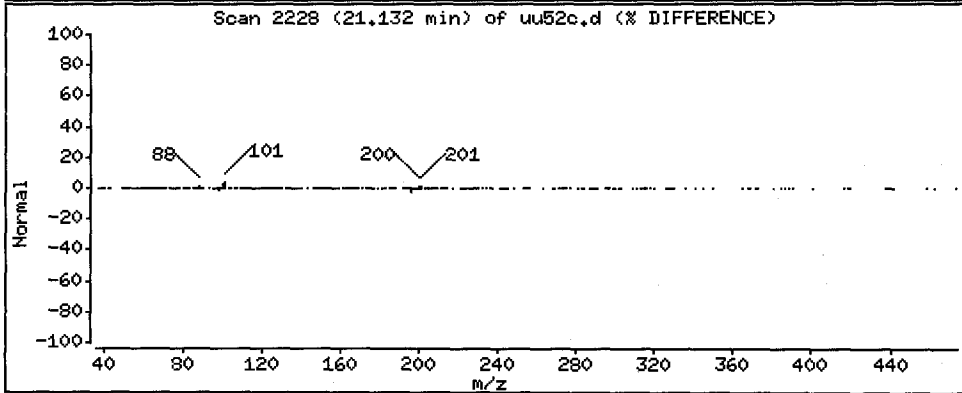
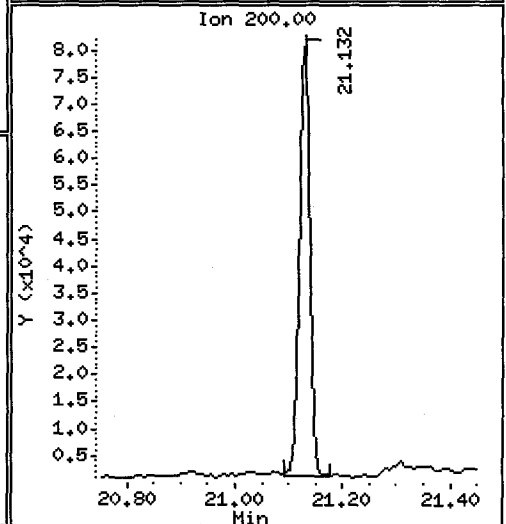
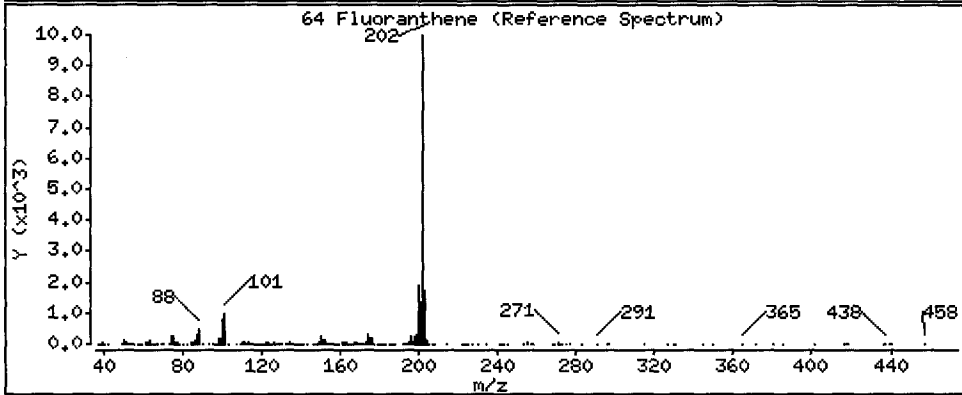
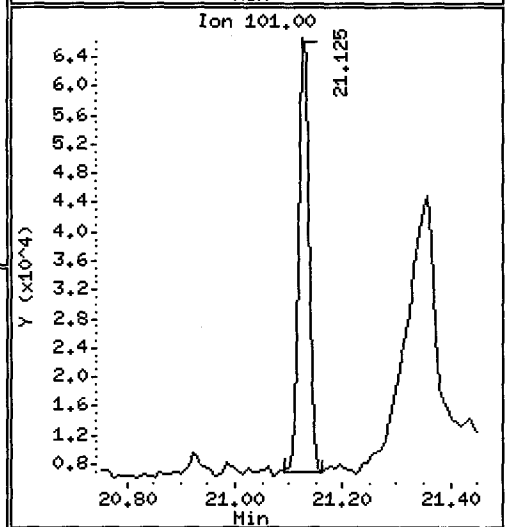
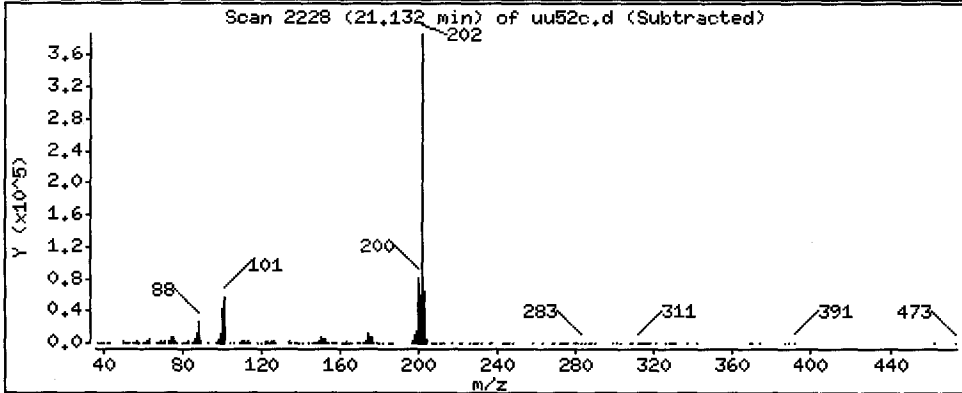
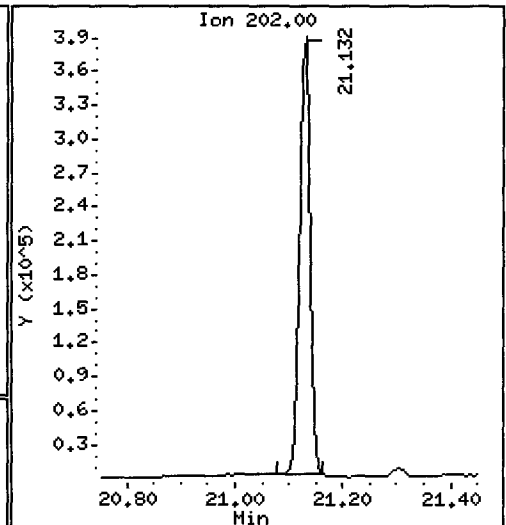
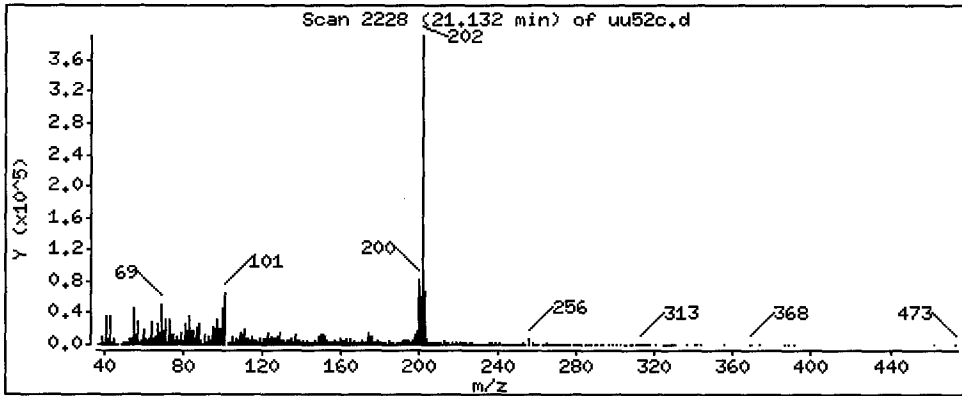
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 861.2 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

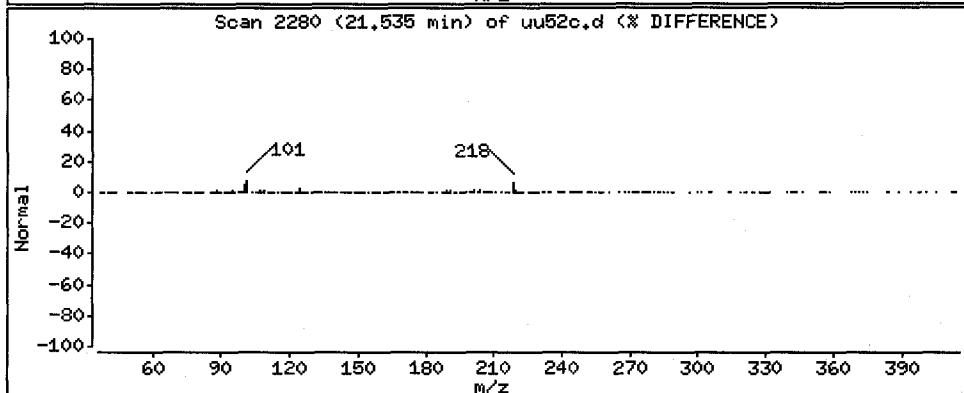
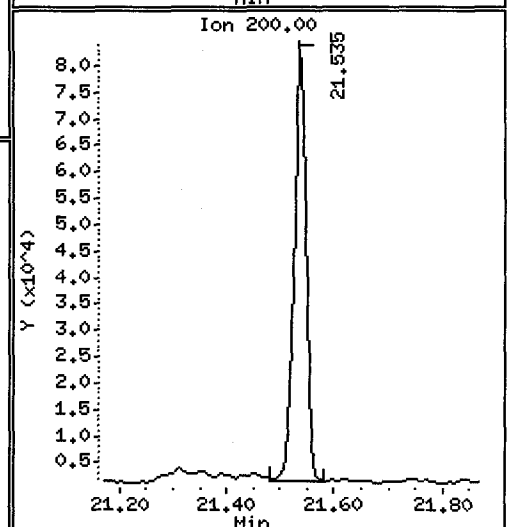
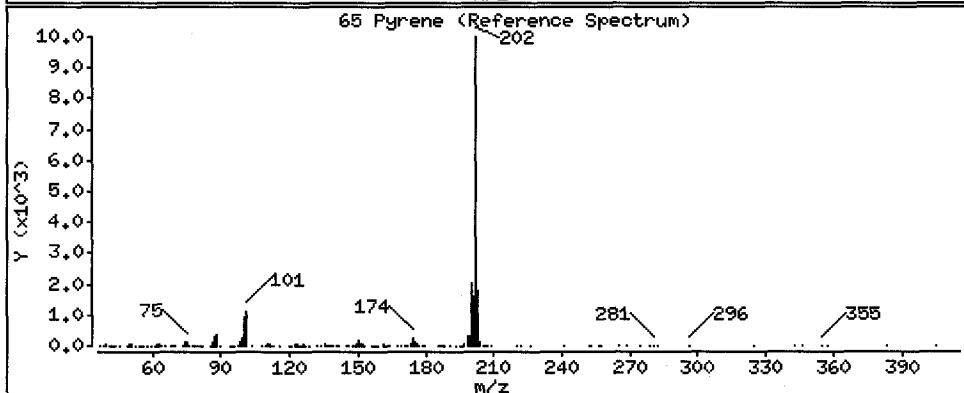
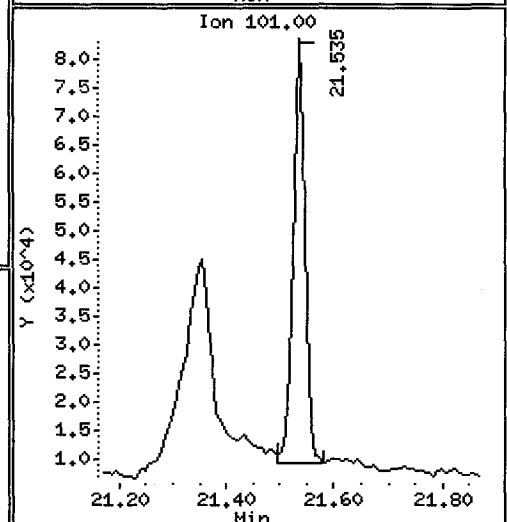
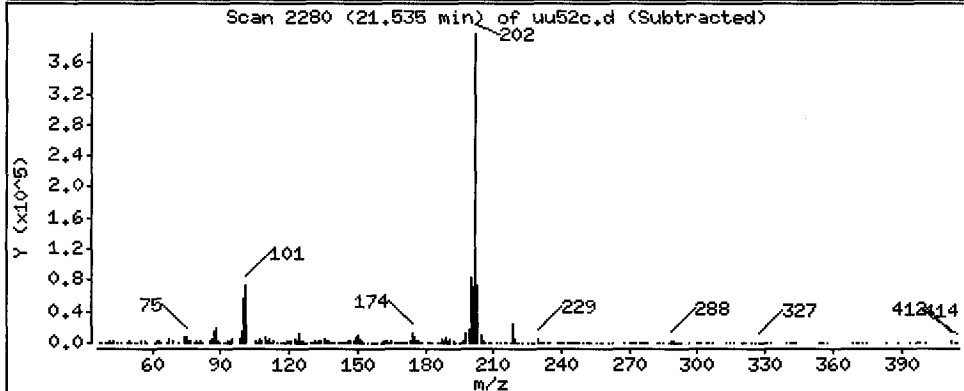
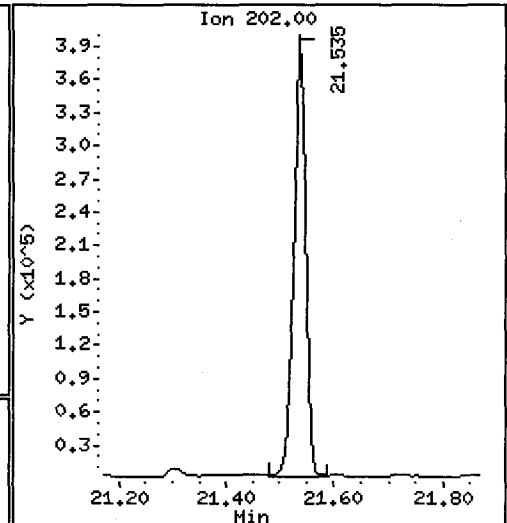
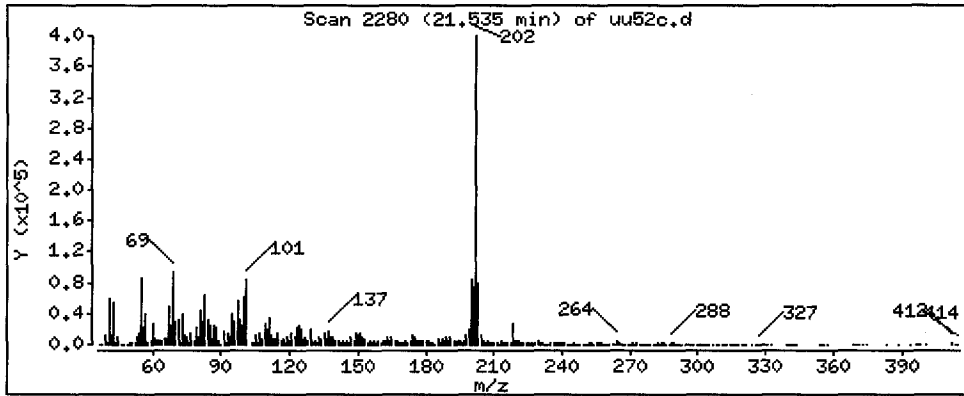
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 858.4 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

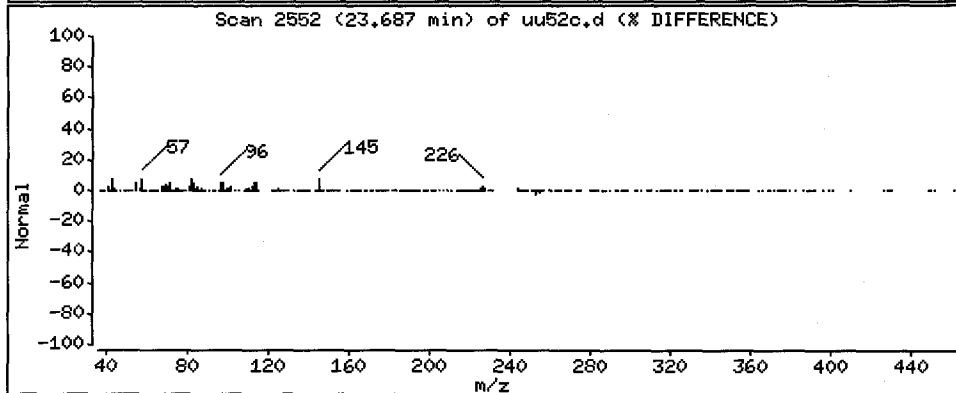
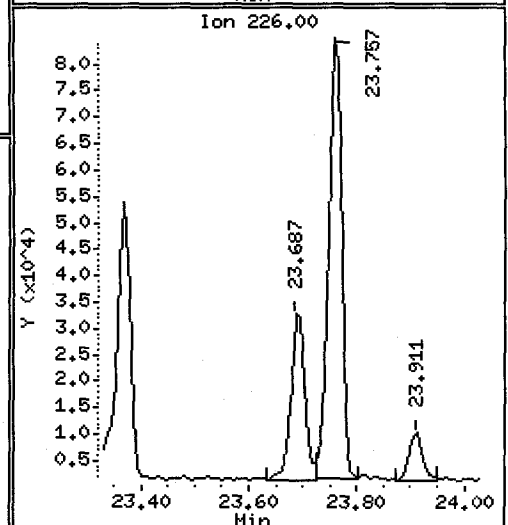
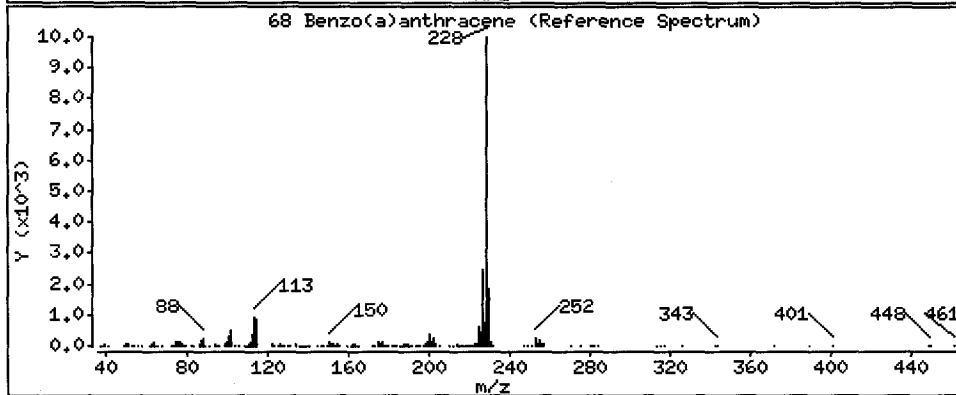
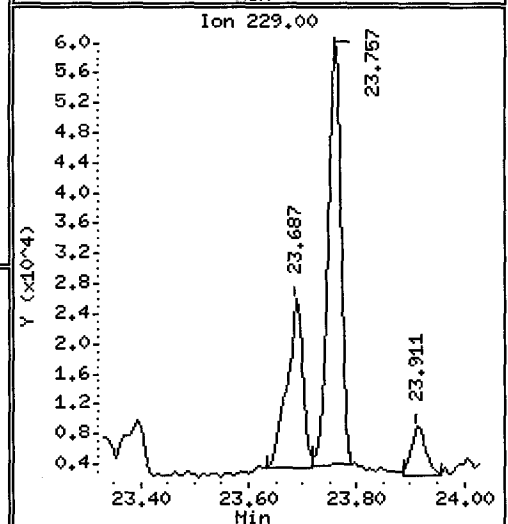
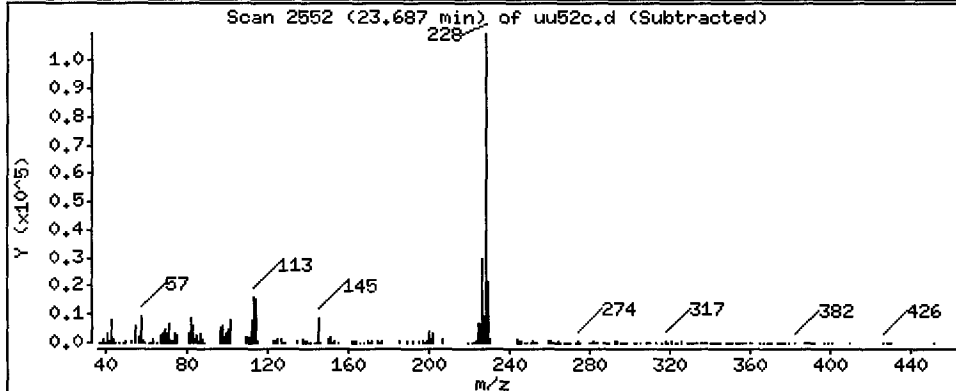
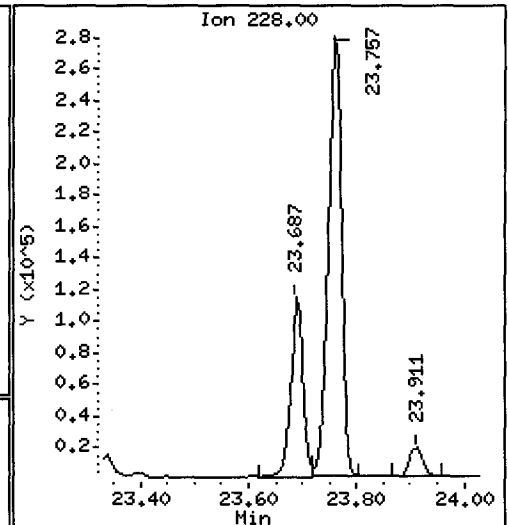
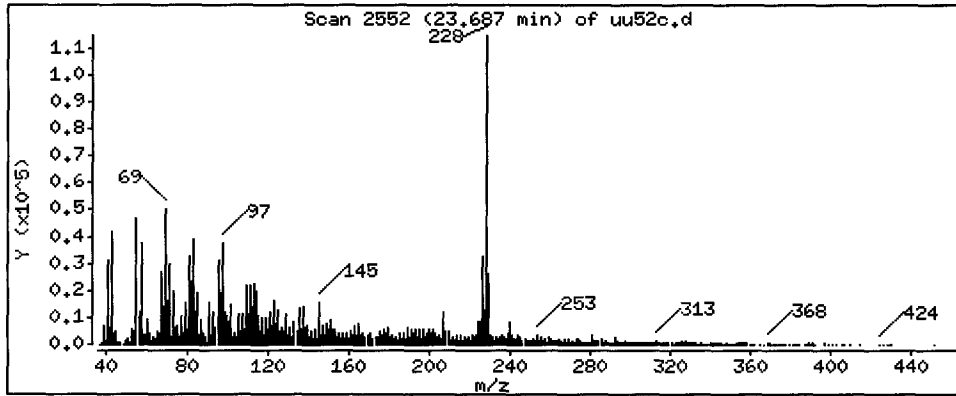
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 277.4 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

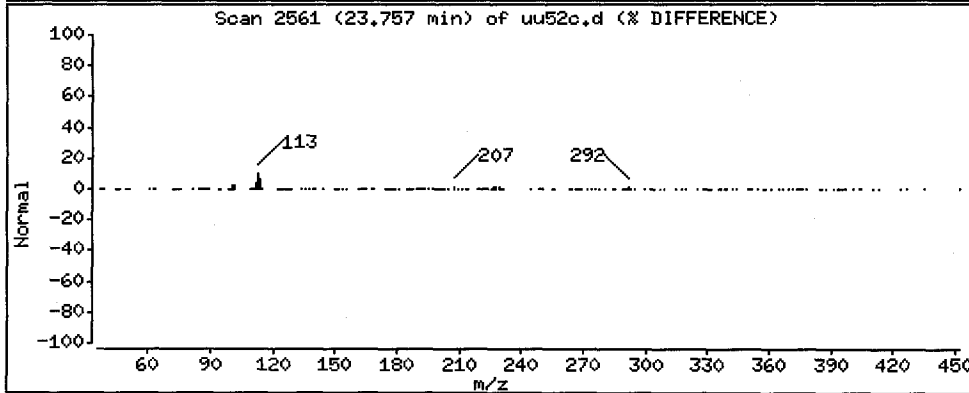
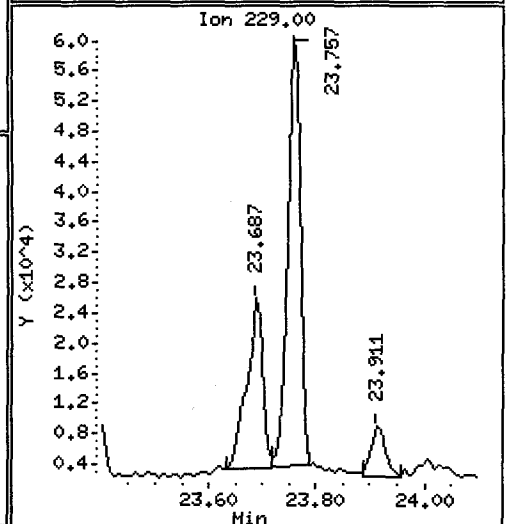
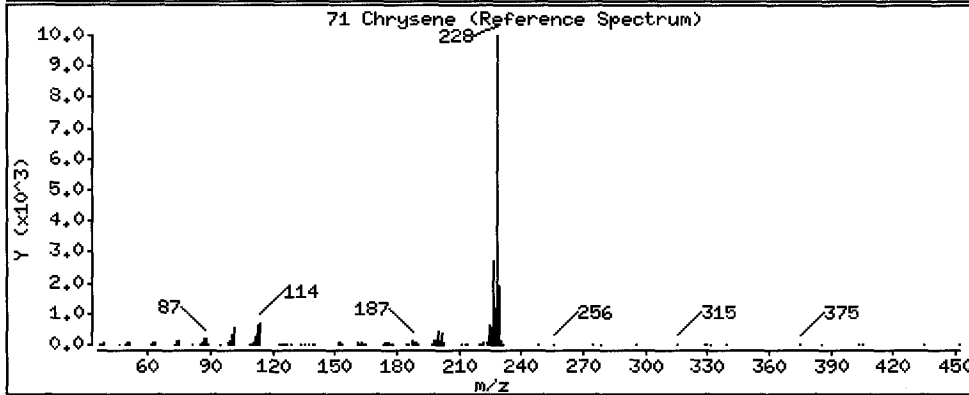
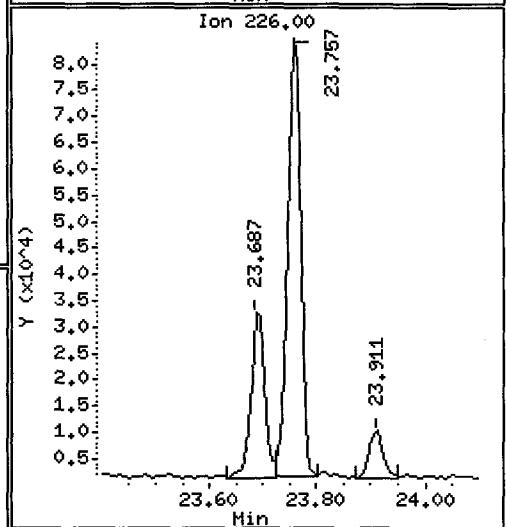
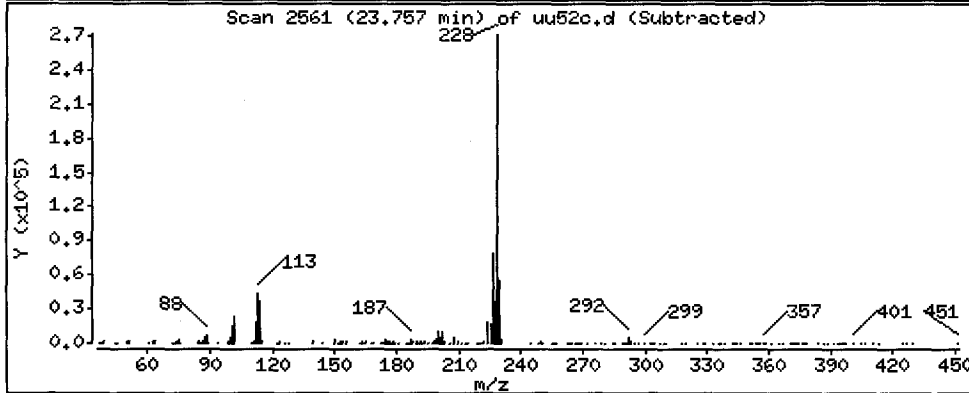
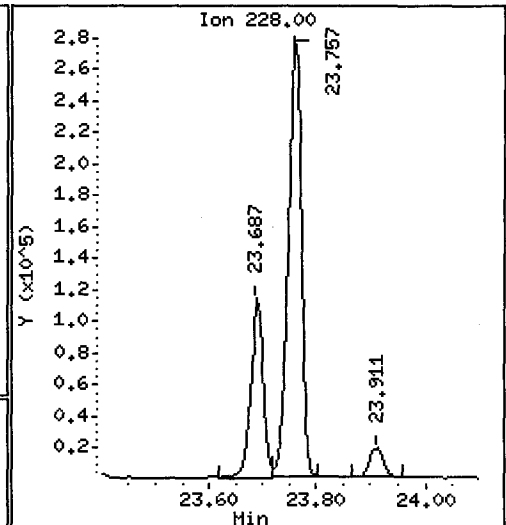
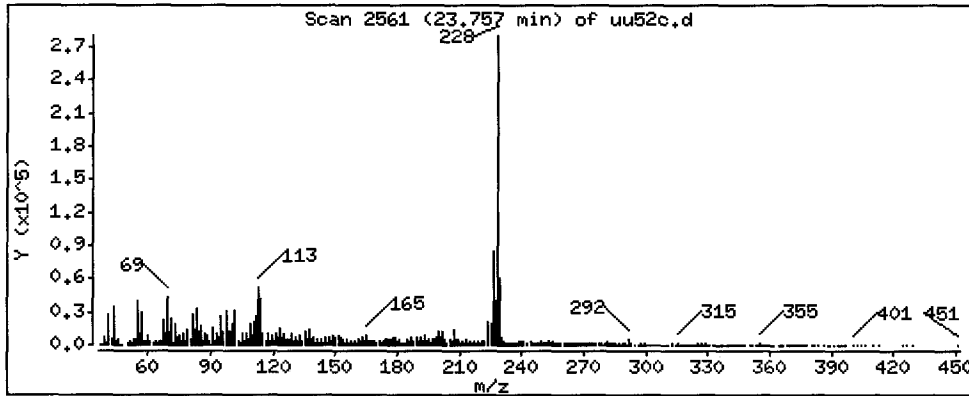
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 796.4 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

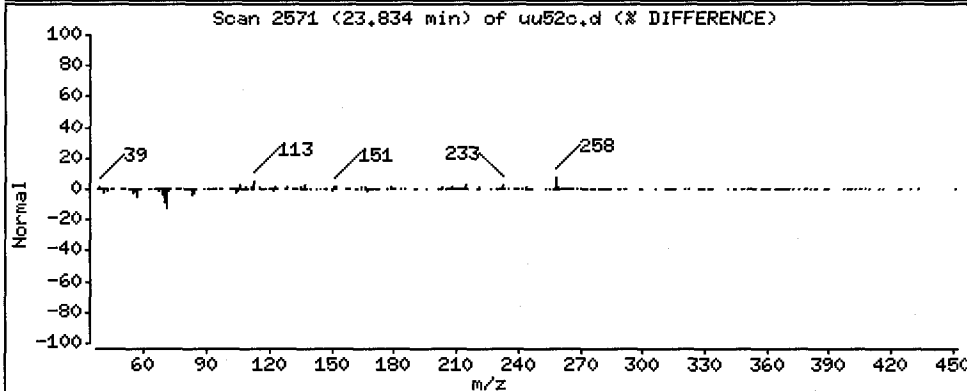
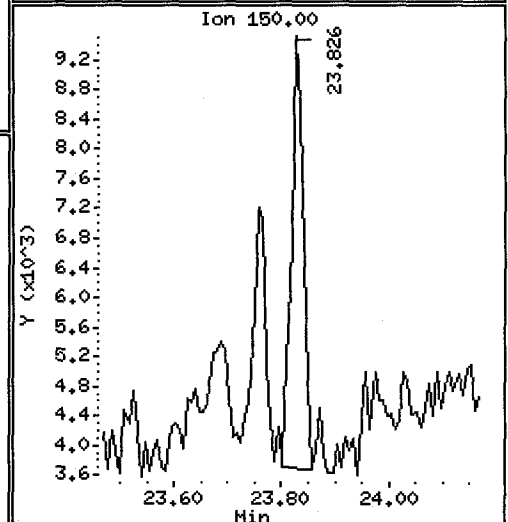
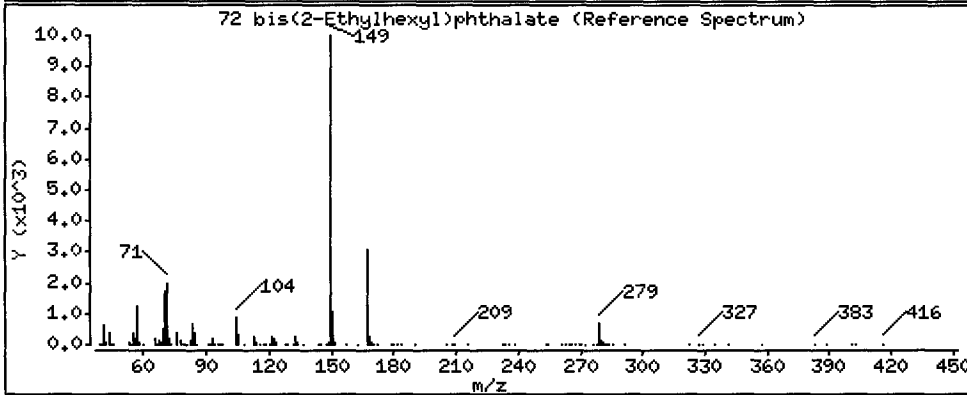
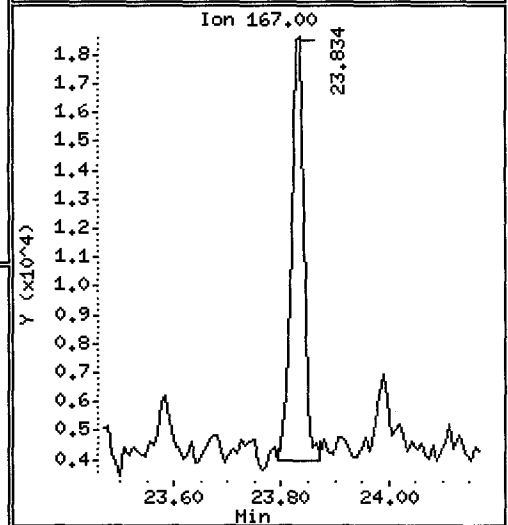
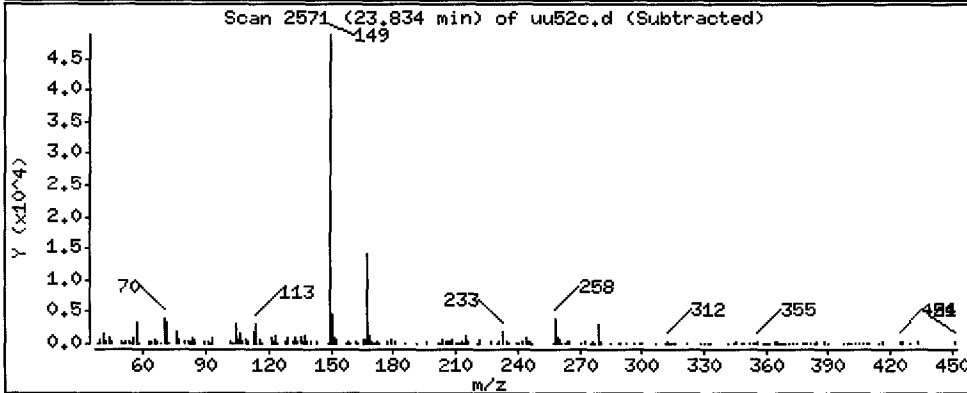
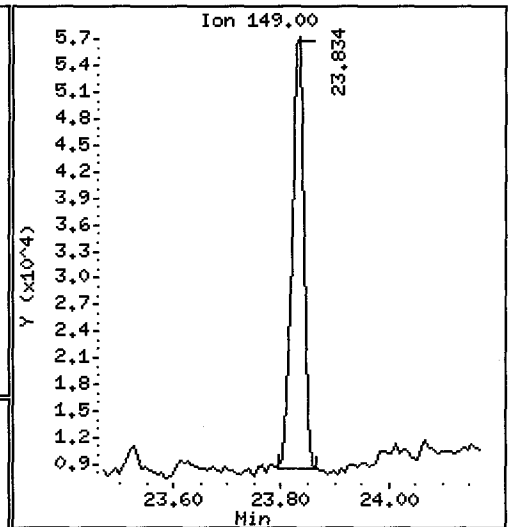
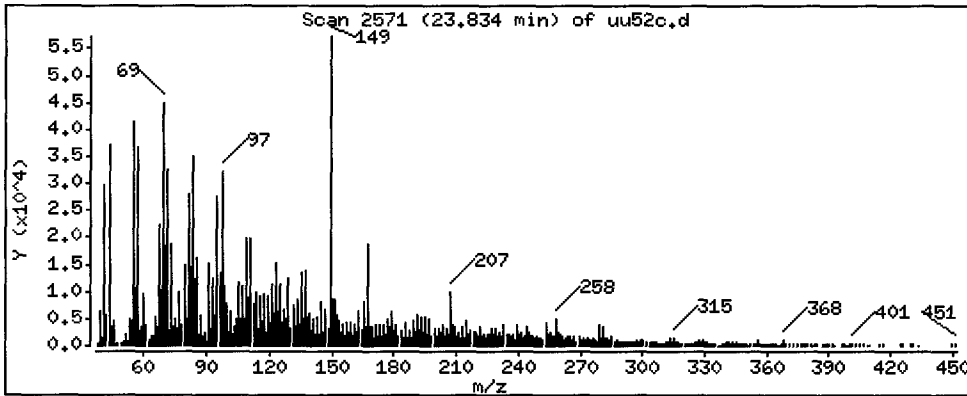
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

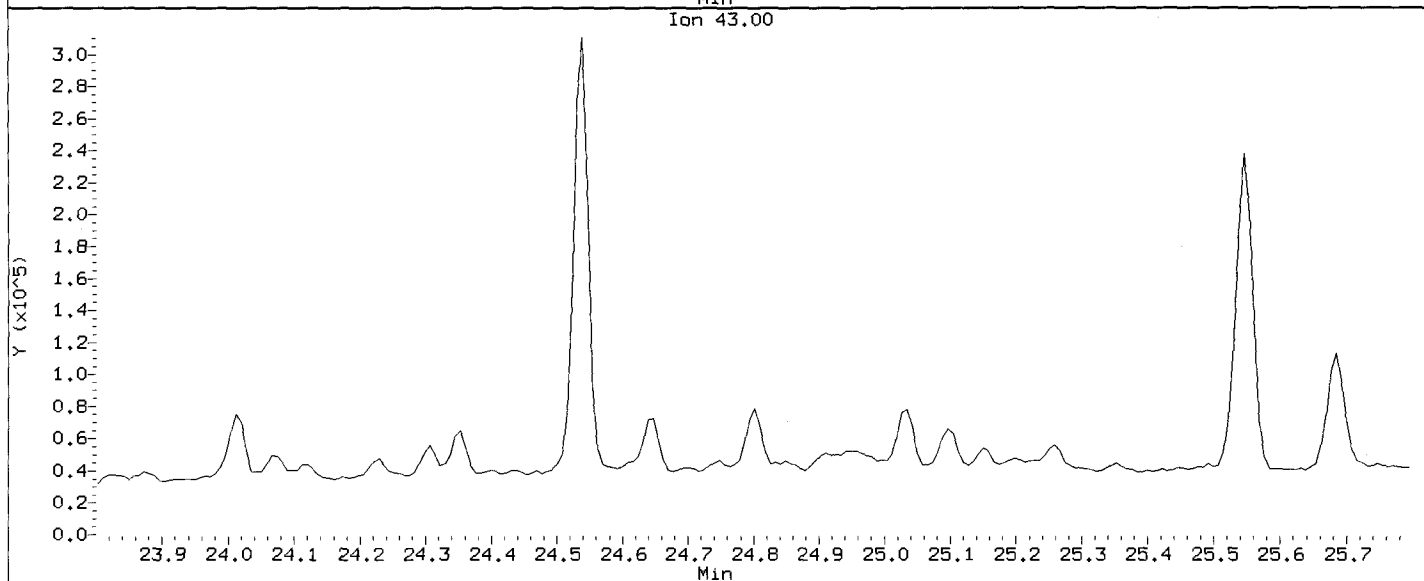
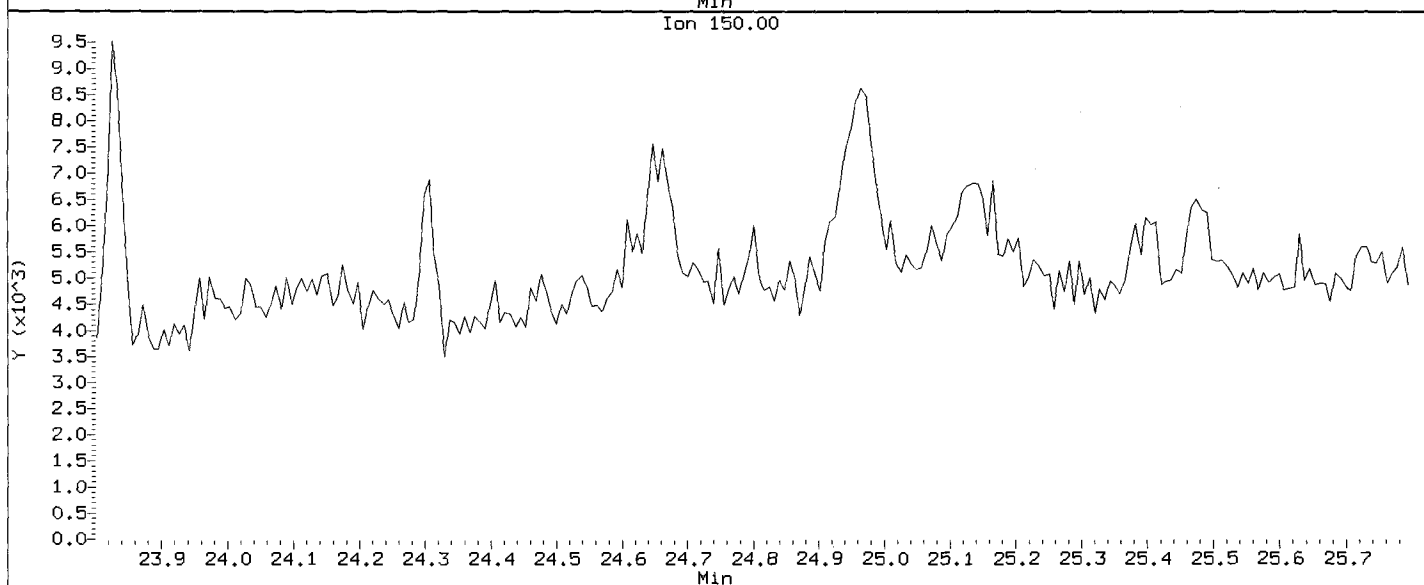
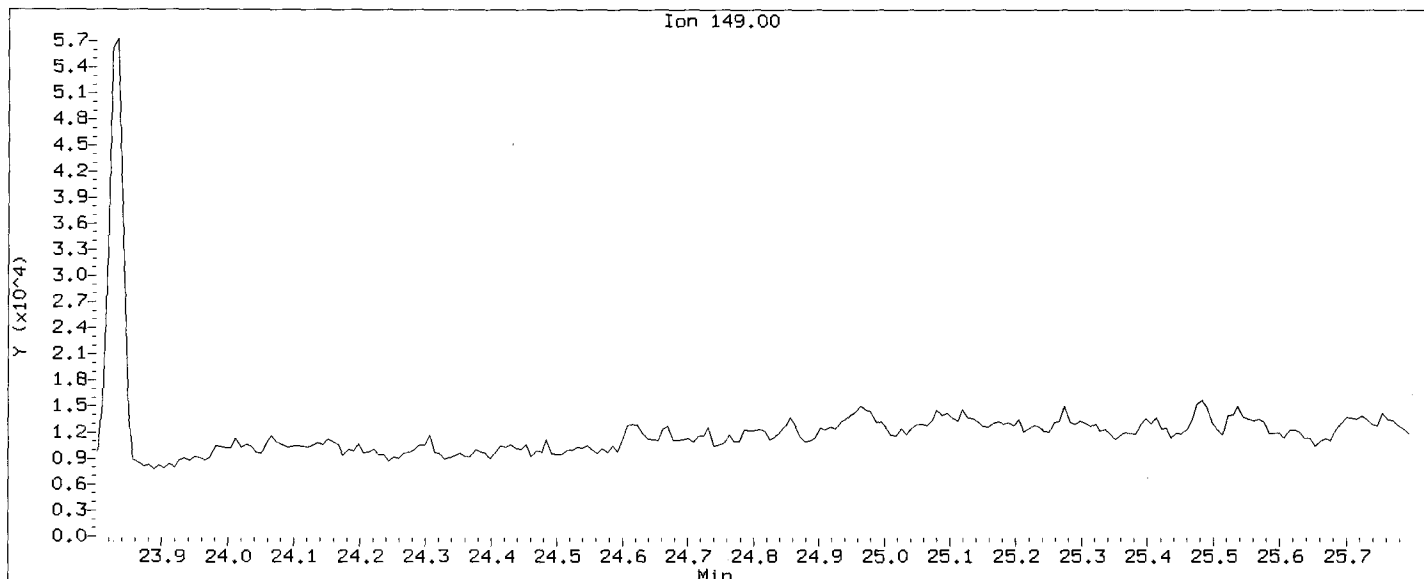
72 bis(2-Ethylhexyl)phthalate

Concentration: 149.9 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52c.d
Injection Date: 26-MAY-2012 18:25
Instrument: nt10.i
Client Sample ID: MS002-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

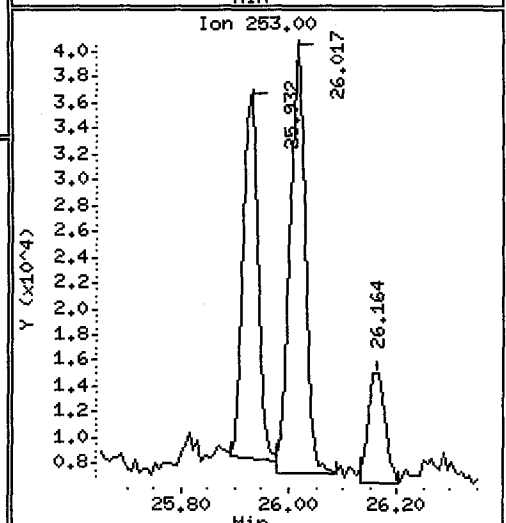
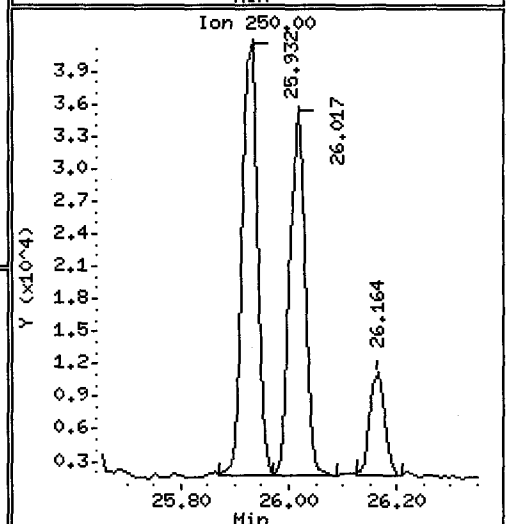
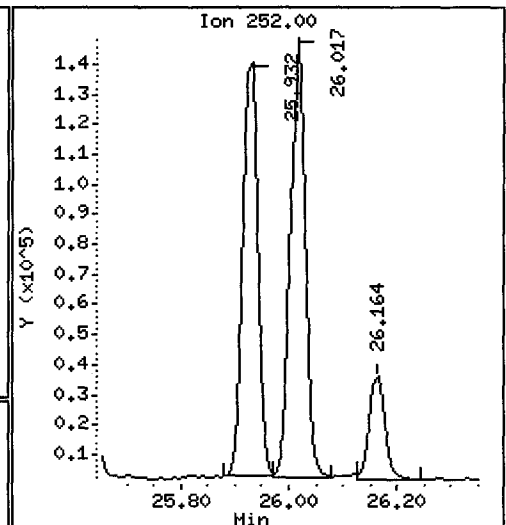
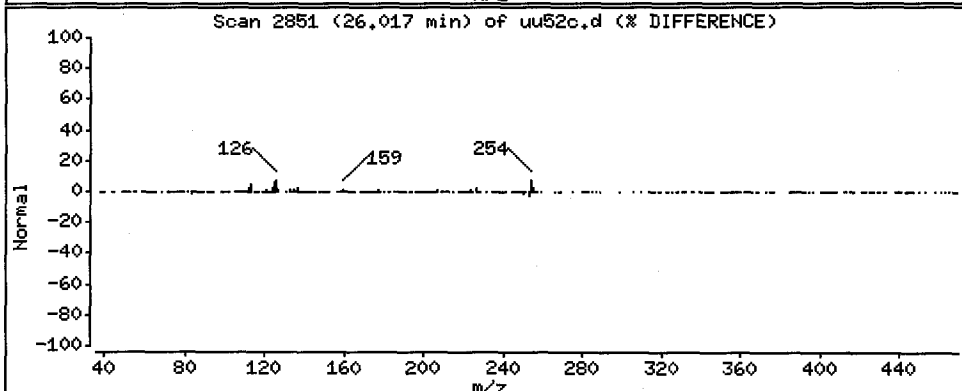
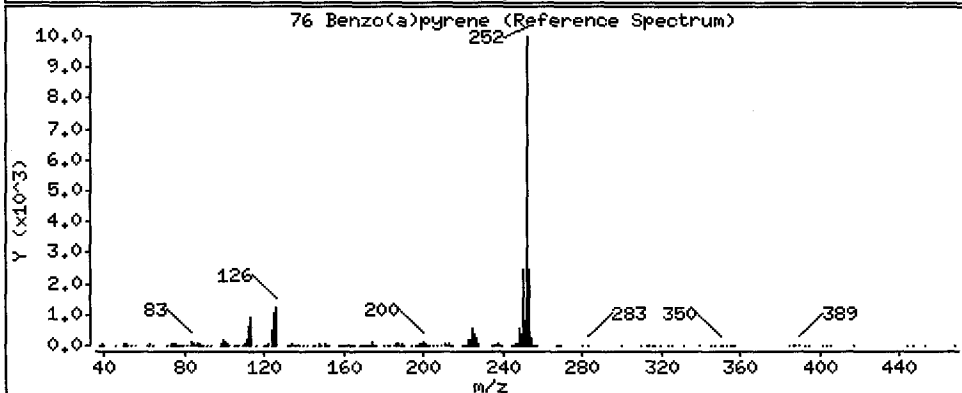
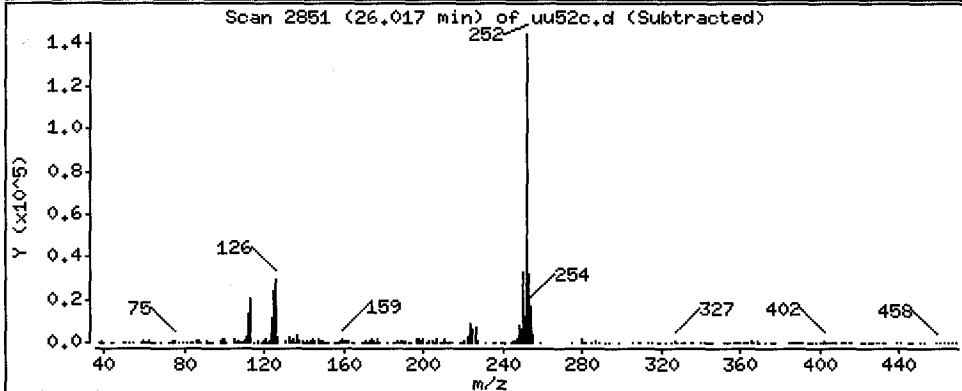
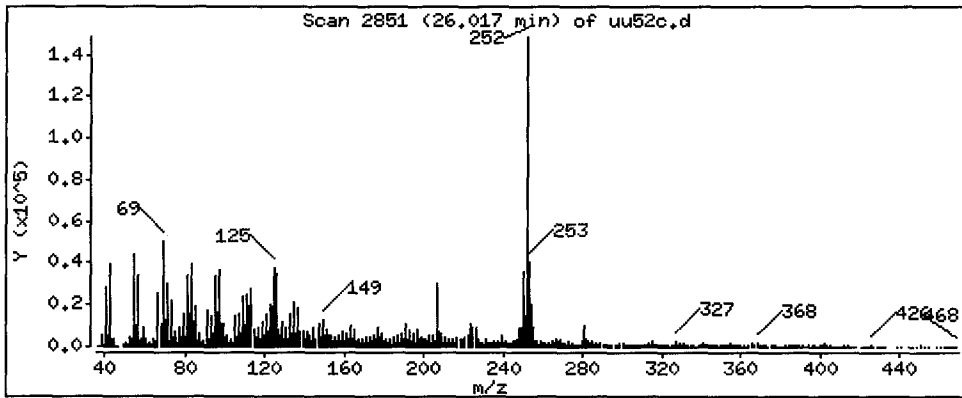
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 471.5 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

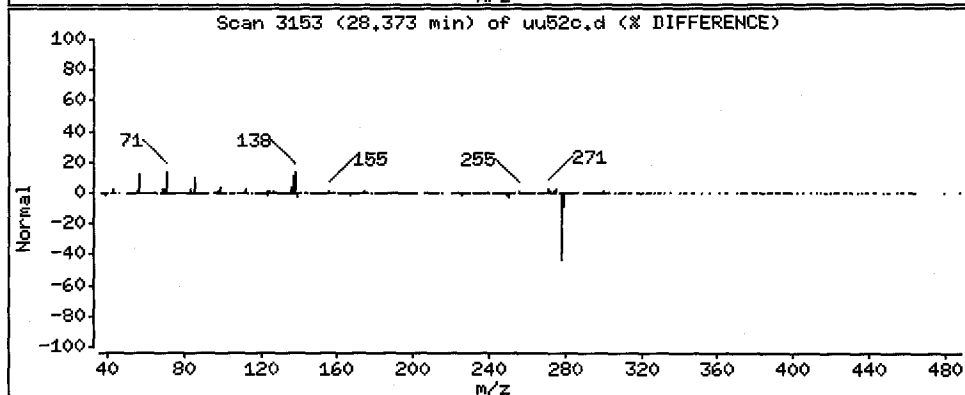
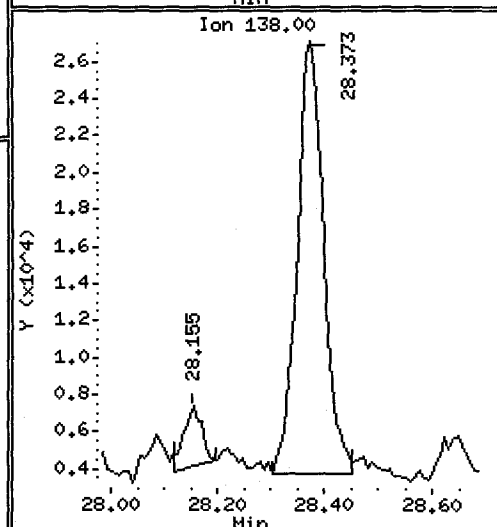
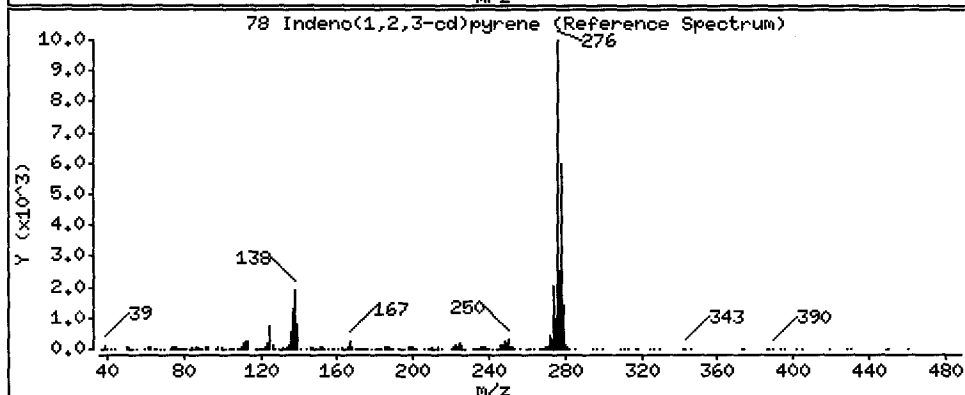
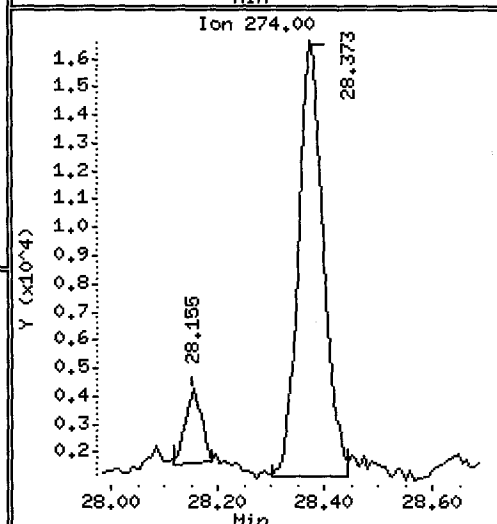
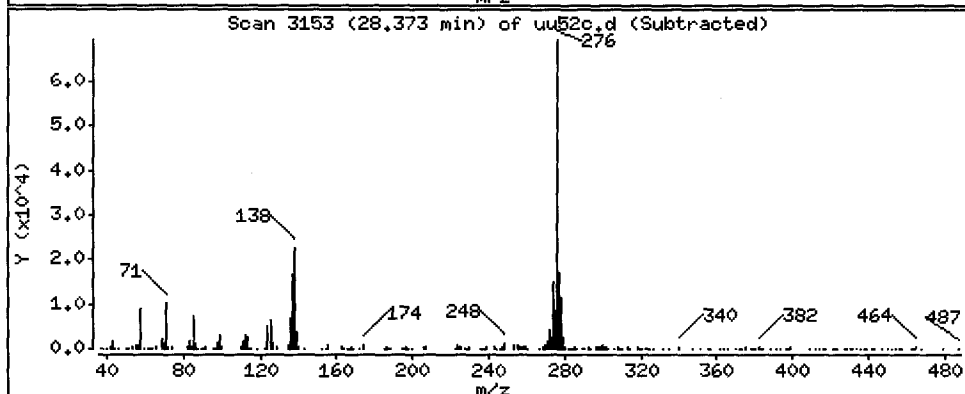
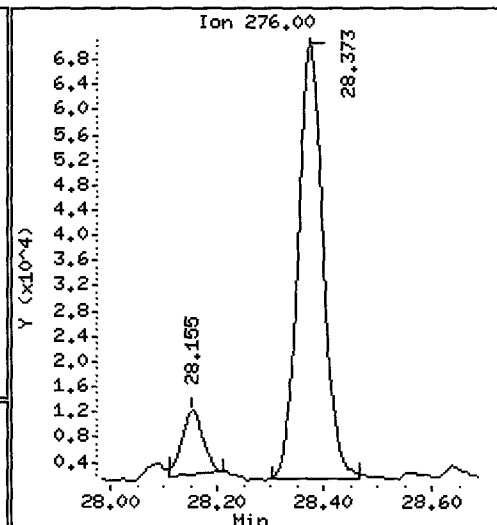
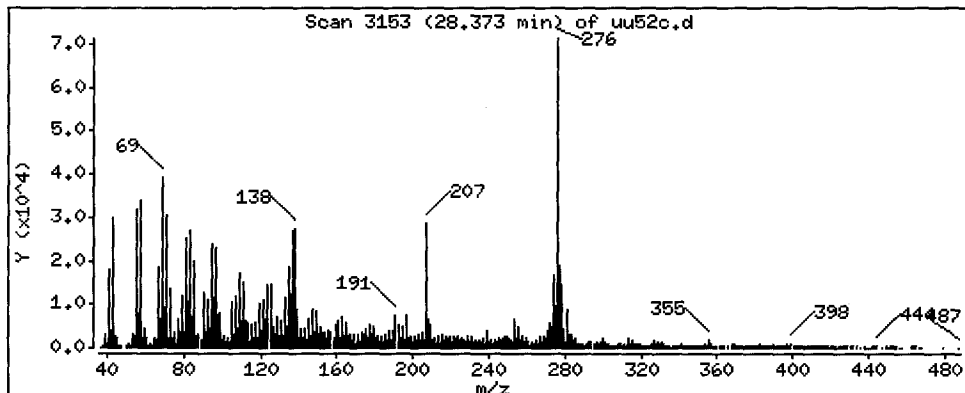
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 342.2 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

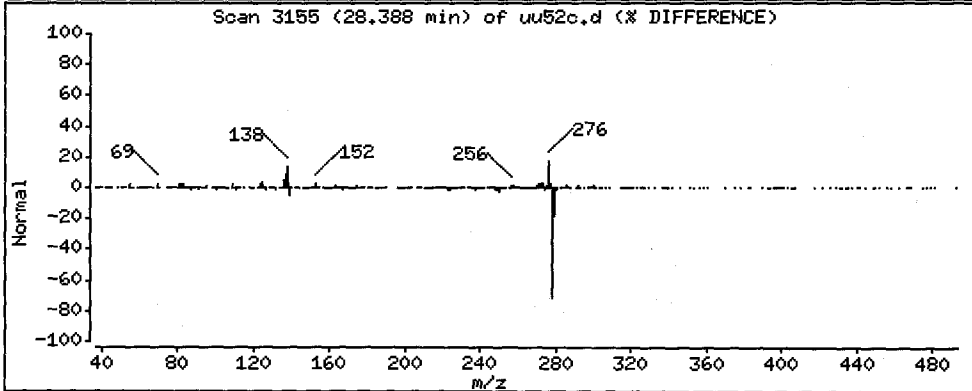
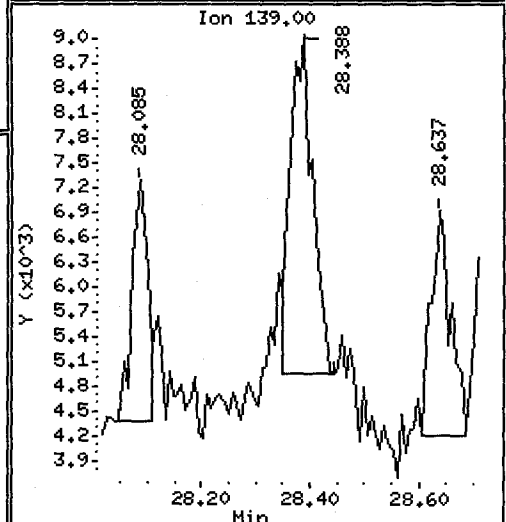
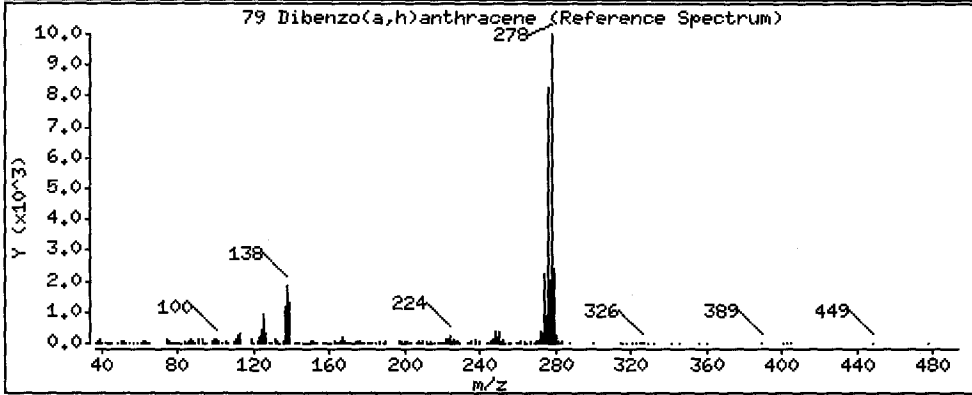
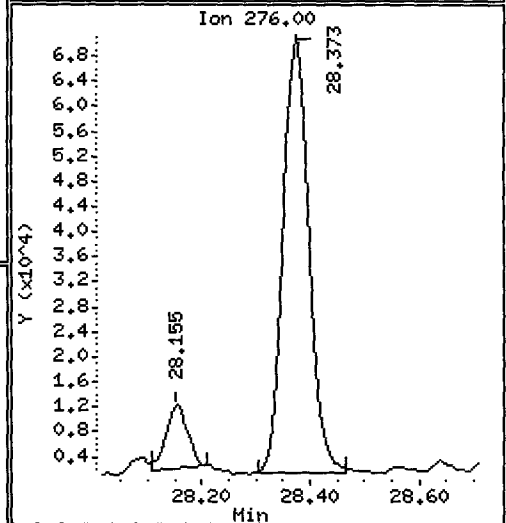
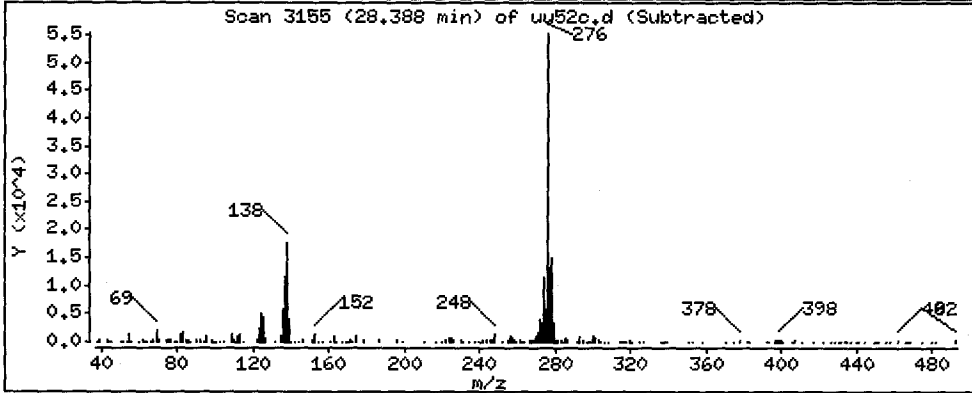
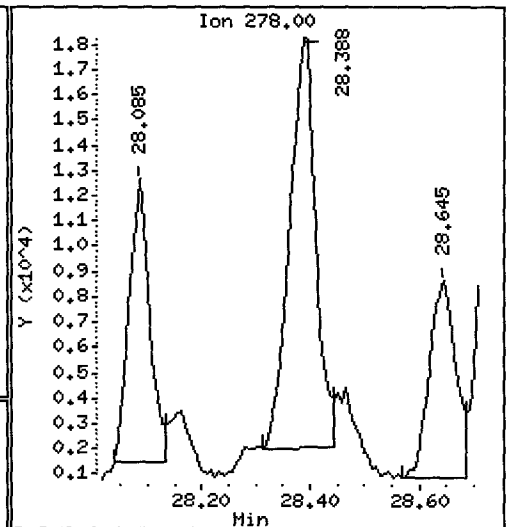
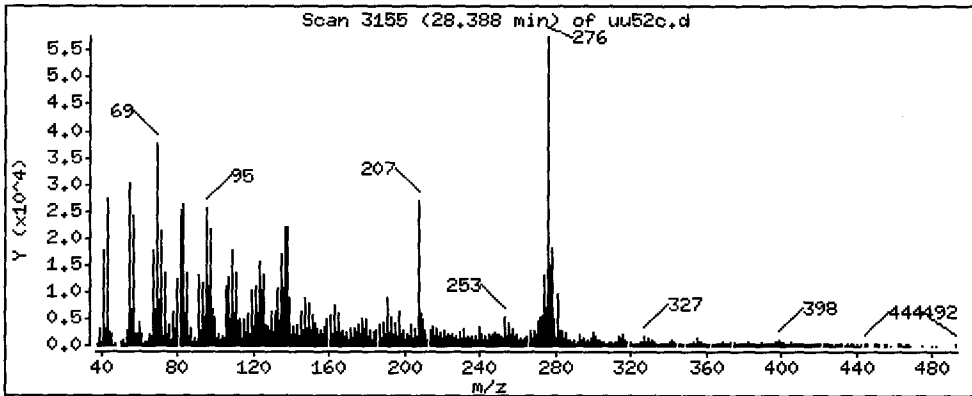
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 104.3 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

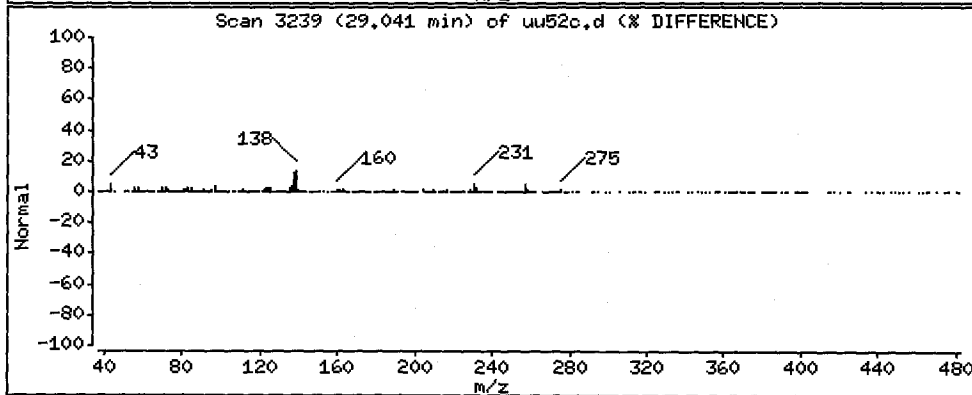
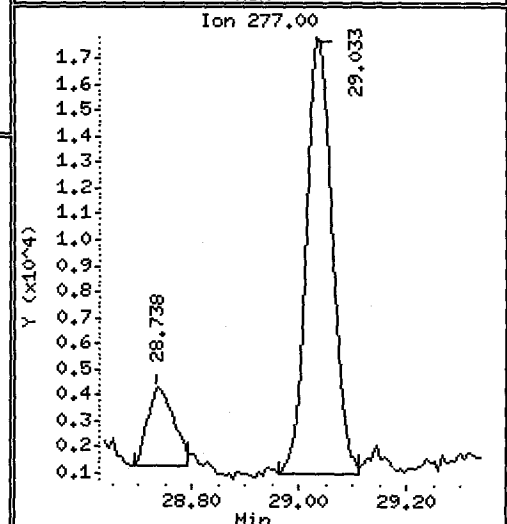
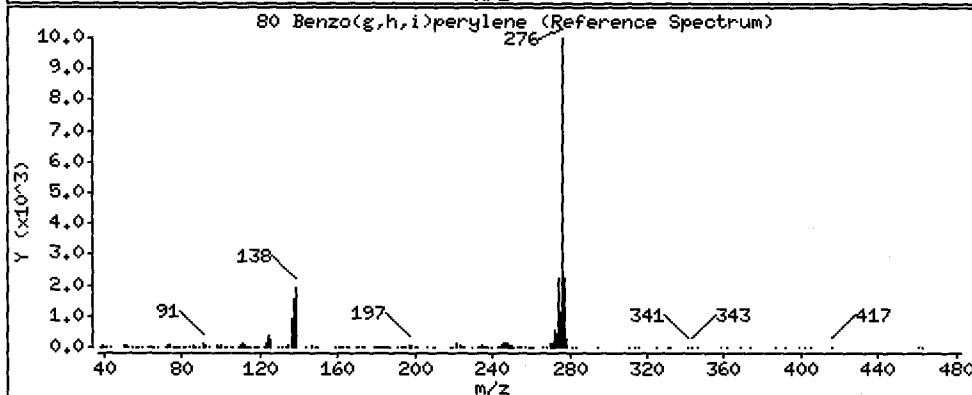
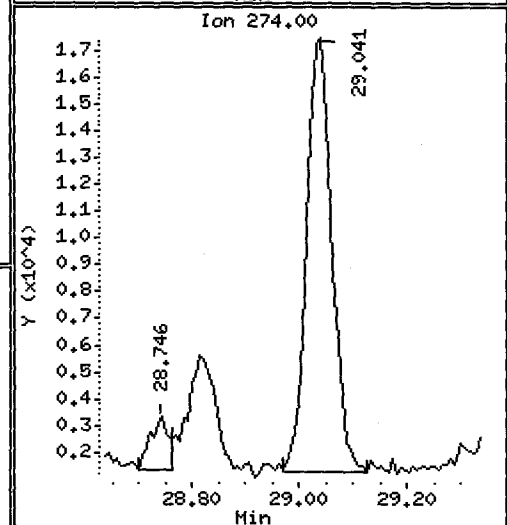
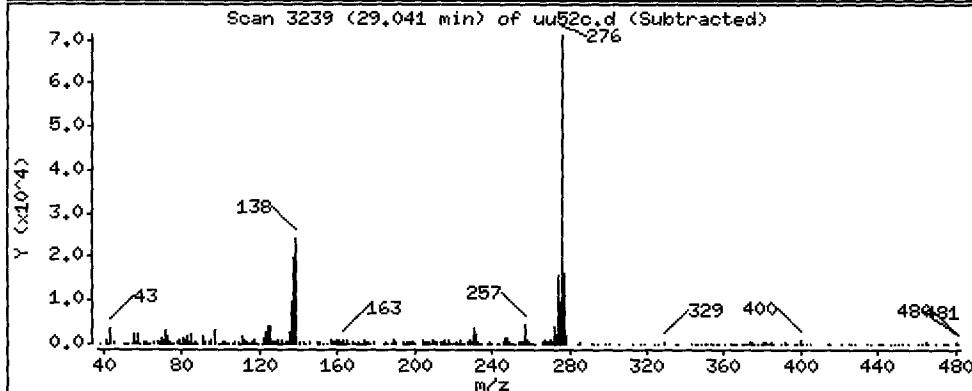
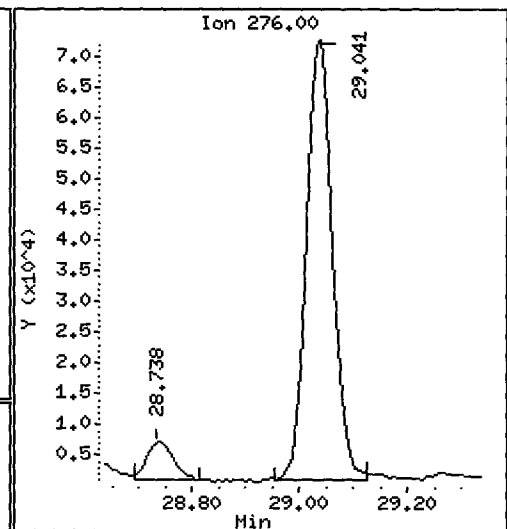
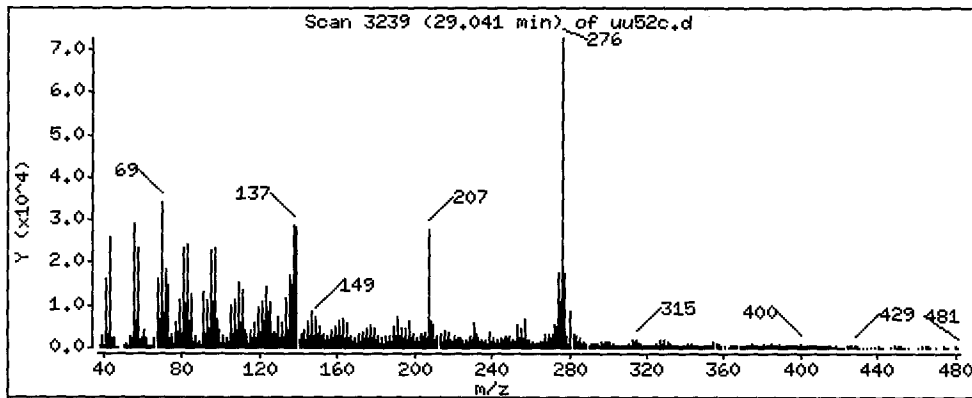
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 429.7 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

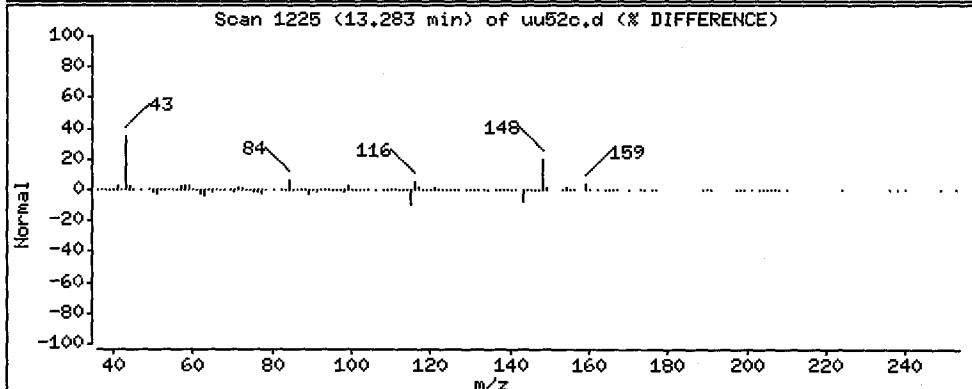
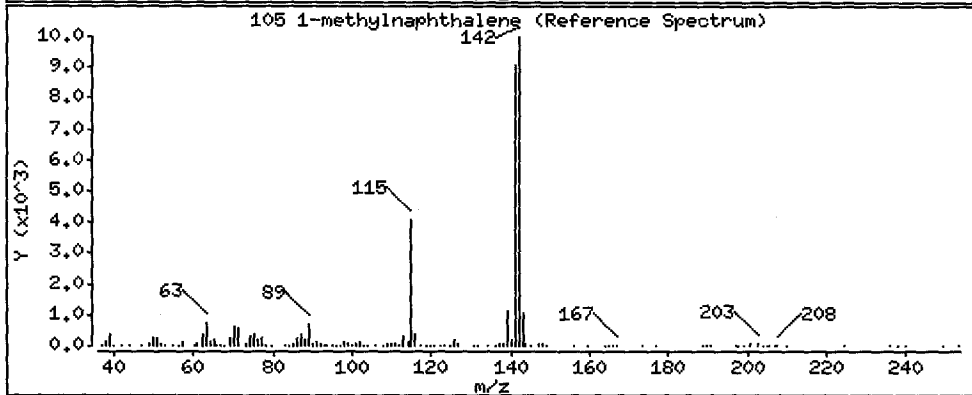
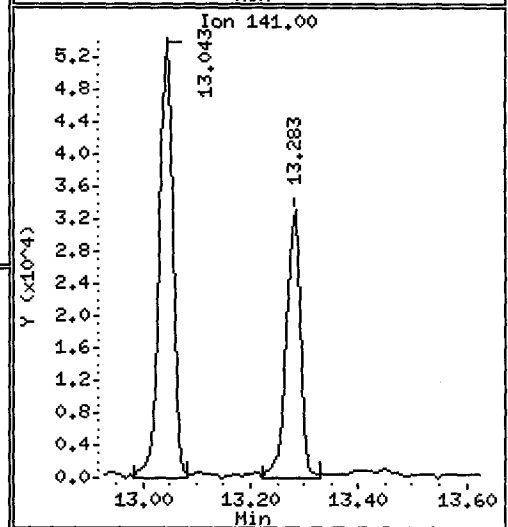
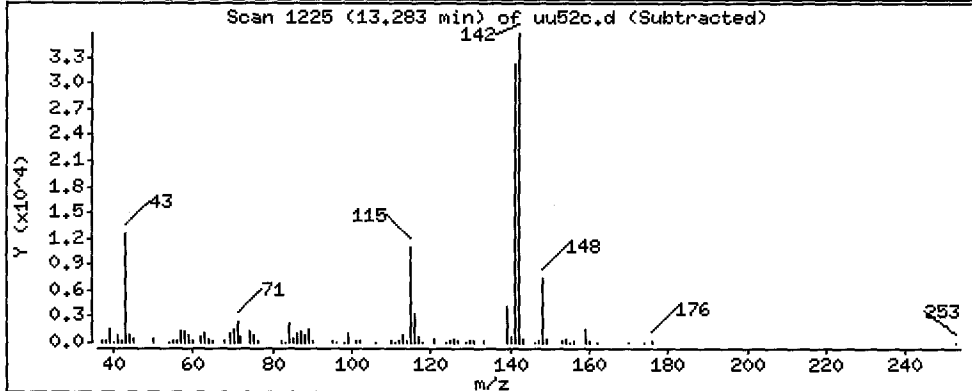
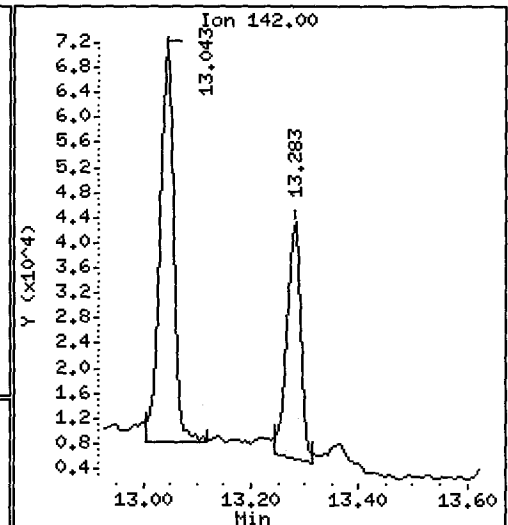
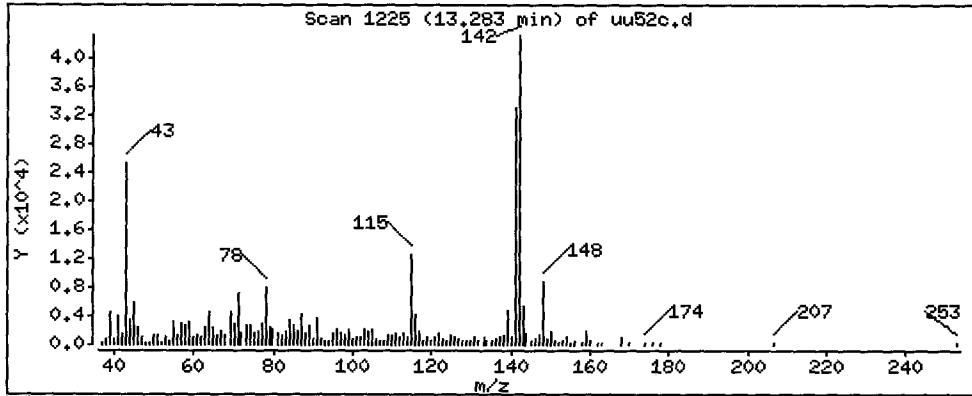
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 142.5 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

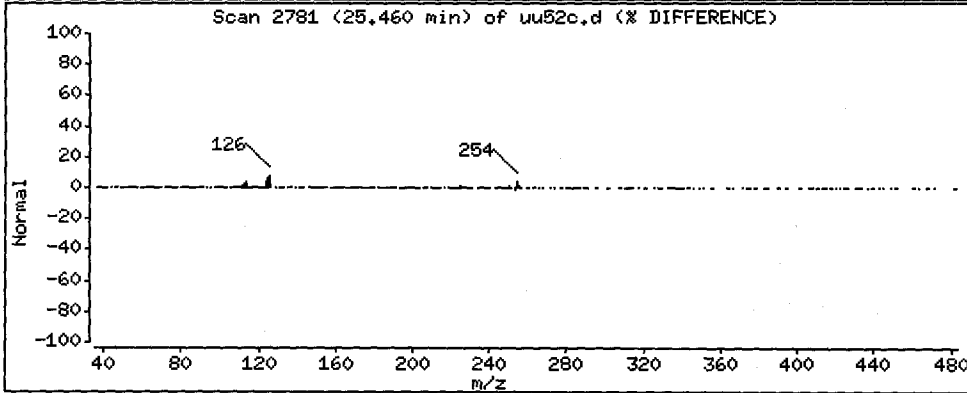
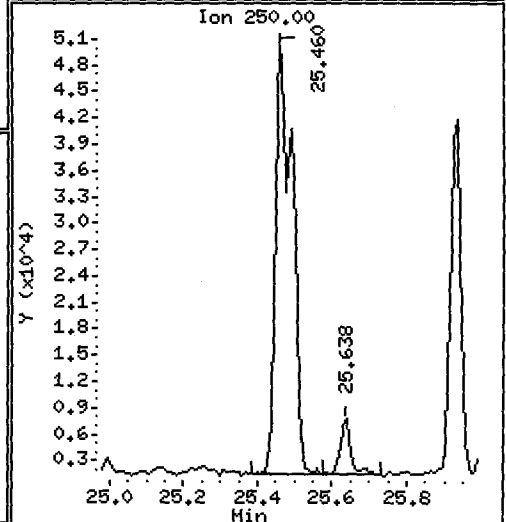
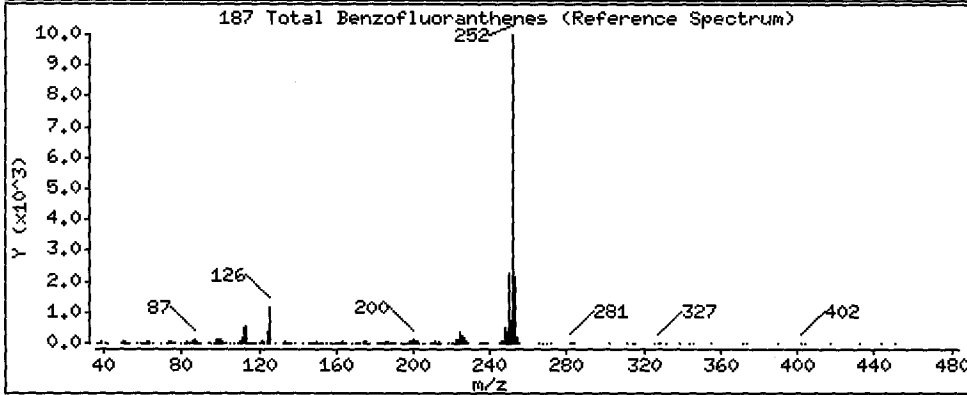
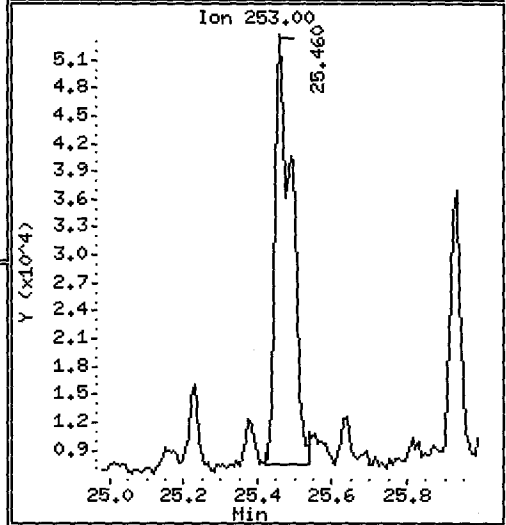
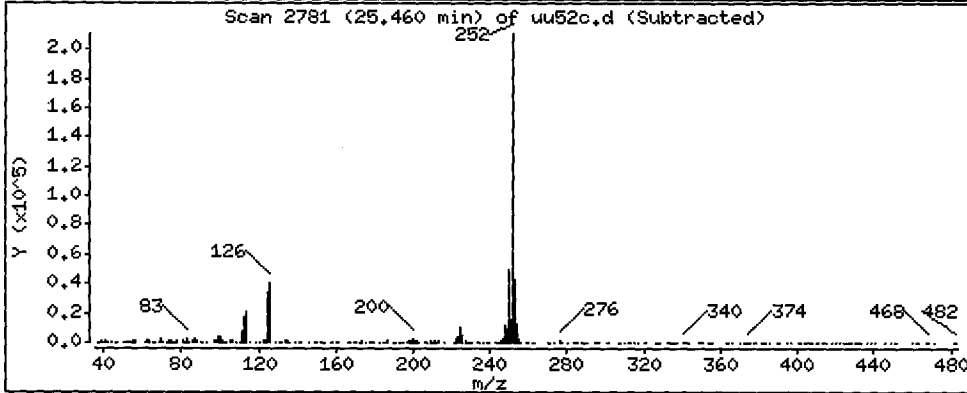
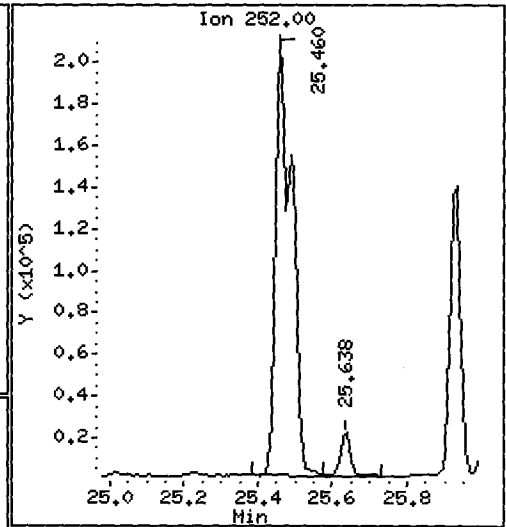
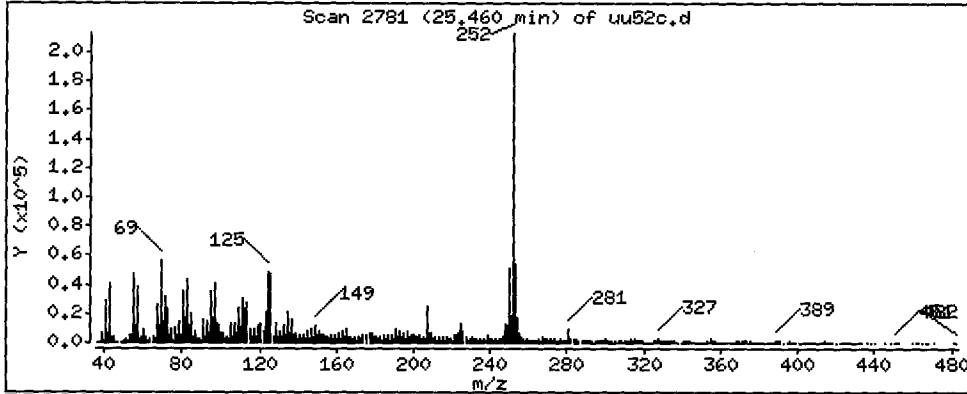
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 1020 ug/kg



Date : 26-MAY-2012 18:25

Client ID: MS002-SS-120515

Instrument: nt10.i

Sample Info: UU52C,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

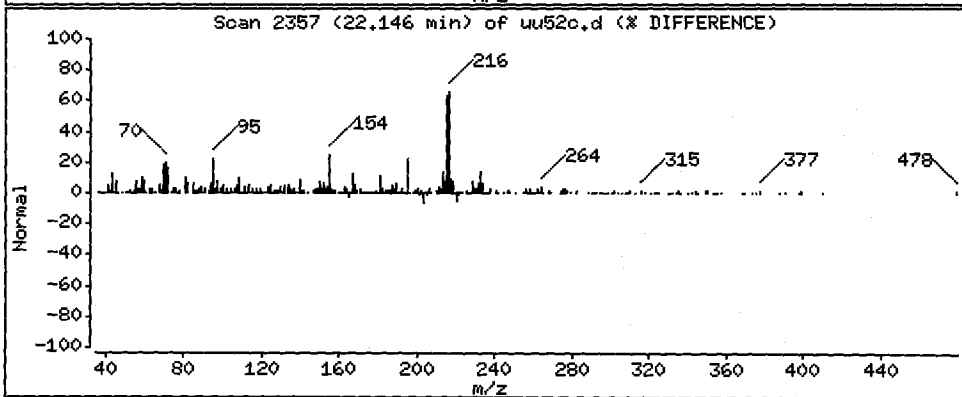
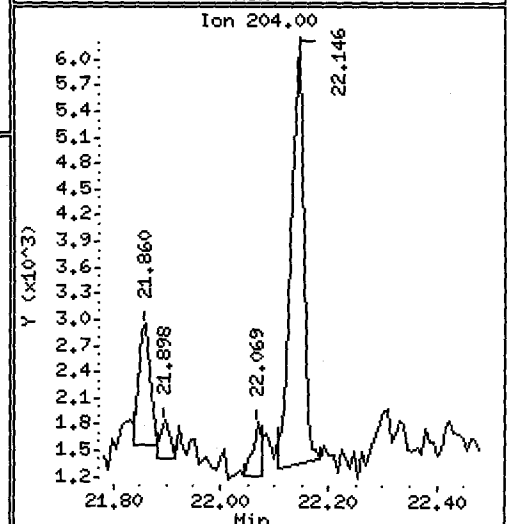
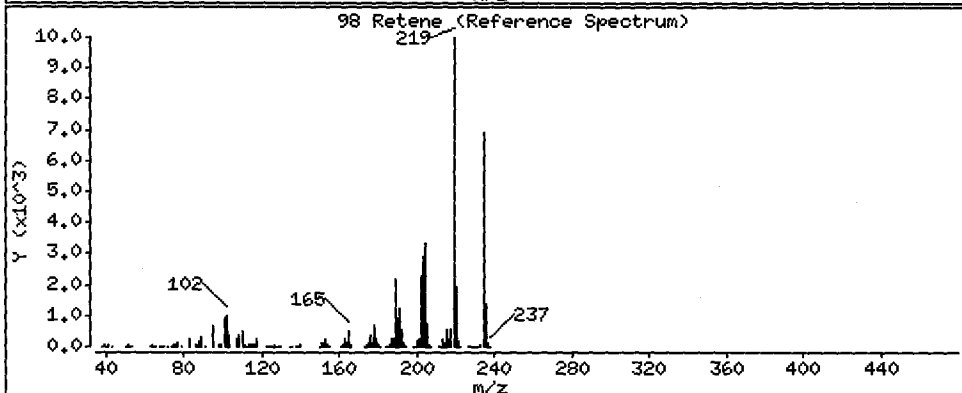
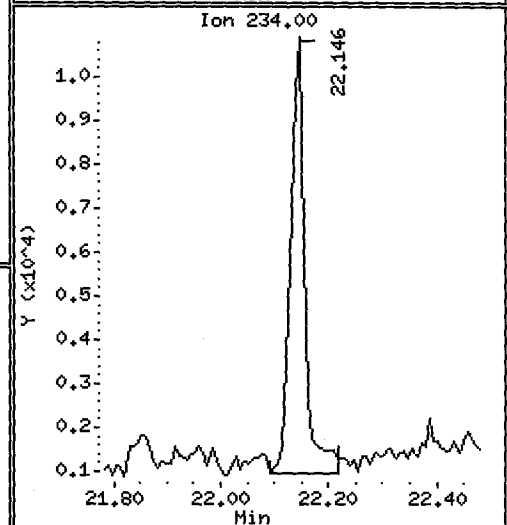
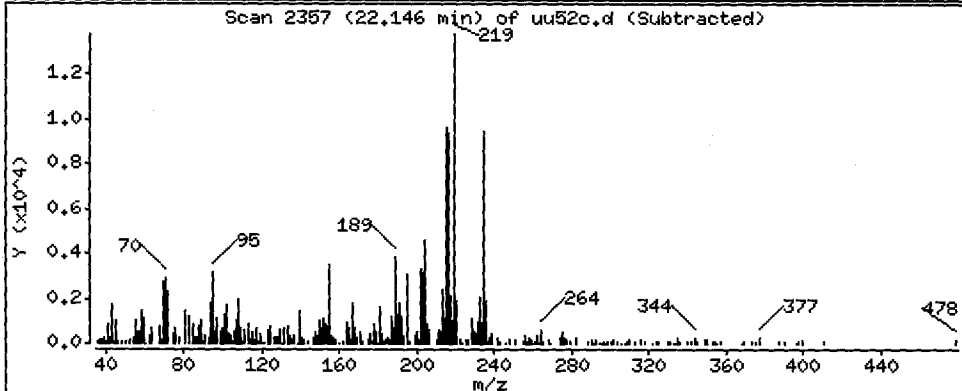
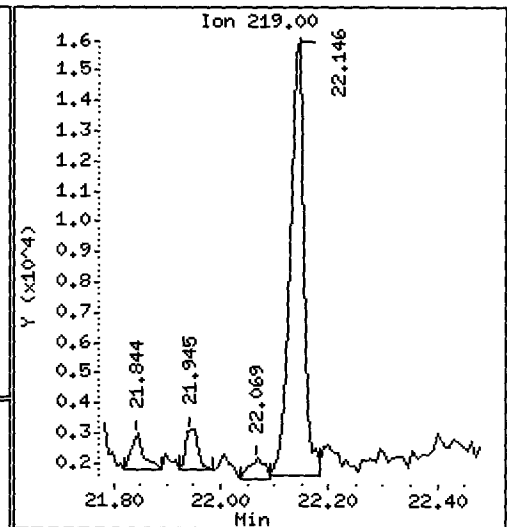
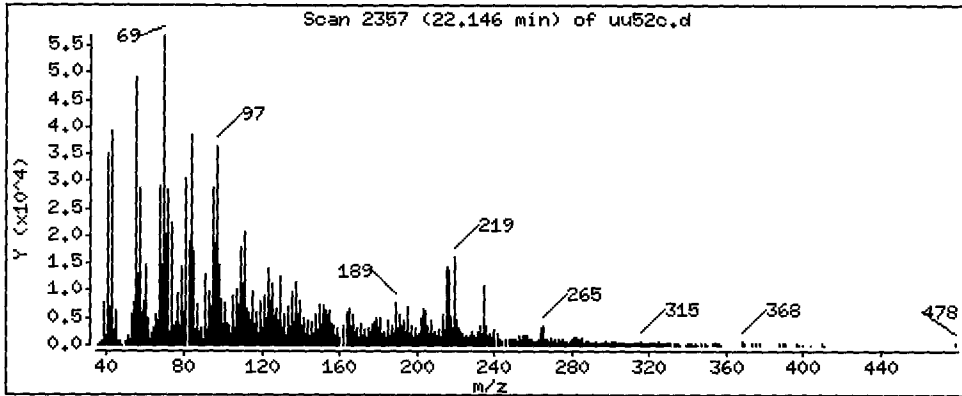
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

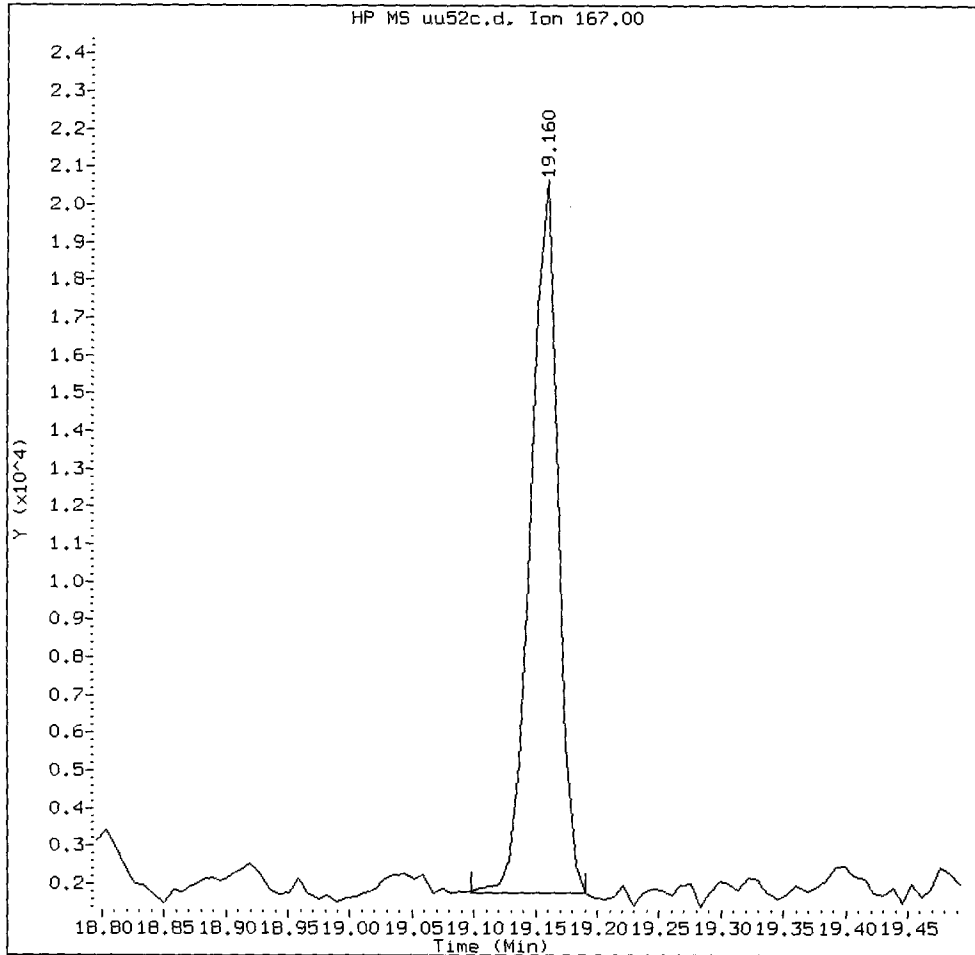
Concentration: 79.36 ug/kg

JCA



UU52C, /chem1/nt10.i/20120526.b/uu52c.d

Carbazole Amount: 0.19 Area: 30025



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____

Date: _____

CO-ELUTION SUMMARY FOR FILE - uu52c.d

Lab ID: UU52C, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YB 6/4/12

Data file : /chem1/nt10.i/20120526.b/uu52d.d
 Lab Smp Id: UU52D Client Smp ID: MS003-SS-120515
 Inj Date : 26-MAY-2012 19:02
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52D,3
 Misc Info : 12-8896
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 6
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 109.00000 | Weight of sample extracted (g) |
| M | 90.70000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.560 | 6.537 | (0.740) | 100119 | 1.46312 | 433.0 |
| \$ 2 Phenol-d5 | 99 | 8.252 | 8.237 | (0.931) | 134469 | 1.57755 | 466.9 |
| 3 Phenol | 94 | 8.275 | 8.260 | (0.934) | 55442 | 0.61021 | 180.6 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.484 | 8.476 | (0.957) | 115894 | 1.55189 | 459.3 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.855 | (1.000) | 195684 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.236 | 9.236 | (1.042) | 45372 | 0.92614 | 274.1 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | 9.740 | 9.725 | (1.099) | 266177 | 3.56283 | 1054 |
| § 18 Nitrobenzene-d5 | 82 | 10.027 | 10.027 | (0.872) | 66940 | 0.95575 | 282.8 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | 11.033 | 11.087 | (0.959) | 49498 | 1.10001 | 325.5 |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.504 | 11.504 | (1.000) | 781696 | 4.00000 | |
| 28 Naphthalene | 128 | 11.542 | 11.542 | (1.003) | 363786 | 1.84602 | 546.3 |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | 13.043 | 13.043 | (1.134) | 39687 | 0.28969 | 85.73 |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| § 36 2-Fluorobiphenyl | 172 | 13.902 | 13.902 | (0.904) | 160125 | 1.06534 | 315.3 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | 15.040 | 15.032 | (0.978) | 38602 | 0.19823 | 58.67 |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.380 | 15.373 | (1.000) | 433584 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | 15.450 | 15.442 | (1.005) | 27756 | 0.23631 | 69.93 |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | 15.798 | 15.798 | (1.027) | 64527 | 0.37499 | 111.0 |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | 16.571 | 16.563 | (1.077) | 32582 | 0.24711 | 73.13 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| § 55 2,4,6-Tribromophenol | 330 | 17.149 | 17.142 | (1.115) | 31514 | 1.76093 | 521.1 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 18.641 | 18.633 | (1.000) | 608068 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.695 | 18.687 | (1.003) | 261353 | 1.66682 | 493.3 |
| 61 Anthracene | 178 | 18.788 | 18.780 | (1.008) | 64809 | 0.39567 | 117.1 |
| 62 Carbazole | 167 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|--------|----------------|---------|------------------------|-------------------|---------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 63 Di-n-butylphthalate | 149 | | | | Compound Not Detected. | | |
| 64 Fluoranthene | 202 | 21.125 | 21.101 | (1.133) | 328973 | 1.84787 | 546.9 |
| 65 Pyrene | 202 | 21.542 | 21.519 | (0.908) | 366111 | 1.70465 | 504.5 |
| \$ 66 Terphenyl-d14 | 244 | 21.852 | 21.844 | (0.921) | 148792 | 1.10591 | 327.3 |
| 67 Butylbenzylphthalate | 149 | | | | Compound Not Detected. | | |
| 68 Benzo (a) anthracene | 228 | 23.695 | 23.679 | (0.999) | 88337 | 0.44490 | 131.7 |
| * 69 Chrysene-d12 | 240 | 23.718 | 23.710 | (1.000) | 705866 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | Compound Not Detected. | | |
| 71 Chrysene | 228 | 23.764 | 23.749 | (1.002) | 227198 | 1.30074 | 384.9 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.818 | (0.961) | 61724 | 0.41036 | 121.4 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.802 | 24.794 | (1.000) | 1095300 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | Compound Not Detected. | | |
| 74 Benzo (b) fluoranthene | 252 | | | | Compound Not Detected. | | |
| 75 Benzo (k) fluoranthene | 252 | | | | Compound Not Detected. | | |
| 76 Benzo (a) pyrene | 252 | 26.017 | 26.002 | (0.996) | 147795 | 0.83022 | 245.7 |
| * 77 Perylene-d12 | 264 | 26.118 | 26.102 | (1.000) | 688484 | 4.00000 | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 28.380 | 28.342 | (1.087) | 120715 | 0.58622 | 173.5 |
| 79 Dibenzo (a,h) anthracene | 278 | 28.388 | 28.365 | (1.087) | 27469 | 0.16934 | 50.12 |
| 80 Benzo (g,h,i) perylene | 276 | 29.048 | 29.002 | (1.112) | 134502 | 0.76171 | 225.4 |
| 90 N-Nitrosodimethylamine | 74 | | | | Compound Not Detected. | | |
| 91 Aniline | 93 | | | | Compound Not Detected. | | |
| 93 Benzidine | 184 | | | | Compound Not Detected. | | |
| 103 Pyridine | 79 | | | | Compound Not Detected. | | |
| 105 1-methylnaphthalene | 142 | 13.283 | 13.275 | (1.155) | 26639 | 0.19067 | 56.43 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | Compound Not Detected. | | |
| 187 Total Benzofluoranthenes | 252 | 25.460 | 25.483 | (0.975) | 369394 | 1.93364 | 572.3 |
| 99 Perylene | 252 | | | | Compound Not Detected. | | |
| 98 Retene | 219 | 22.146 | 22.131 | (0.934) | 10666 | 0.10665 | 31.56 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52d.d
 Lab Smp Id: UU52D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8896

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS003-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 195684 | 3.25 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 781696 | 6.95 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 433584 | 3.06 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 608068 | -4.83 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 705866 | 9.43 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1095300 | 7.79 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 688484 | 5.92 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.72 | 0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.80 | 0.03 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.12 | 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: Anchor QEA, LLC.
Sample Matrix: SOLID
Lab Smp Id: UU52D
Level: LOW
Data Type: MS DATA
SpikeList File: SHORTPSDDA.spk
Sublist File: PSDDAICAL.sub
Method File: /chem1/nt10.i/20120526.b/ABN.m
Misc Info: 12-8896

Client SDG: UU52
Fraction: SV
Client Smp ID: MS003-SS-120515
Operator: VTS/YZ
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 739.9 | 433.0 | 58.52 | 30-160 |
| \$ 2 Phenol-d5 | 739.9 | 466.9 | 63.10 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 739.9 | 459.3 | 62.08 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 493.2 | 274.1 | 55.57 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 493.2 | 282.8 | 57.34 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 493.2 | 315.3 | 63.92 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 739.9 | 521.1 | 70.44 | 30-160 |
| \$ 66 Terphenyl-d14 | 493.2 | 327.3 | 66.35 | 30-160 |

Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

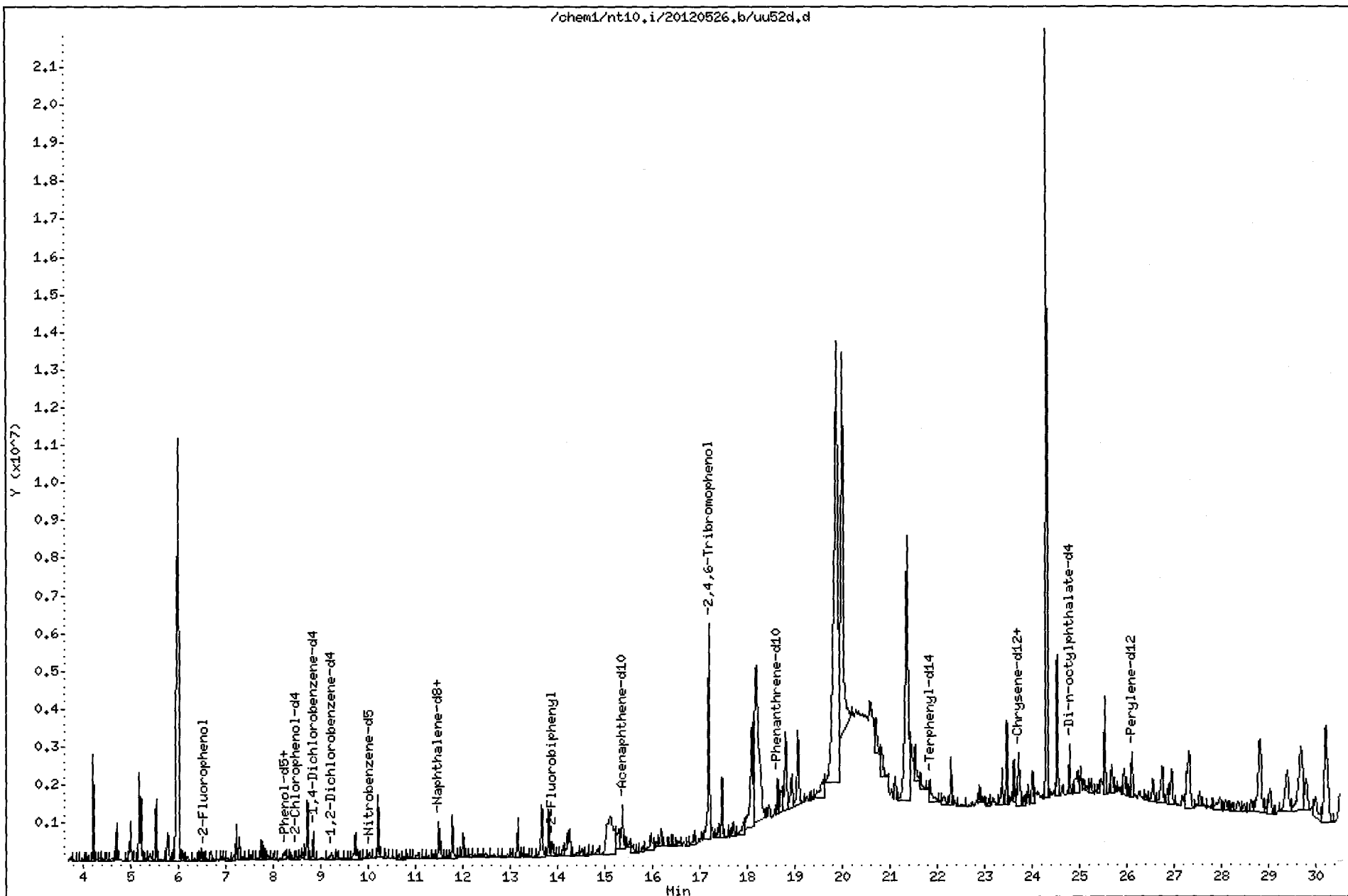
Sample Info: UU52D,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UU52:00799

Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

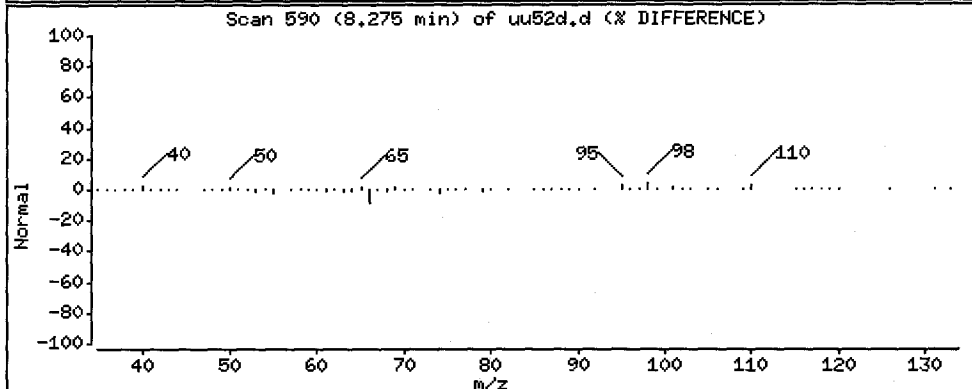
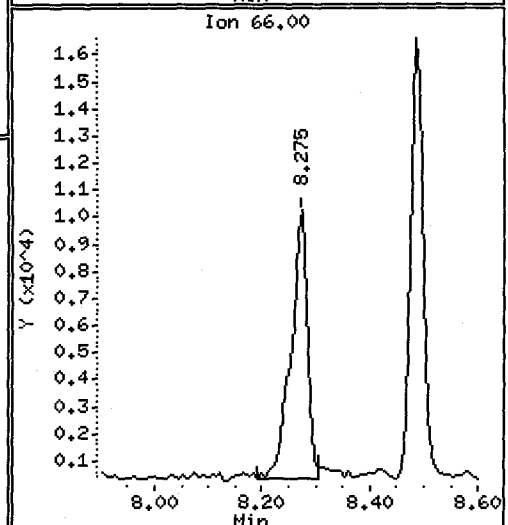
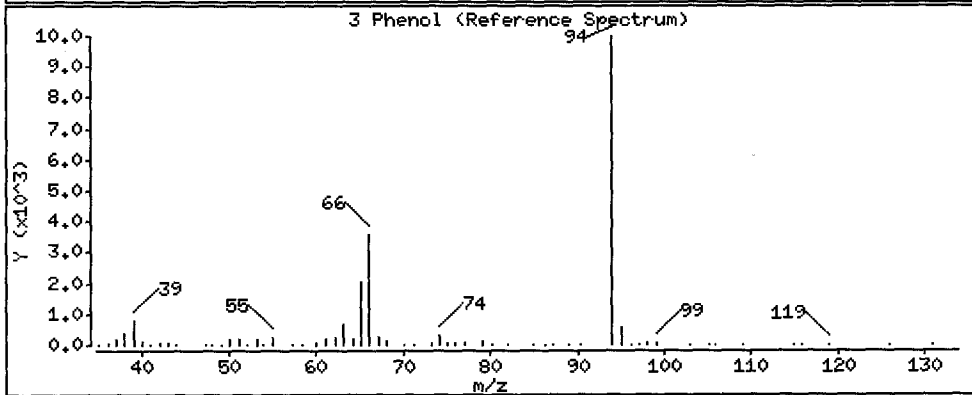
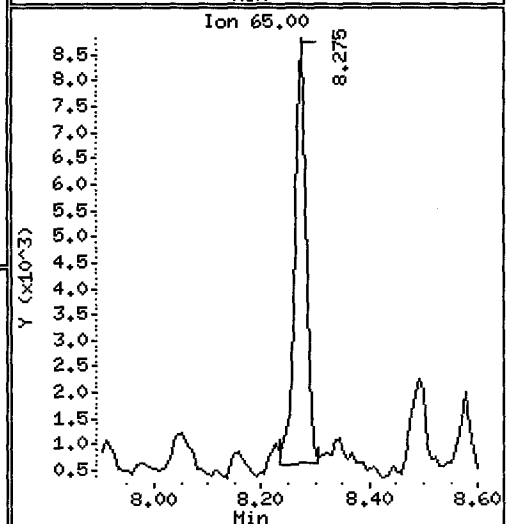
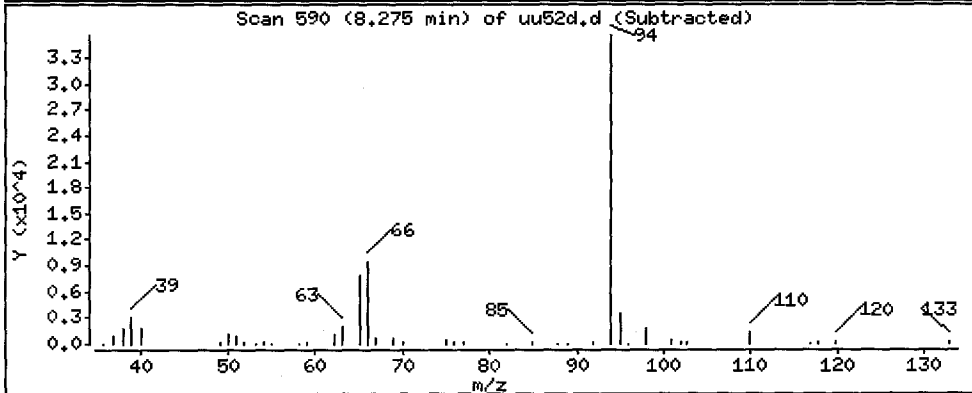
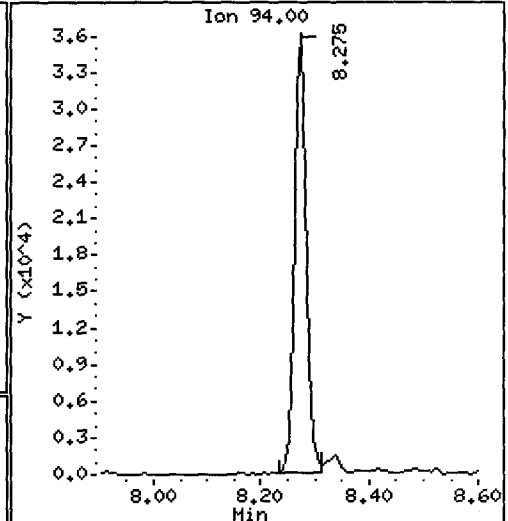
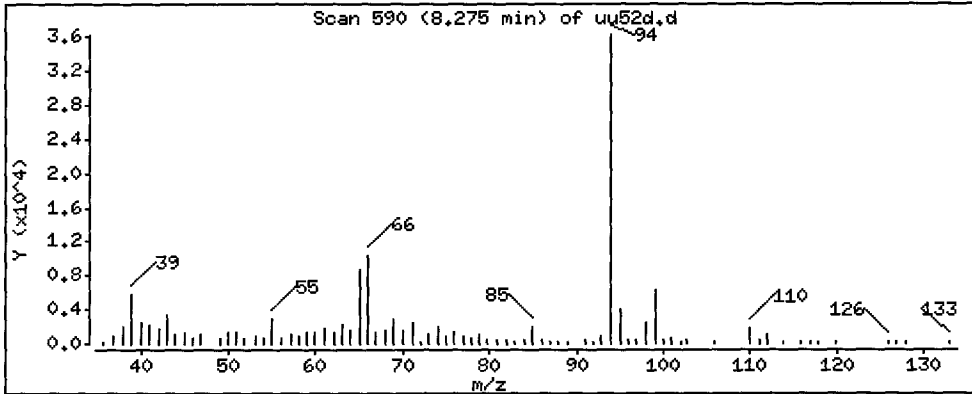
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 180.6 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

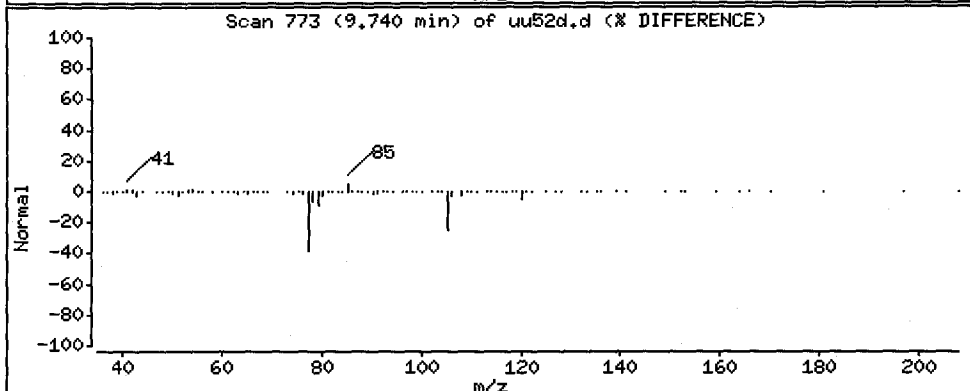
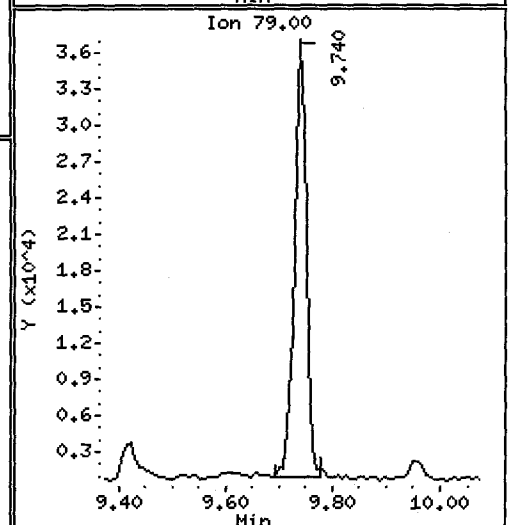
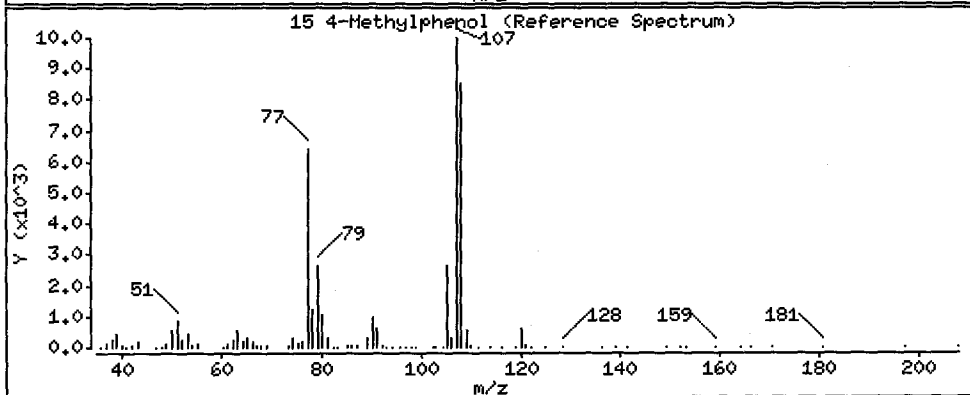
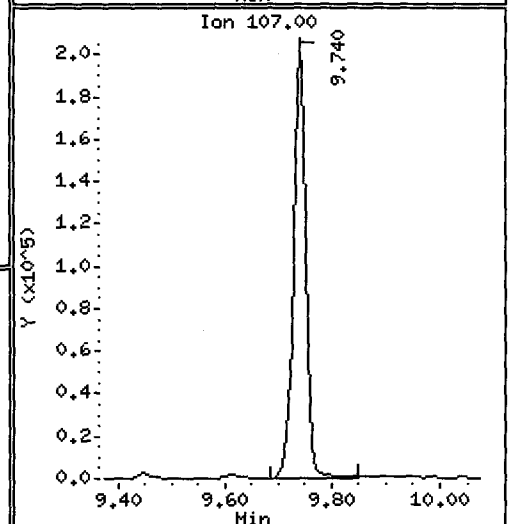
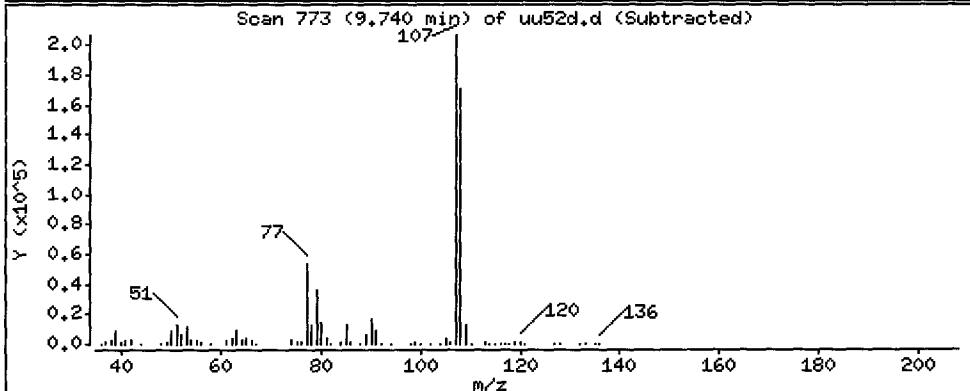
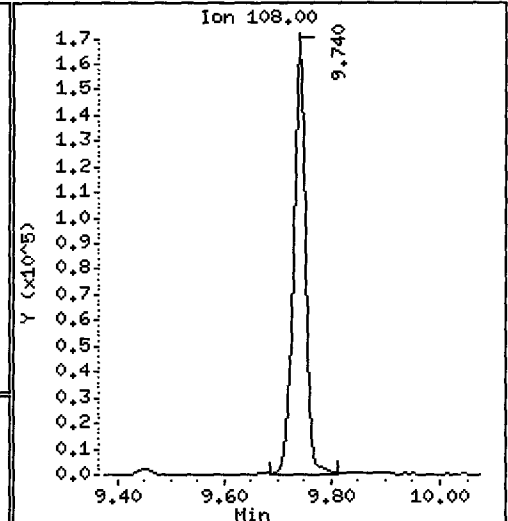
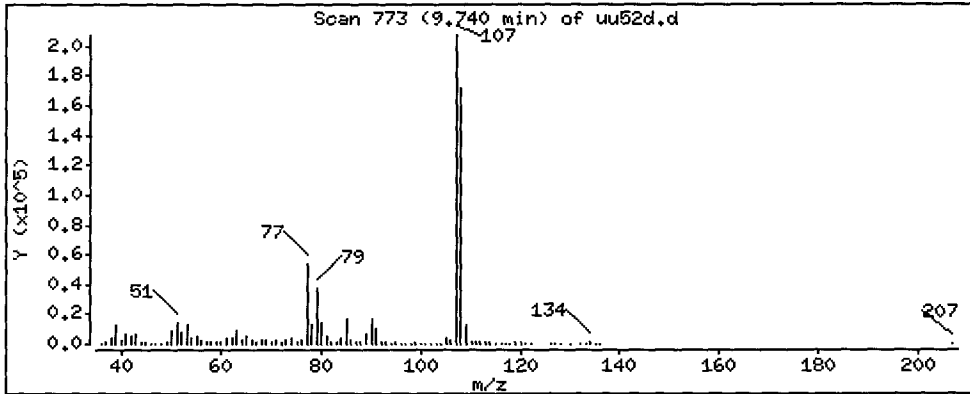
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1054 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

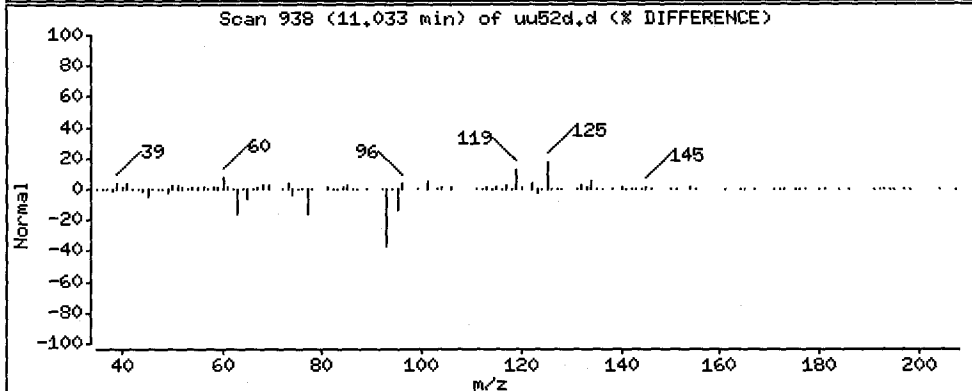
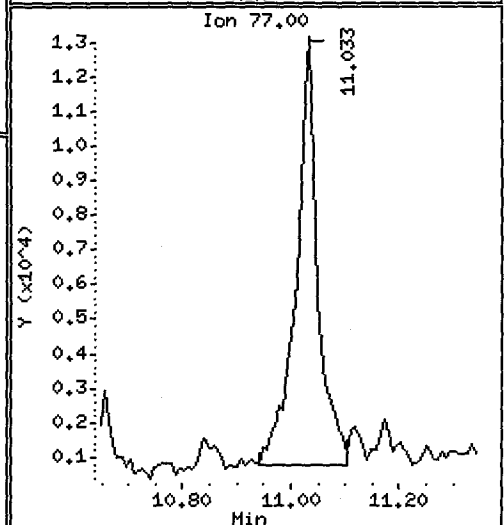
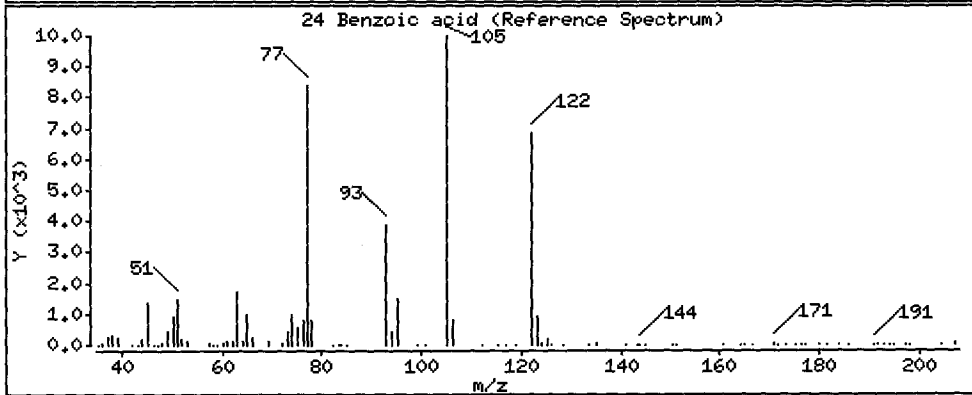
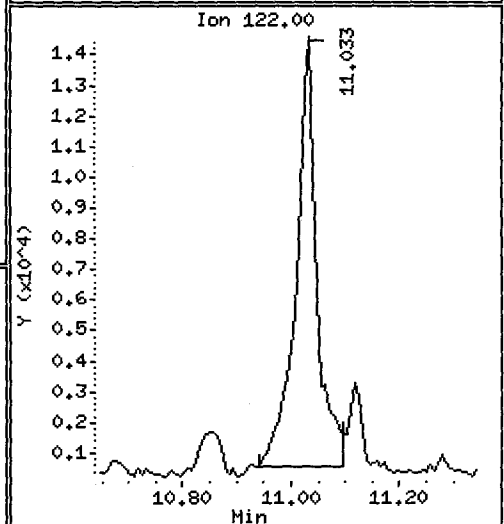
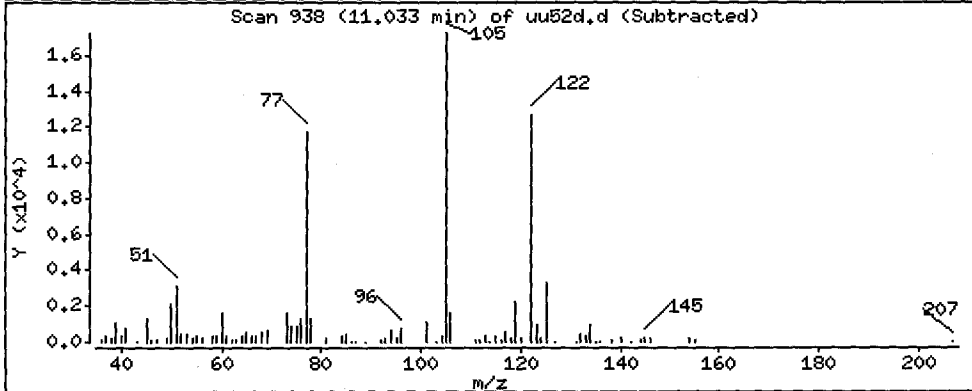
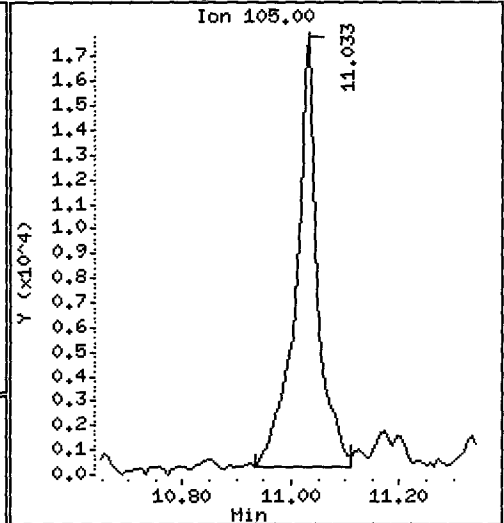
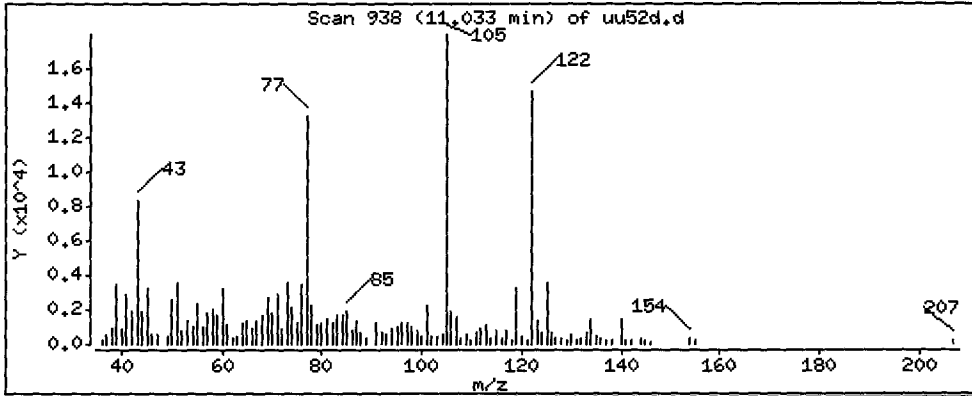
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 325.5 ug/kg

Colin



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

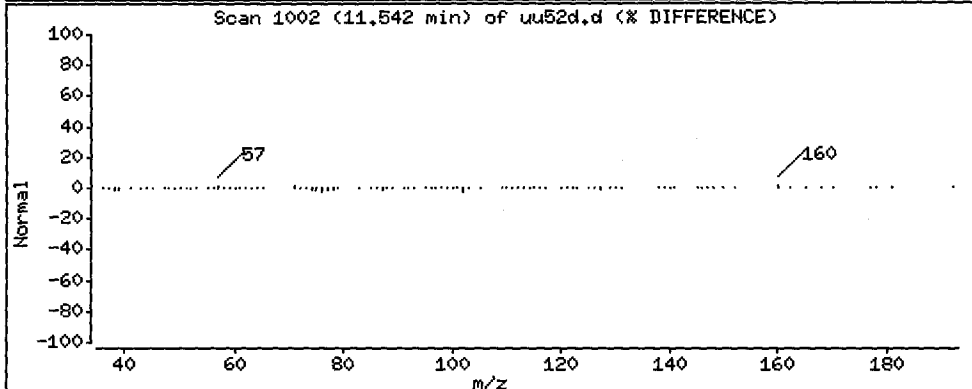
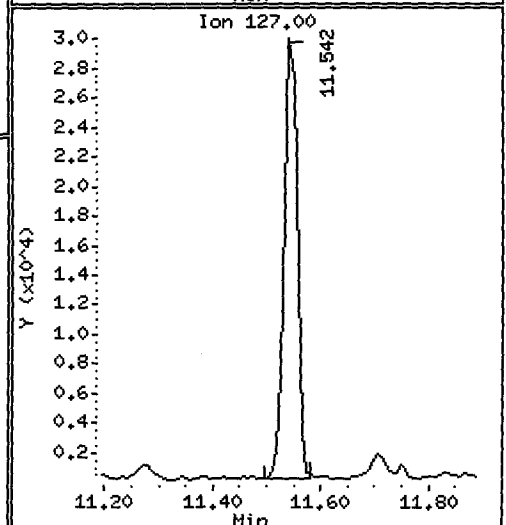
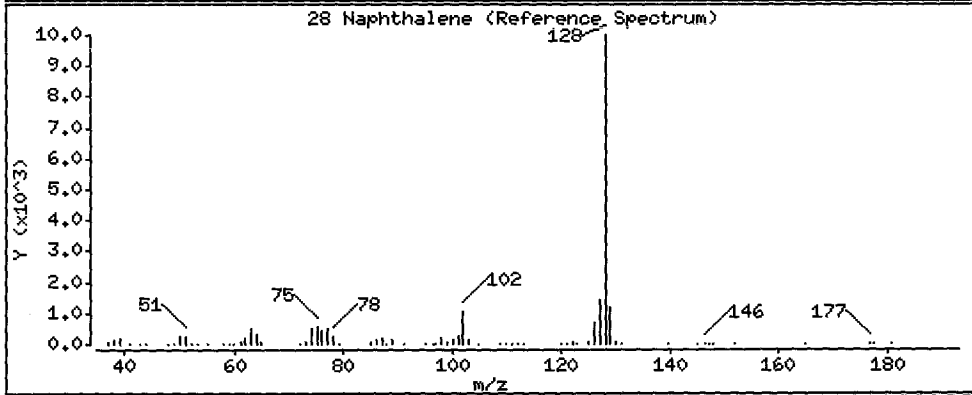
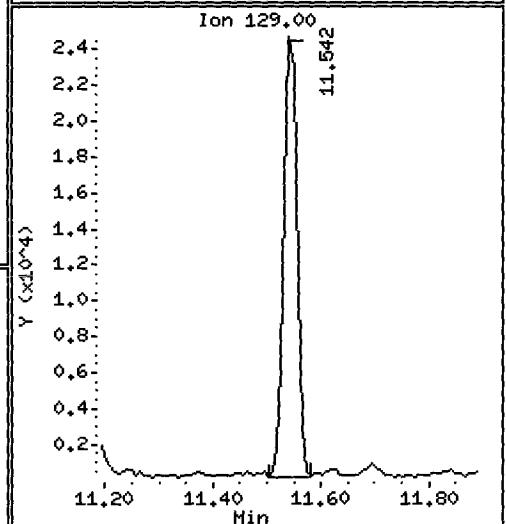
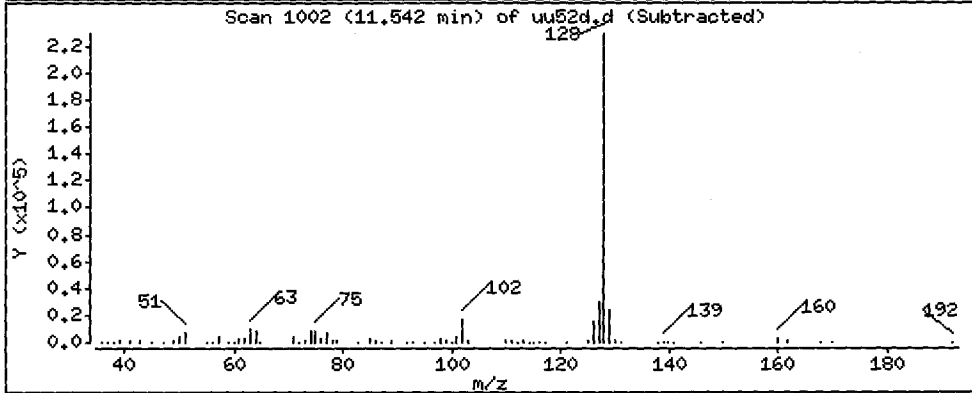
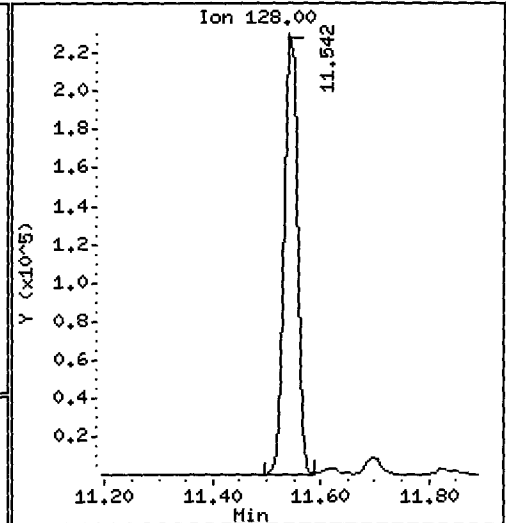
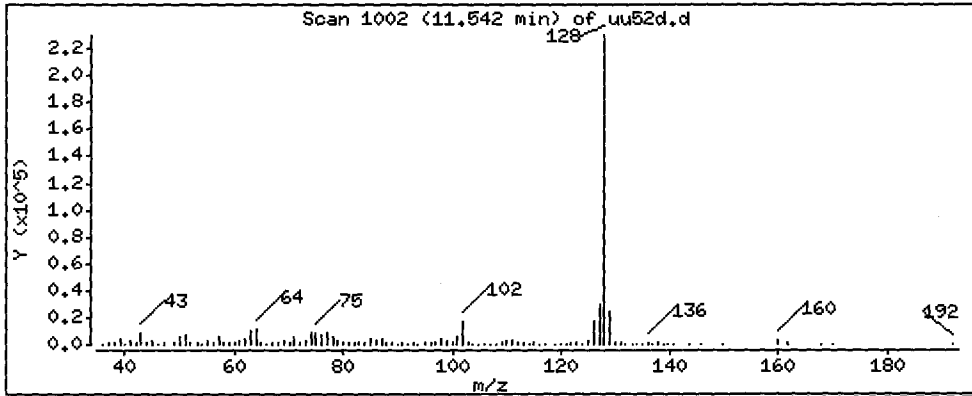
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 546.3 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

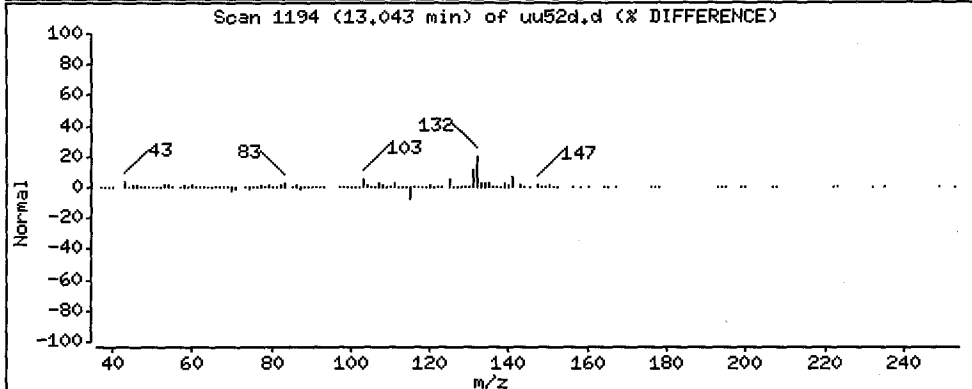
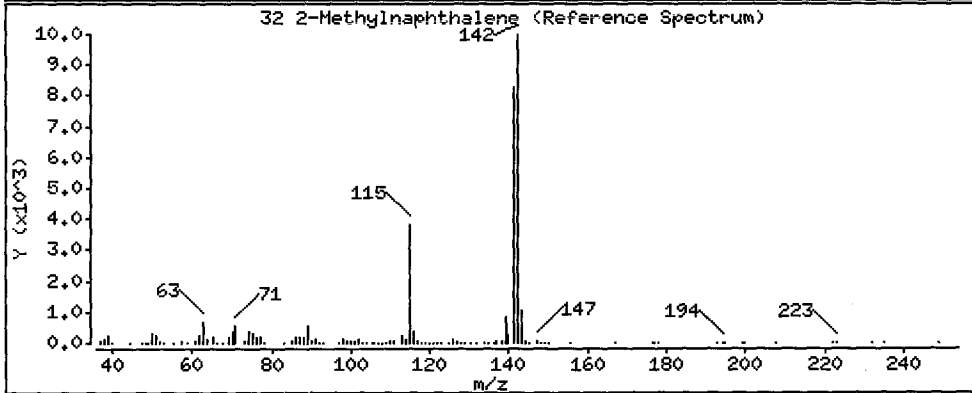
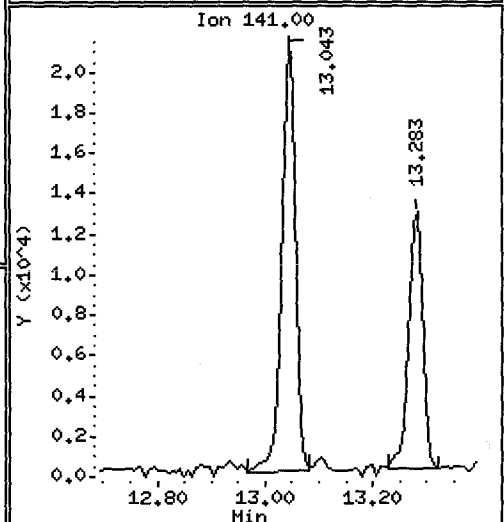
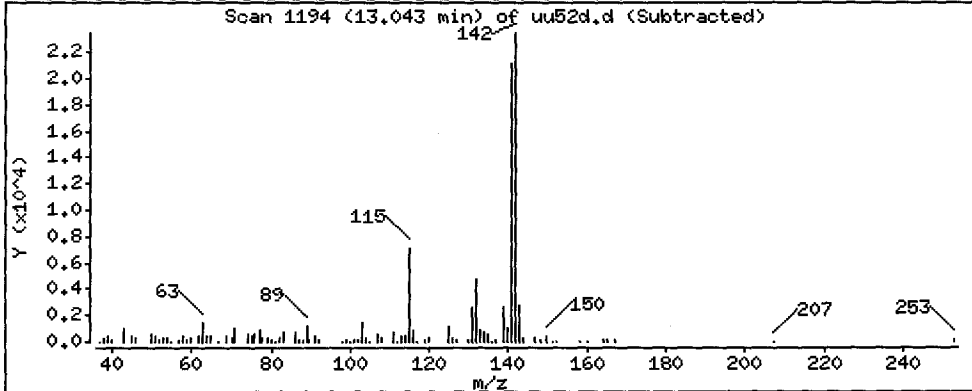
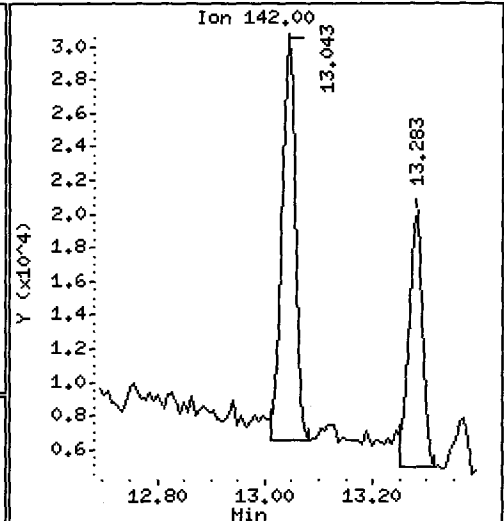
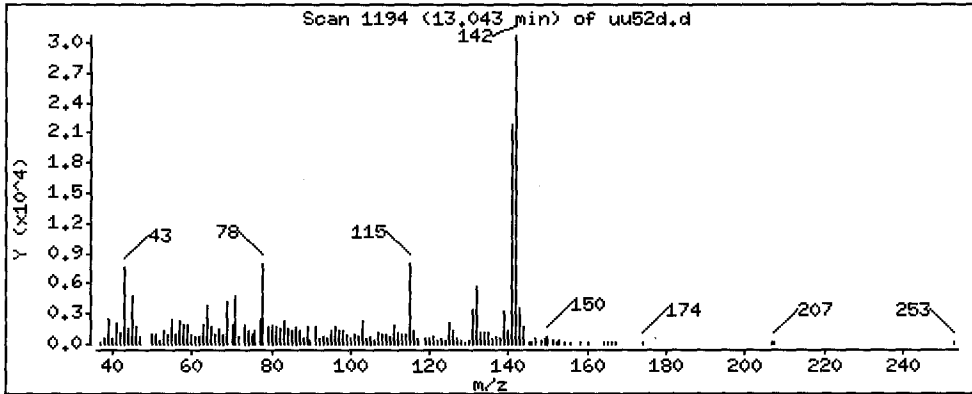
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 85.73 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

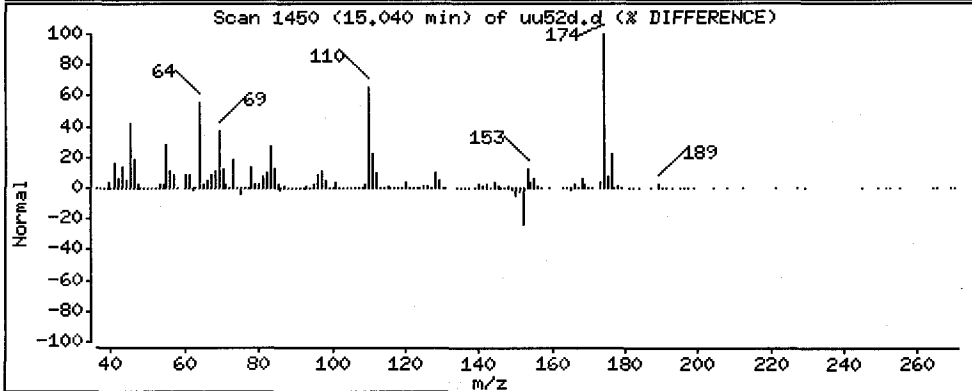
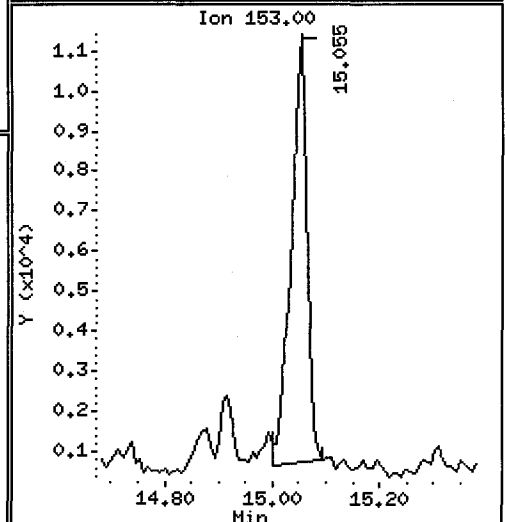
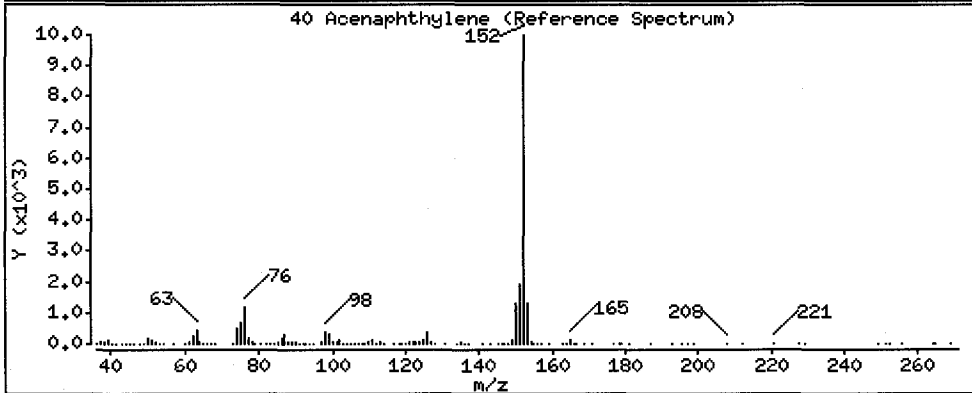
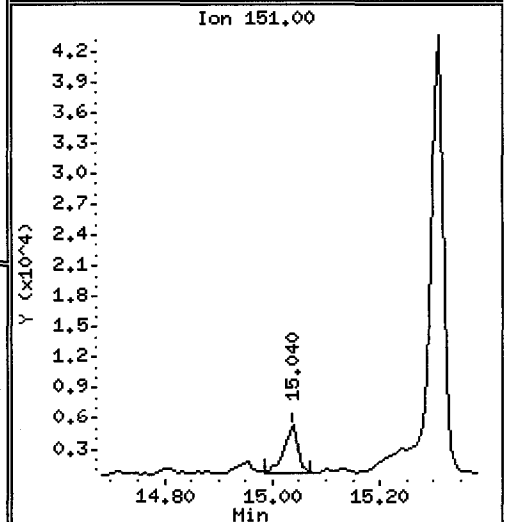
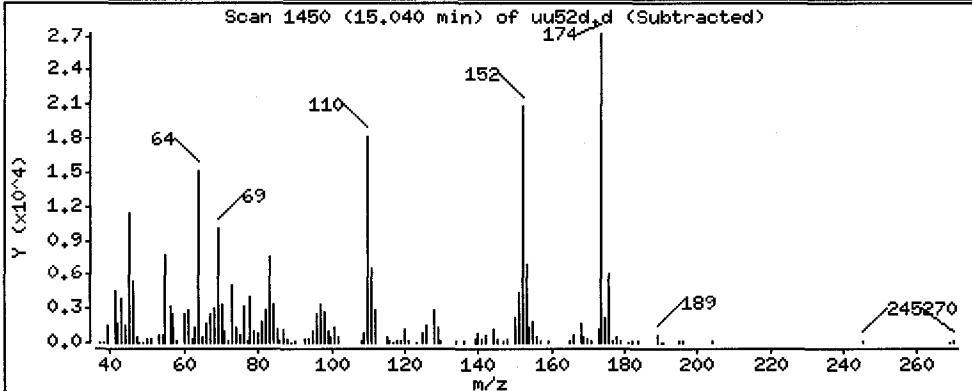
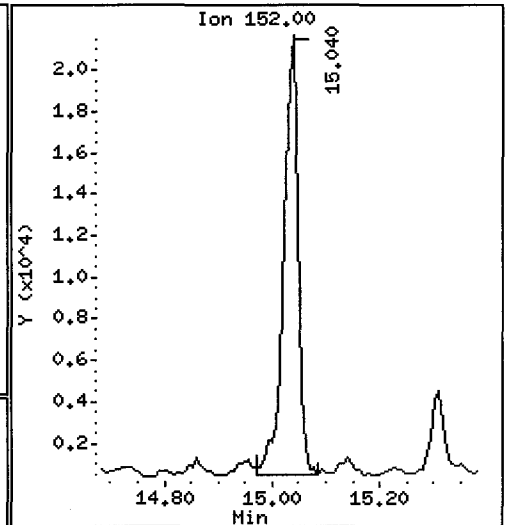
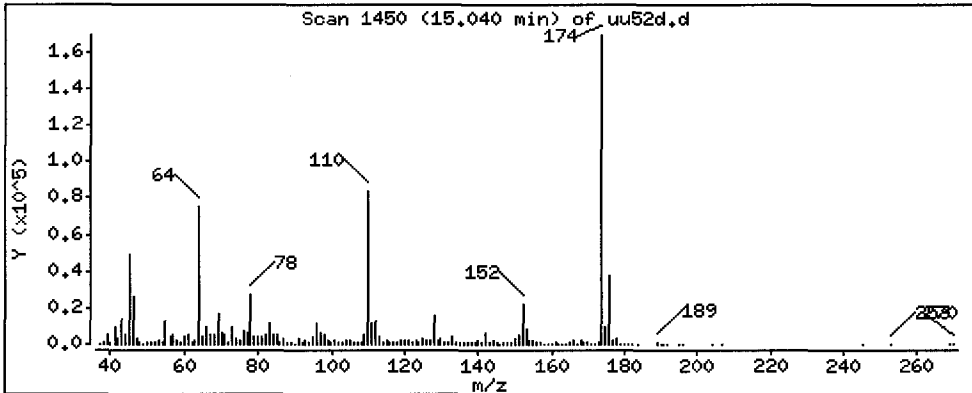
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 58.67 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

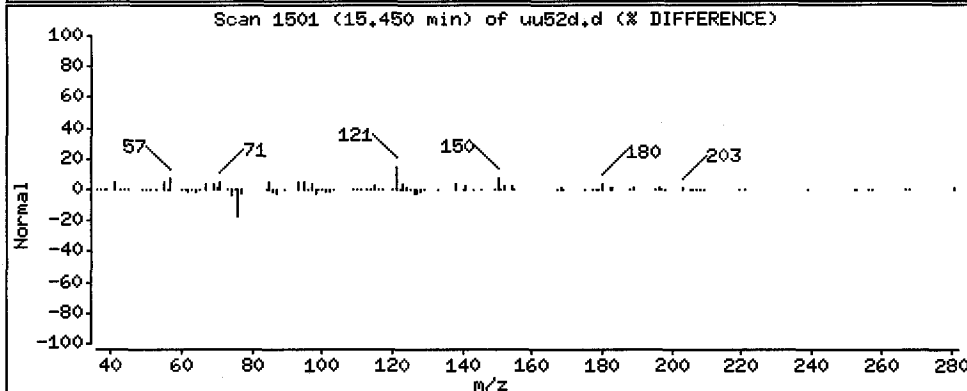
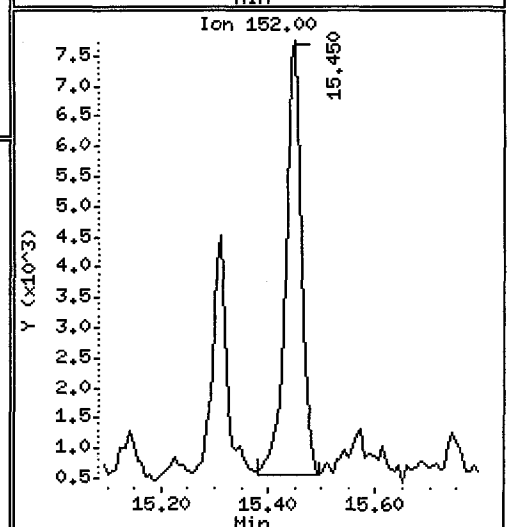
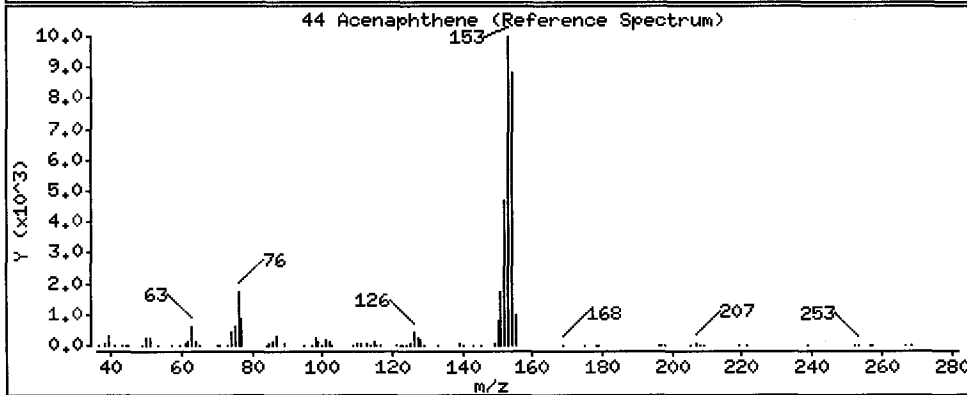
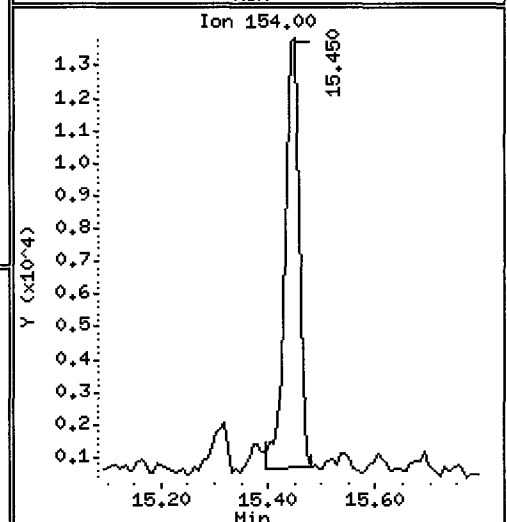
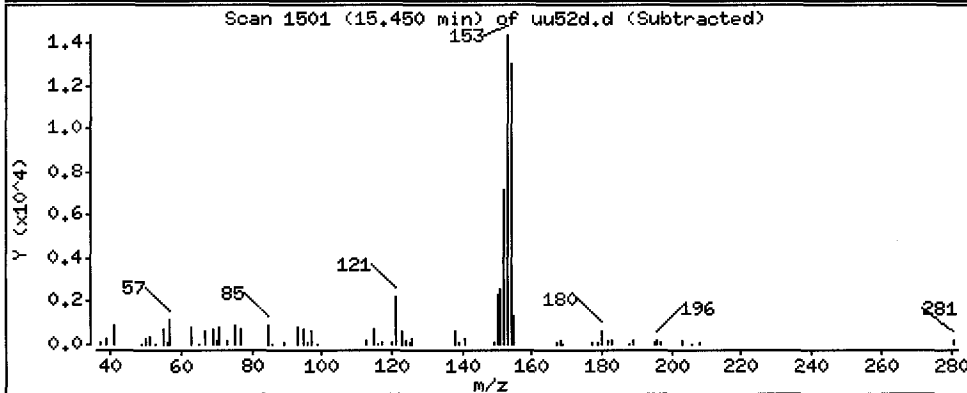
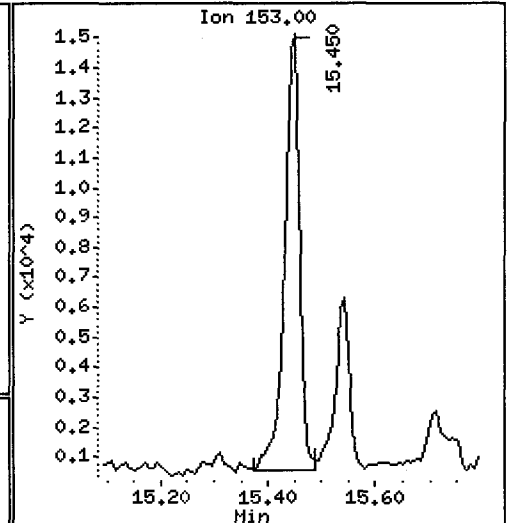
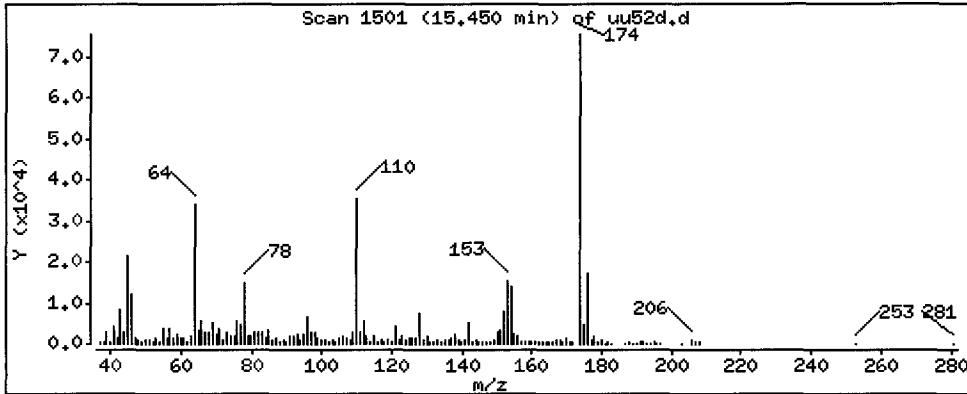
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 69.93 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

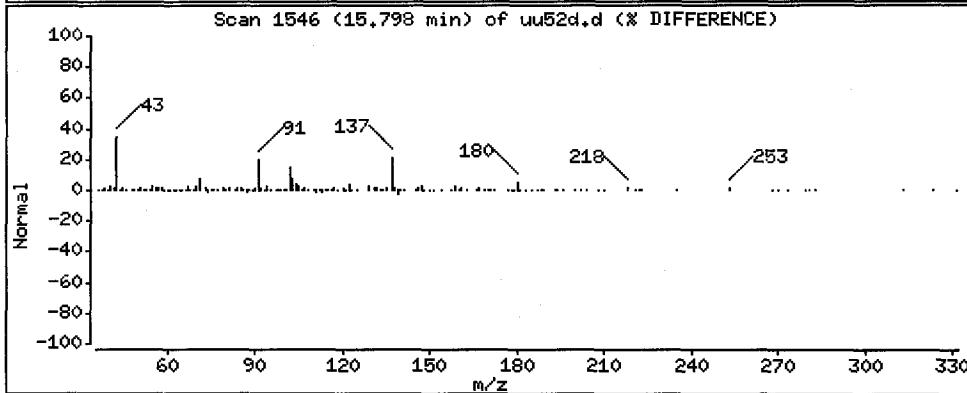
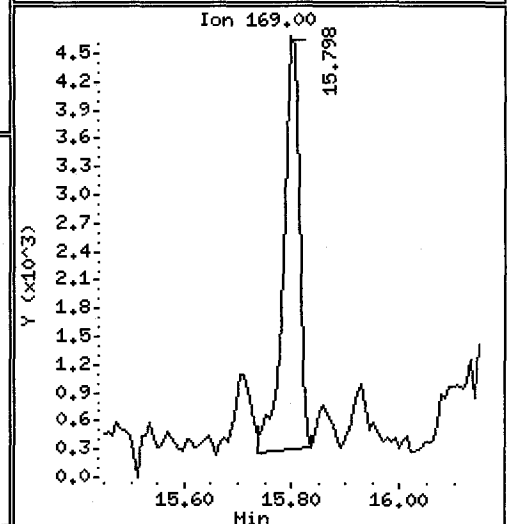
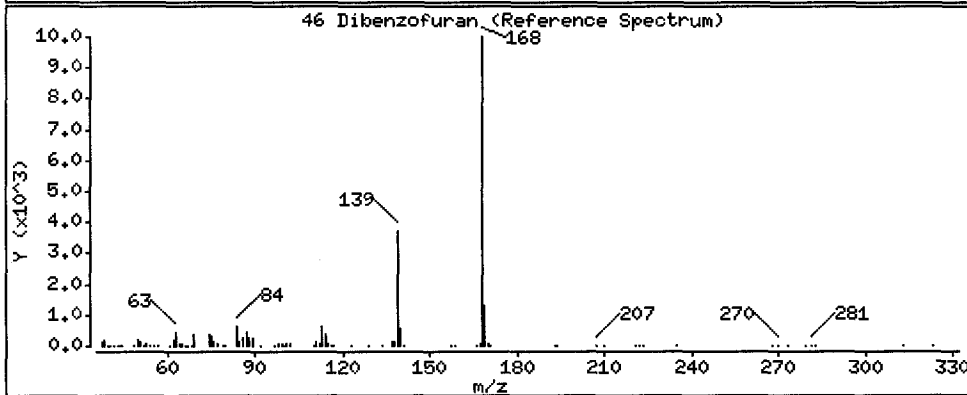
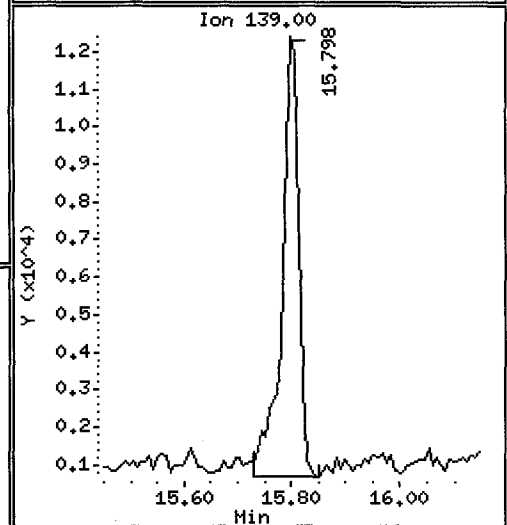
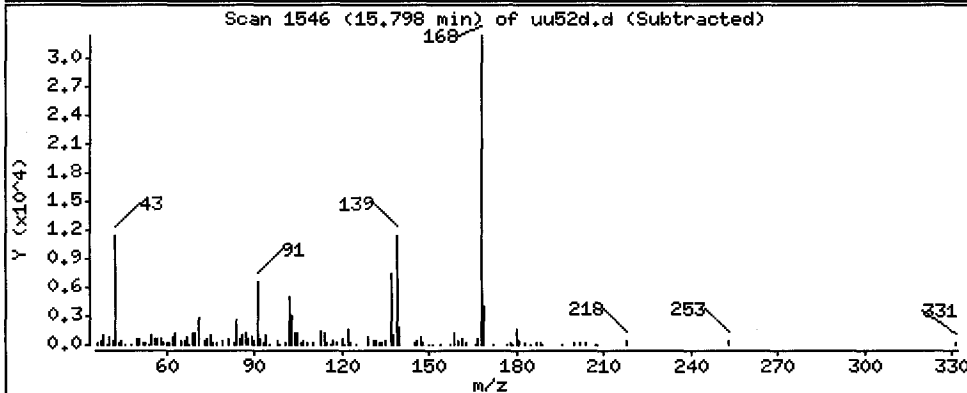
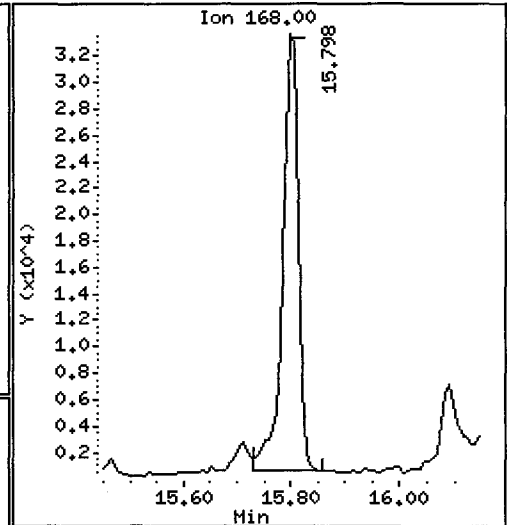
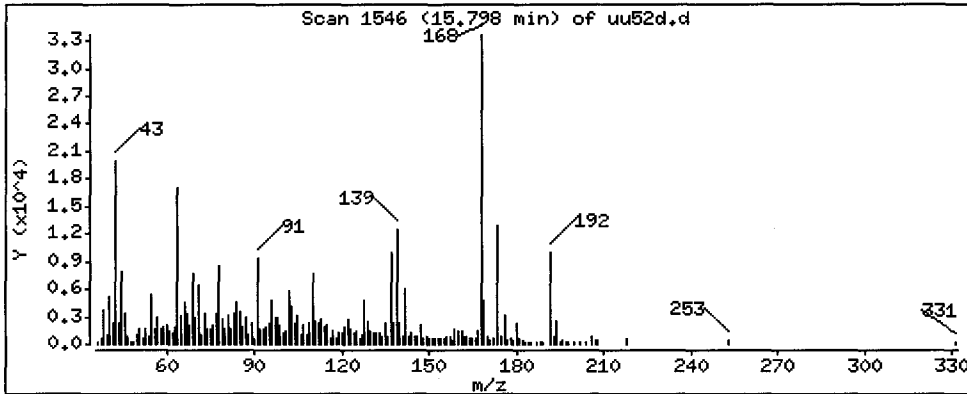
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 111.0 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

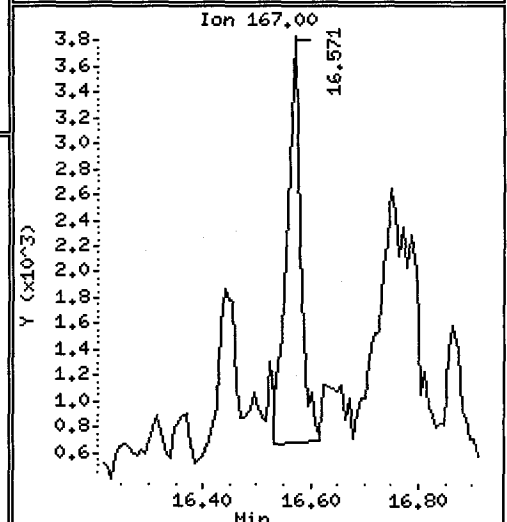
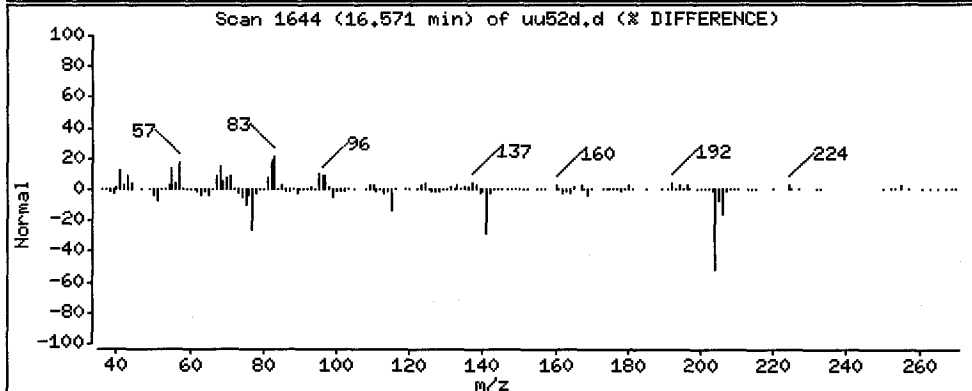
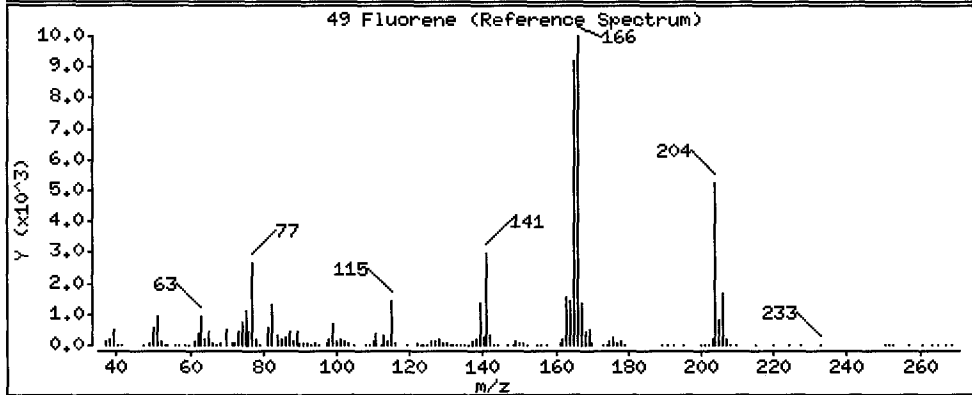
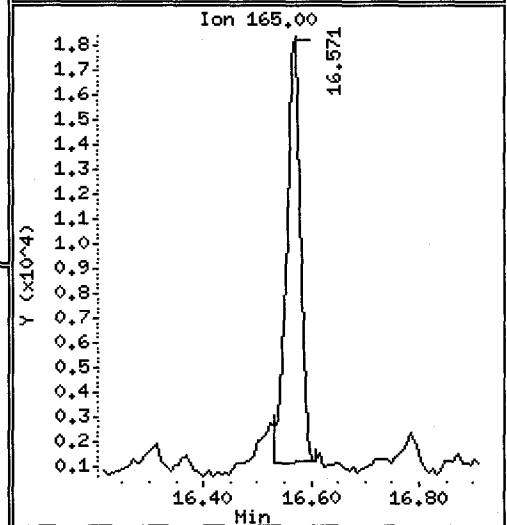
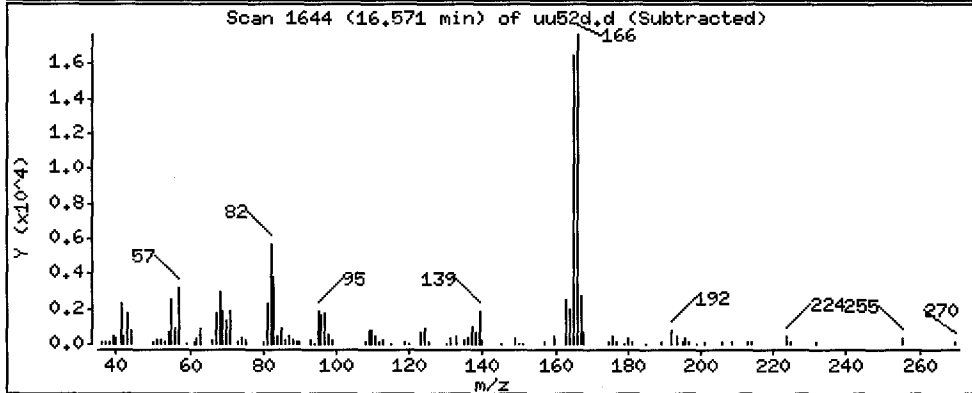
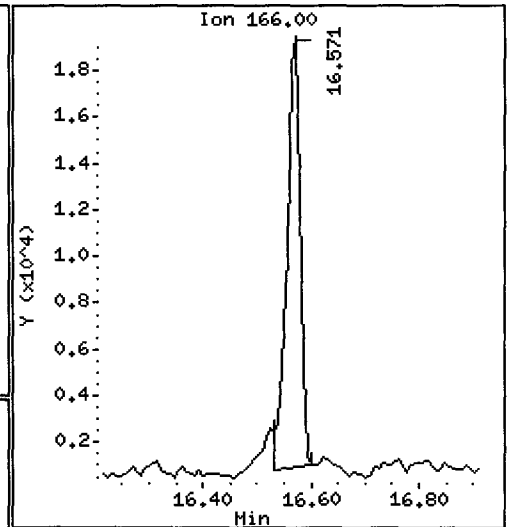
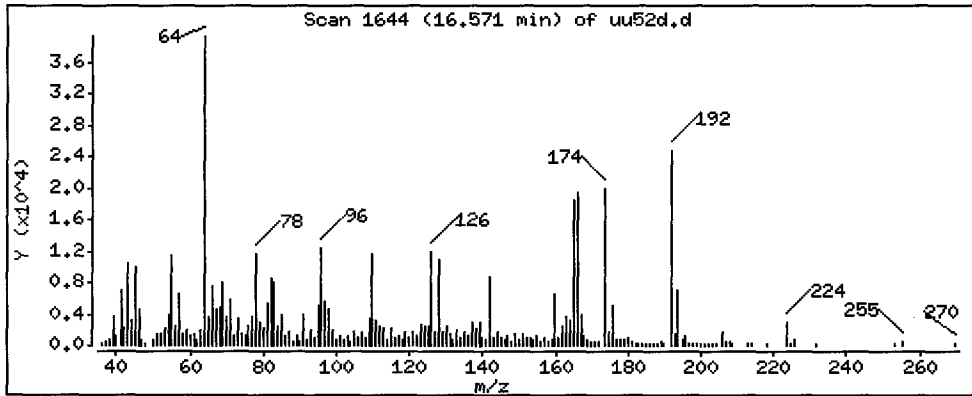
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 73.13 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

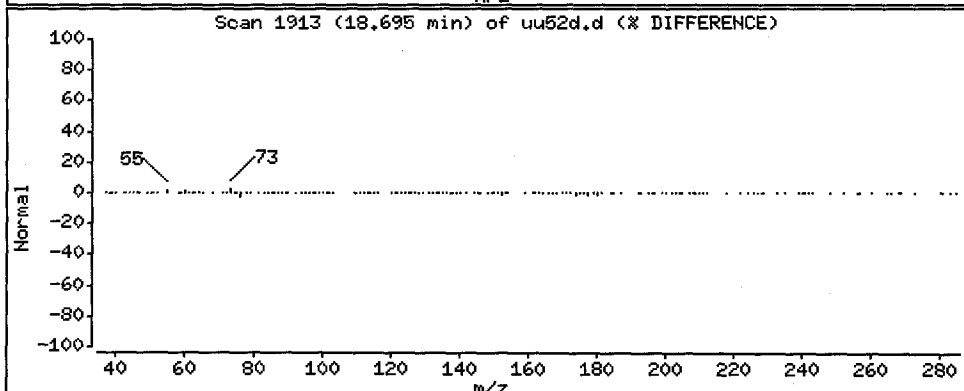
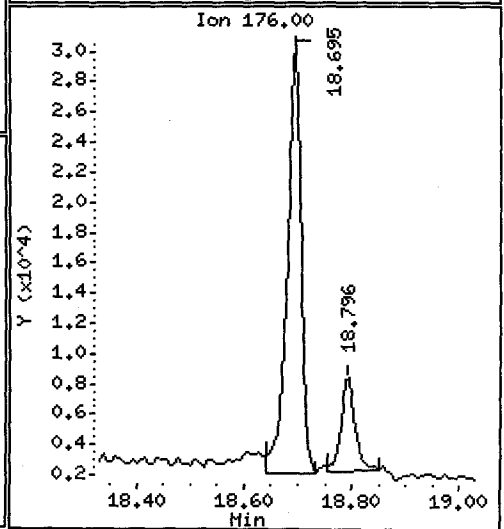
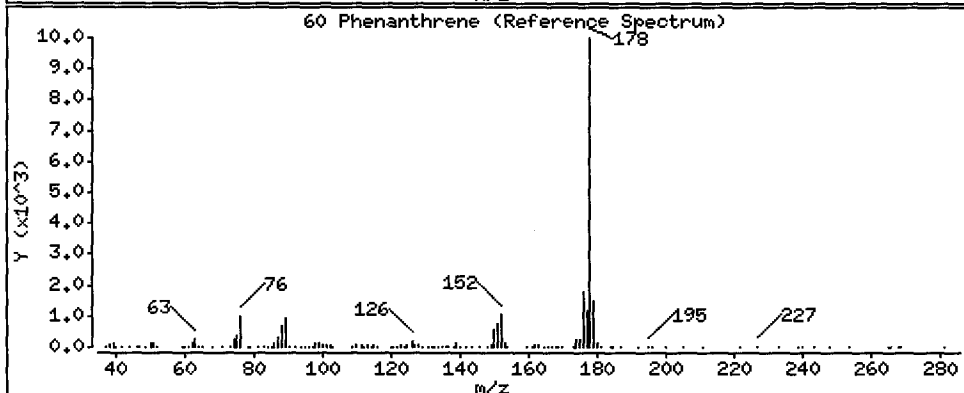
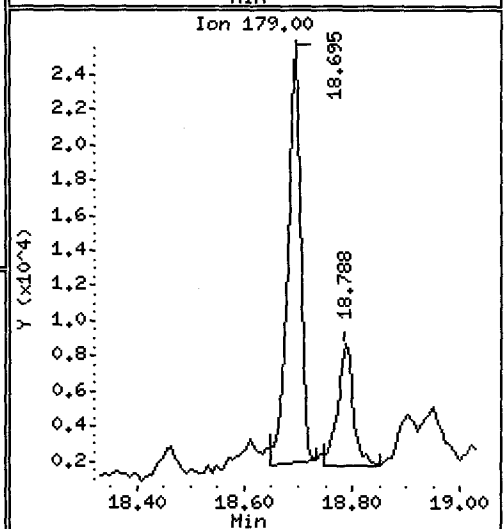
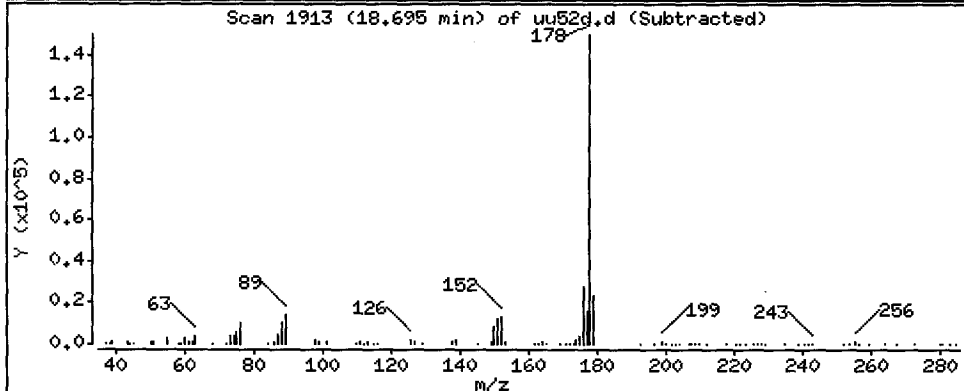
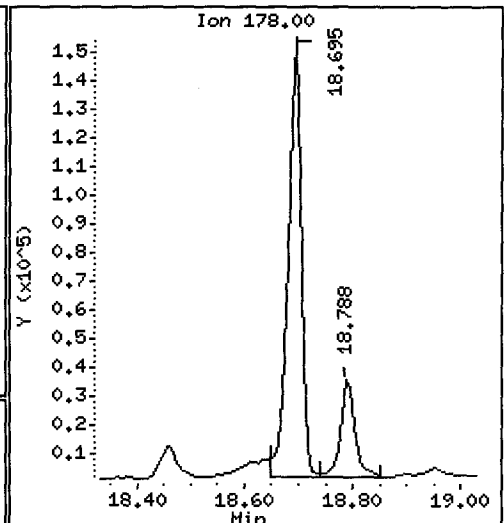
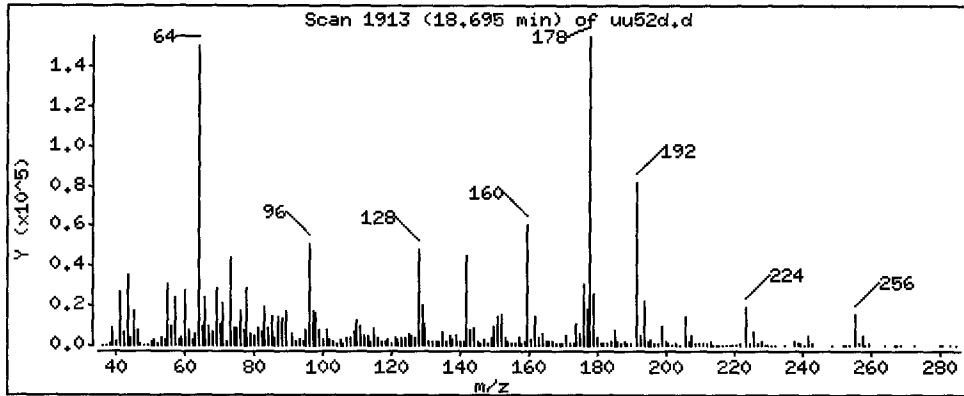
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 493.3 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

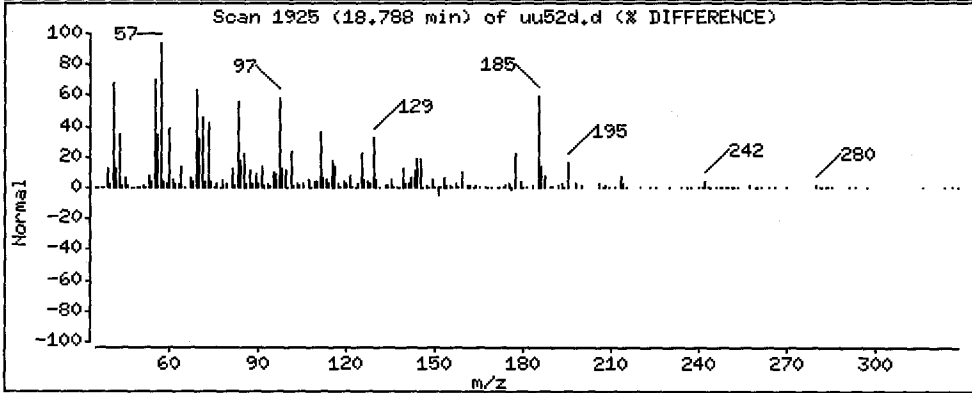
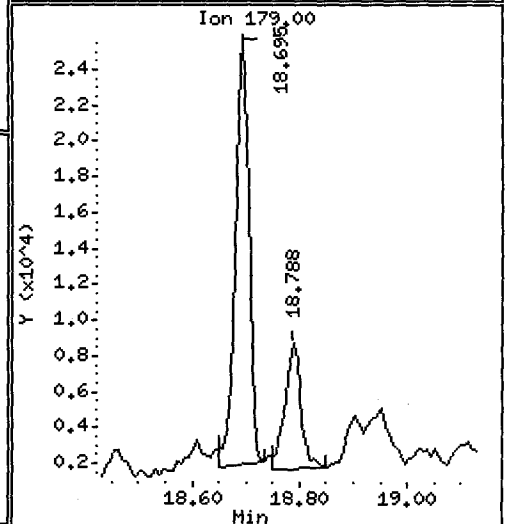
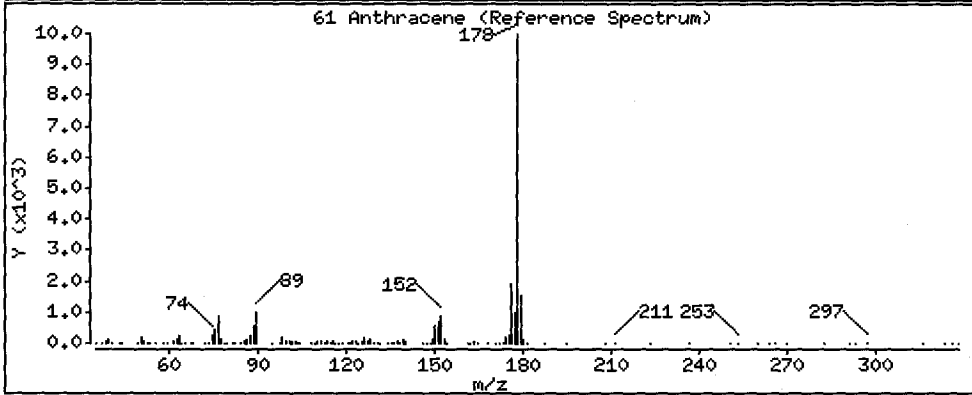
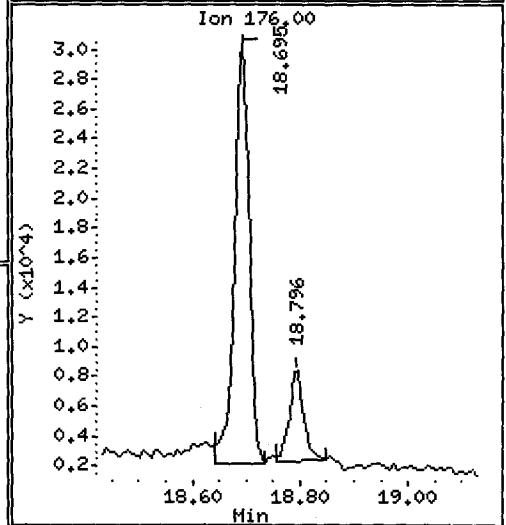
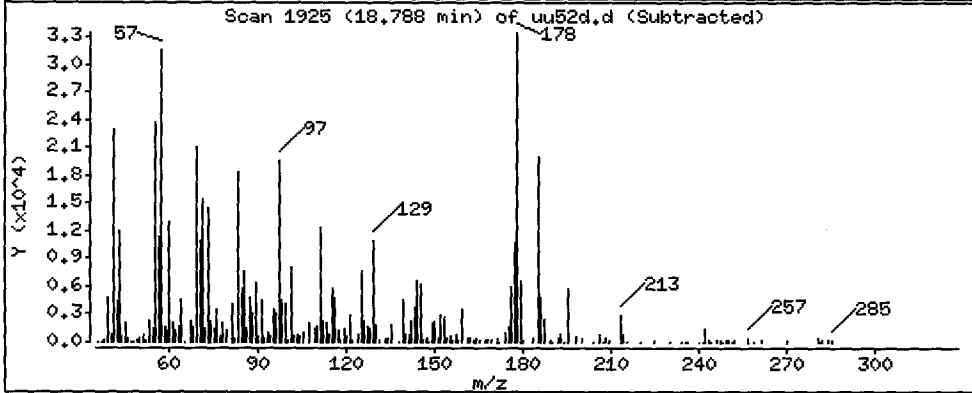
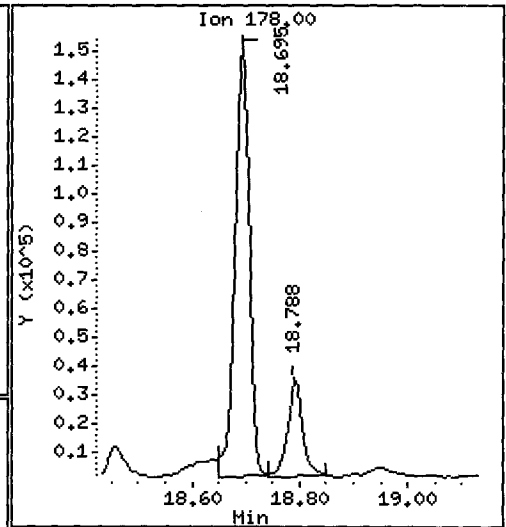
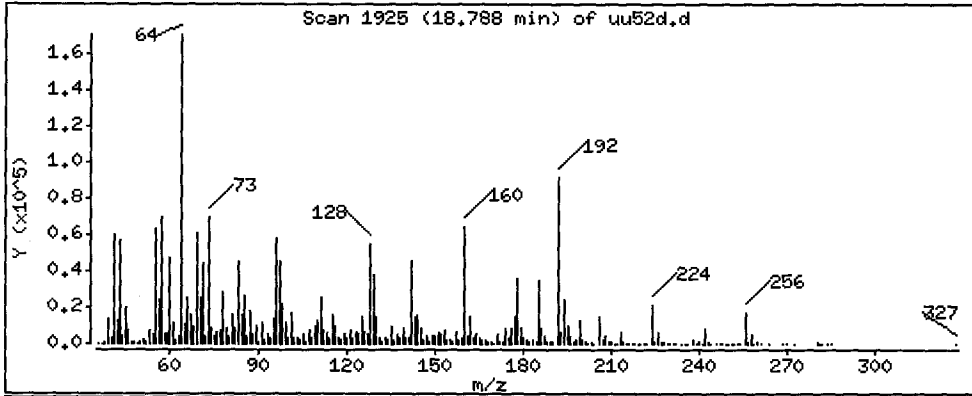
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 117.1 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

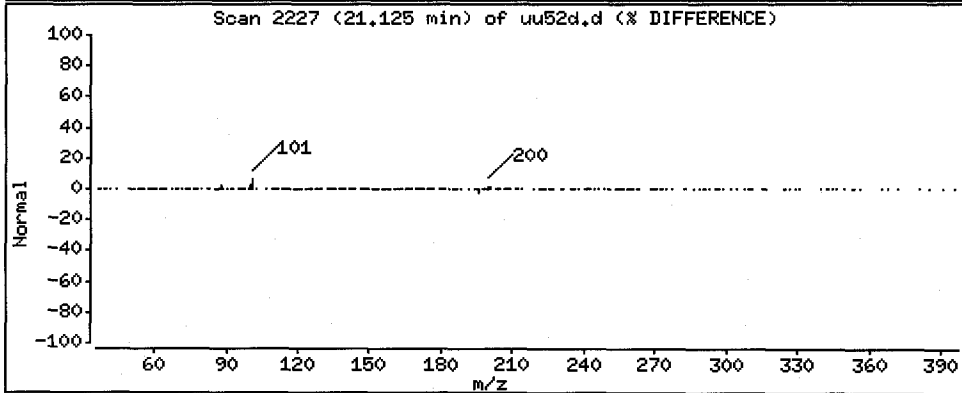
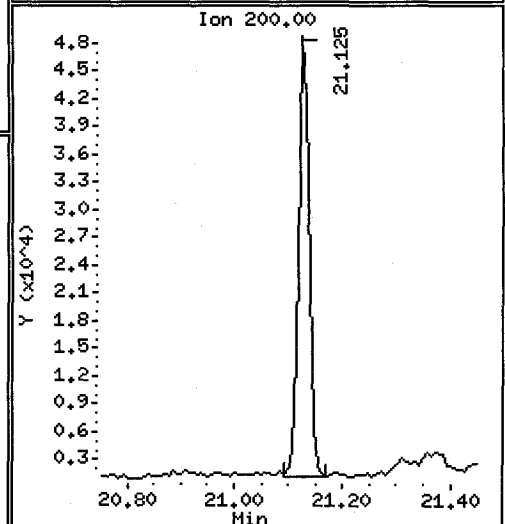
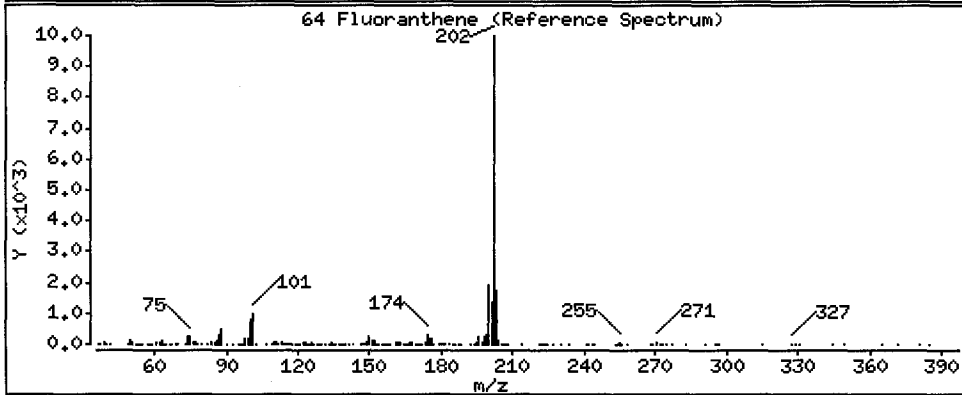
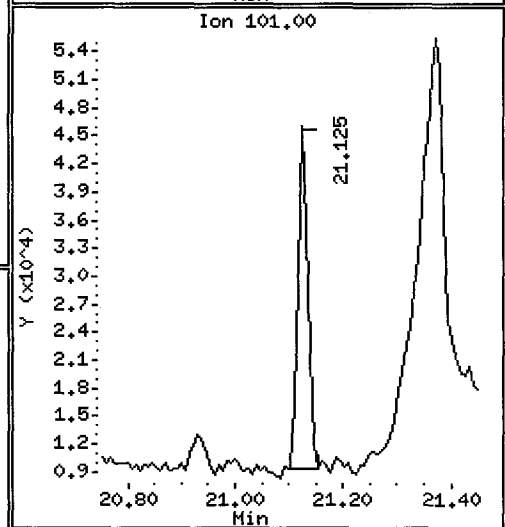
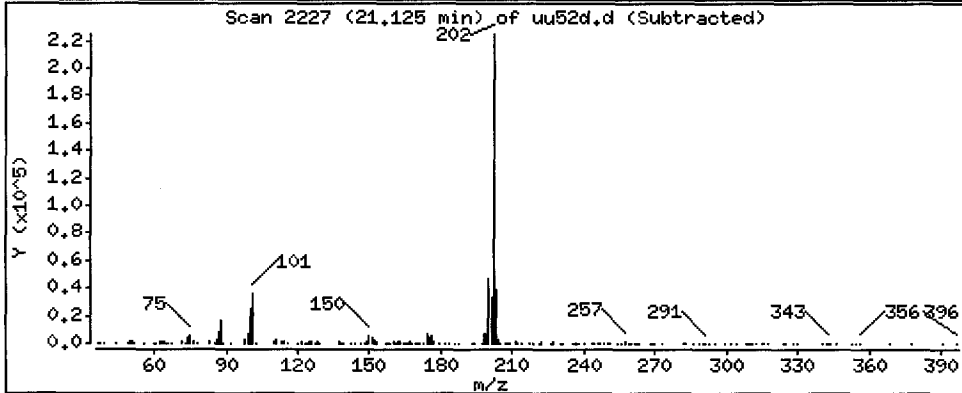
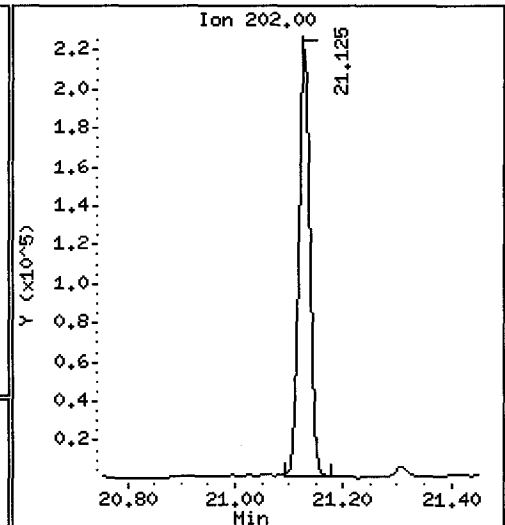
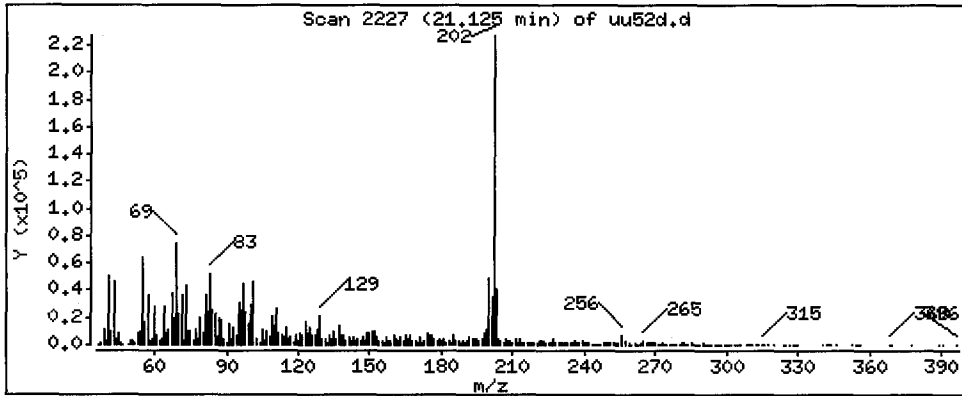
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 546.9 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

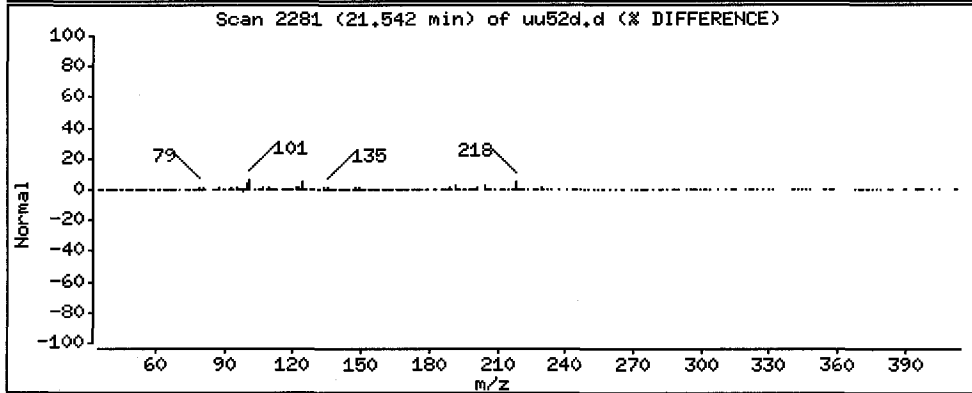
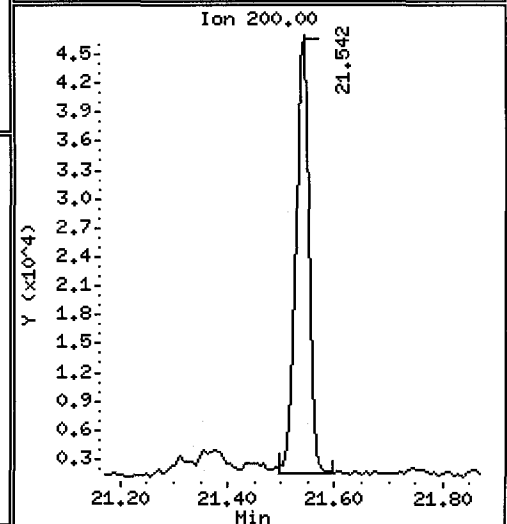
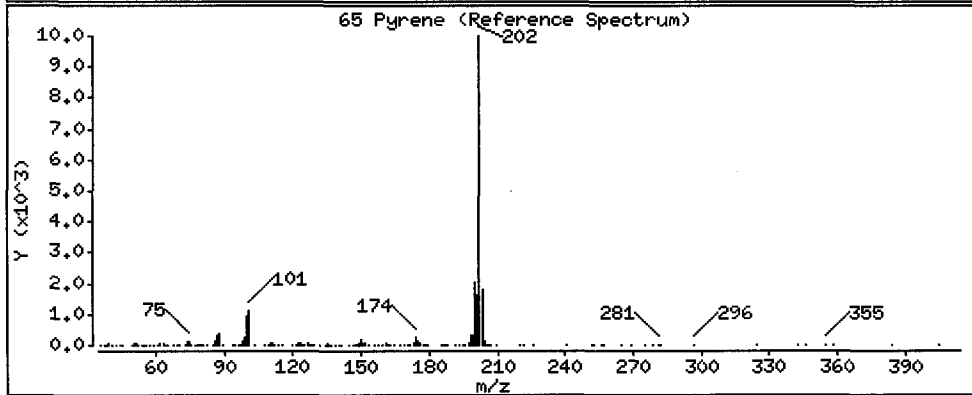
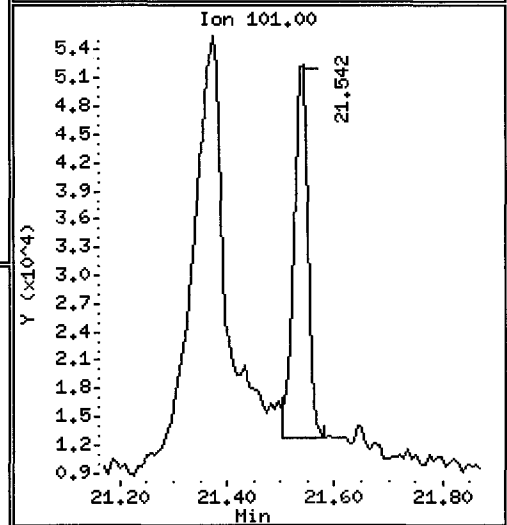
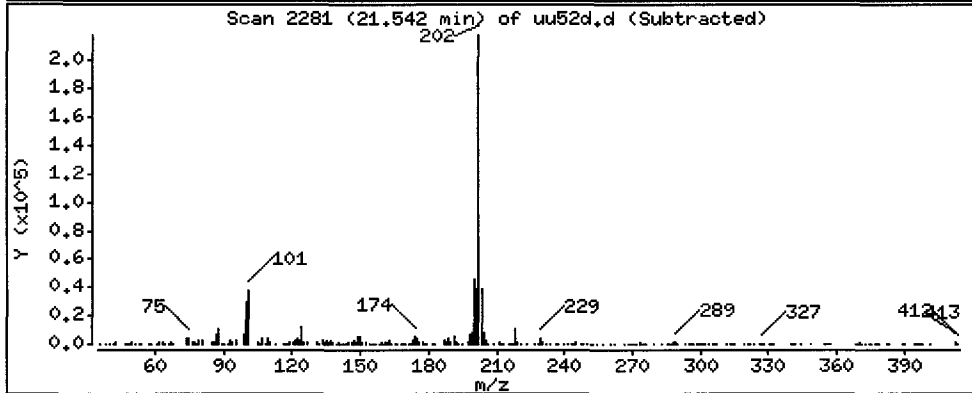
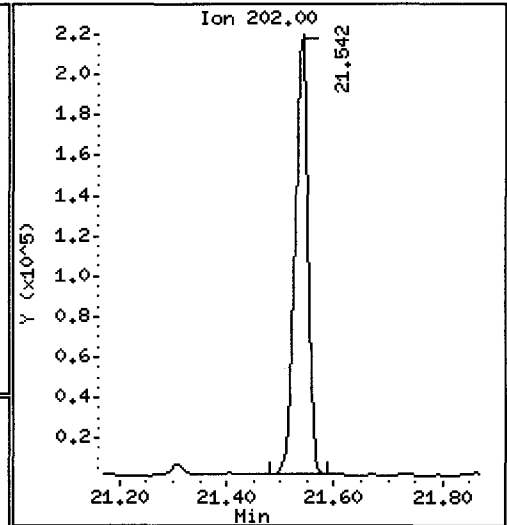
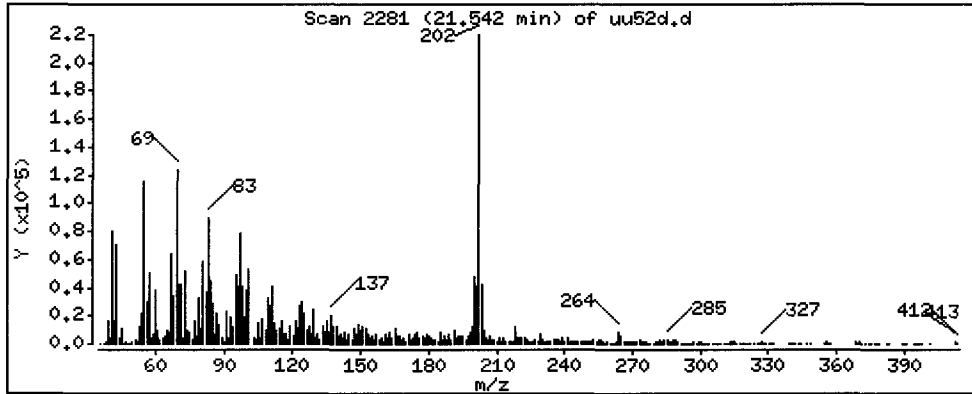
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 504.5 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

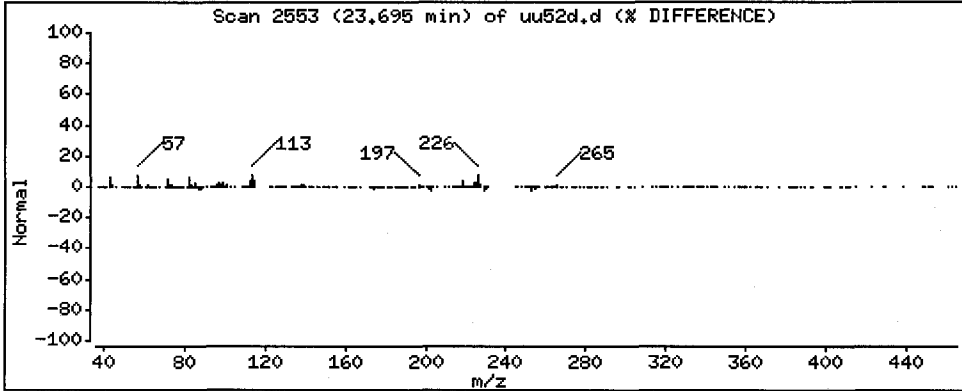
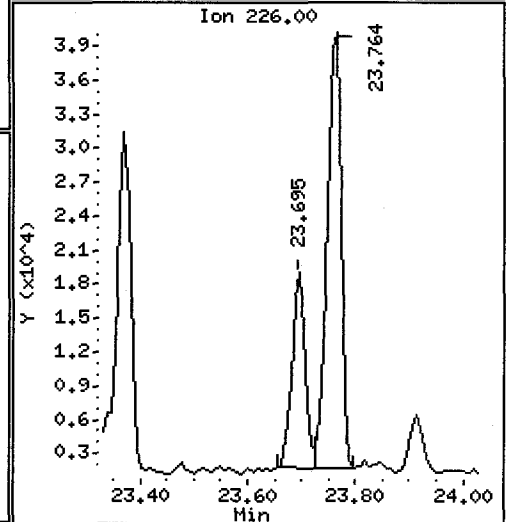
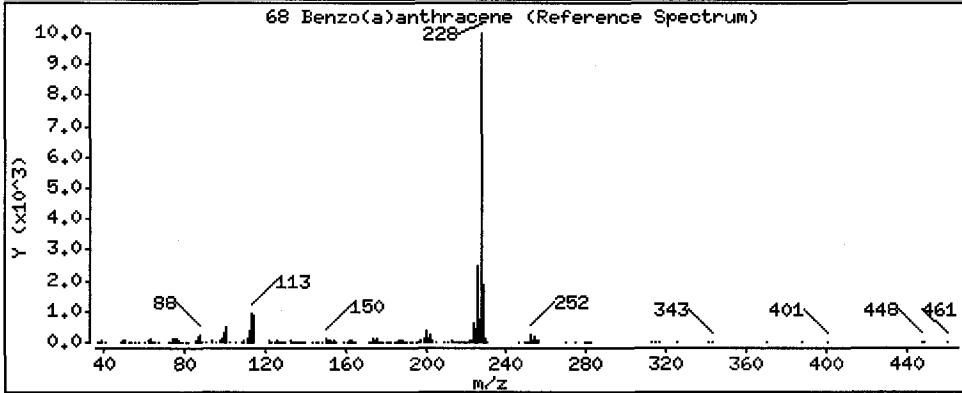
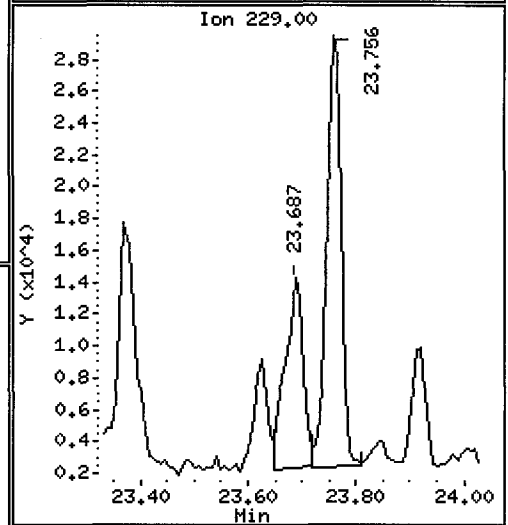
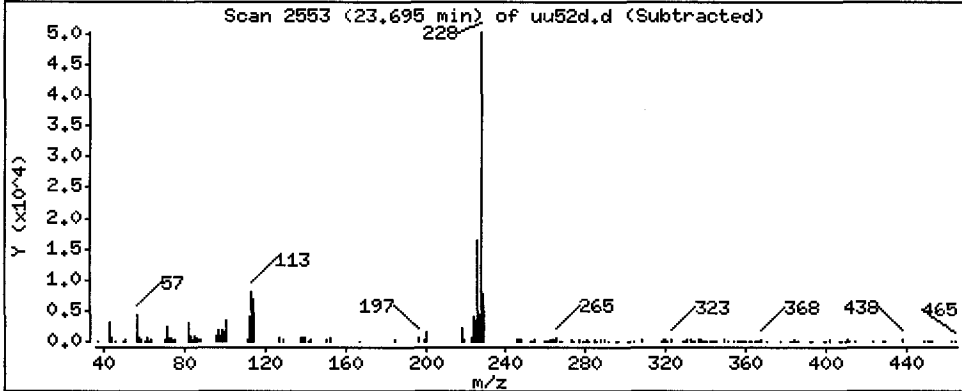
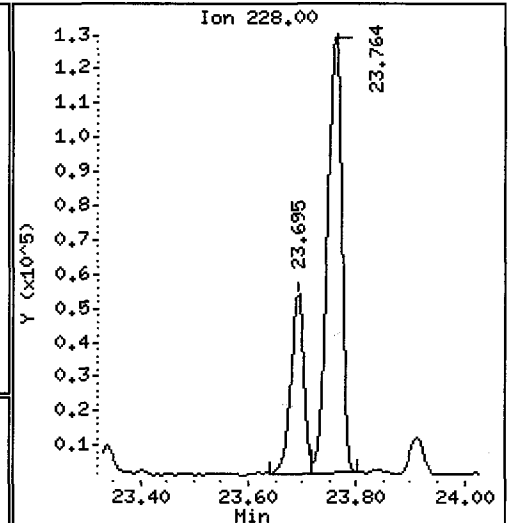
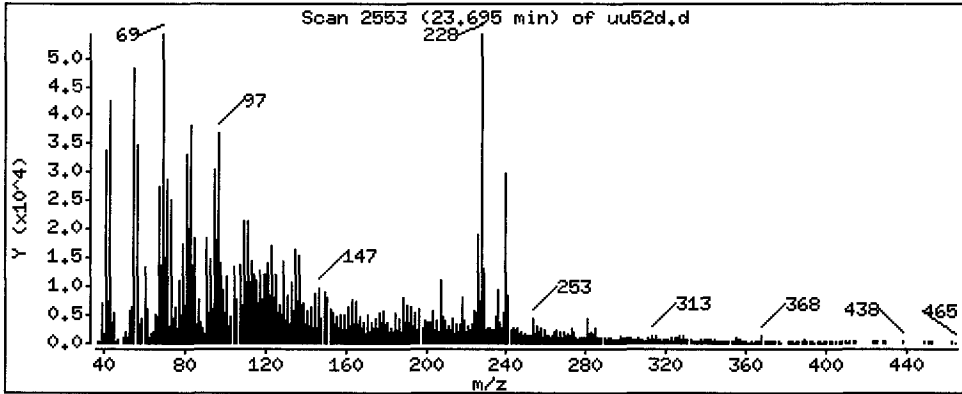
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 131.7 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

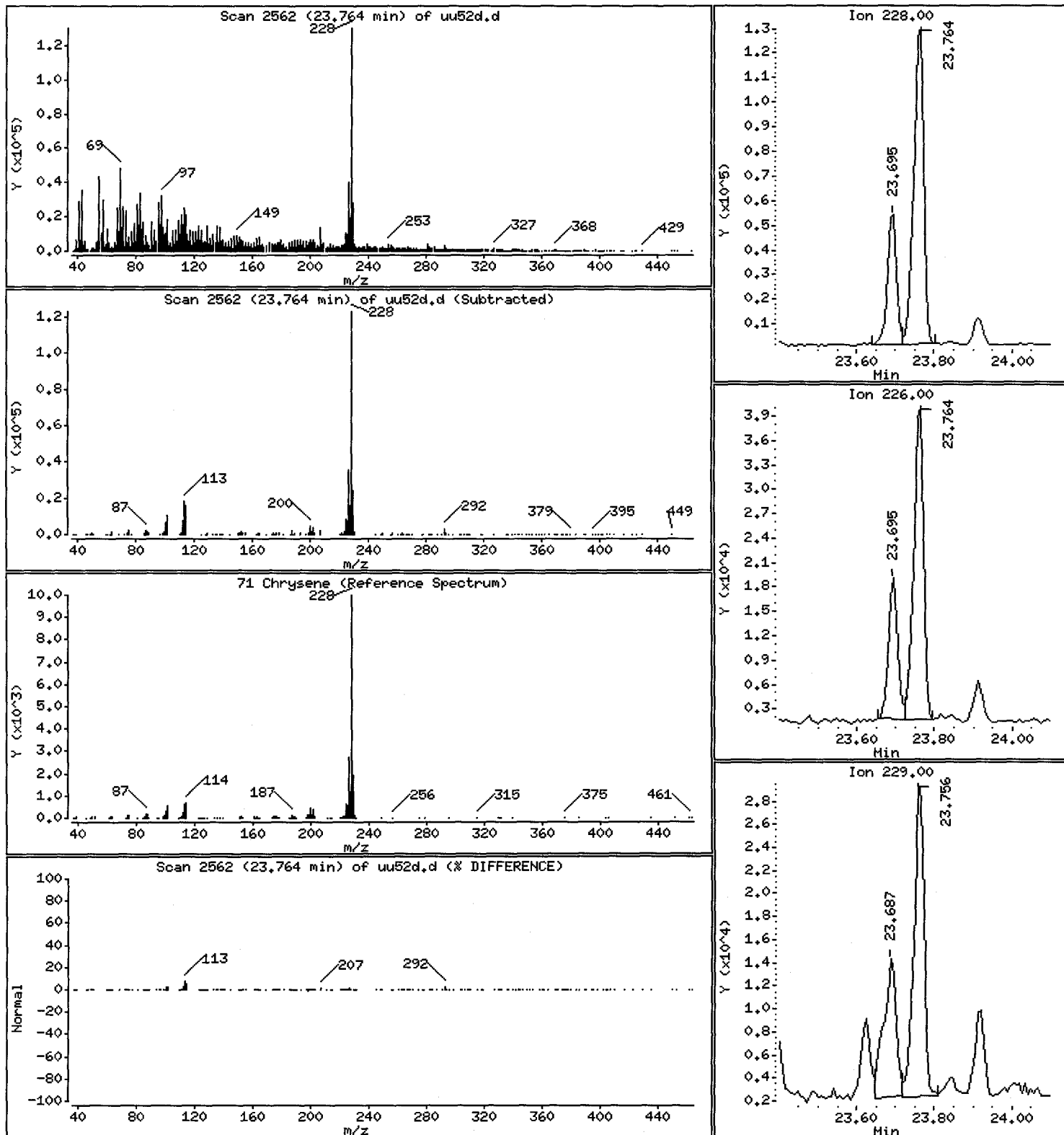
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 384.9 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

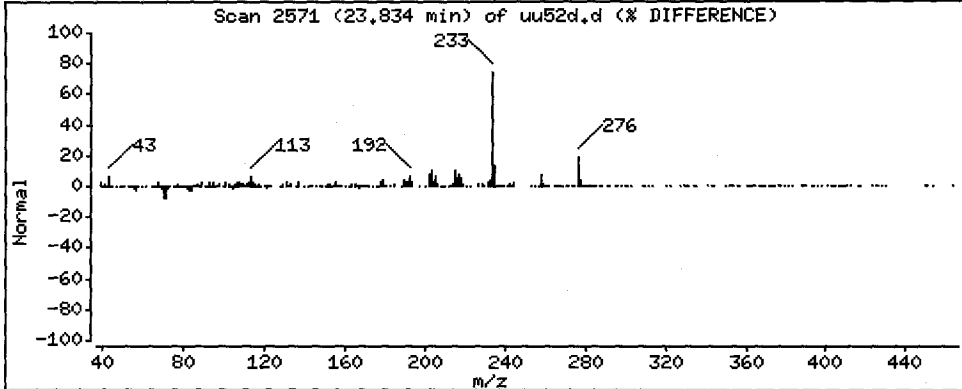
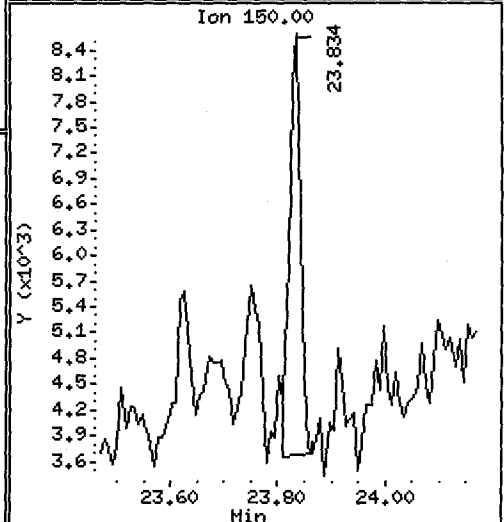
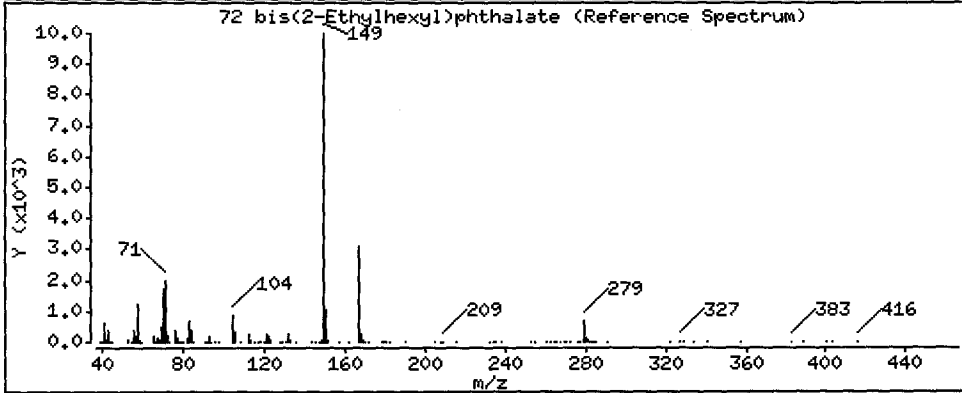
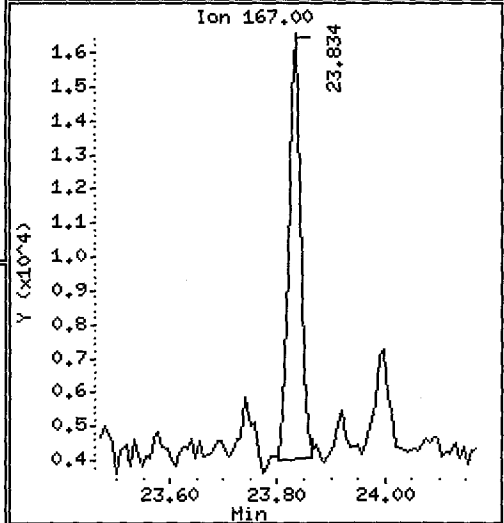
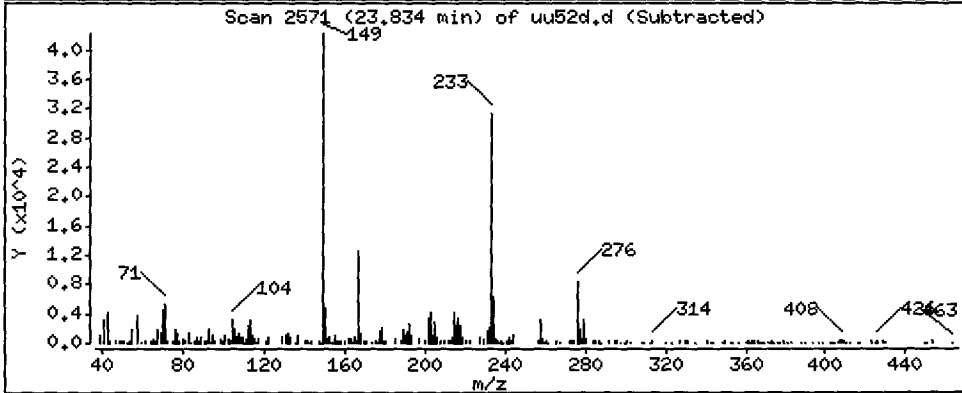
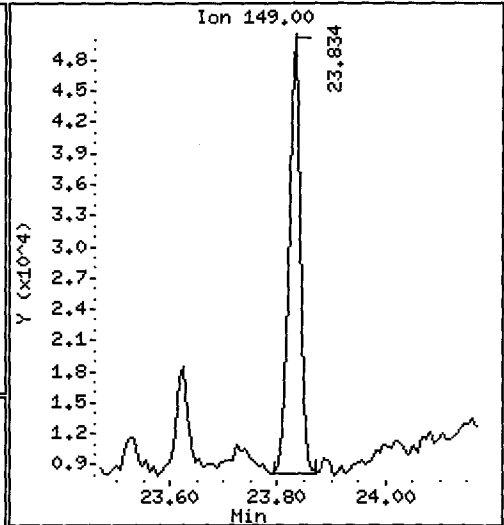
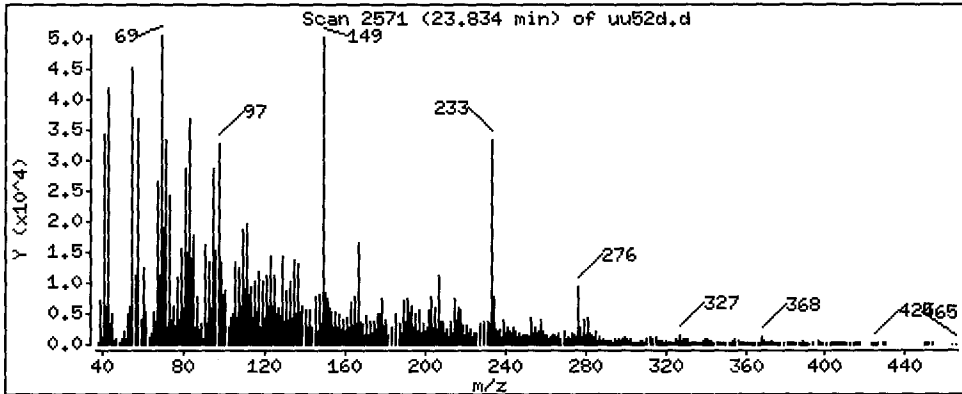
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

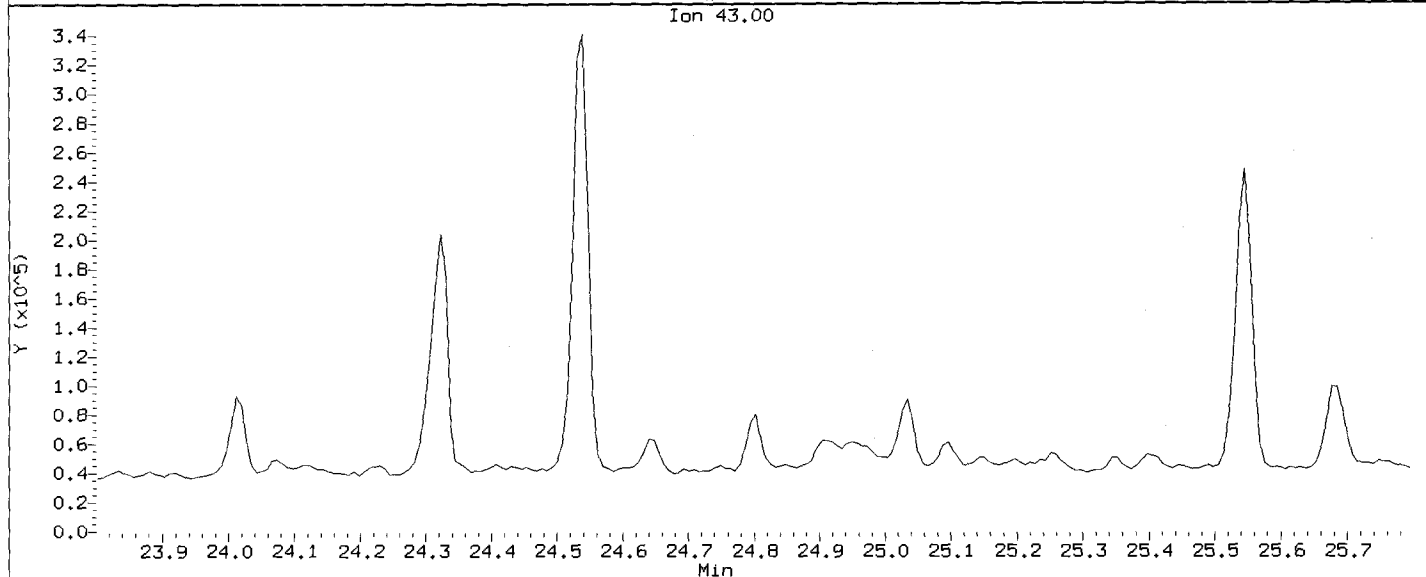
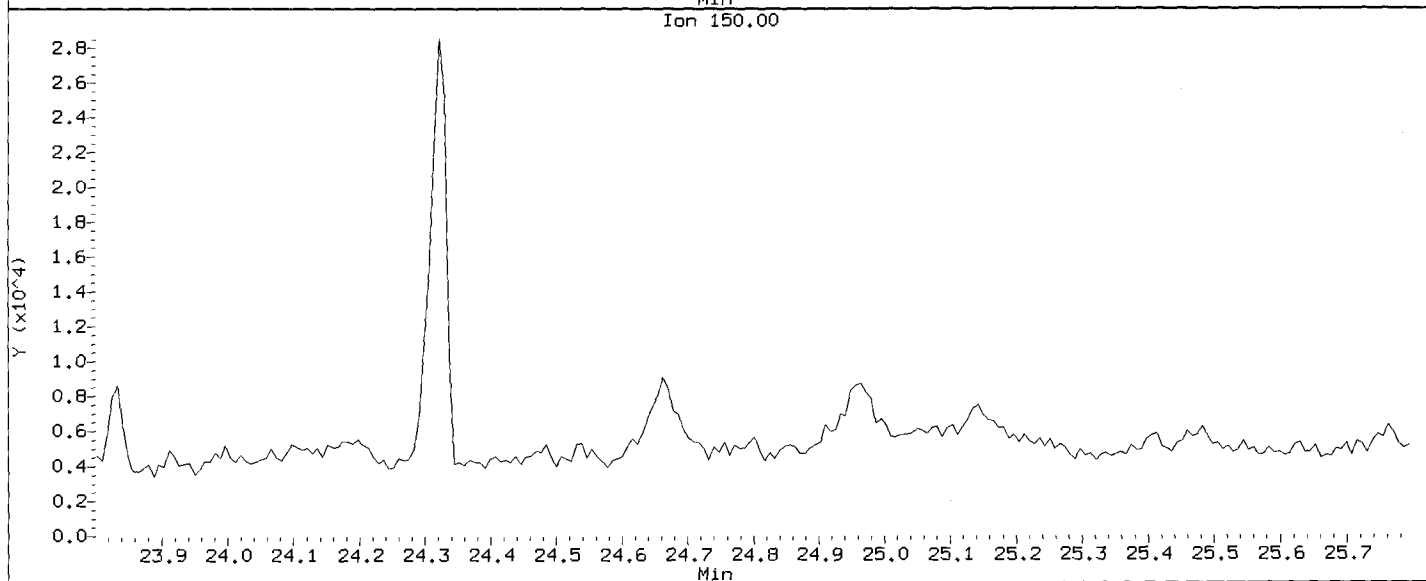
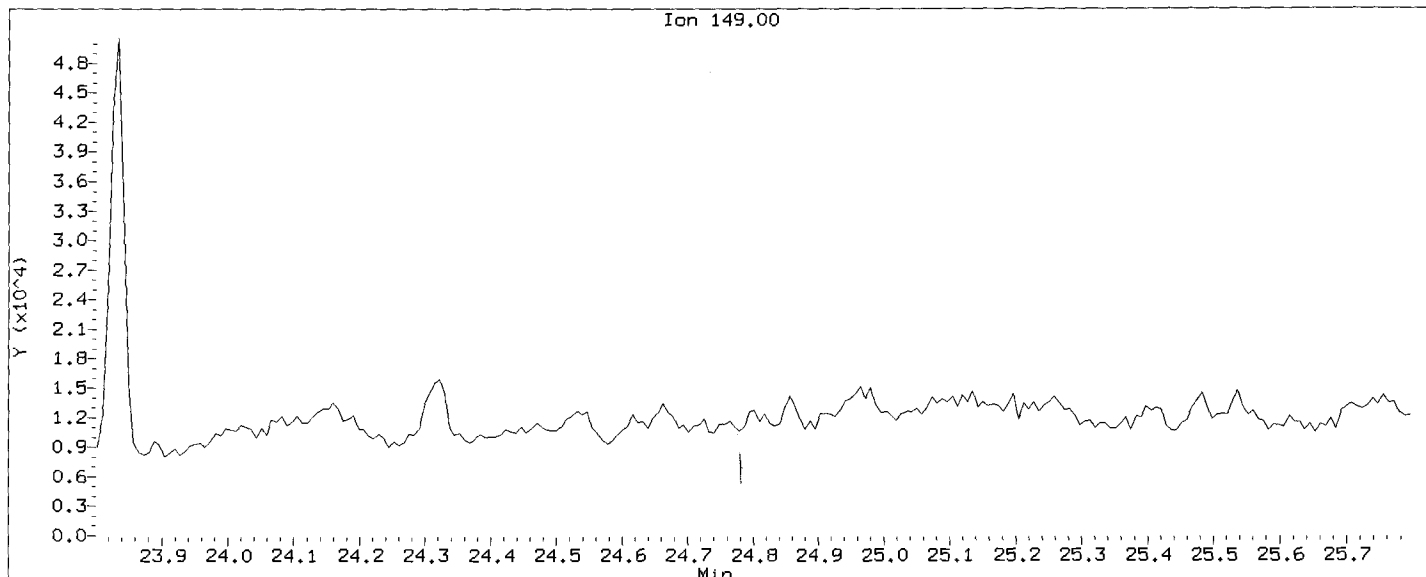
72 bis(2-Ethylhexyl)phthalate

Concentration: 121.4 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52d.d
Injection Date: 26-MAY-2012 19:02
Instrument: nt10.i
Client Sample ID: MS003-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

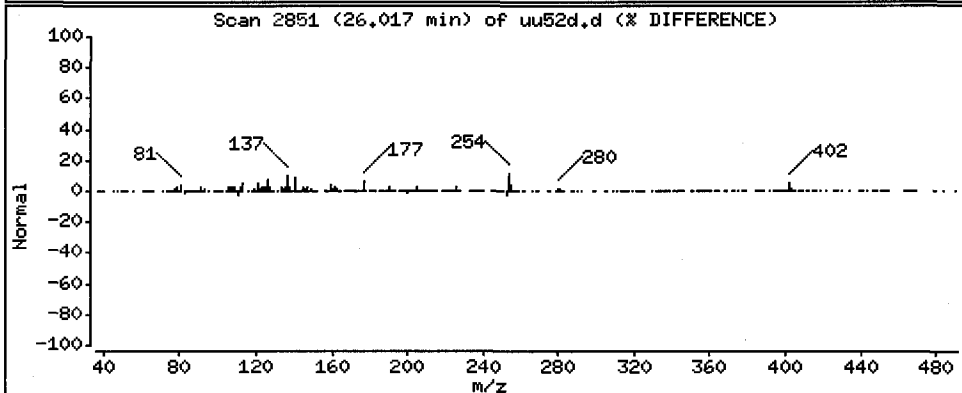
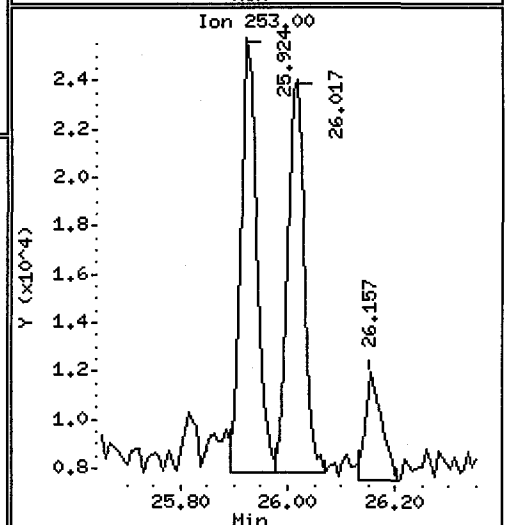
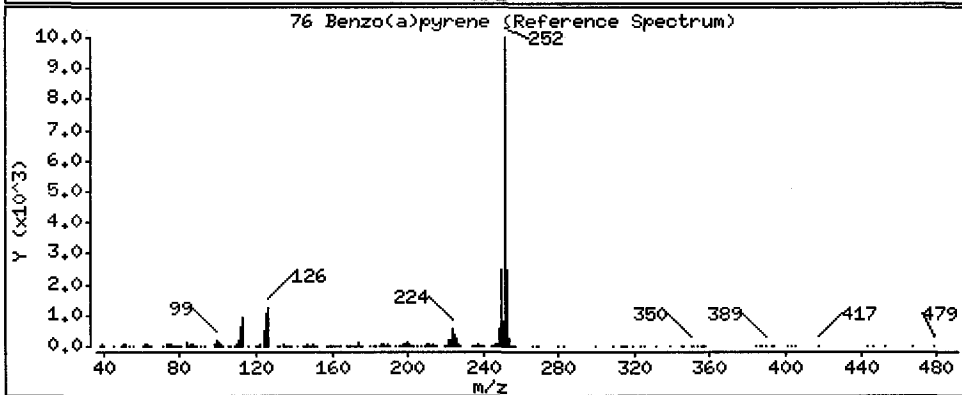
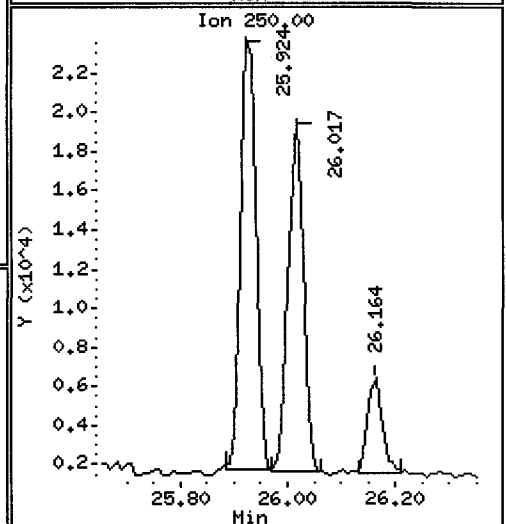
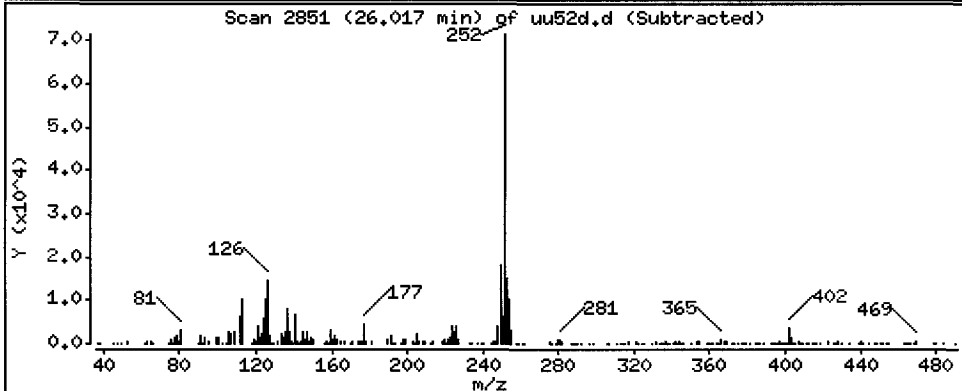
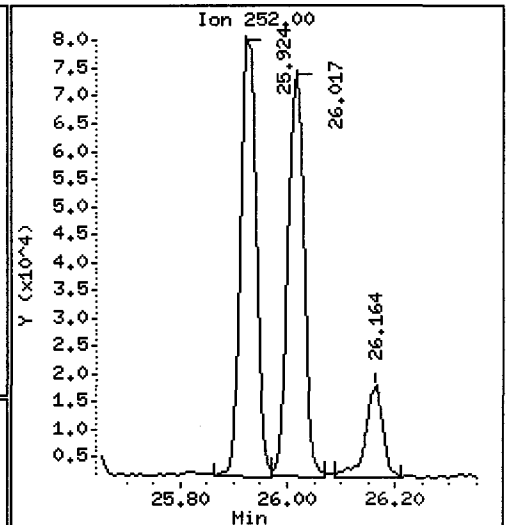
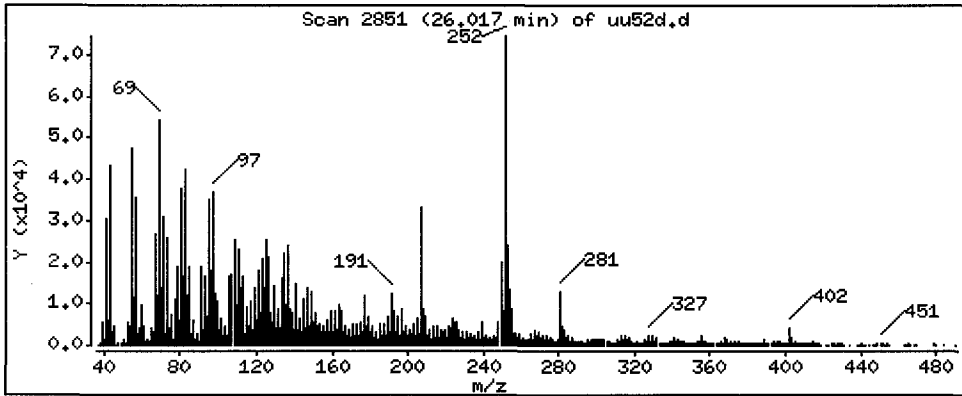
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 245.7 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

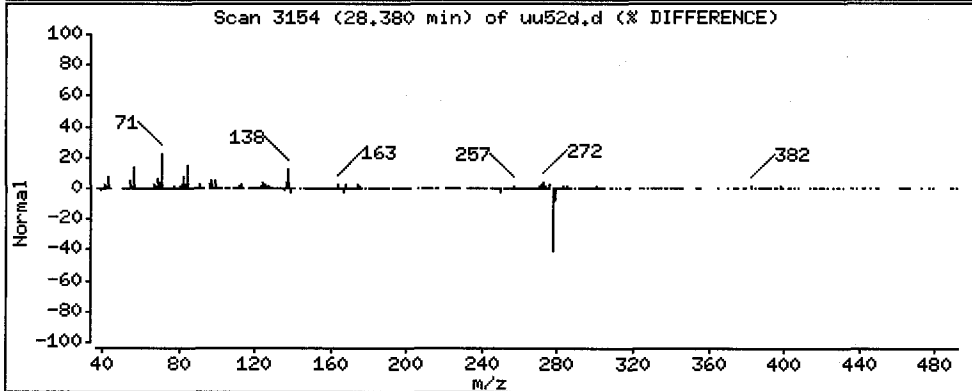
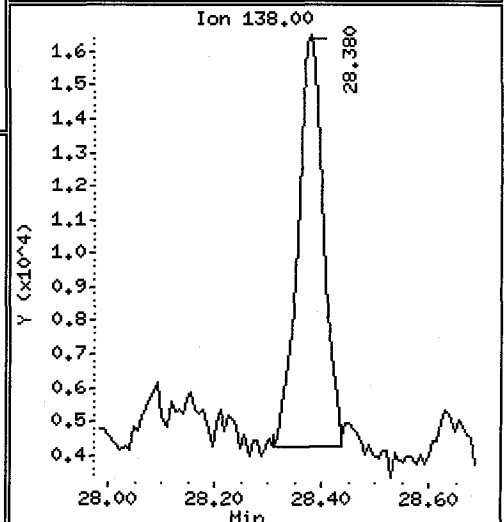
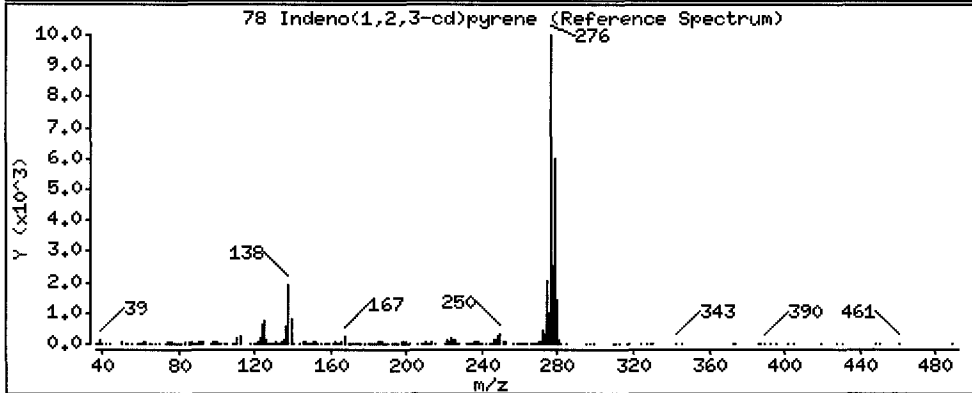
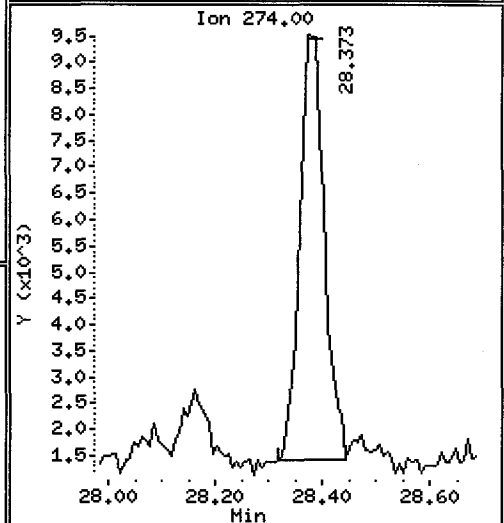
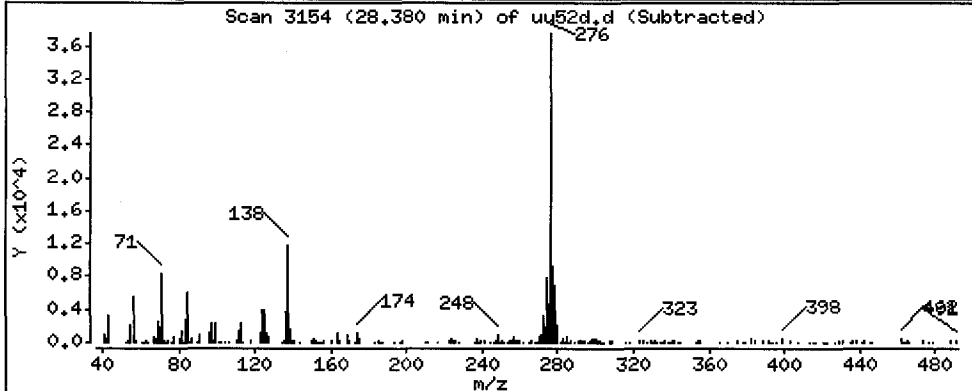
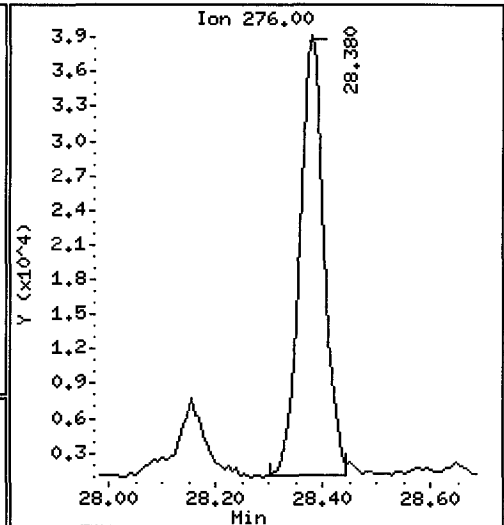
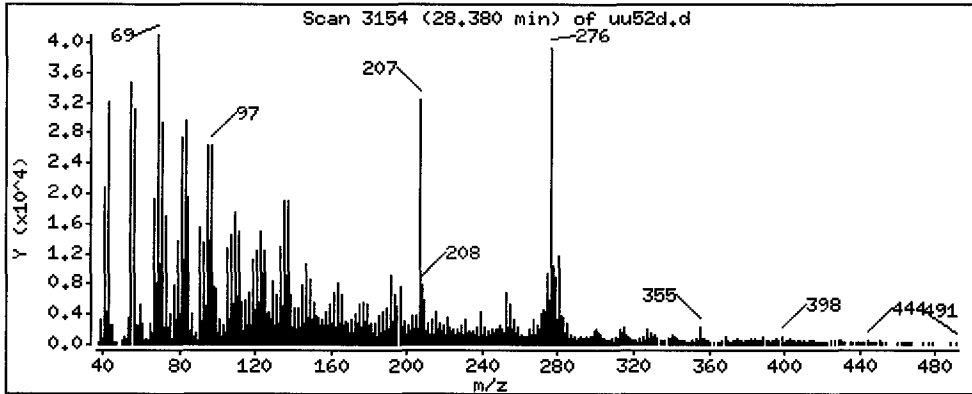
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 173.5 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

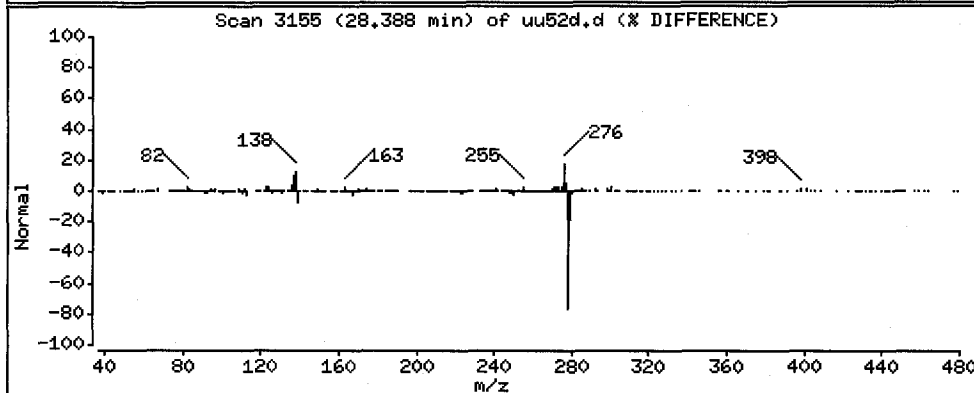
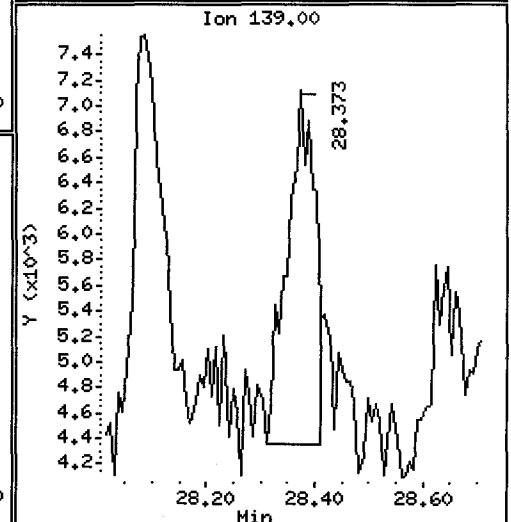
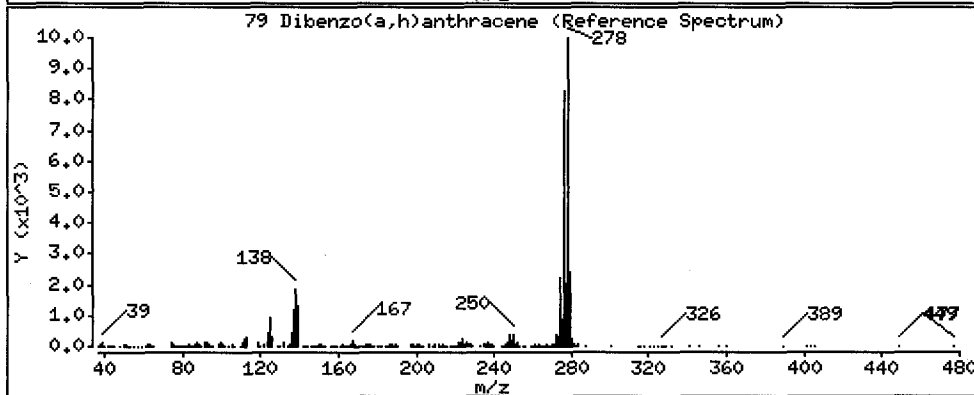
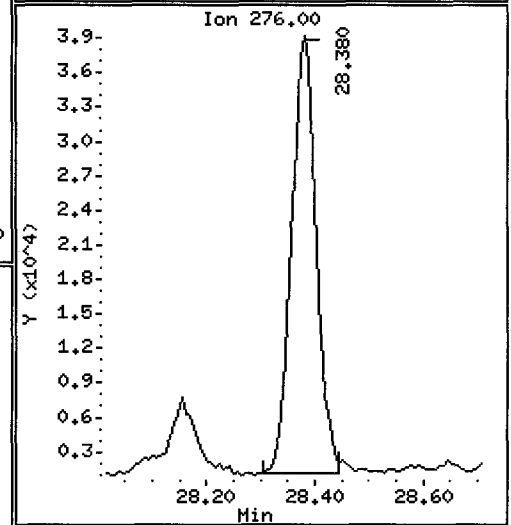
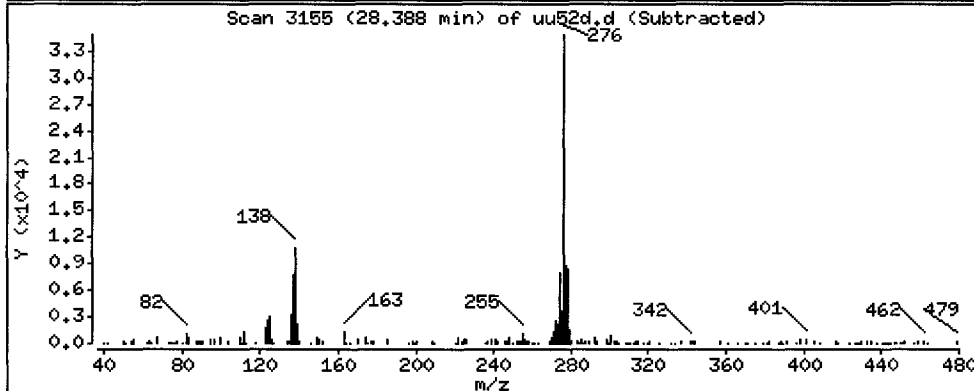
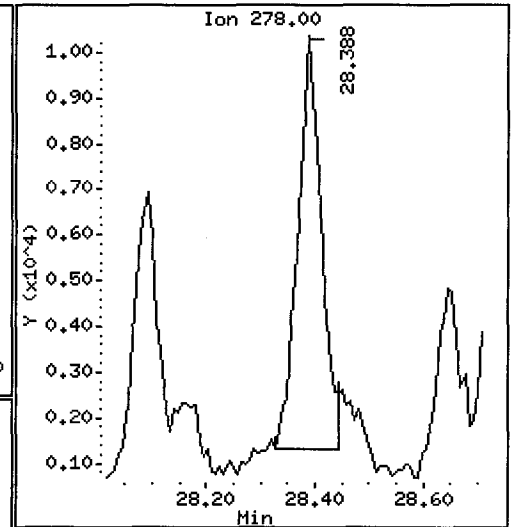
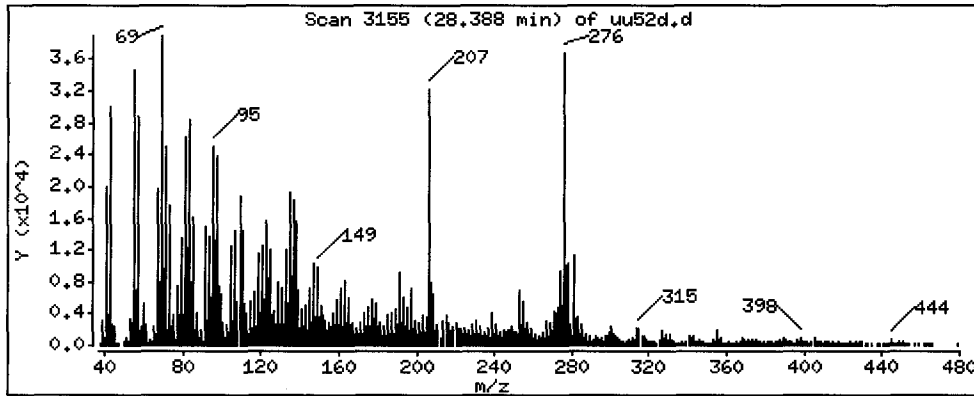
Column phase: ZB-5msi

Column diameter: 0.25

YZ

79 Dibenzo(a,h)anthracene

Concentration: 50.12 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

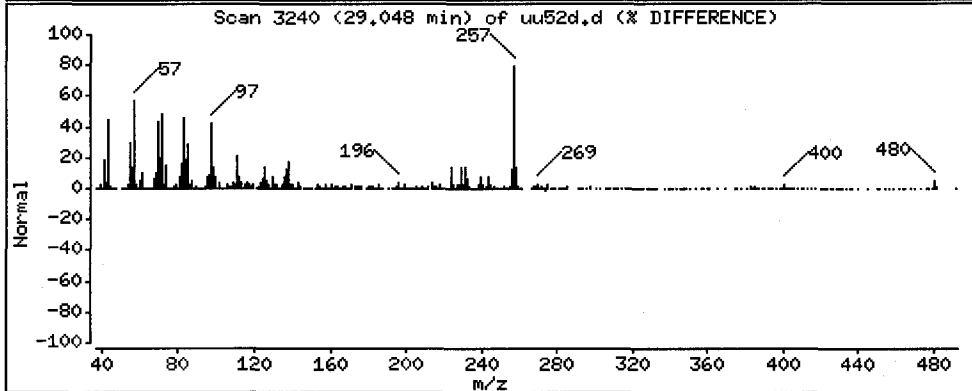
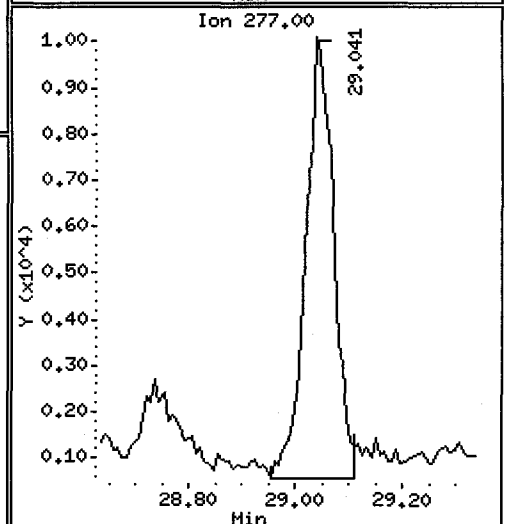
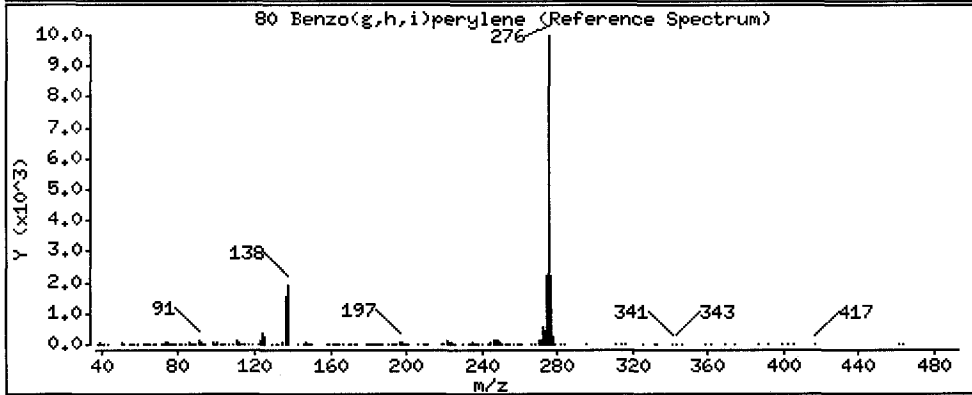
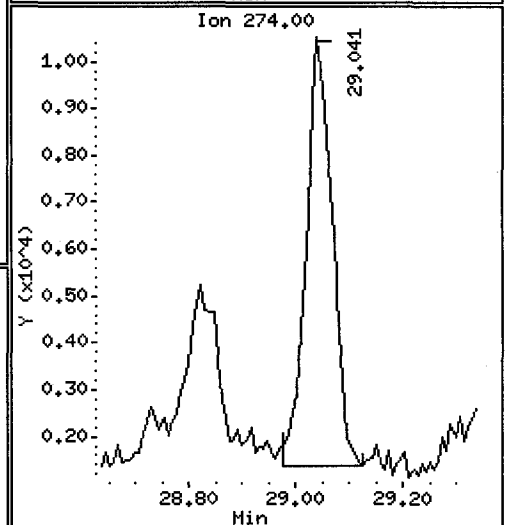
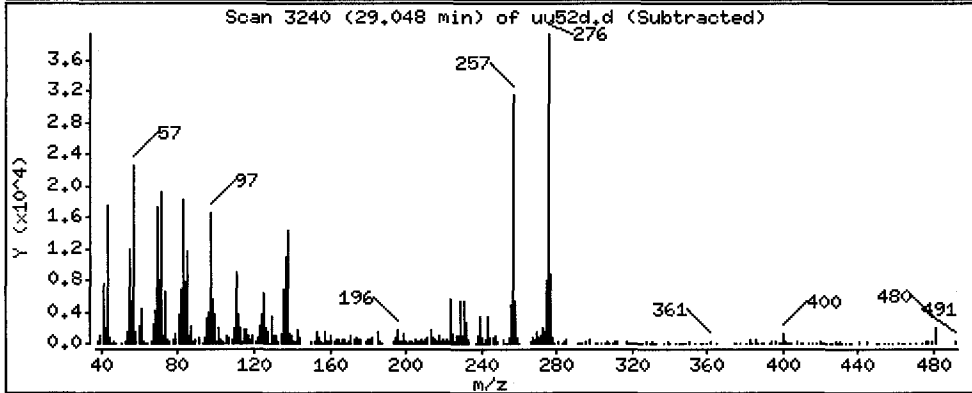
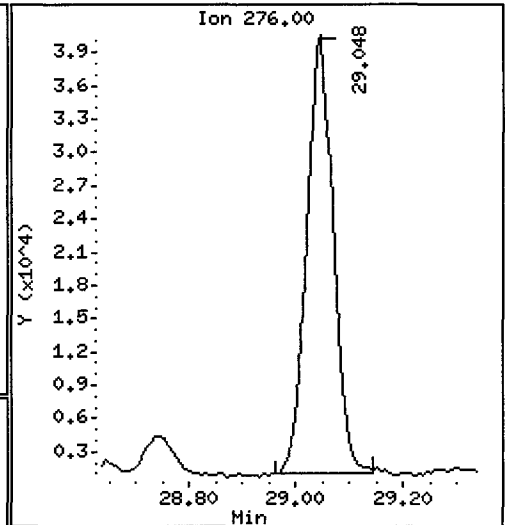
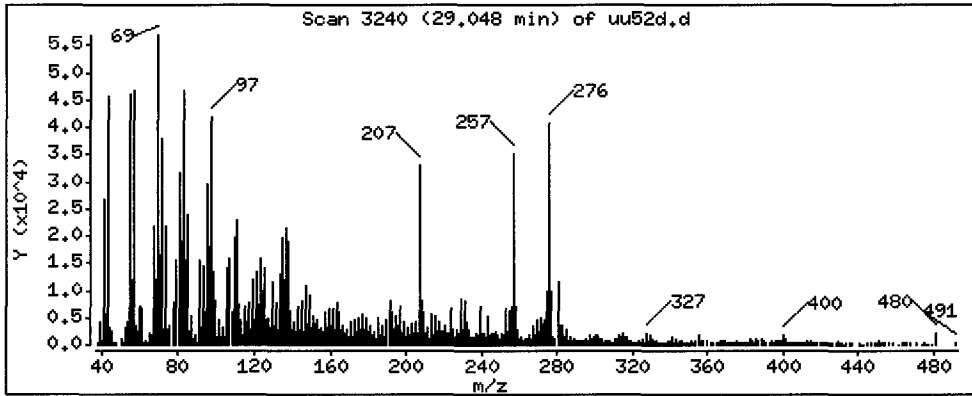
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 225.4 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

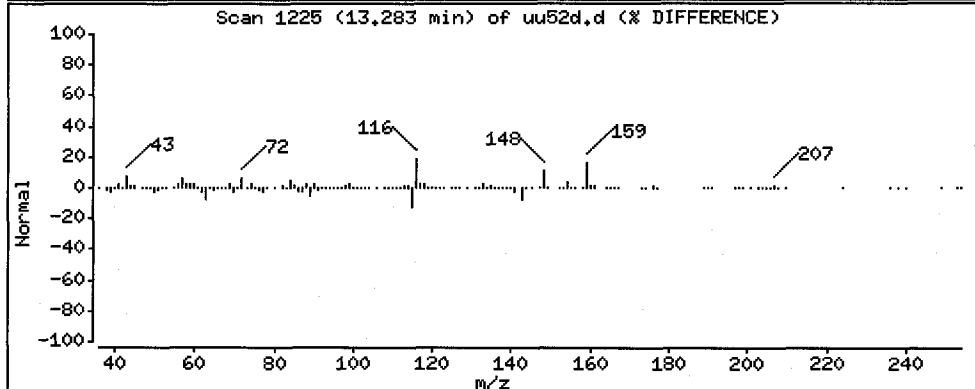
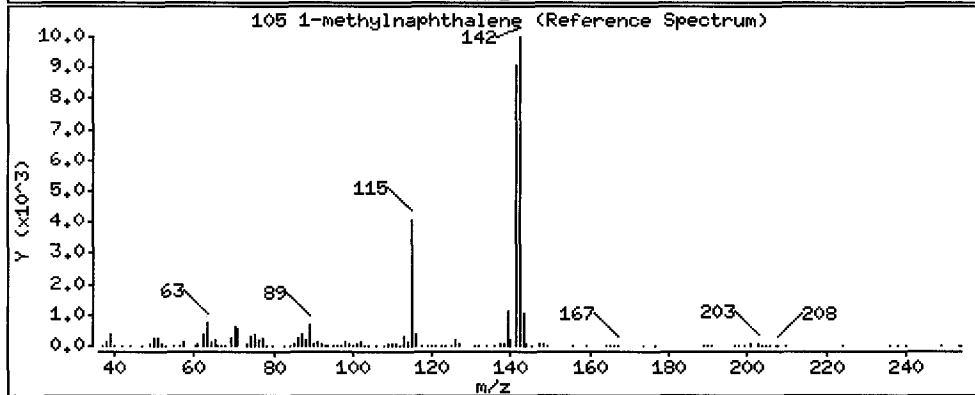
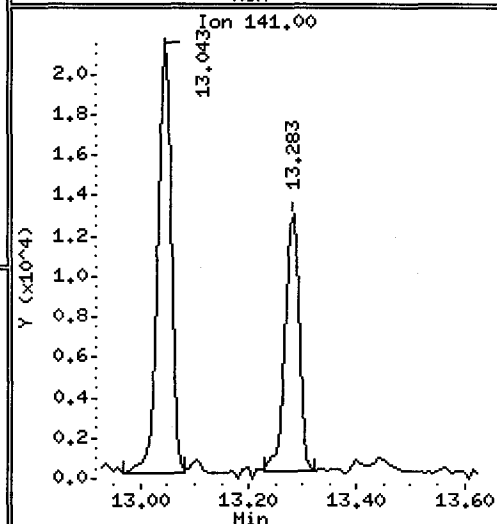
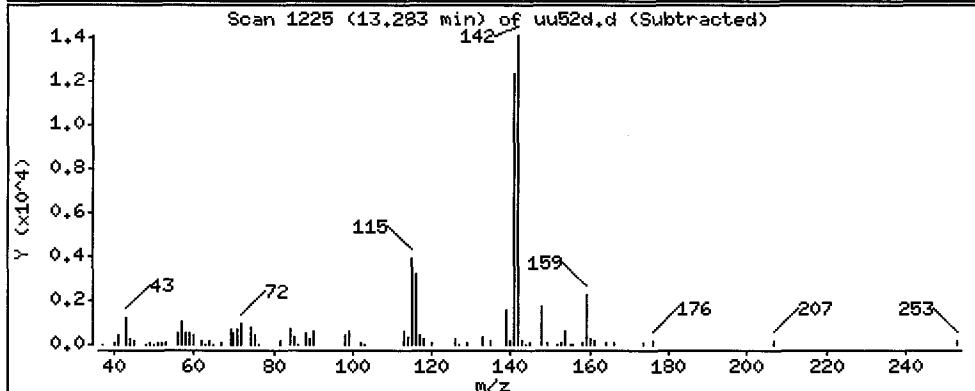
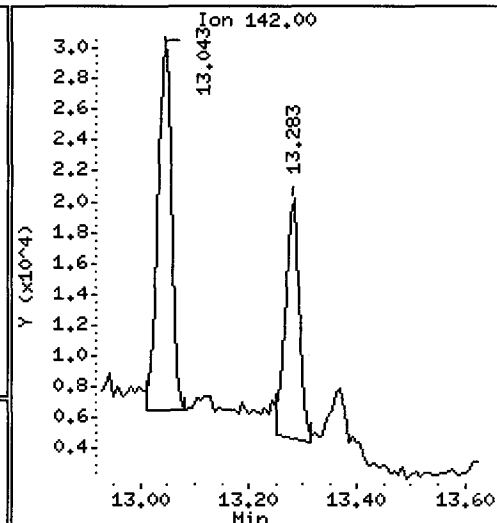
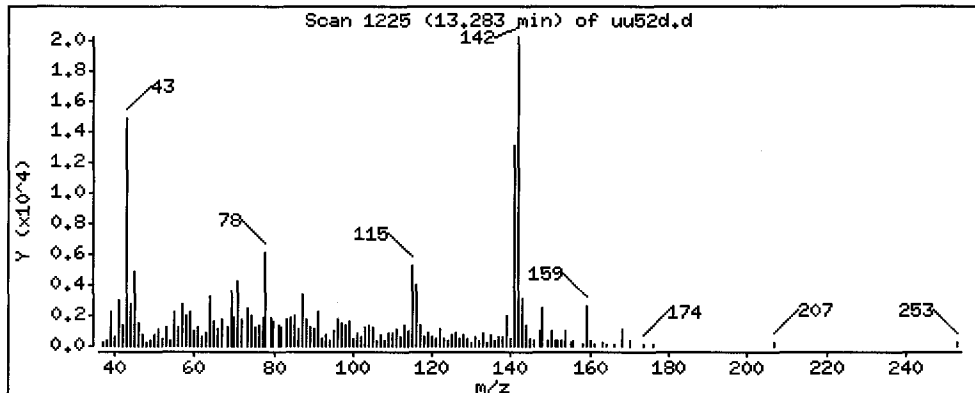
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 56.43 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

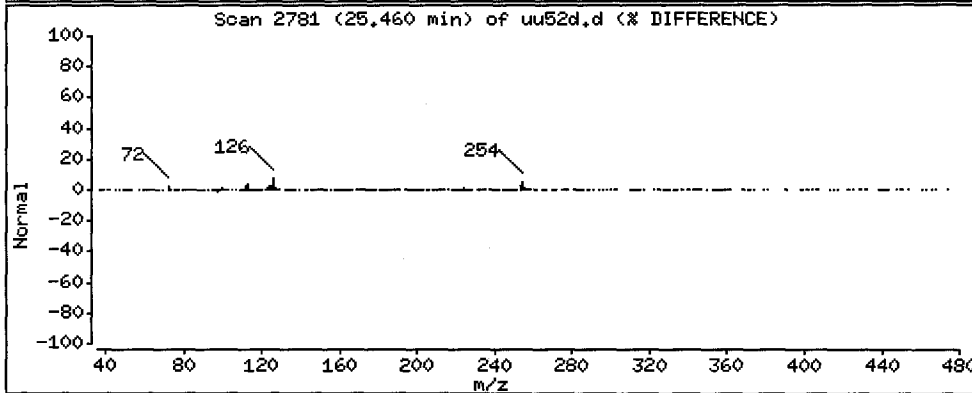
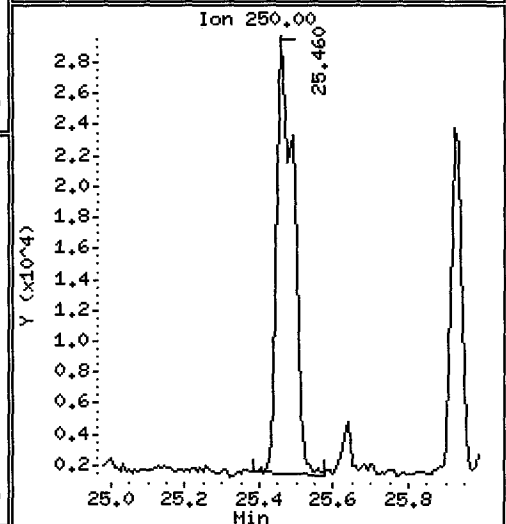
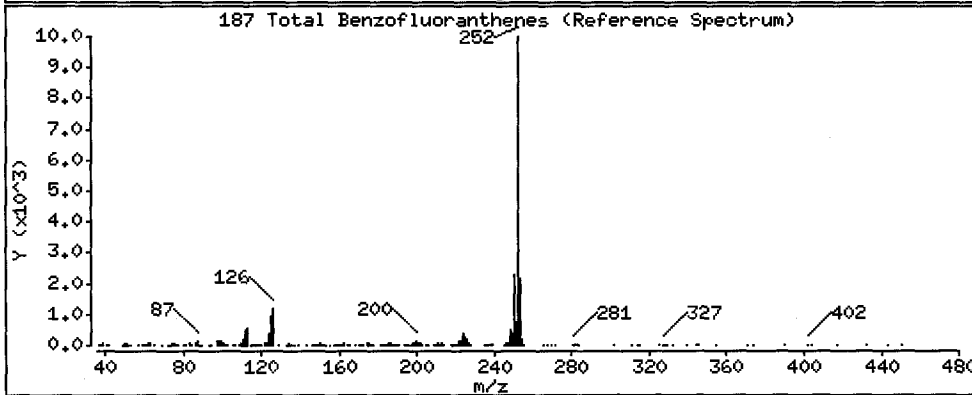
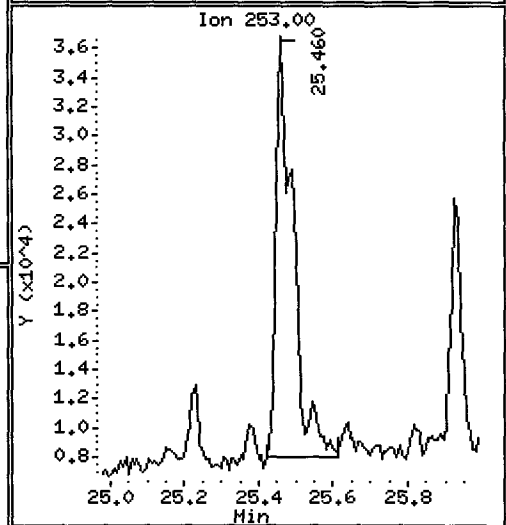
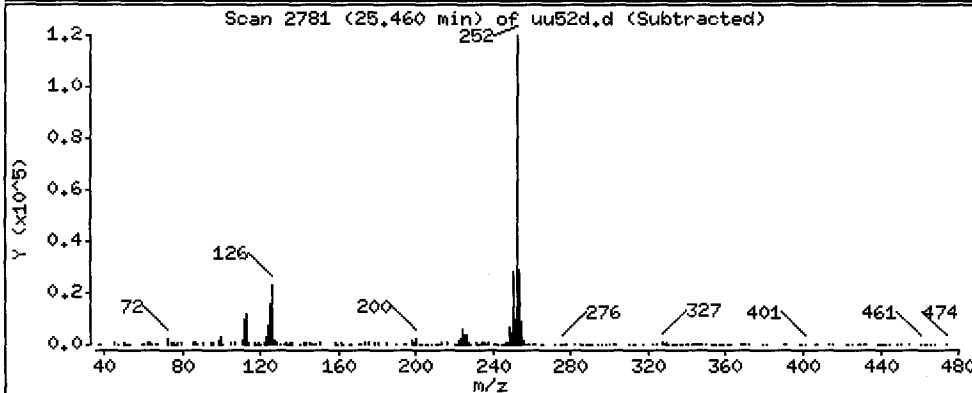
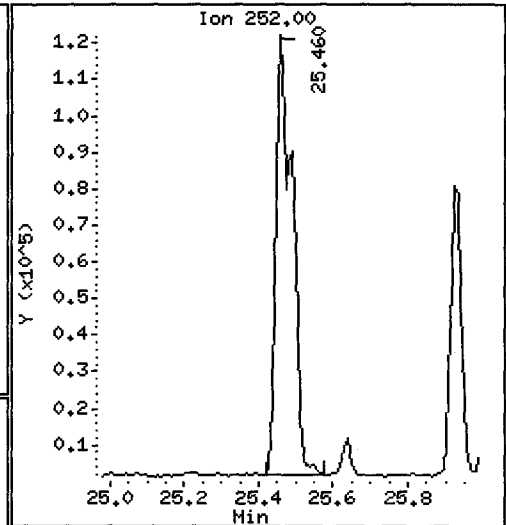
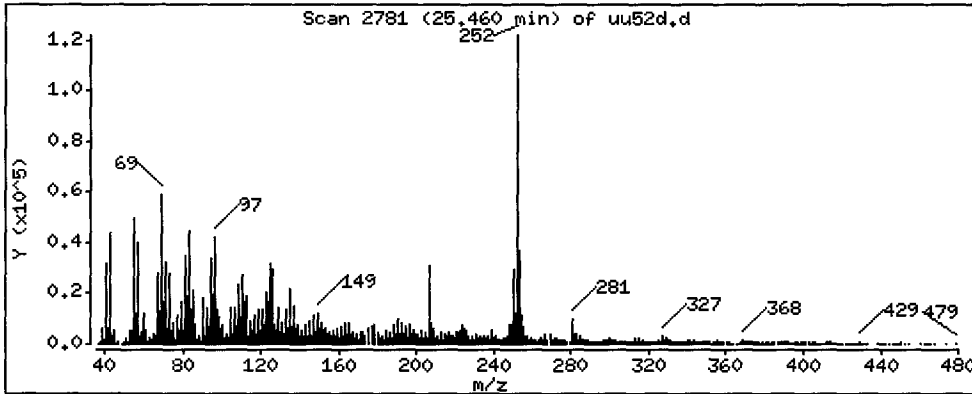
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 572.3 ug/kg



Date : 26-MAY-2012 19:02

Client ID: MS003-SS-120515

Instrument: nt10.i

Sample Info: UU52D,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

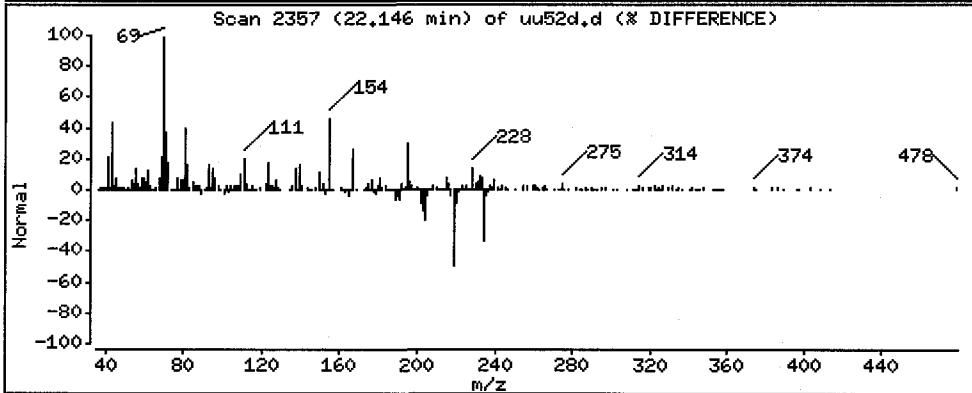
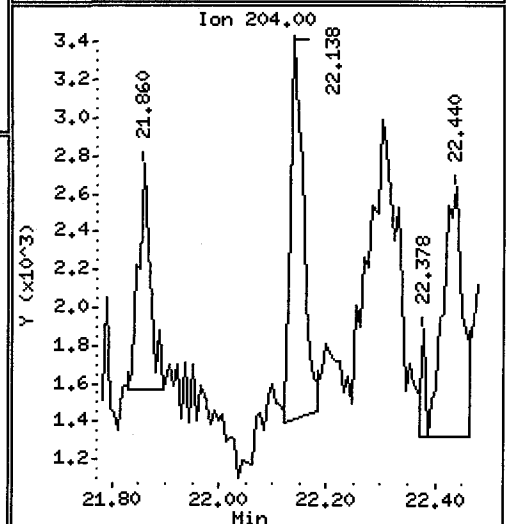
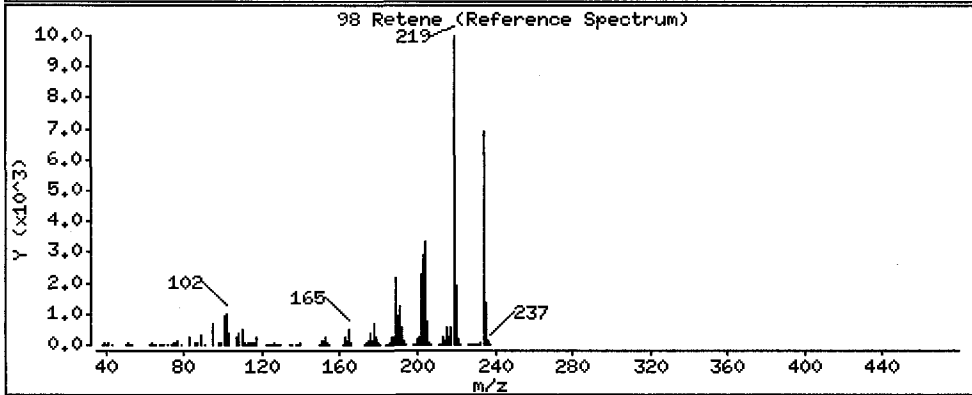
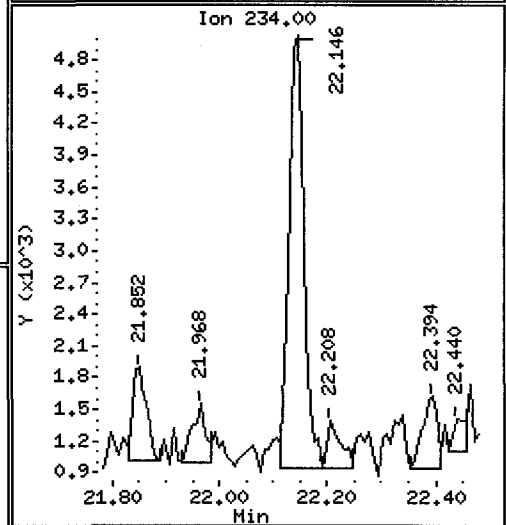
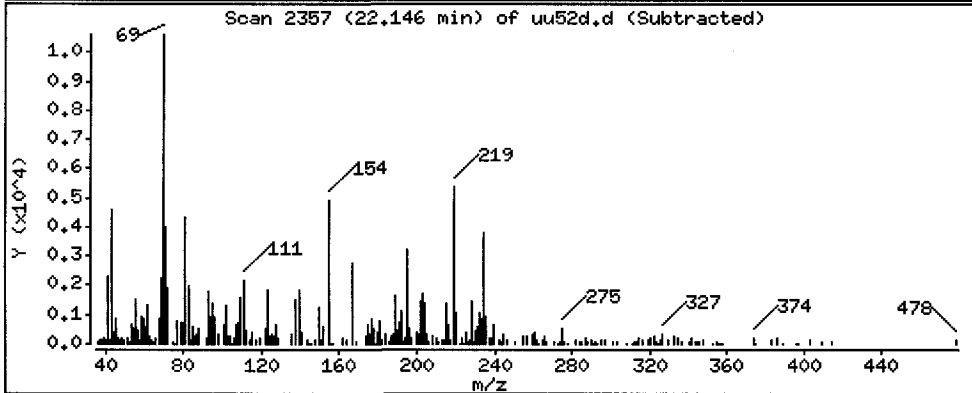
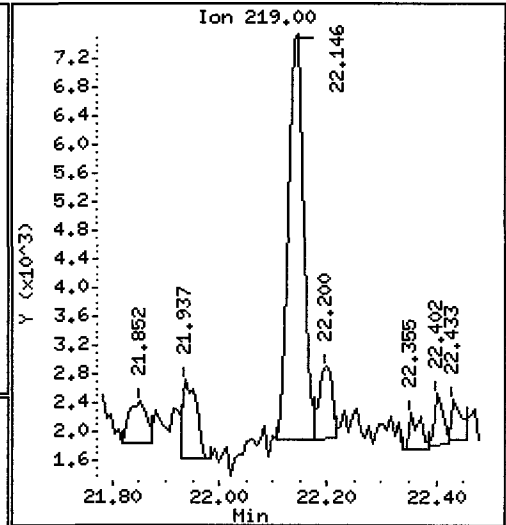
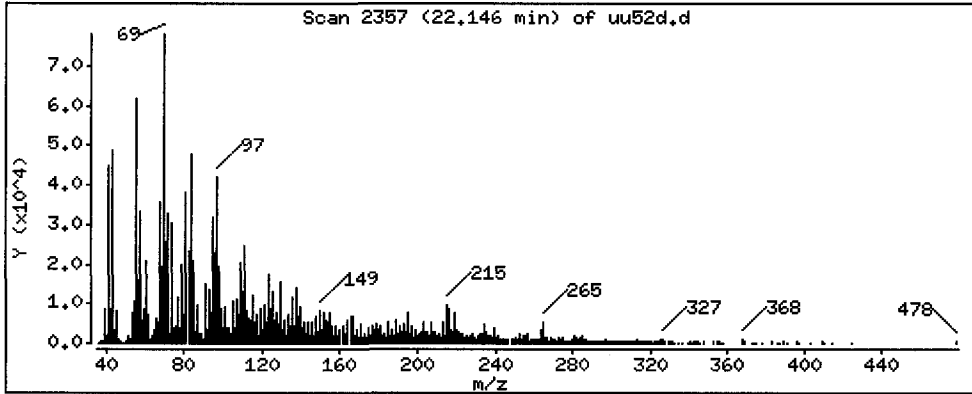
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

Concentration: 31.56 ug/kg

GC



CO-ELUTION SUMMARY FOR FILE - uu52d.d

Lab ID: UU52D, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YZ 4/4/12

Data file : /chem1/nt10.i/20120526.b/uu52e.d
 Lab Smp Id: UU52E Client Smp ID: MS004-SS-120515
 Inj Date : 26-MAY-2012 19:39
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52E,3
 Misc Info : 12-8897
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 7
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 105.00000 | Weight of sample extracted (g) |
| M | 90.40000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.560 | 6.537 | (0.740) | 108495 | 1.57295 | 468.1 |
| \$ 2 Phenol-d5 | 99 | 8.252 | 8.237 | (0.931) | 137061 | 1.59520 | 474.8 |
| 3 Phenol | 94 | 8.275 | 8.260 | (0.934) | 60378 | 0.65927 | 196.2 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.492 | 8.476 | (0.958) | 123380 | 1.63903 | 487.8 |
| 4 Bis(2-Chloroethyl) ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.855 | (1.000) | 197248 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.244 | 9.236 | (1.043) | 48012 | 0.97226 | 289.4 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | | 108 | 9.740 | 9.725 | (1.099) | 173813 | 2.30807 | 686.9 |
| \$ 18 Nitrobenzene-d5 | | 82 | 10.028 | 10.027 | (0.872) | 72946 | 1.03194 | 307.1 |
| 19 Nitrobenzene | | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | | 105 | 11.034 | 11.087 | (0.959) | 59224 | 1.30364 | 388.0 |
| 25 2,4-Dichlorophenol | | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | | 136 | 11.504 | 11.504 | (1.000) | 788940 | 4.00000 | |
| 28 Naphthalene | | 128 | 11.543 | 11.542 | (1.003) | 928037 | 4.66604 | 1389 |
| 29 4-Chloroaniline | | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | | 142 | 13.043 | 13.043 | (1.134) | 124956 | 0.90373 | 269.0 |
| 33 Hexachlorocyclopentadiene | | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | | 172 | 13.902 | 13.902 | (0.904) | 171209 | 1.14678 | 341.3 |
| 37 2-Chloronaphthalene | | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | | 152 | 15.040 | 15.032 | (0.978) | 49975 | 0.25837 | 76.90 |
| 41 2,6-Dinitrotoluene | | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | | 164 | 15.380 | 15.373 | (1.000) | 430674 | 4.00000 | |
| 43 3-Nitroaniline | | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | | 153 | 15.450 | 15.442 | (1.005) | 55286 | 0.47388 | 141.0 |
| 45 2,4-Dinitrophenol | | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | | 168 | 15.798 | 15.798 | (1.027) | 174748 | 1.02238 | 304.3 |
| 47 4-Nitrophenol | | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | | 166 | 16.571 | 16.563 | (1.077) | 74808 | 0.57121 | 170.0 |
| 51 4-Chlorophenyl-phenylether | | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | | 330 | 17.150 | 17.142 | (1.115) | 31764 | 1.78689 | 531.8 |
| 56 4-Bromophenyl-phenylether | | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | | 188 | 18.641 | 18.633 | (1.000) | 660353 | 4.00000 | |
| 60 Phenanthrene | | 178 | 18.695 | 18.687 | (1.003) | 505372 | 2.96790 | 883.3 |
| 61 Anthracene | | 178 | 18.796 | 18.780 | (1.008) | 108818 | 0.61175 | 182.1 |

| Compounds | QUANT SIG | | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|------------------------|--------|----------------|----------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.160 | 19.144 | (1.028) | 37142 | 0.22567 | 67.16 (M) | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.132 | 21.101 | (1.134) | 562298 | 2.90840 | 865.6 | |
| 65 Pyrene | 202 | 21.543 | 21.519 | (0.908) | 564406 | 2.64654 | 787.7 | |
| \$ 66 Terphenyl-d14 | 244 | 21.852 | 21.844 | (0.921) | 156299 | 1.16994 | 348.2 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo (a) anthracene | 228 | 23.695 | 23.679 | (0.999) | 156626 | 0.79442 | 236.4 | |
| * 69 Chrysene-d12 | 240 | 23.718 | 23.710 | (1.000) | 700903 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.764 | 23.749 | (1.002) | 395101 | 2.27803 | 678.0 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.818 | (0.961) | 63302 | 0.41732 | 124.2 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.802 | 24.794 | (1.000) | 1104559 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo (b) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo (k) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo (a) pyrene | 252 | 26.017 | 26.002 | (0.996) | 222144 | 1.25720 | 374.2 | |
| * 77 Perylene-d12 | 264 | 26.118 | 26.102 | (1.000) | 683374 | 4.00000 | | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 28.381 | 28.342 | (1.087) | 194371 | 0.95097 | 283.0 | |
| 79 Dibenzo (a, h) anthracene | 278 | 28.396 | 28.365 | (1.087) | 47009 | 0.29197 | 86.90 | |
| 80 Benzo (g, h, i) perylene | 276 | 29.041 | 29.002 | (1.112) | 211555 | 1.20703 | 359.2 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methyl-naphthalene | 142 | 13.283 | 13.275 | (1.155) | 65451 | 0.46416 | 138.1 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.460 | 25.483 | (0.975) | 618322 | 3.26089 | 970.5 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.146 | 22.131 | (0.934) | 42161 | 0.42455 | 126.4 | |

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: uu52e.d
 Lab Smp Id: UU52E
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8897

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS004-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 197248 | 4.08 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 788940 | 7.94 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 430674 | 2.37 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 660353 | 3.35 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 700903 | 8.66 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1104559 | 8.70 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 683374 | 5.13 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.50 | 0.00 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.64 | 0.04 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.72 | 0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.80 | 0.03 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.12 | 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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52E | Client Smp ID: MS004-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8897 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 744.0 | 468.1 | 62.92 | 30-160 |
| \$ 2 Phenol-d5 | 744.0 | 474.8 | 63.81 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 744.0 | 487.8 | 65.56 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 496.0 | 289.4 | 58.34 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 496.0 | 307.1 | 61.92 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 496.0 | 341.3 | 68.81 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 744.0 | 531.8 | 71.48 | 30-160 |
| \$ 66 Terphenyl-d14 | 496.0 | 348.2 | 70.20 | 30-160 |

Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Sample Info: UU52E,3

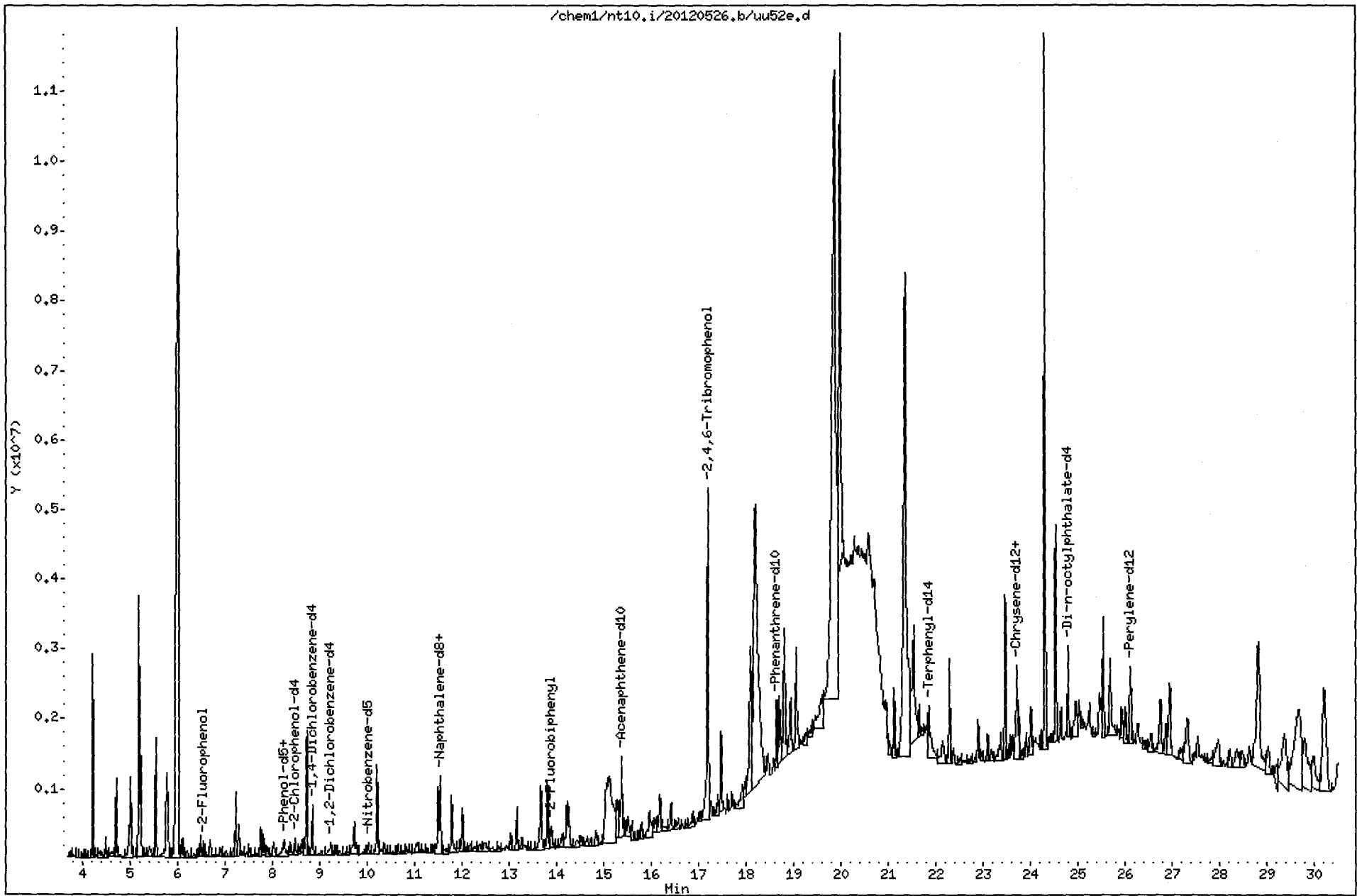
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0.25



UU52:00830

Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

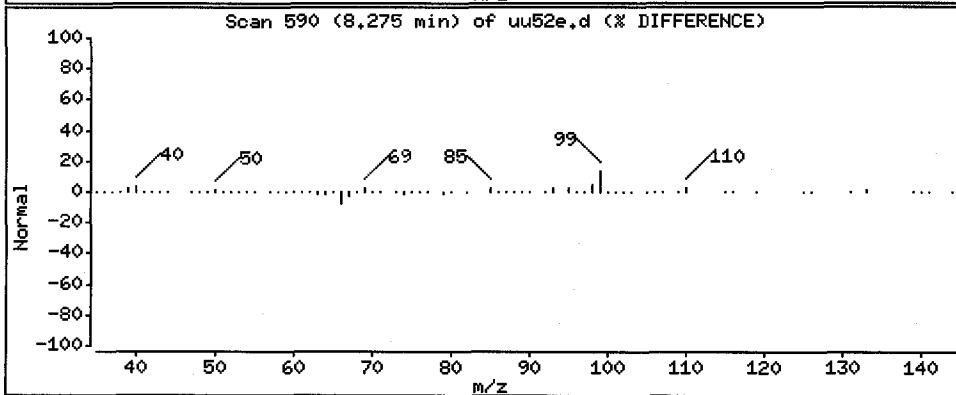
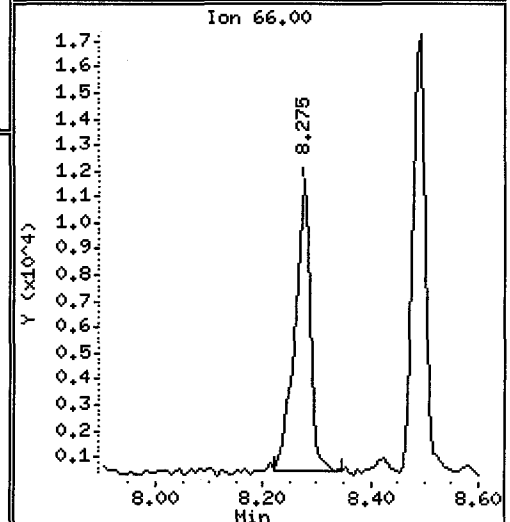
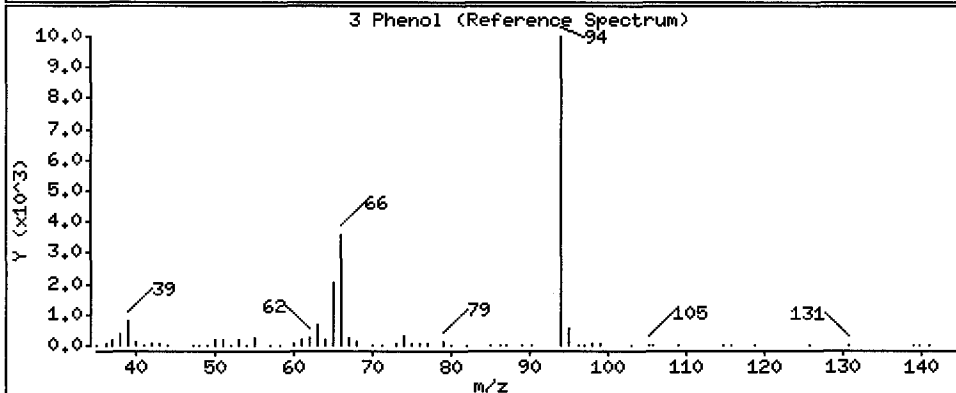
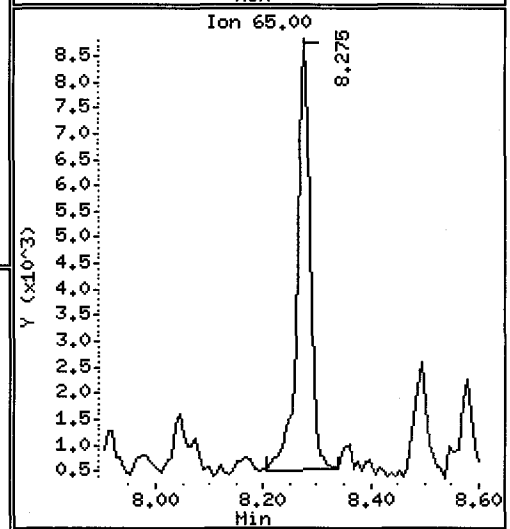
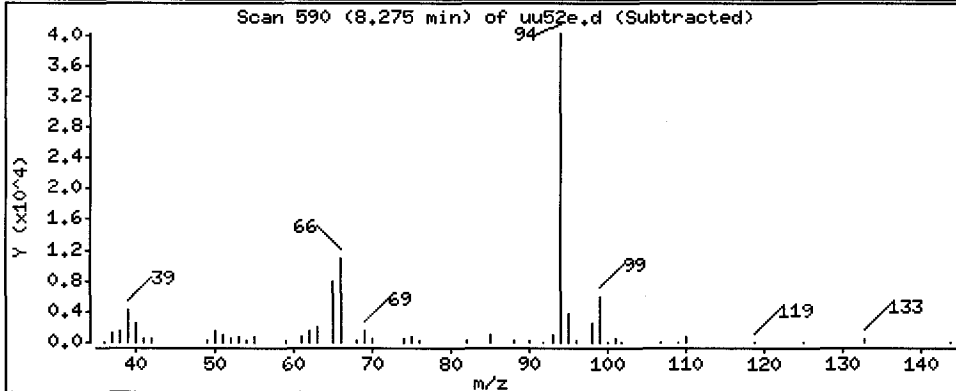
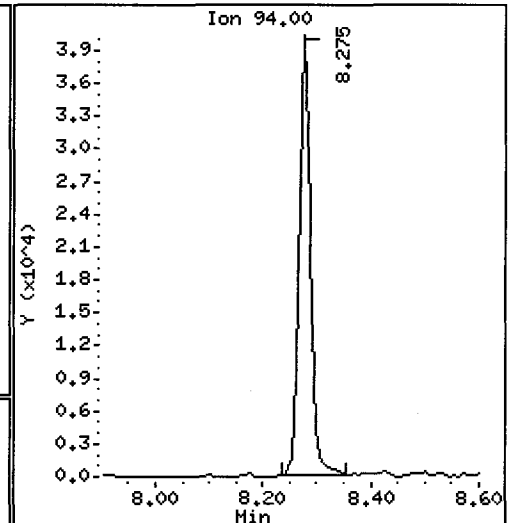
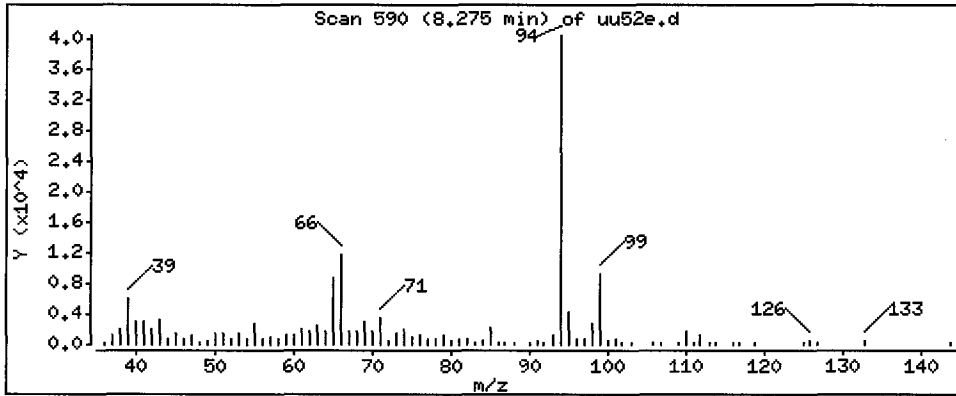
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 196.2 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

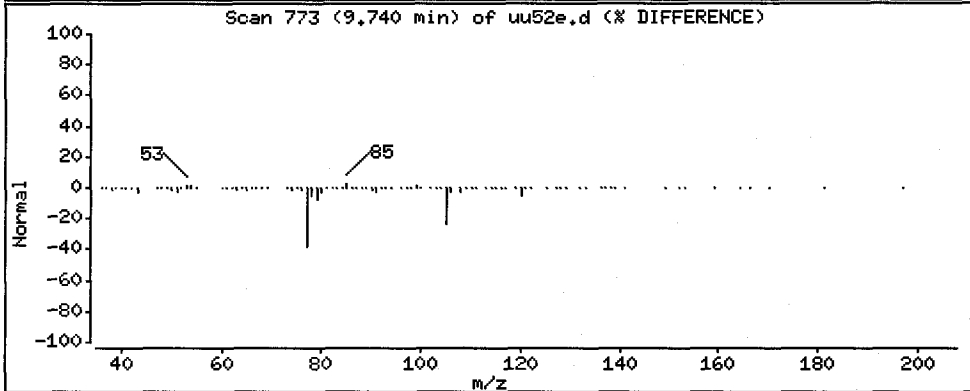
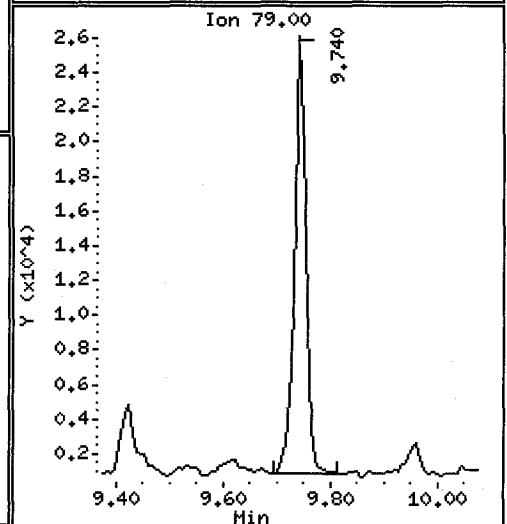
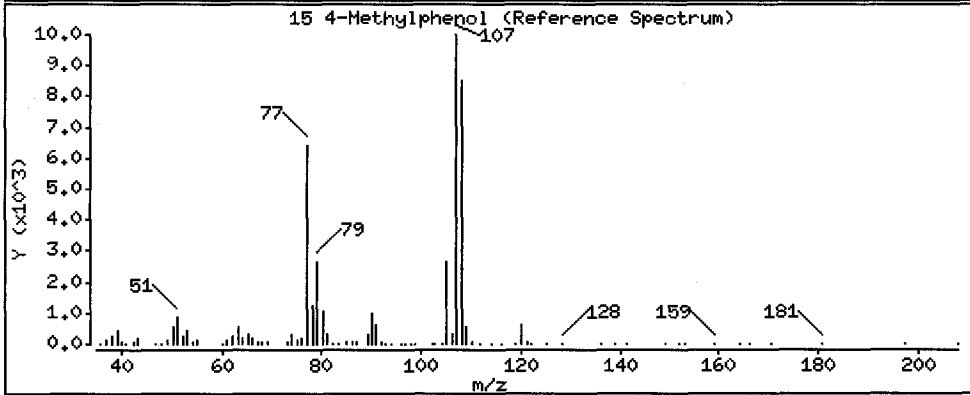
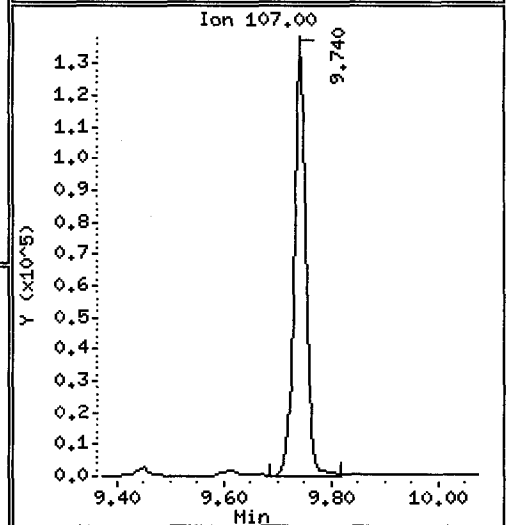
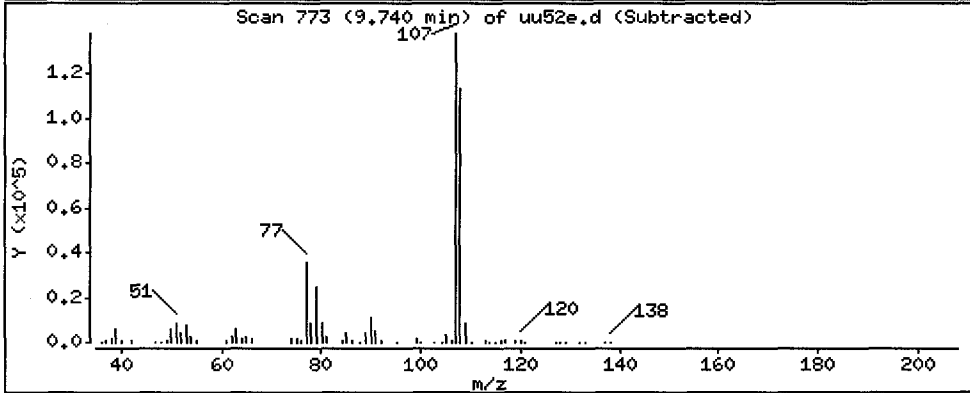
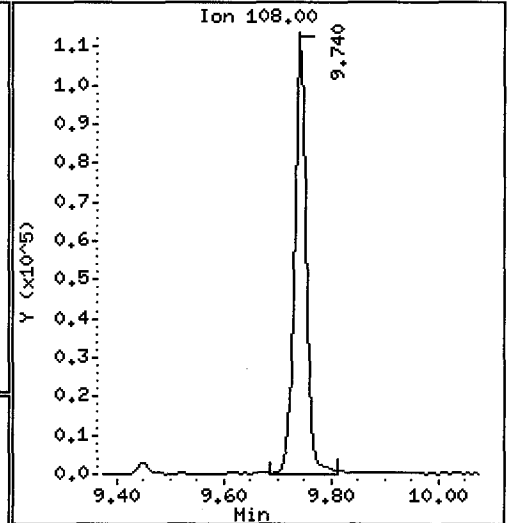
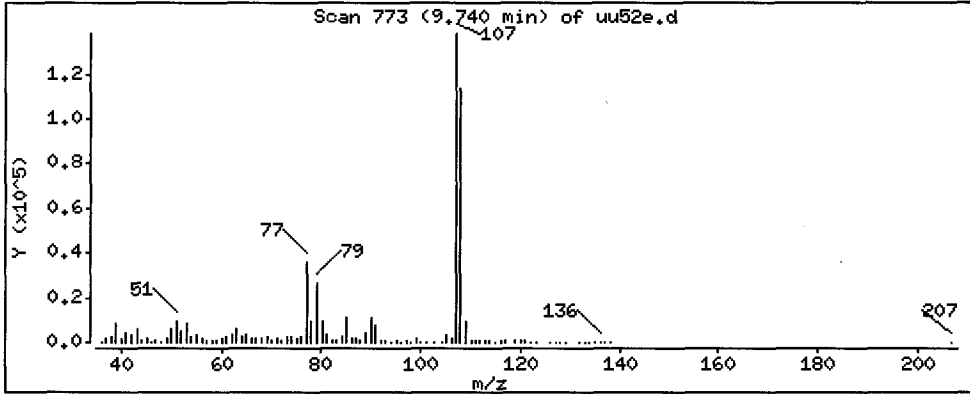
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 686.9 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

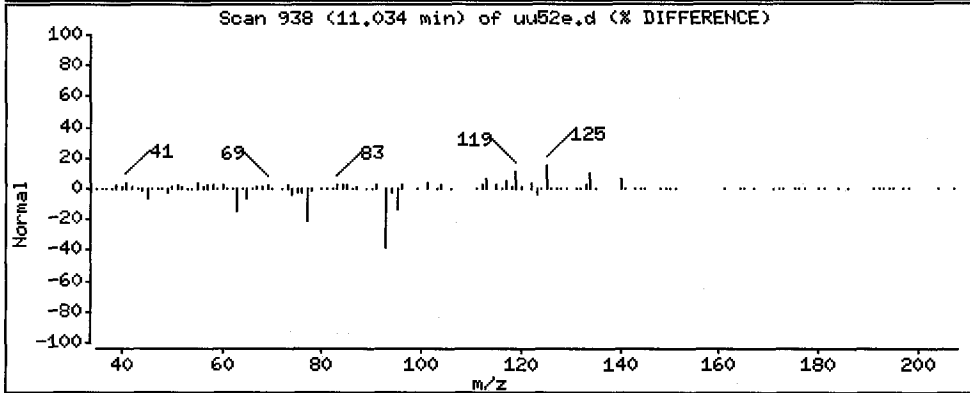
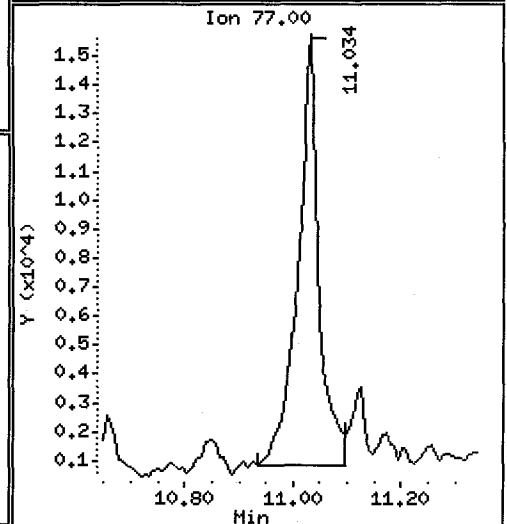
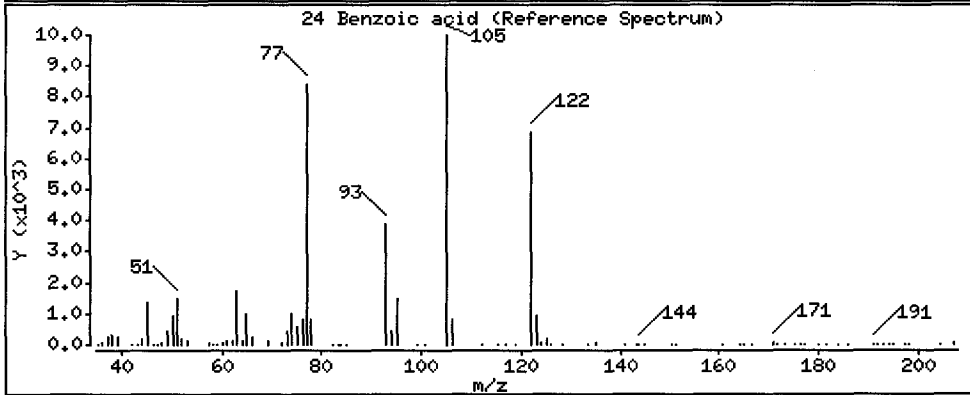
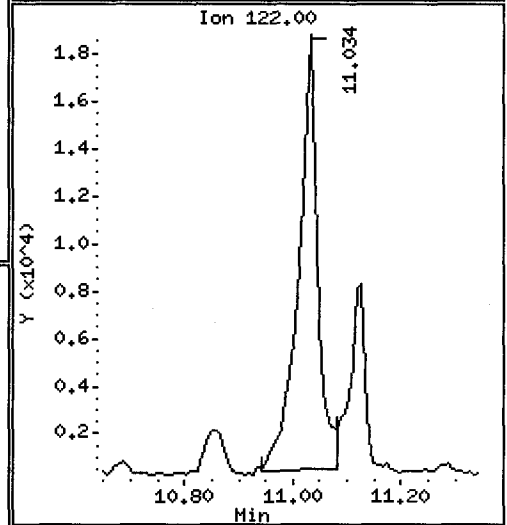
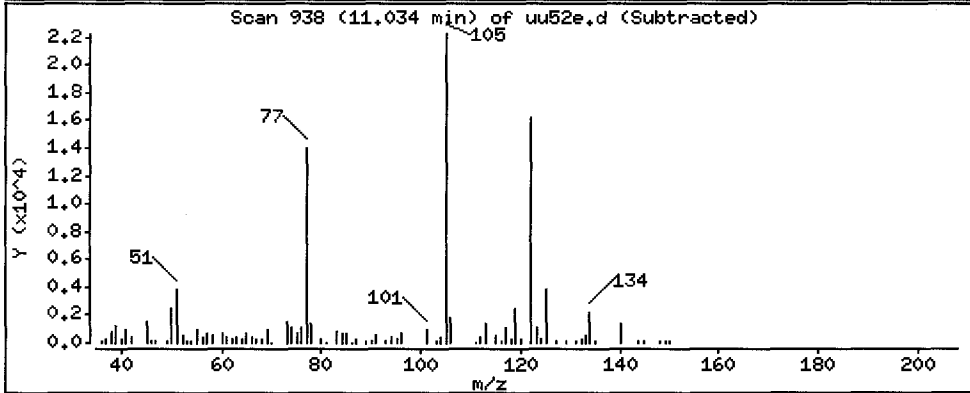
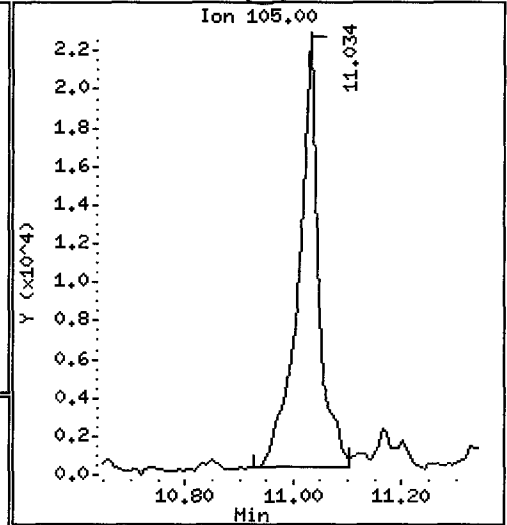
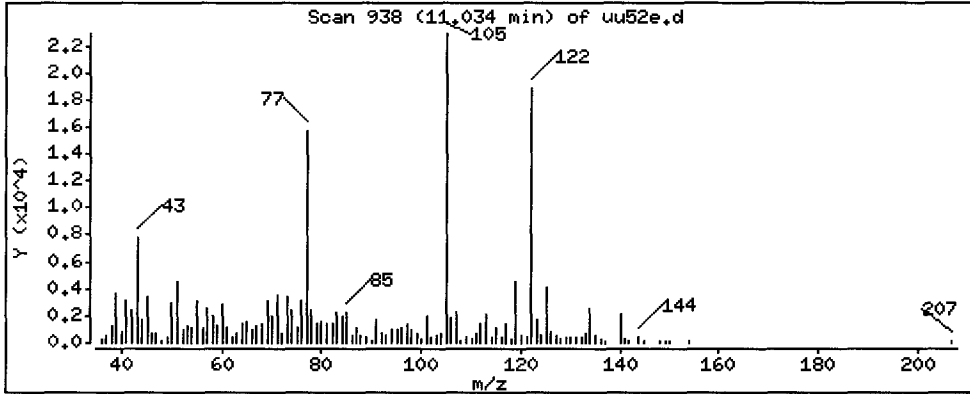
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 388.0 ug/kg

Handwritten signature



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

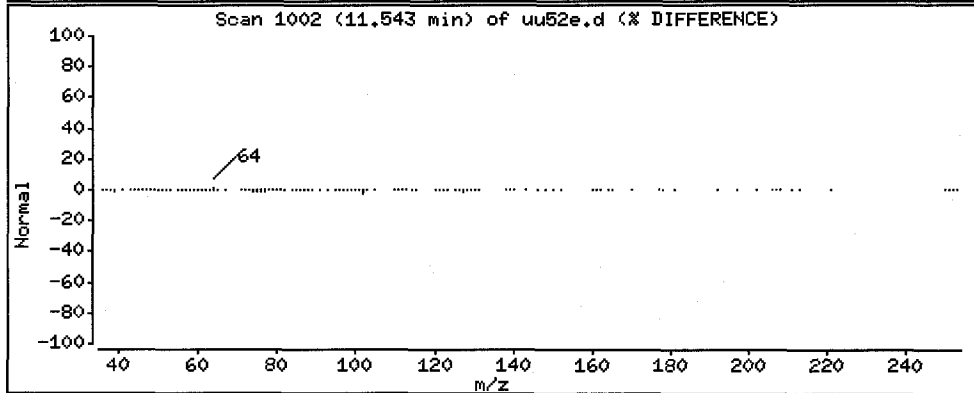
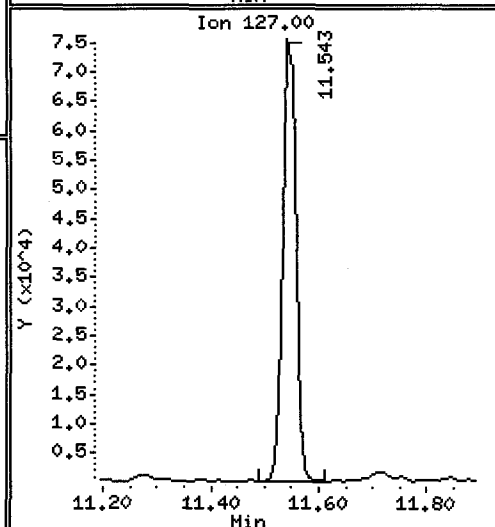
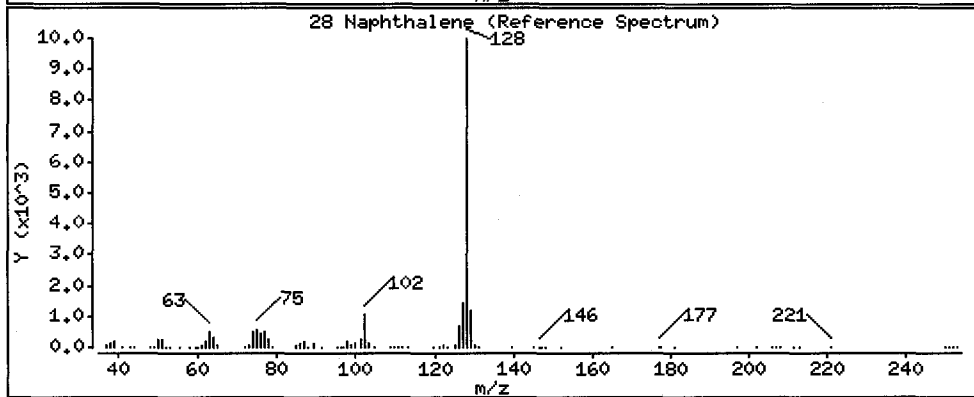
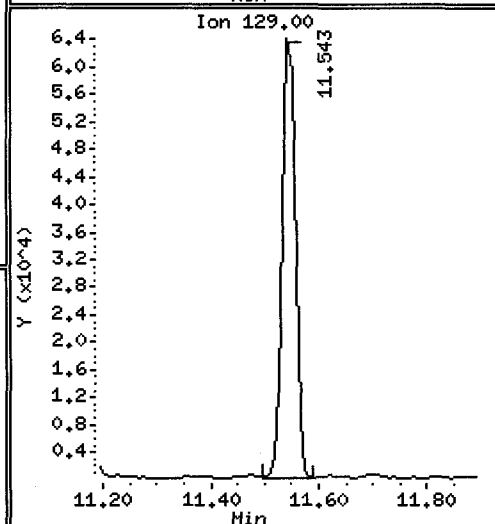
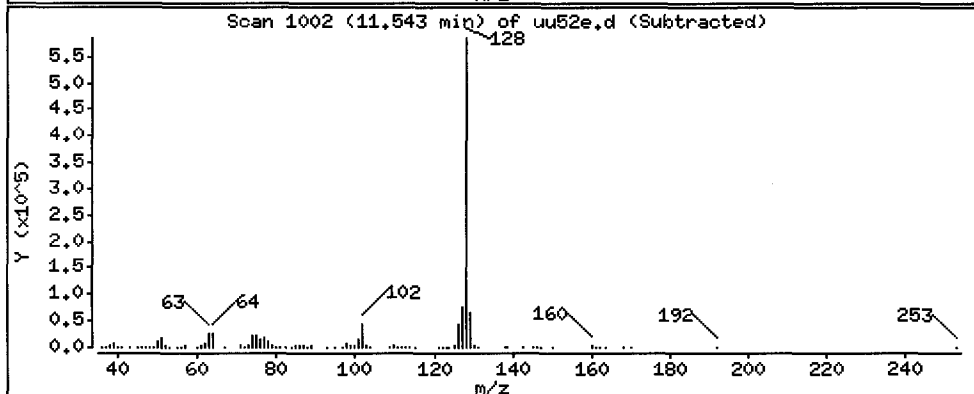
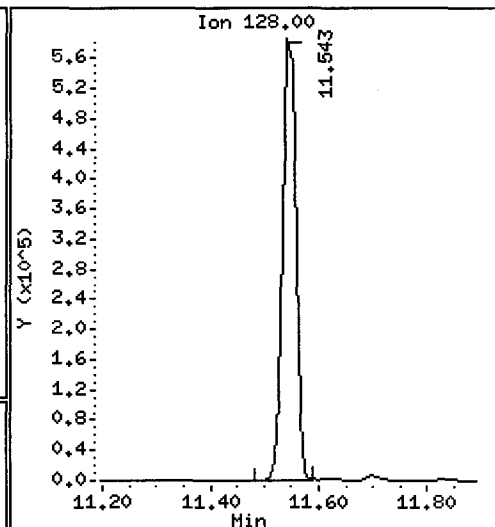
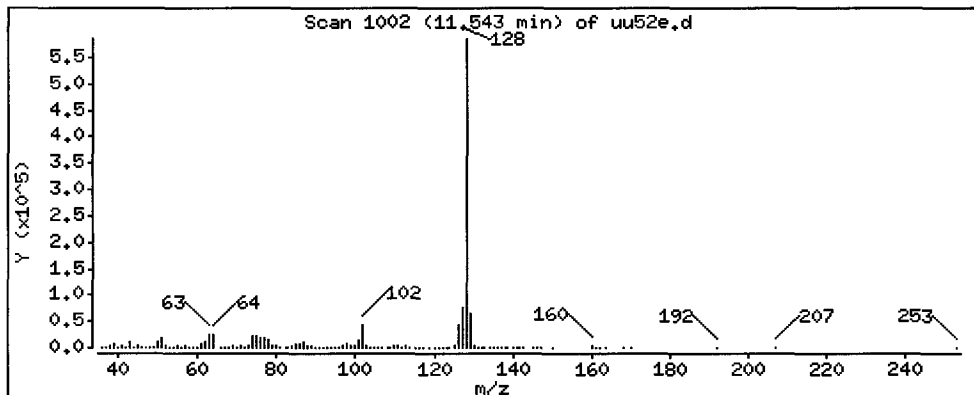
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 1389 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

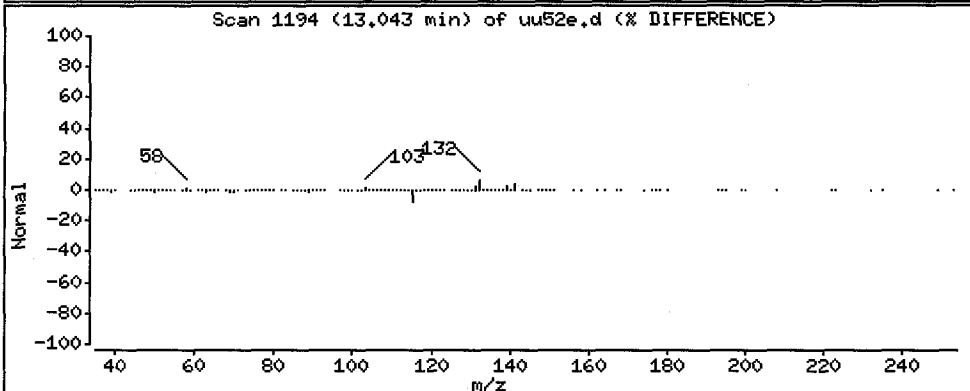
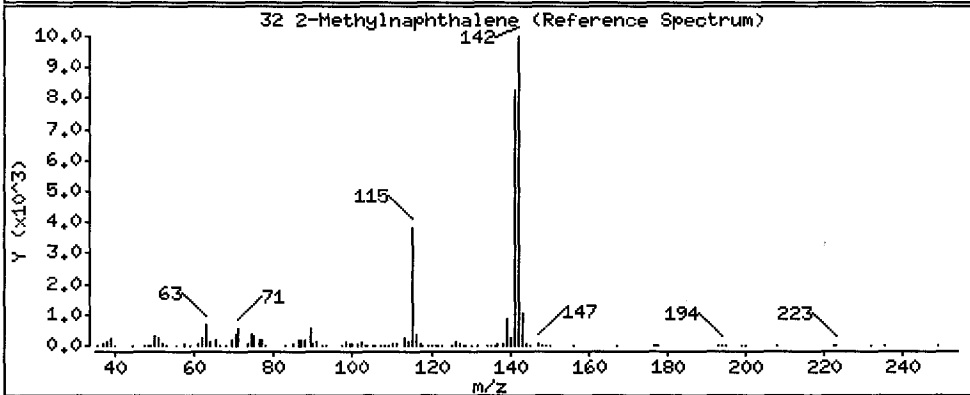
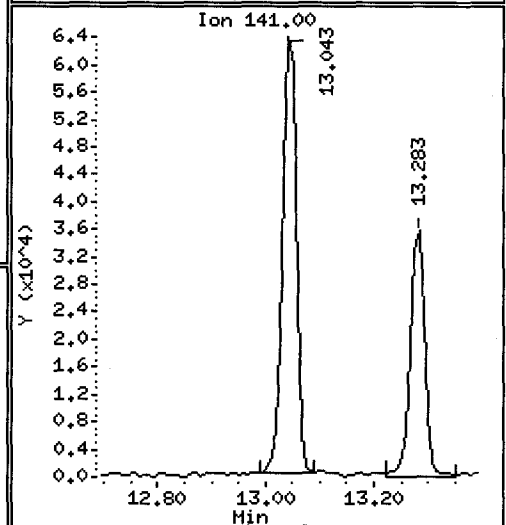
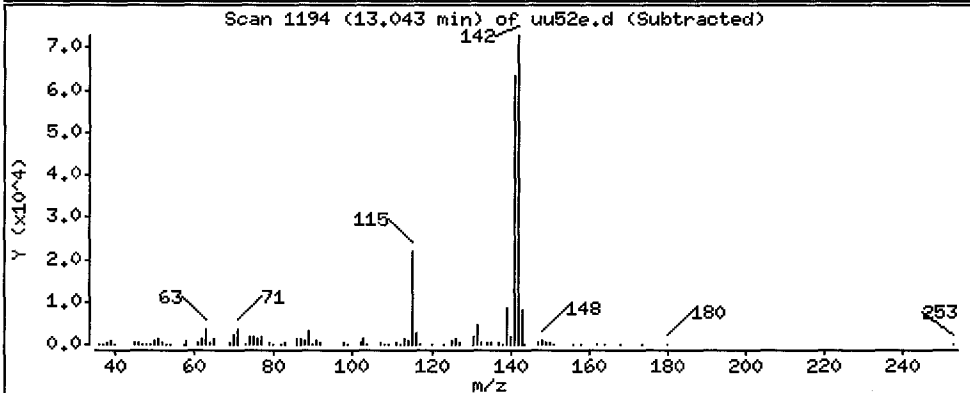
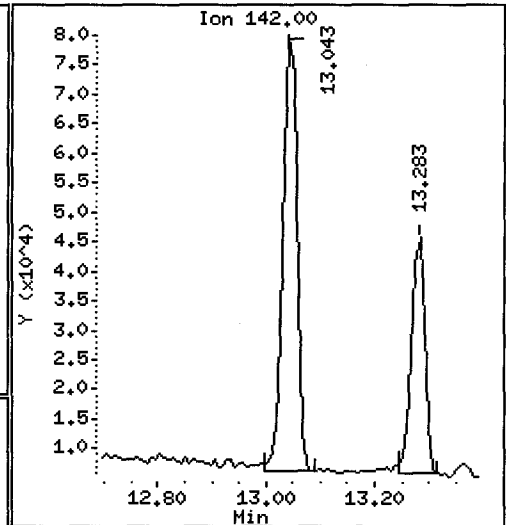
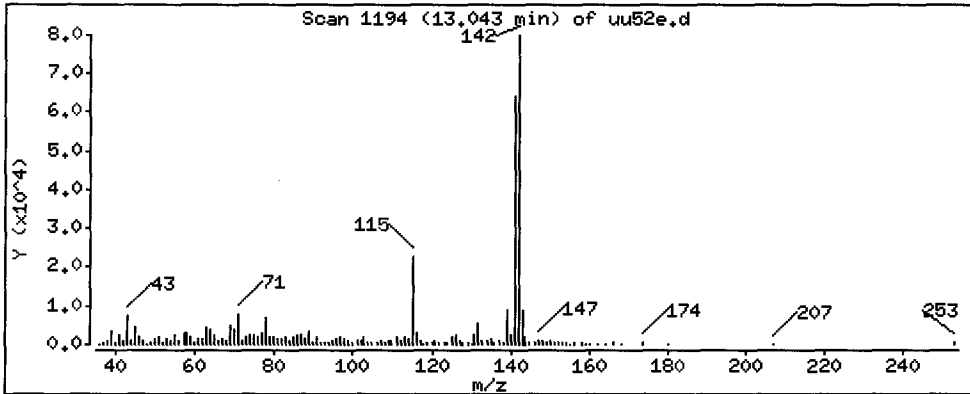
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 269.0 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

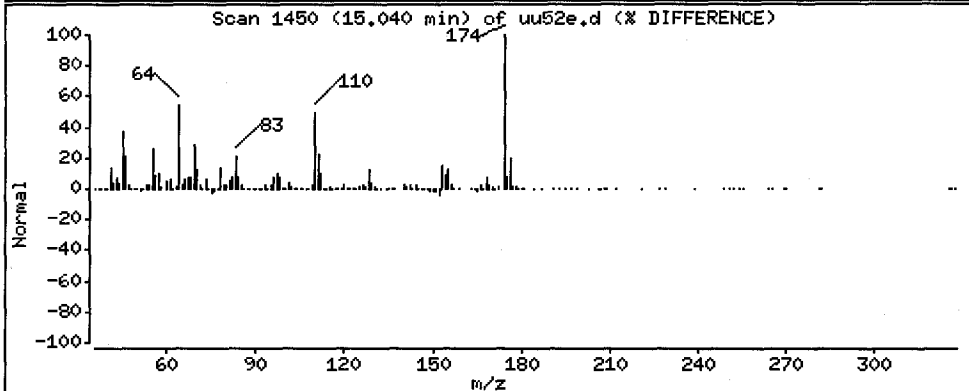
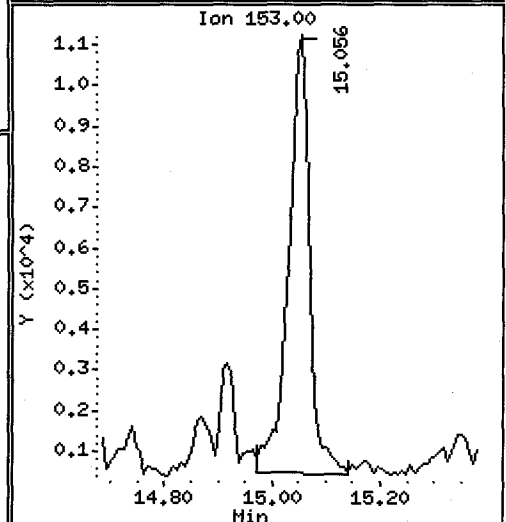
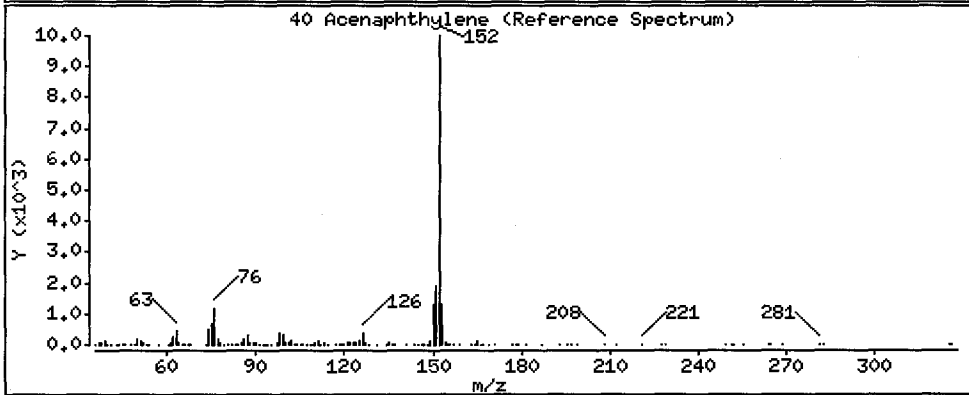
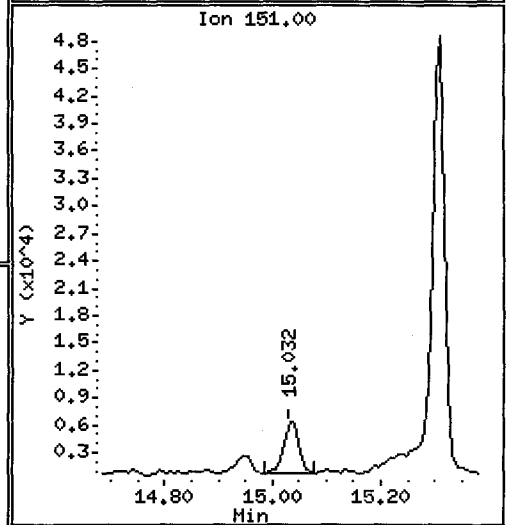
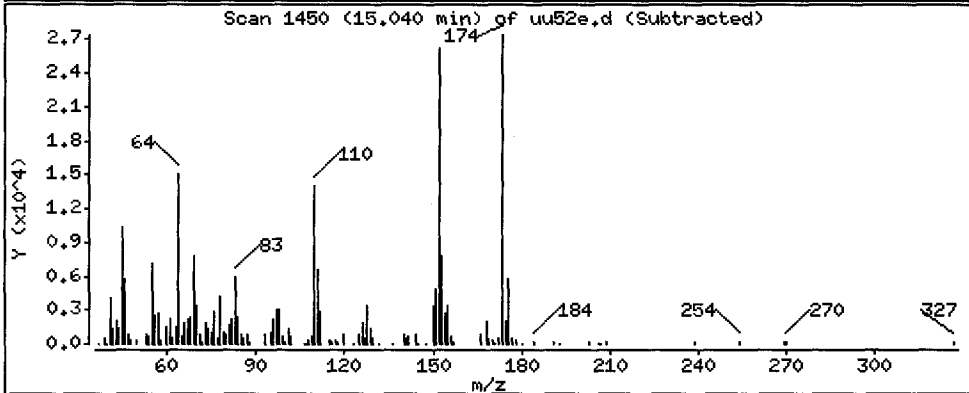
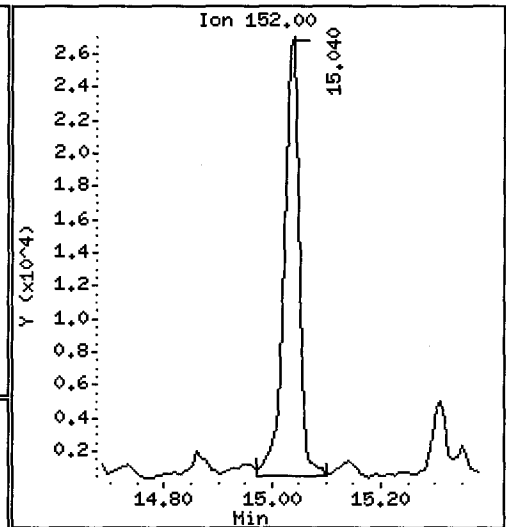
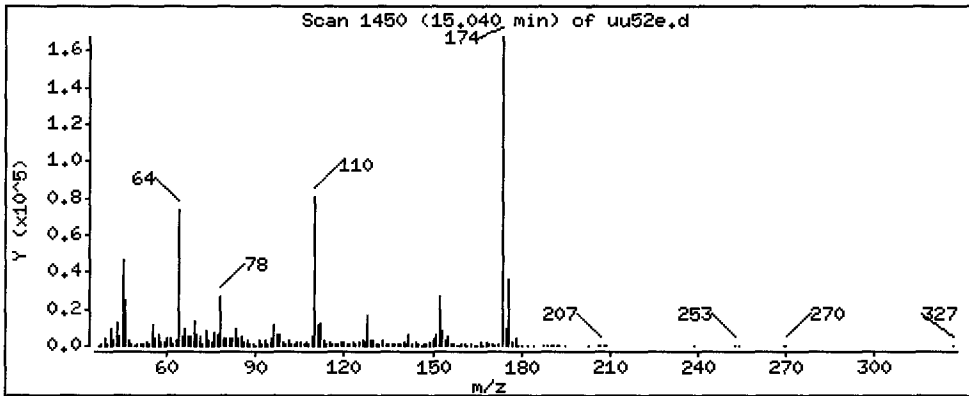
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 76.90 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

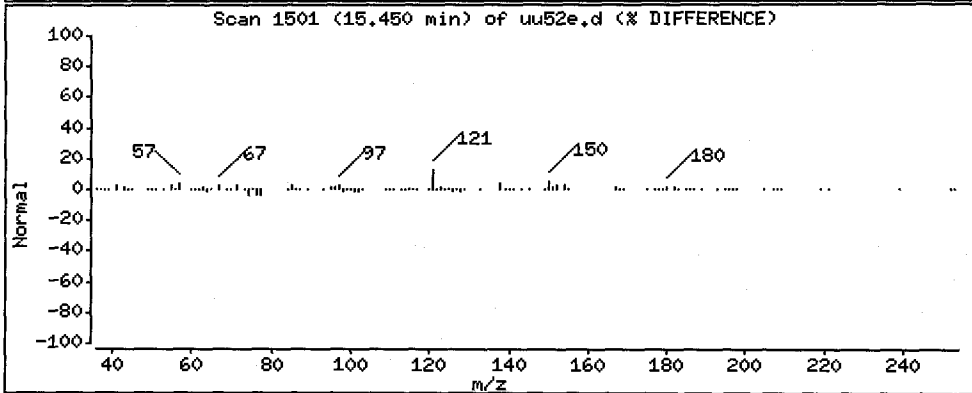
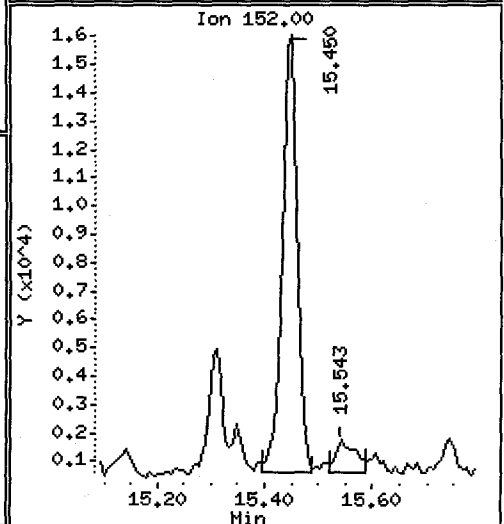
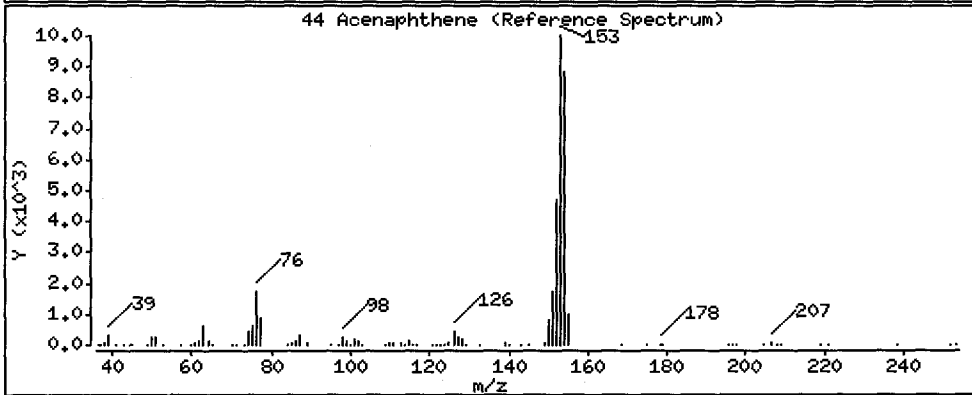
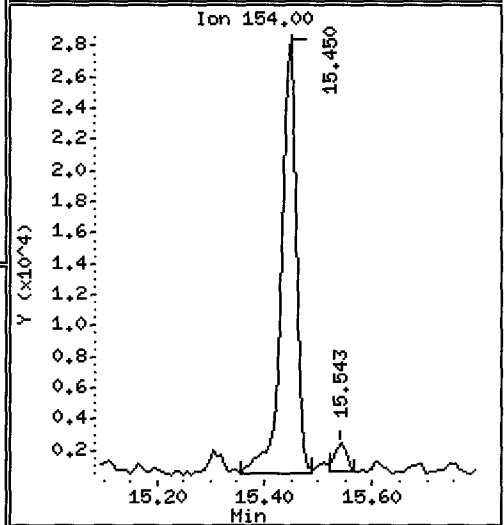
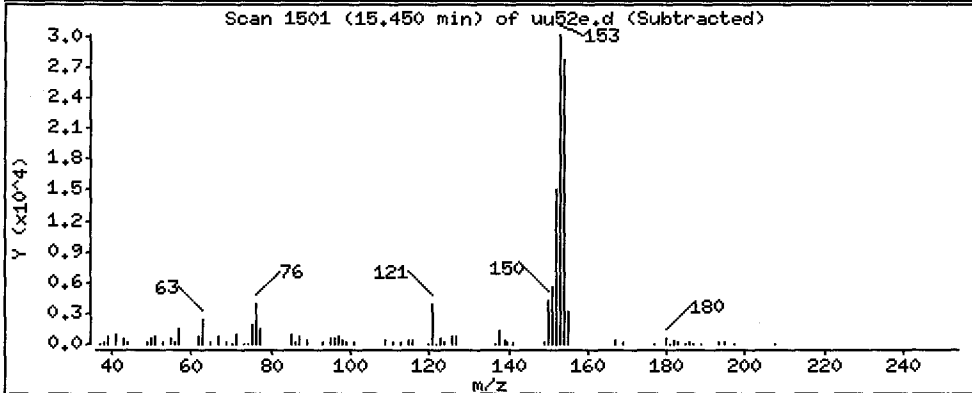
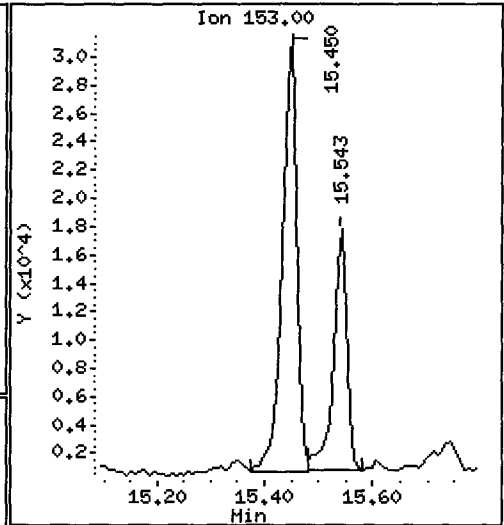
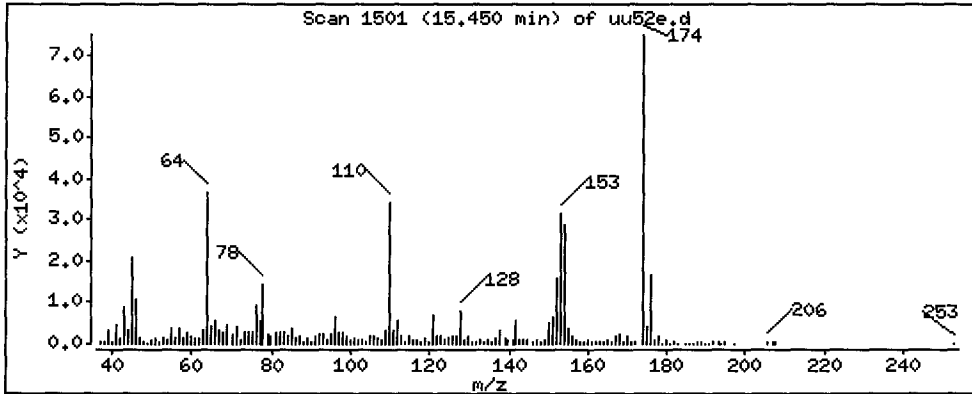
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 141.0 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

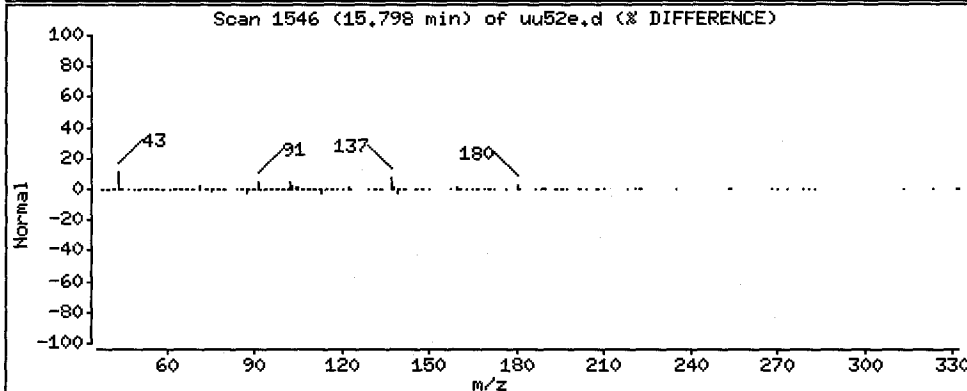
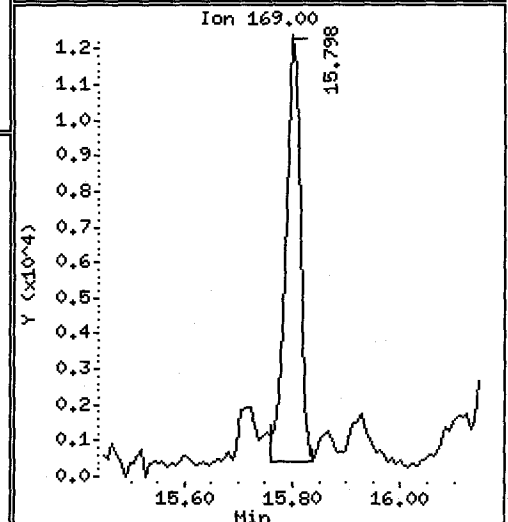
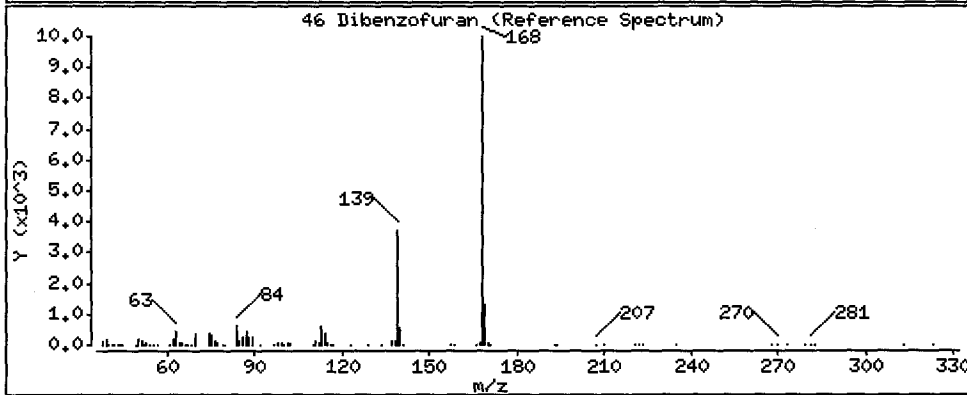
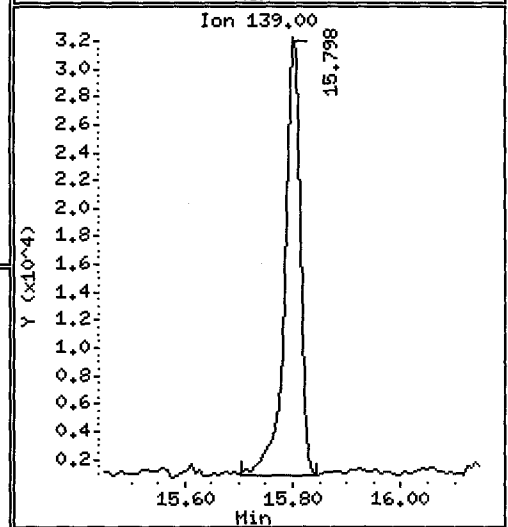
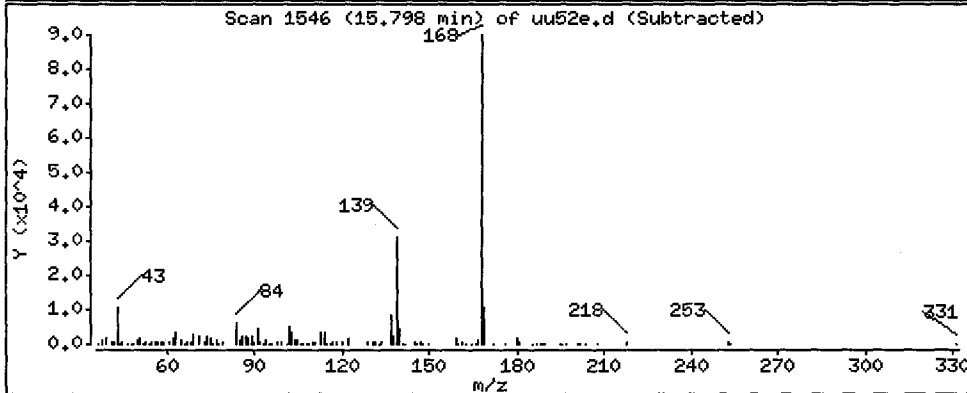
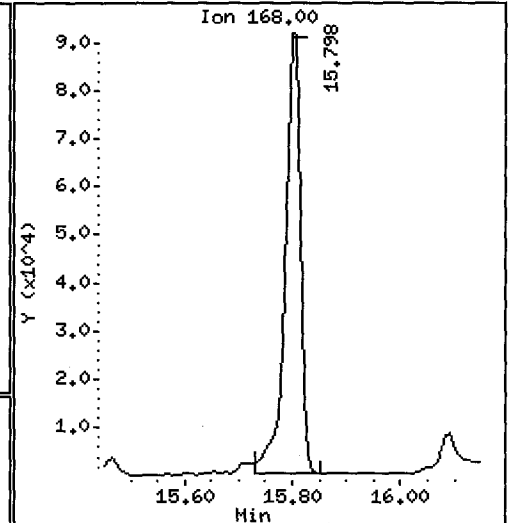
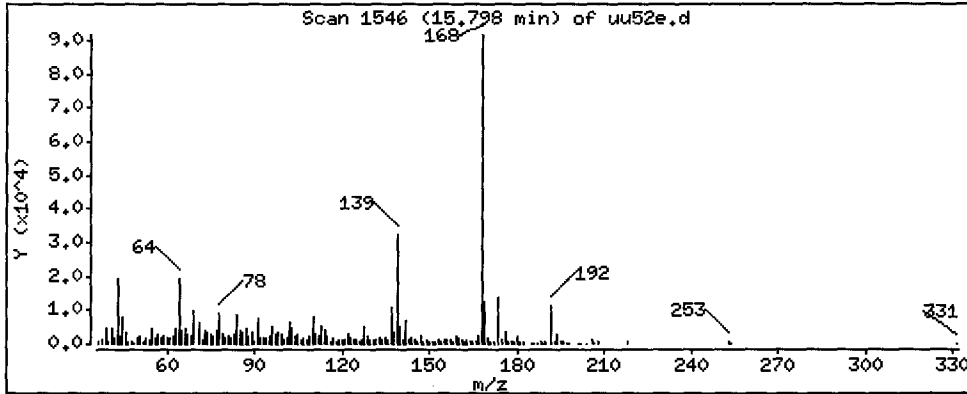
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 304.3 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

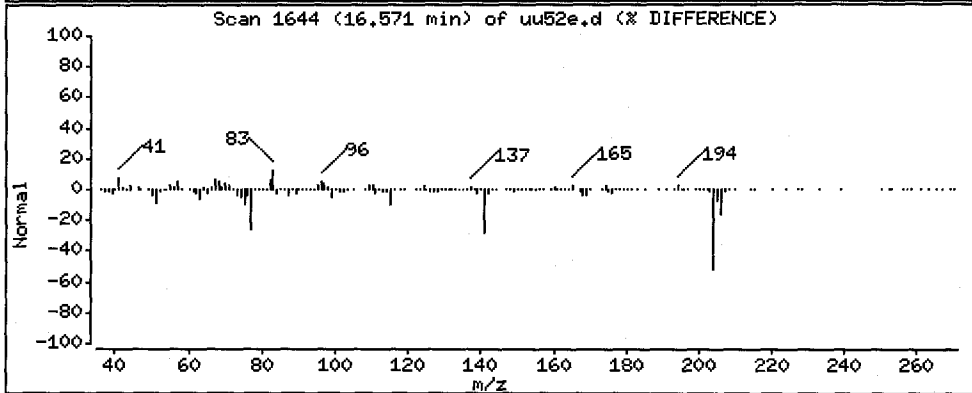
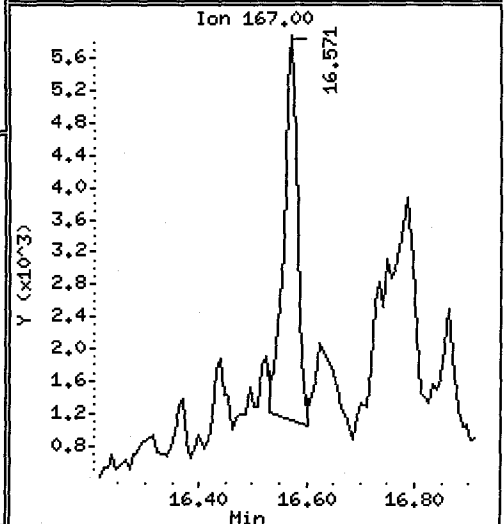
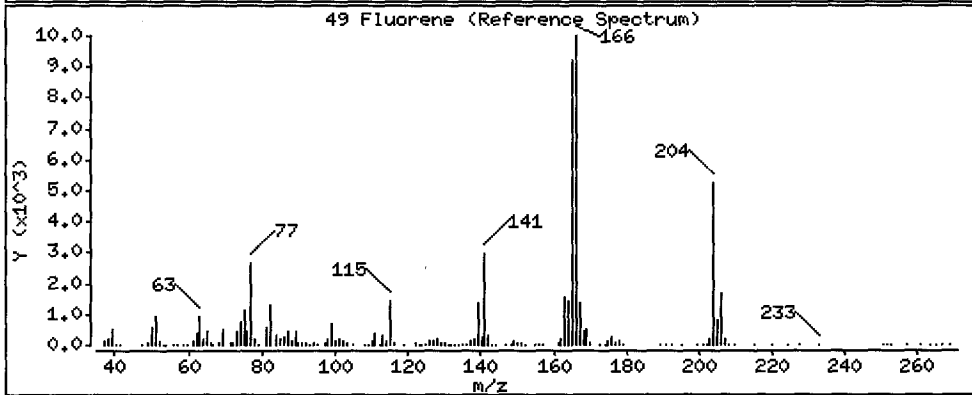
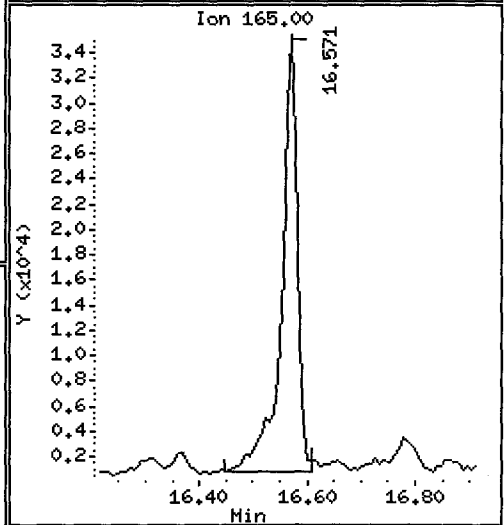
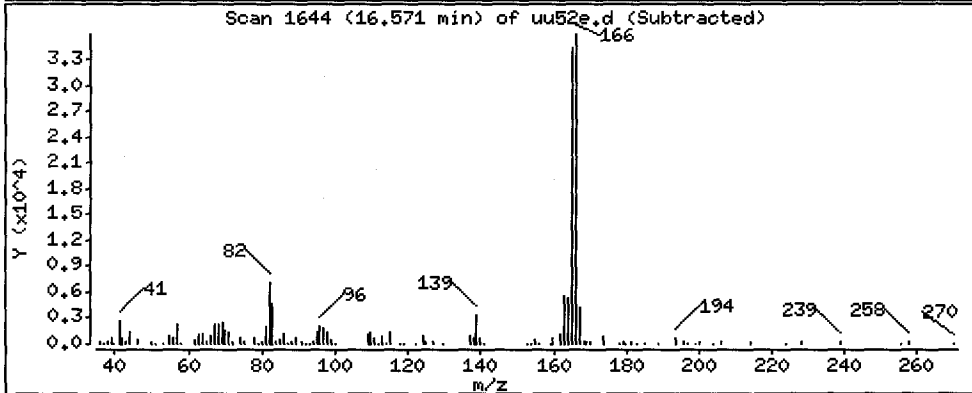
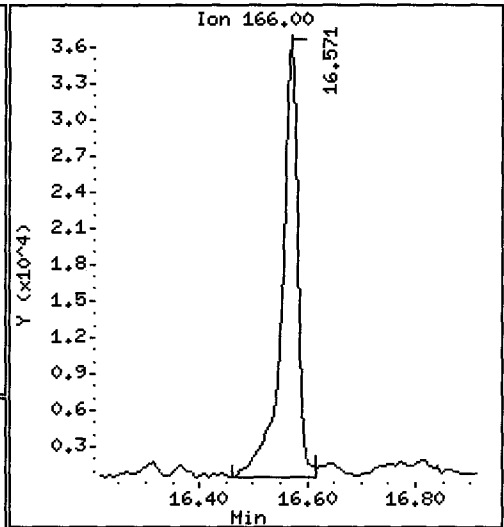
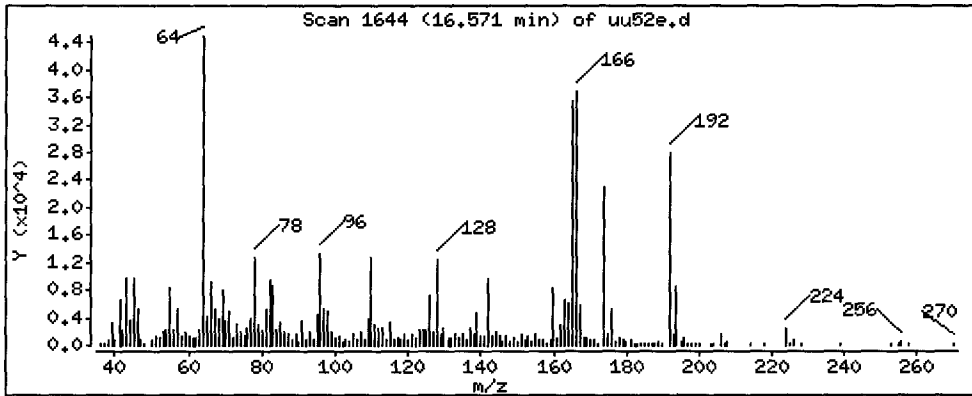
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 170.0 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

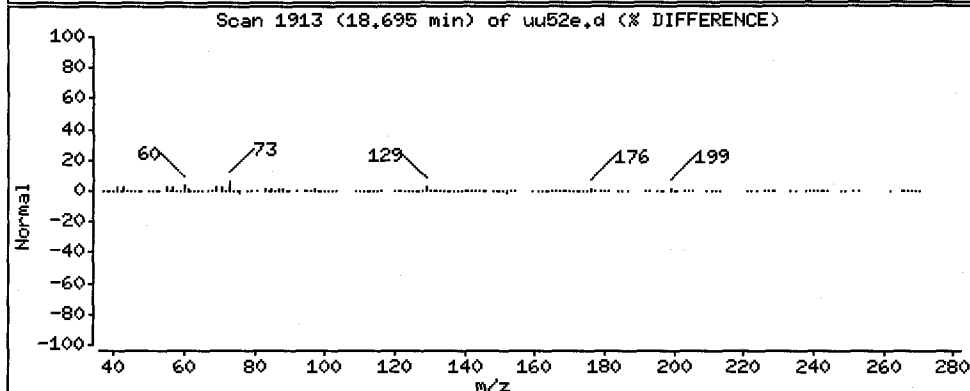
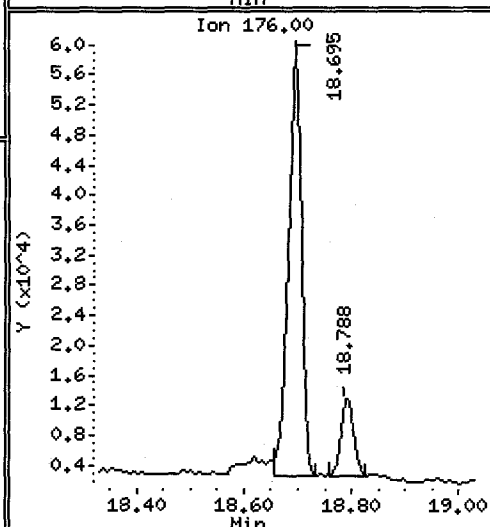
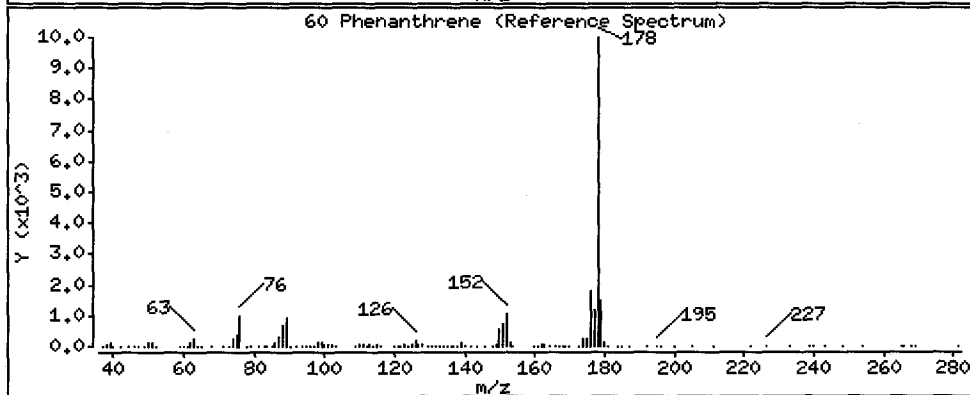
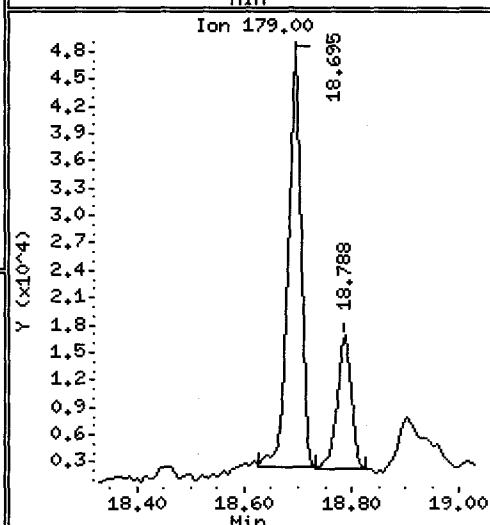
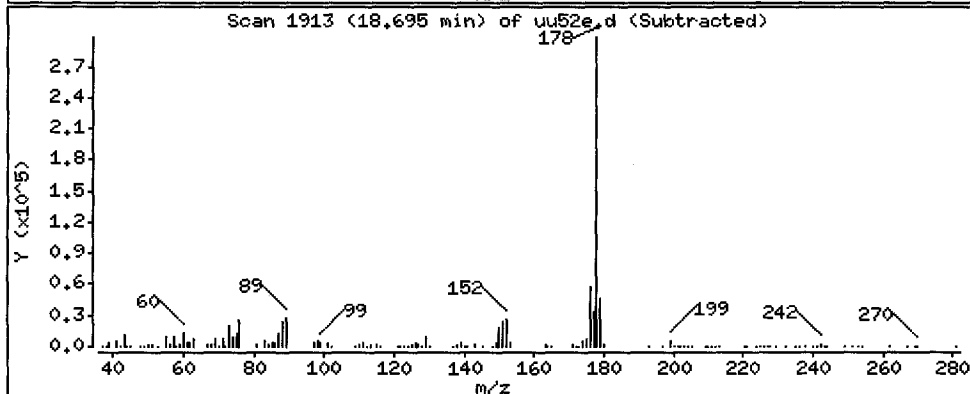
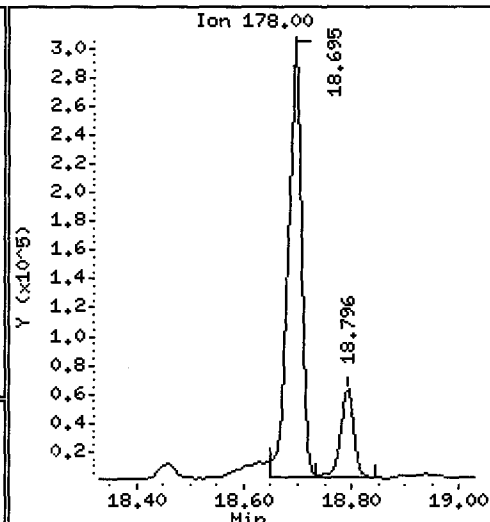
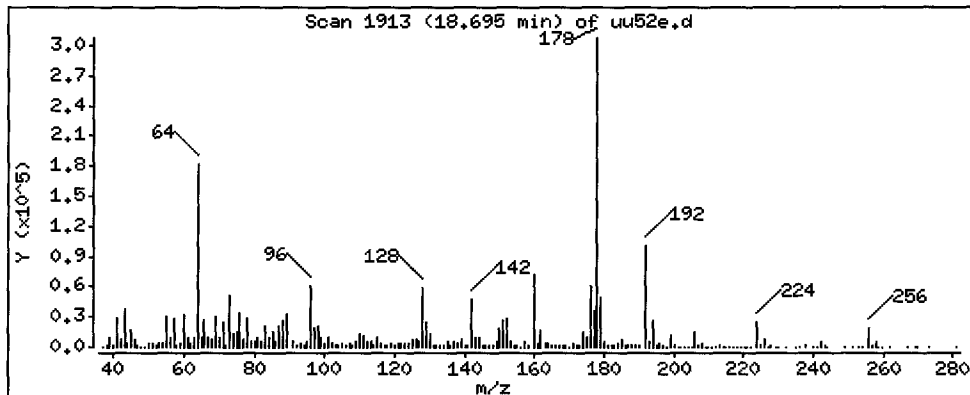
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 893.3 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

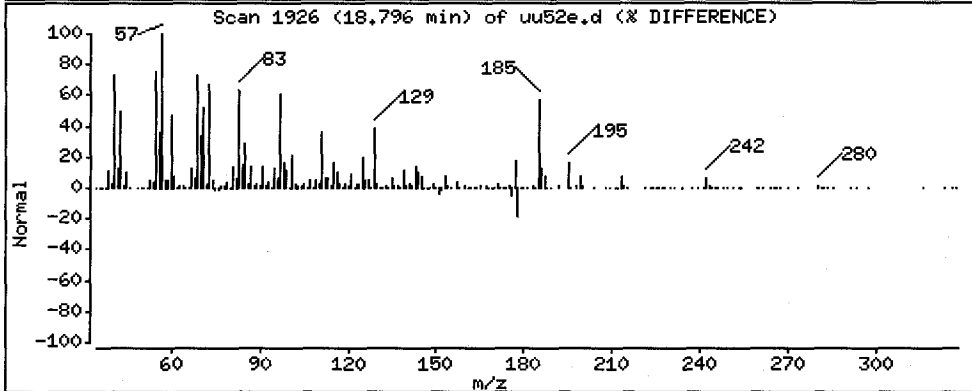
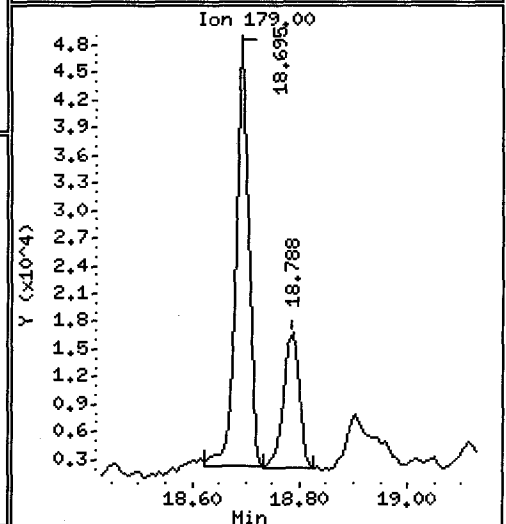
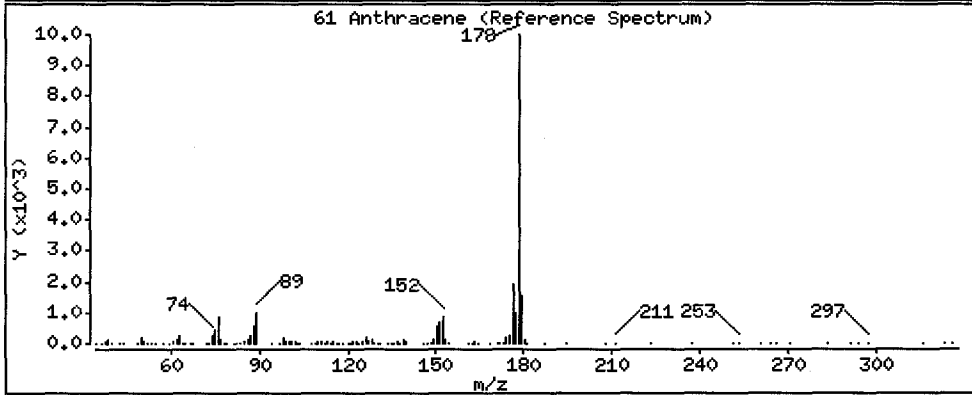
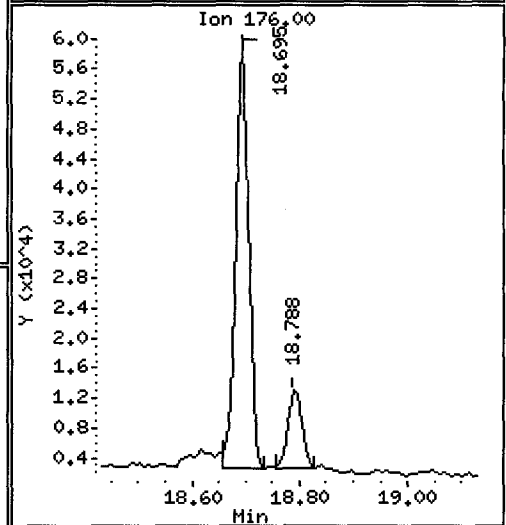
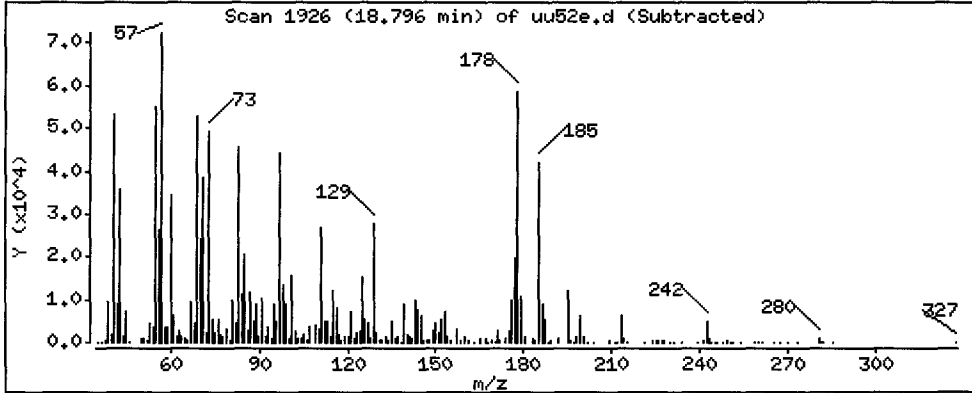
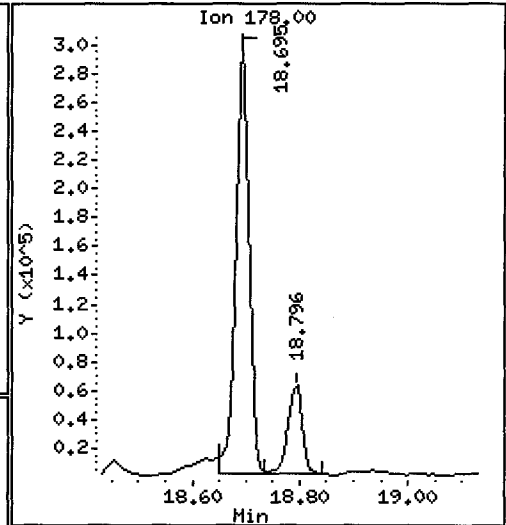
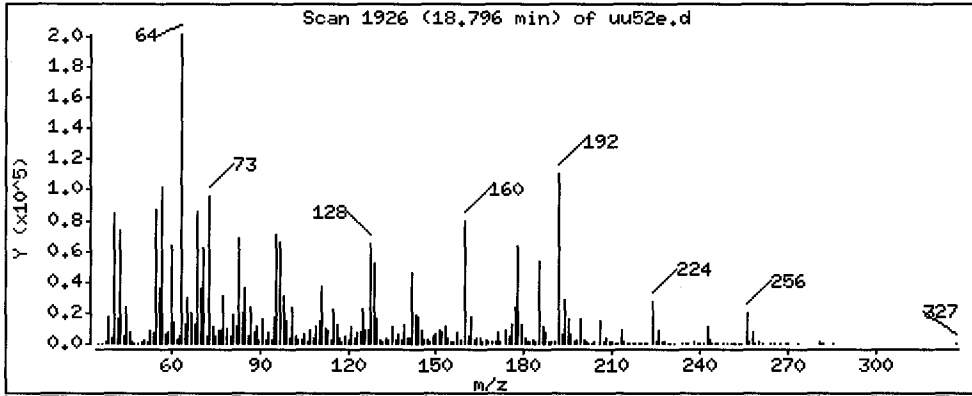
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 182.1 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

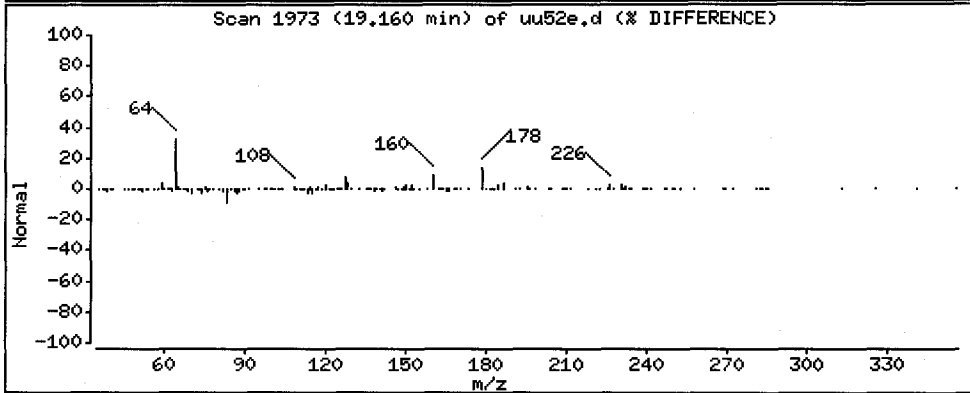
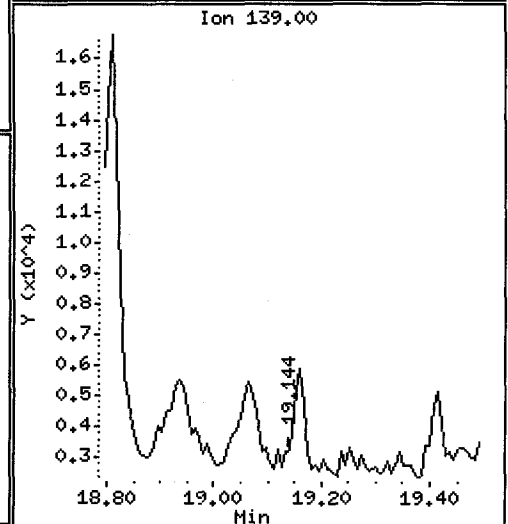
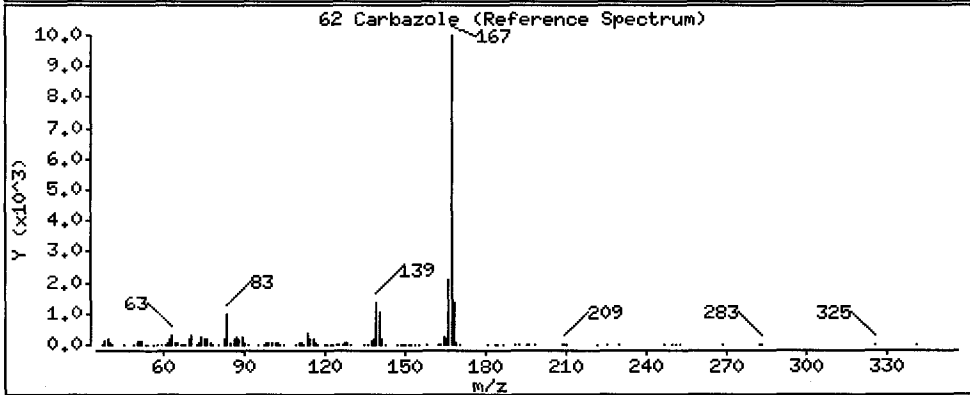
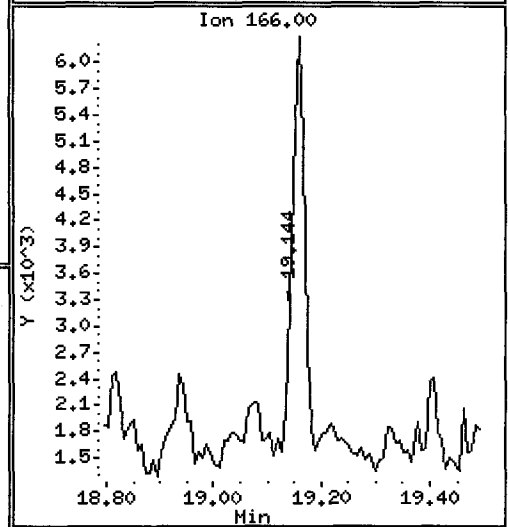
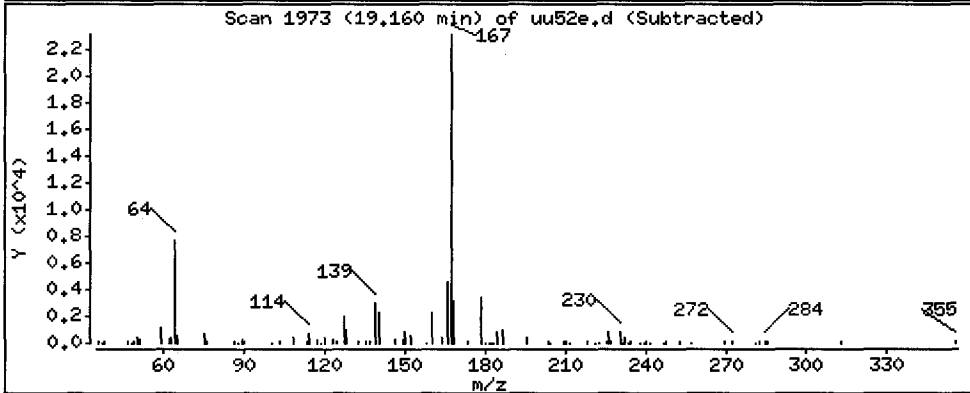
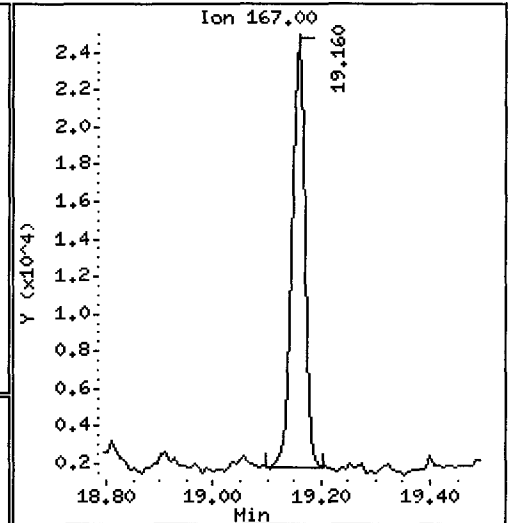
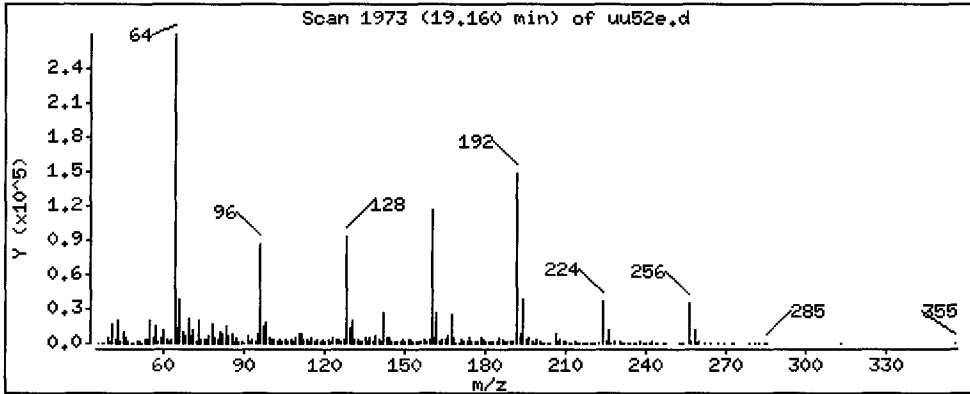
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 67.16 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

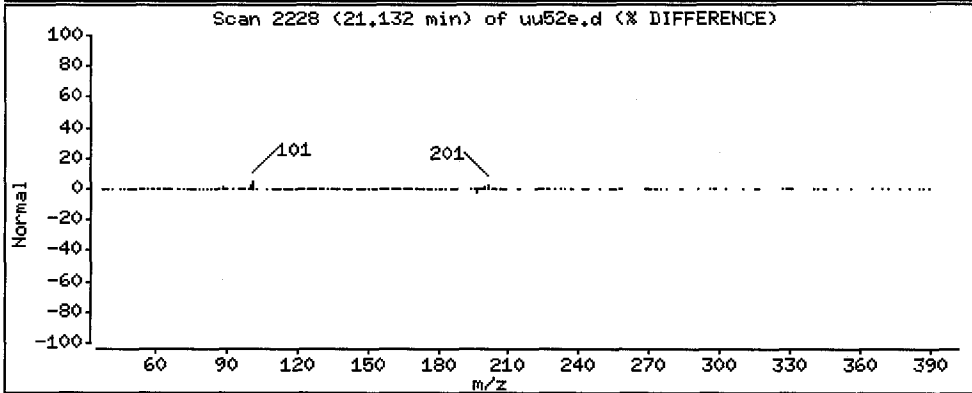
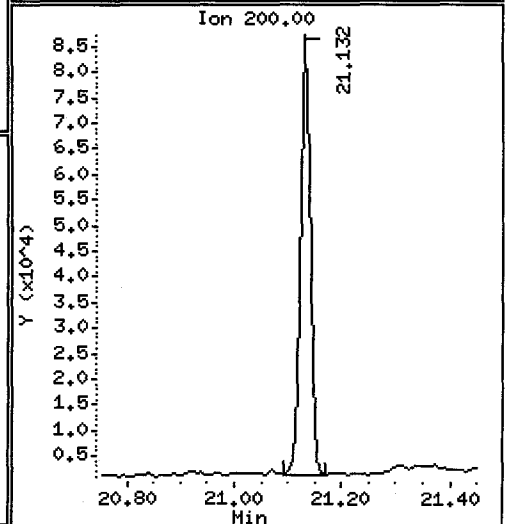
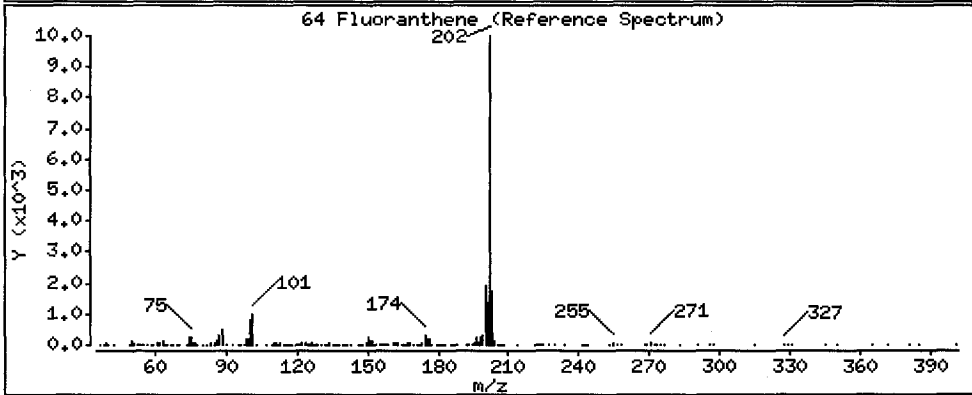
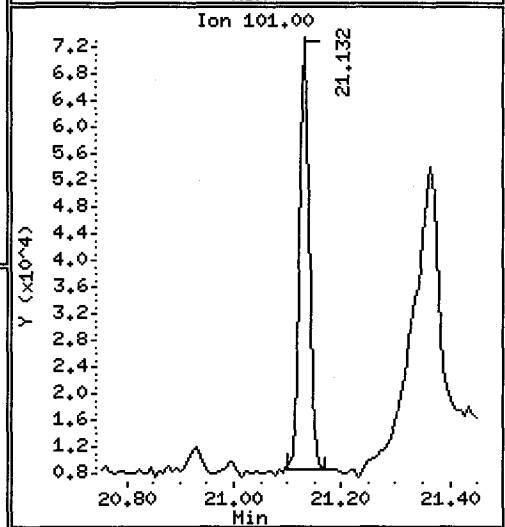
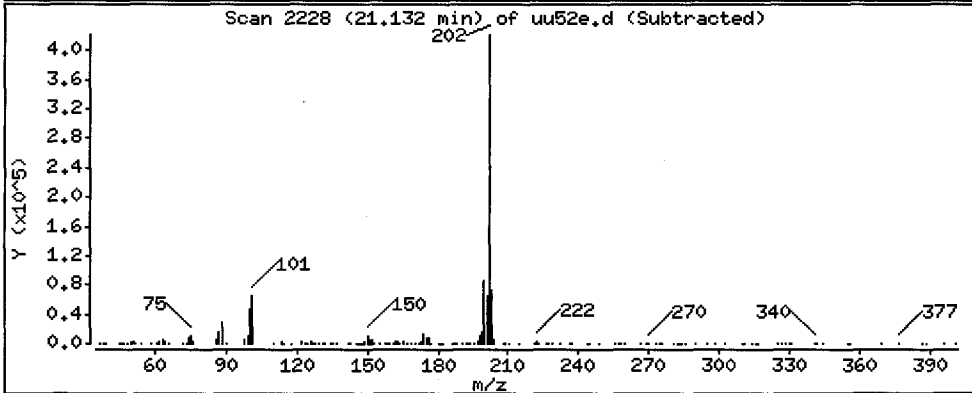
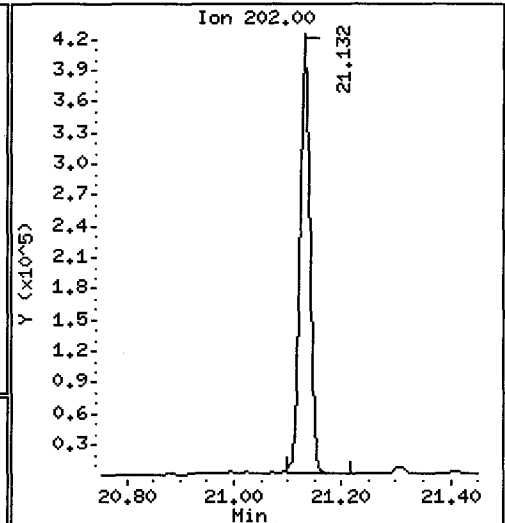
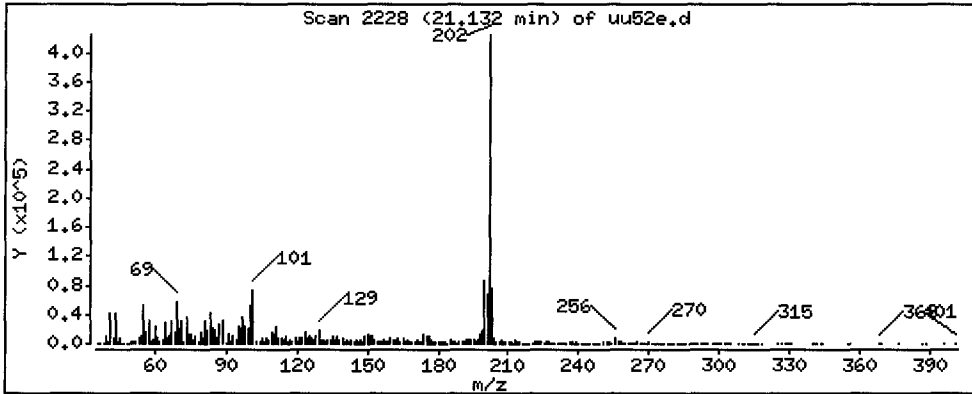
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 865.6 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

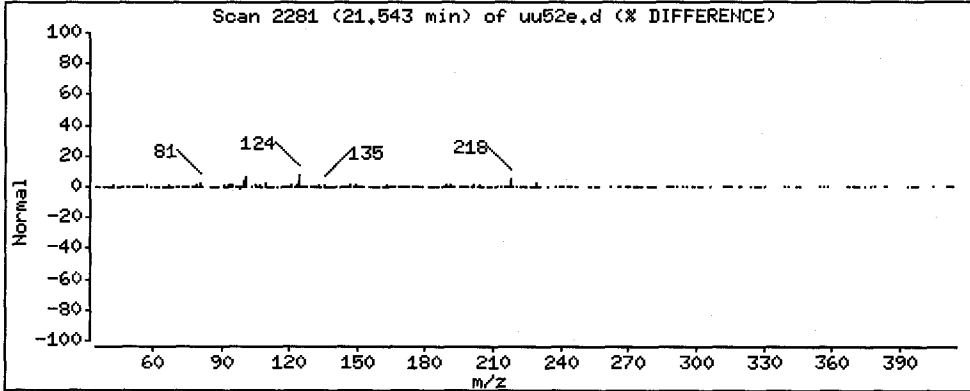
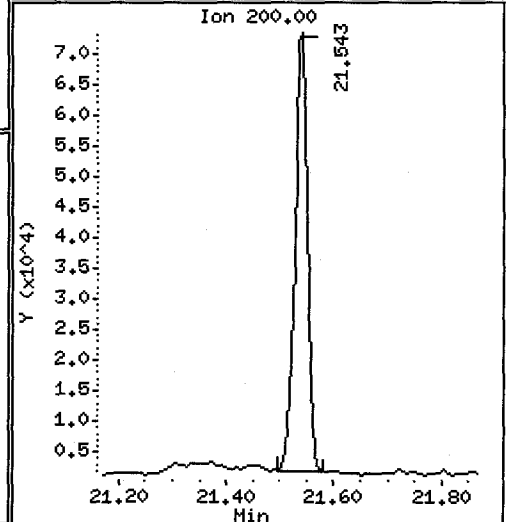
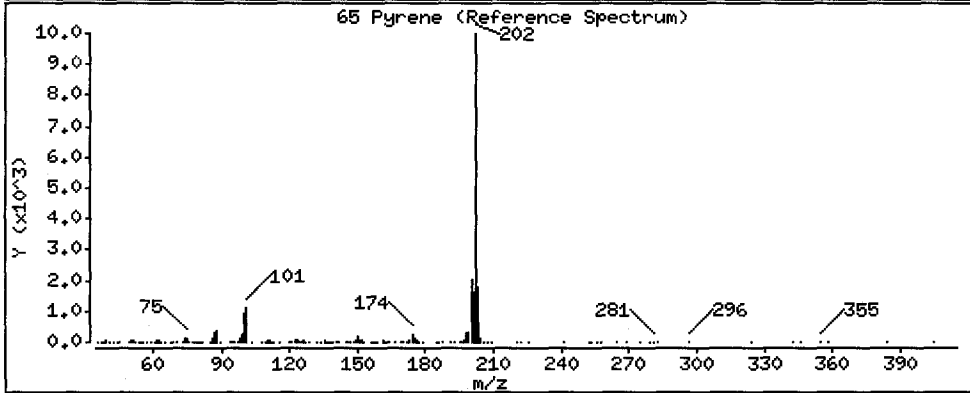
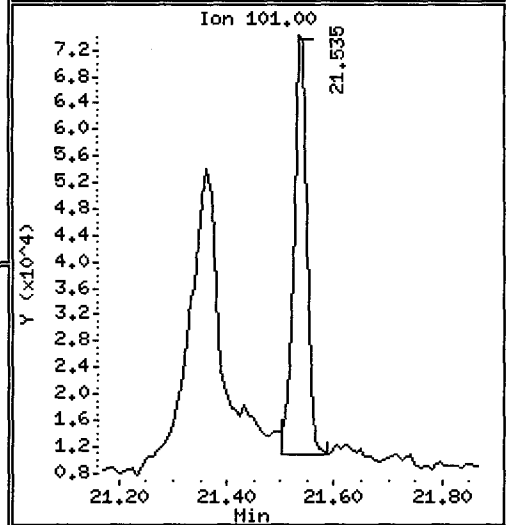
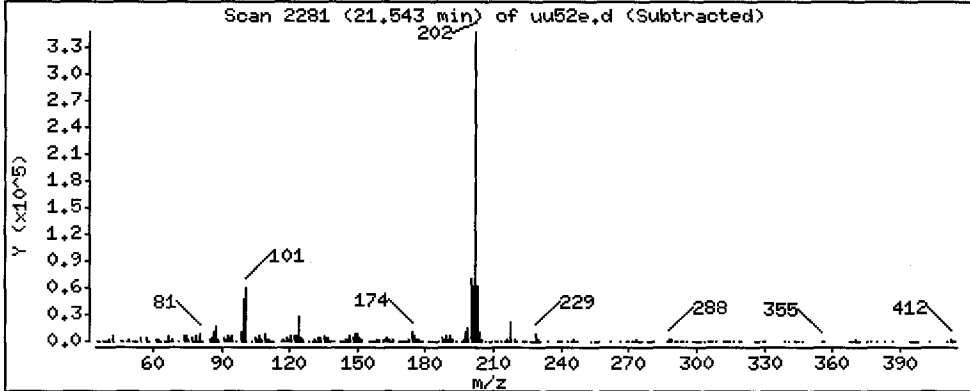
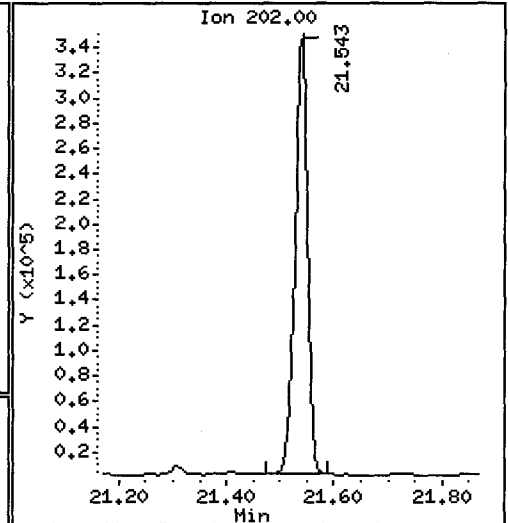
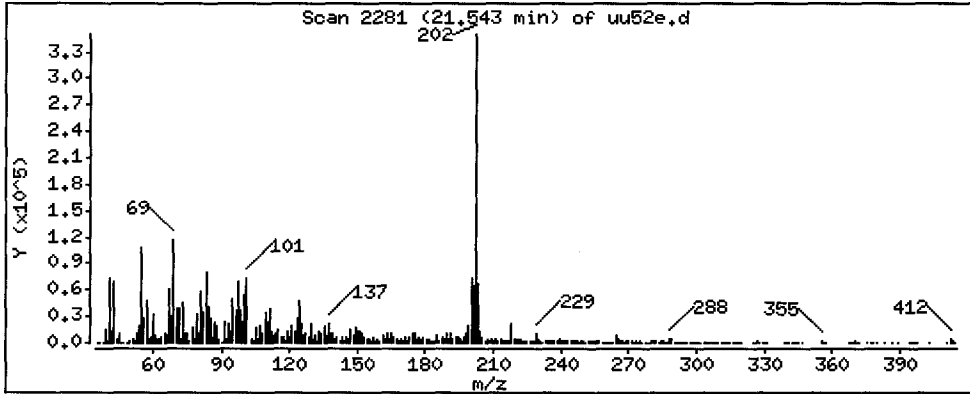
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 787.7 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

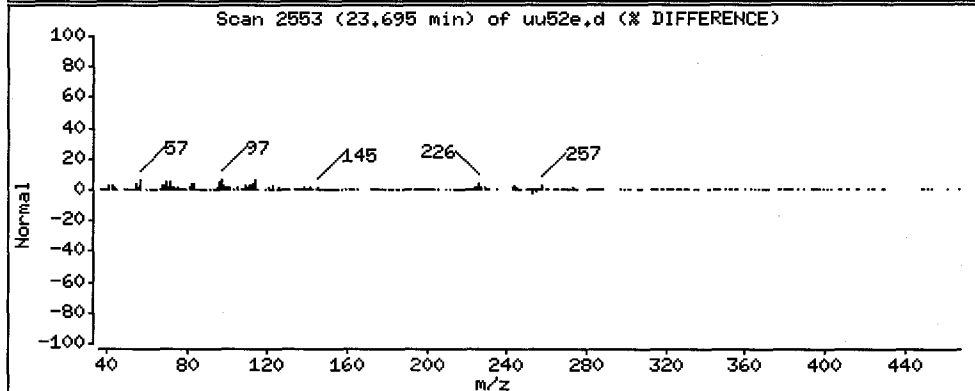
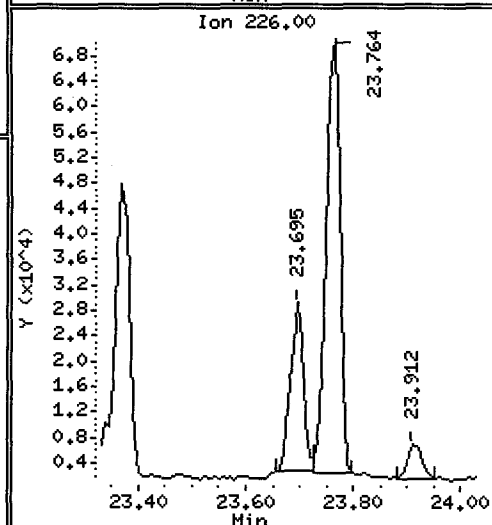
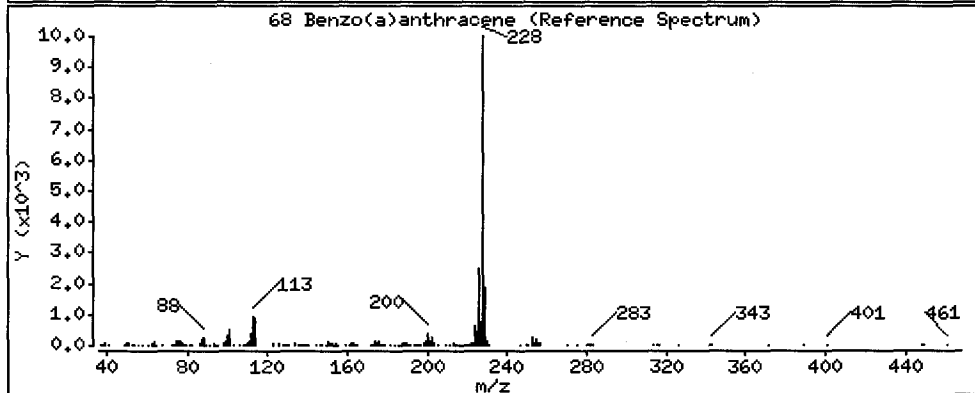
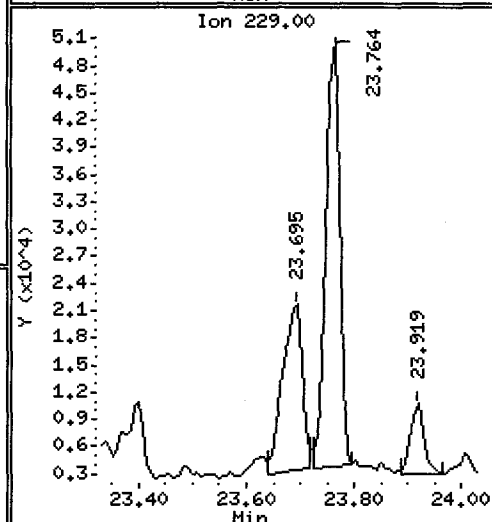
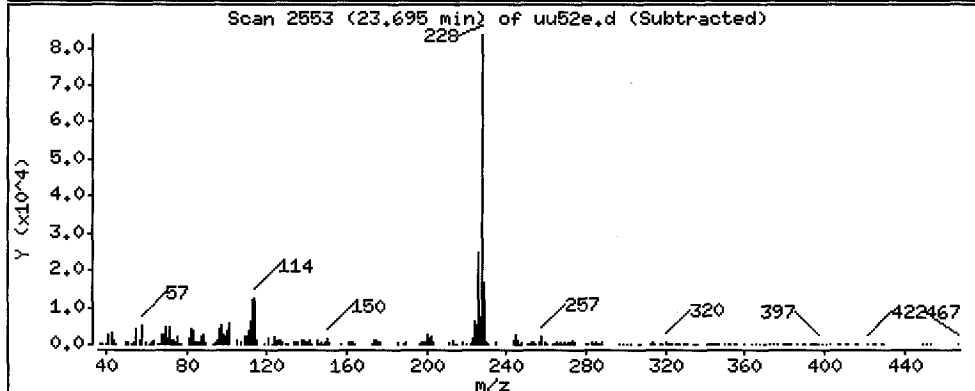
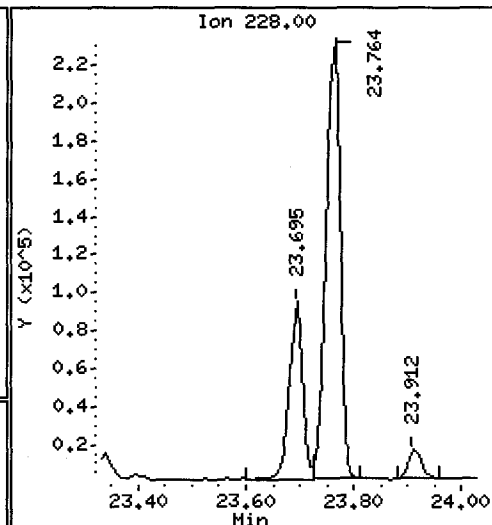
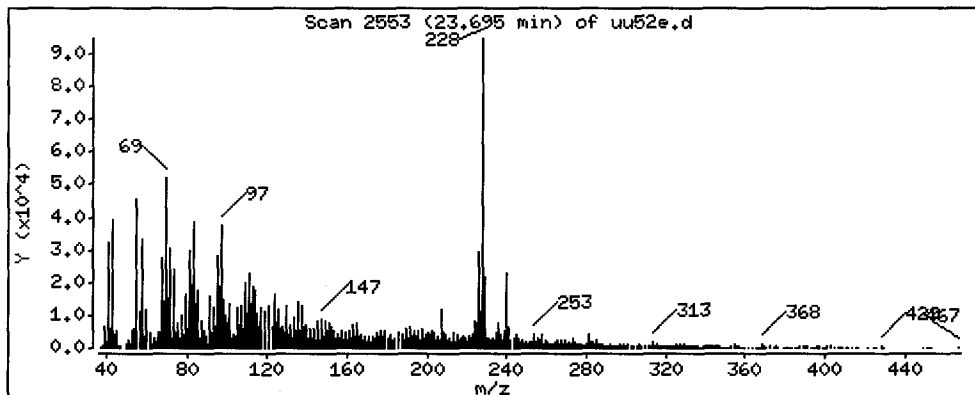
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 236.4 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

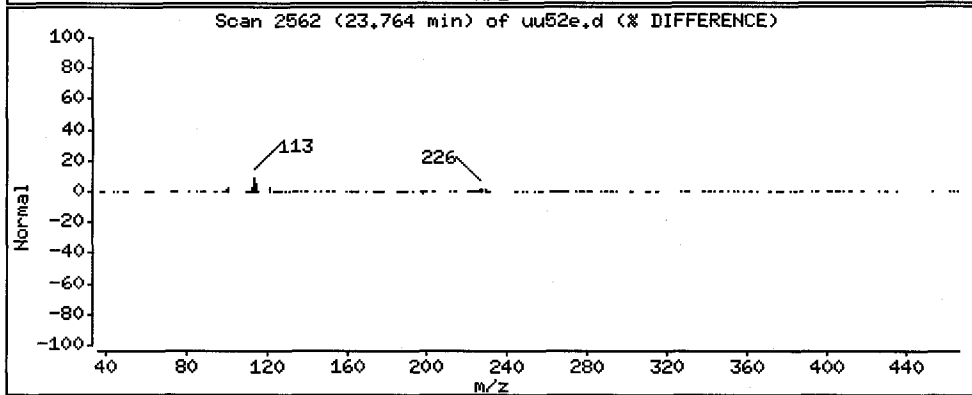
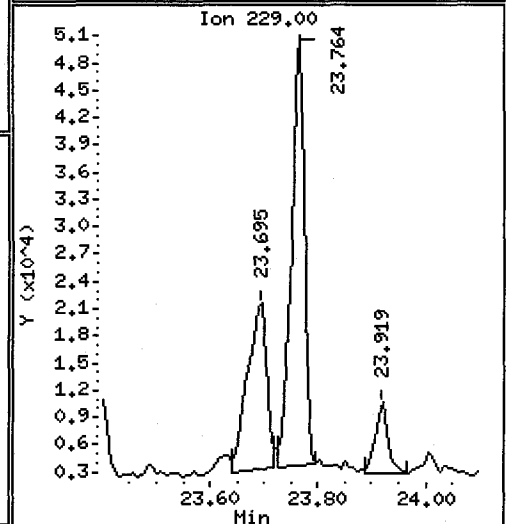
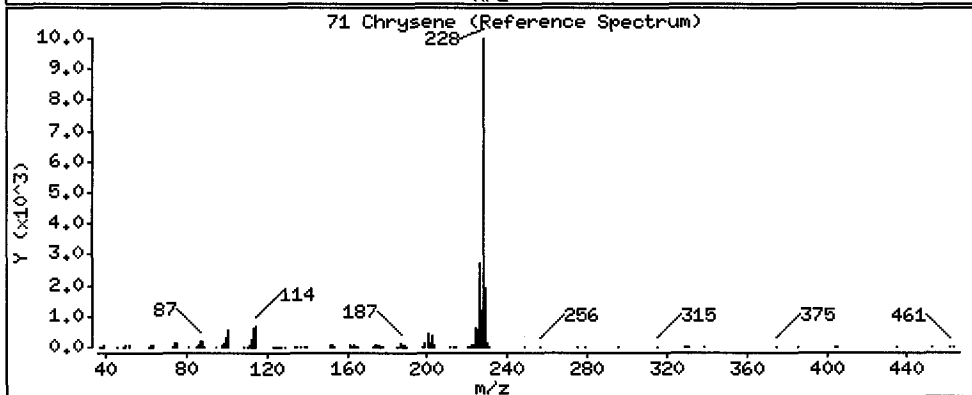
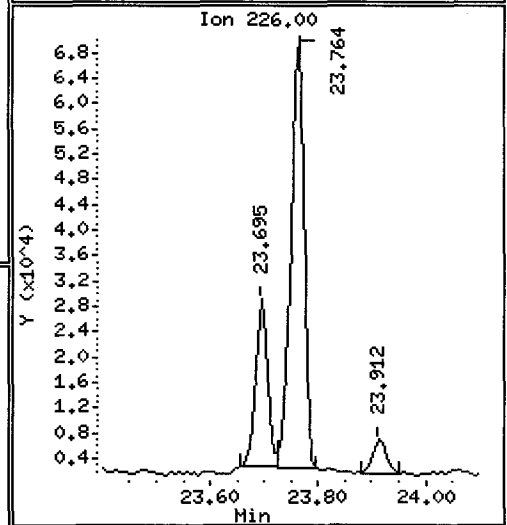
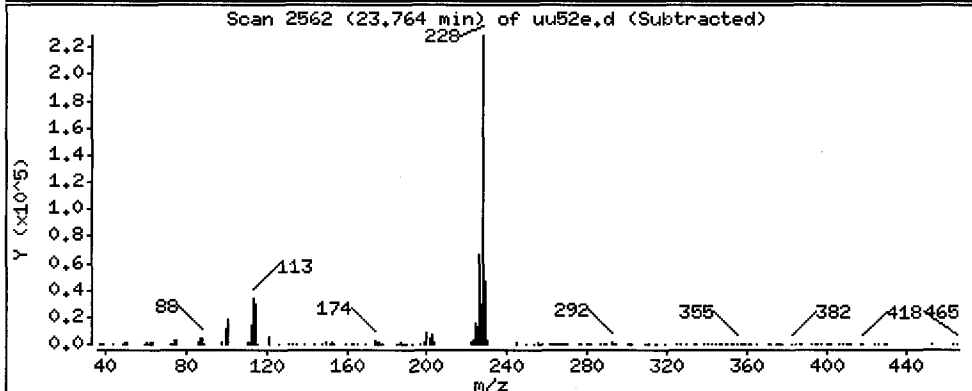
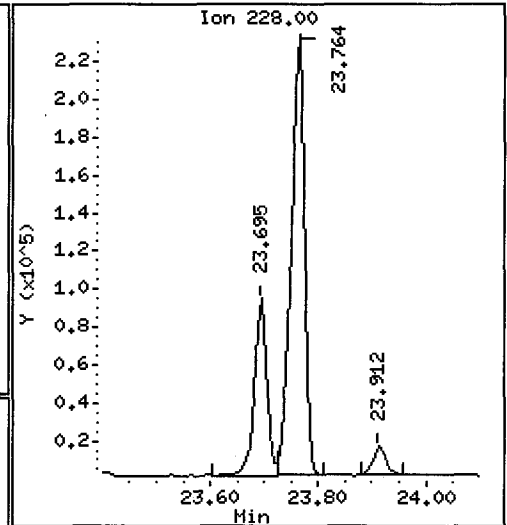
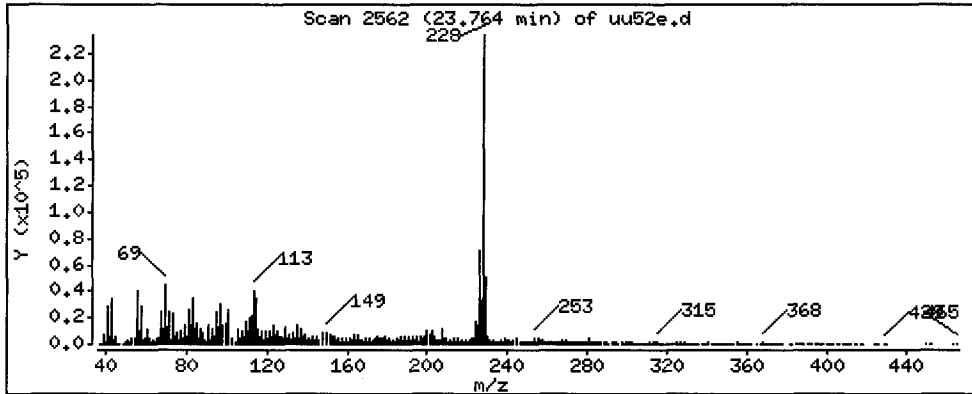
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 678.0 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

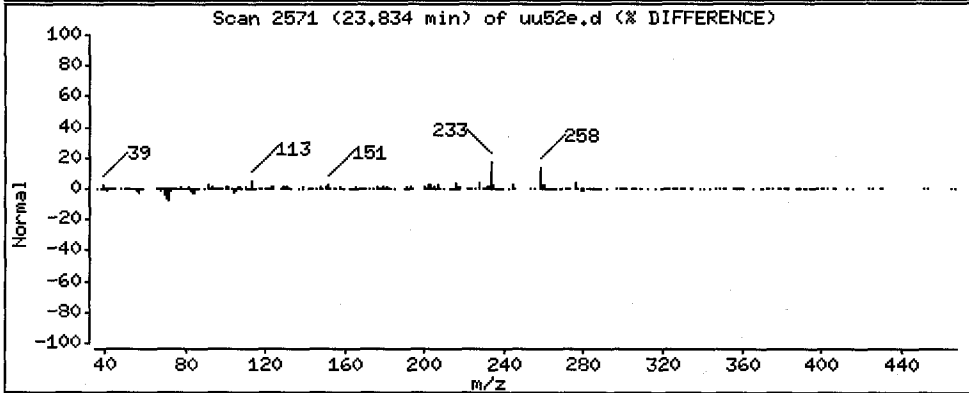
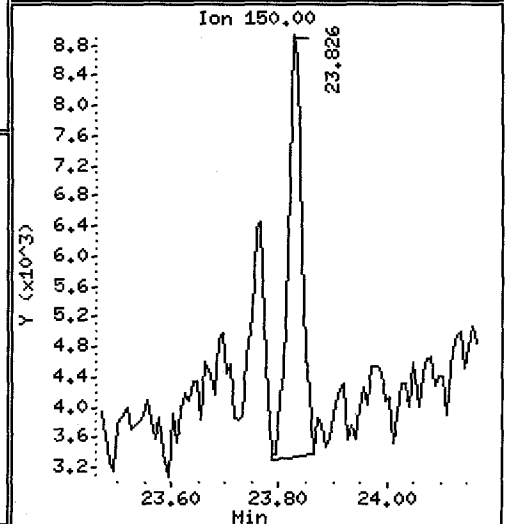
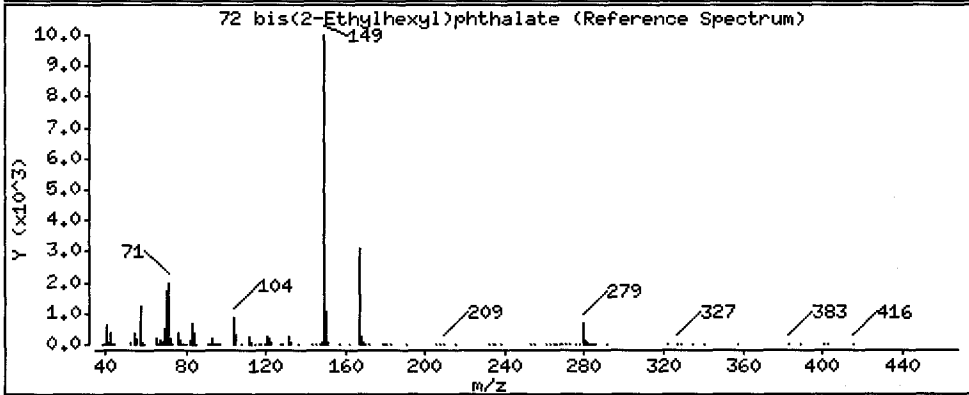
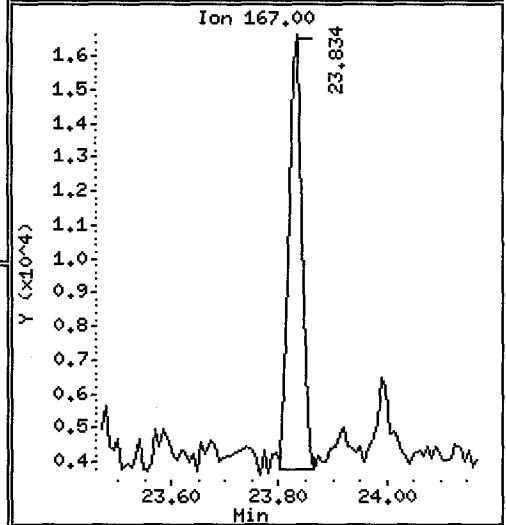
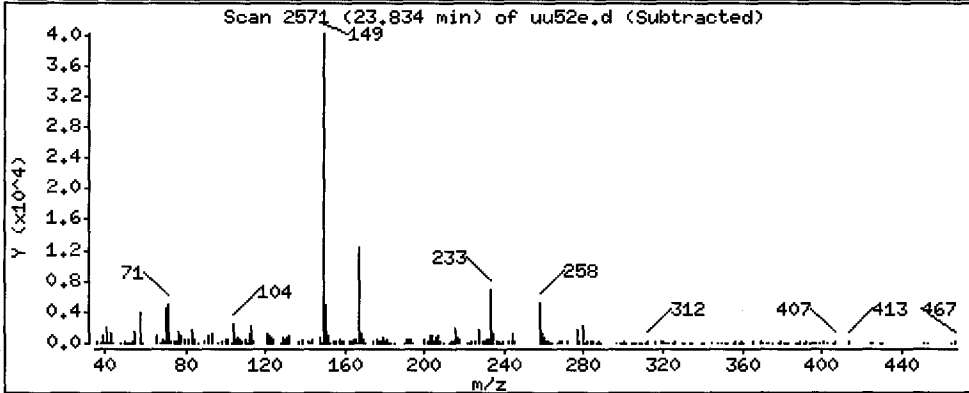
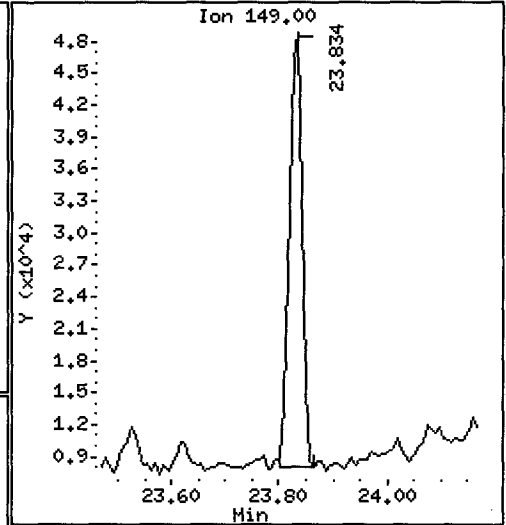
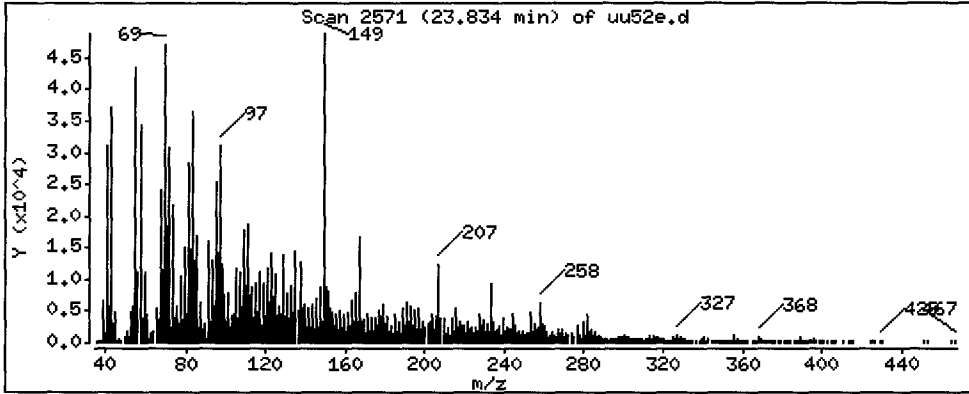
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

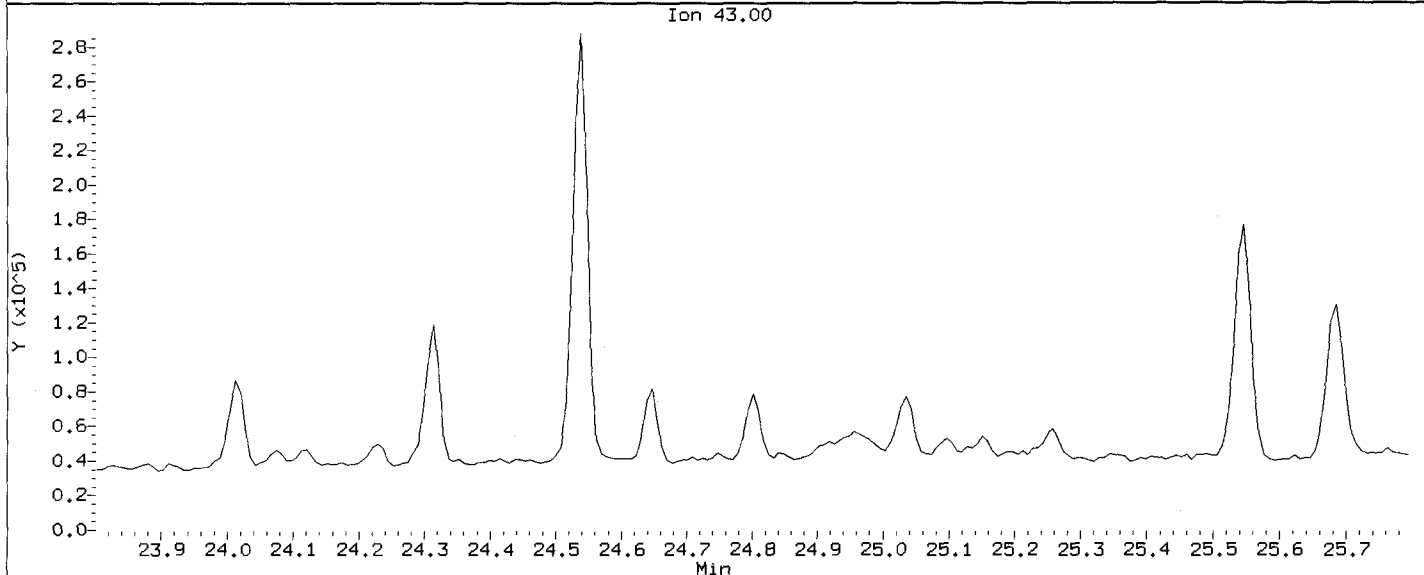
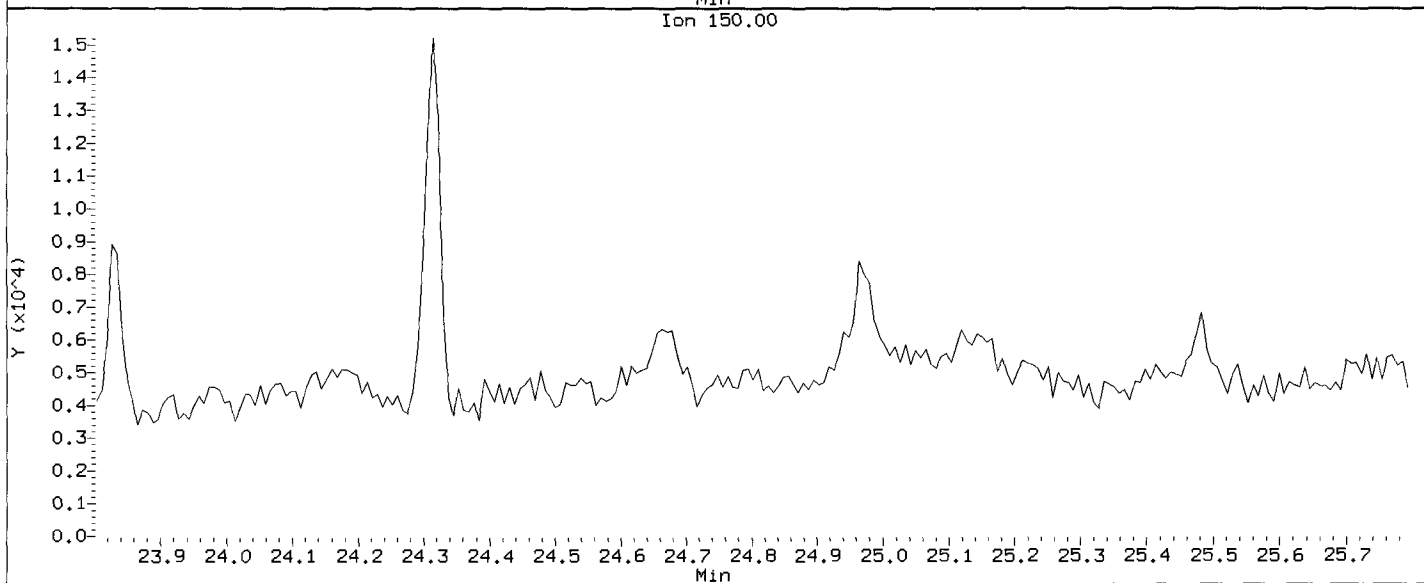
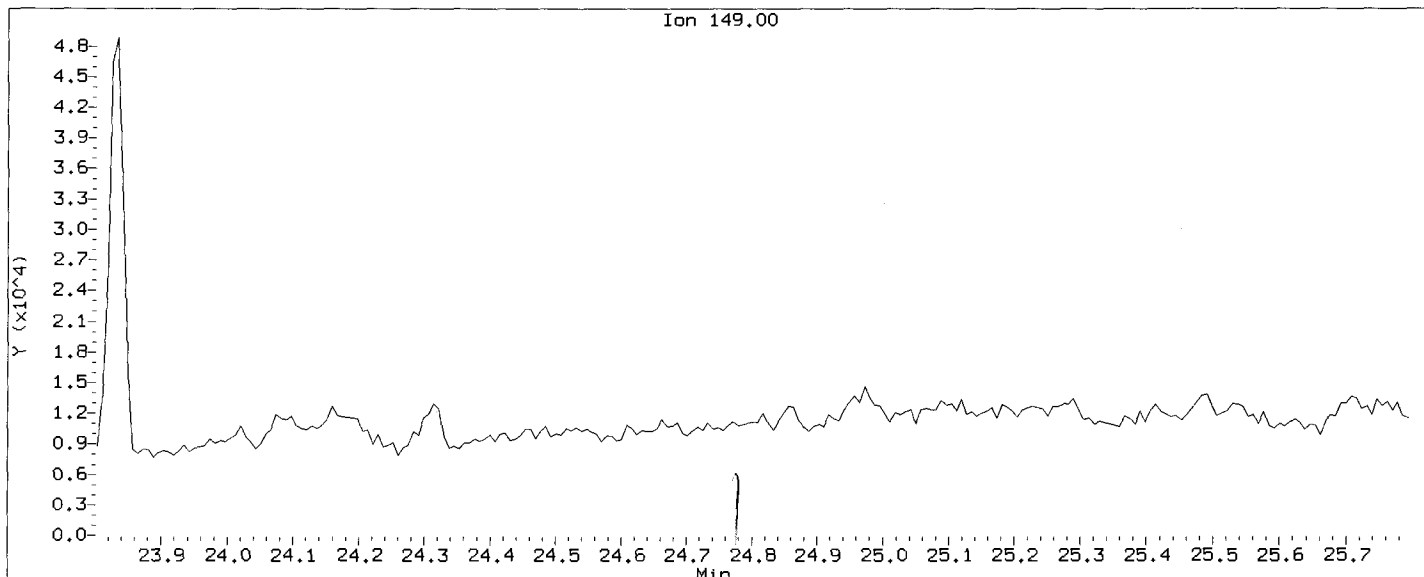
72 bis(2-Ethylhexyl)phthalate

Concentration: 124.2 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52e.d
Injection Date: 26-MAY-2012 19:39
Instrument: nt10.i
Client Sample ID: MS004-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



UU52 : 00848

Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

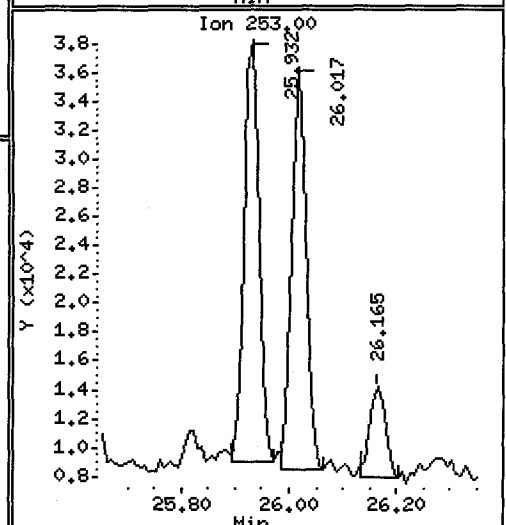
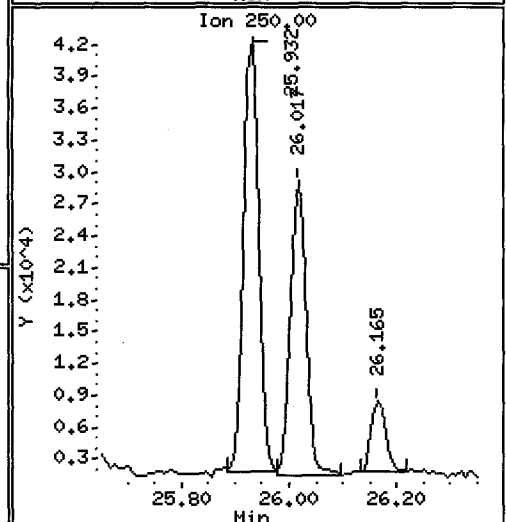
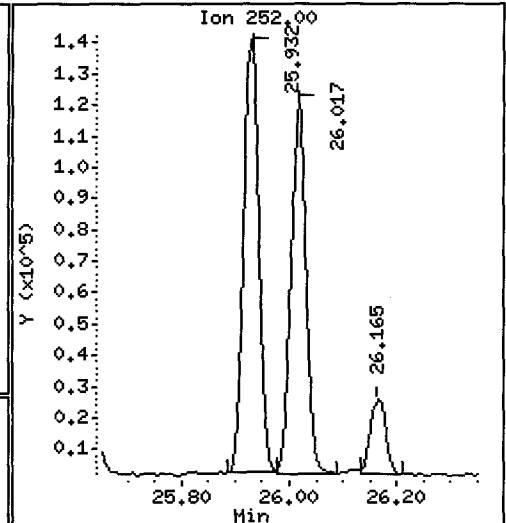
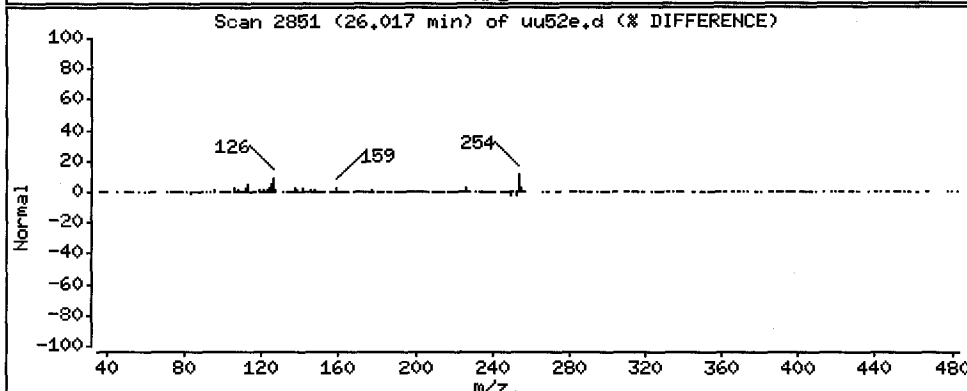
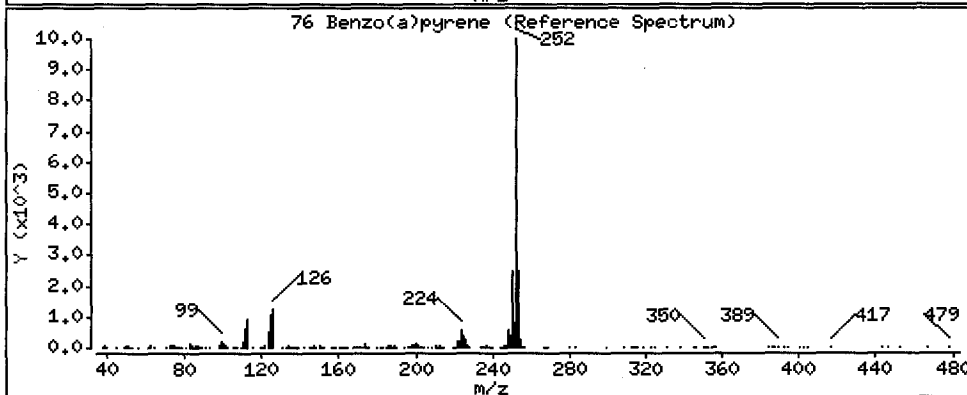
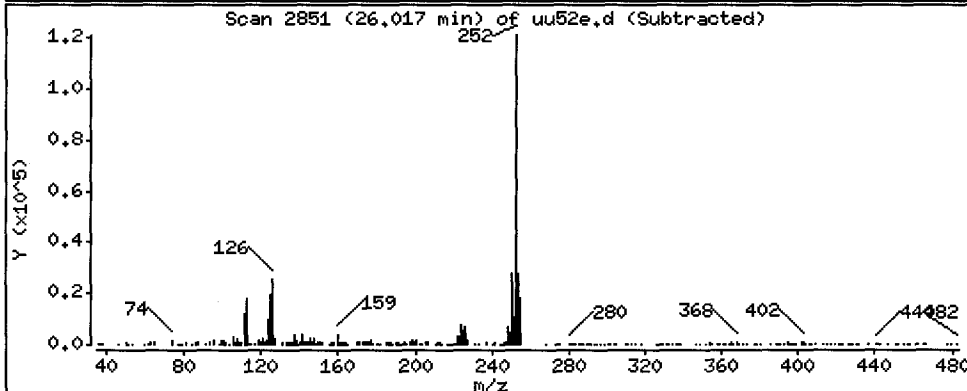
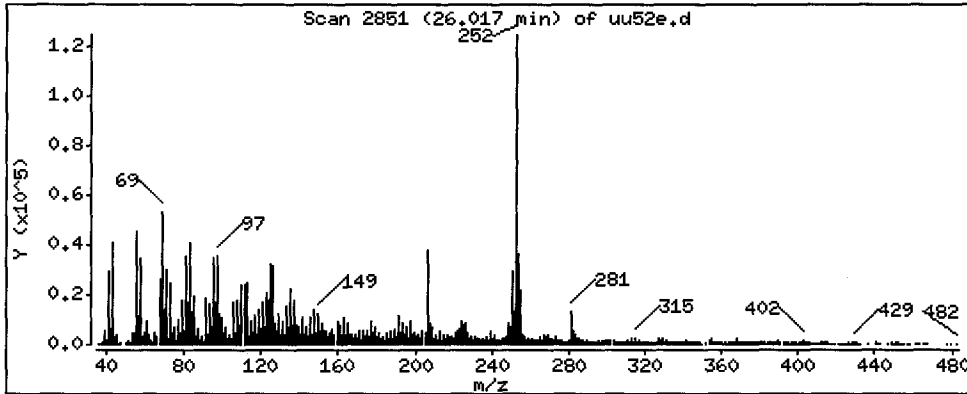
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 374.2 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

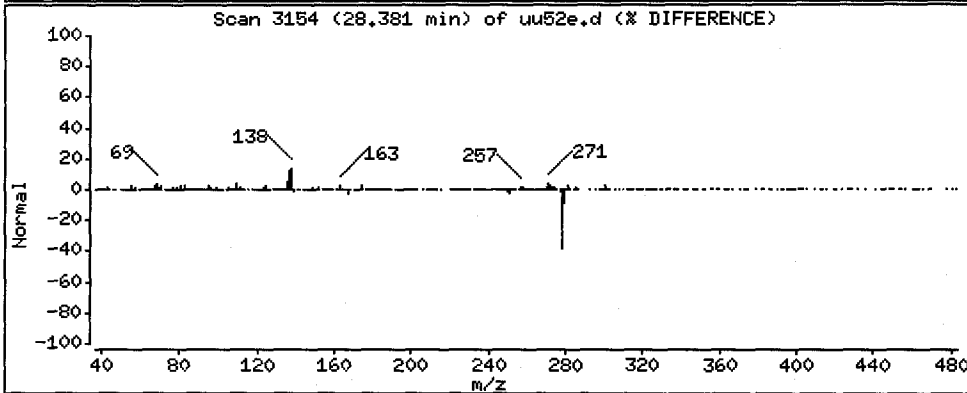
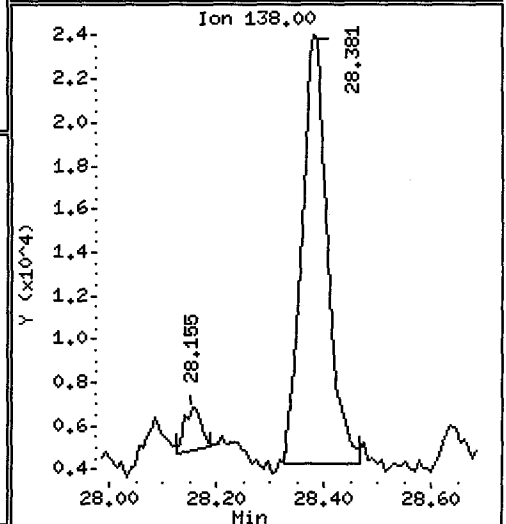
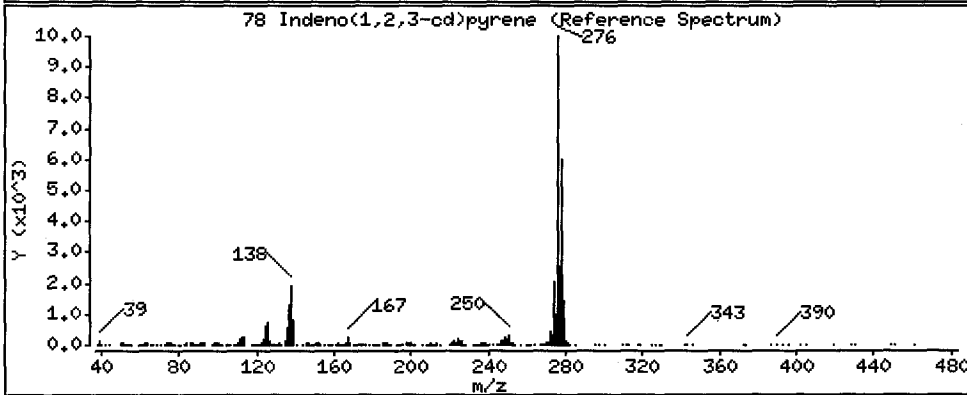
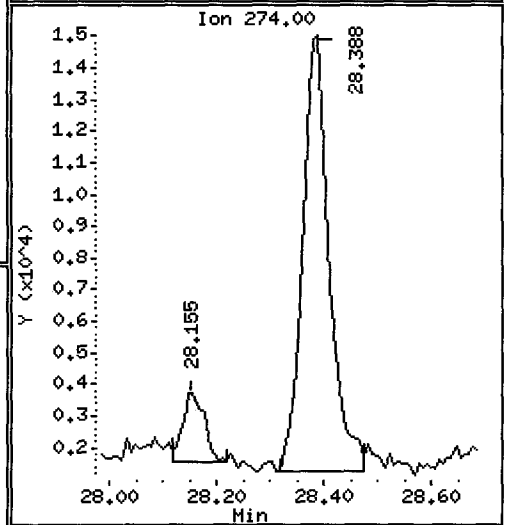
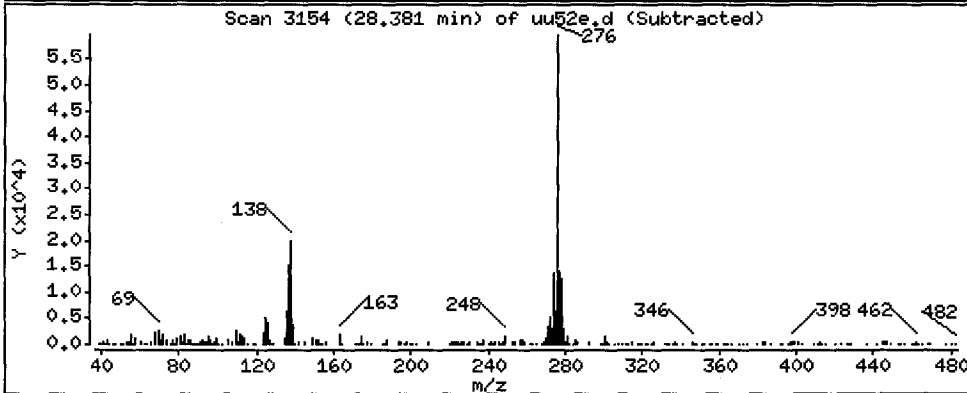
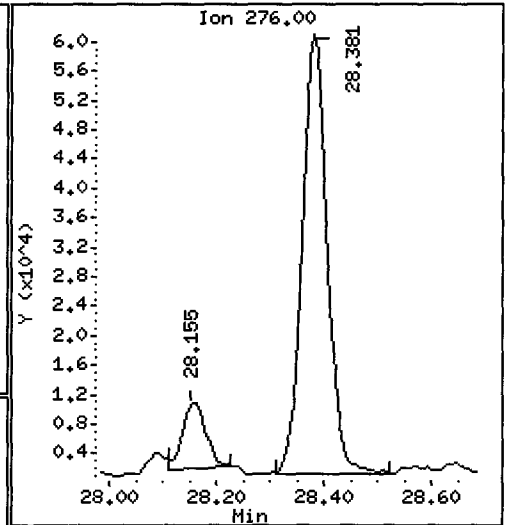
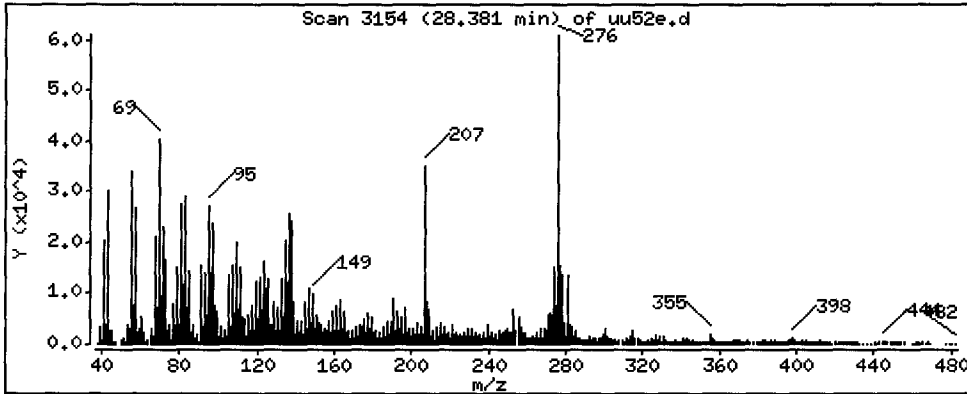
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 293.0 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

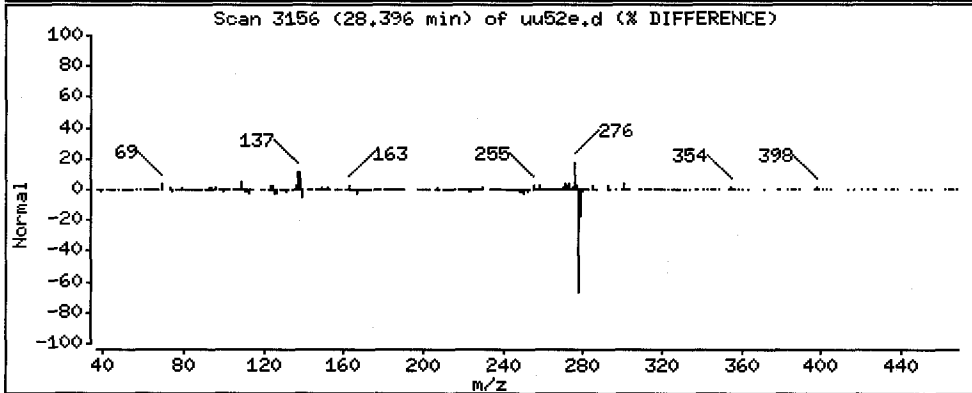
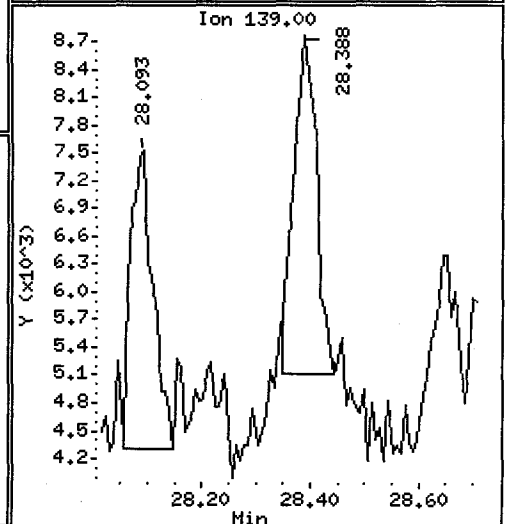
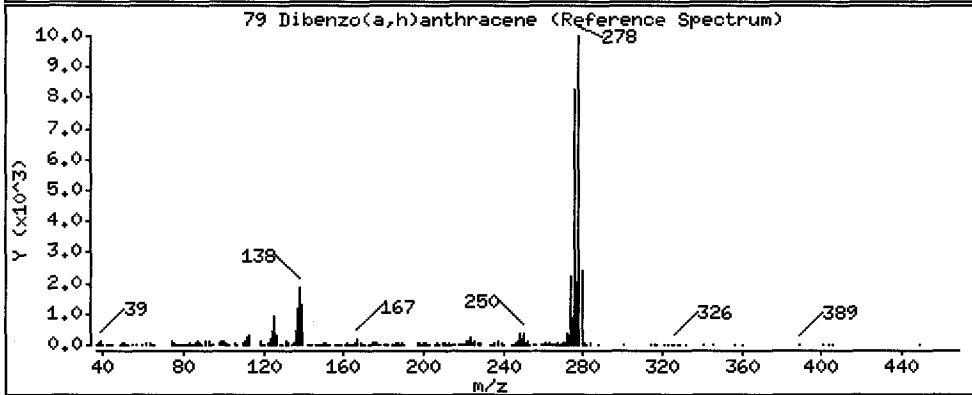
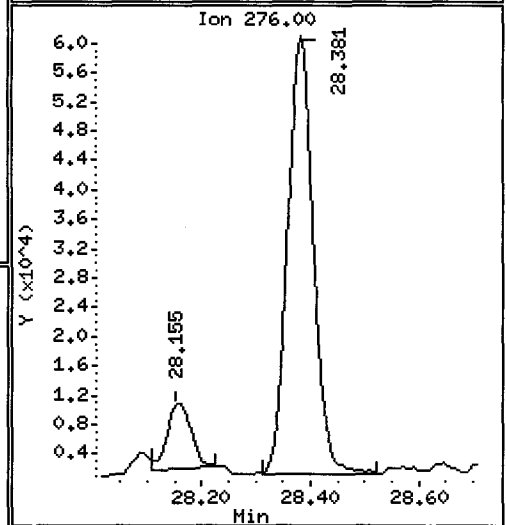
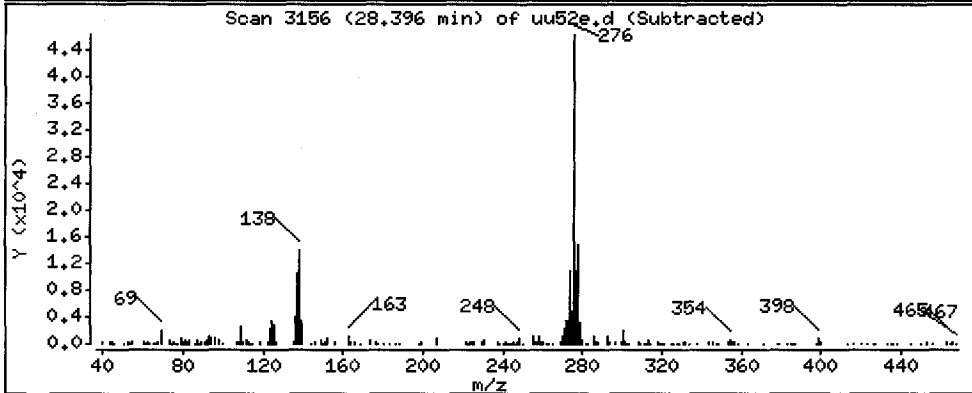
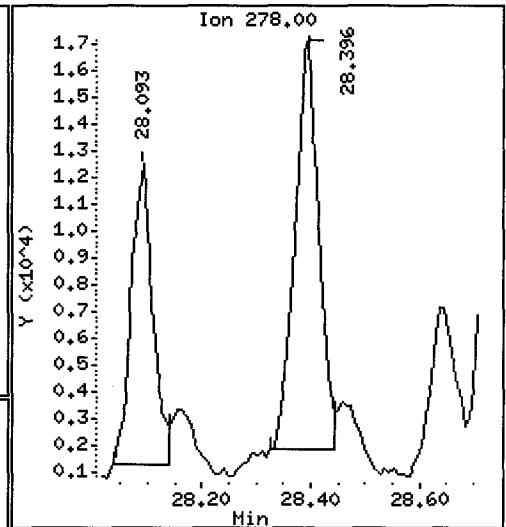
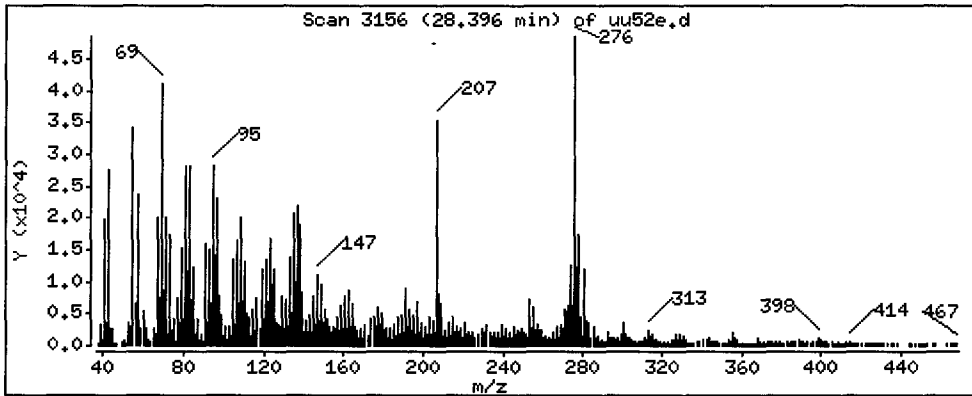
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 86.90 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

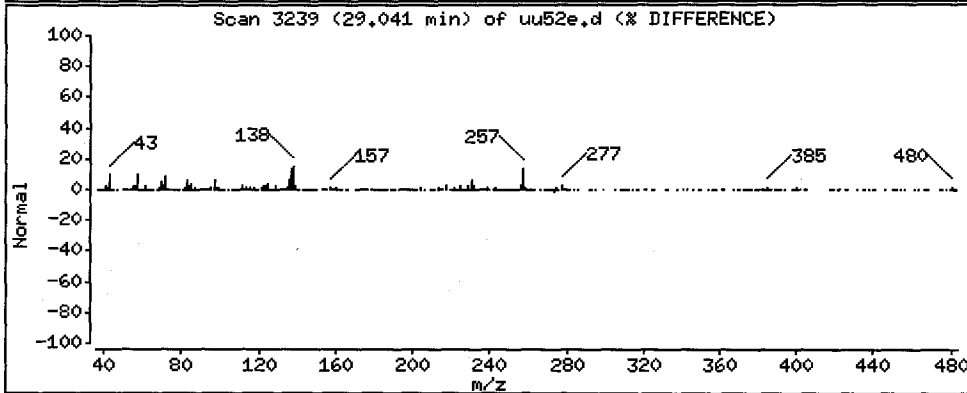
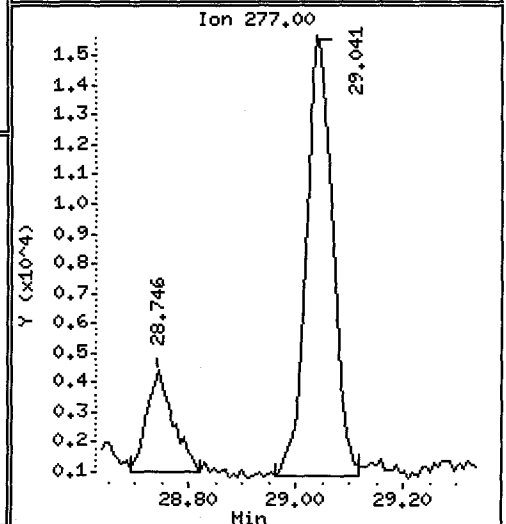
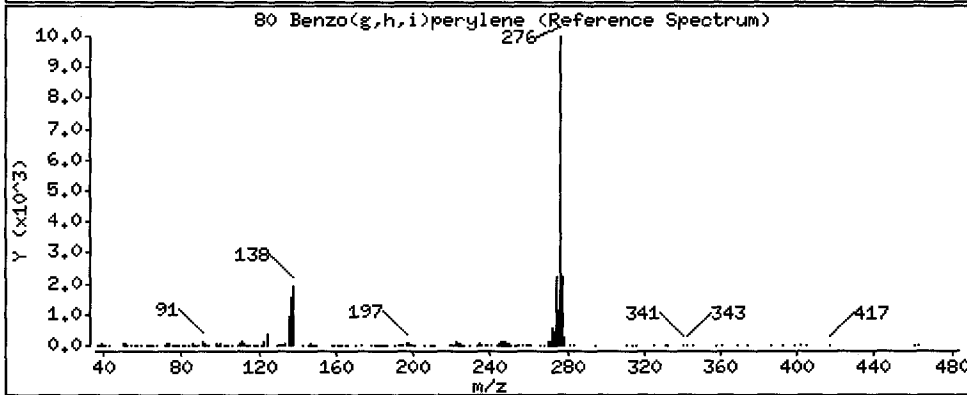
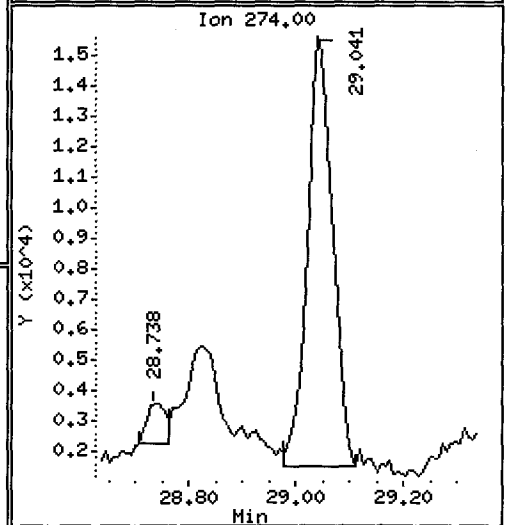
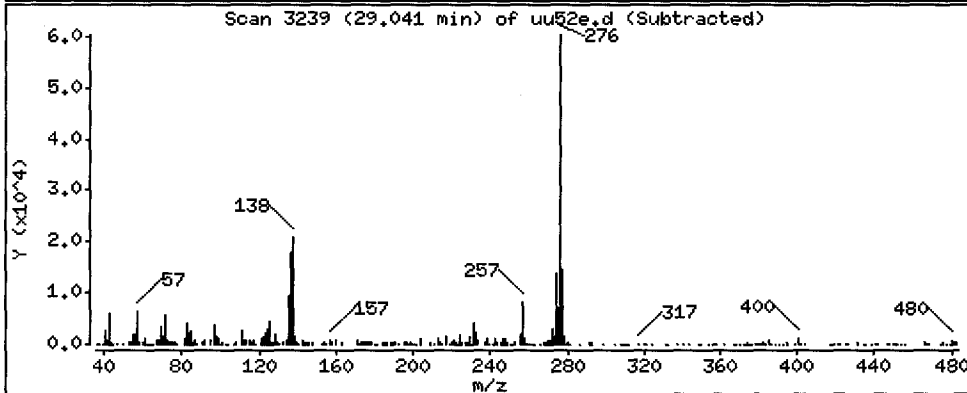
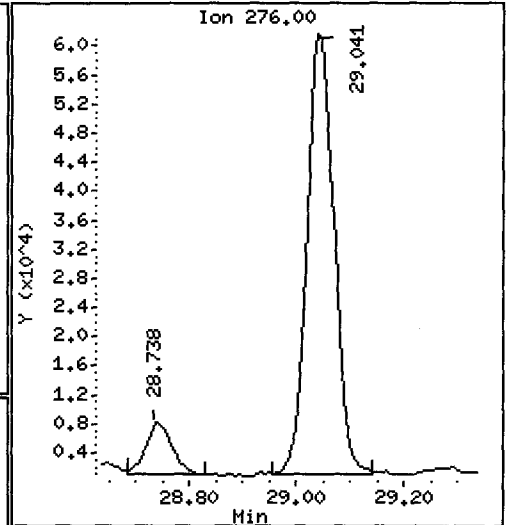
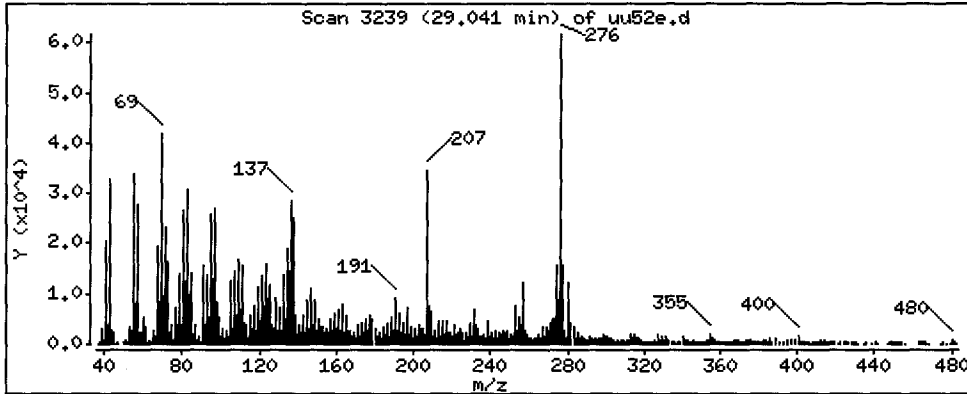
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 359.2 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

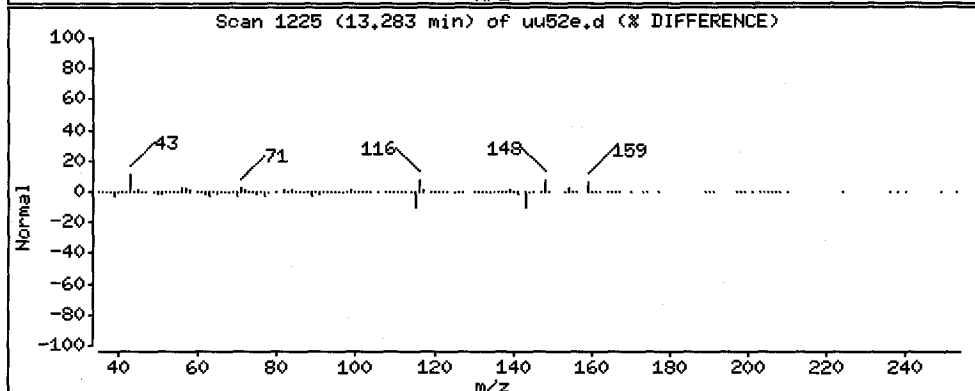
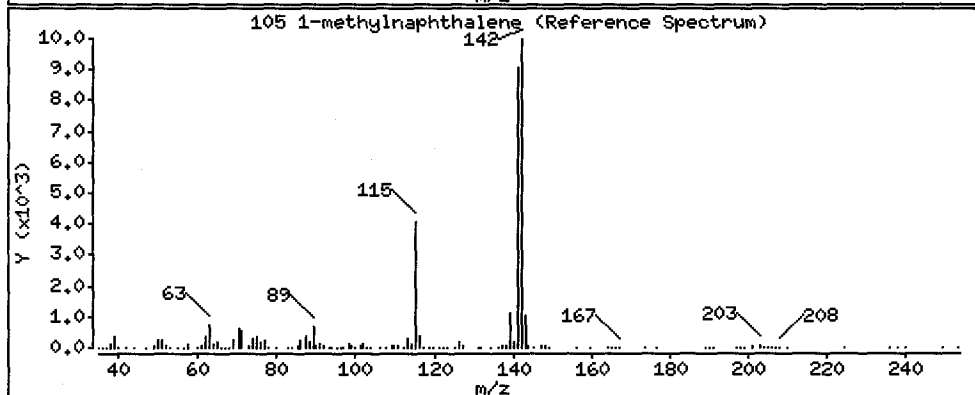
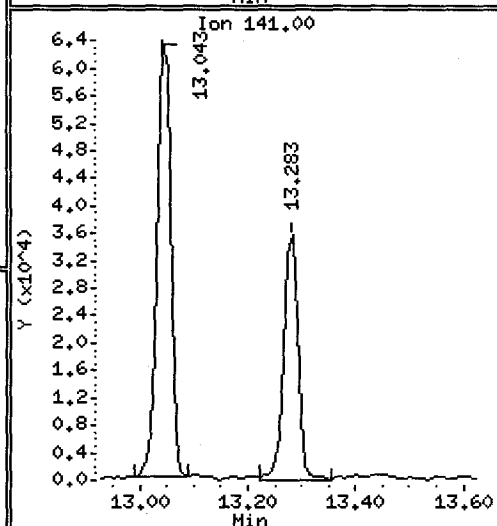
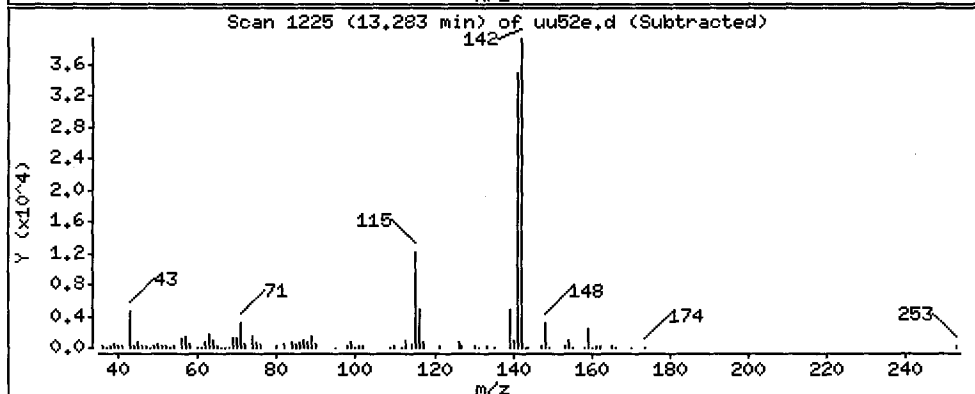
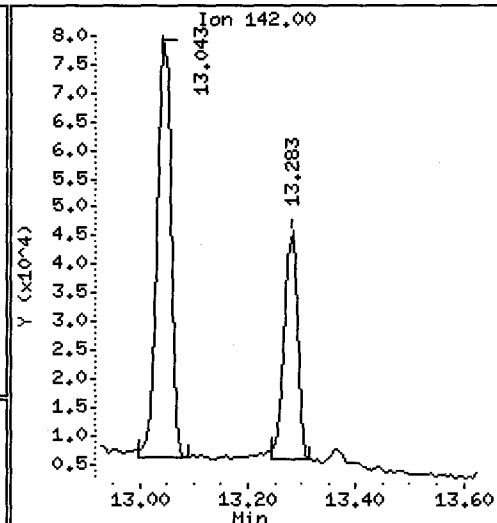
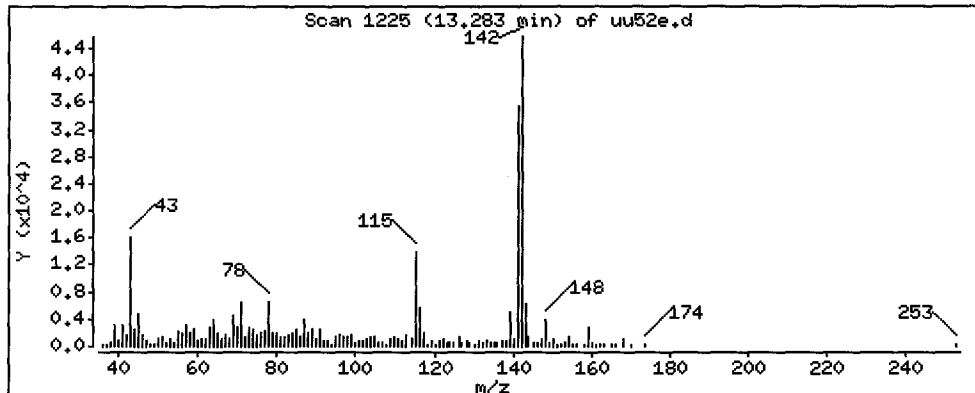
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 138.1 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

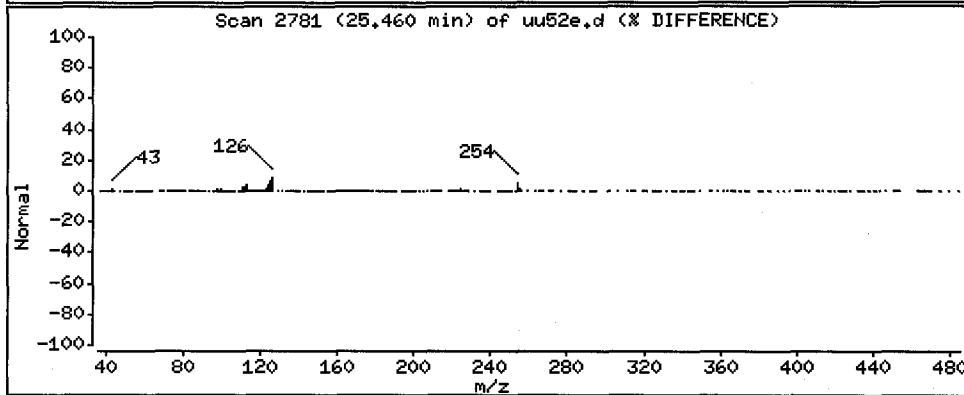
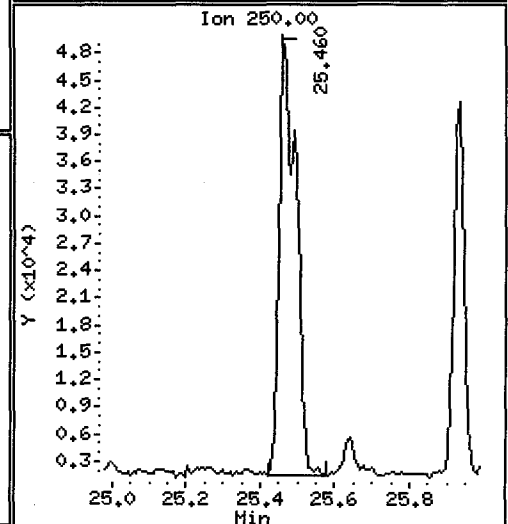
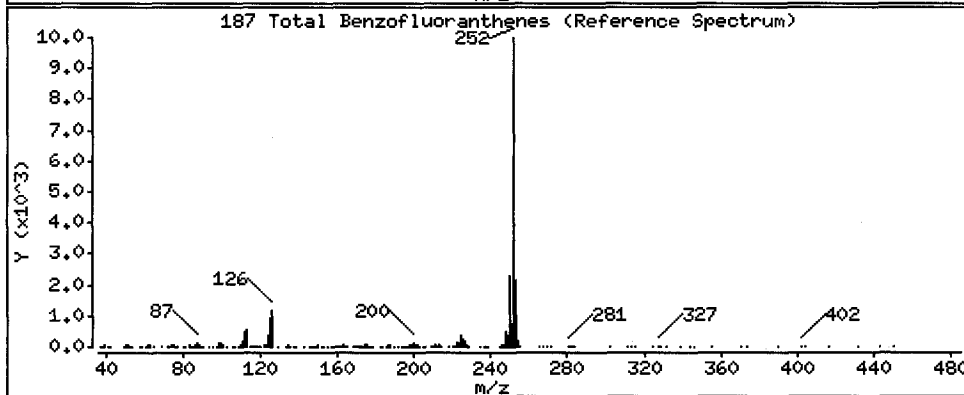
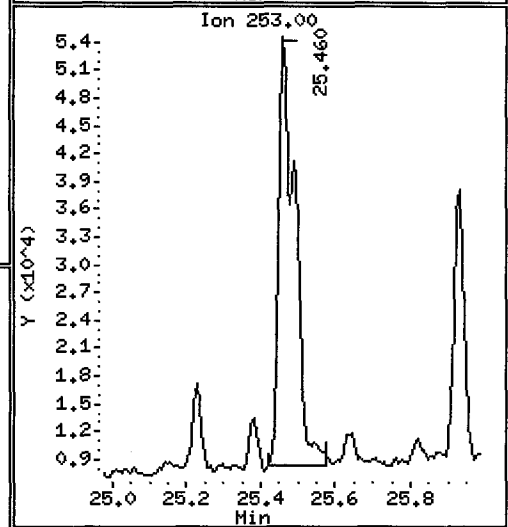
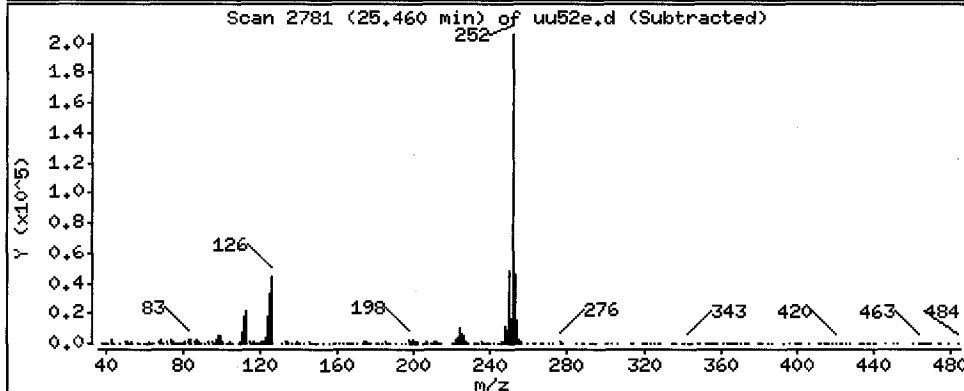
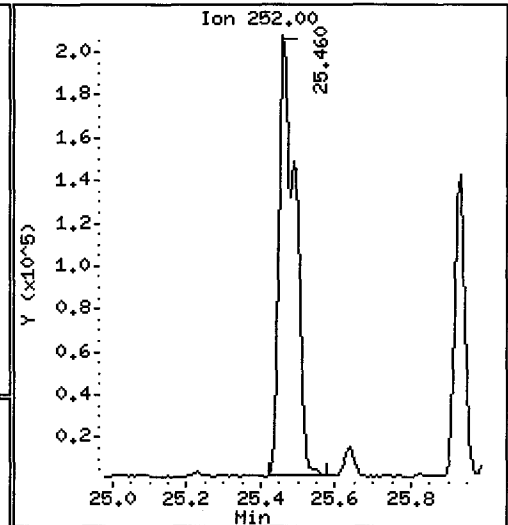
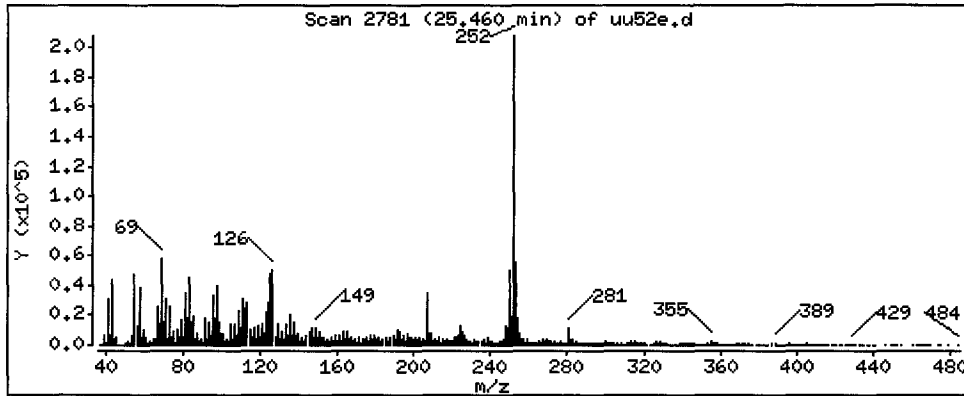
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 970.5 ug/kg



Date : 26-MAY-2012 19:39

Client ID: MS004-SS-120515

Instrument: nt10.i

Sample Info: UU52E,3

Volume Injected (uL): 1.0

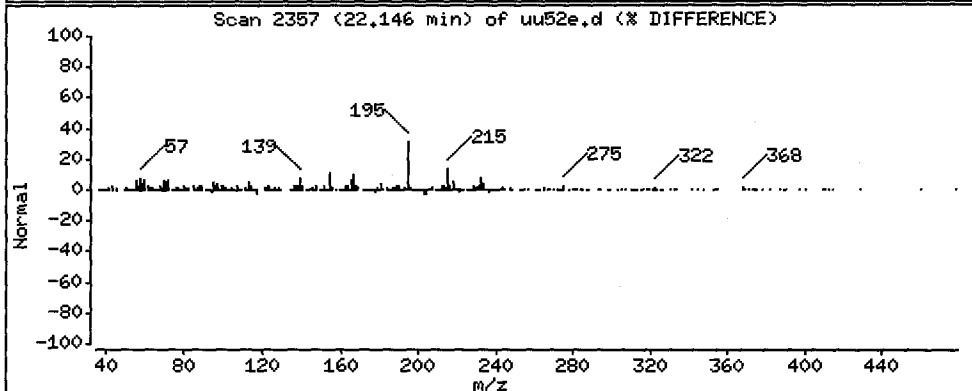
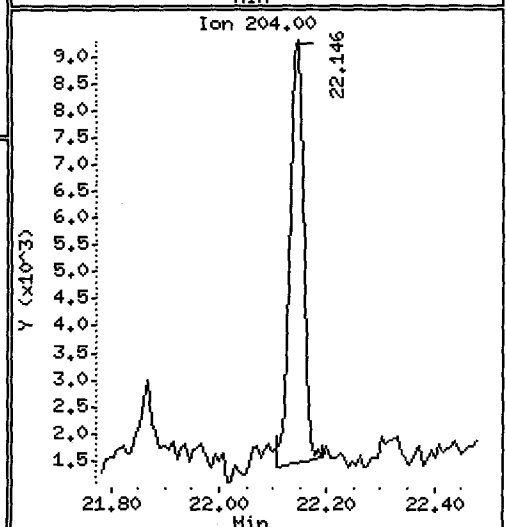
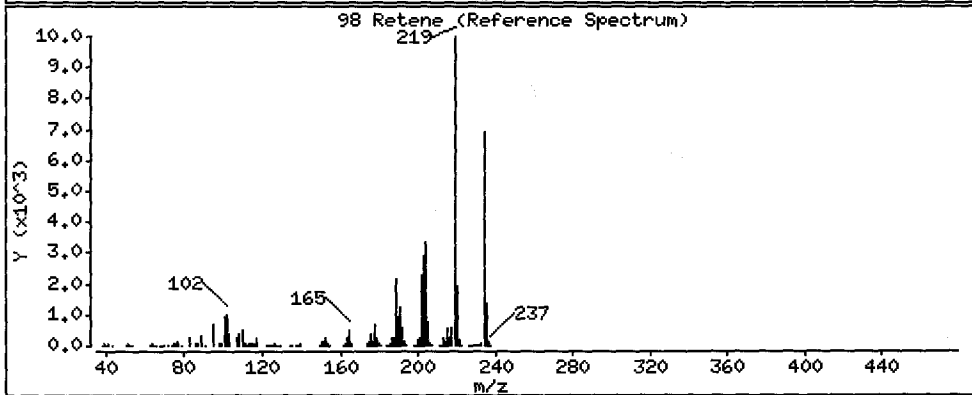
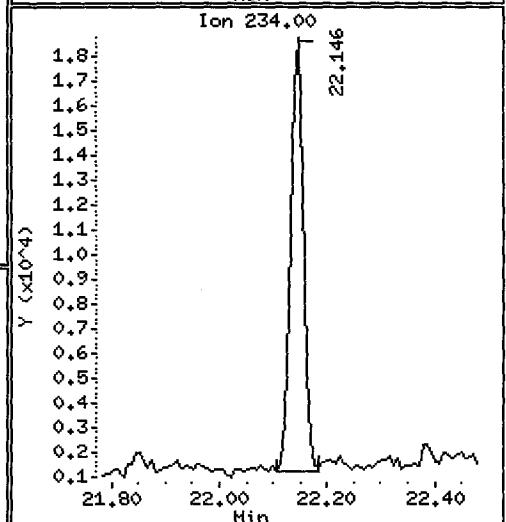
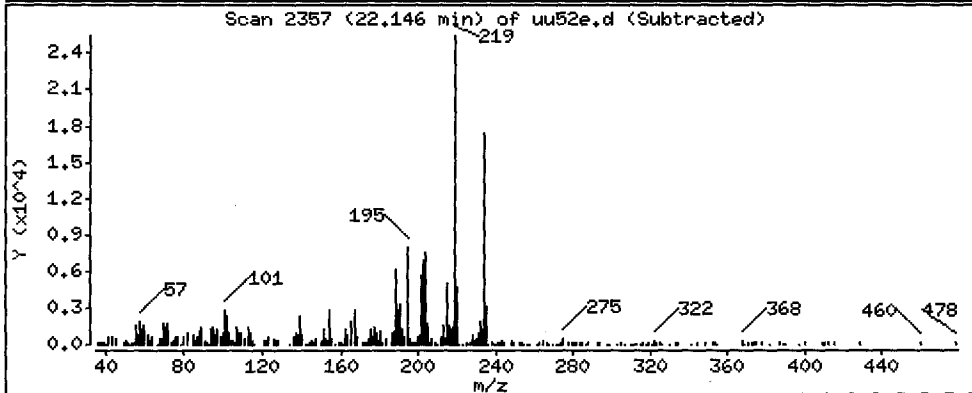
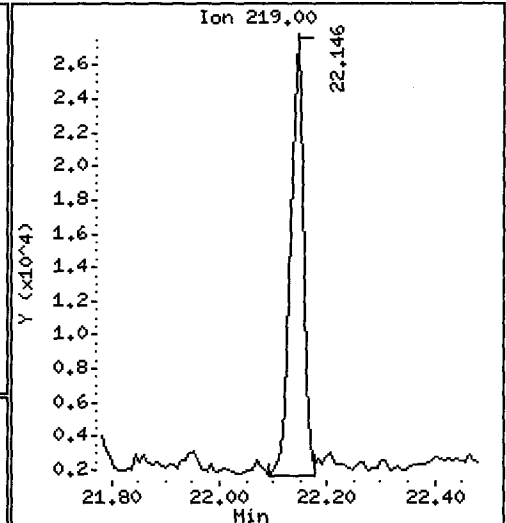
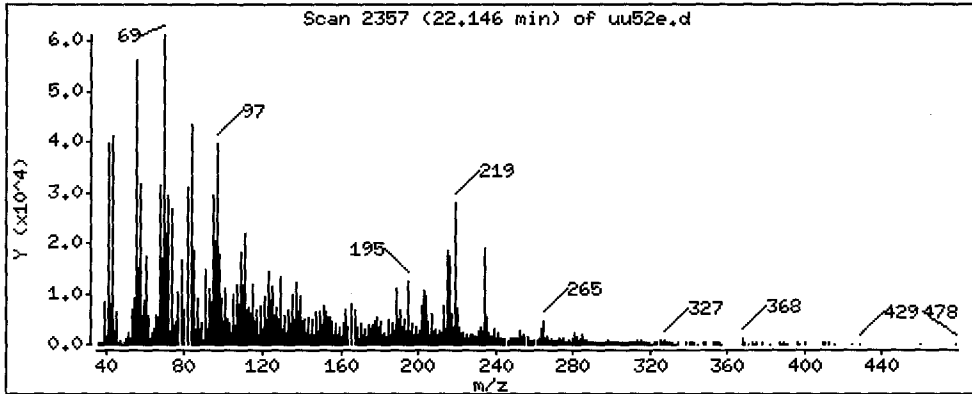
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

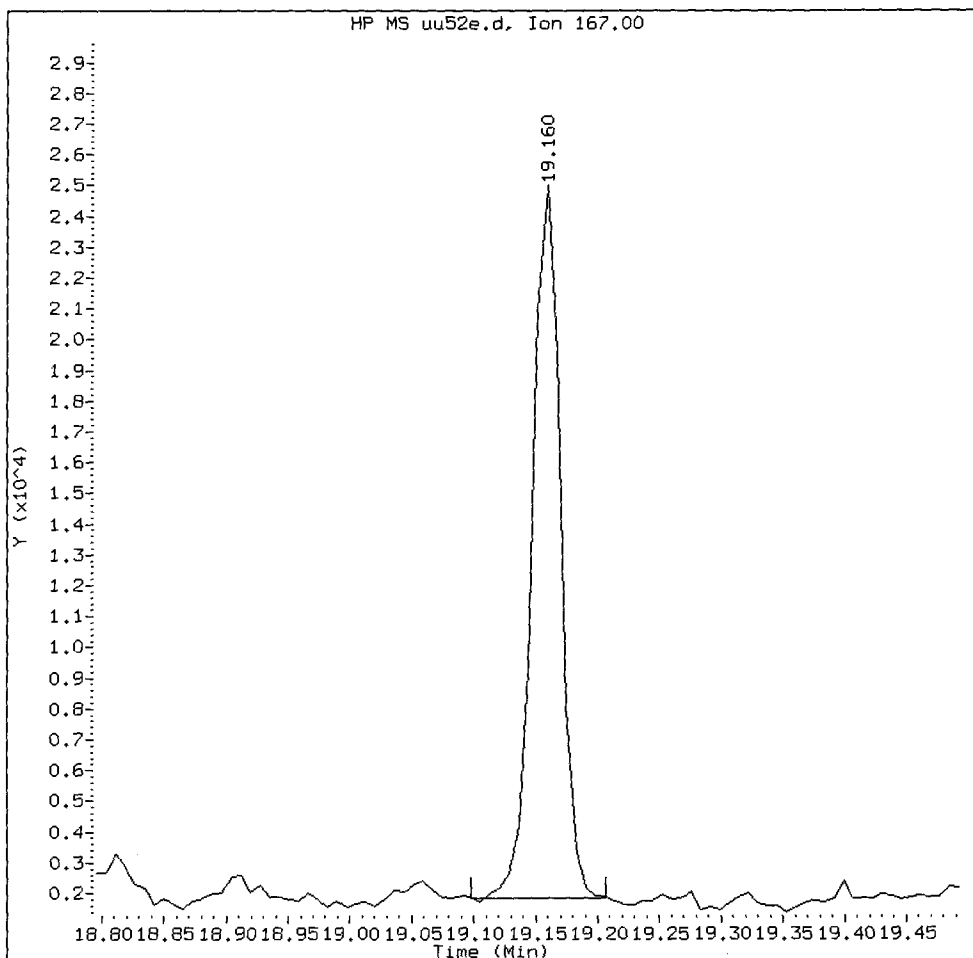
98 Retene

Concentration: 126.4 ug/kg



UU52E, /chem1/nt10.i/20120526.b/uu52e.d

Carbazole Amount: 0.23 Area: 37142



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 6/4/12

CO-ELUTION SUMMARY FOR FILE - uu52e.d

Lab ID: UU52E, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatible Report SW846 Method 8270D

YZ 6/4/12

Data file : /chem1/nt10.i/20120526.b/uu52f.d
 Lab Smp Id: UU52F Client Smp ID: MS005-SS-120515
 Inj Date : 26-MAY-2012 20:16
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52F,3
 Misc Info : 12-8898
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 8
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 114.00000 | Weight of sample extracted (g) |
| M | 91.10000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | | 112 | 6.598 | 6.537 | (0.744) | 117561 | 1.76594 | 522.2 |
| \$ 2 Phenol-d5 | | 99 | 8.283 | 8.237 | (0.935) | 170773 | 2.05934 | 608.9 |
| 3 Phenol | | 94 | 8.314 | 8.260 | (0.938) | 322267 | 3.64593 | 1078 |
| \$ 5 2-Chlorophenol-d4 | | 132 | 8.507 | 8.476 | (0.960) | 123002 | 1.69302 | 500.6 |
| 4 Bis(2-Chloroethyl)ether | | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | | 152 | 8.863 | 8.855 | (1.000) | 190373 | 4.00000 | - |
| 9 1,4-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | | 152 | 9.243 | 9.236 | (1.043) | 47567 | 0.99803 | 295.1 |
| 12 1,2-Dichlorobenzene | | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | | 108 | 9.476 | 9.430 | (1.069) | 15496 | 0.22243 | 65.77 (M) |
| 17 Hexachloroethane | | 117 | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|--------|---------|-----|-------|------------------------|----------------|-----------|
| | | | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | | | (ug/mL) | (ug/kg) |
| ===== | ===== | | == | ===== | ===== | | ===== | ===== | ===== | ===== |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | | 9.771 | 9.725 | (1.102) | | | 812968 | 11.1853 | 3307 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.043 | 10.027 | (0.872) | | | 70815 | 1.06492 | 314.9 |
| 19 Nitrobenzene | 77 | | | | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | 10.864 | 10.833 | (0.944) | | | 14654 | 0.22415 | 66.28 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | 11.187 | 11.087 | (0.972) | | | 460450 | 10.6097 | 3137 |
| 25 2,4-Dichlorophenol | 162 | | | | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | | 11.511 | 11.504 | (1.000) | | | 742174 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.558 | 11.542 | (1.004) | | | 2799633 | 14.9631 | 4424 |
| 29 4-Chloroaniline | 127 | | | | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | | 13.051 | 13.043 | (1.134) | | | 263467 | 2.02556 | 598.9 |
| 33 Hexachlorocyclopentadiene | 237 | | | | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.910 | 13.902 | (0.904) | | | 171045 | 1.14324 | 338.0 |
| 37 2-Chloronaphthalene | 162 | | | | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | 15.048 | 15.032 | (0.978) | | | 164674 | 0.84955 | 251.2 (M) |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | | 15.388 | 15.373 | (1.000) | | | 431594 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | 15.458 | 15.442 | (1.005) | | | 324964 | 2.77944 | 821.8 |
| 45 2,4-Dinitrophenol | 184 | | | | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | 15.813 | 15.798 | (1.028) | | | 382551 | 2.23338 | 660.4 |
| 47 4-Nitrophenol | 109 | | | | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | | 16.579 | 16.563 | (1.077) | | | 200855 | 1.53038 | 452.5 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 17.165 | 17.142 | (1.115) | | | 34086 | 1.91343 | 565.8 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | 18.409 | 18.378 | (0.987) | | | 2810 | 0.13793 | 40.78 |
| * 59 Phenanthrene-d10 | 188 | | 18.656 | 18.633 | (1.000) | | | 643967 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.703 | 18.687 | (1.002) | | | 1024353 | 6.16880 | 1824 |
| 61 Anthracene | 178 | | 18.803 | 18.780 | (1.008) | | | 204716 | 1.18015 | 349.0 |
| 62 Carbazole | 167 | | 19.183 | 19.144 | (1.028) | | | 68755 | 0.42837 | 126.7 (M) |
| 63 Di-n-butylphthalate | 149 | | | | | | | Compound Not Detected. | | |

| Compounds | QUANT | | SIG | | | | CONCENTRATIONS | |
|-----------------------------------|-------|------------------------|--------|---------|----------|-------------------|----------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 64 Fluoranthene | 202 | 21.155 | 21.101 | (1.134) | 1237166 | 6.56187 | 1940 | |
| 65 Pyrene | 202 | 21.550 | 21.519 | (0.908) | 1184633 | 5.39910 | 1596 | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.844 | (0.921) | 161332 | 1.17375 | 347.1 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo (a) anthracene | 228 | 23.702 | 23.679 | (0.999) | 202680 | 0.99919 | 295.4 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.710 | (1.000) | 721119 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.772 | 23.749 | (1.002) | 346391 | 1.94120 | 574.0 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.842 | 23.818 | (0.961) | 85390 | 0.56162 | 166.1 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.809 | 24.794 | (1.000) | 1107167 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo (b) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo (k) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo (a) pyrene | 252 | 26.033 | 26.002 | (0.996) | 195880 | 1.13164 | 334.6 | |
| * 77 Perylene-d12 | 264 | 26.141 | 26.102 | (1.000) | 669438 | 4.00000 | | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 28.412 | 28.342 | (1.087) | 164459 | 0.82137 | 242.9 | |
| 79 Dibenzo (a,h) anthracene | 278 | 28.419 | 28.365 | (1.087) | 50459 | 0.31992 | 94.60 (M) | |
| 80 Benzo (g,h,i) perylene | 276 | 29.087 | 29.002 | (1.113) | 187724 | 1.09336 | 323.3 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.275 | (1.155) | 179332 | 1.35190 | 399.7 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.475 | 25.483 | (0.975) | 607007 | 3.26786 | 966.3 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.146 | 22.131 | (0.933) | 48533 | 0.47501 | 140.5 | |

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: uu52f.d
 Lab Smp Id: UU52F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8898

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS005-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 190373 | 0.45 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 742174 | 1.54 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 431594 | 2.59 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 643967 | 0.79 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 721119 | 11.79 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1107167 | 8.96 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 669438 | 2.99 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.51 | 0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.39 | 0.10 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.66 | 0.12 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.73 | 0.06 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.81 | 0.06 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.14 | 0.15 |

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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52F | Client Smp ID: MS005-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8898 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 739.2 | 522.2 | 70.64 | 30-160 |
| \$ 2 Phenol-d5 | 739.2 | 608.9 | 82.37 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 739.2 | 500.6 | 67.72 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 492.8 | 295.1 | 59.88 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 492.8 | 314.9 | 63.89 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 492.8 | 338.0 | 68.59 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 739.2 | 565.8 | 76.54 | 30-160 |
| \$ 66 Terphenyl-d14 | 492.8 | 347.1 | 70.43 | 30-160 |

Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Sample Info: UU52F,3

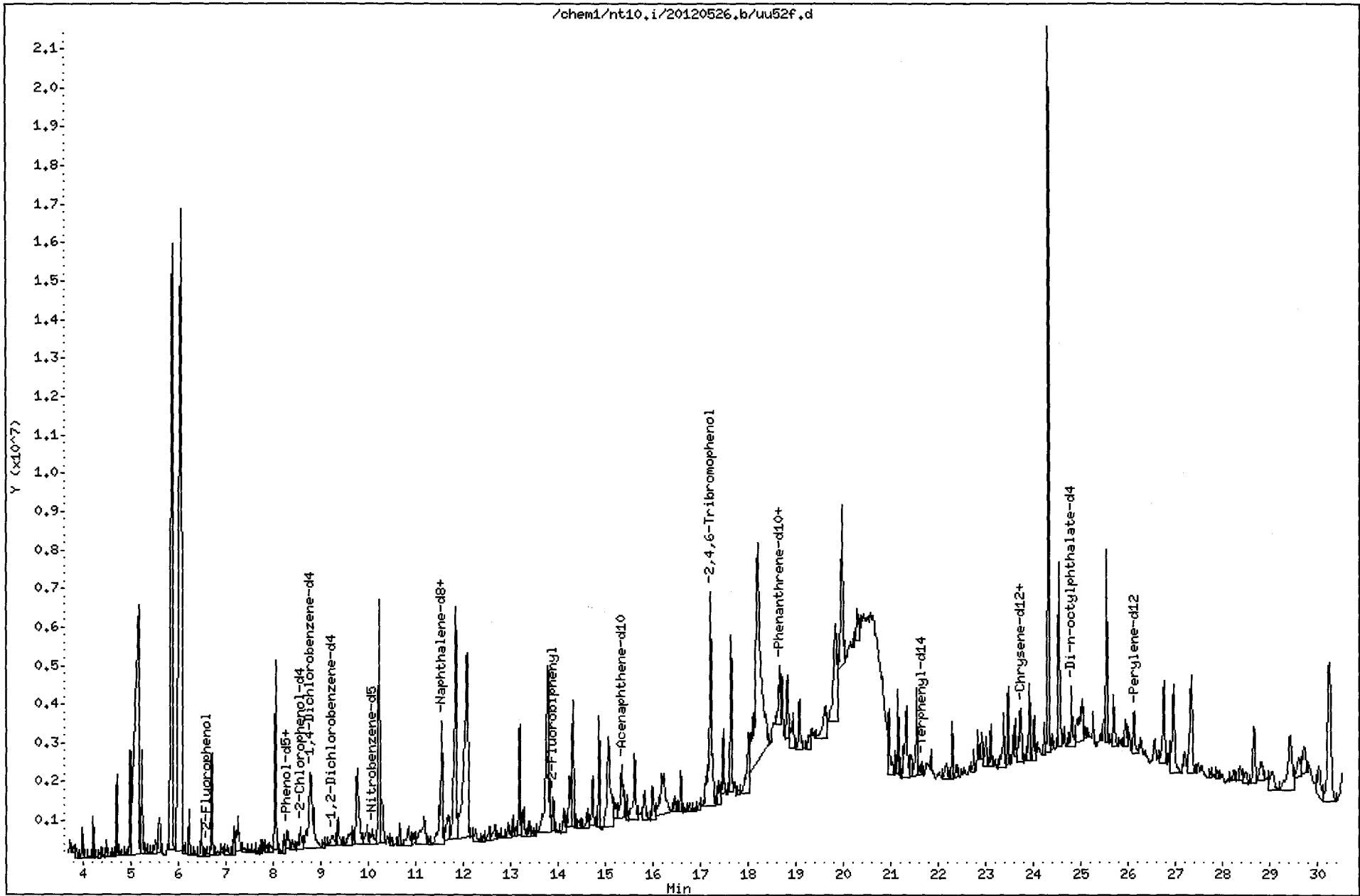
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0.25



UU52:00869

Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

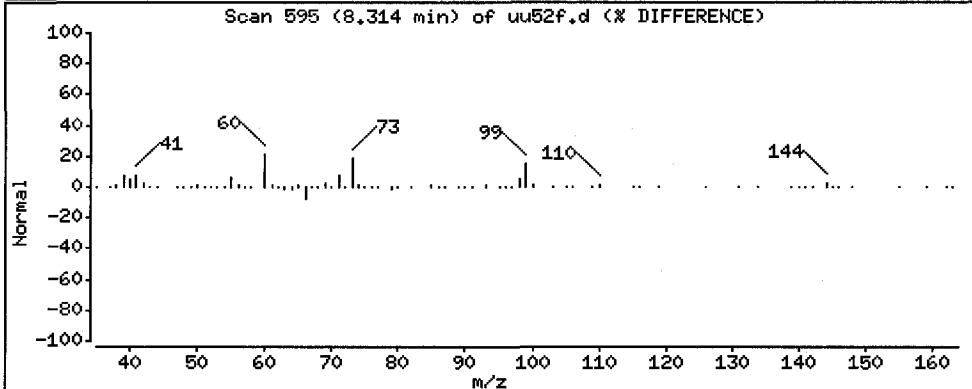
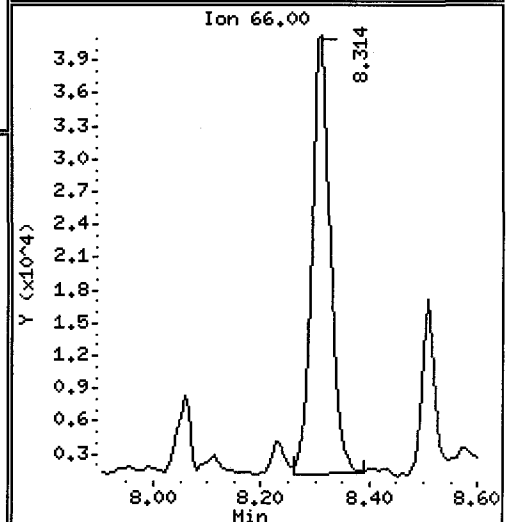
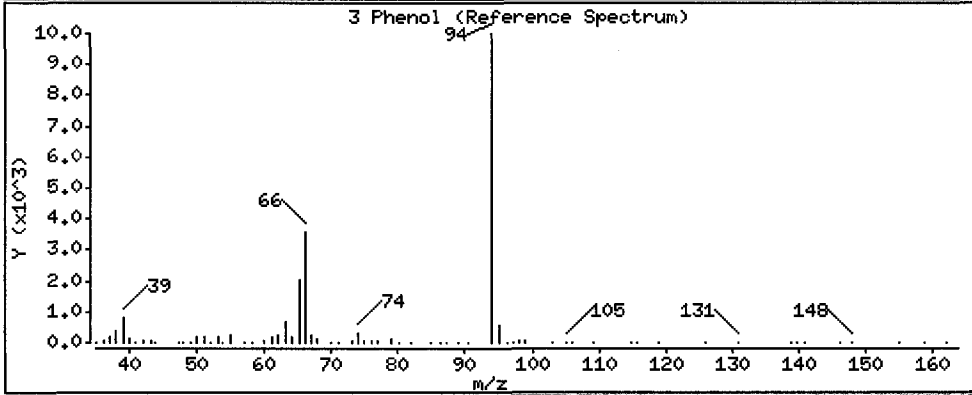
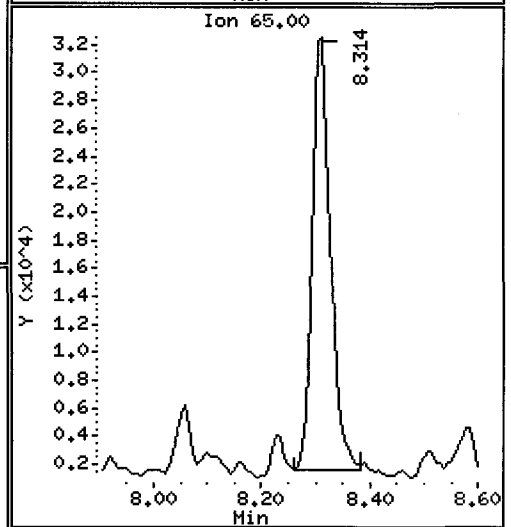
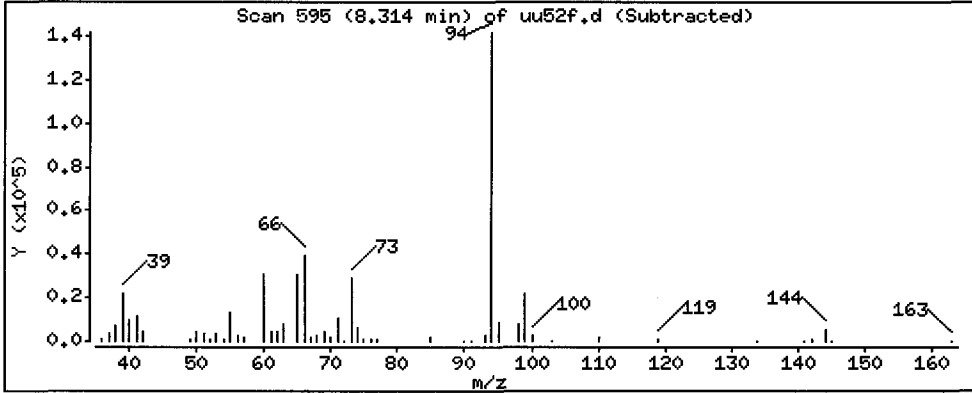
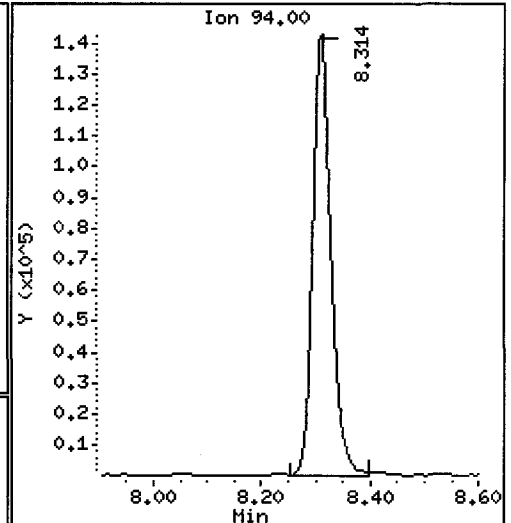
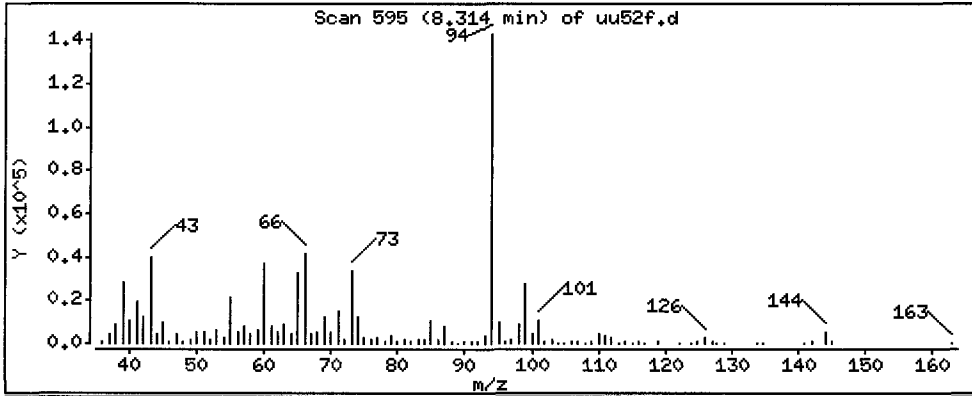
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1078 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

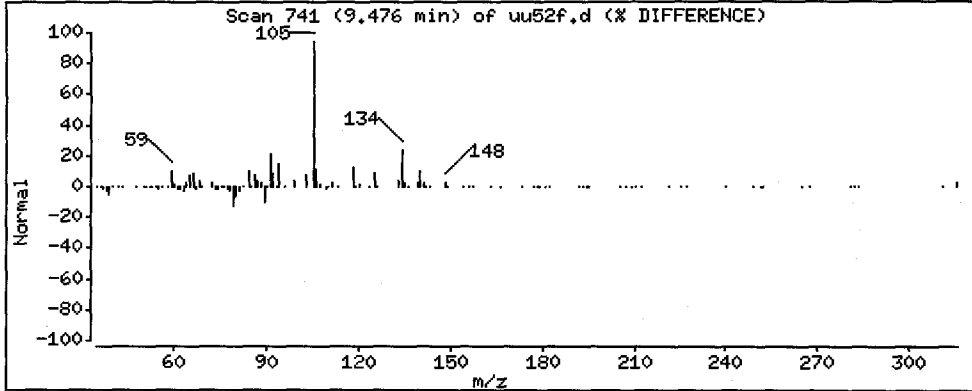
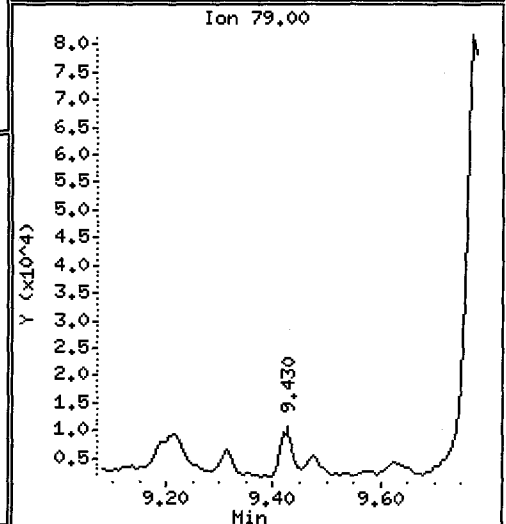
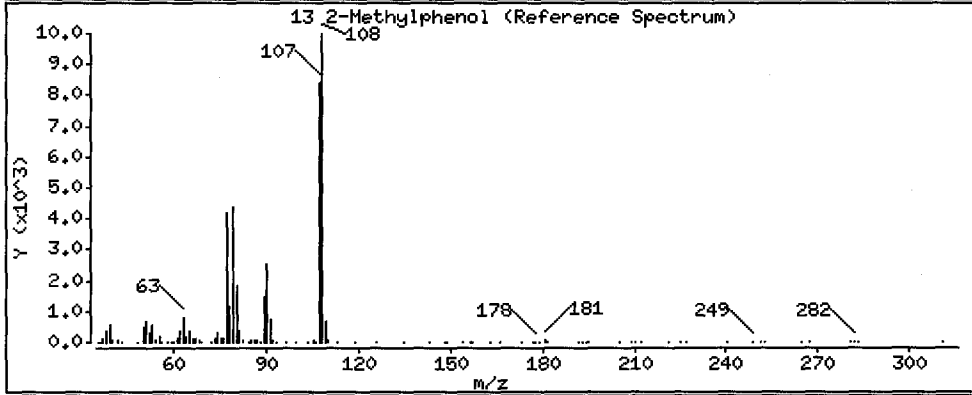
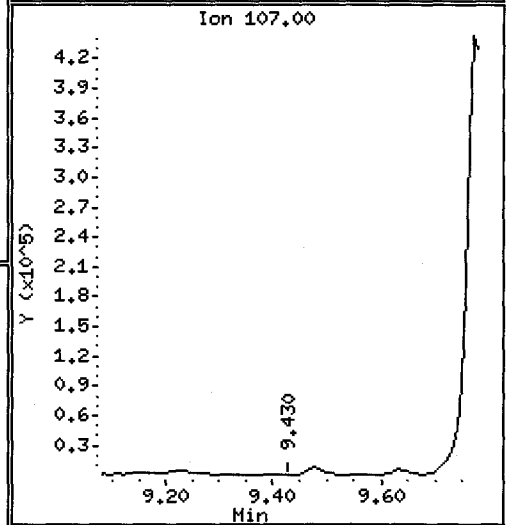
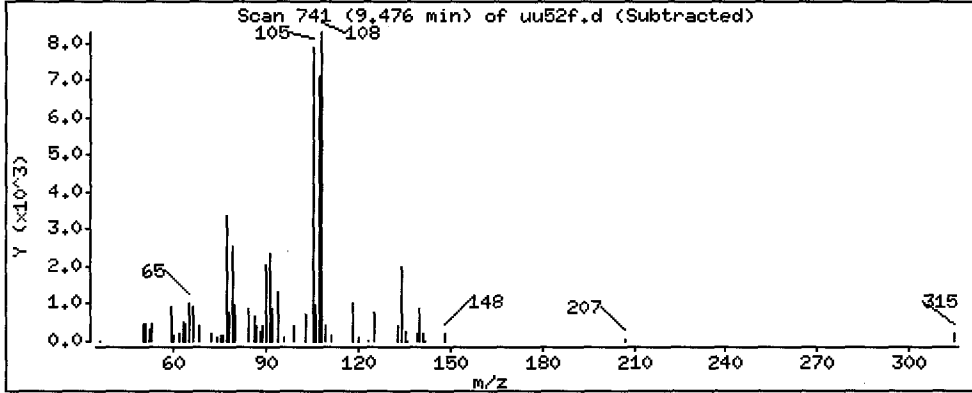
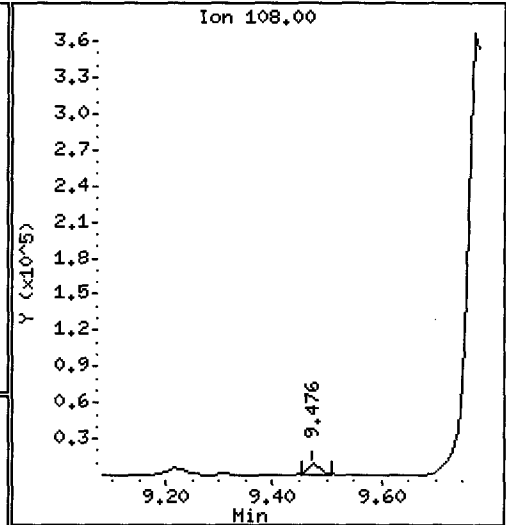
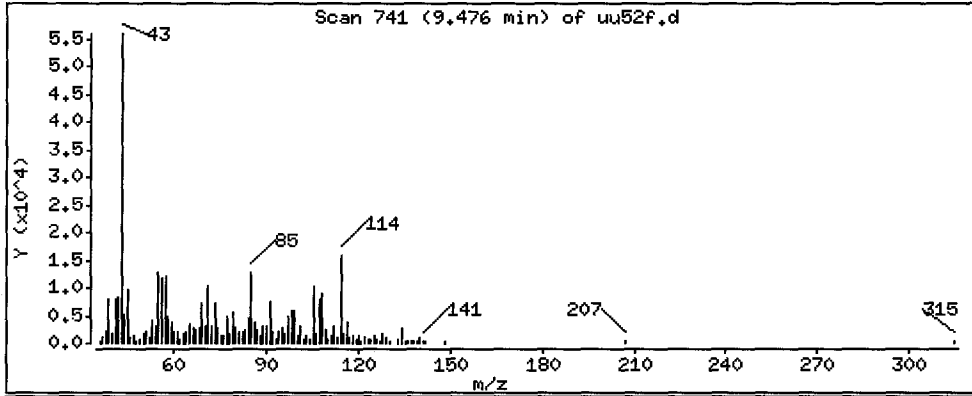
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 65.77 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

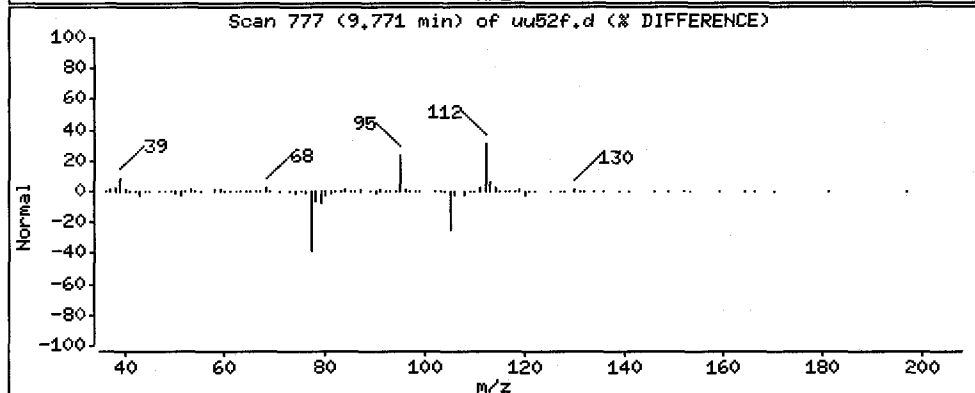
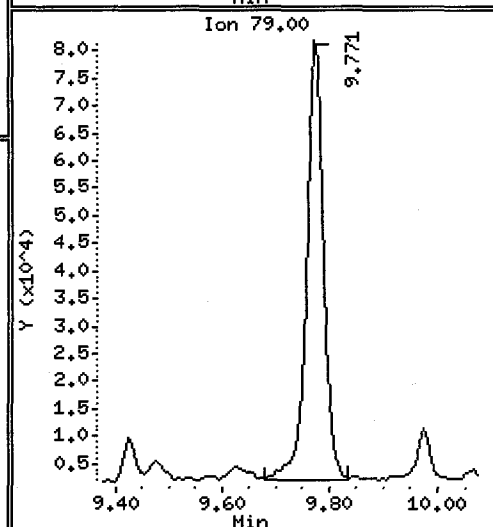
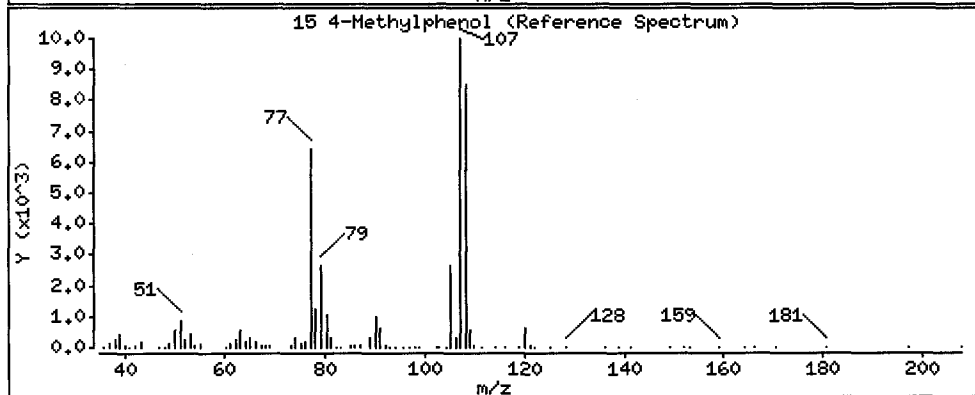
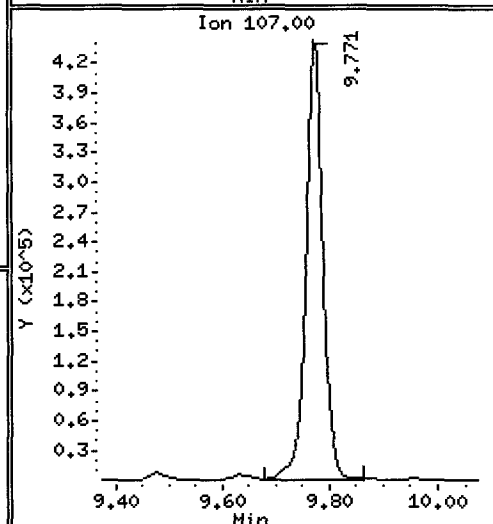
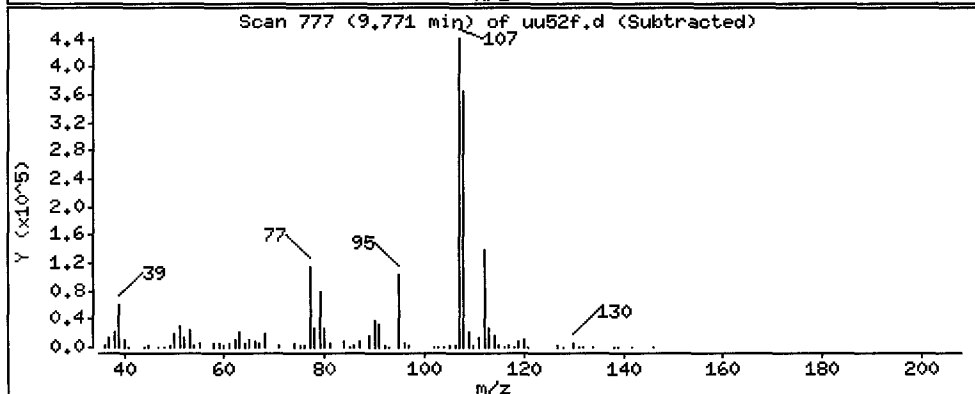
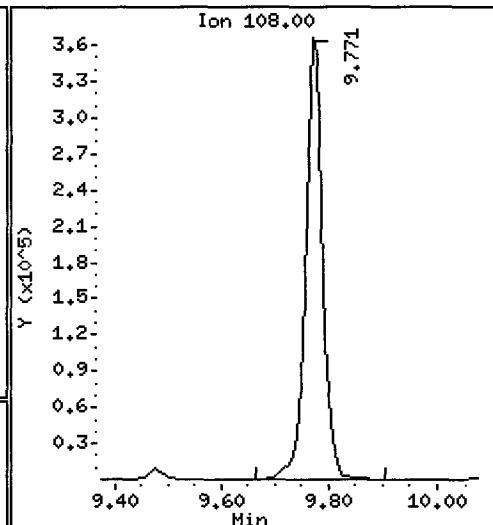
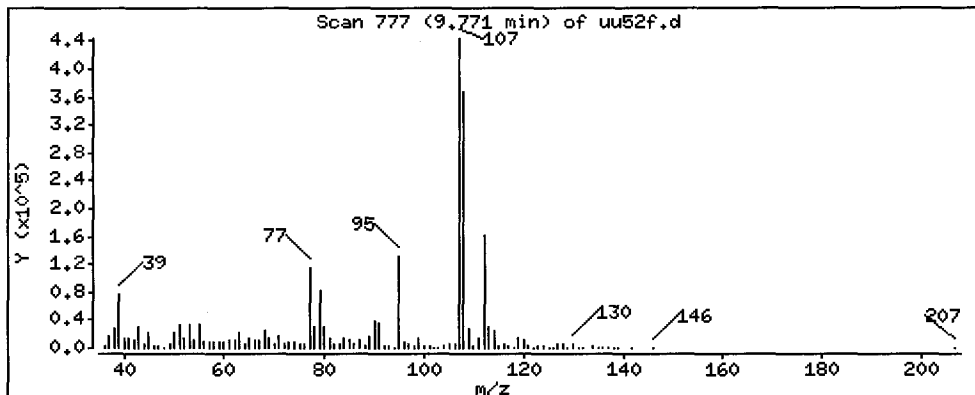
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 3307 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

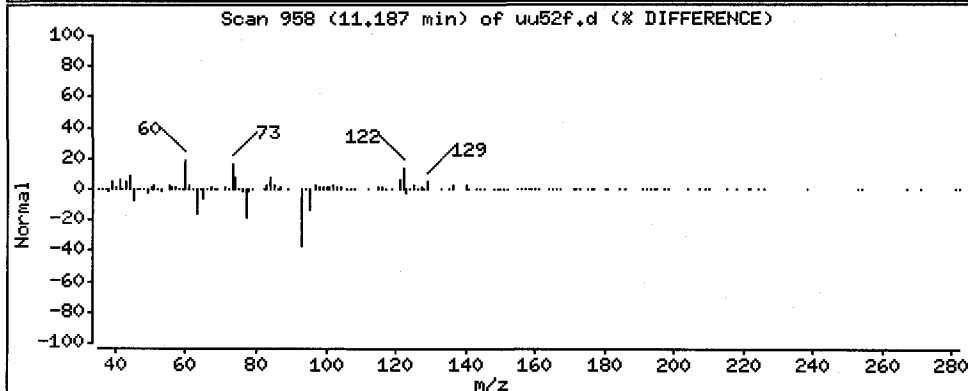
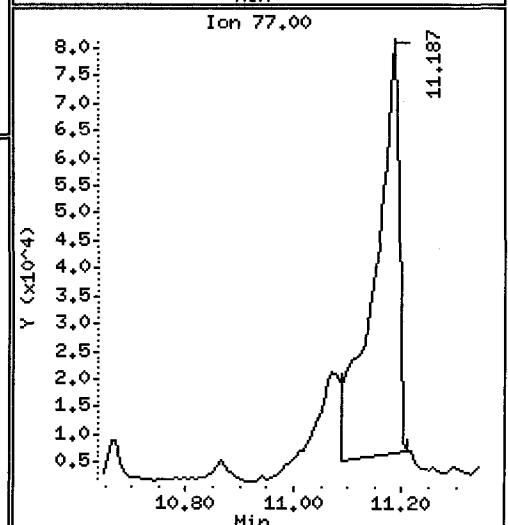
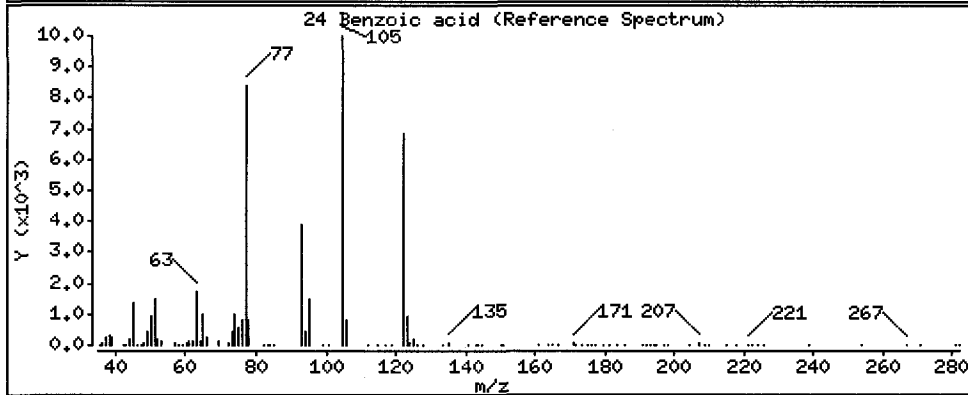
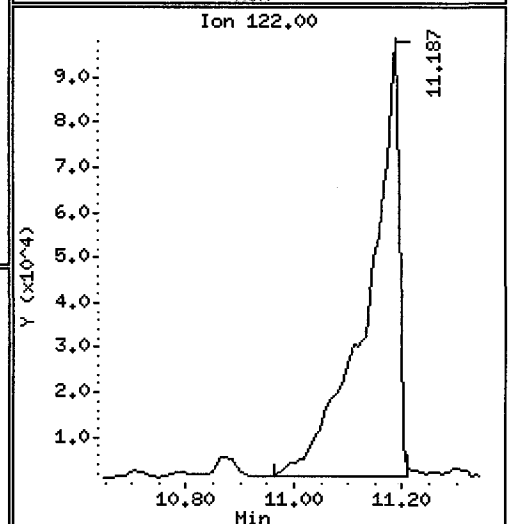
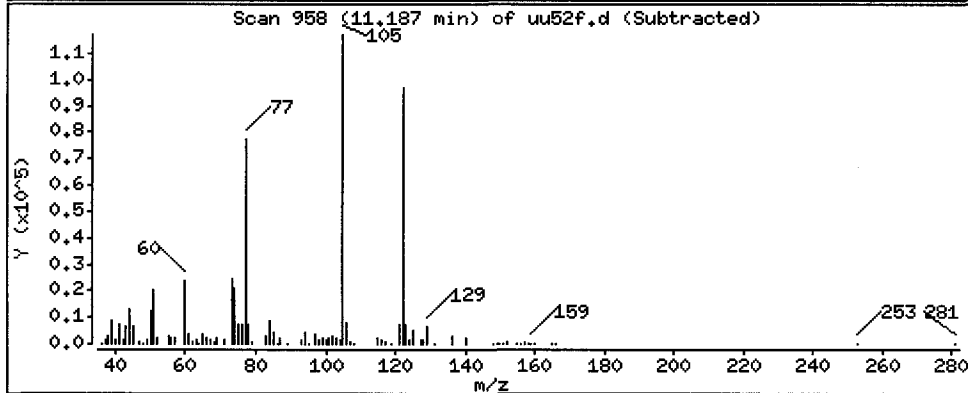
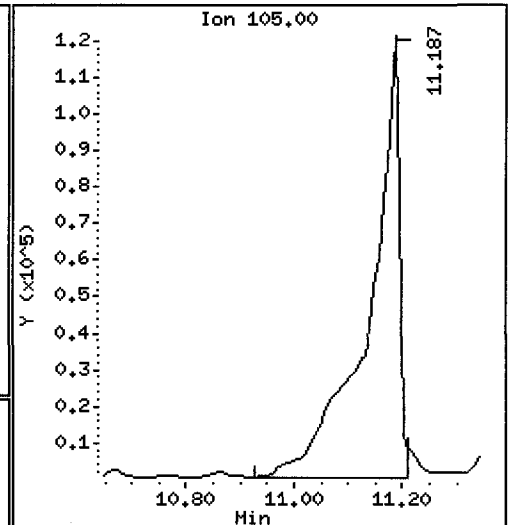
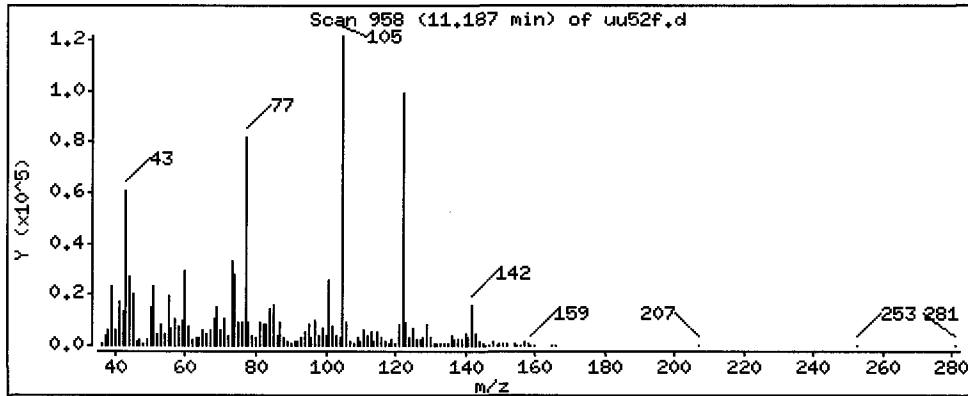
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 3137 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

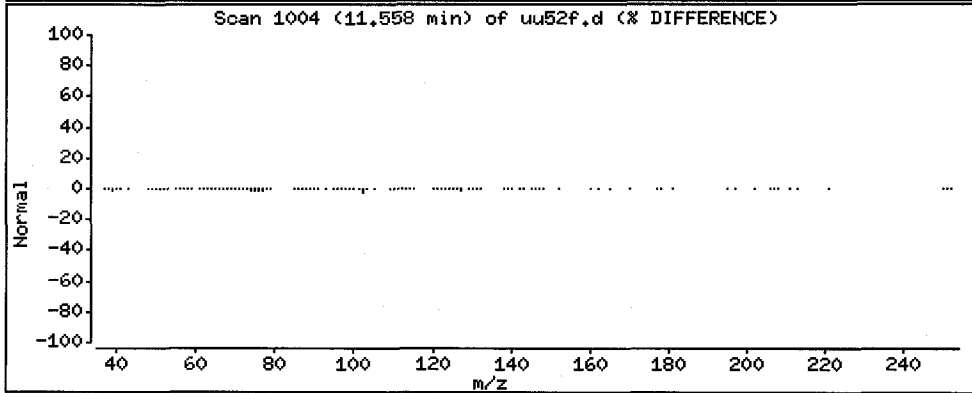
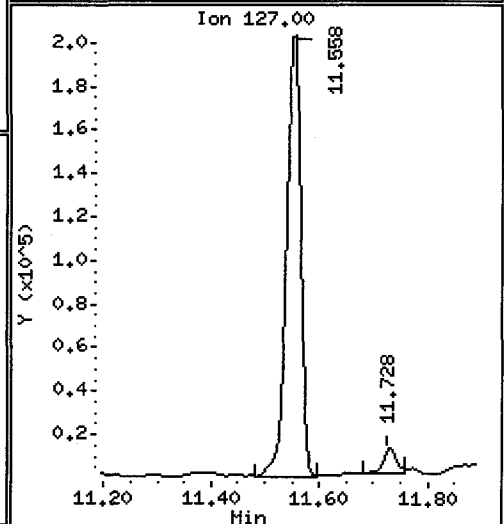
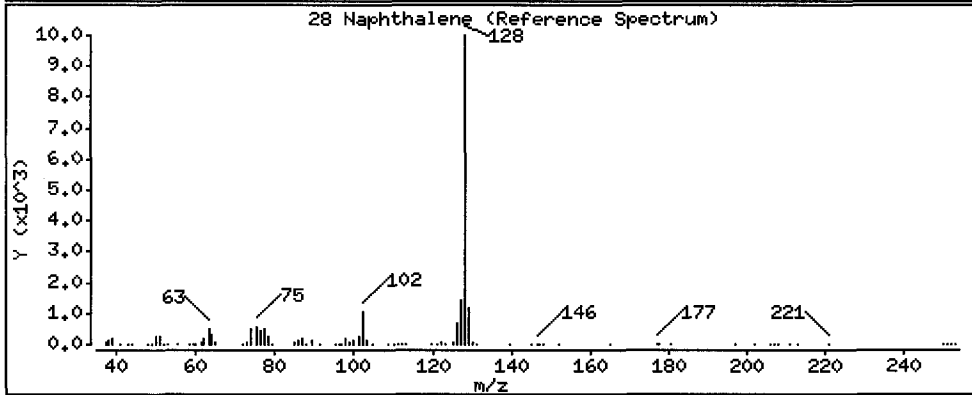
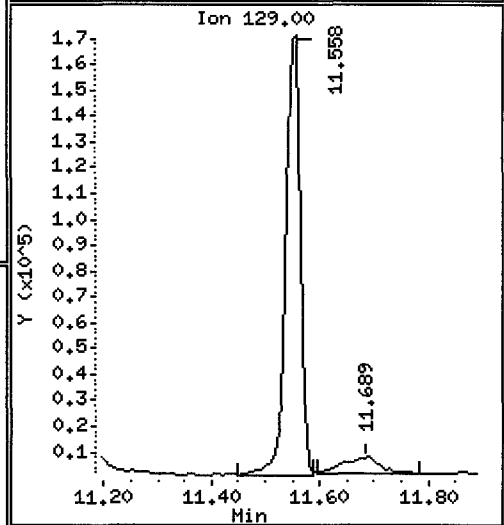
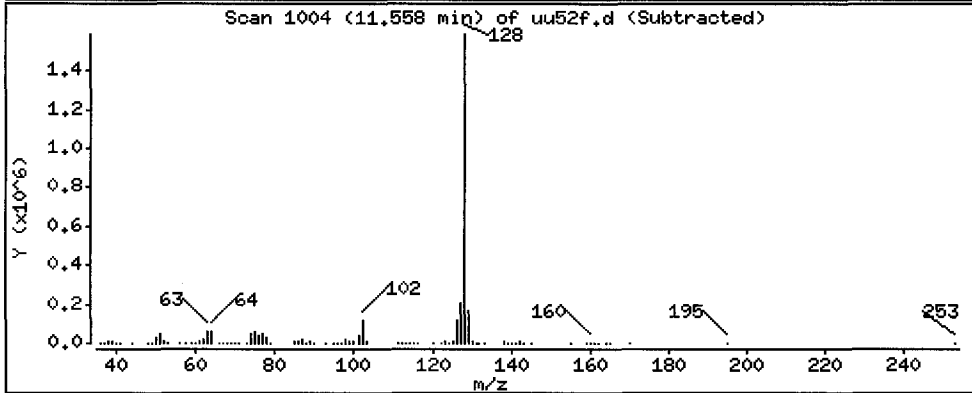
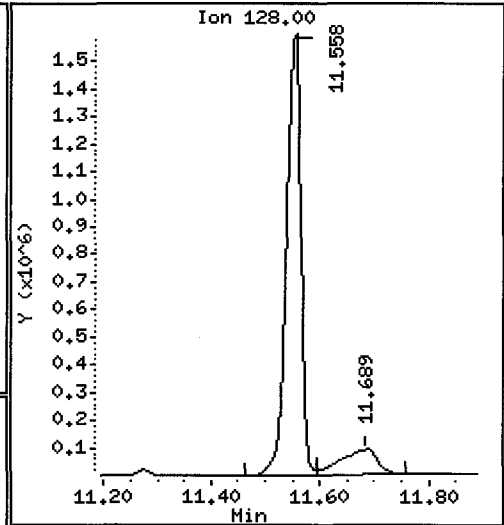
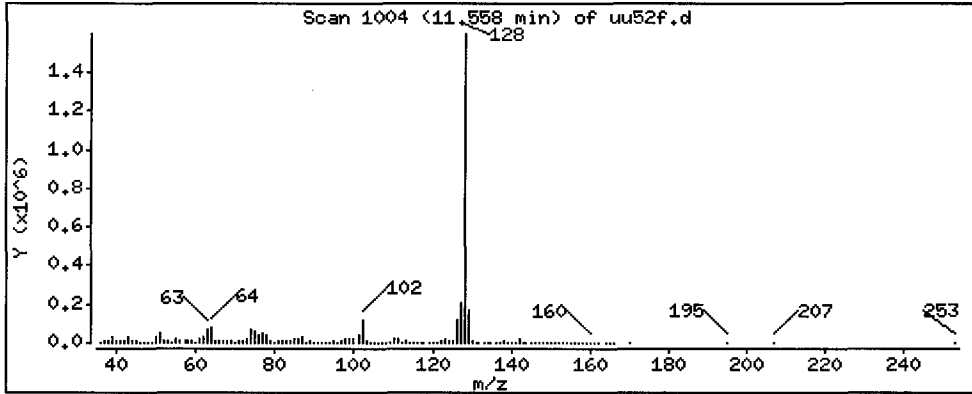
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 4424 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

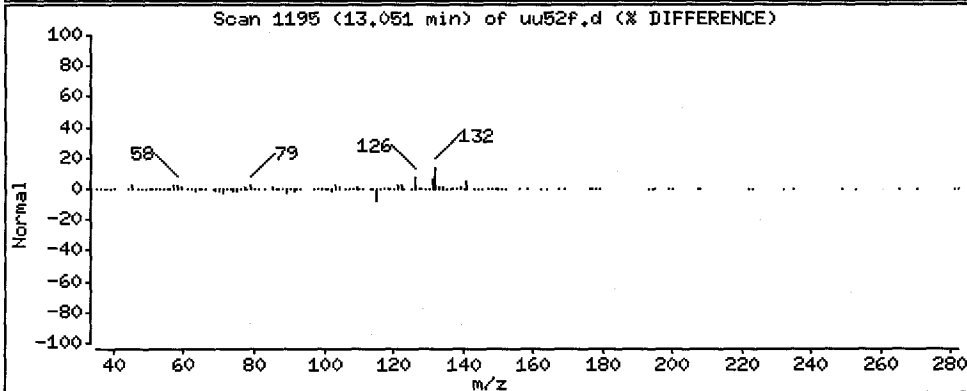
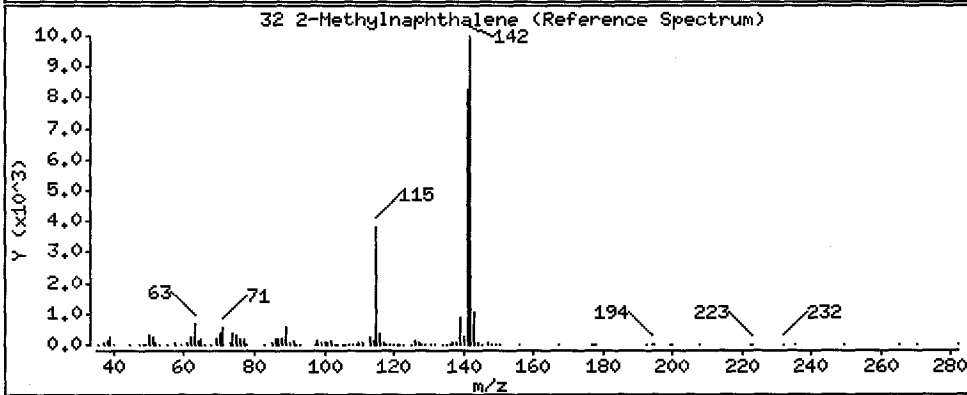
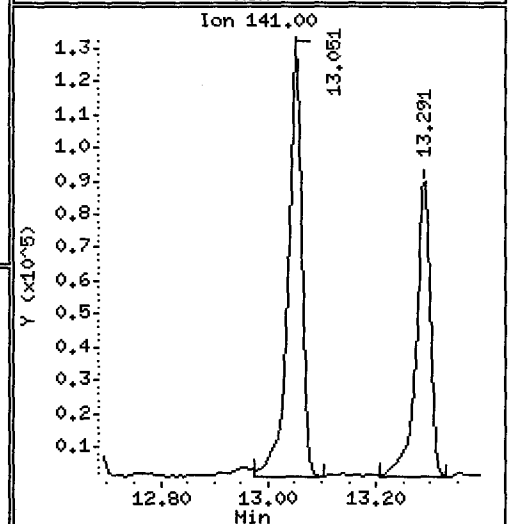
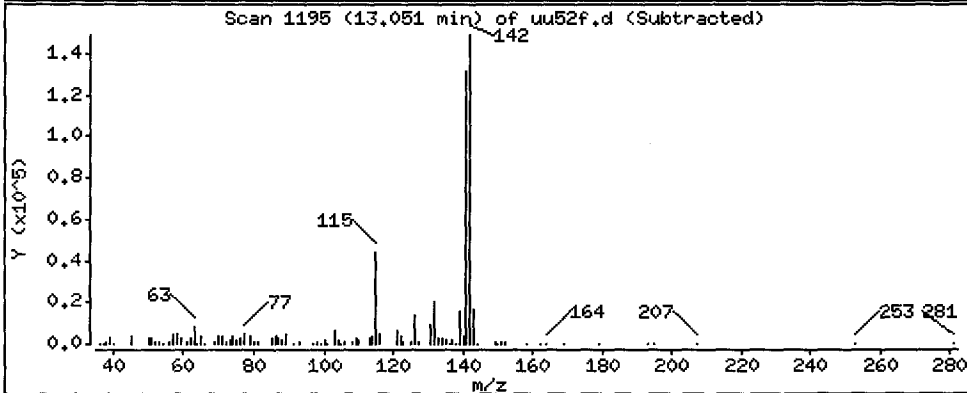
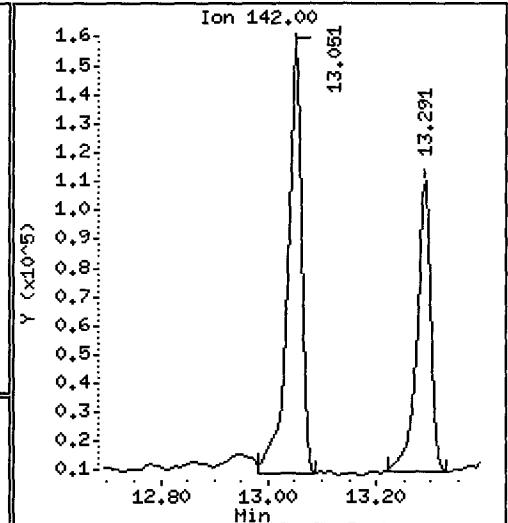
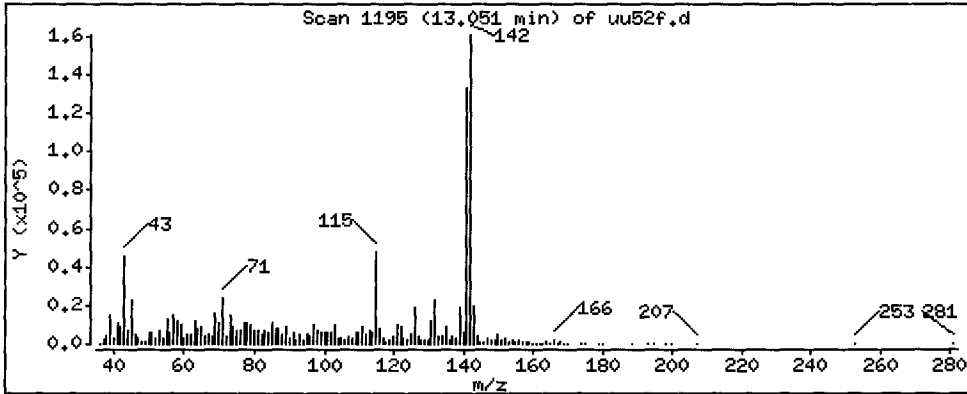
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 598.9 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

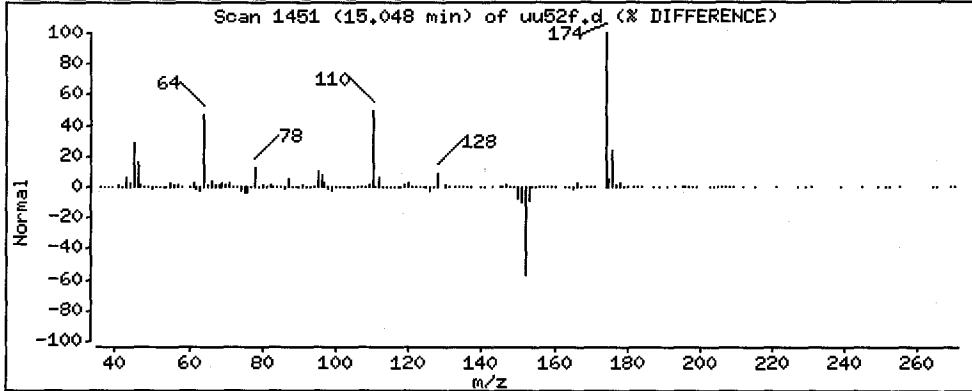
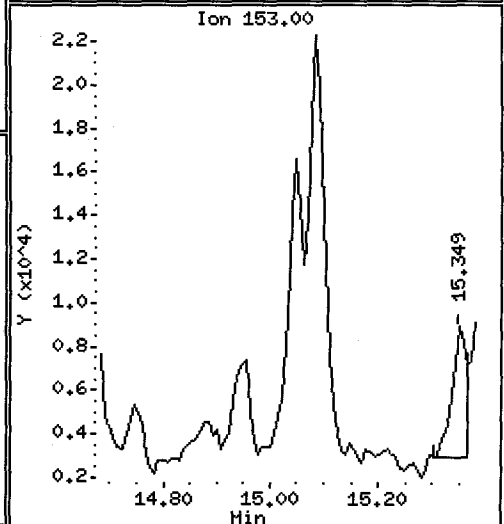
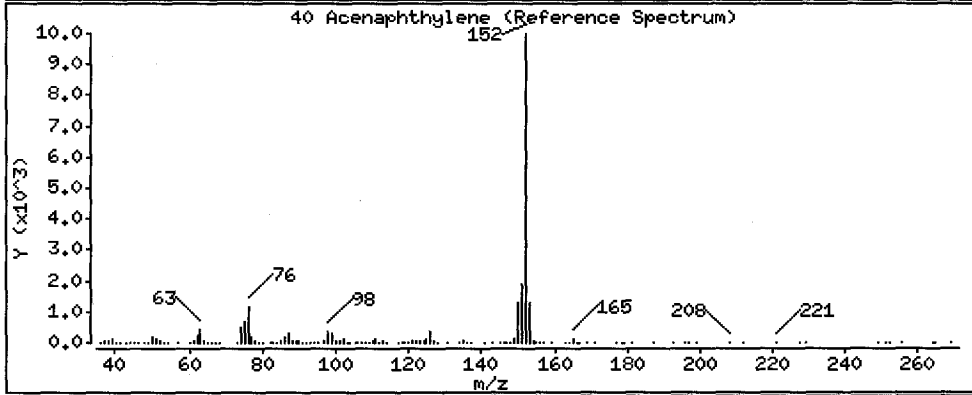
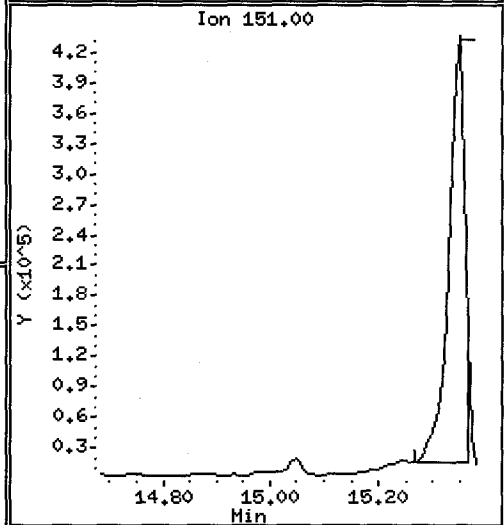
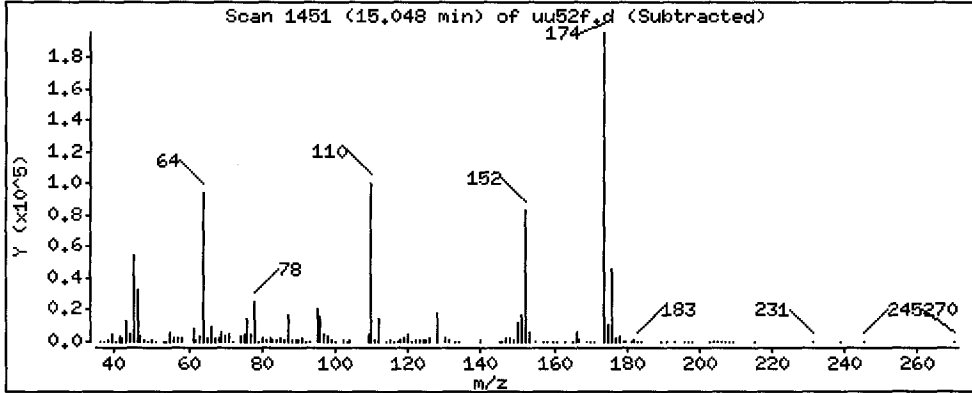
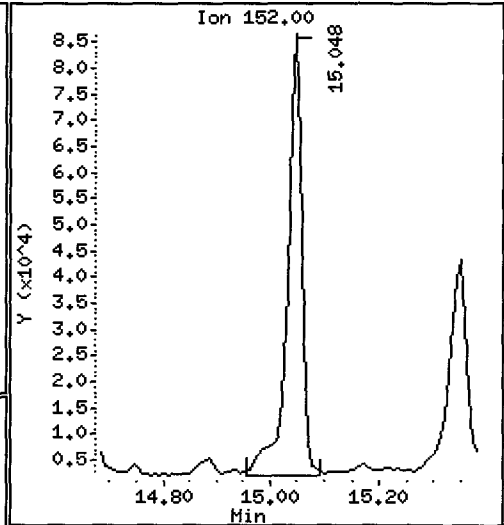
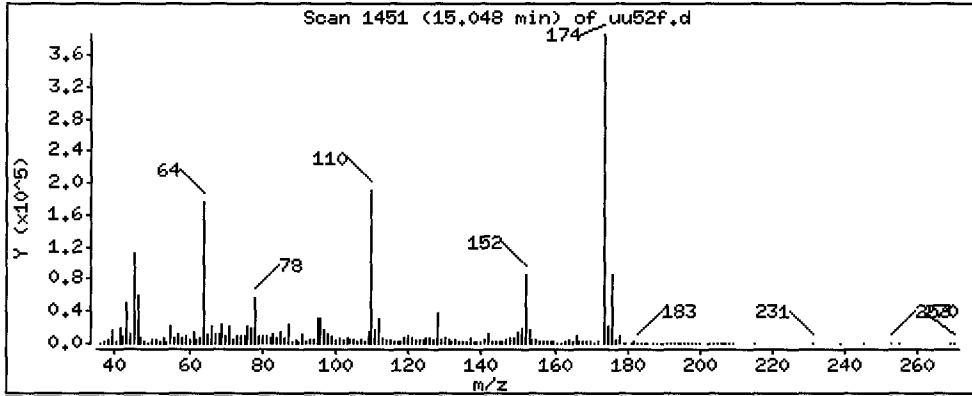
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 251.2 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

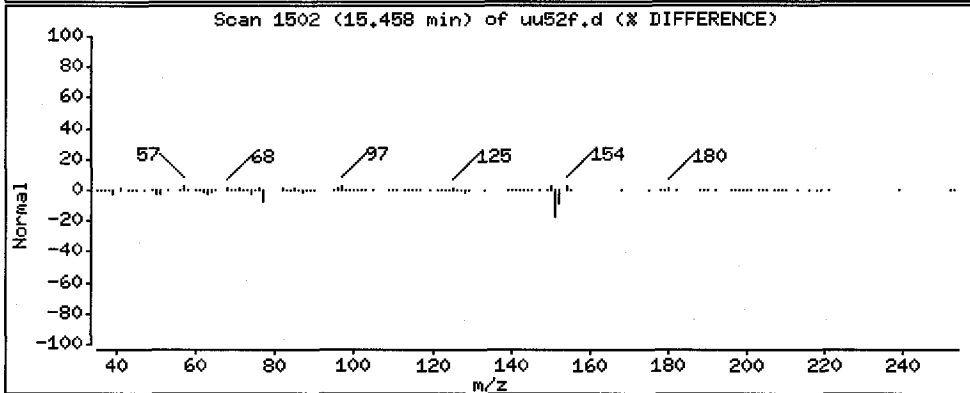
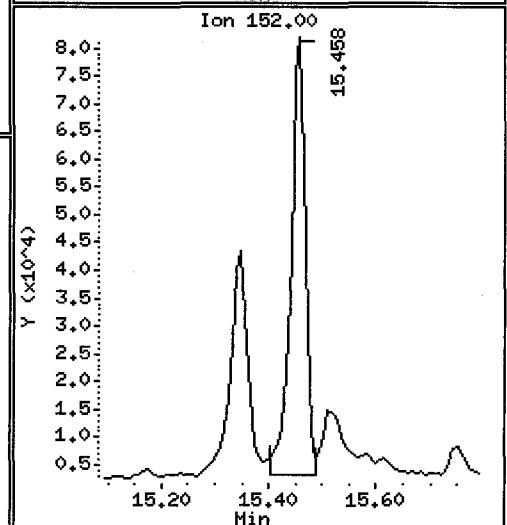
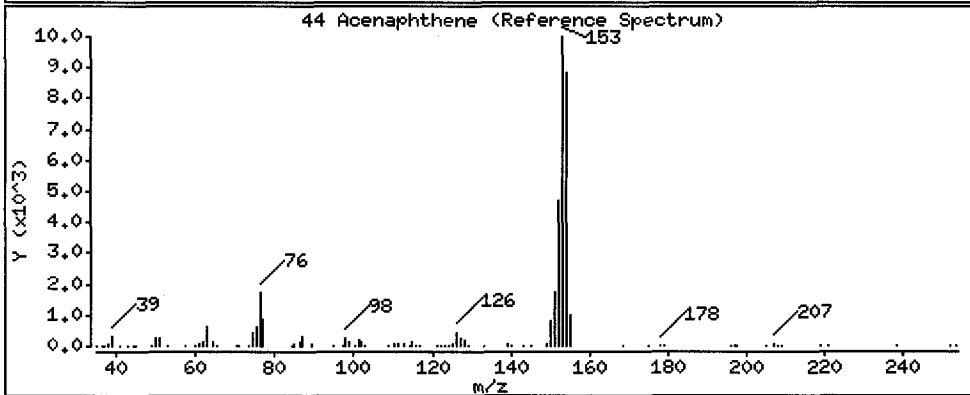
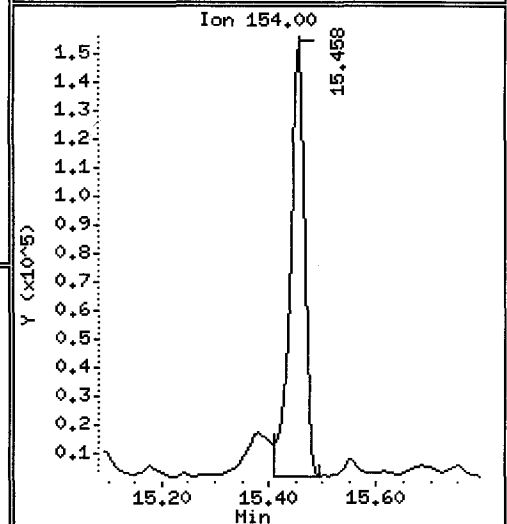
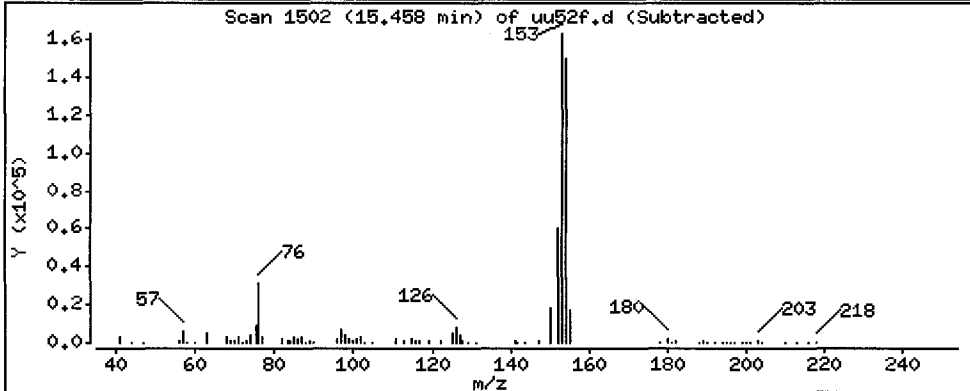
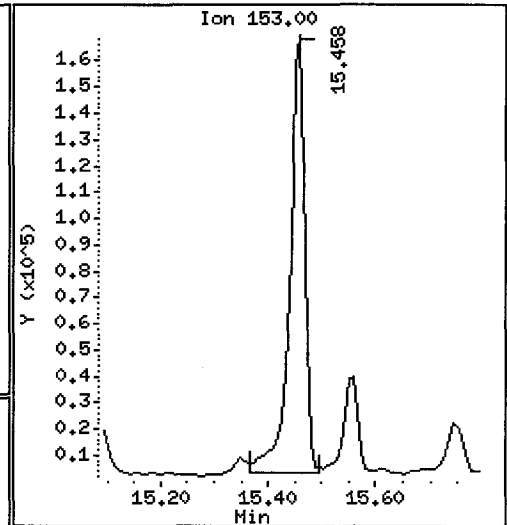
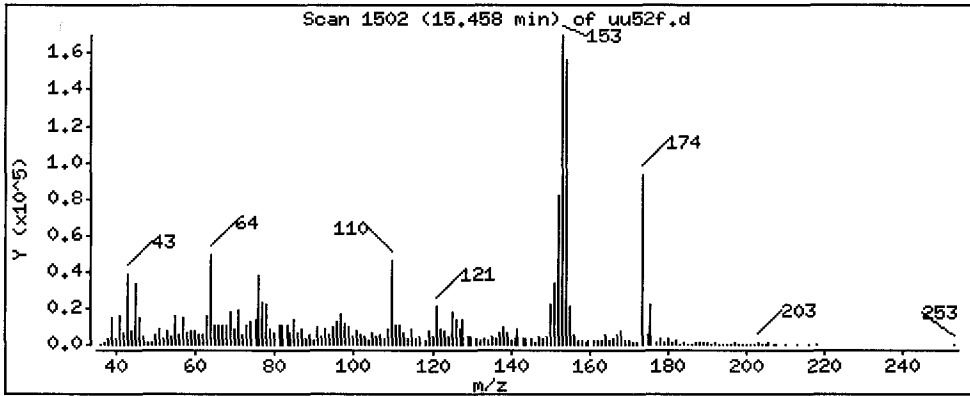
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 821.8 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

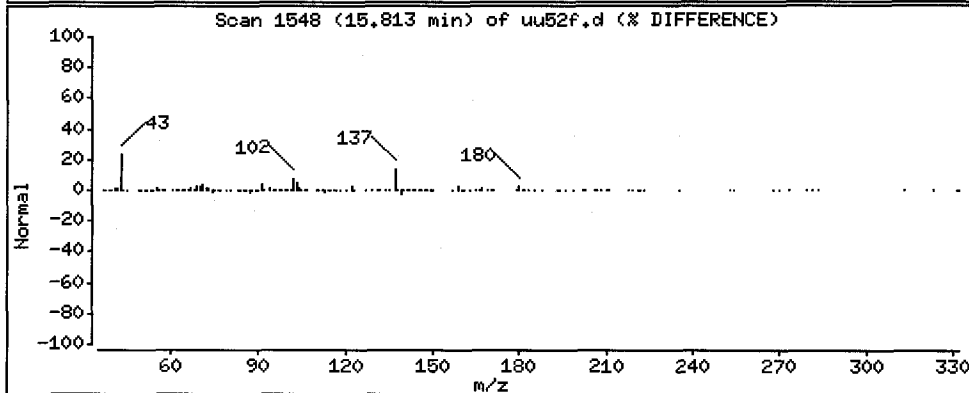
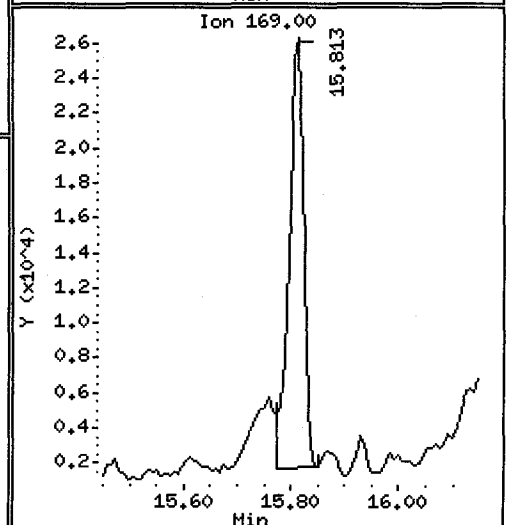
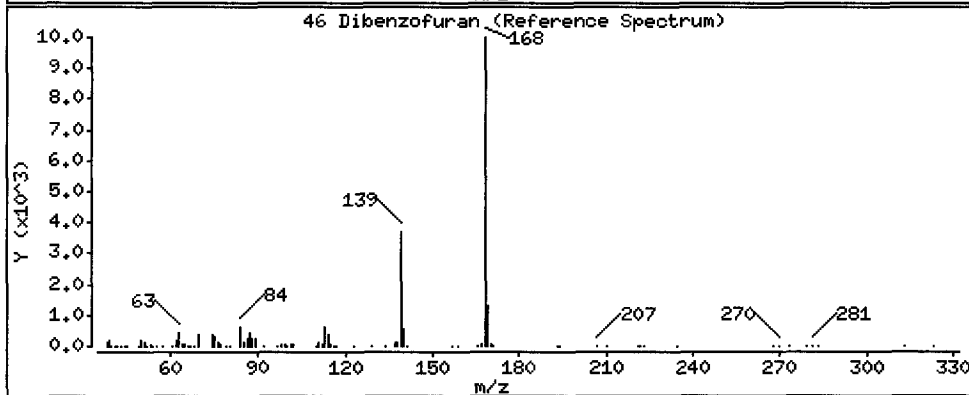
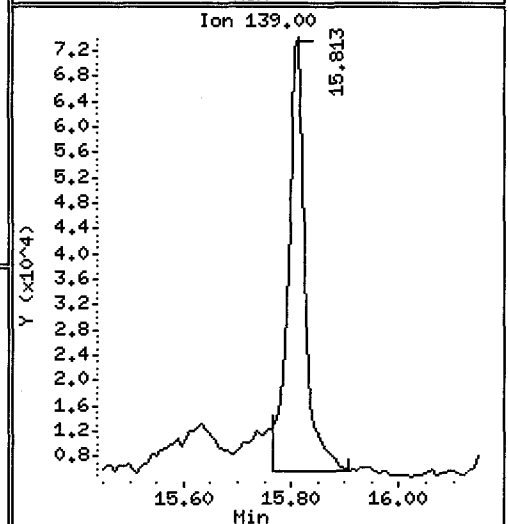
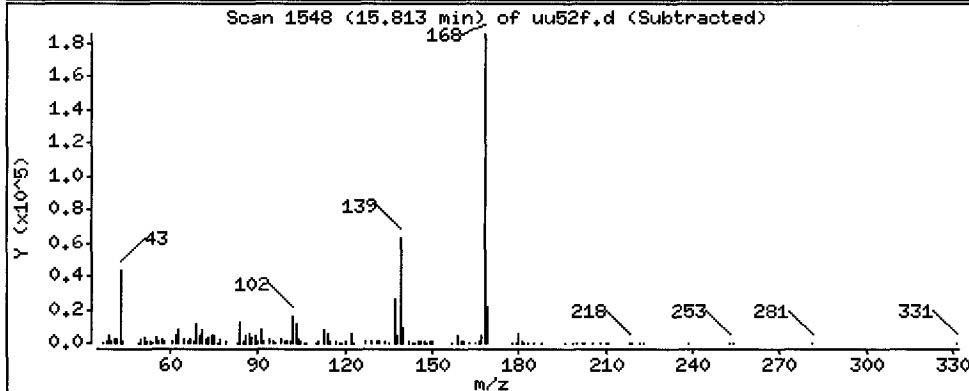
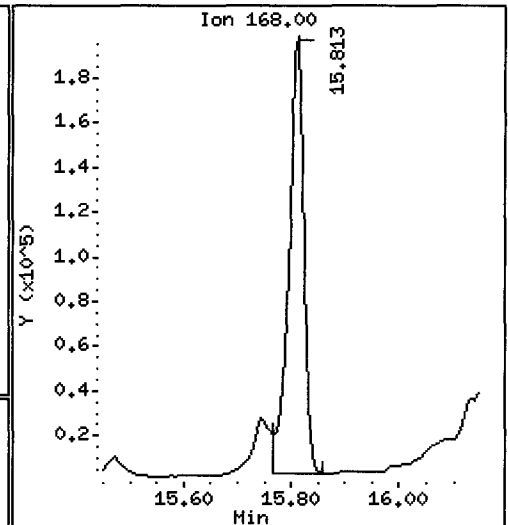
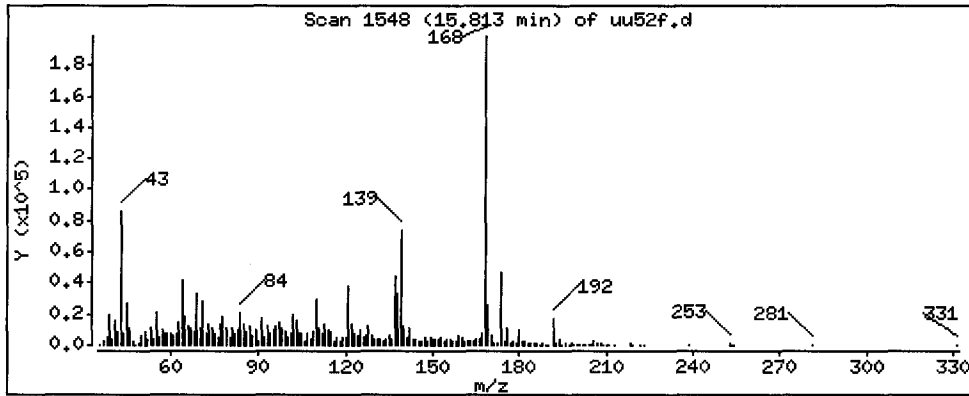
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 660.4 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

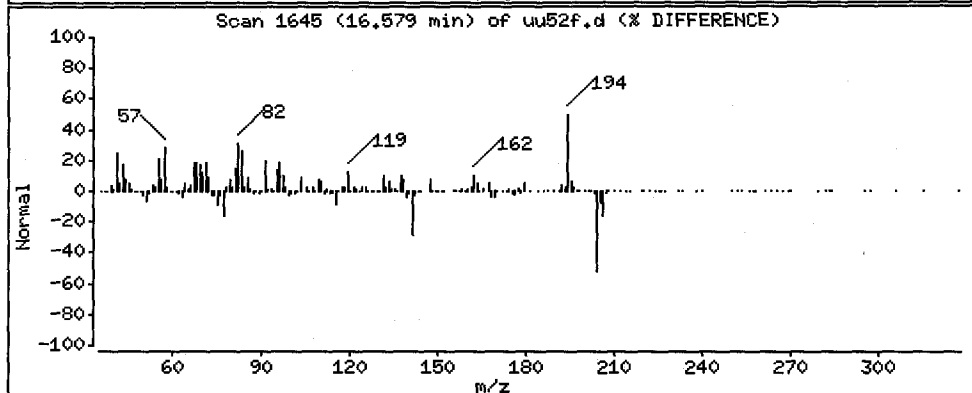
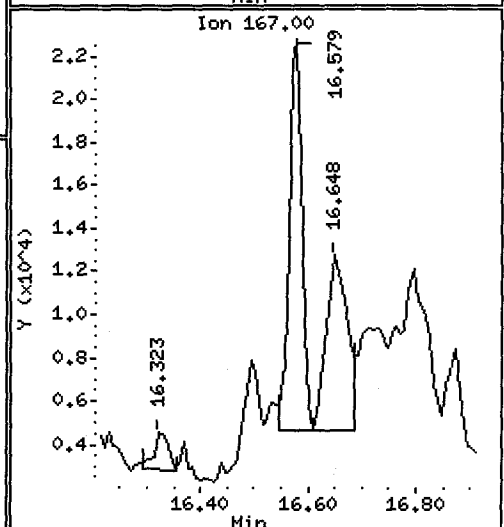
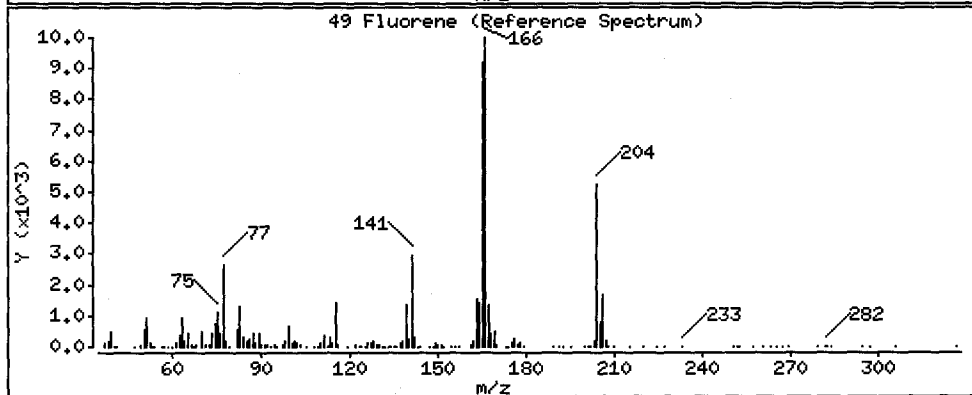
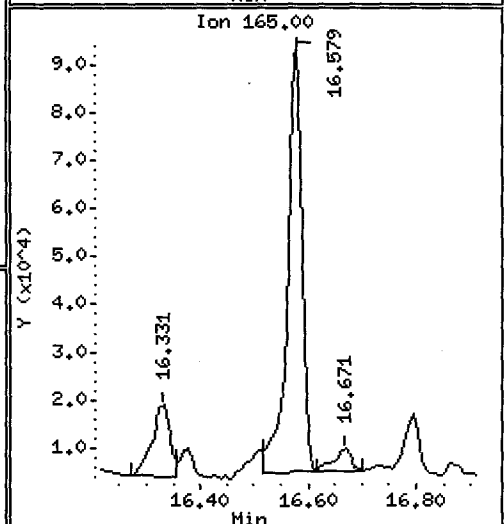
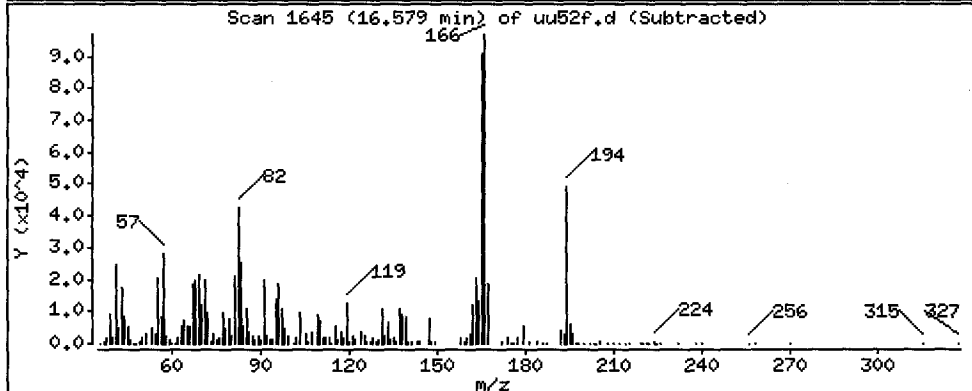
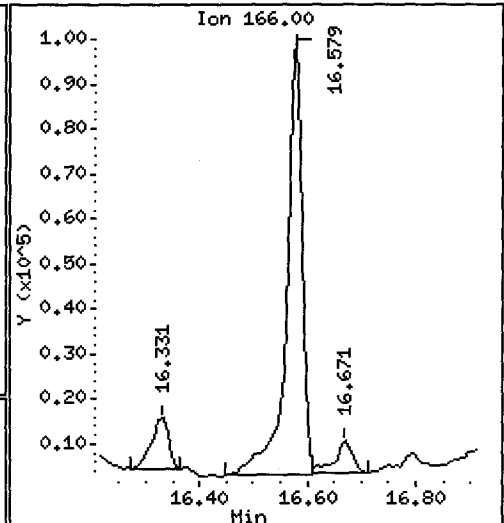
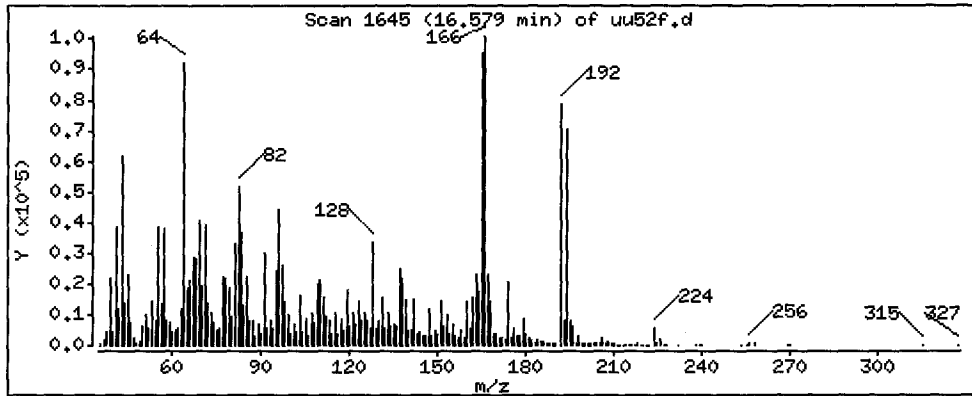
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 452.5 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

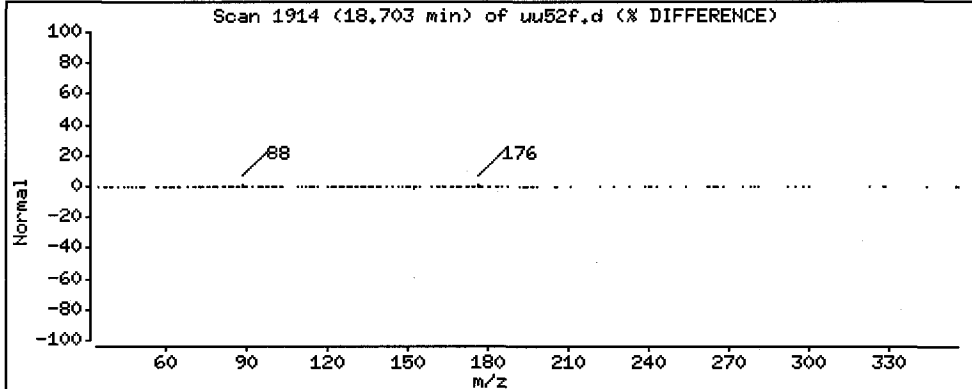
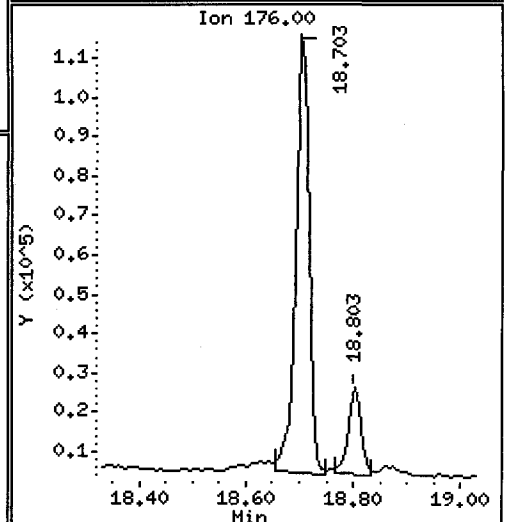
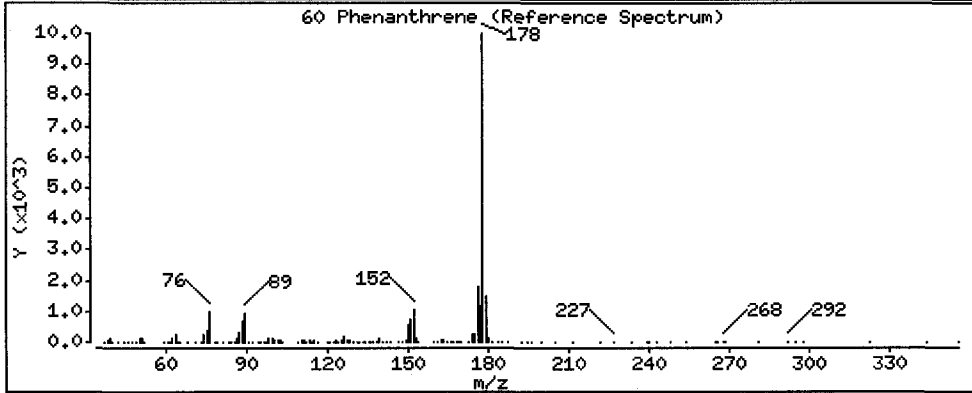
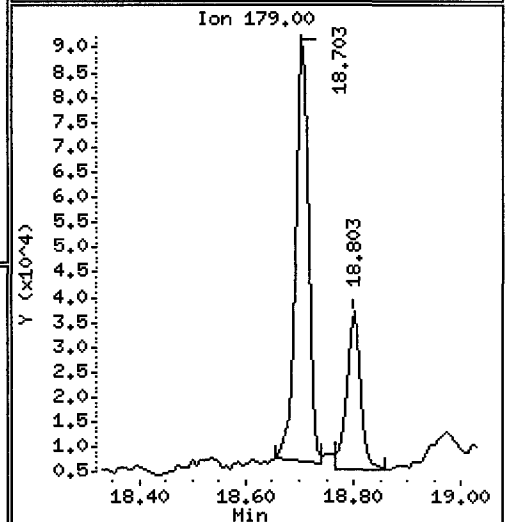
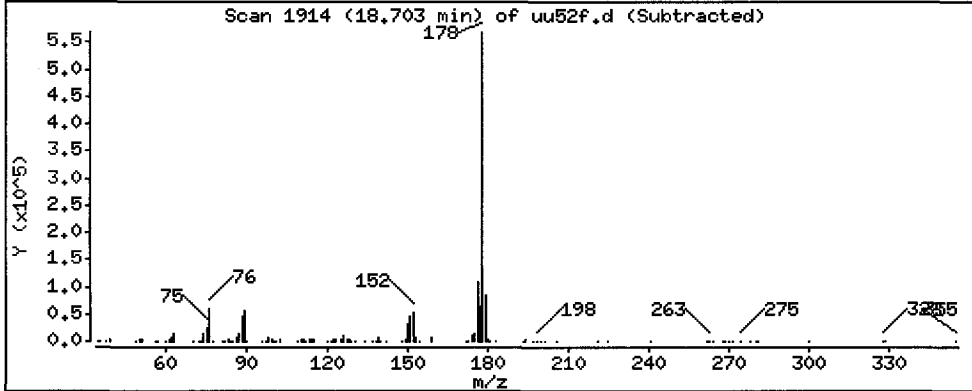
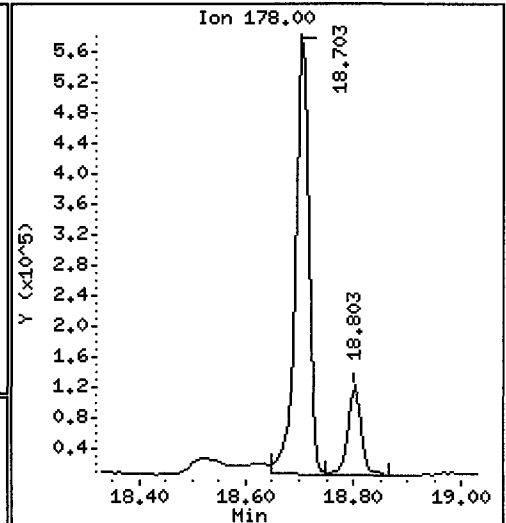
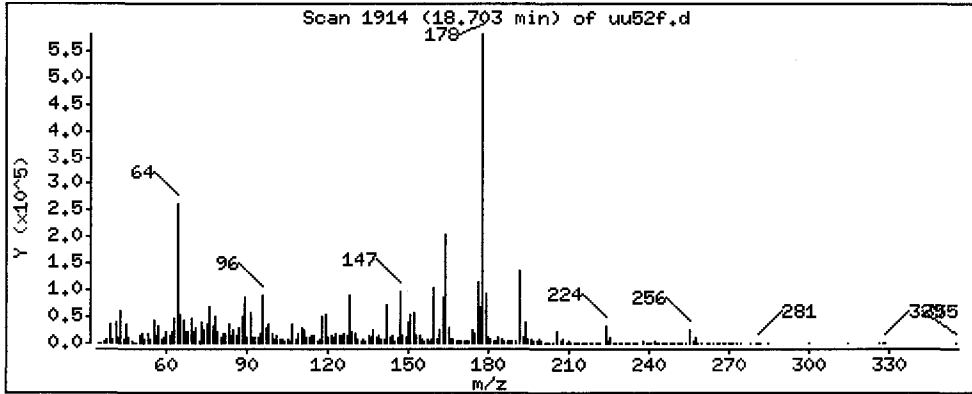
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 1824 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

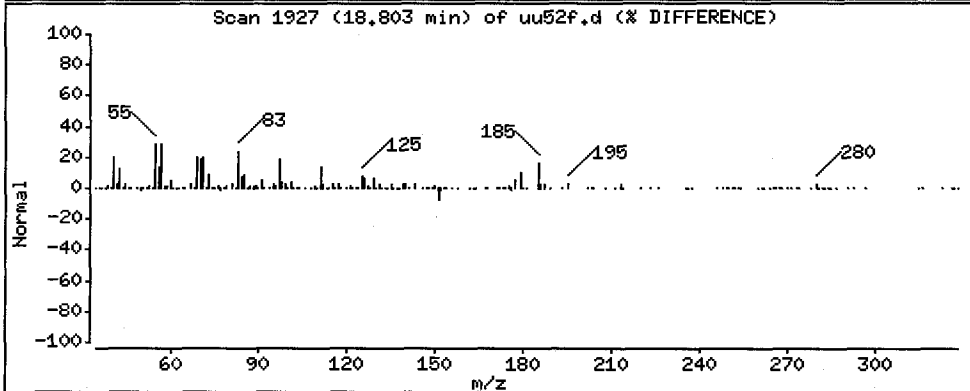
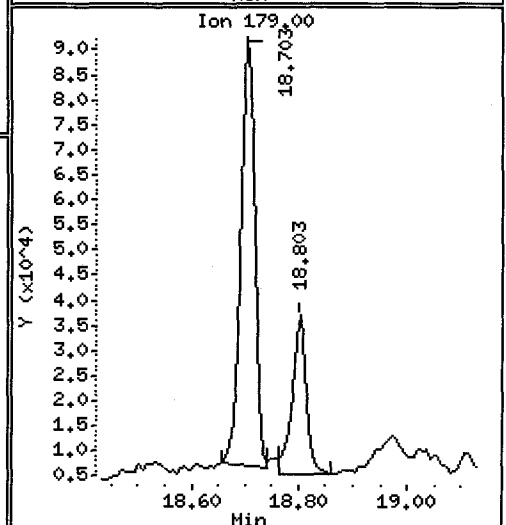
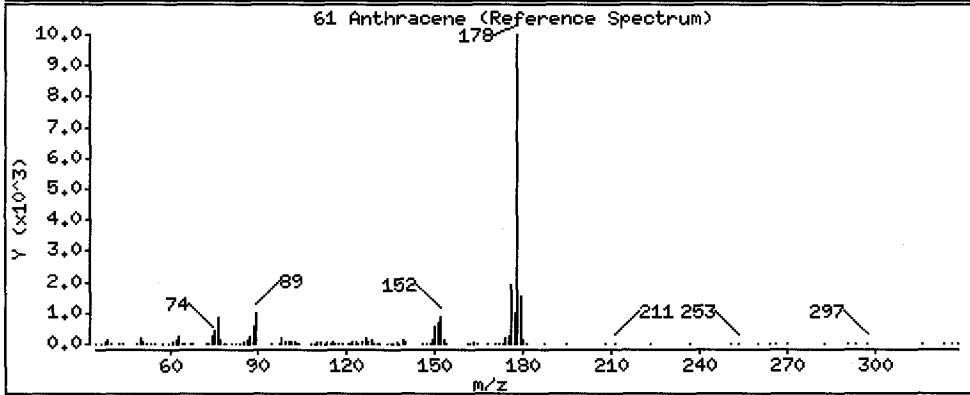
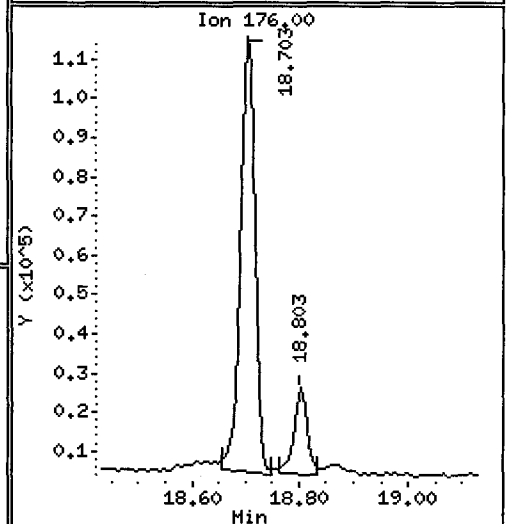
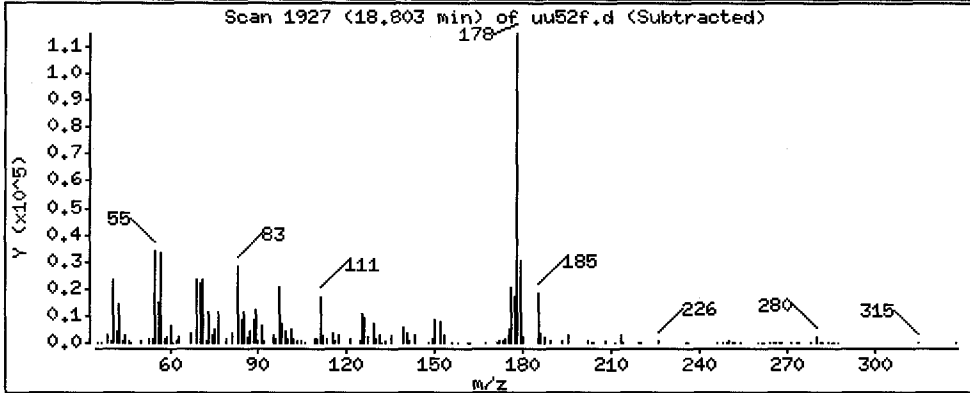
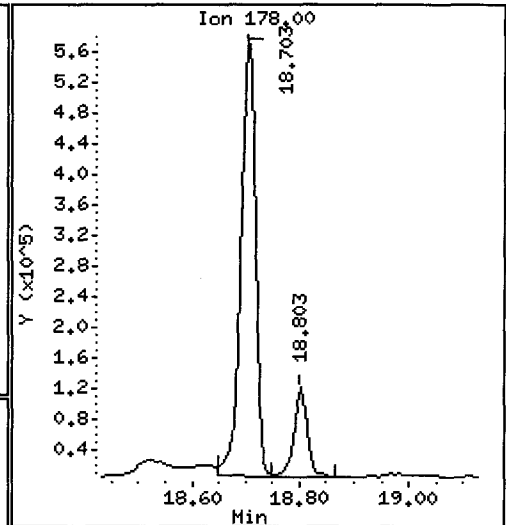
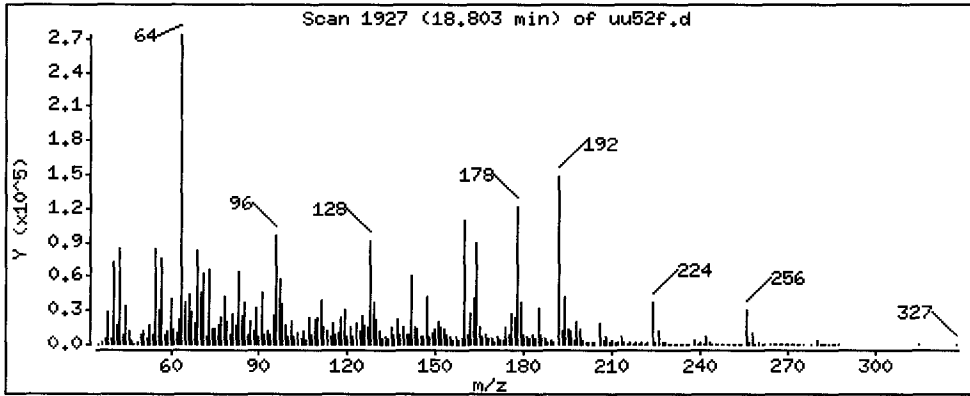
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 349.0 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

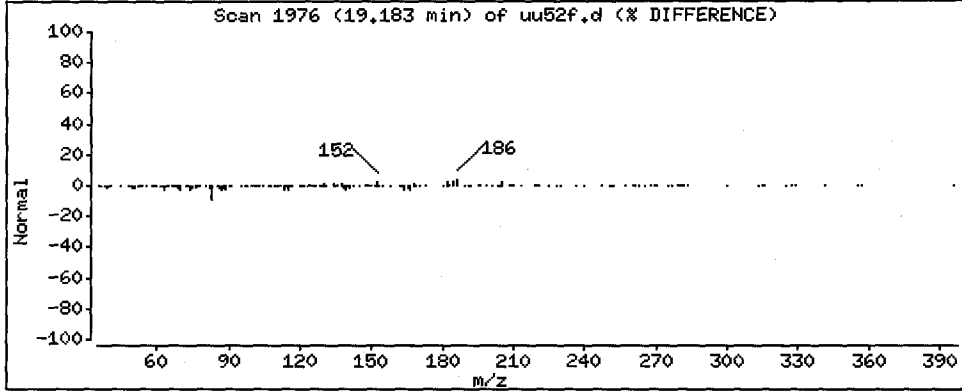
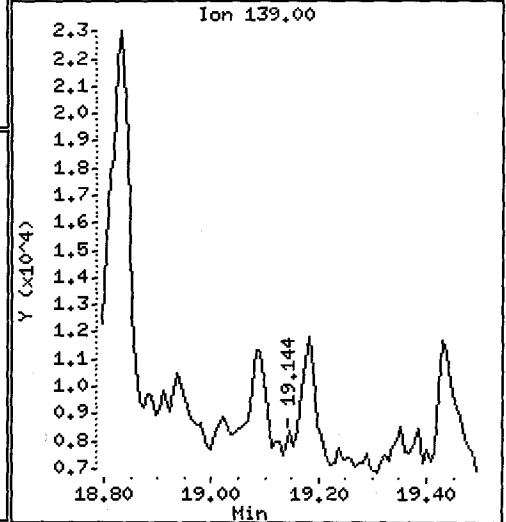
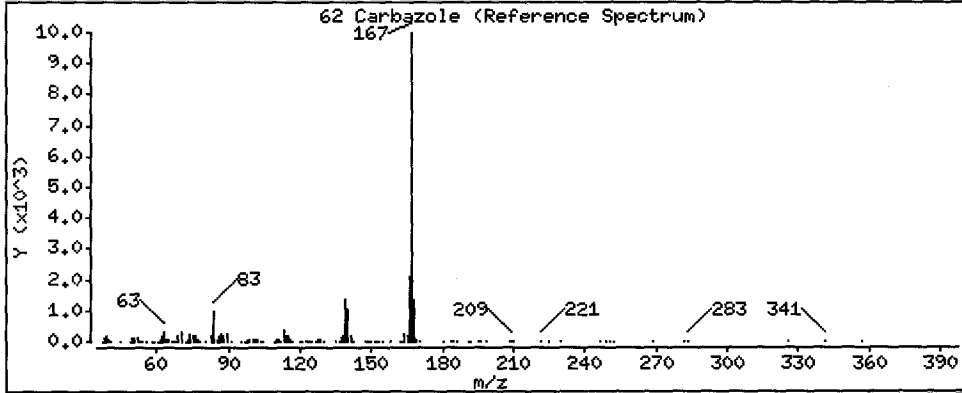
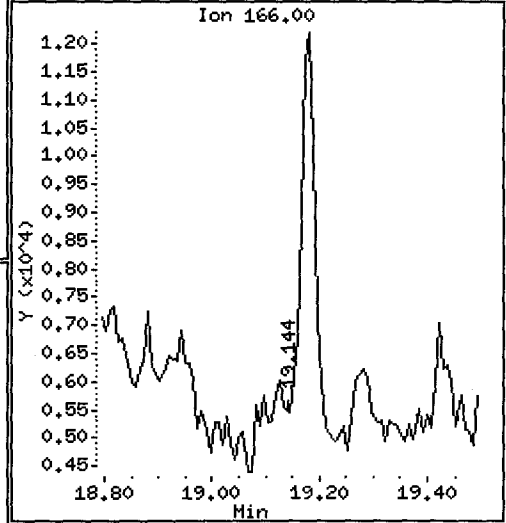
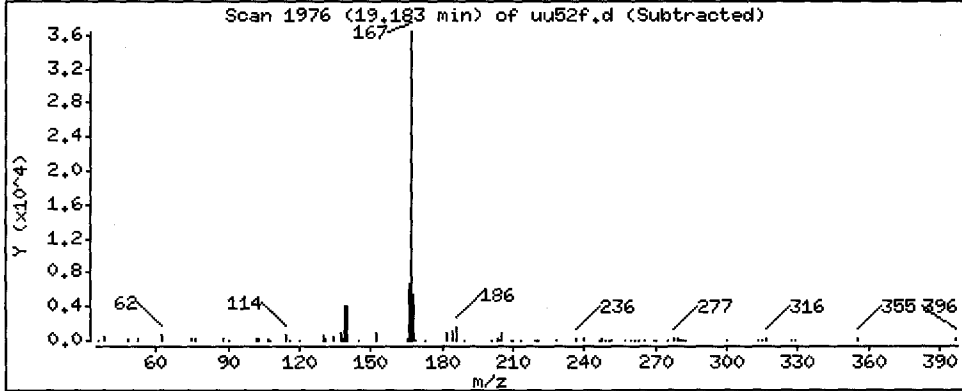
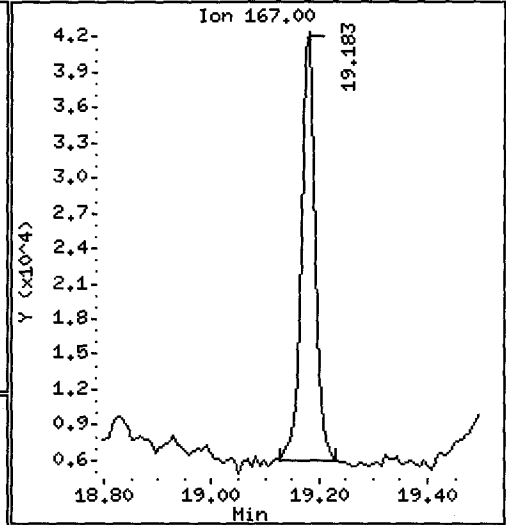
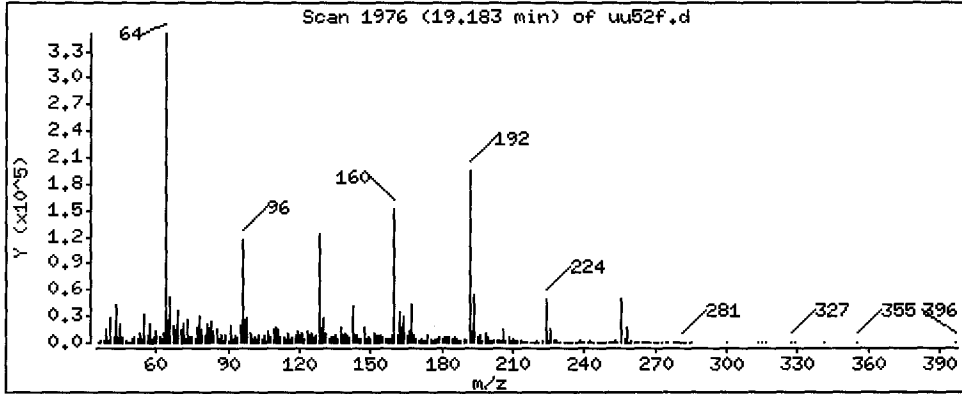
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 126.7 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

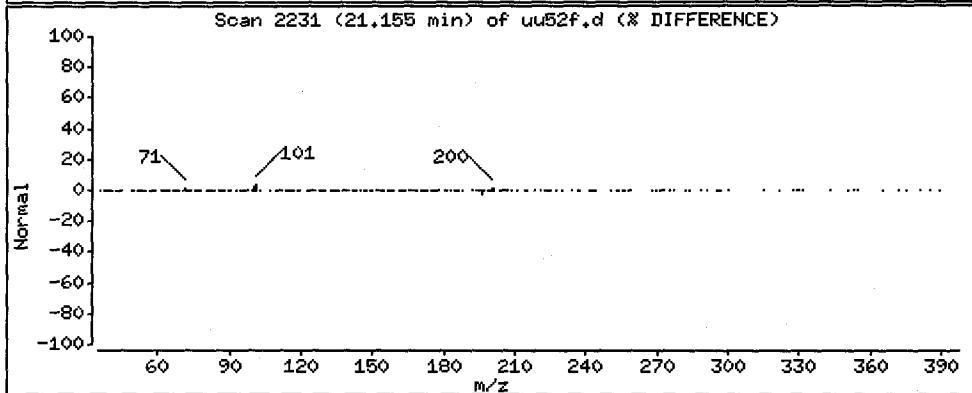
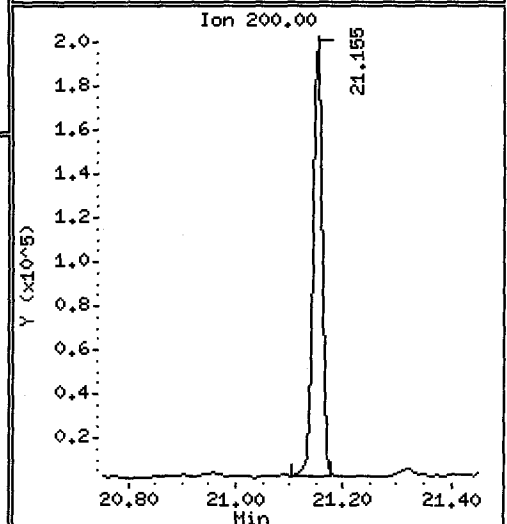
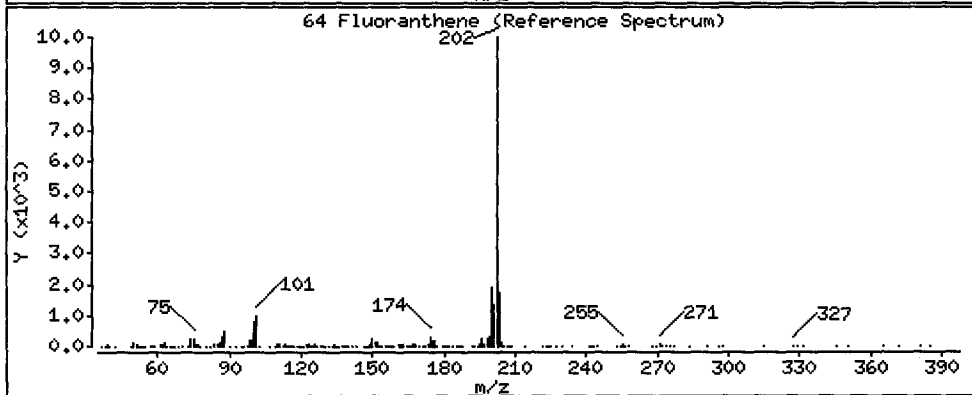
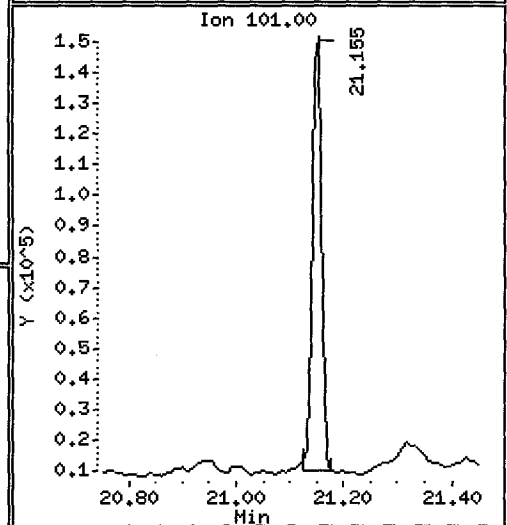
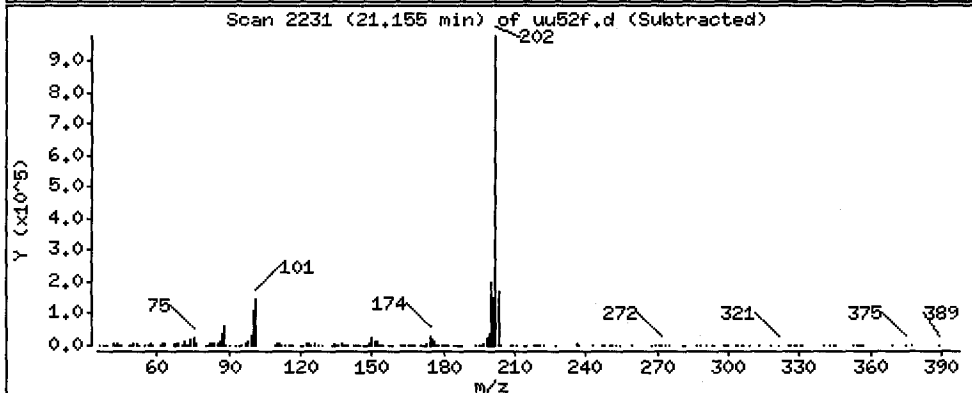
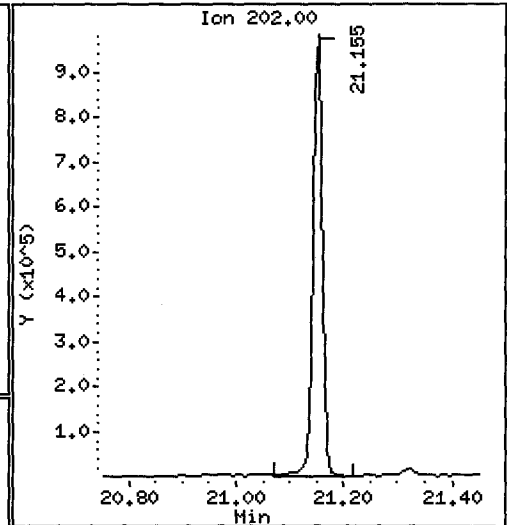
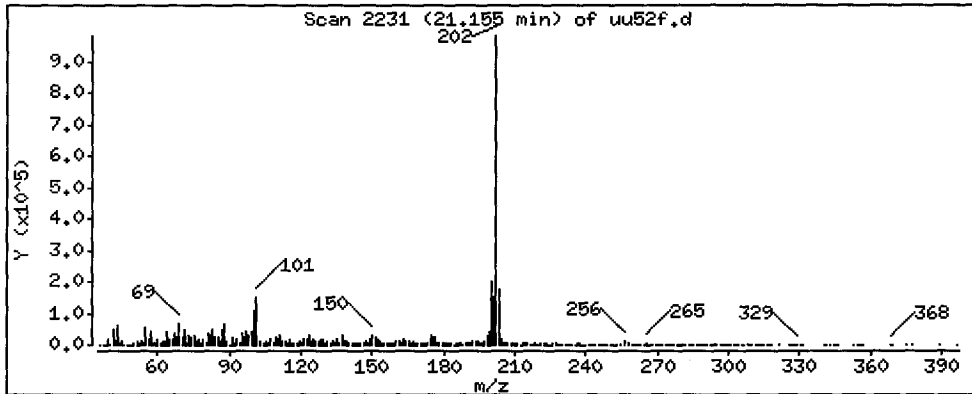
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 1940 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

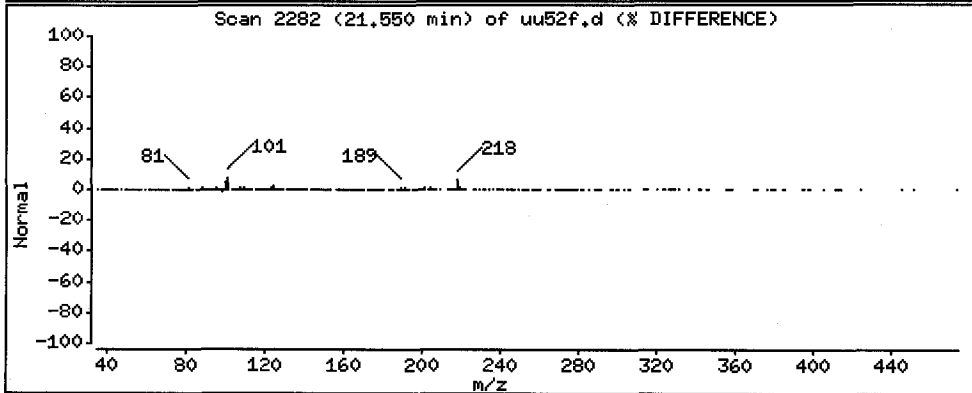
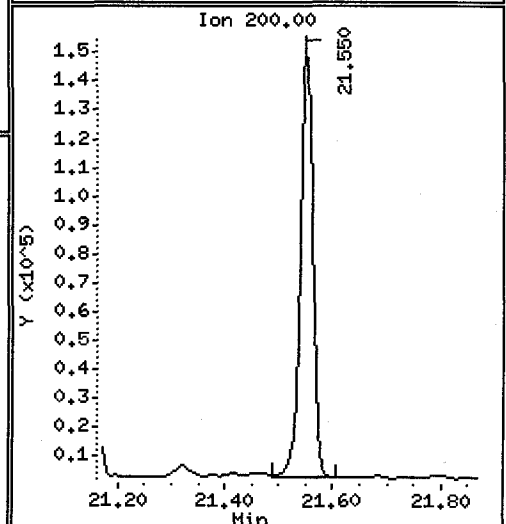
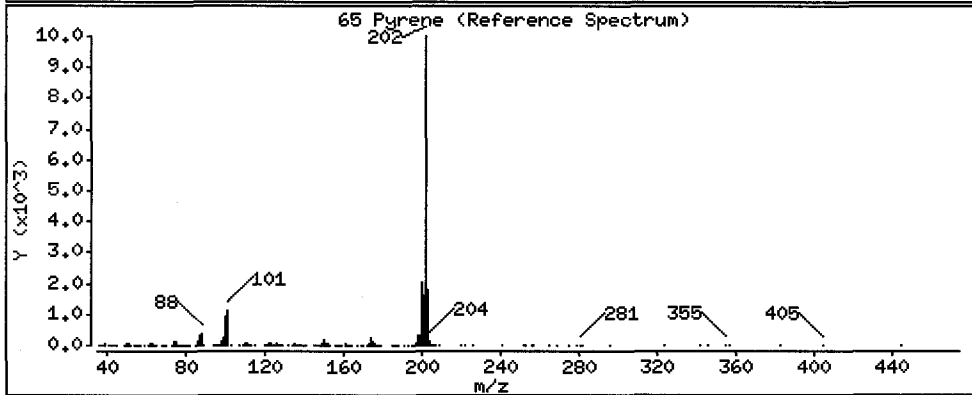
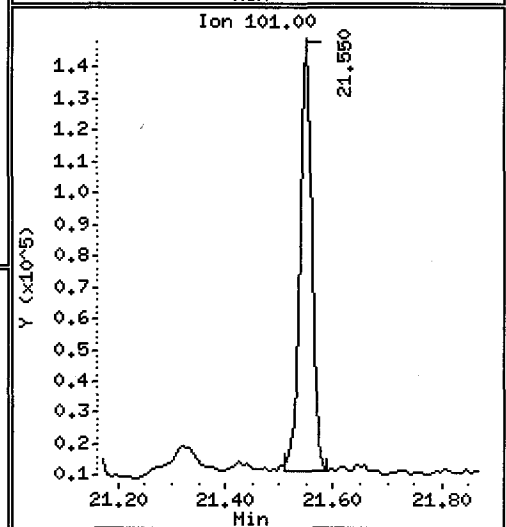
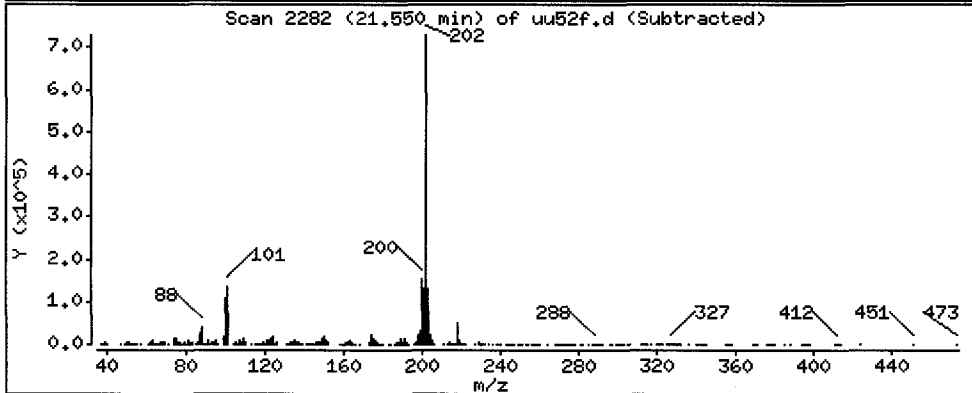
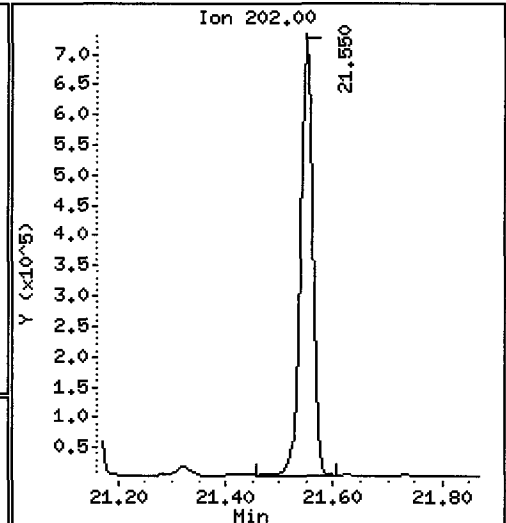
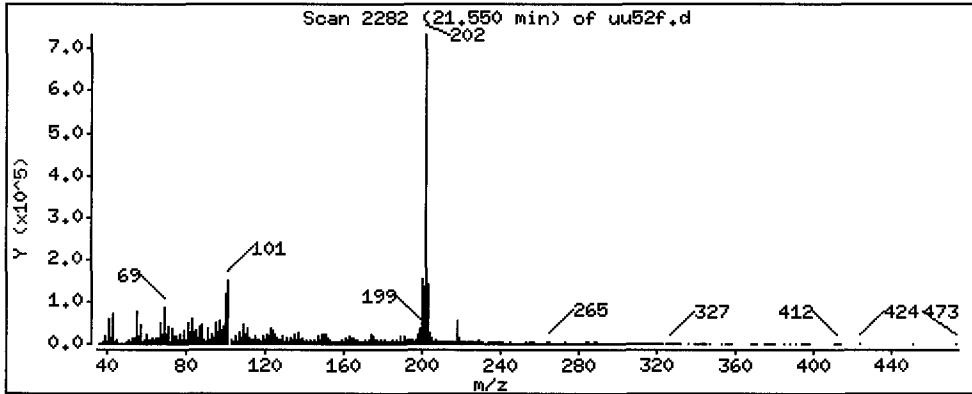
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 1596 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

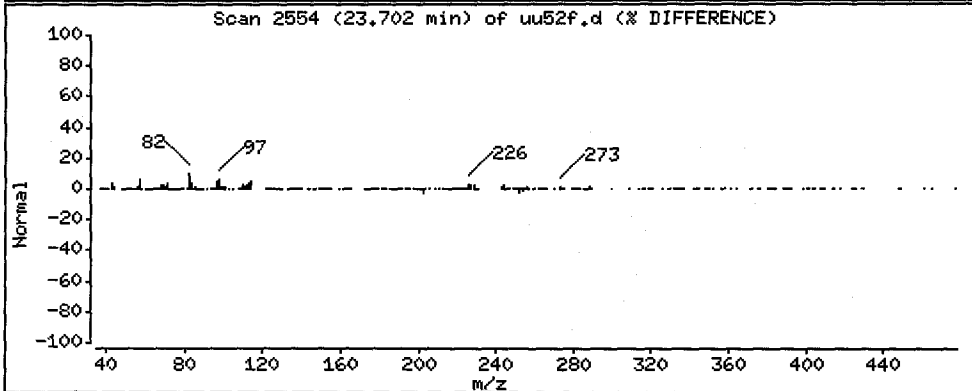
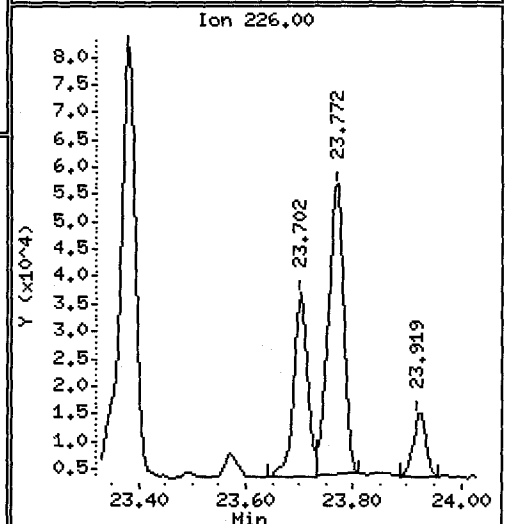
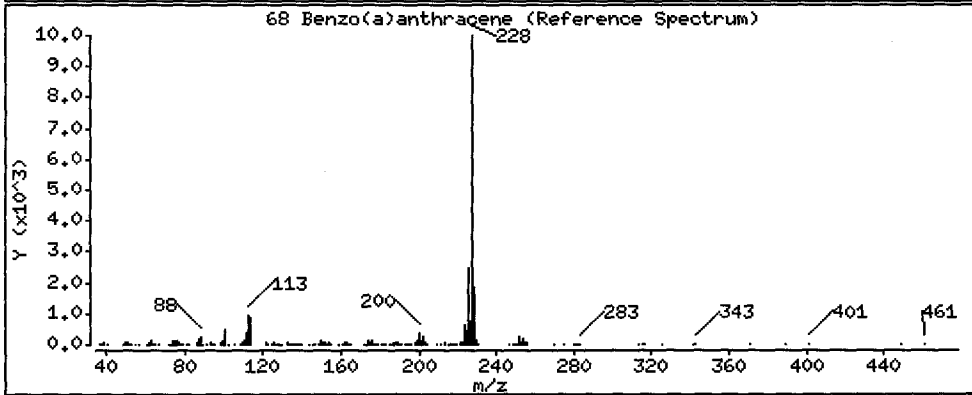
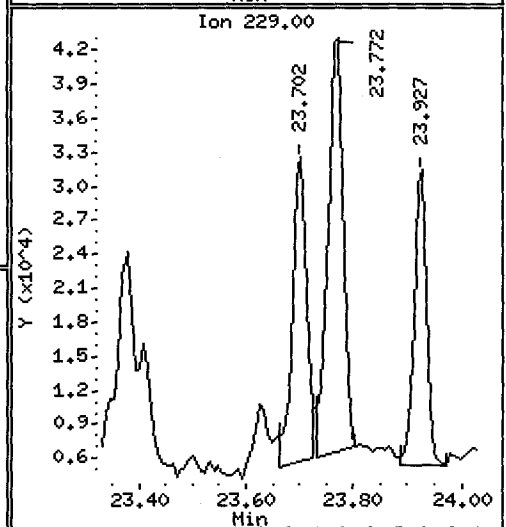
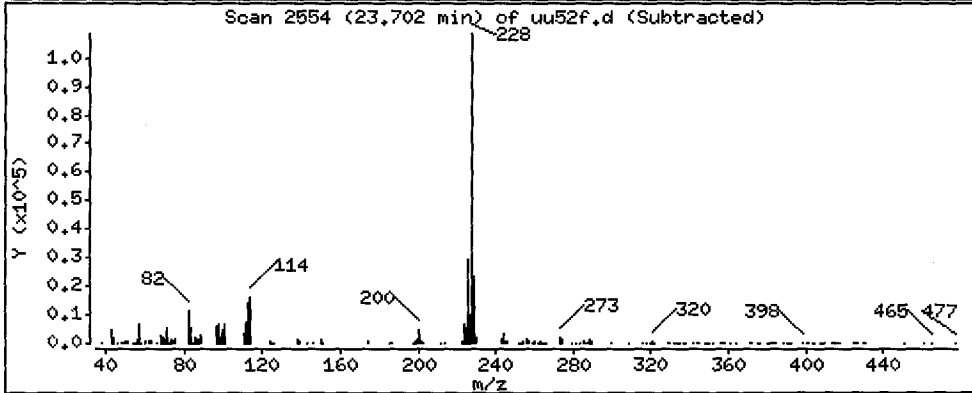
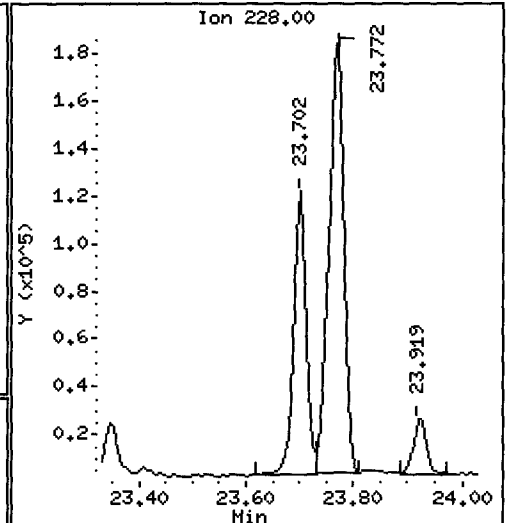
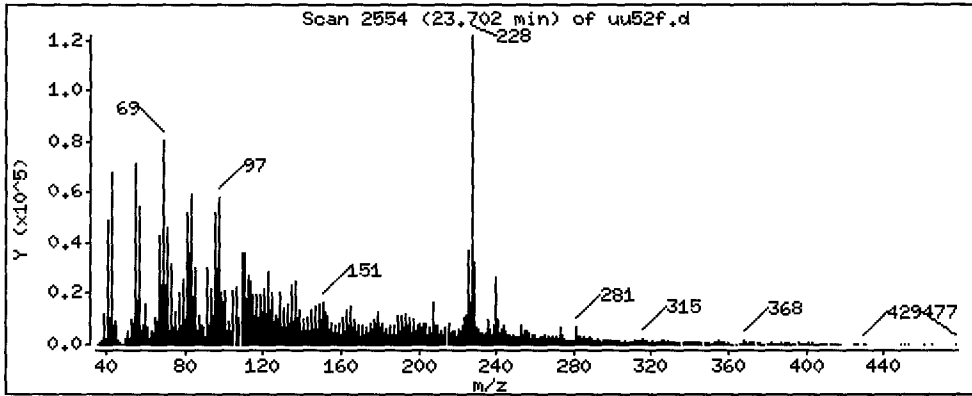
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 295.4 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

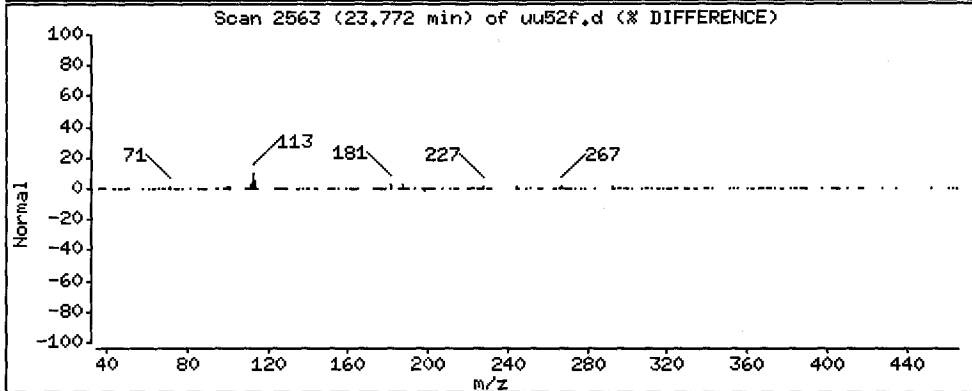
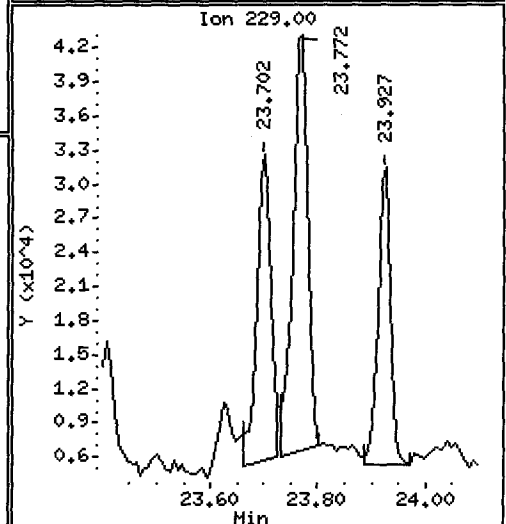
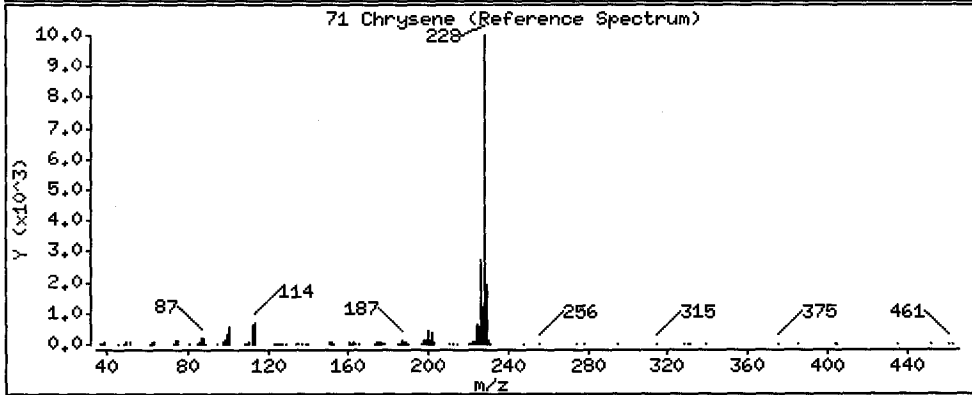
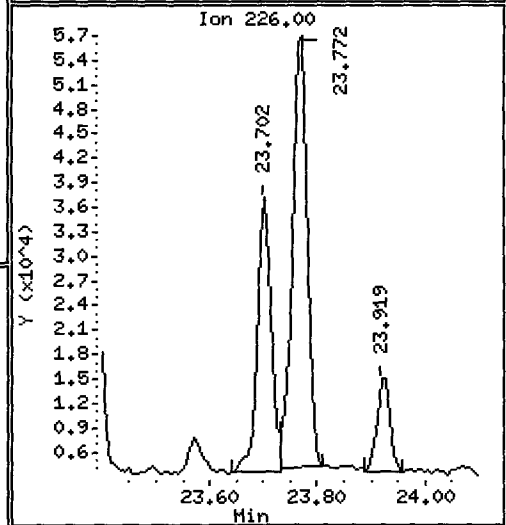
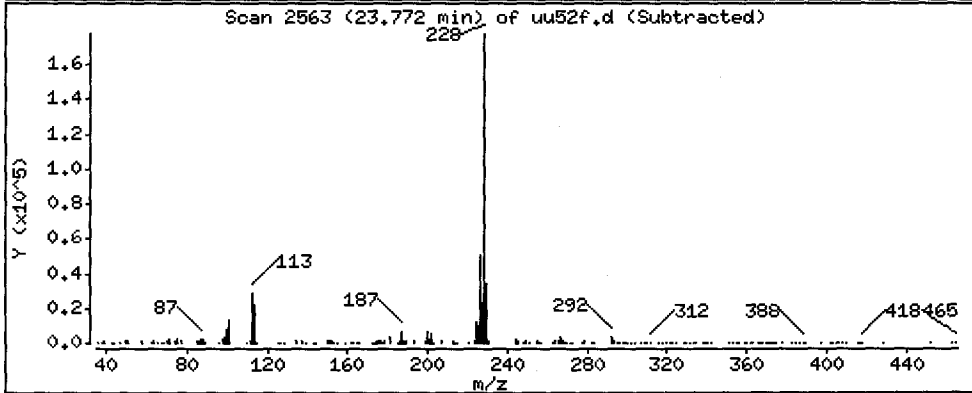
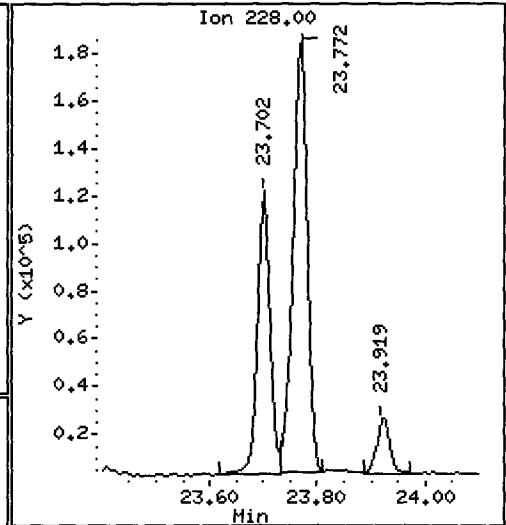
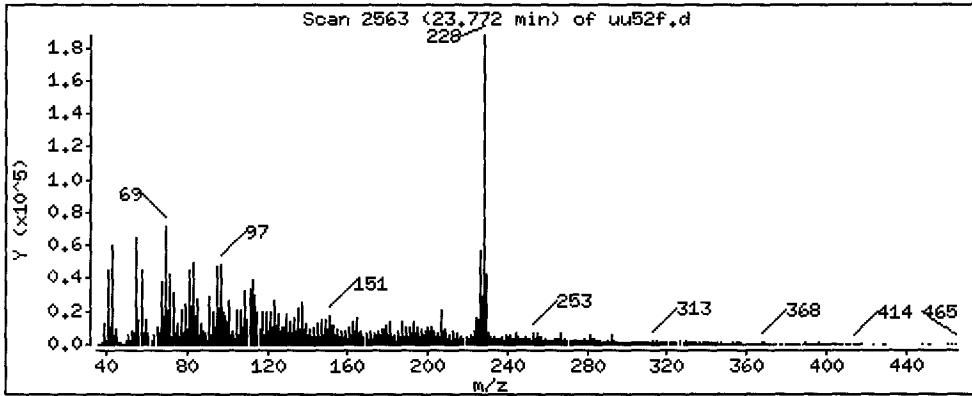
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 574.0 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

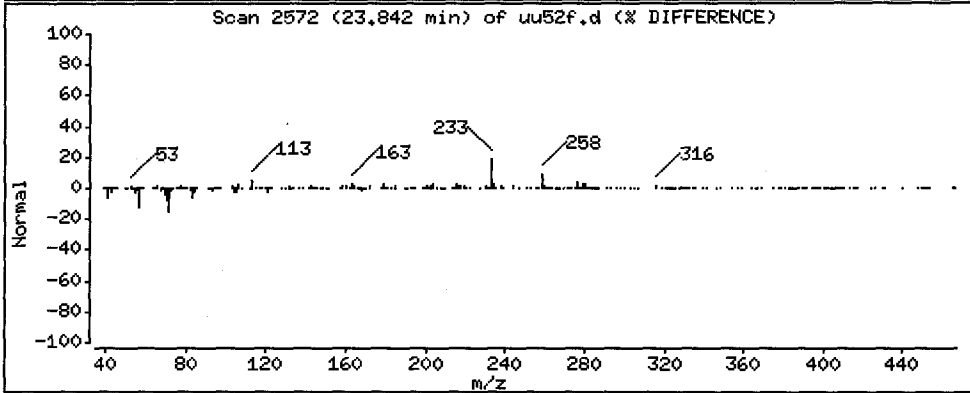
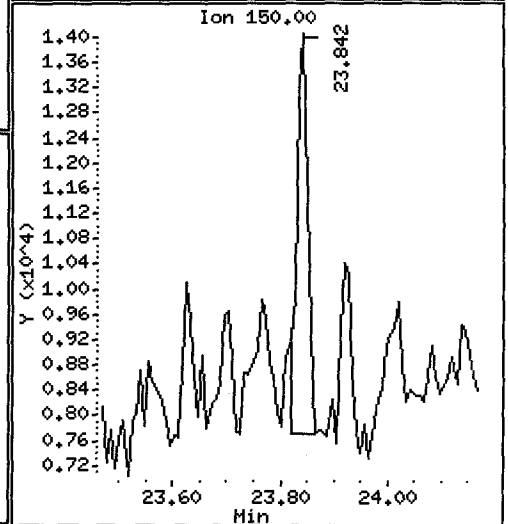
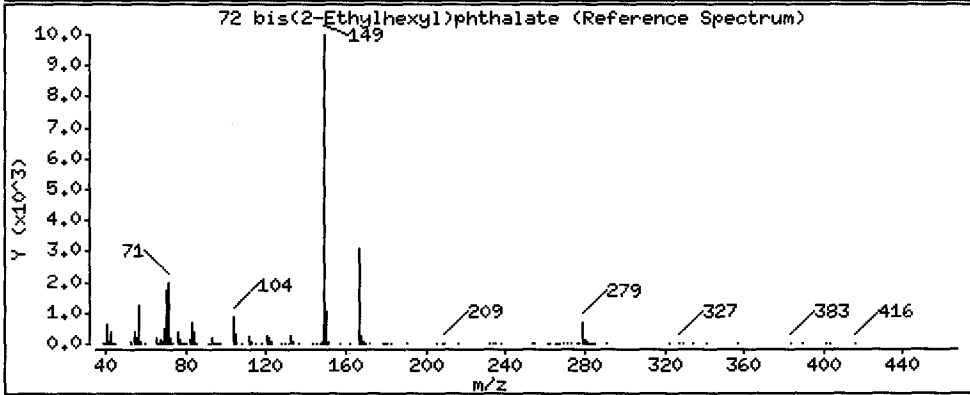
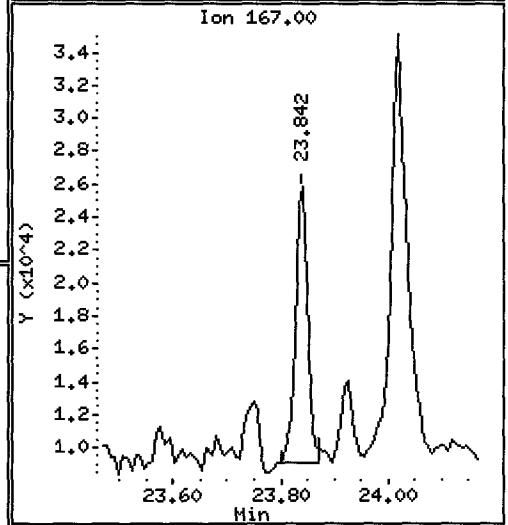
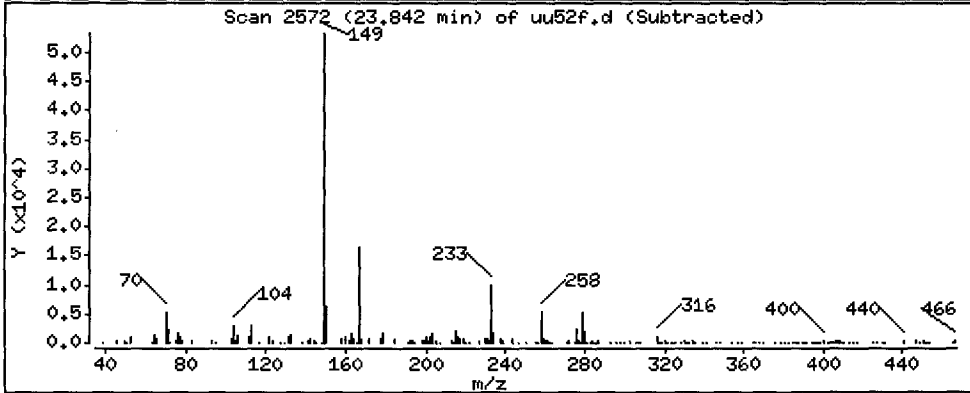
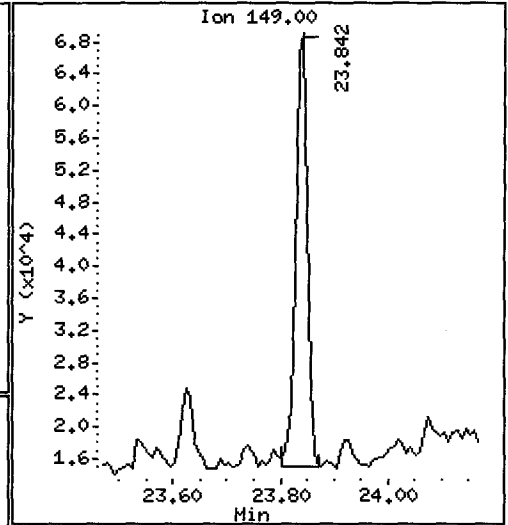
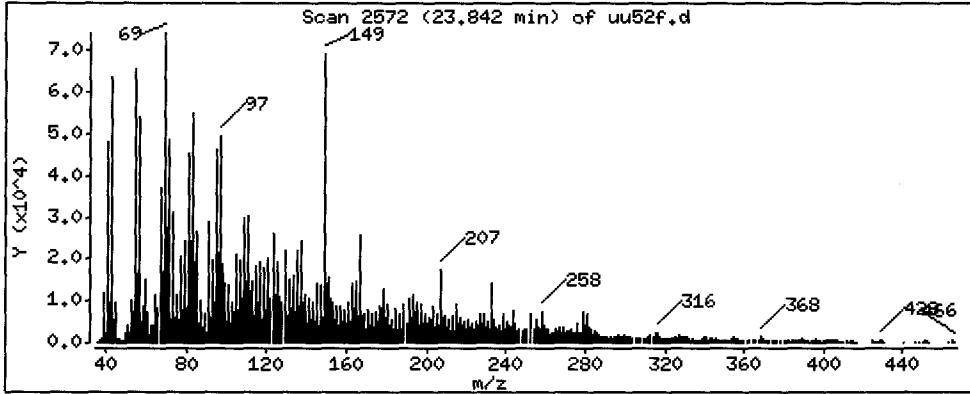
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

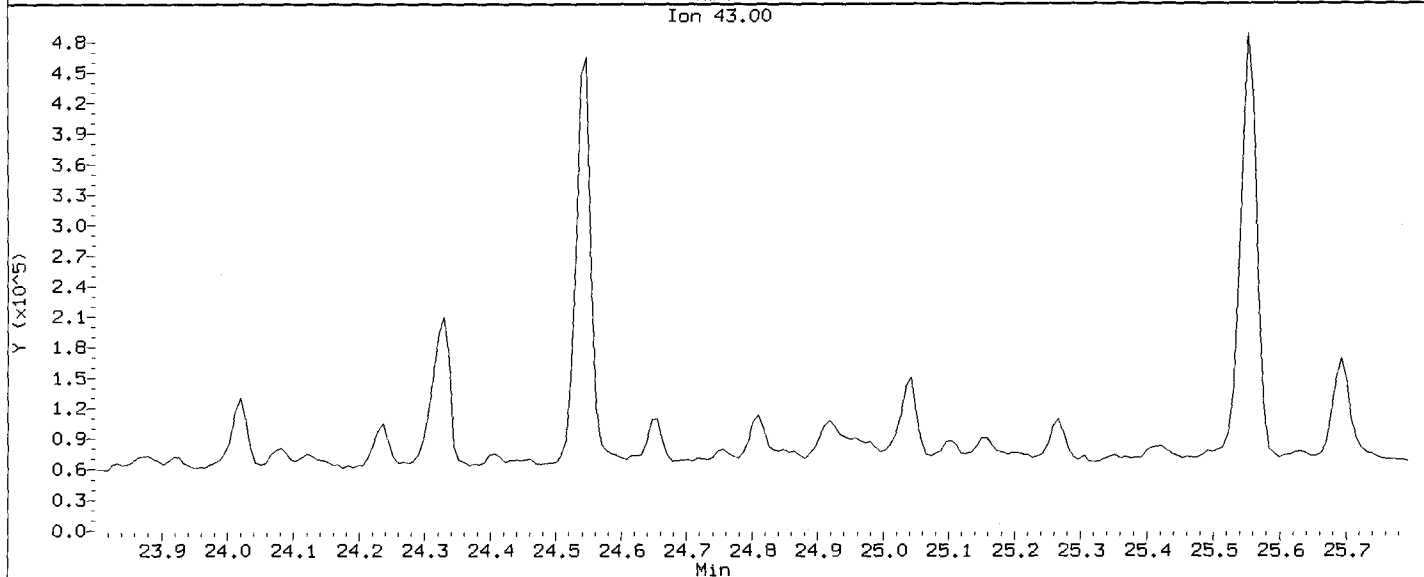
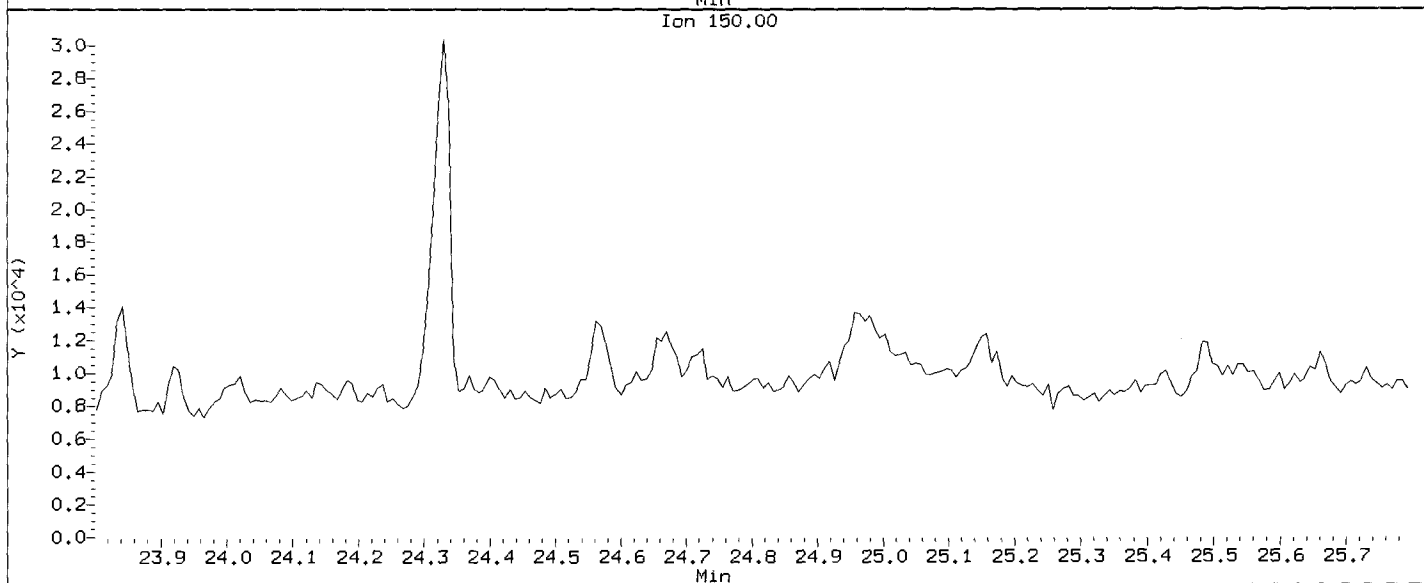
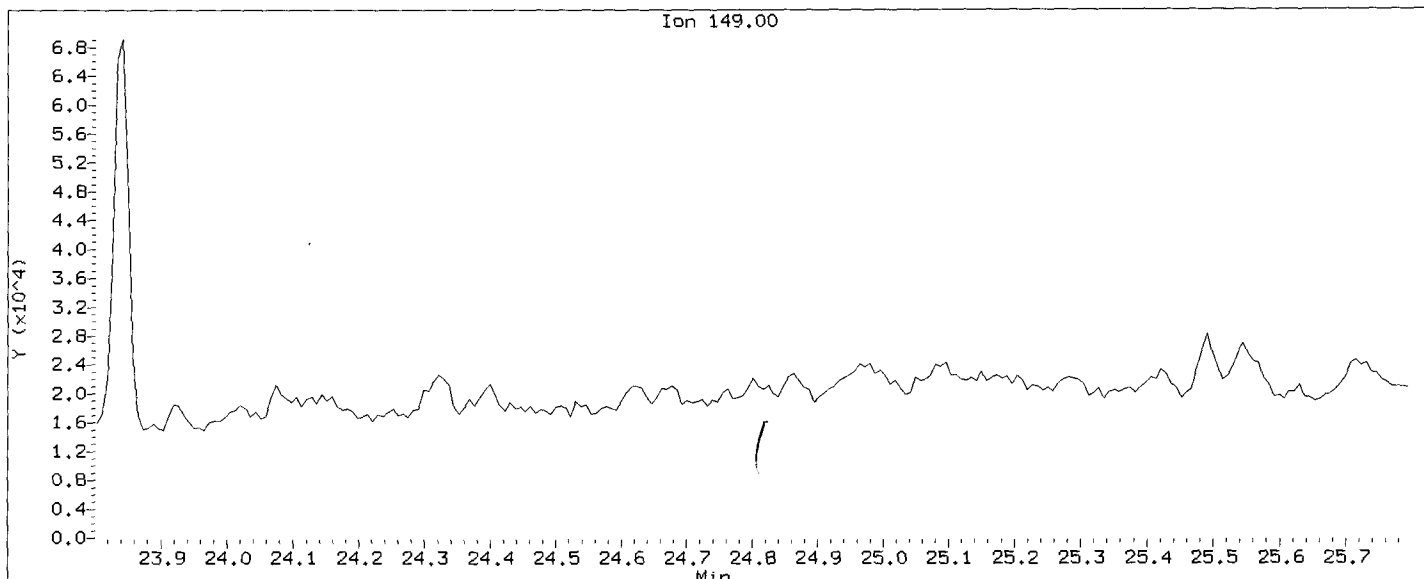
72 bis(2-Ethylhexyl)phthalate

Concentration: 166.1 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52f.d
Injection Date: 26-MAY-2012 20:16
Instrument: nt10.i
Client Sample ID: MS005-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

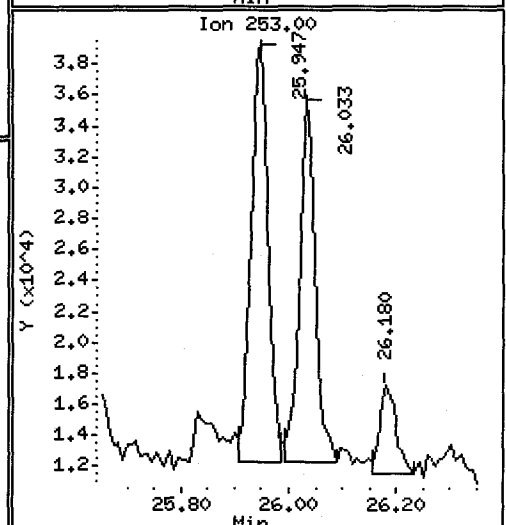
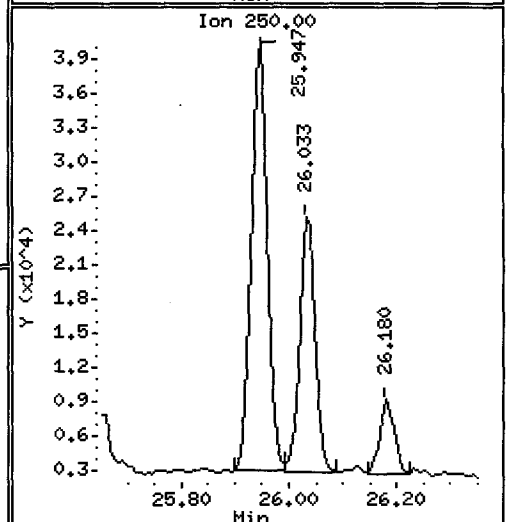
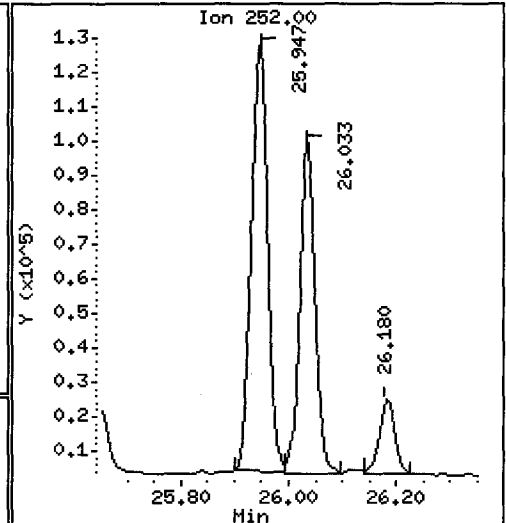
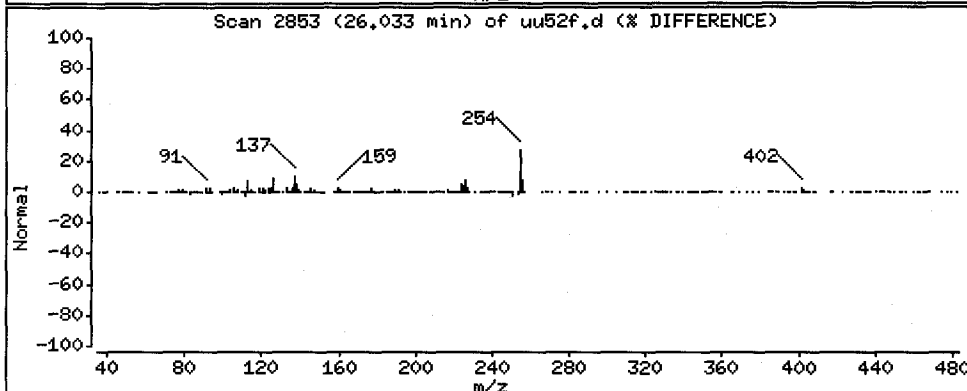
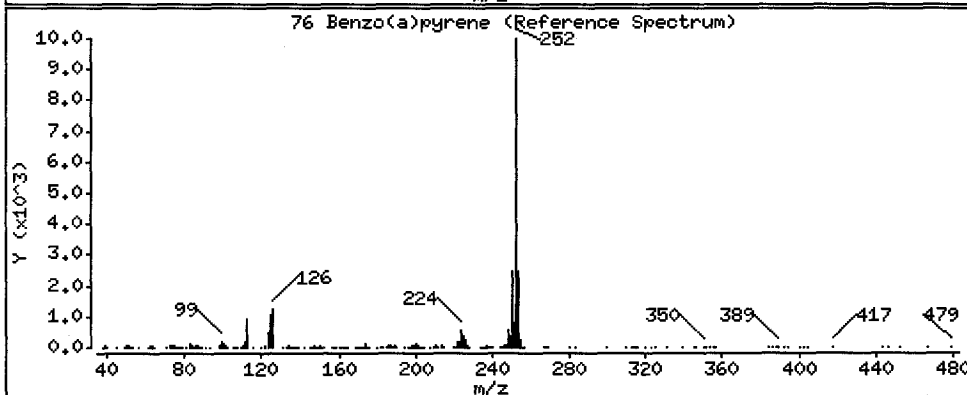
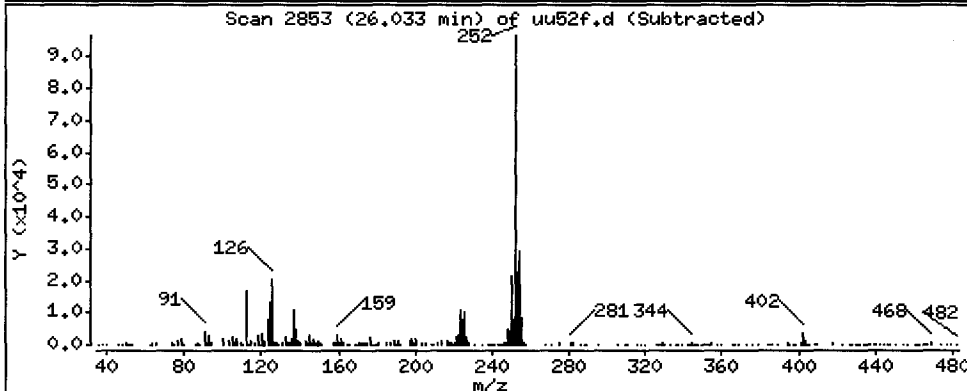
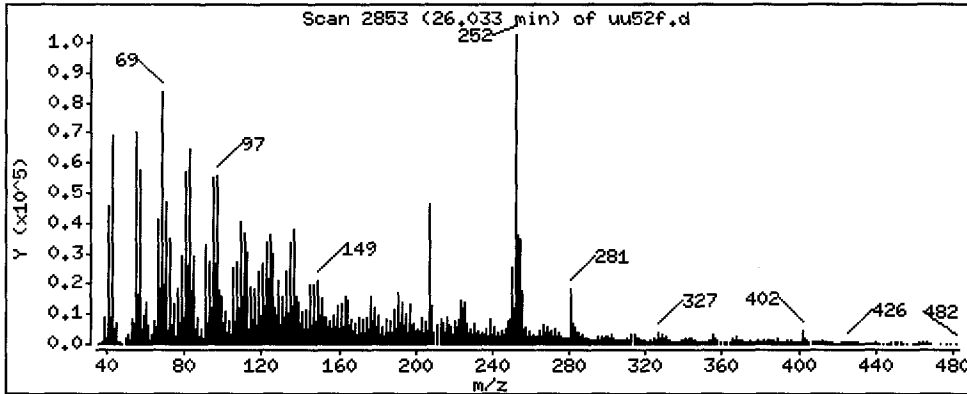
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 334.6 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

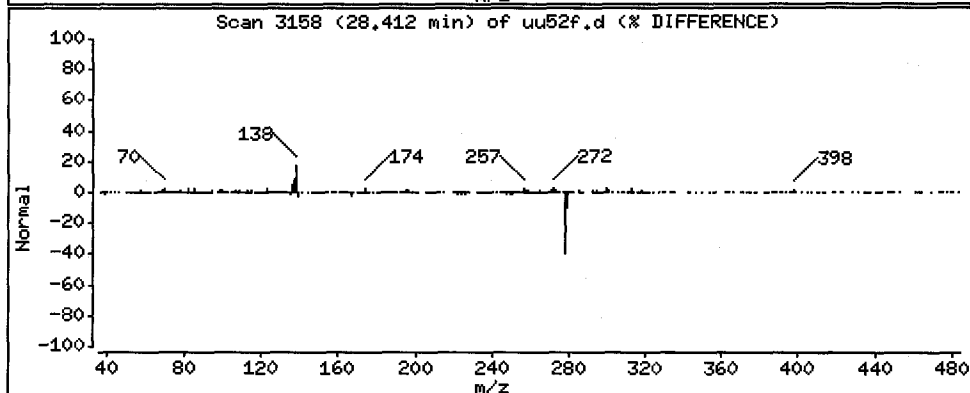
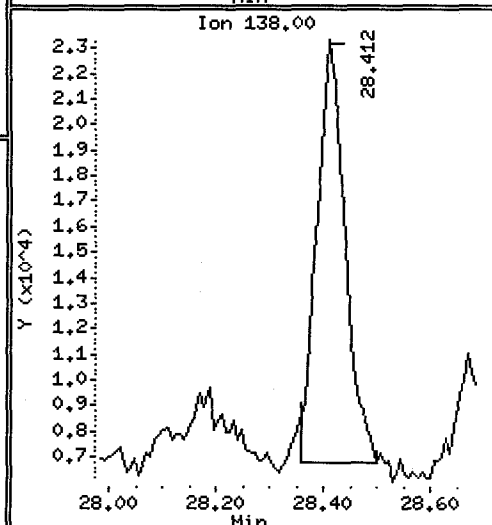
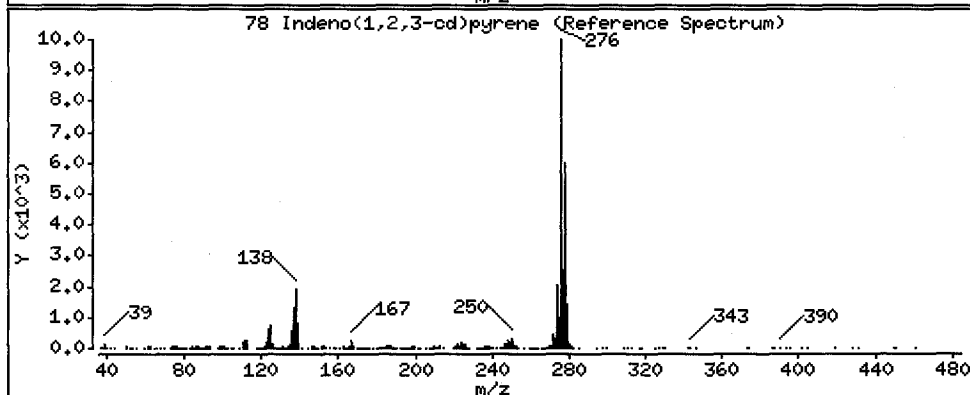
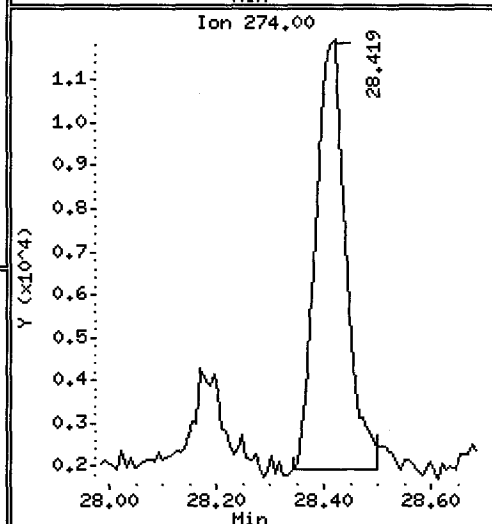
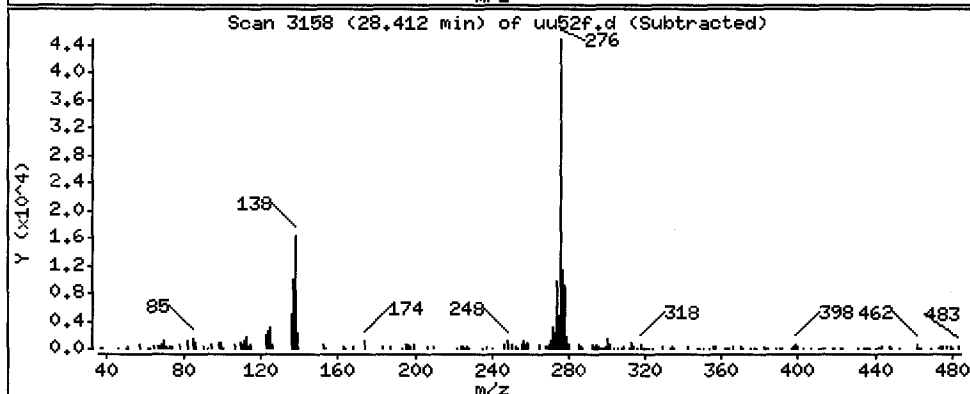
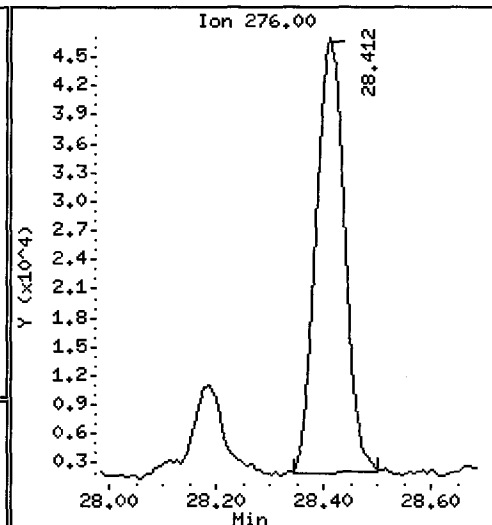
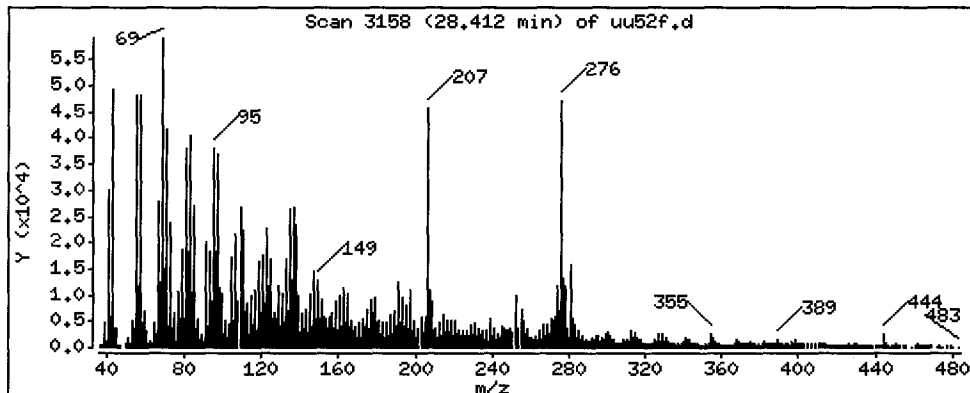
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 242.9 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

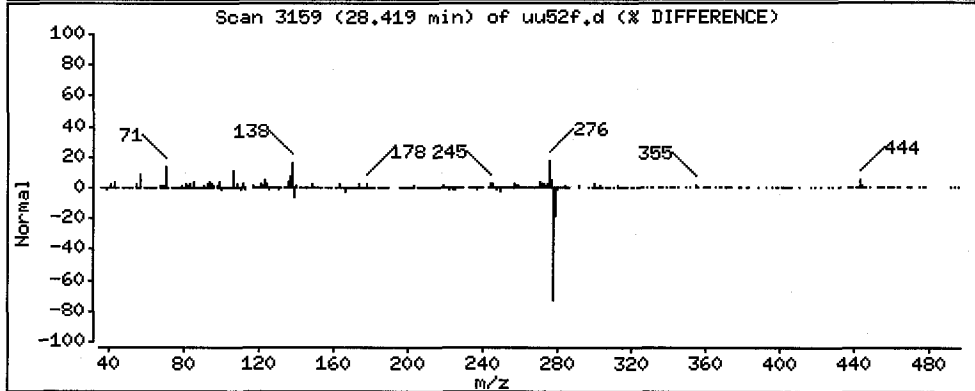
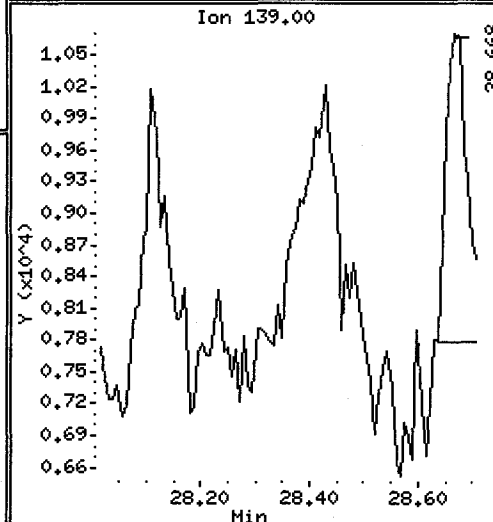
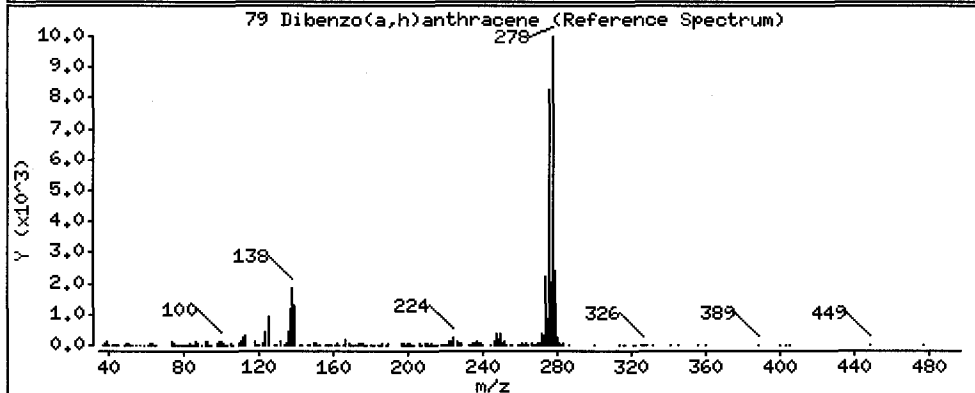
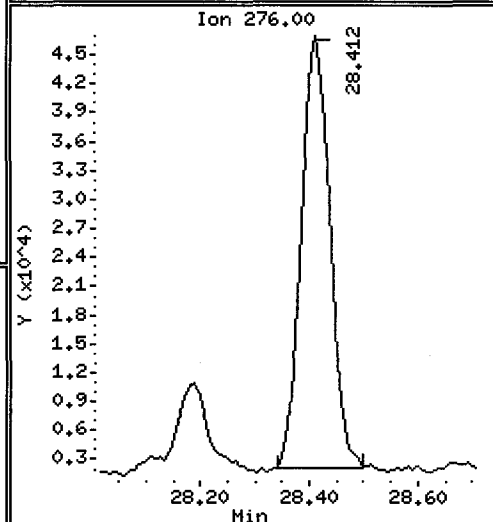
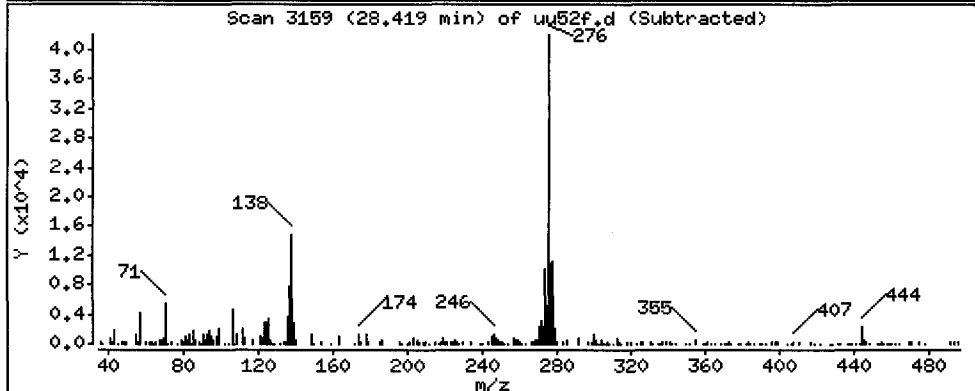
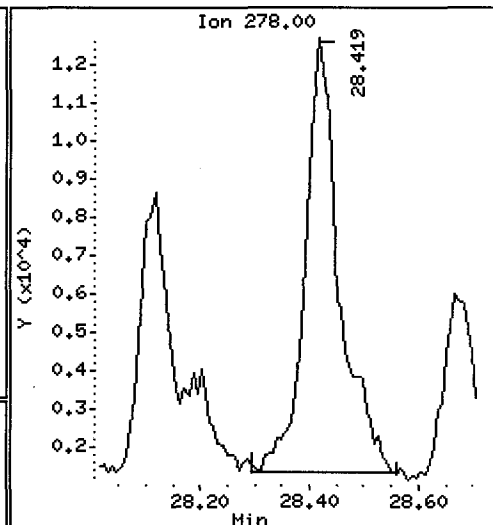
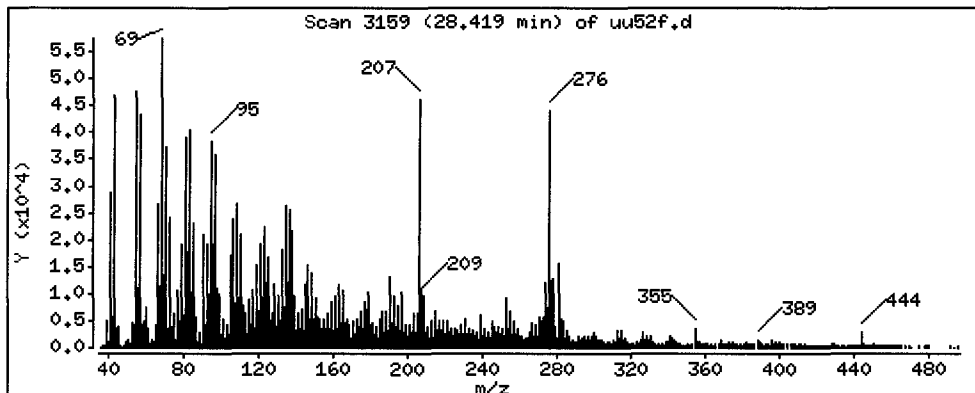
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 94.60 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

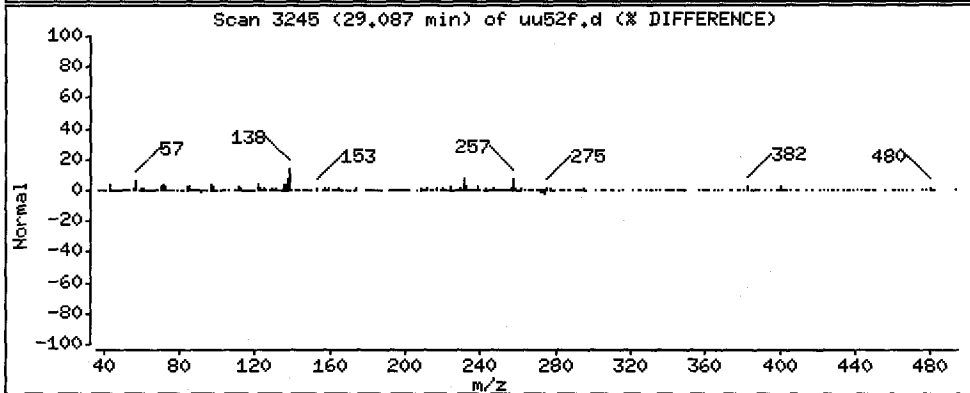
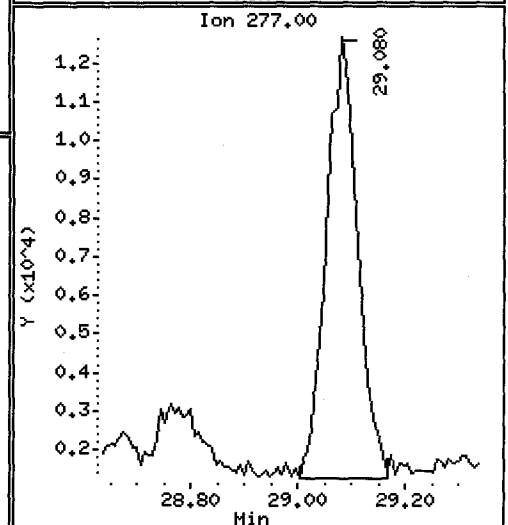
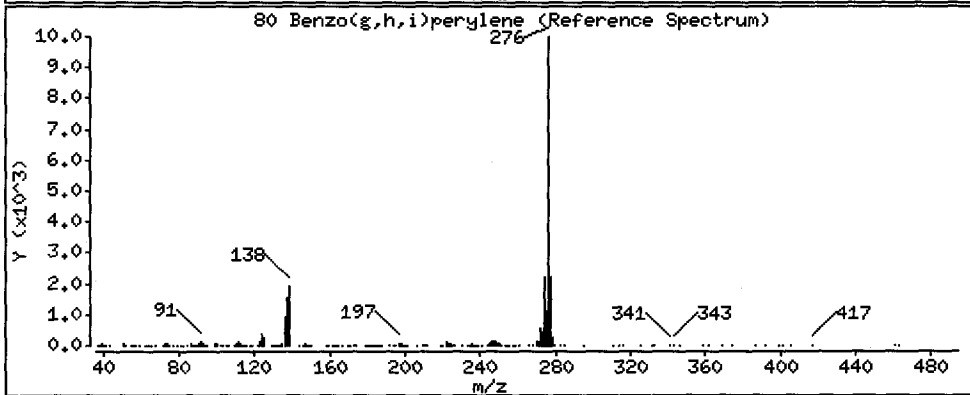
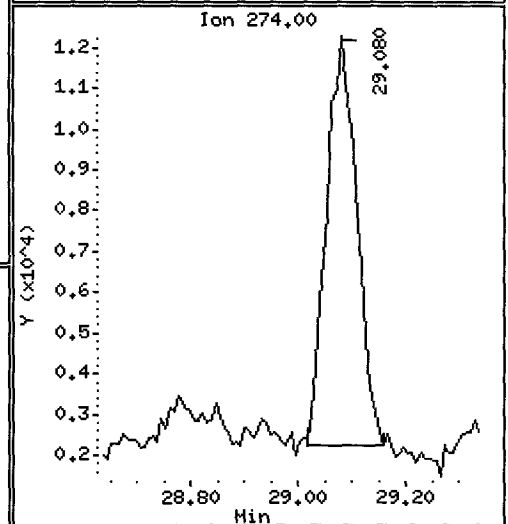
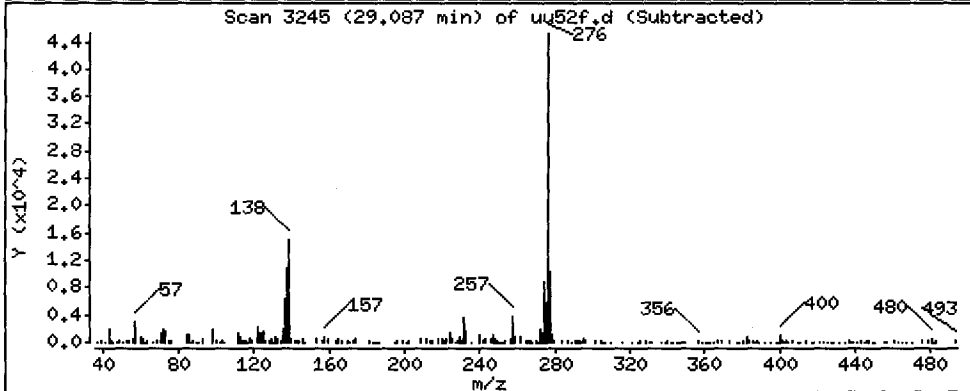
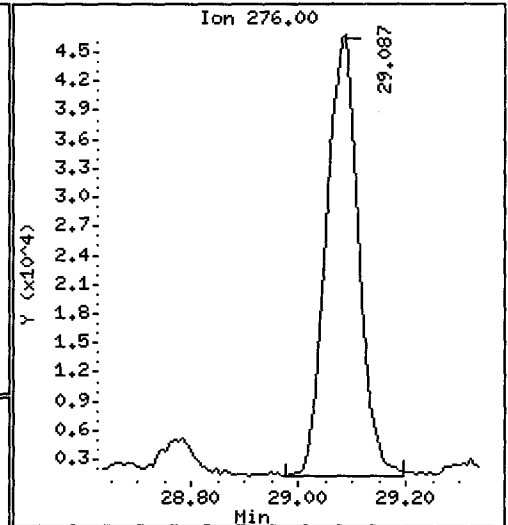
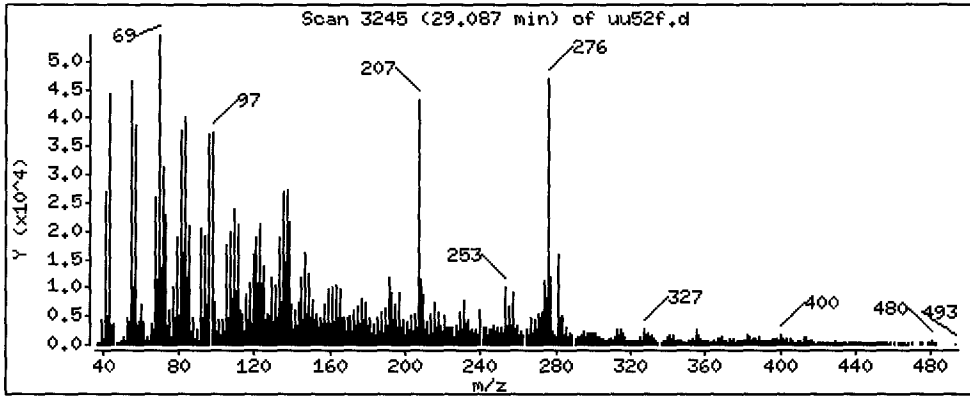
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 323.3 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

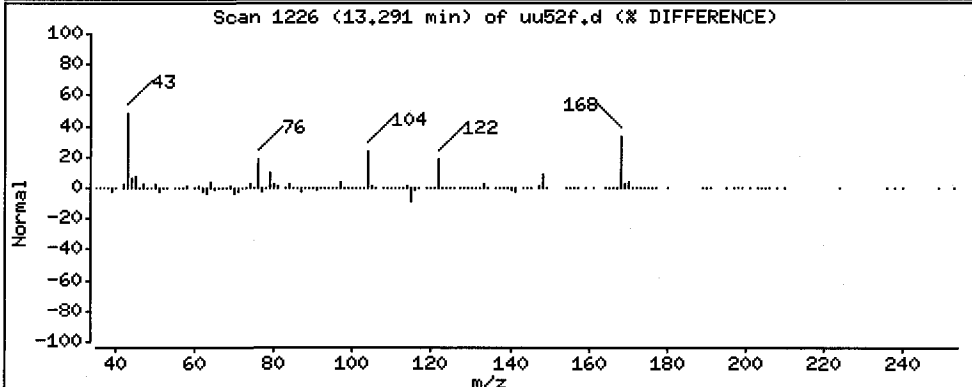
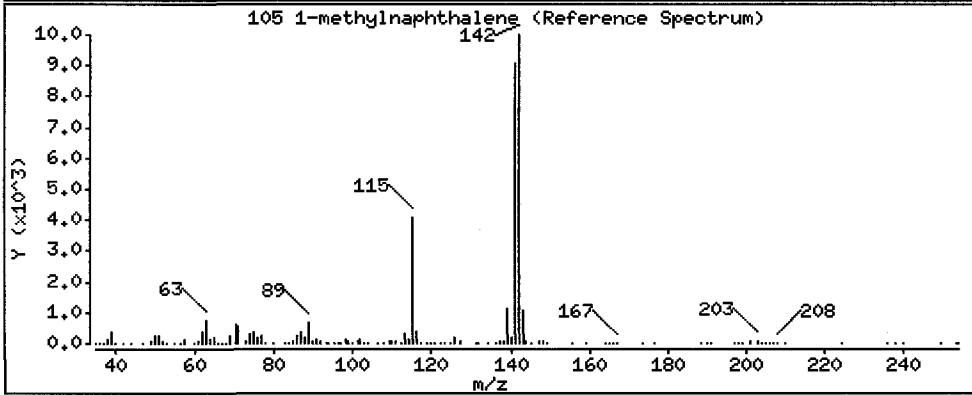
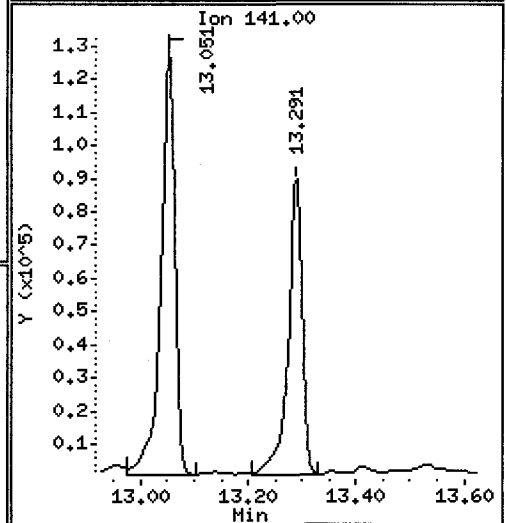
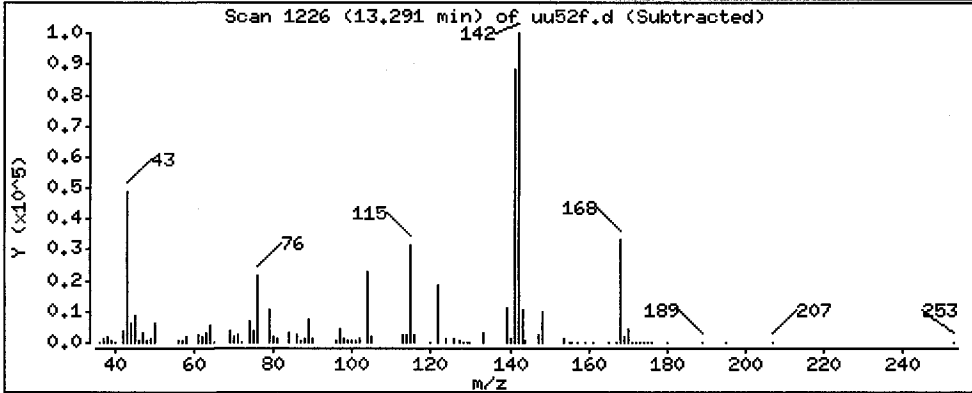
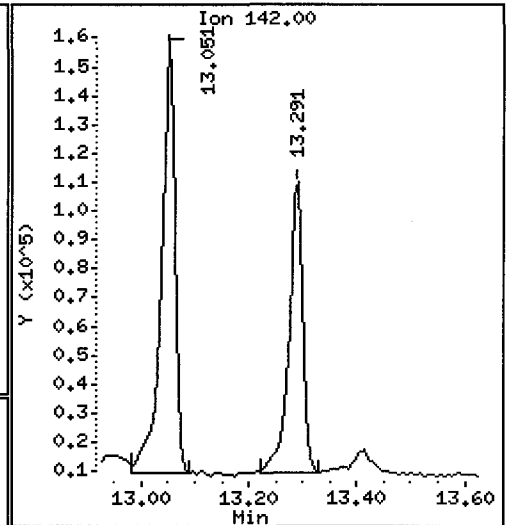
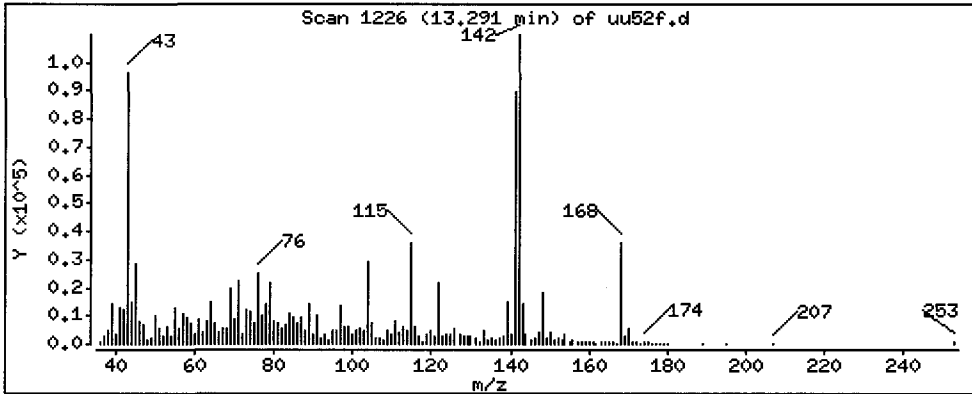
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 399.7 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

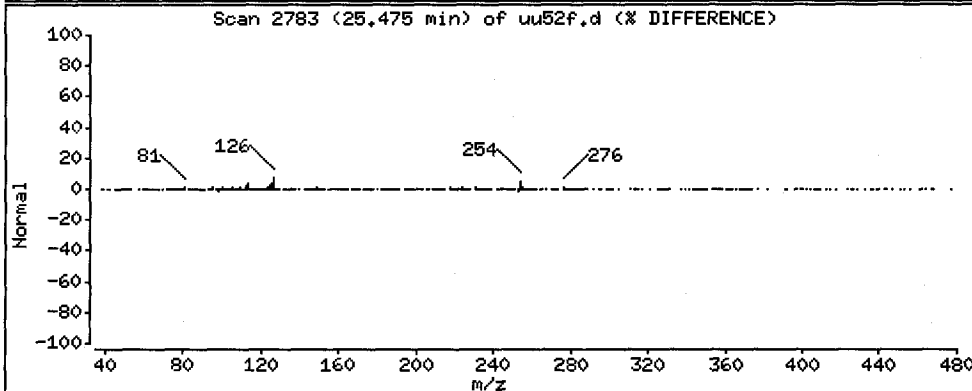
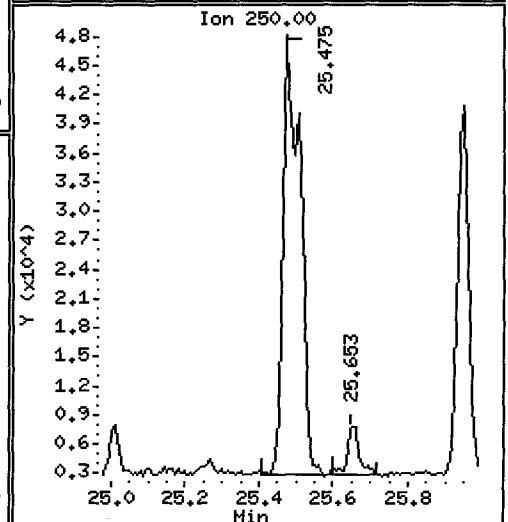
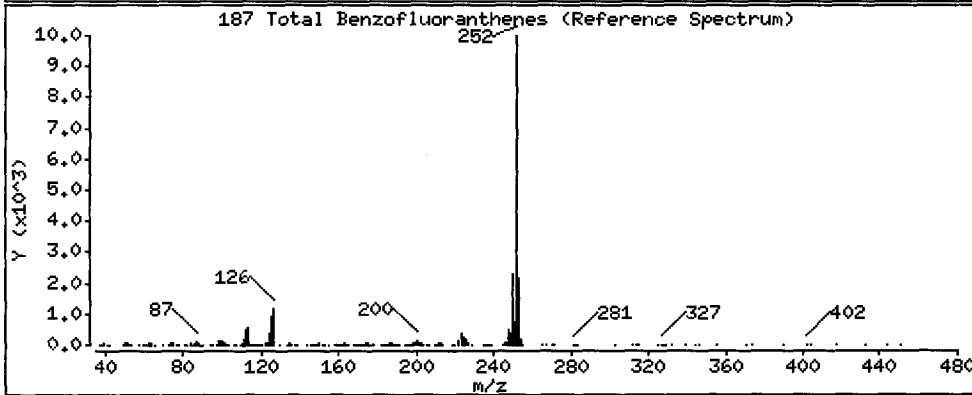
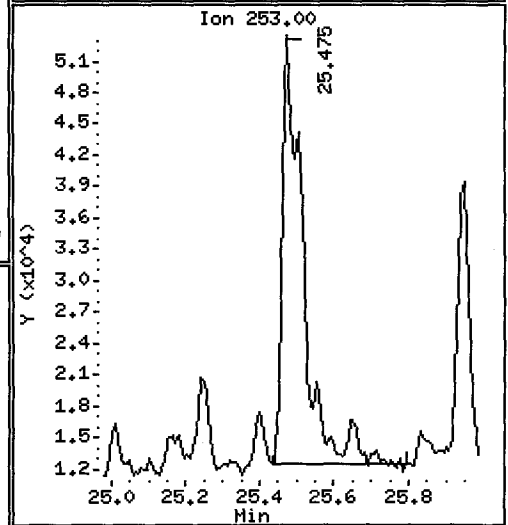
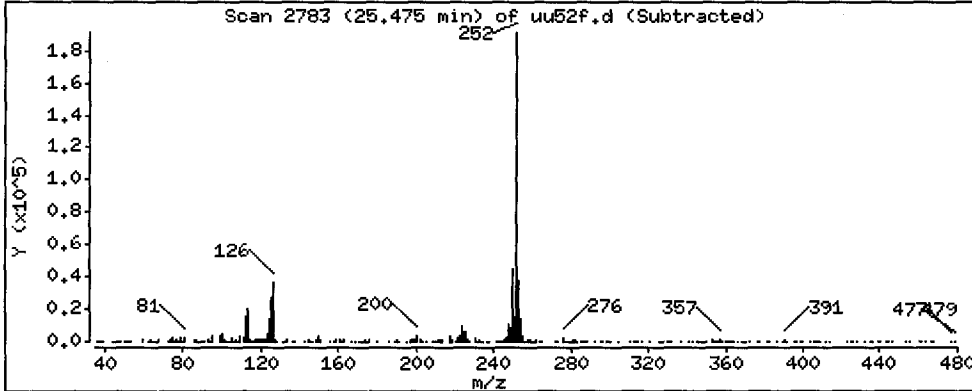
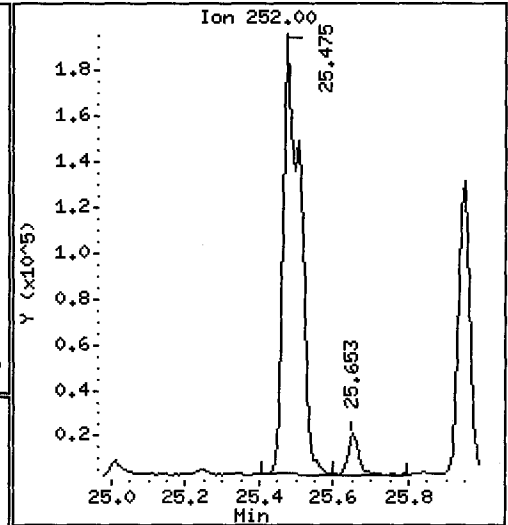
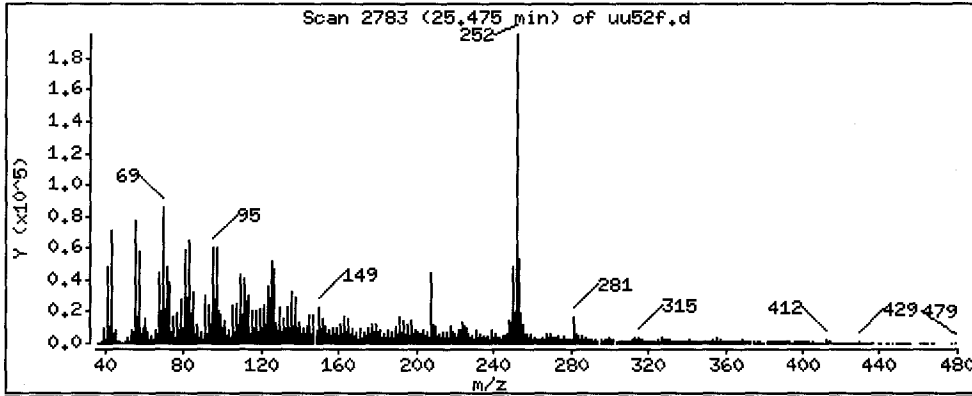
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 966.3 ug/kg



Date : 26-MAY-2012 20:16

Client ID: MS005-SS-120515

Instrument: nt10.i

Sample Info: UU52F,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

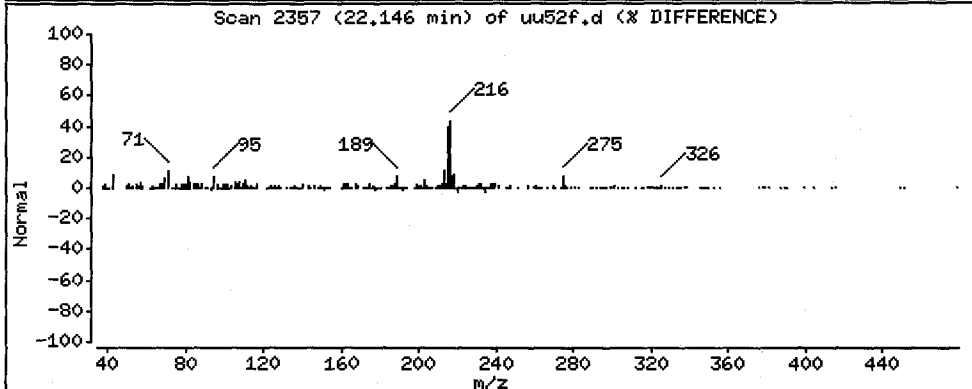
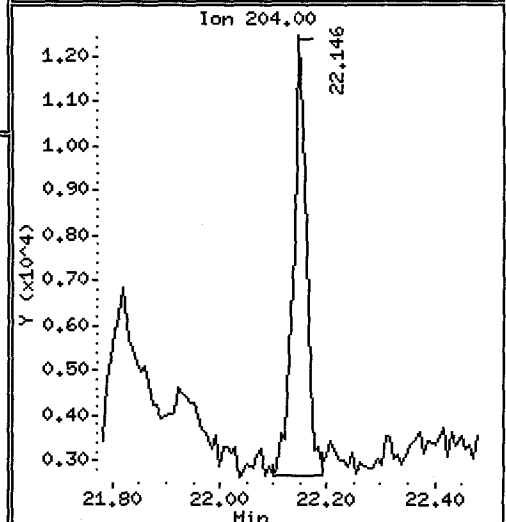
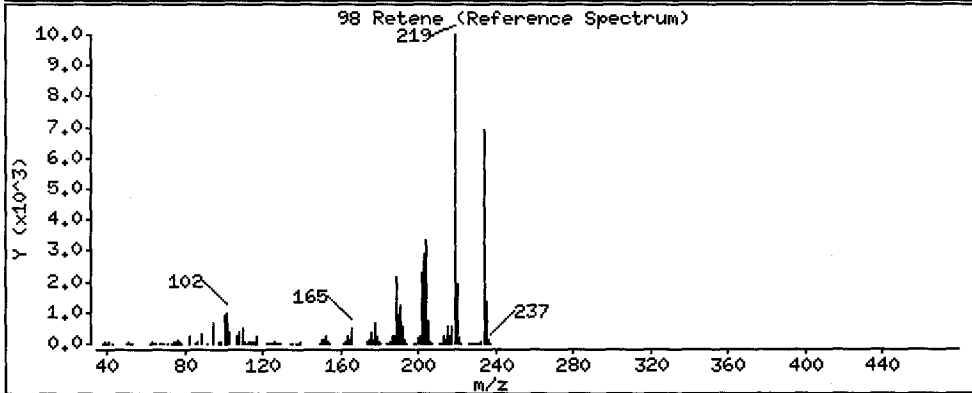
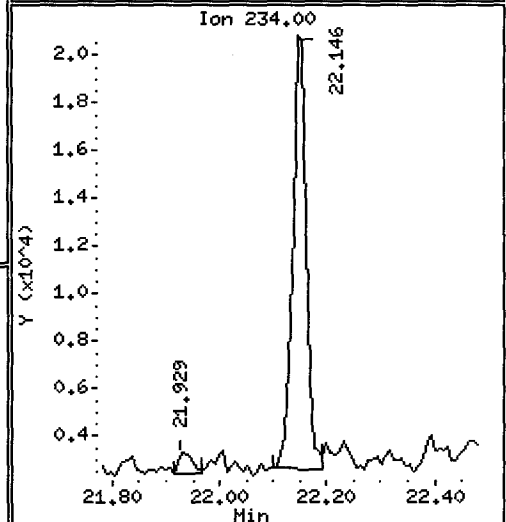
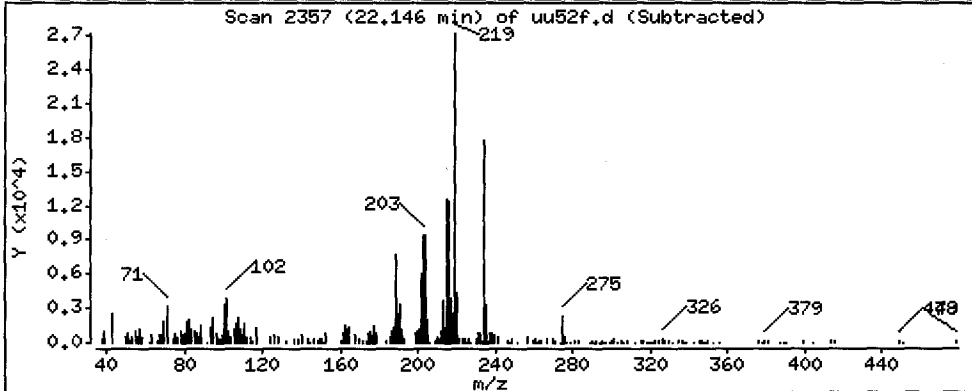
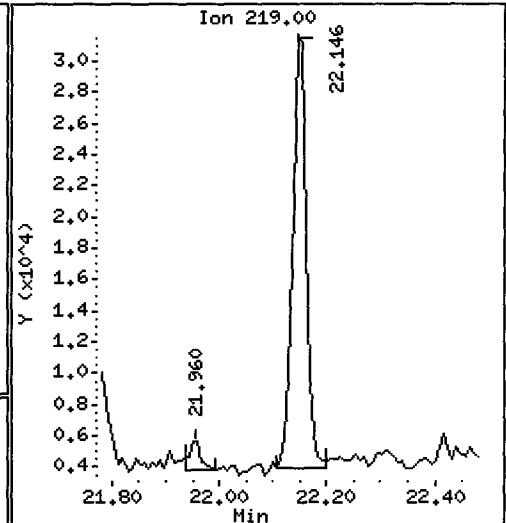
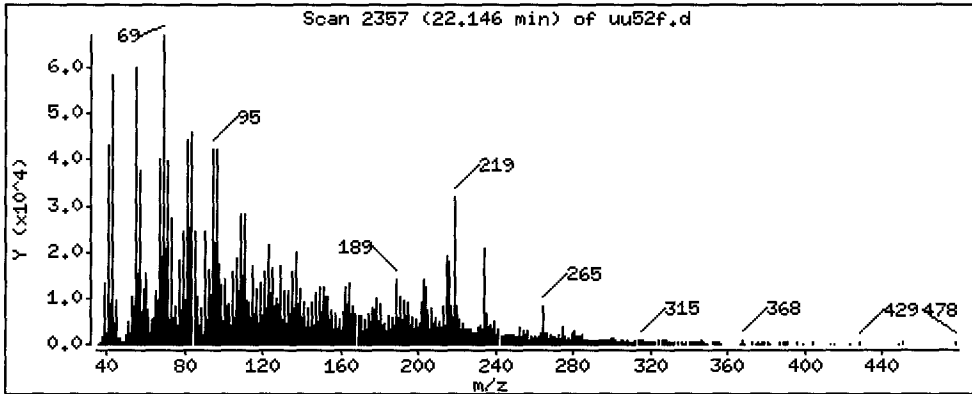
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

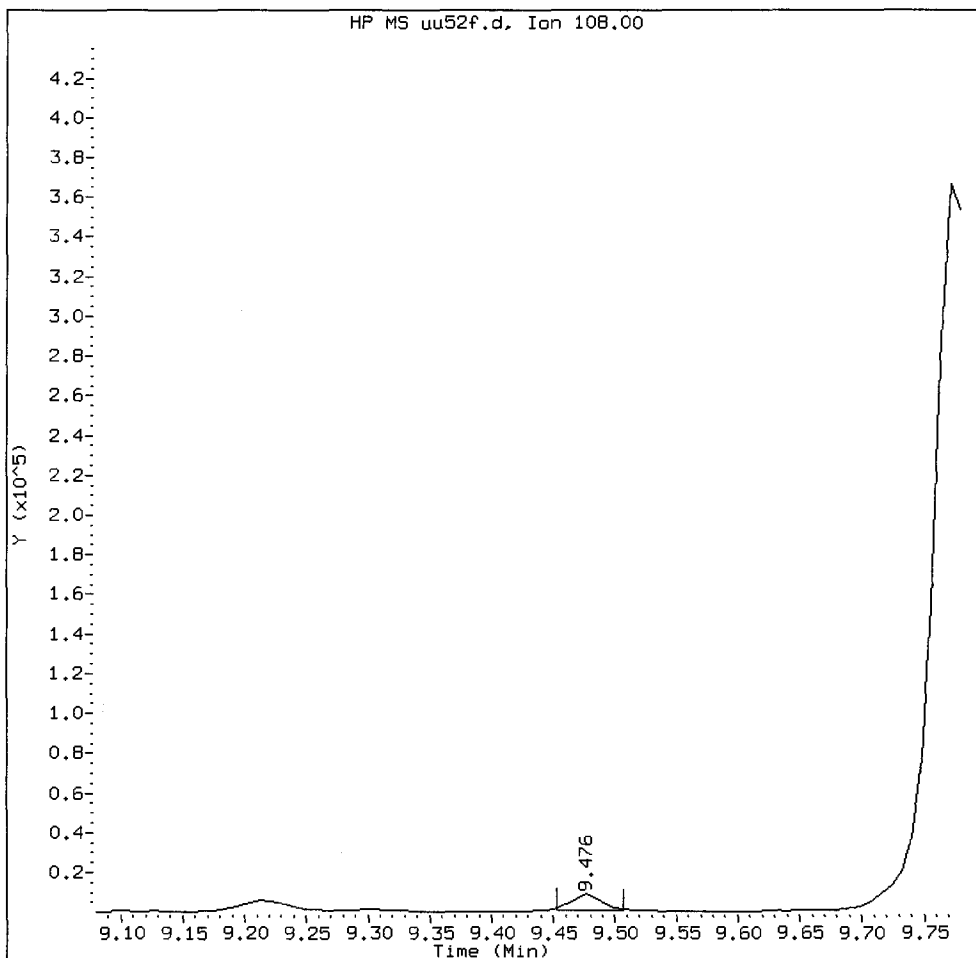
Concentration: 140.5 ug/kg

JKL



UU52F, /chem1/nt10.i/20120526.b/uu52f.d

2-Methylphenol Amount: 0.22 Area: 15496



MANUAL INTEGRATION for 2-Methylphenol

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

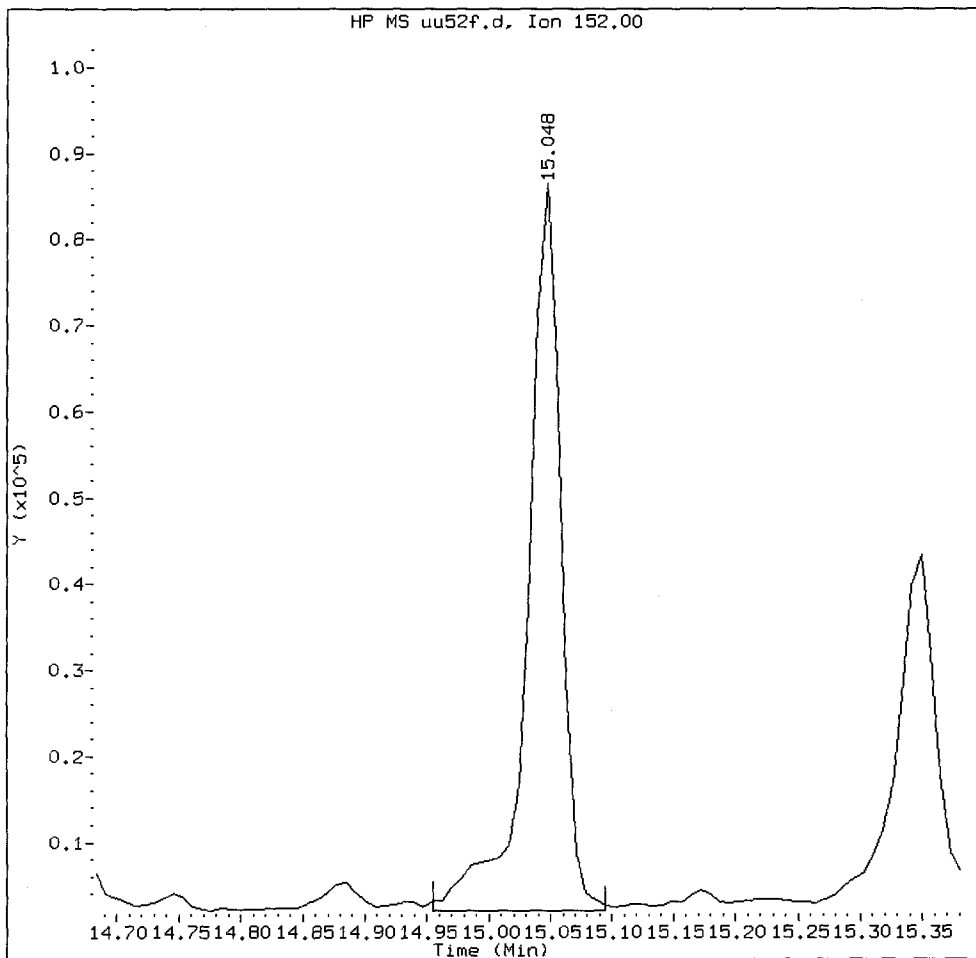
5. Other _____

Analyst: Y2

Date: 5/30/12

UU52F, /chem1/nt10.i/20120526.b/uu52f.d

Acenaphthylene Amount: 0.85 Area: 164674



MANUAL INTEGRATION for Acenaphthylene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

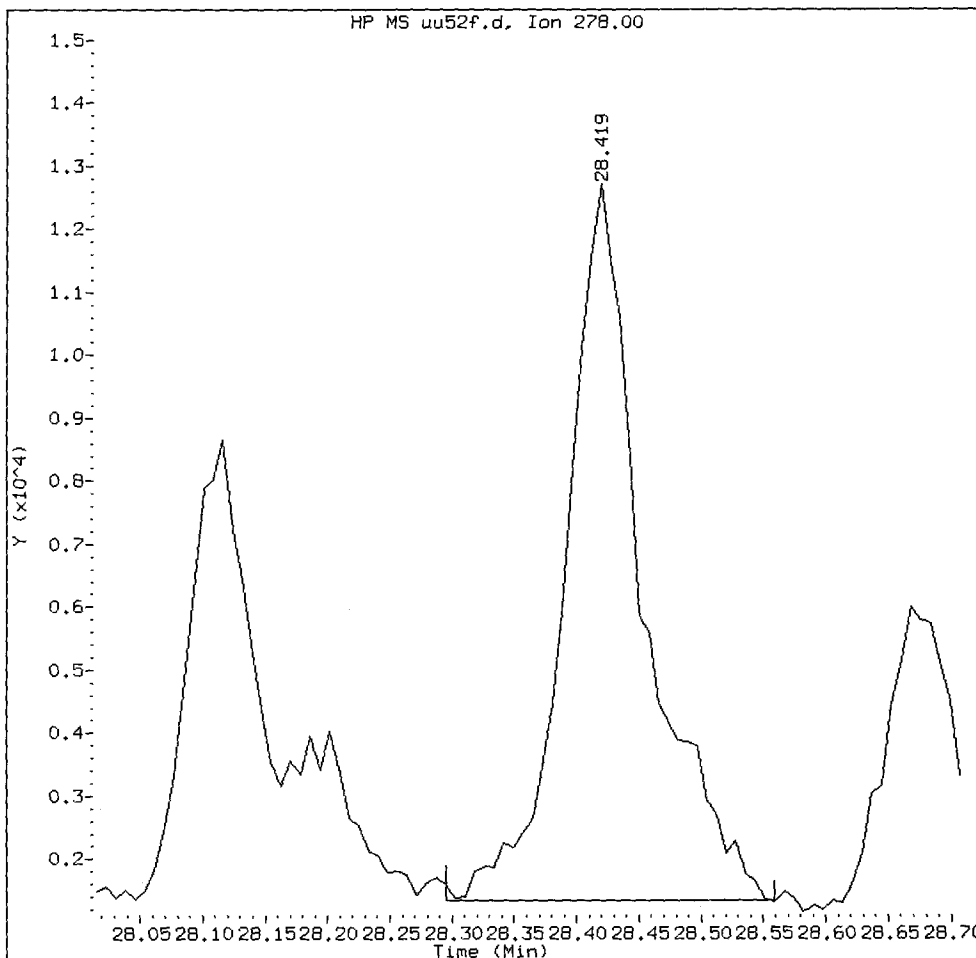
5. Other _____

Analyst: YR

Date: 5/27/12

UU52F, /chem1/nt10.i/20120526.b/uu52f.d

Dibenzo(a,h)anthracene Amount: 0.32 Area: 50459



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

5. Other _____

Analyst: Y2

Date: 5/31/8

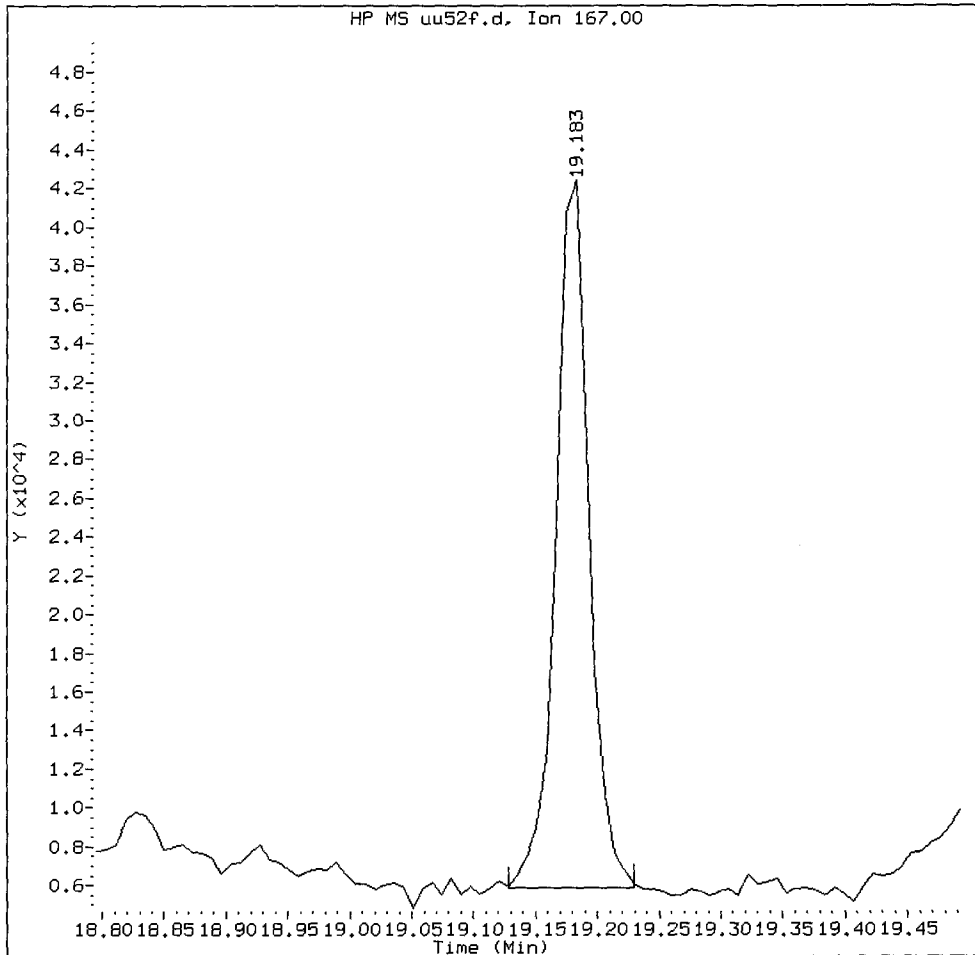
CO-ELUTION SUMMARY FOR FILE - uu52f.d

Lab ID: UU52F, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

UU52F, /chem1/nt10.i/20120526.b/uu52f.d

Carbazole Amount: 0.43 Area: 68755



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 6/4/10

CO-ELUTION SUMMARY FOR FILE - uu52f.d

Lab ID: UU52F, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120526.b/uu52g.d
 Lab Smp Id: UU52G Client Smp ID: MS006-SS-120515
 Inj Date : 26-MAY-2012 20:54
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52G,3
 Misc Info : 12-8899
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 9
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

12 6/4/12

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 109.00000 | Weight of sample extracted (g) |
| M | 90.80000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.575 | 6.537 | (0.742) | 105057 | 1.58443 | 474.0 |
| \$ 2 Phenol-d5 | 99 | 8.268 | 8.237 | (0.933) | 138513 | 1.67701 | 501.7 |
| 3 Phenol | 94 | 8.291 | 8.260 | (0.935) | 113384 | 1.28789 | 385.3 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.476 | (0.959) | 125526 | 1.73468 | 519.0 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.855 | (1.000) | 189614 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.244 | 9.236 | (1.043) | 51412 | 1.08303 | 324.0 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | 9.197 | 9.166 | (1.038) | 13856 | 0.37461 | 112.1 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | 9.461 | 9.430 | (1.067) | 8624 | 0.12429 | 37.18 |
| 17 Hexachloroethane | 117 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | MASS | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|------|--------|--------|---------|-----|------------------------|------------------------|----------------|---------|
| | | | | | | | | | ON-COLUMN | FINAL |
| | | | | | | | | | (ug/mL) | (ug/kg) |
| 16 N-Nitroso-di-n-propylamine | | 70 | | | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | | 108 | 9.756 | 9.725 | (1.101) | | 66646 | 0.92063 | 275.4 | |
| \$ 18 Nitrobenzene-d5 | | 82 | 10.035 | 10.027 | (0.872) | | 74039 | 1.12236 | 335.8 | |
| 19 Nitrobenzene | | 77 | | | | | Compound Not Detected. | | | |
| 20 Isophorone | | 82 | | | | | Compound Not Detected. | | | |
| 21 2-Nitrophenol | | 139 | | | | | Compound Not Detected. | | | |
| 22 2,4-Dimethylphenol | | 107 | | | | | Compound Not Detected. | | | |
| 23 Bis(2-Chloroethoxy)methane | | 93 | | | | | Compound Not Detected. | | | |
| 24 Benzoic acid | | 105 | 11.142 | 11.087 | (0.968) | | 446325 | 10.3712 | 3103 | |
| 25 2,4-Dichlorophenol | | 162 | | | | | Compound Not Detected. | | | |
| 26 1,2,4-Trichlorobenzene | | 180 | | | | | Compound Not Detected. | | | |
| * 27 Naphthalene-d8 | | 136 | 11.512 | 11.504 | (1.000) | | 736251 | 4.00000 | | |
| 28 Naphthalene | | 128 | 11.550 | 11.542 | (1.003) | | 3899177 | 21.0075 | 6285 | |
| 29 4-Chloroaniline | | 127 | | | | | Compound Not Detected. | | | |
| 30 Hexachlorobutadiene | | 225 | | | | | Compound Not Detected. | | | |
| 31 4-Chloro-3-methylphenol | | 107 | | | | | Compound Not Detected. | | | |
| 32 2-Methylnaphthalene | | 142 | 13.051 | 13.043 | (1.134) | | 257956 | 1.99915 | 598.1 | |
| 33 Hexachlorocyclopentadiene | | 237 | | | | | Compound Not Detected. | | | |
| 34 2,4,6-Trichlorophenol | | 196 | | | | | Compound Not Detected. | | | |
| 35 2,4,5-Trichlorophenol | | 196 | | | | | Compound Not Detected. | | | |
| \$ 36 2-Fluorobiphenyl | | 172 | 13.910 | 13.902 | (0.904) | | 175818 | 1.18865 | 355.6 | |
| 37 2-Chloronaphthalene | | 162 | | | | | Compound Not Detected. | | | |
| 38 2-Nitroaniline | | 65 | | | | | Compound Not Detected. | | | |
| 39 Dimethylphthalate | | 163 | | | | | Compound Not Detected. | | | |
| 40 Acenaphthylene | | 152 | 15.040 | 15.032 | (0.978) | | 143385 | 0.74822 | 223.8 (M) | |
| 41 2,6-Dinitrotoluene | | 165 | | | | | Compound Not Detected. | | | |
| * 42 Acenaphthene-d10 | | 164 | 15.380 | 15.373 | (1.000) | | 426687 | 4.00000 | | |
| 43 3-Nitroaniline | | 138 | | | | | Compound Not Detected. | | | |
| 44 Acenaphthene | | 153 | 15.450 | 15.442 | (1.005) | | 43851 | 0.37937 | 113.5 | |
| 45 2,4-Dinitrophenol | | 184 | | | | | Compound Not Detected. | | | |
| 46 Dibenzofuran | | 168 | 15.806 | 15.798 | (1.028) | | 274573 | 1.62142 | 485.1 | |
| 47 4-Nitrophenol | | 109 | | | | | Compound Not Detected. | | | |
| 48 2,4-Dinitrotoluene | | 165 | | | | | Compound Not Detected. | | | |
| 50 Diethylphthalate | | 149 | | | | | Compound Not Detected. | | | |
| 49 Fluorene | | 166 | 16.579 | 16.563 | (1.078) | | 57199 | 0.44083 | 131.9 | |
| 51 4-Chlorophenyl-phenylether | | 204 | | | | | Compound Not Detected. | | | |
| 52 4-Nitroaniline | | 138 | | | | | Compound Not Detected. | | | |
| 53 4,6-Dinitro-2-methylphenol | | 198 | | | | | Compound Not Detected. | | | |
| 54 N-Nitrosodiphenylamine | | 169 | | | | | Compound Not Detected. | | | |
| \$ 55 2,4,6-Tribromophenol | | 330 | 17.157 | 17.142 | (1.116) | | 38566 | 2.18981 | 655.1 | |
| 56 4-Bromophenyl-phenylether | | 248 | | | | | Compound Not Detected. | | | |
| 57 Hexachlorobenzene | | 284 | | | | | Compound Not Detected. | | | |
| 58 Pentachlorophenol | | 266 | | | | | Compound Not Detected. | | | |
| * 59 Phenanthrene-d10 | | 188 | 18.649 | 18.633 | (1.000) | | 605251 | 4.00000 | | |
| 60 Phenanthrene | | 178 | 18.703 | 18.687 | (1.003) | | 1146010 | 7.34289 | 2197 (M) | |
| 61 Anthracene | | 178 | 18.796 | 18.780 | (1.008) | | 122937 | 0.75404 | 225.6 | |
| 62 Carbazole | | 167 | 19.167 | 19.144 | (1.028) | | 48791 | 0.32343 | 96.76 (M) | |
| 63 Di-n-butylphthalate | | 149 | | | | | Compound Not Detected. | | | |

| Compounds | QUANT SIG | | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|------------------------|--------|----------------|----------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 64 Fluoranthene | 202 | 21.117 | 21.101 | (1.132) | 1034302 | 5.83681 | 1746 | |
| 65 Pyrene | 202 | 21.535 | 21.519 | (0.908) | 969610 | 4.57760 | 1369 | |
| \$ 66 Terphenyl-d14 | 244 | 21.852 | 21.844 | (0.921) | 163934 | 1.23546 | 369.6 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo(a)anthracene | 228 | 23.695 | 23.679 | (0.999) | 150488 | 0.76850 | 229.9 | |
| * 69 Chrysene-d12 | 240 | 23.718 | 23.710 | (1.000) | 696152 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.764 | 23.749 | (1.002) | 238255 | 1.38308 | 413.8 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.818 | (0.961) | 61323 | 0.41293 | 123.5 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.810 | 24.794 | (1.000) | 1081407 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo(a)pyrene | 252 | 26.025 | 26.002 | (0.996) | 141417 | 0.83008 | 248.3 | |
| * 77 Perylene-d12 | 264 | 26.134 | 26.102 | (1.000) | 658886 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.388 | 28.342 | (1.086) | 145103 | 0.73631 | 220.3 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.404 | 28.365 | (1.087) | 28561 | 0.18398 | 55.04 (M) | |
| 80 Benzo(g,h,i)perylene | 276 | 29.056 | 29.002 | (1.112) | 177007 | 1.04745 | 313.4 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.283 | 13.275 | (1.154) | 147277 | 1.11919 | 334.8 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.468 | 25.483 | (0.975) | 398082 | 2.17742 | 651.4 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.139 | 22.131 | (0.933) | 91096 | 0.92357 | 276.3 | |

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: uu52g.d
 Lab Smp Id: UU52G
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8899

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS006-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 189614 | 0.05 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 736251 | 0.73 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 426687 | 1.42 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 605251 | -5.27 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 696152 | 7.92 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1081407 | 6.43 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 658886 | 1.36 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.51 | 0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.38 | 0.05 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.65 | 0.08 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.72 | 0.03 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.81 | 0.06 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.13 | 0.12 |

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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52G | Client Smp ID: MS006-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8899 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 747.9 | 474.0 | 63.38 | 30-160 |
| \$ 2 Phenol-d5 | 747.9 | 501.7 | 67.08 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 747.9 | 519.0 | 69.39 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 498.6 | 324.0 | 64.98 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 498.6 | 335.8 | 67.34 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 498.6 | 355.6 | 71.32 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 747.9 | 655.1 | 87.59 | 30-160 |
| \$ 66 Terphenyl-d14 | 498.6 | 369.6 | 74.13 | 30-160 |

Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

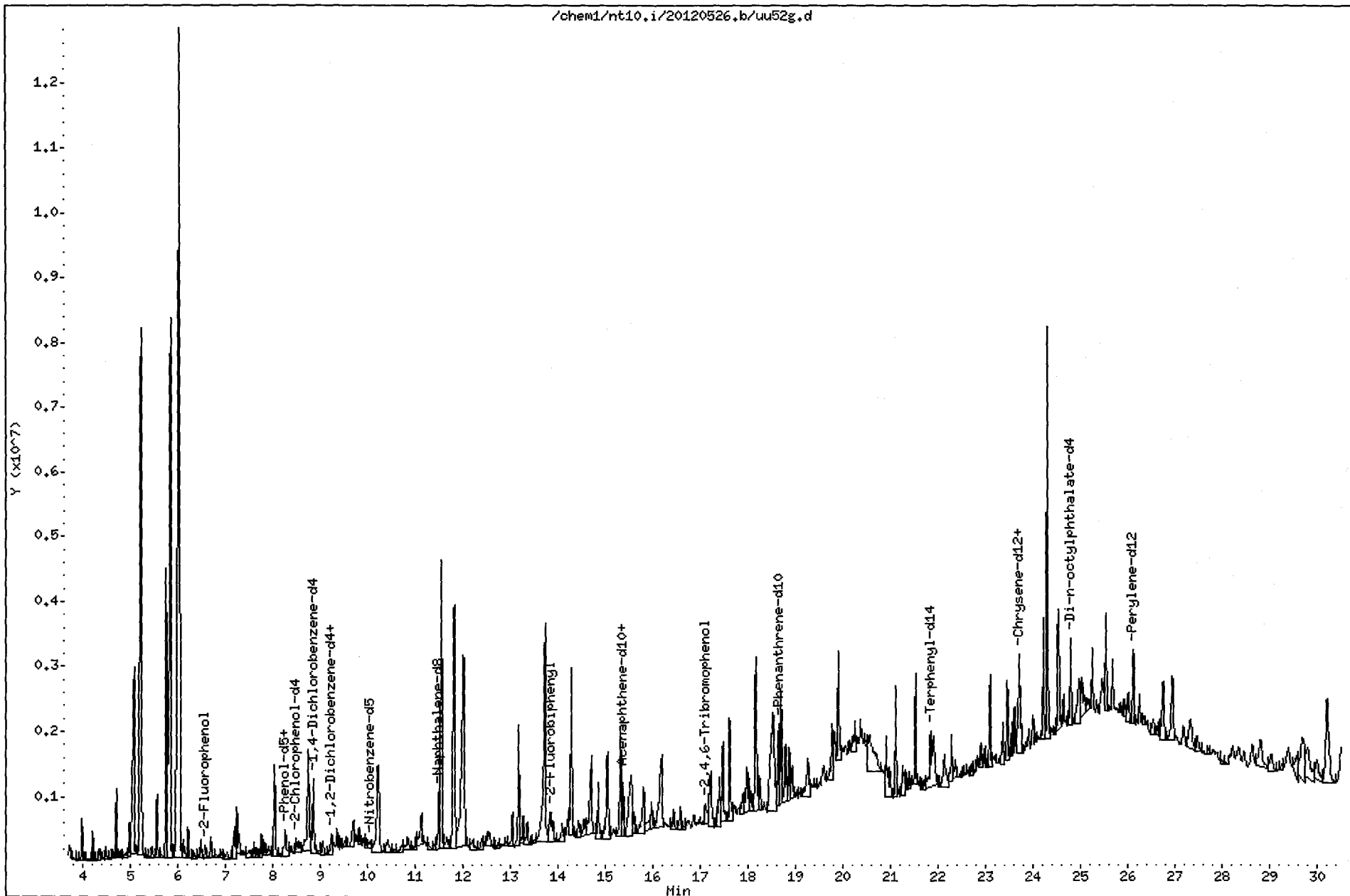
Sample Info: UU52G,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UU52:00501

Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL); 1.0

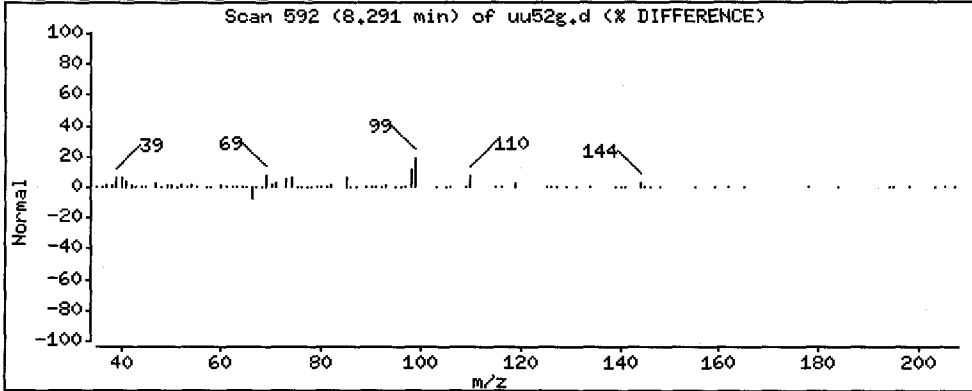
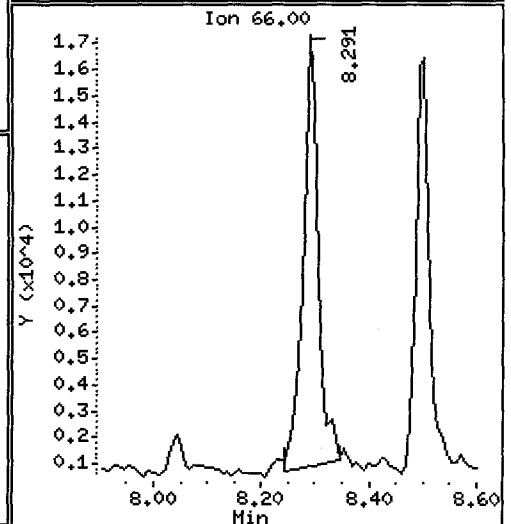
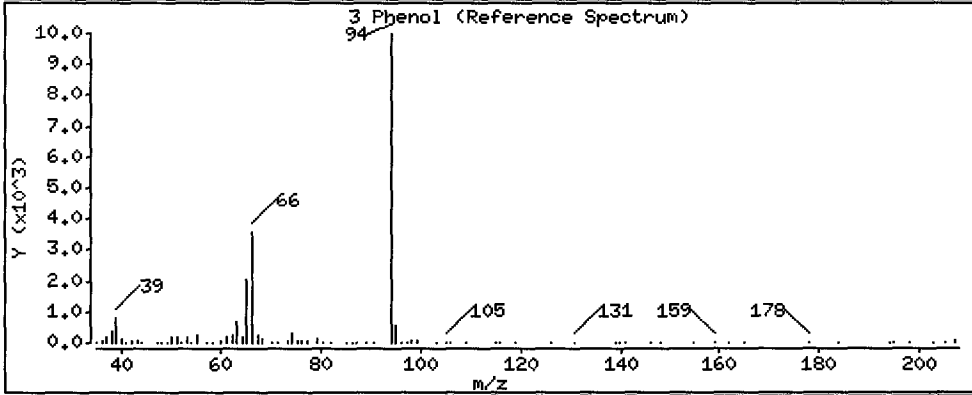
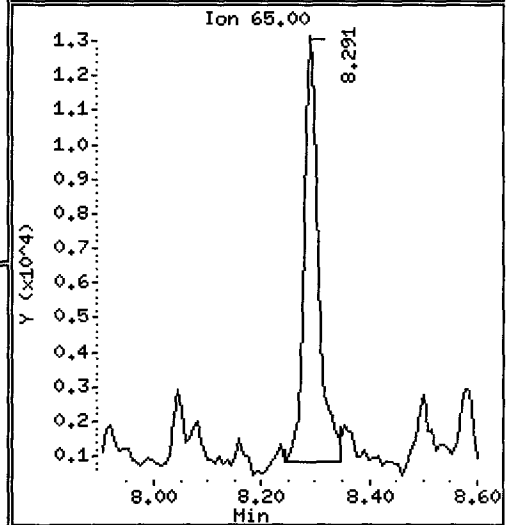
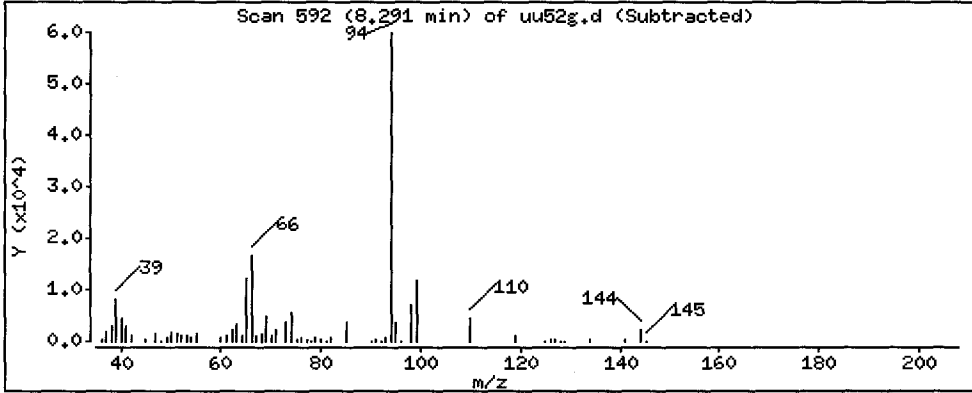
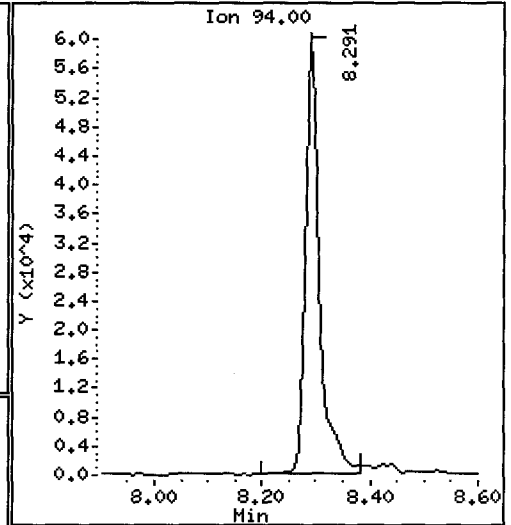
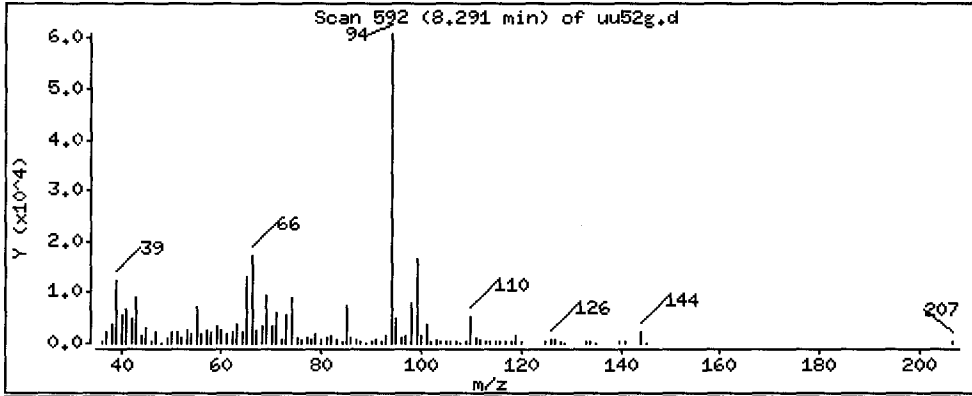
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 385.3 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

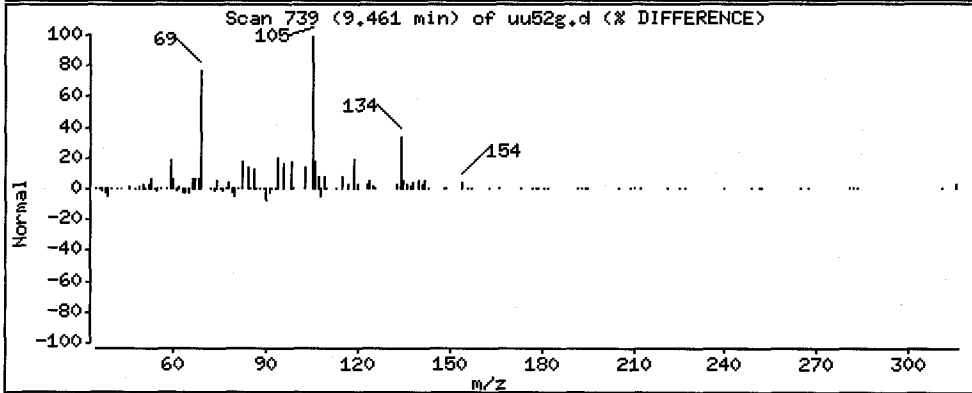
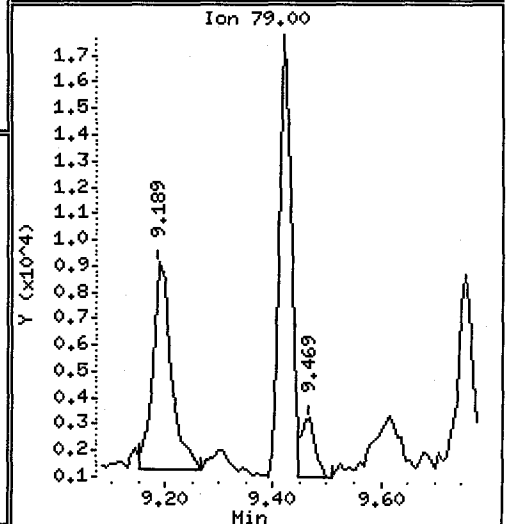
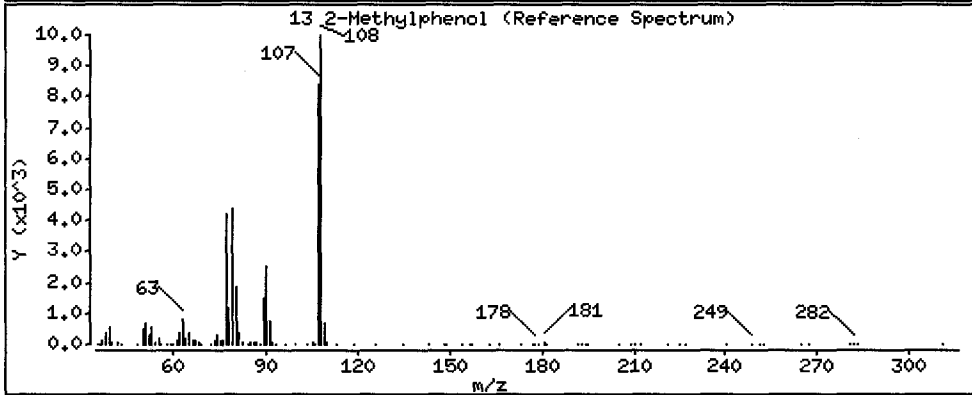
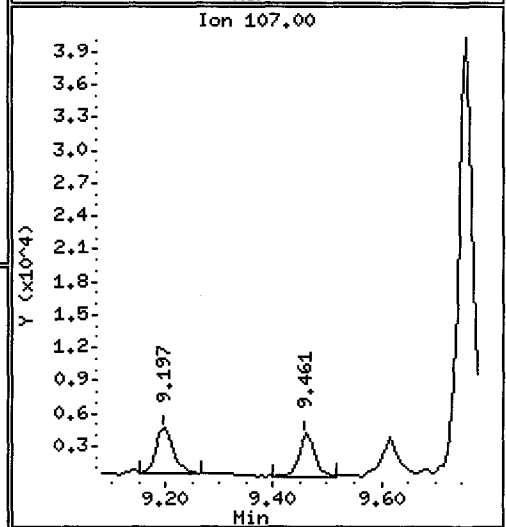
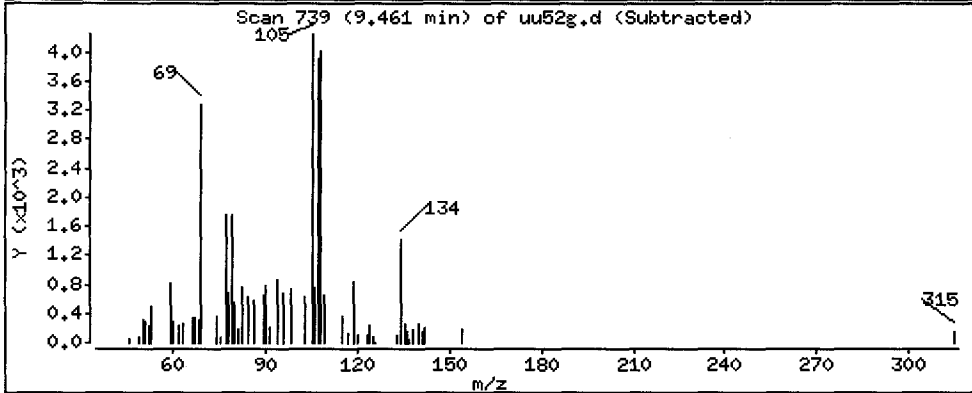
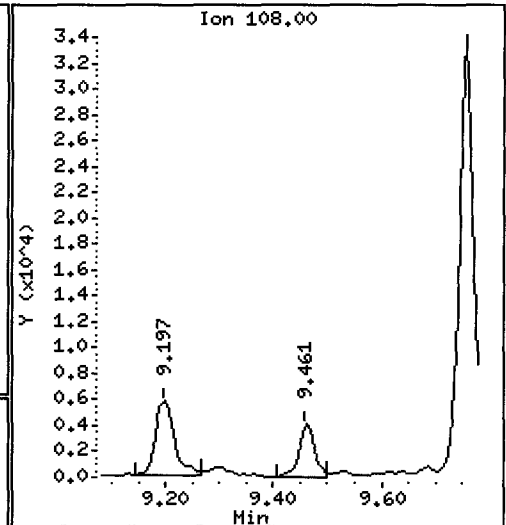
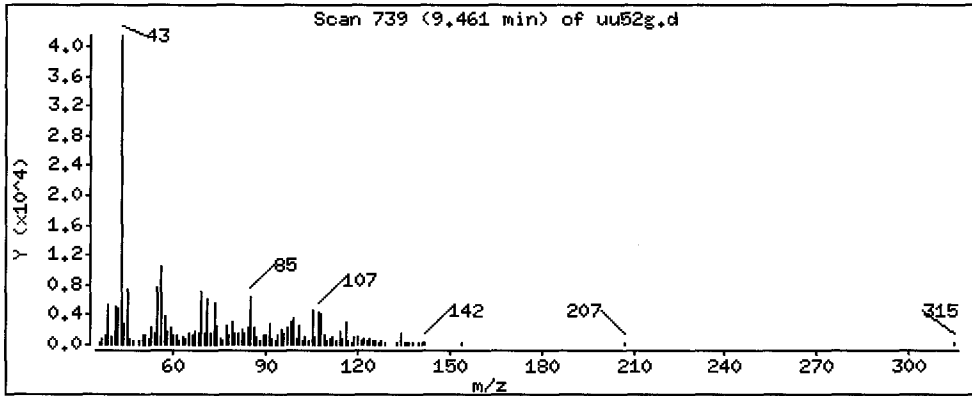
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 37.18 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

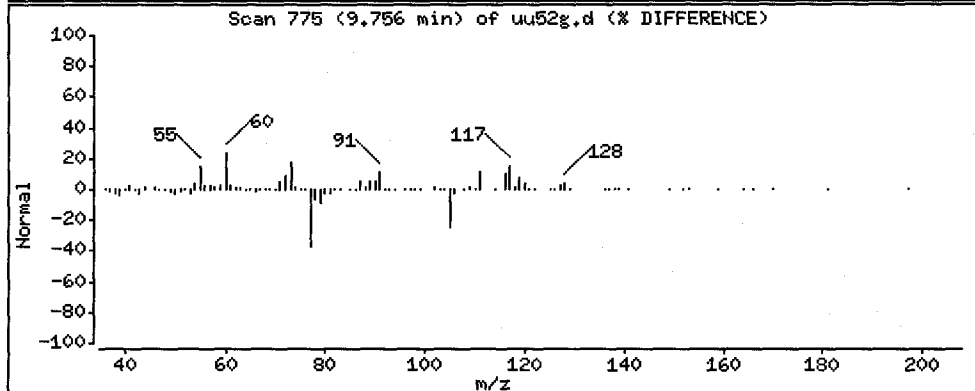
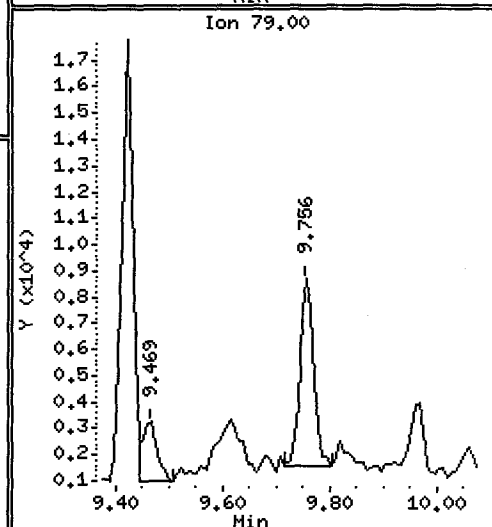
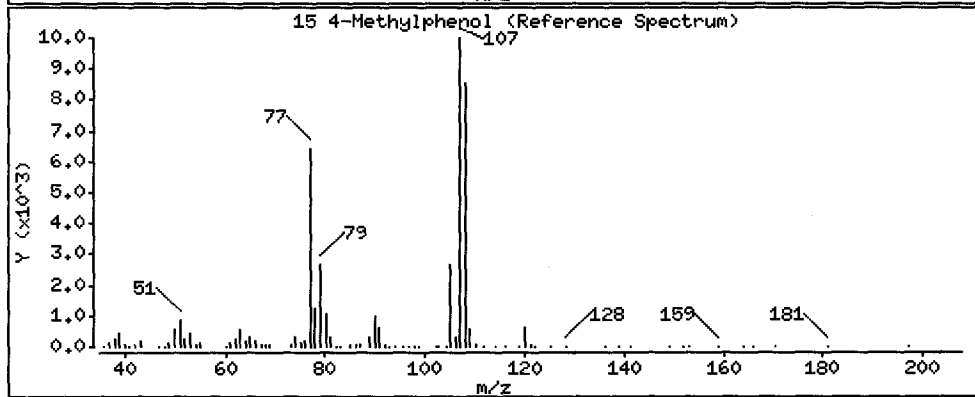
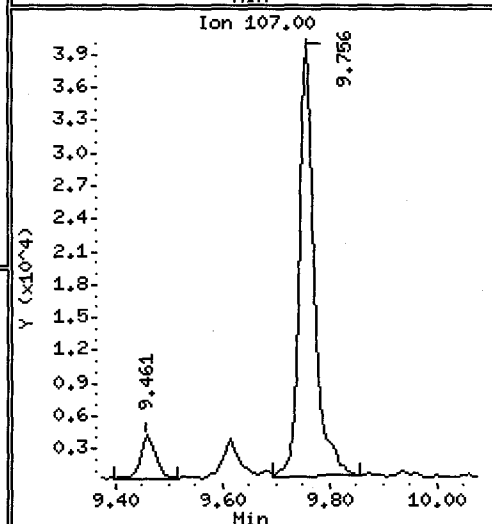
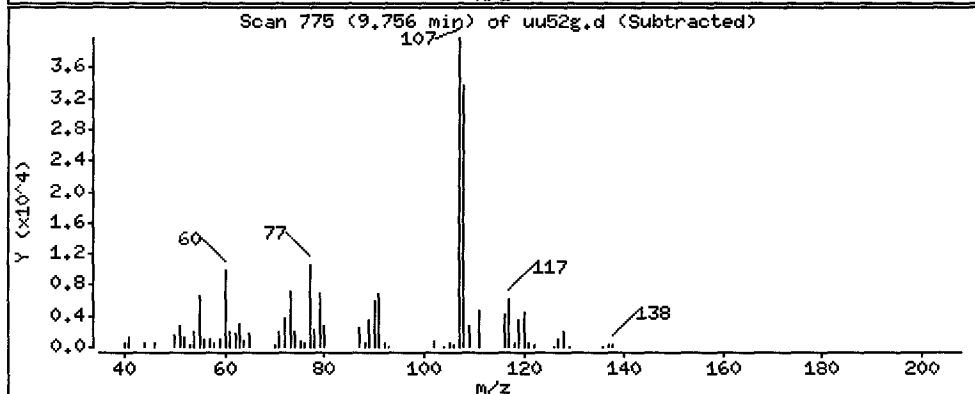
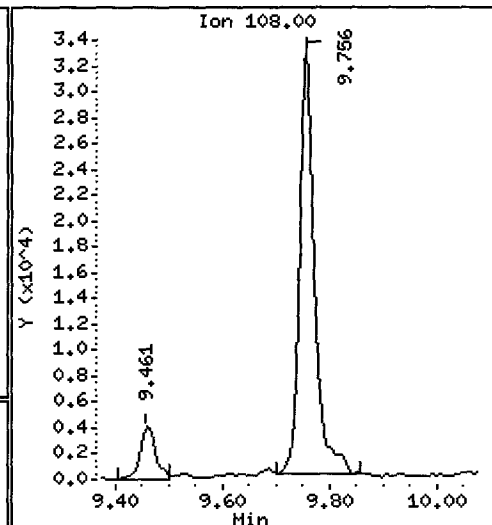
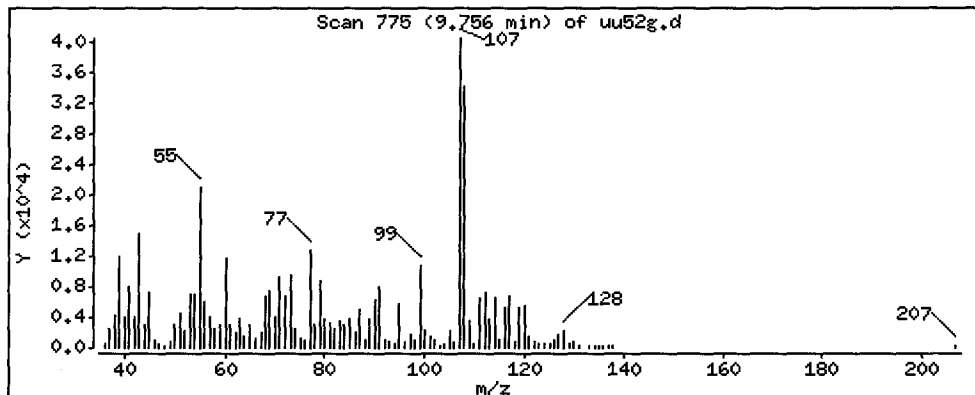
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 275.4 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

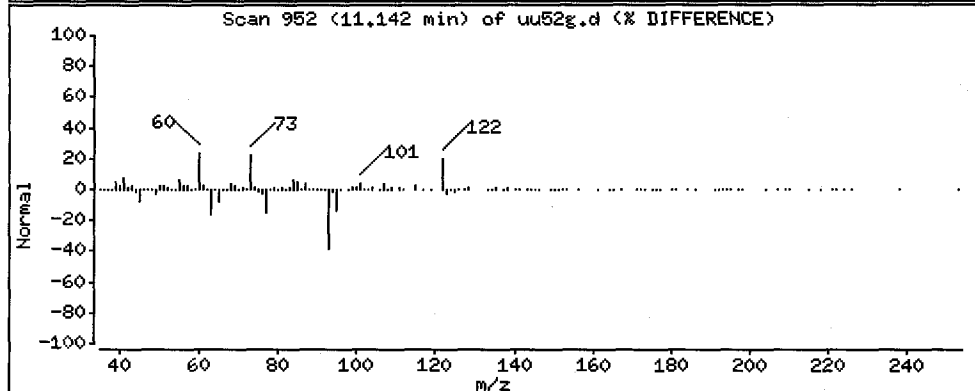
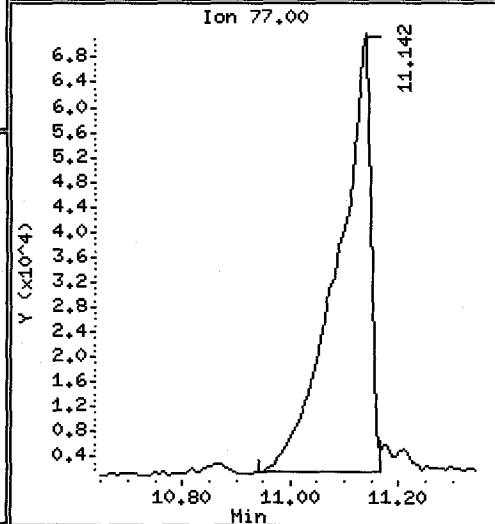
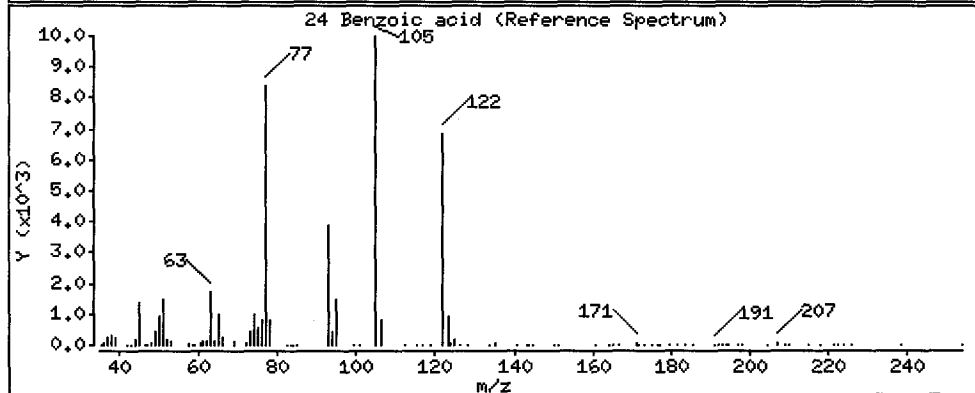
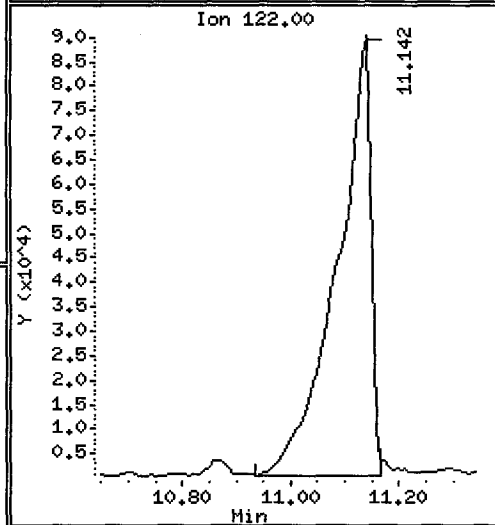
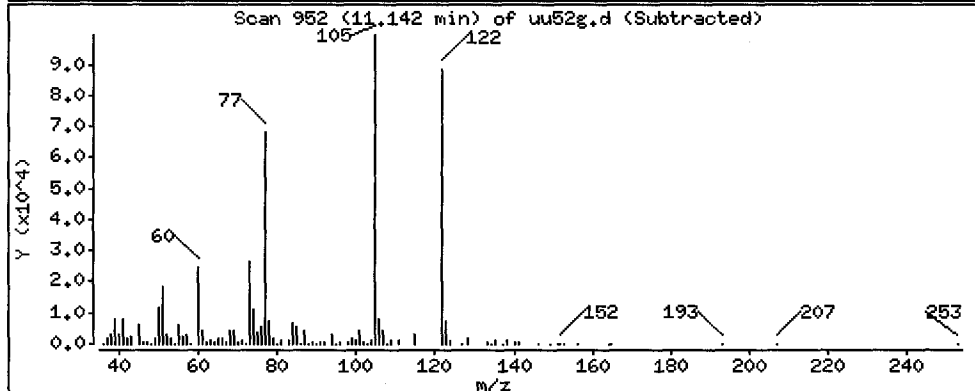
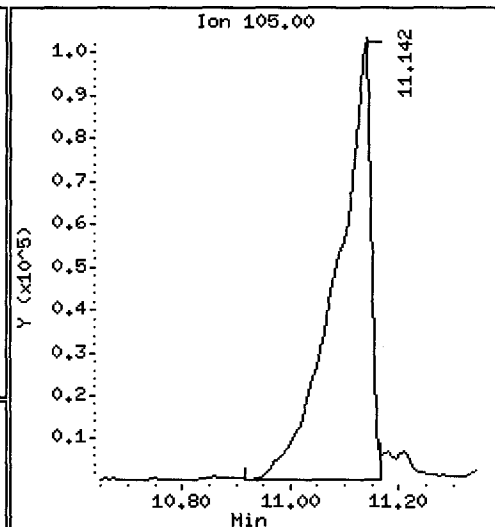
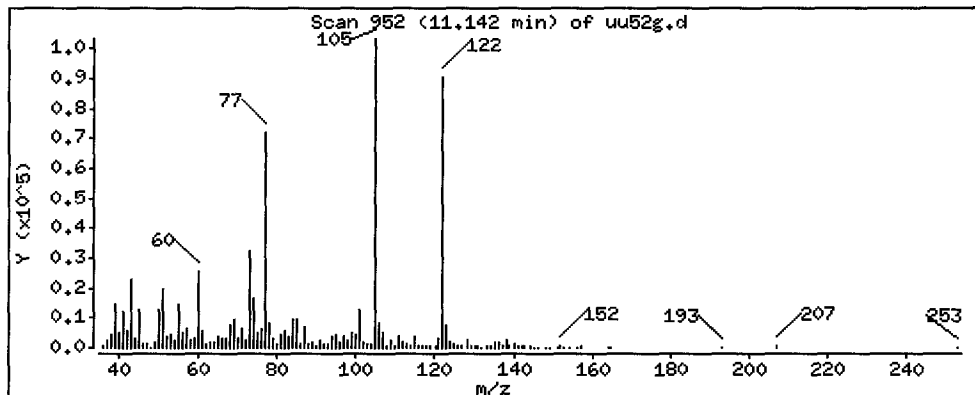
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 3103 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

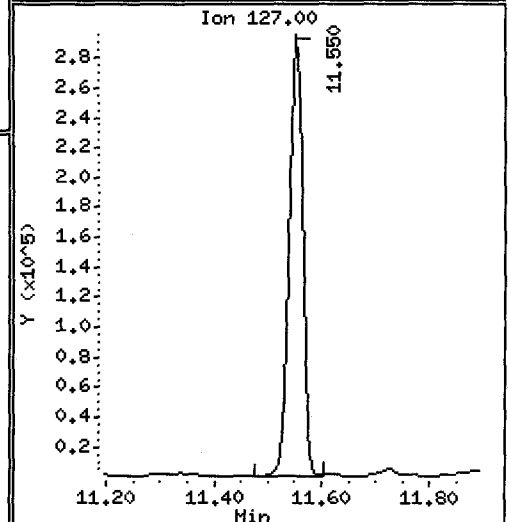
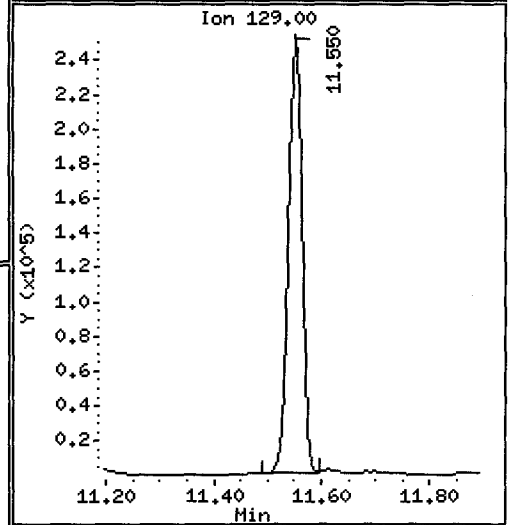
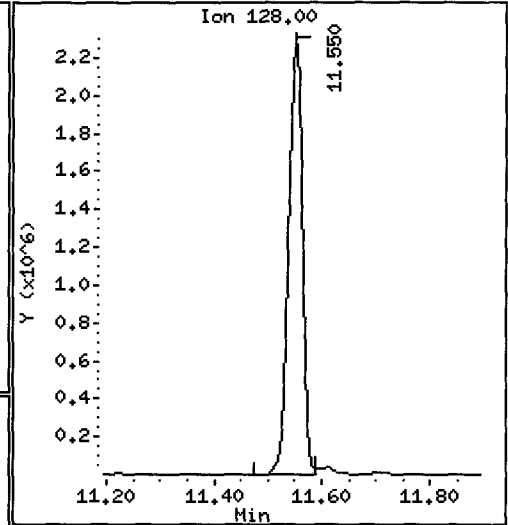
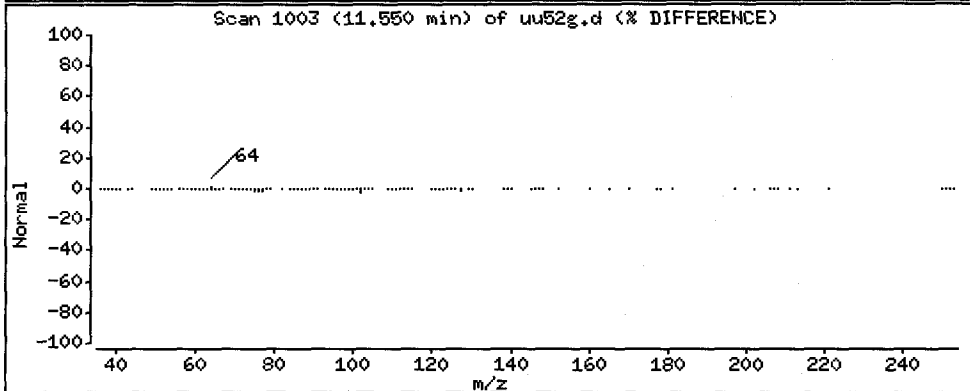
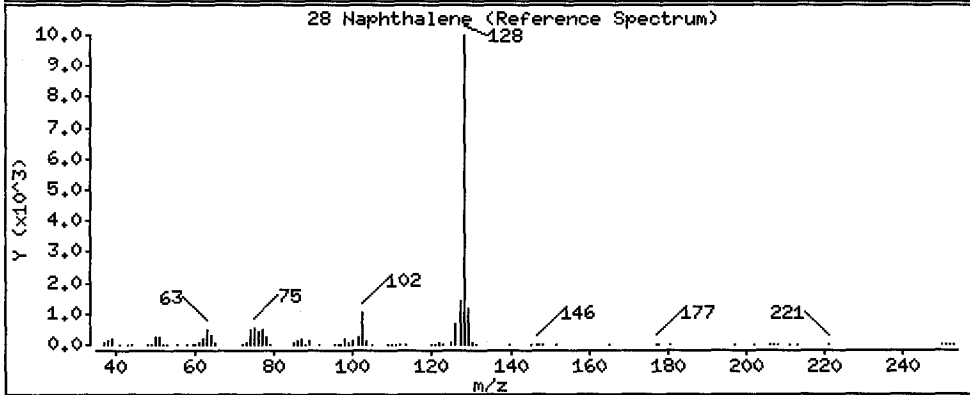
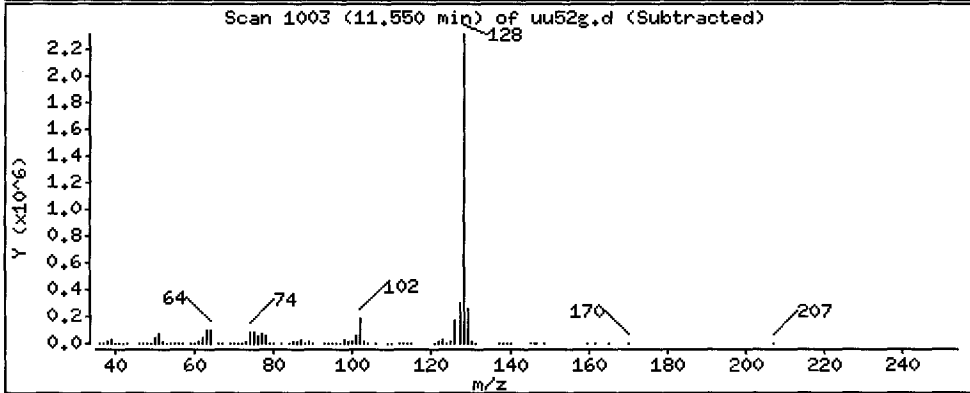
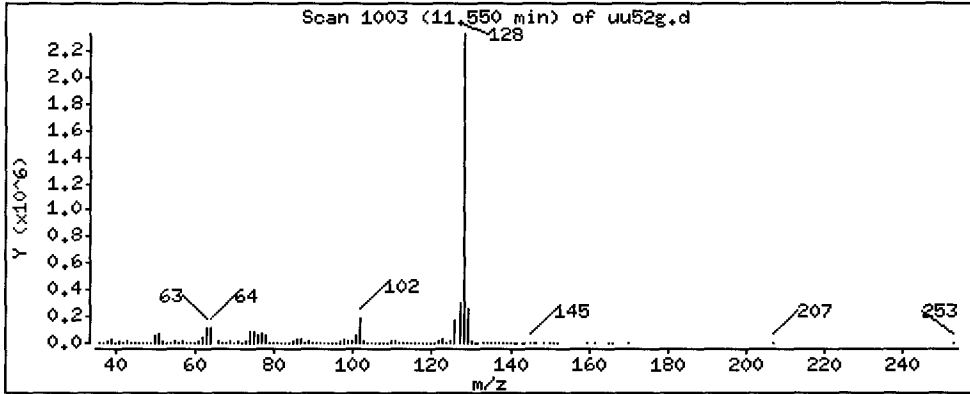
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 6285 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

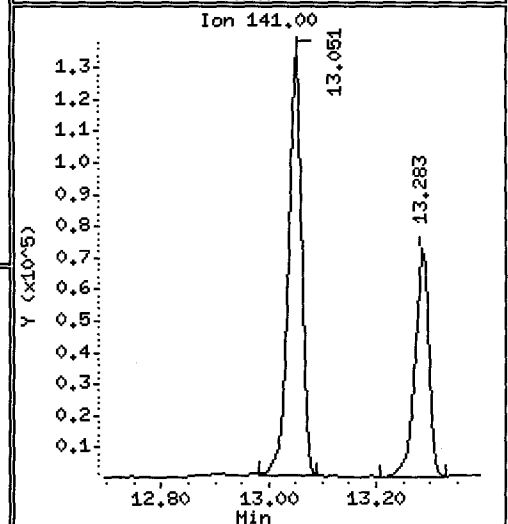
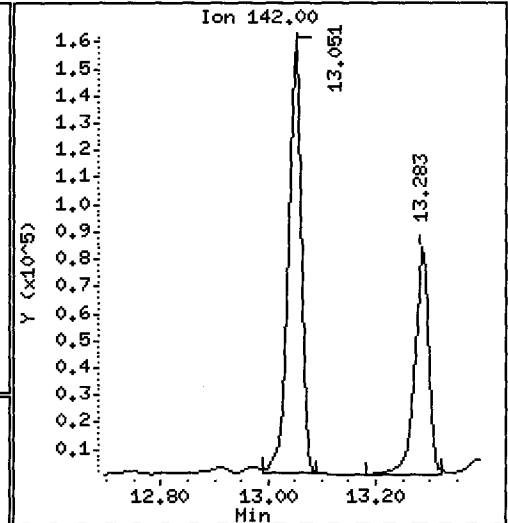
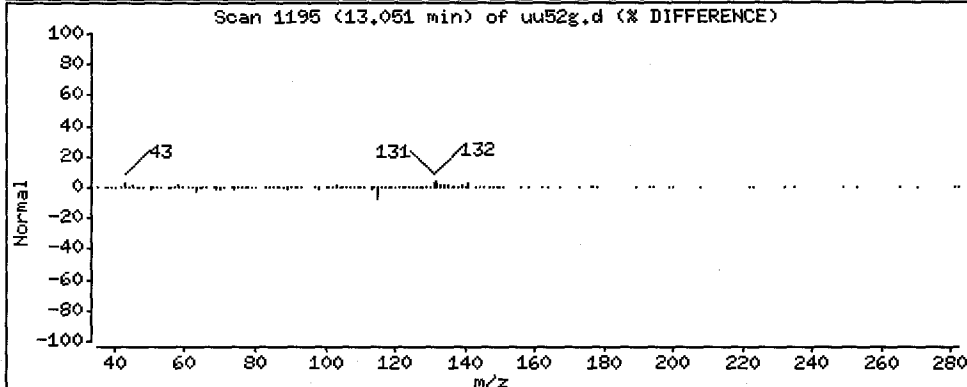
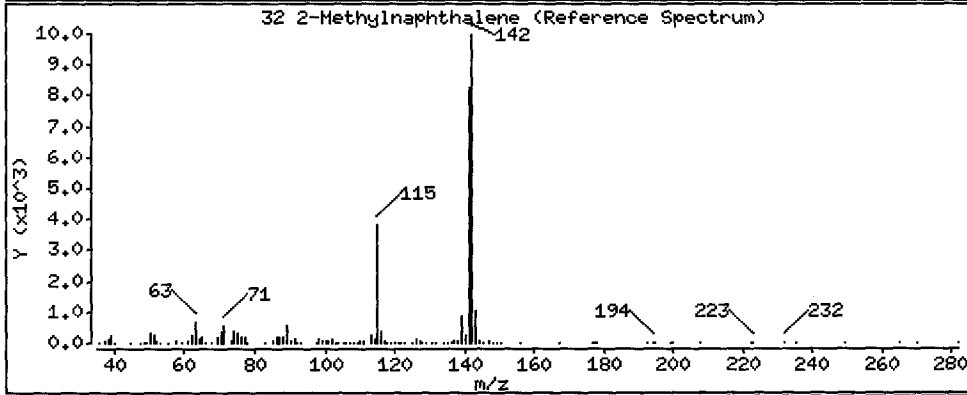
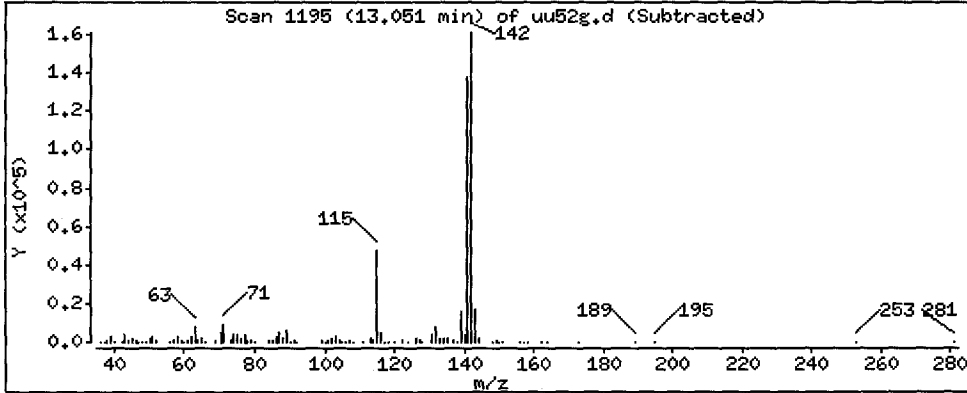
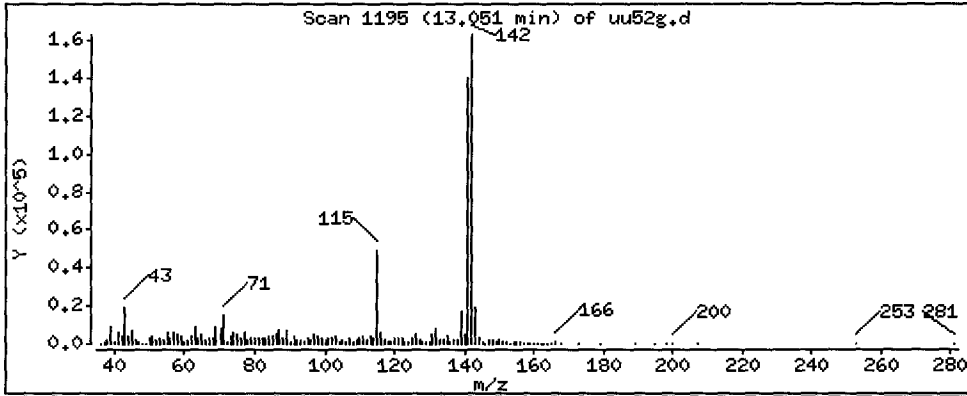
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 598.1 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

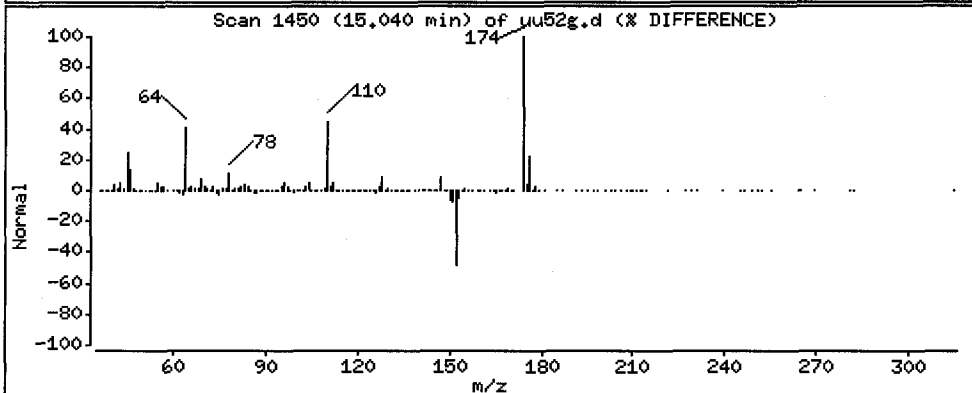
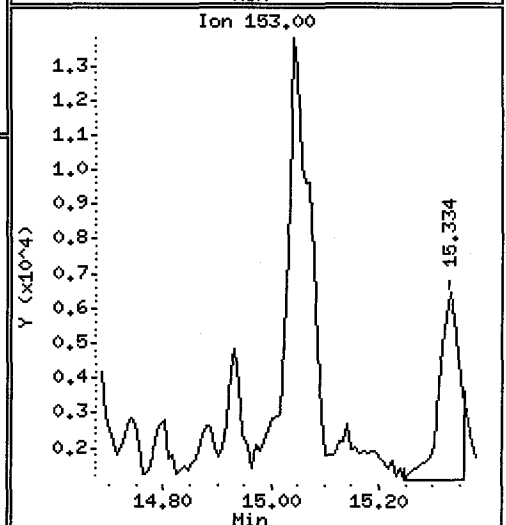
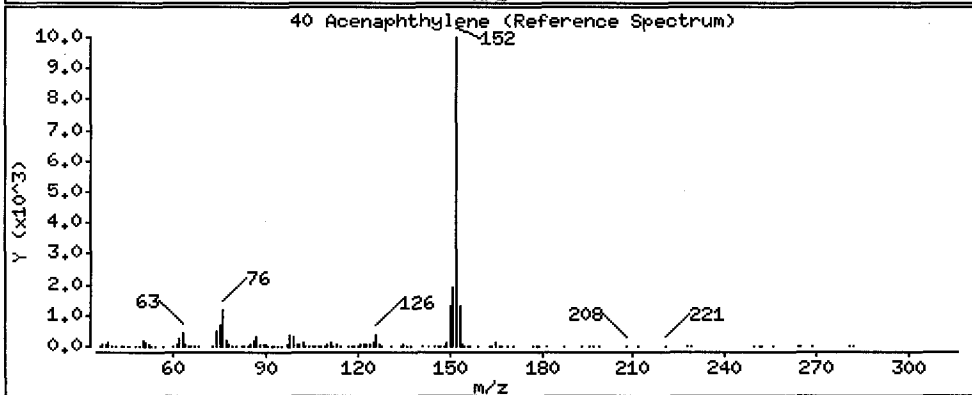
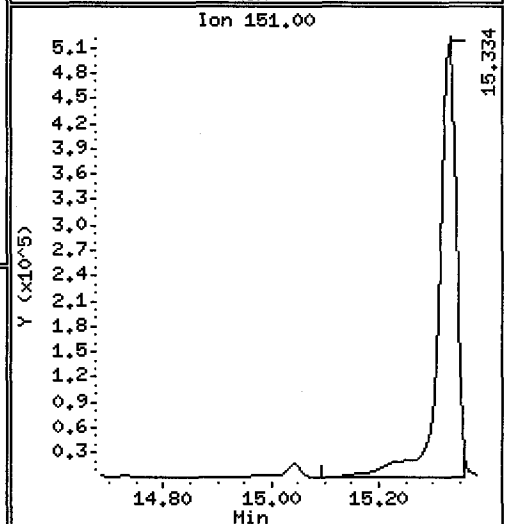
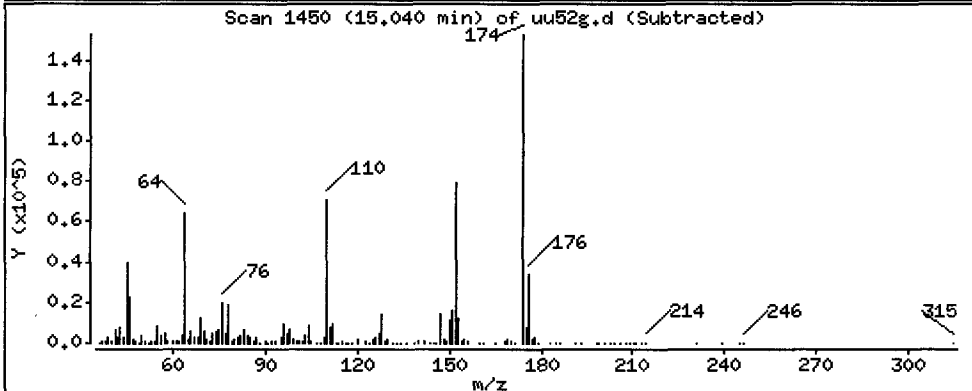
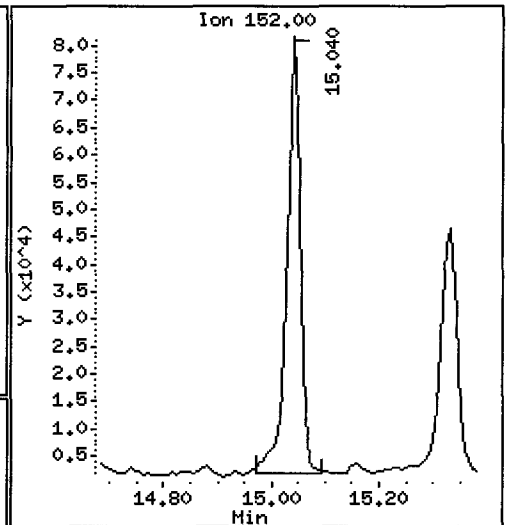
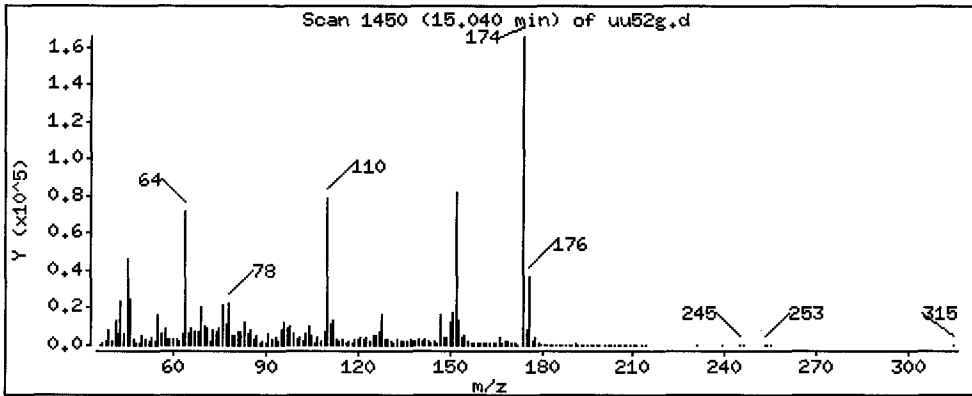
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 223.8 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

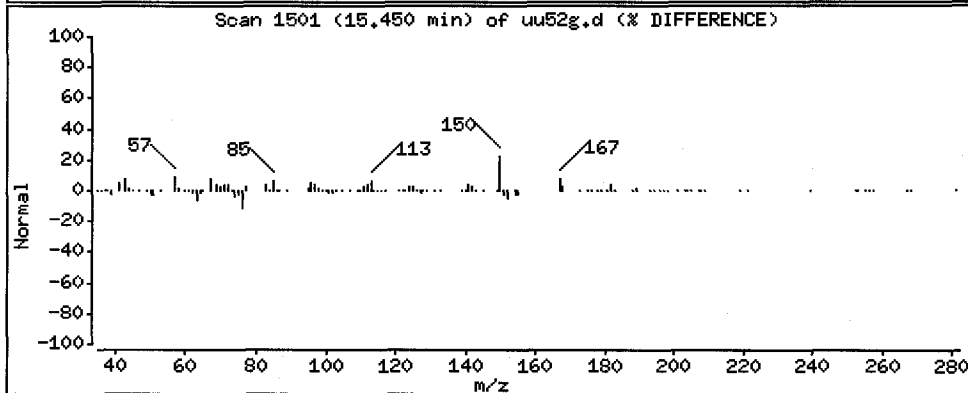
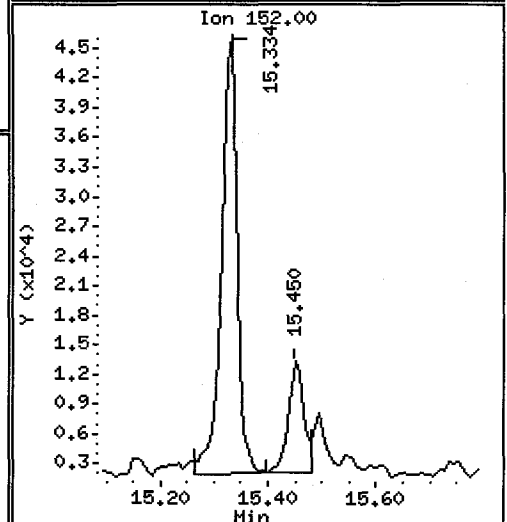
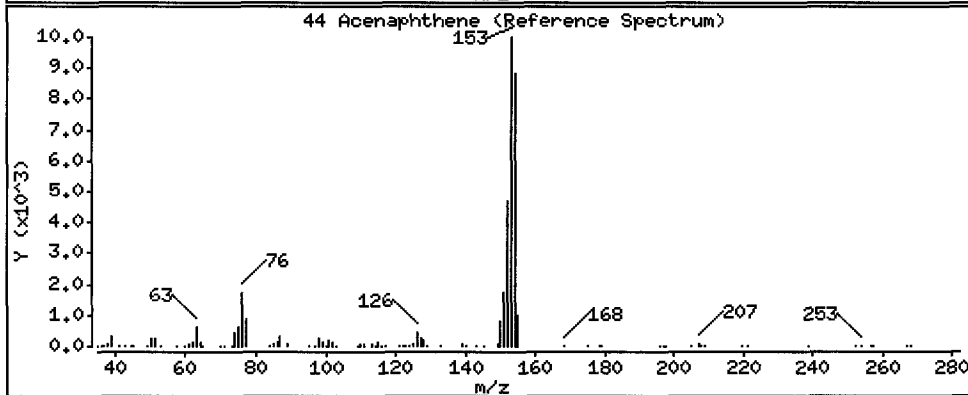
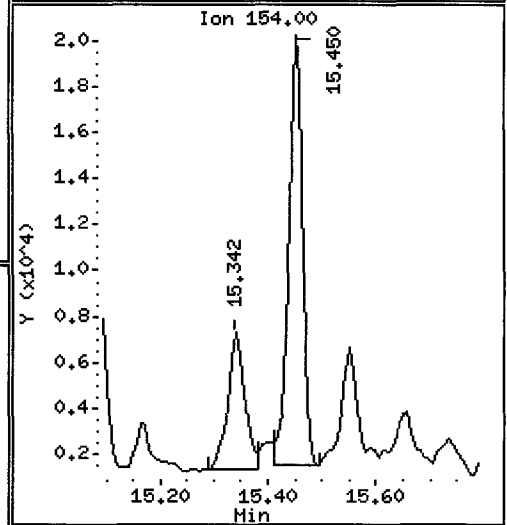
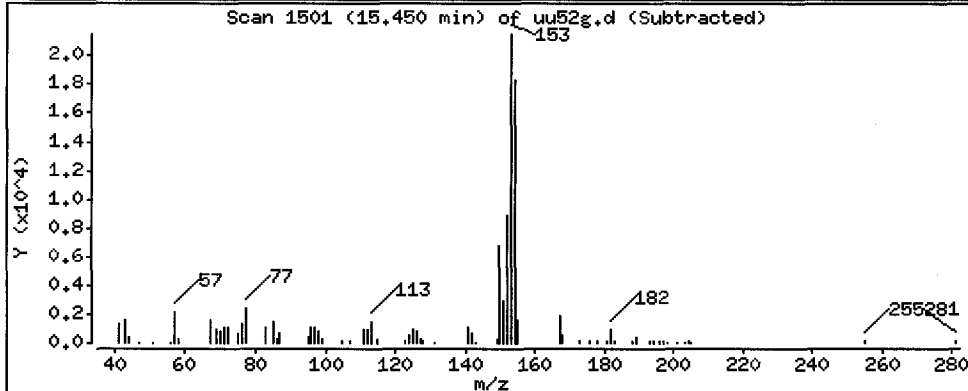
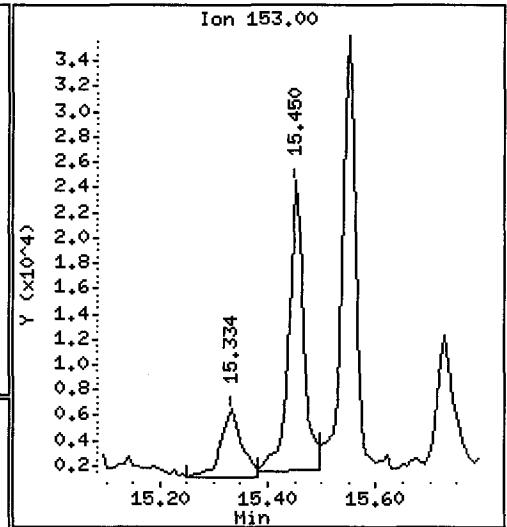
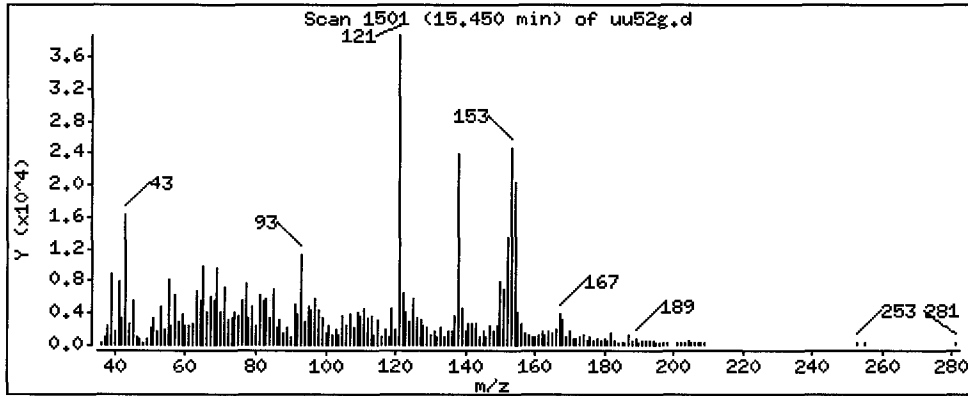
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 113.5 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

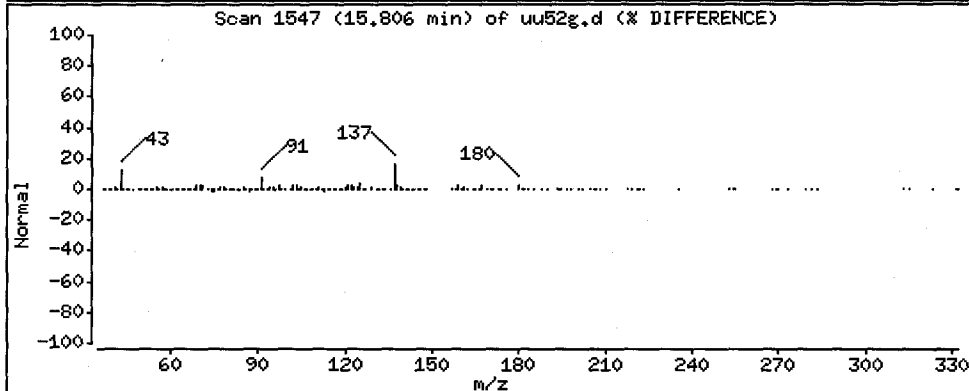
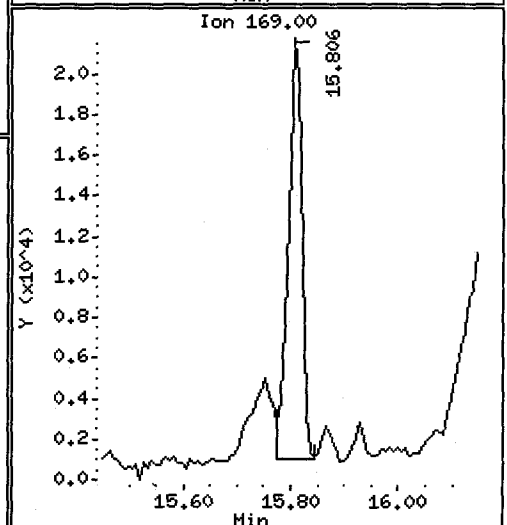
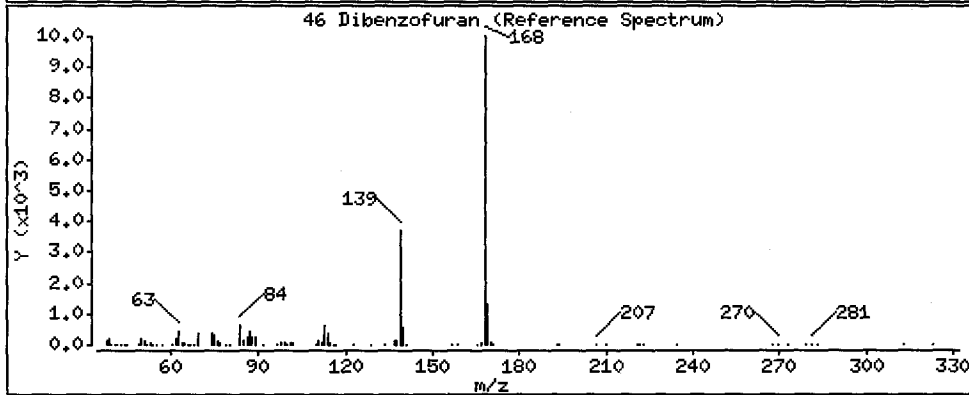
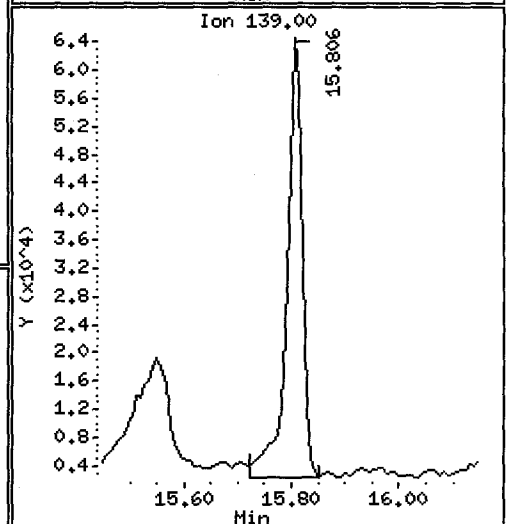
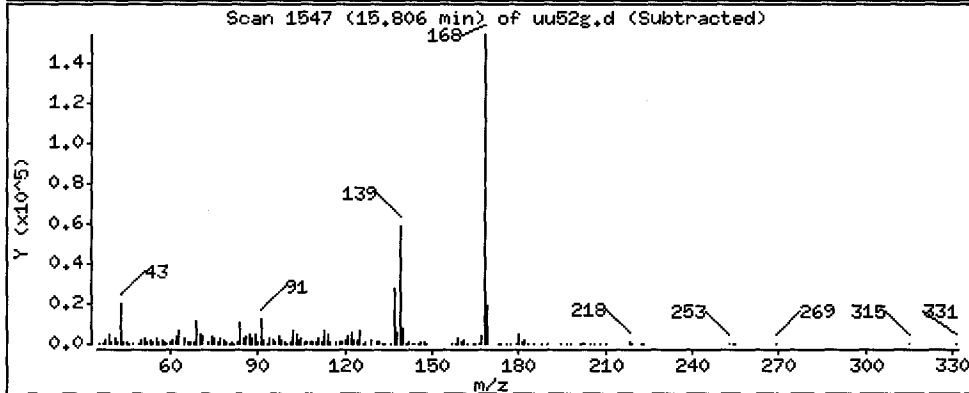
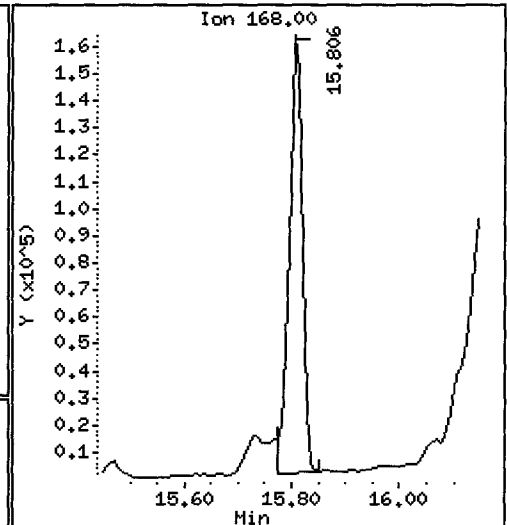
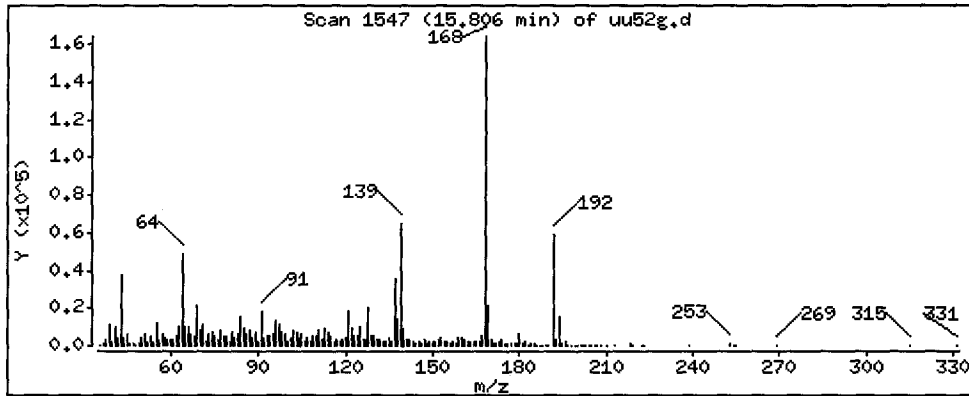
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 485.1 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

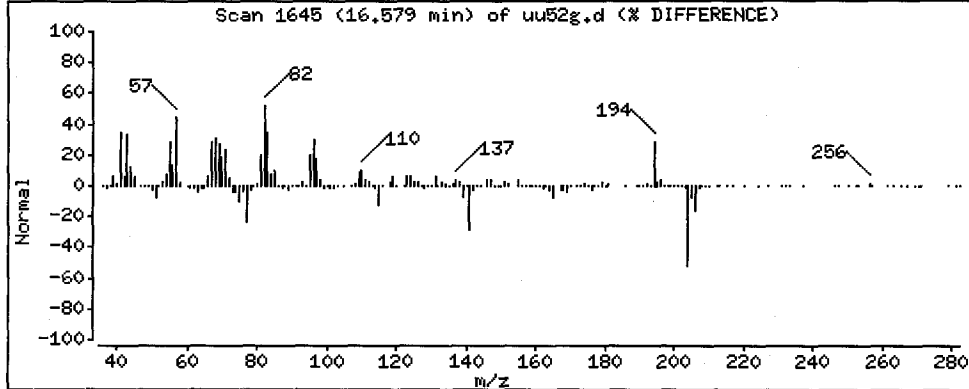
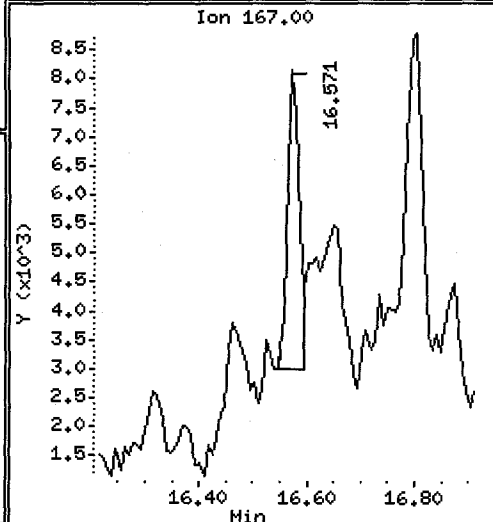
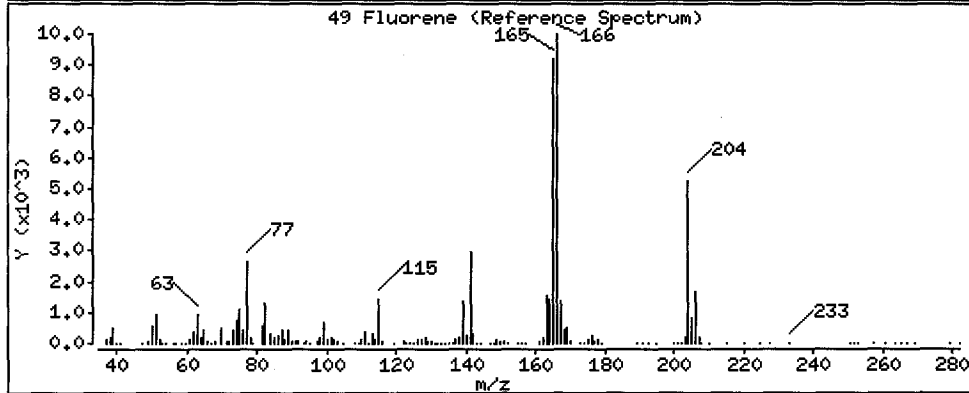
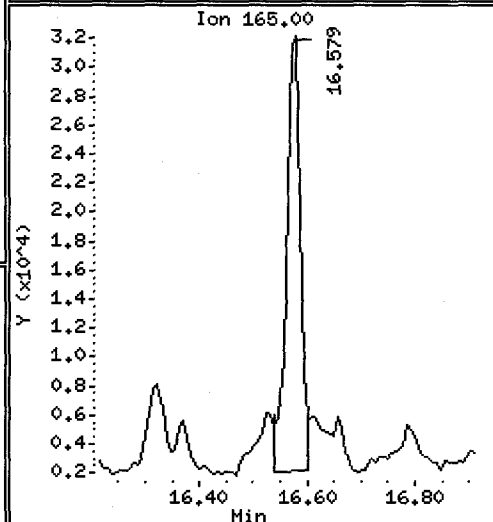
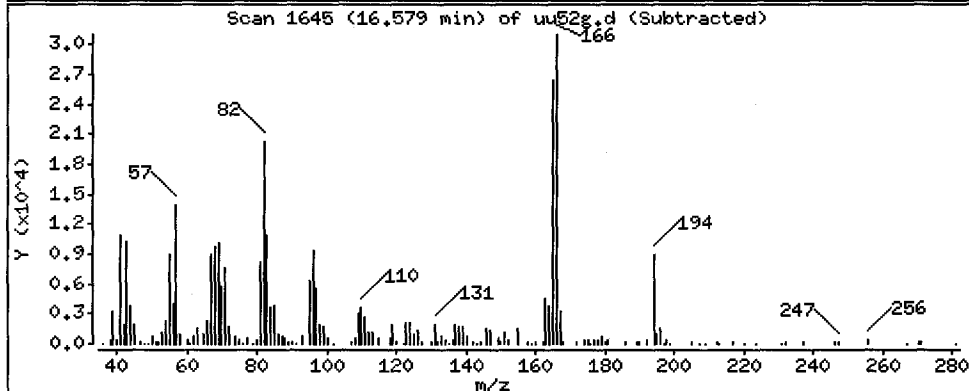
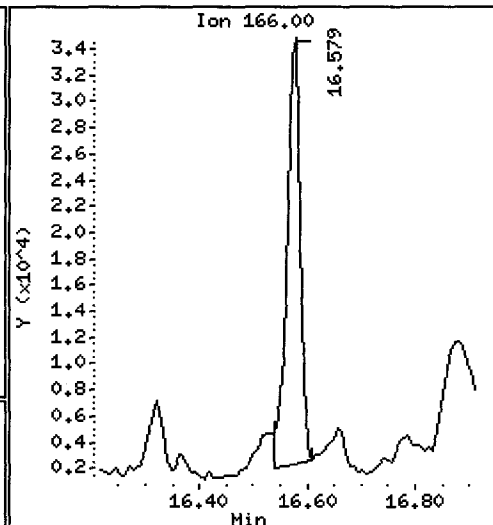
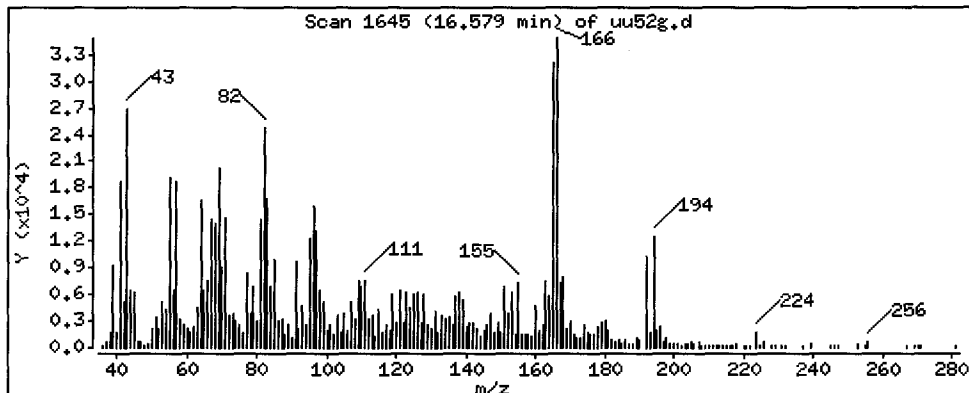
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 131.9 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

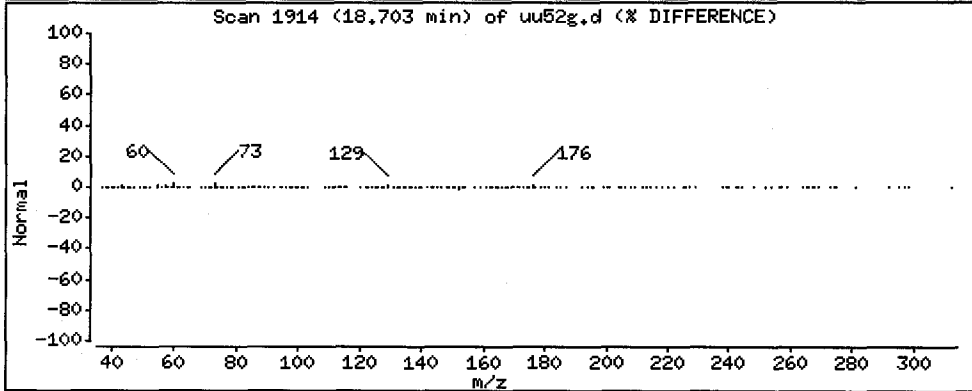
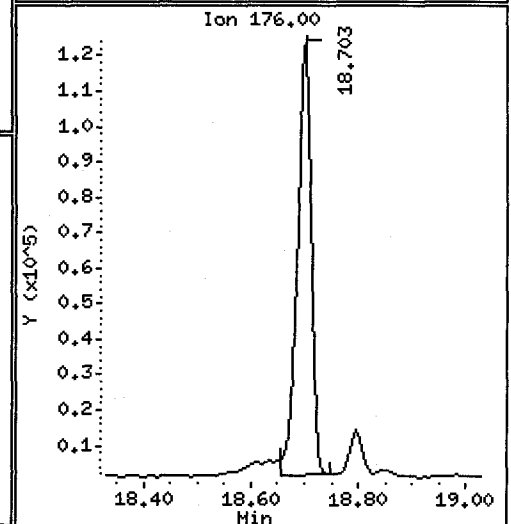
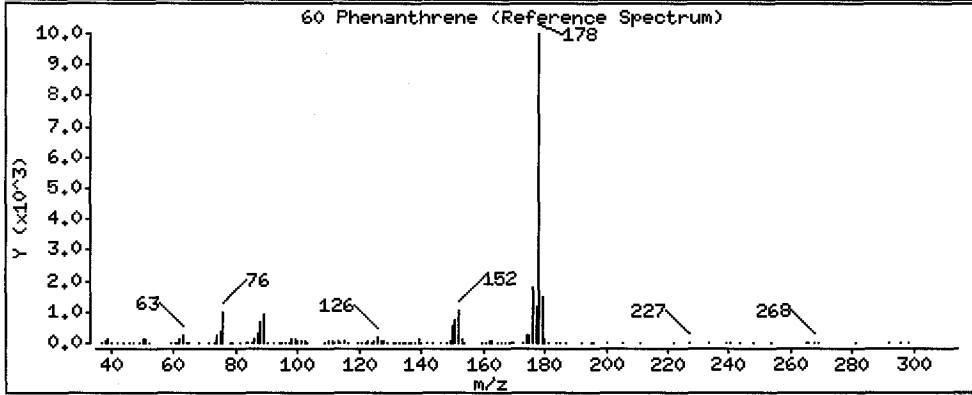
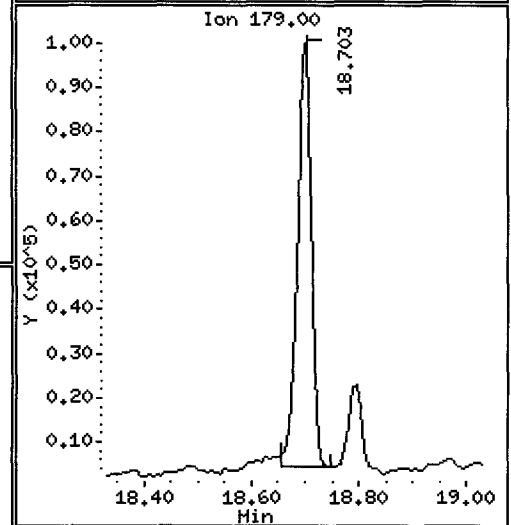
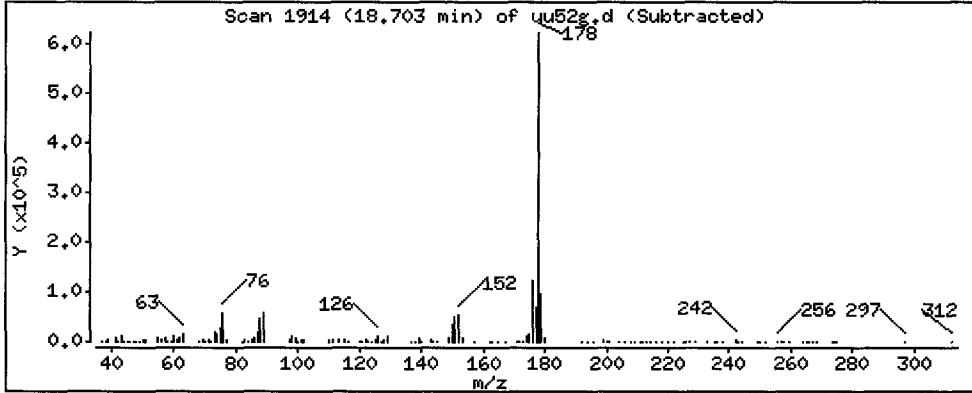
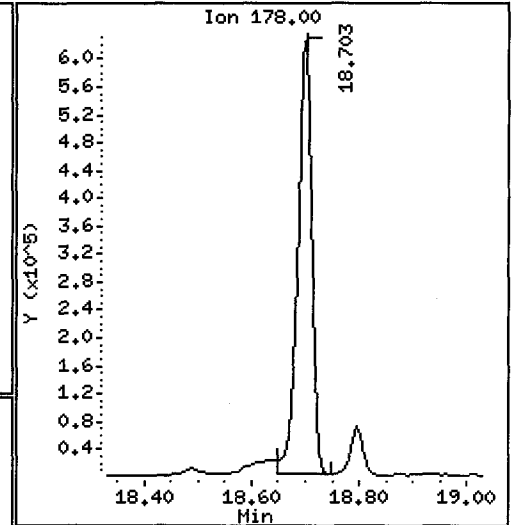
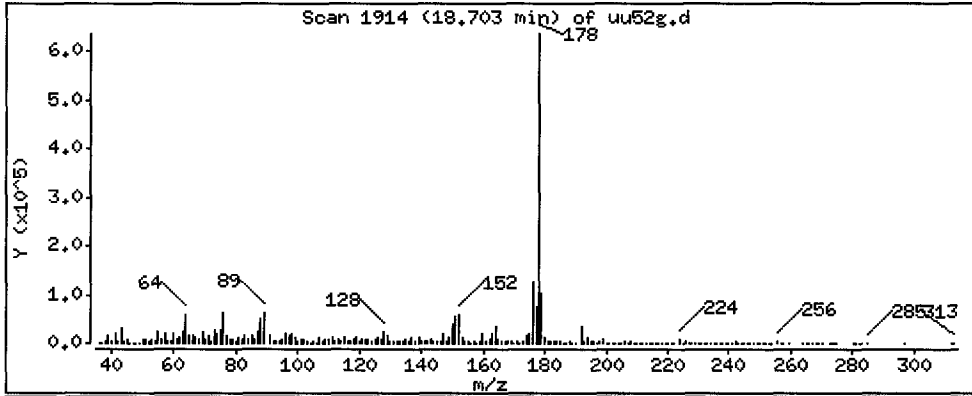
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 2197 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

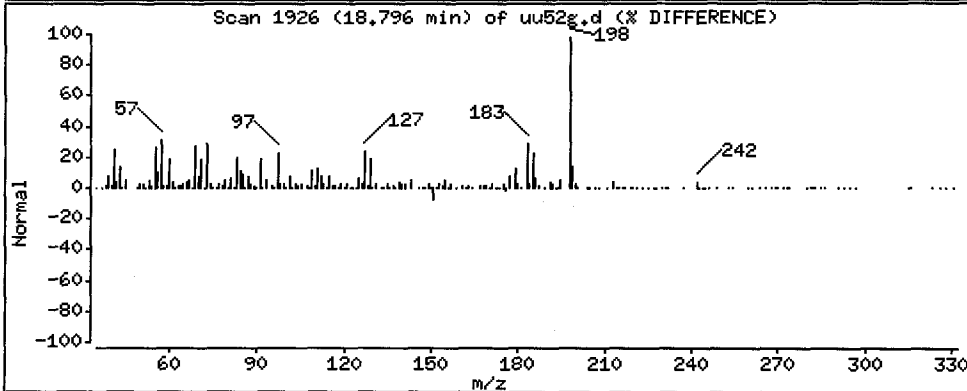
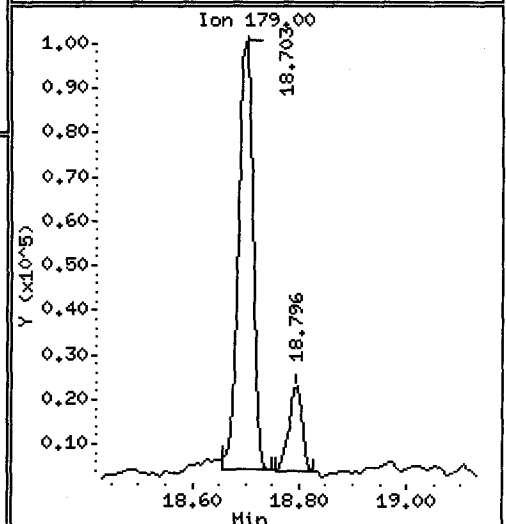
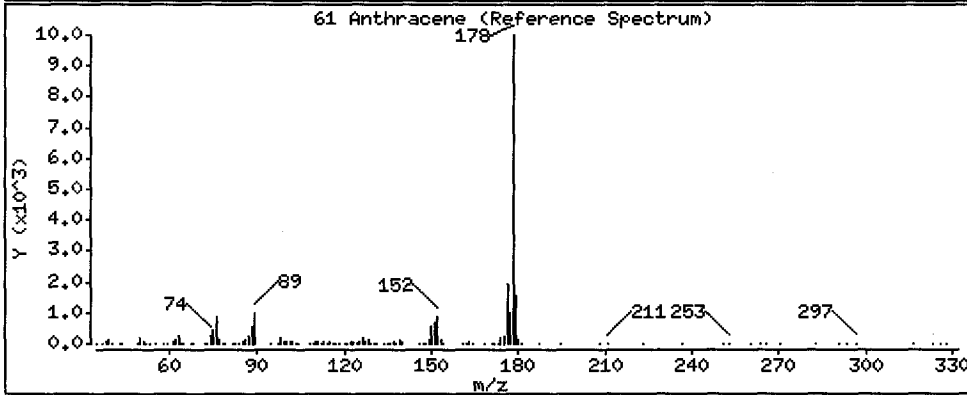
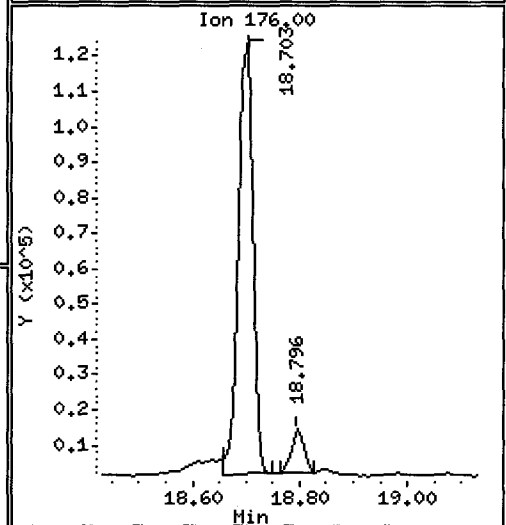
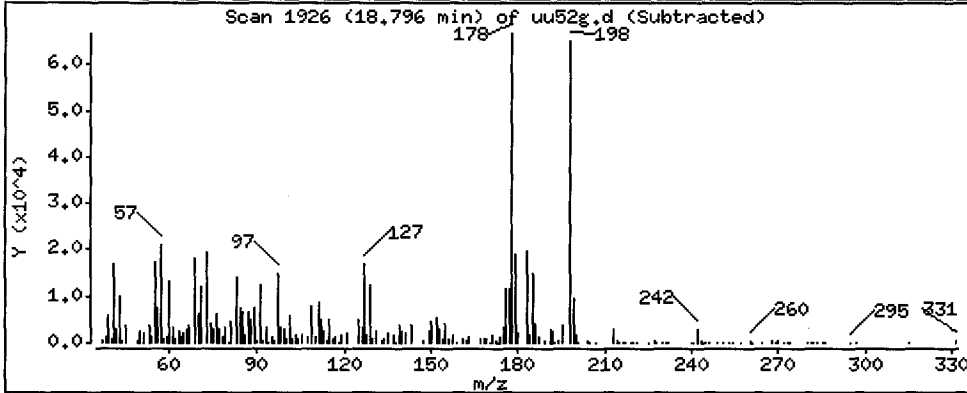
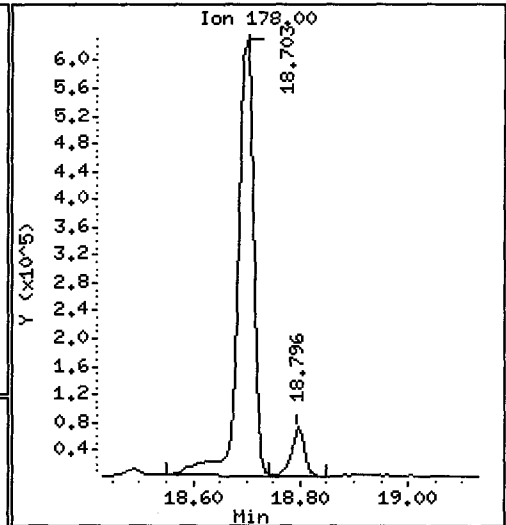
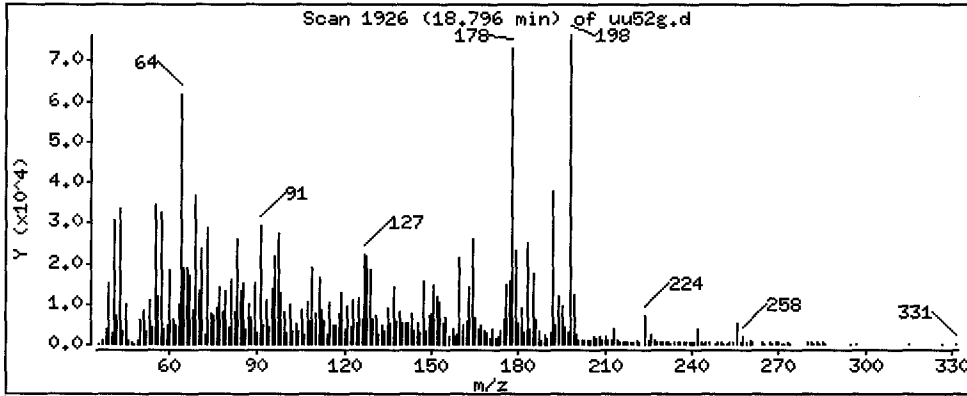
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 225.6 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

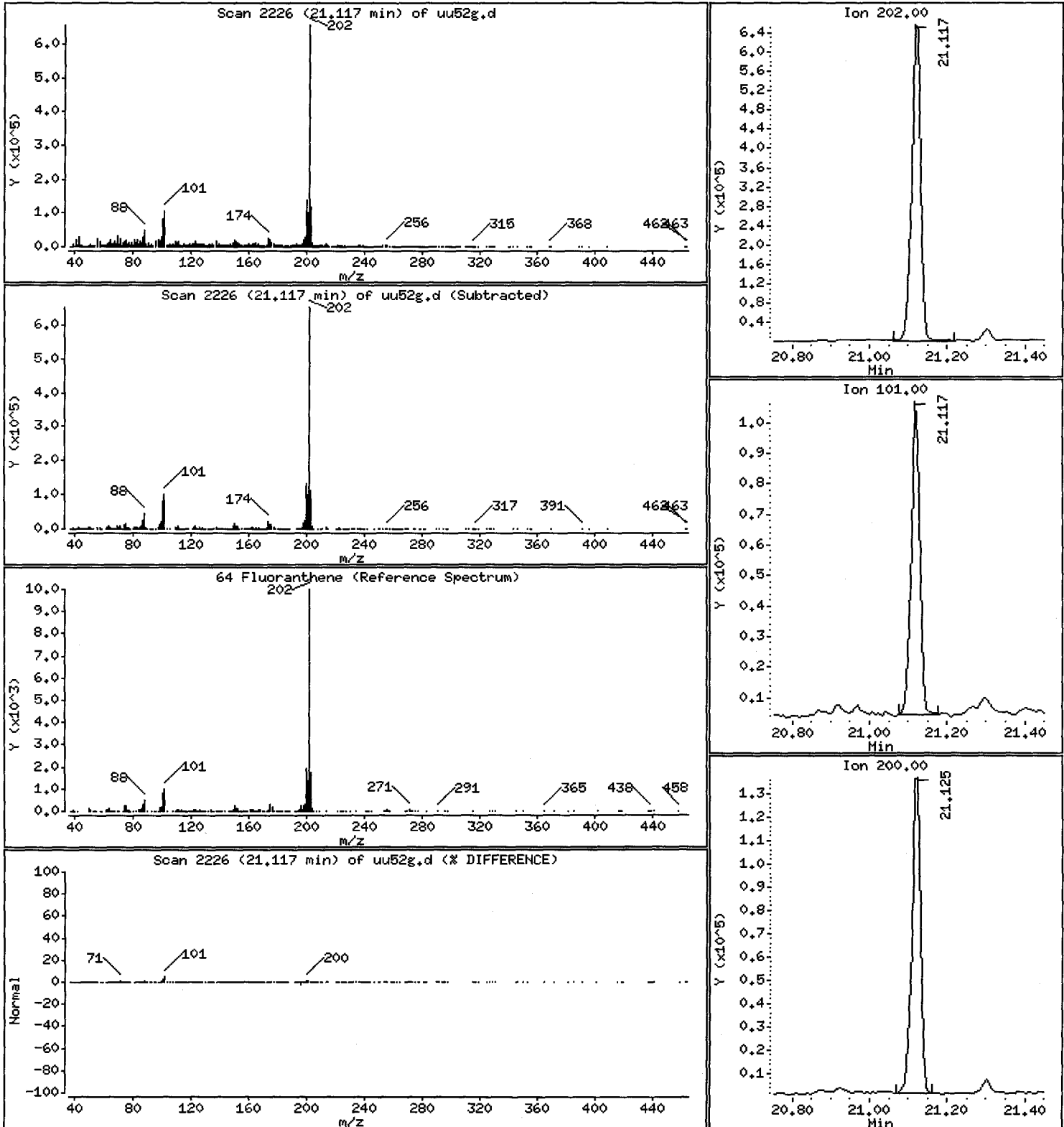
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 1746 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

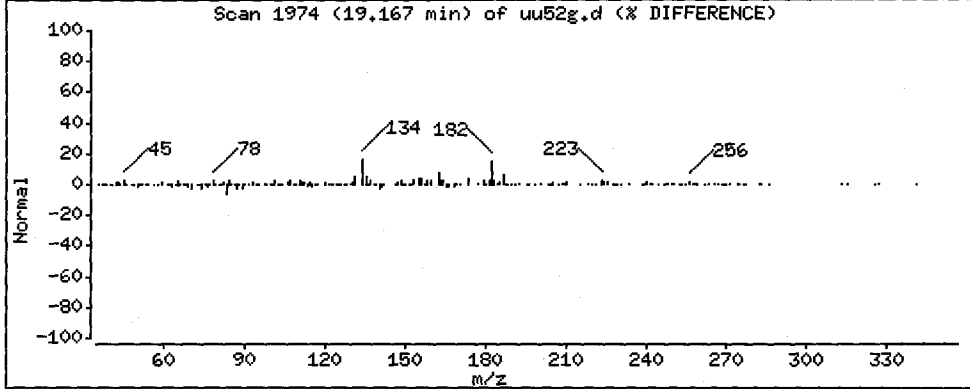
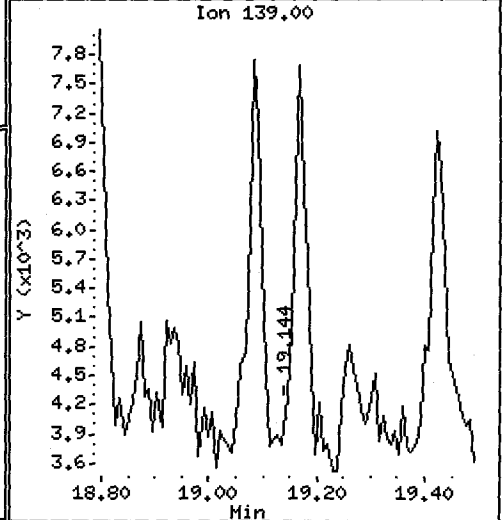
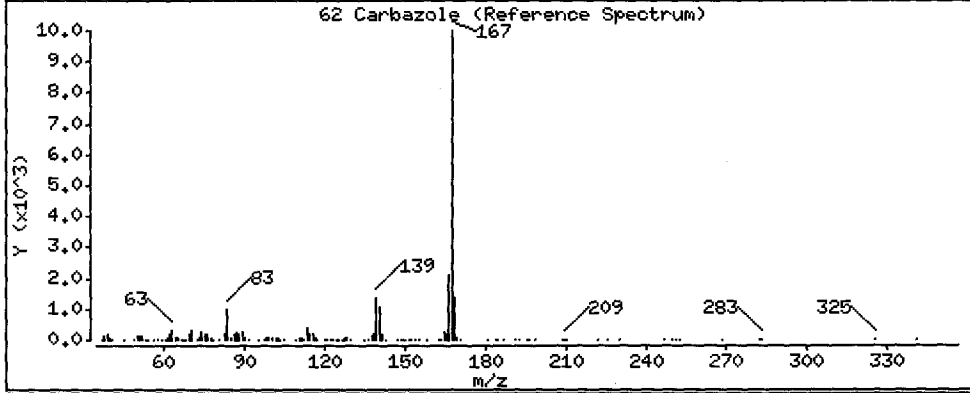
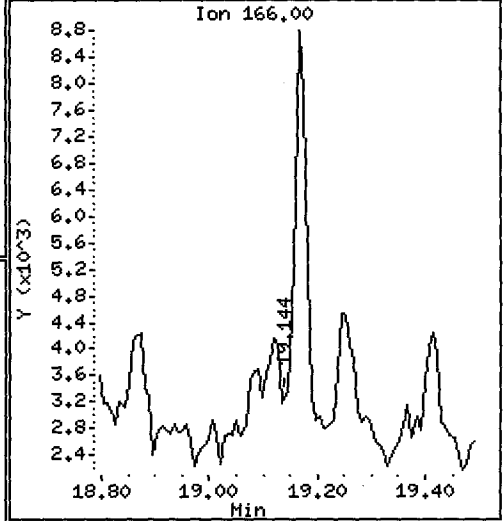
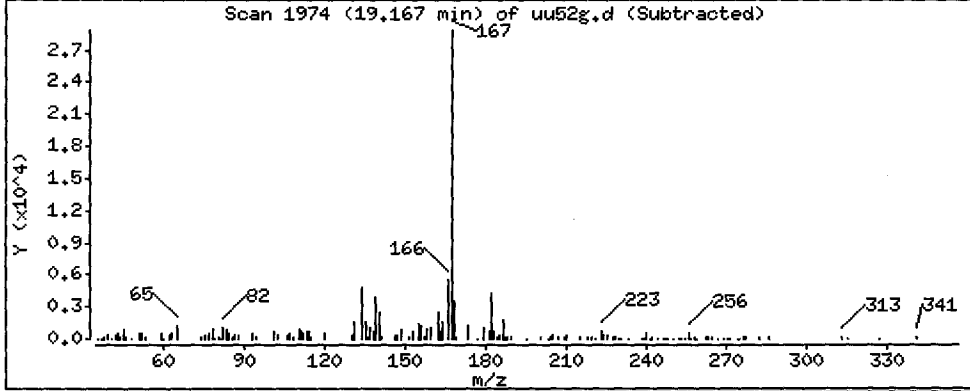
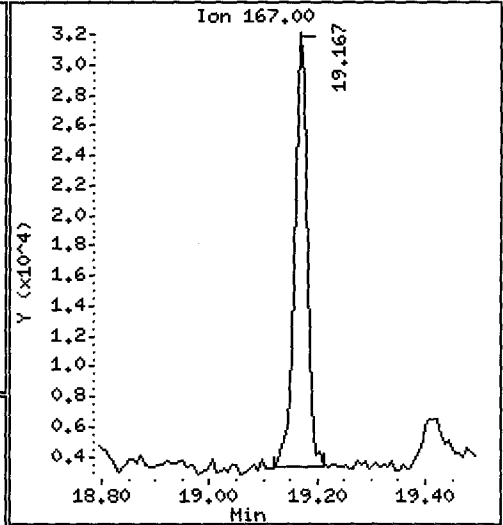
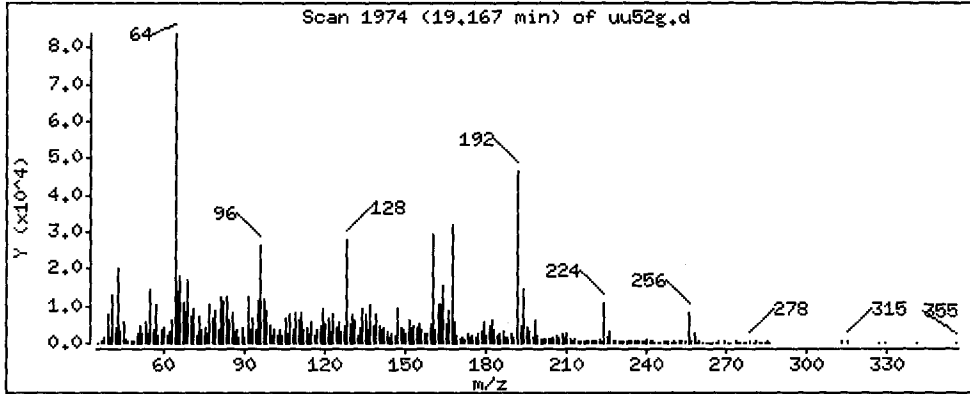
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 96.76 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

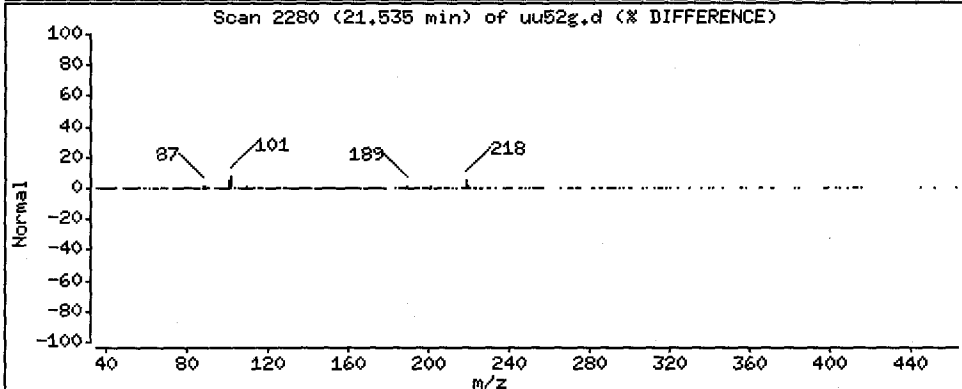
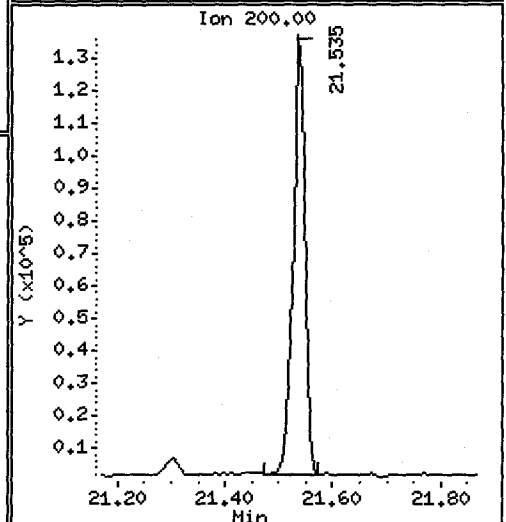
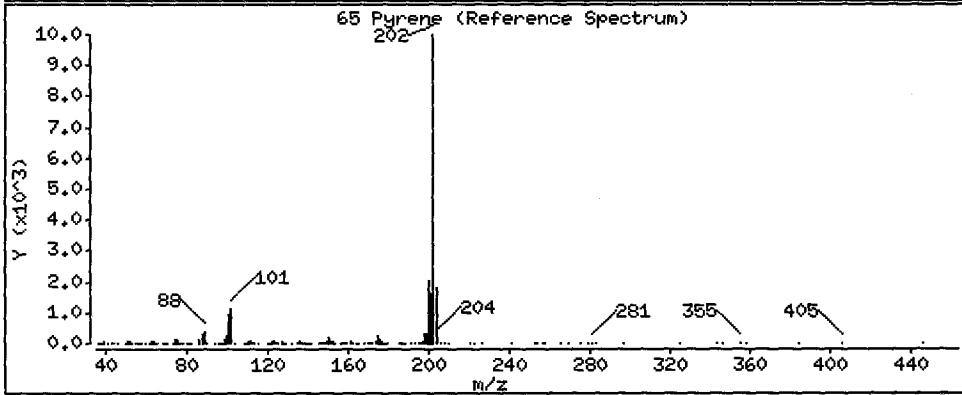
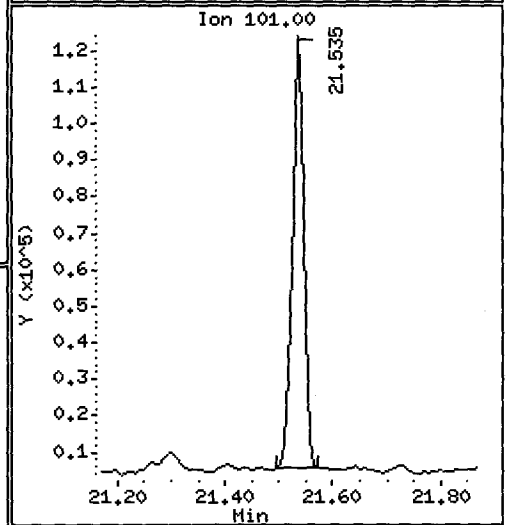
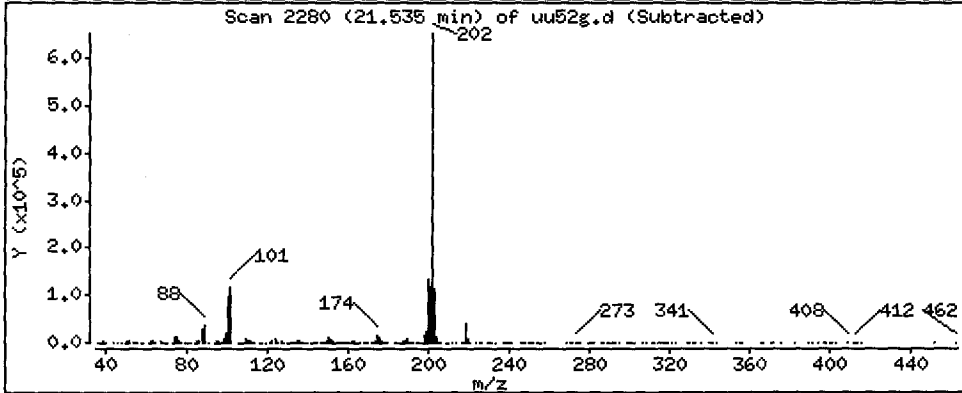
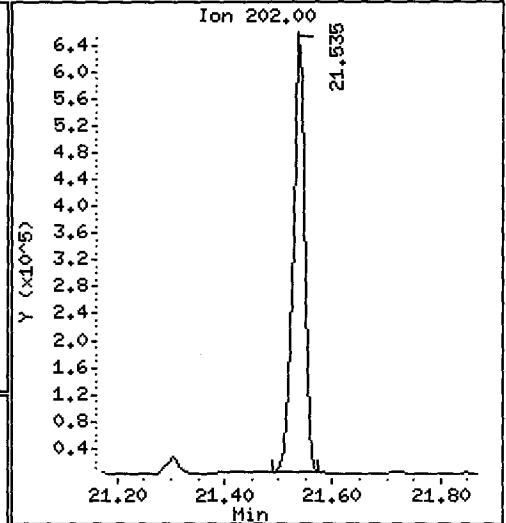
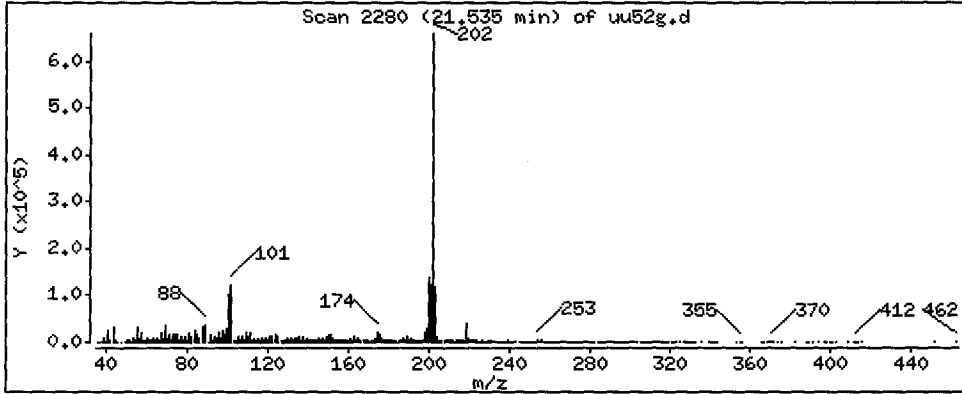
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 1369 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

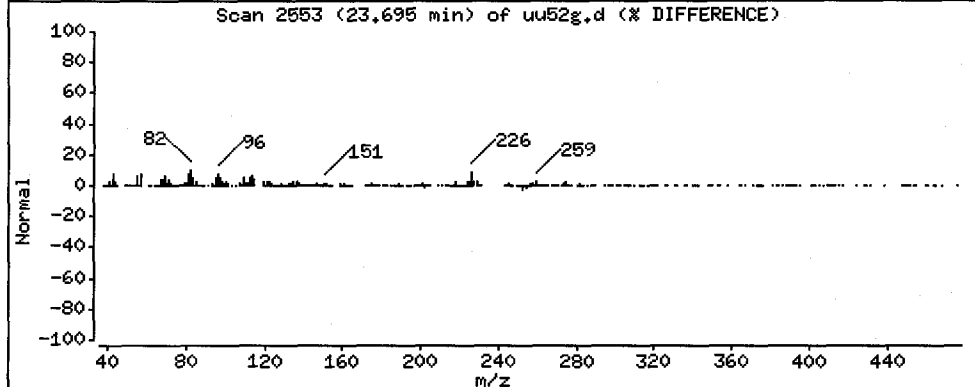
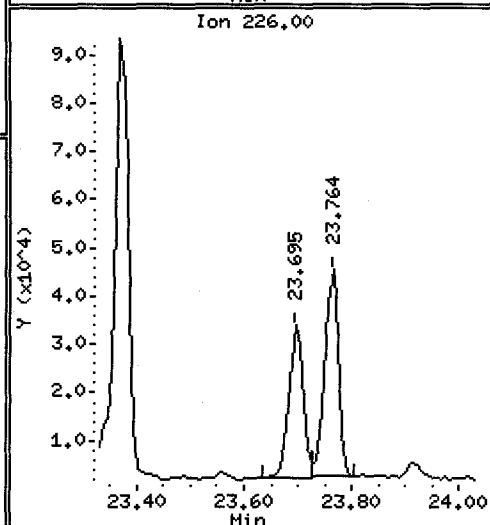
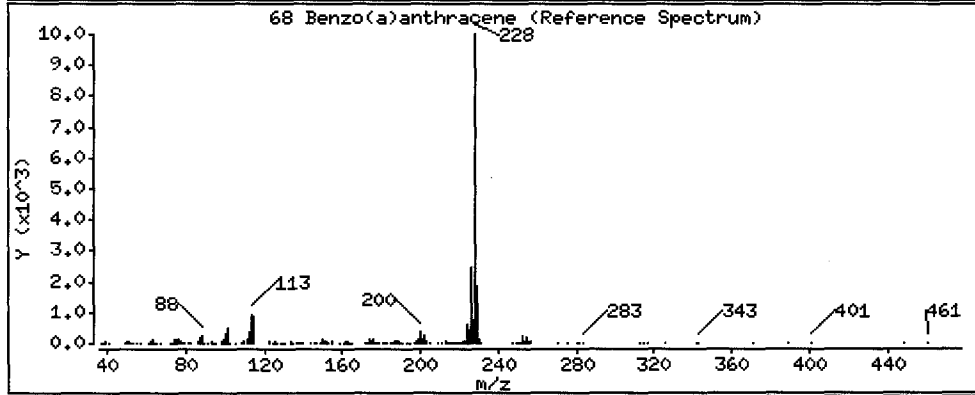
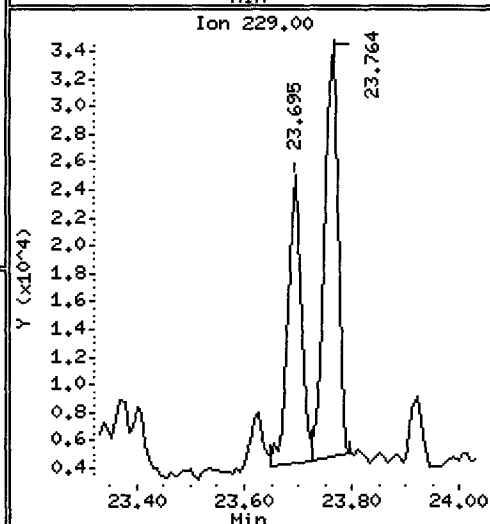
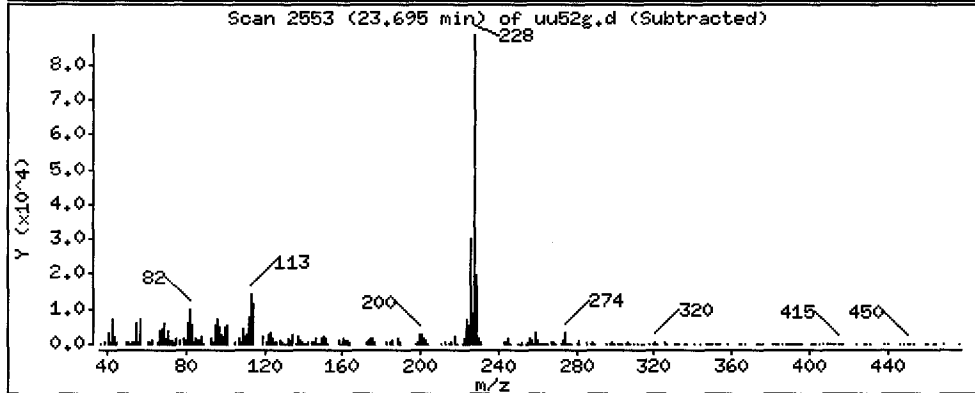
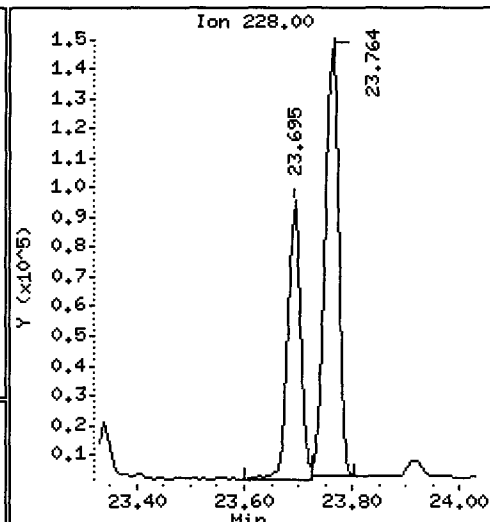
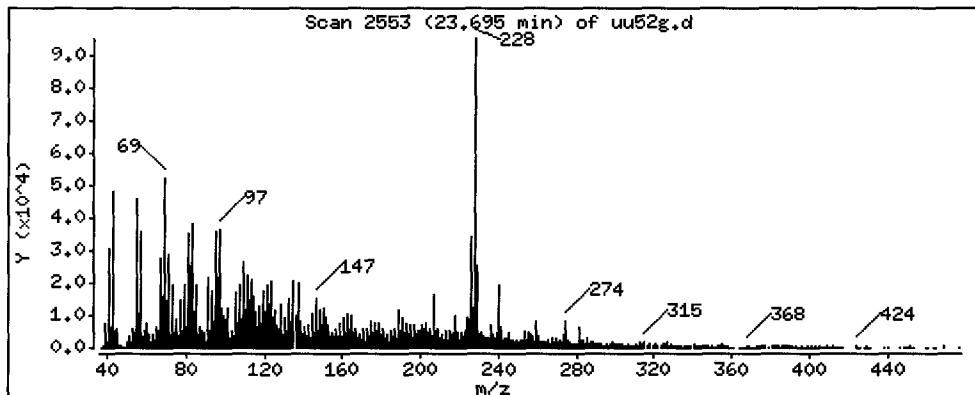
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 229.9 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

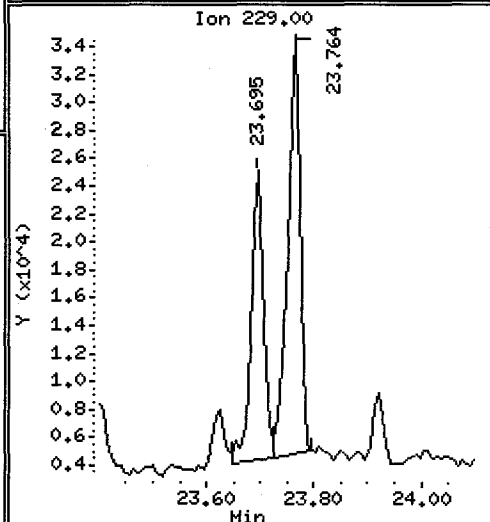
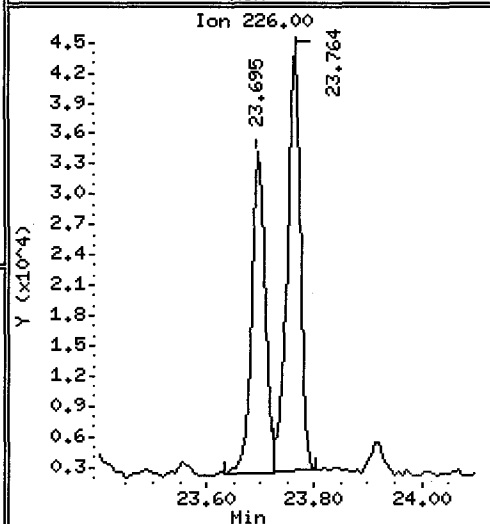
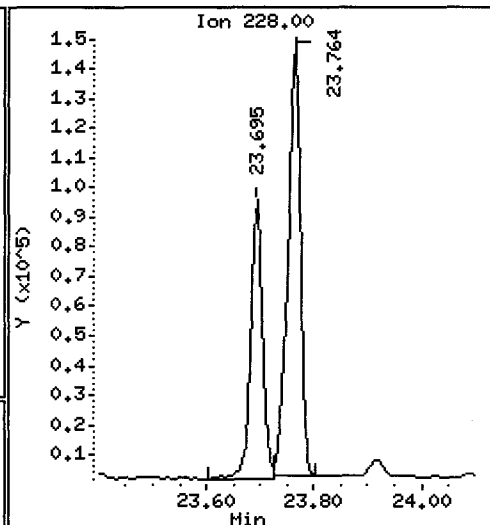
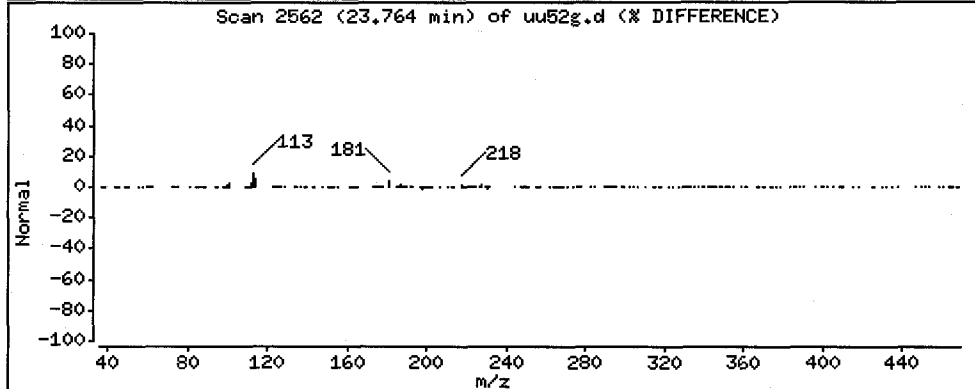
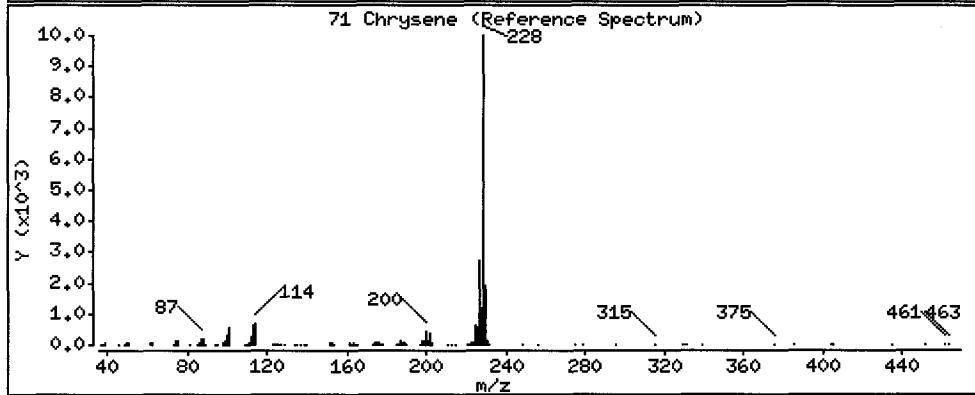
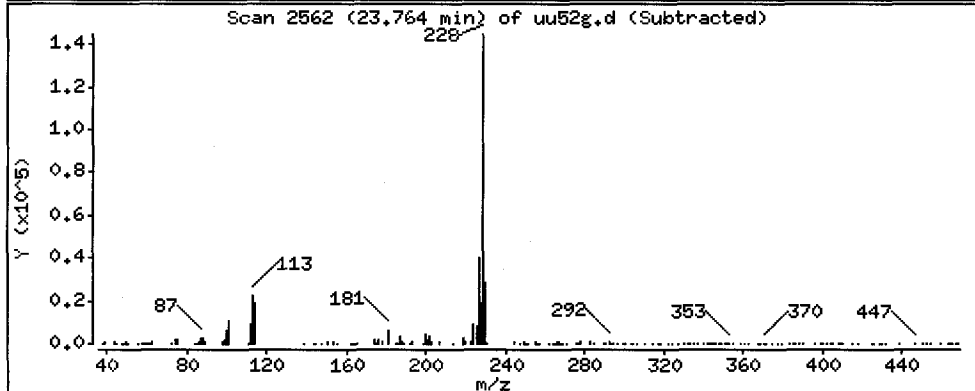
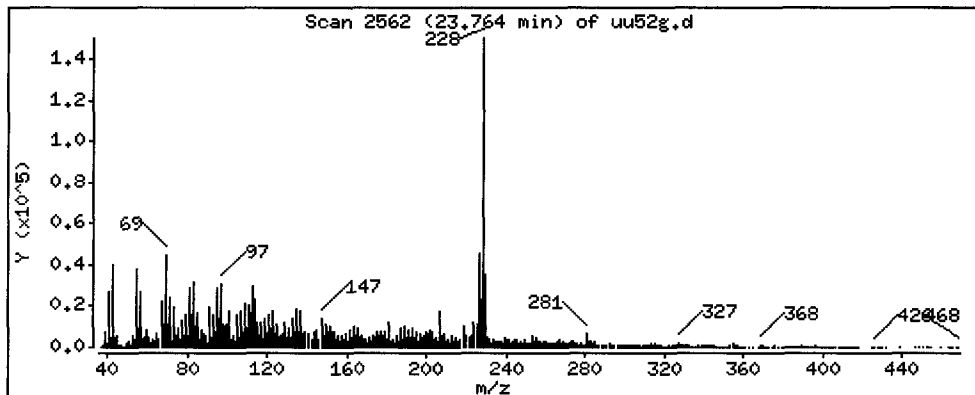
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 413.8 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

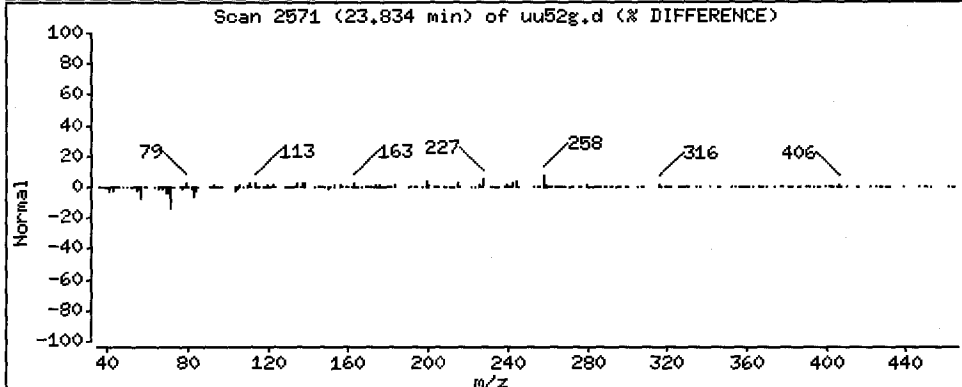
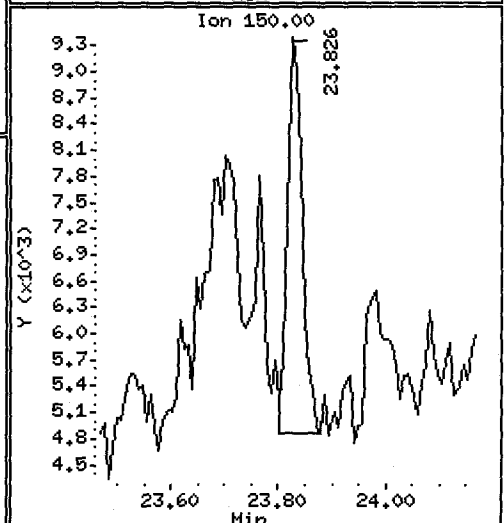
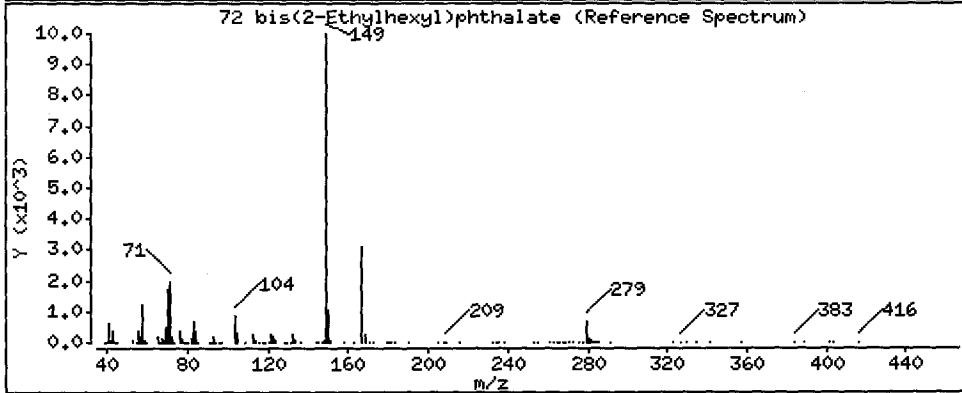
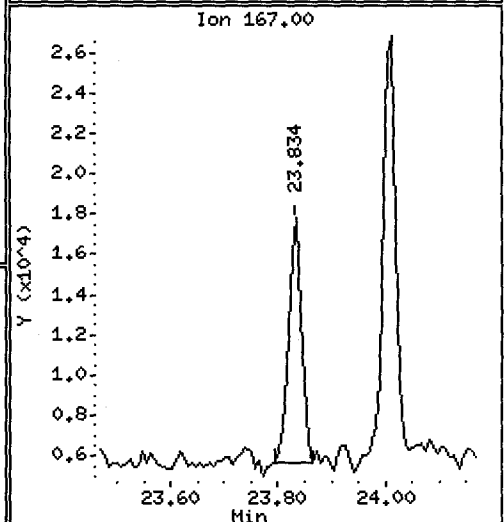
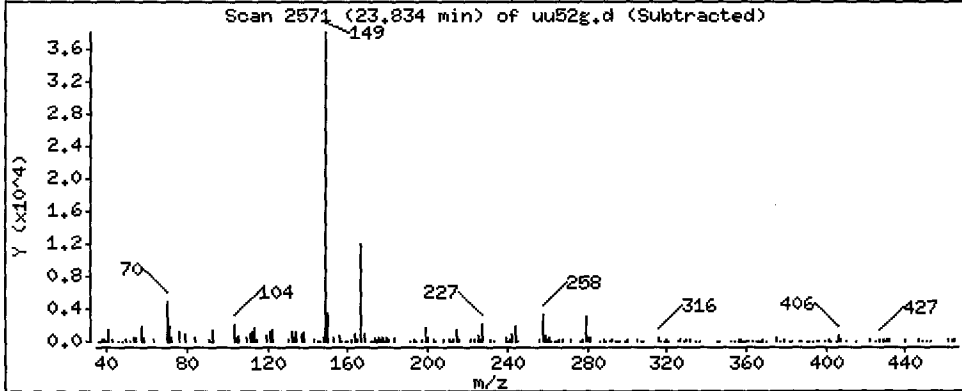
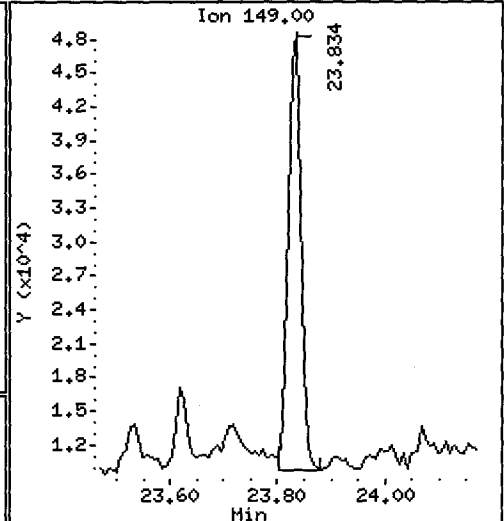
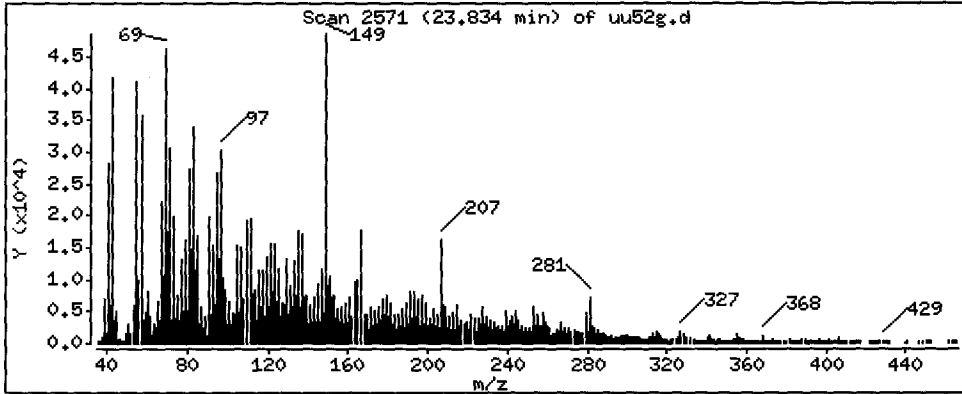
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

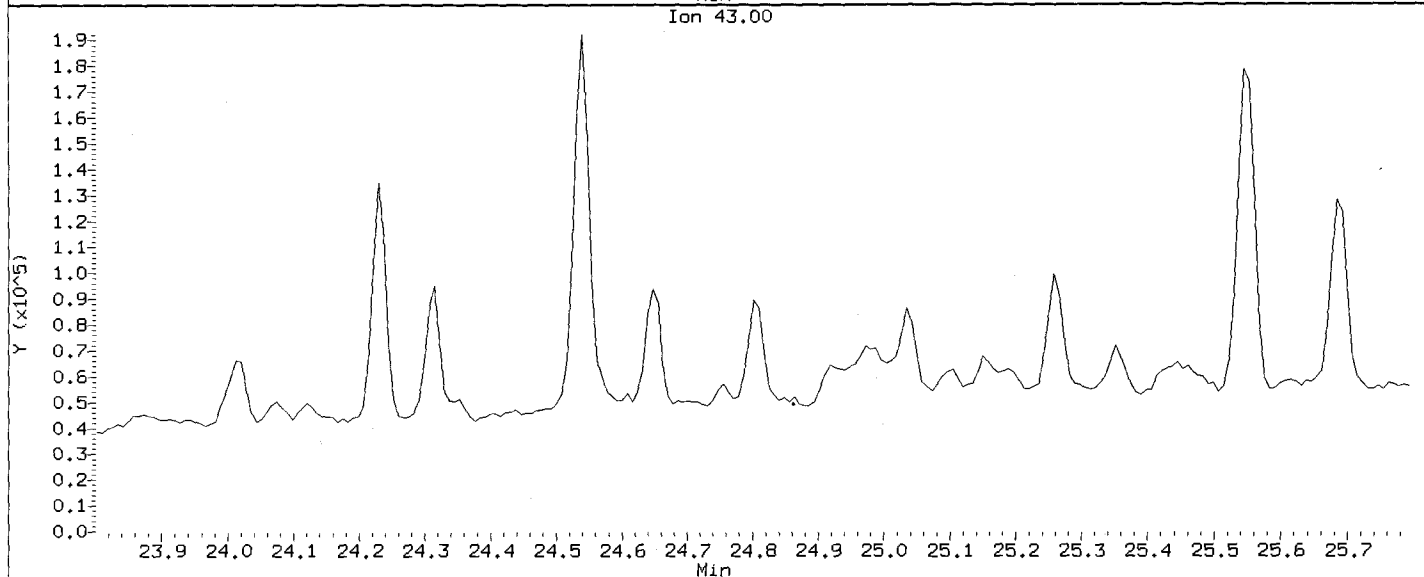
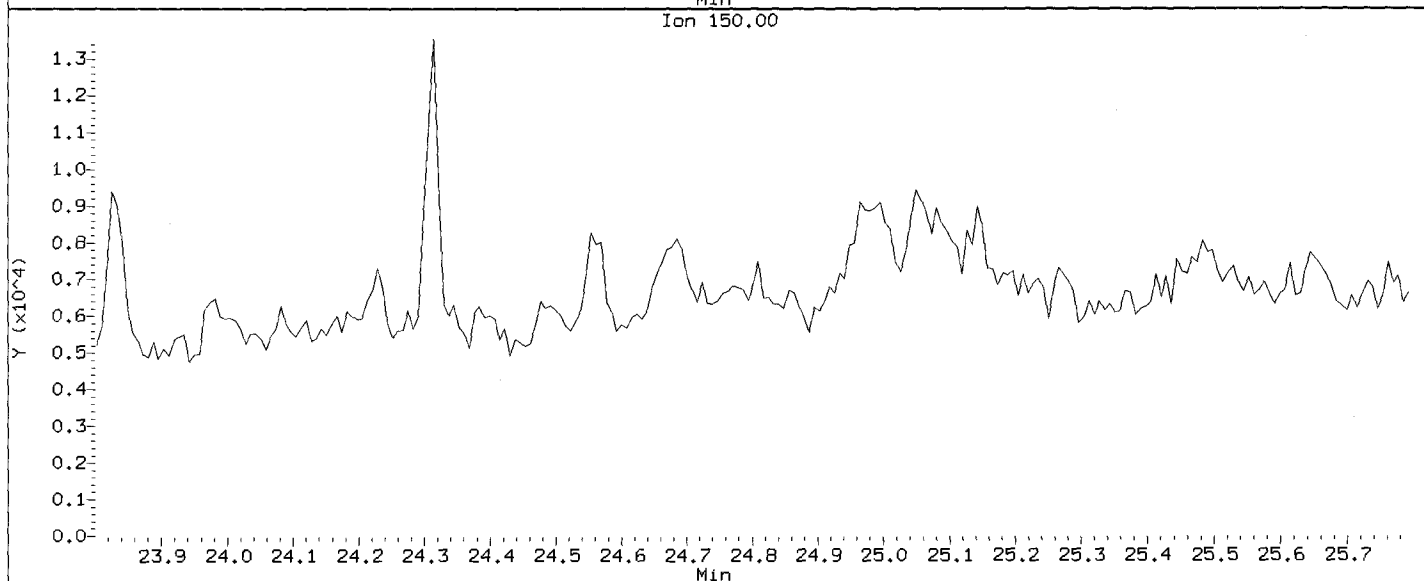
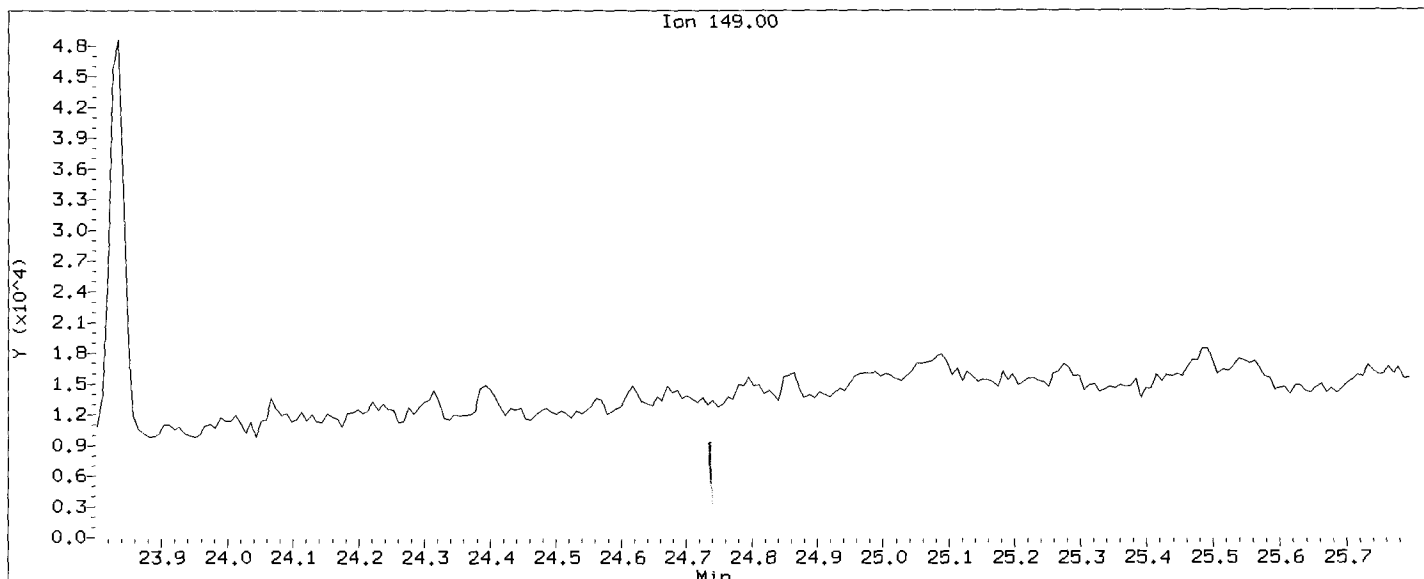
72 bis(2-Ethylhexyl)phthalate

Concentration: 123.5 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52g.d
Injection Date: 26-MAY-2012 20:54
Instrument: nt10.i
Client Sample ID: MS006-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



UU52 : 00920

Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

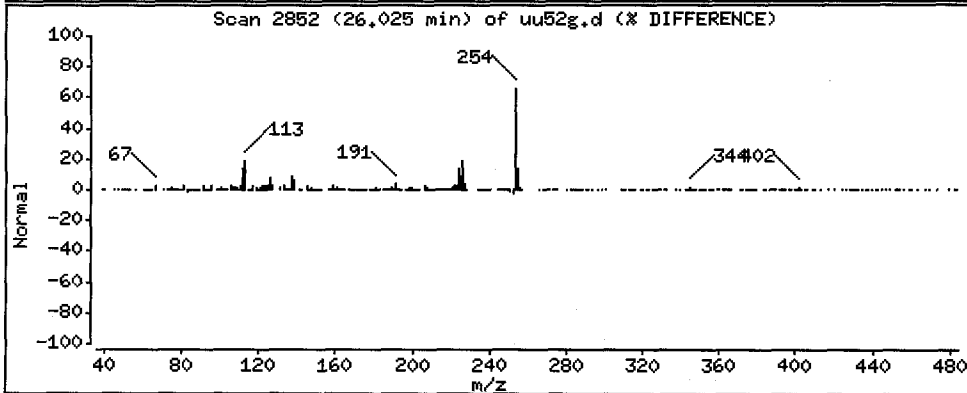
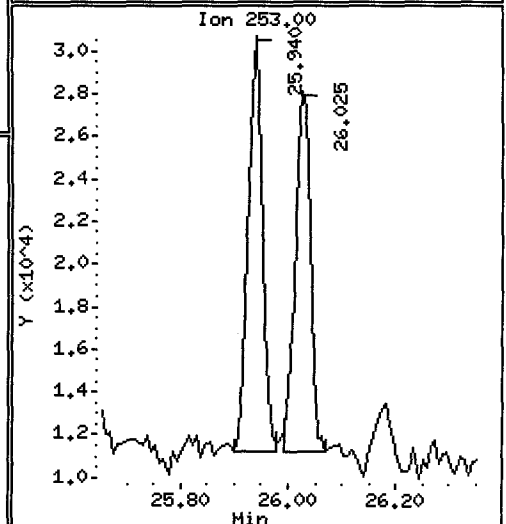
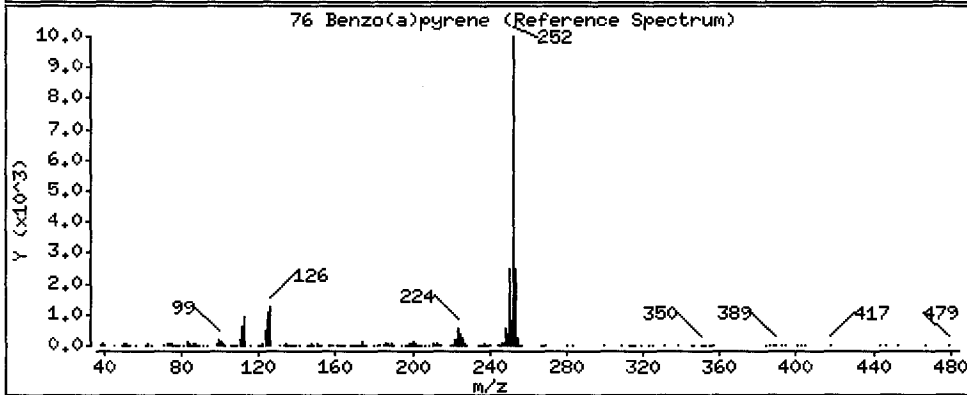
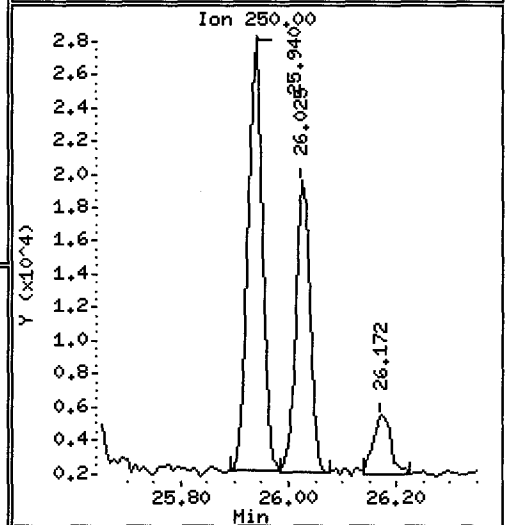
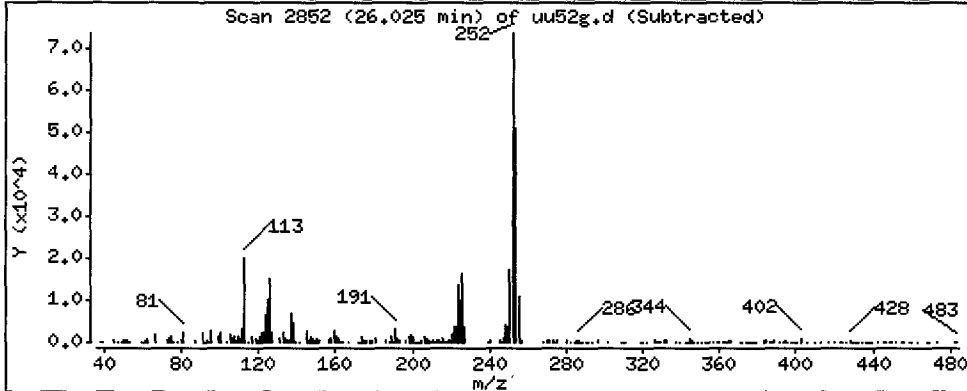
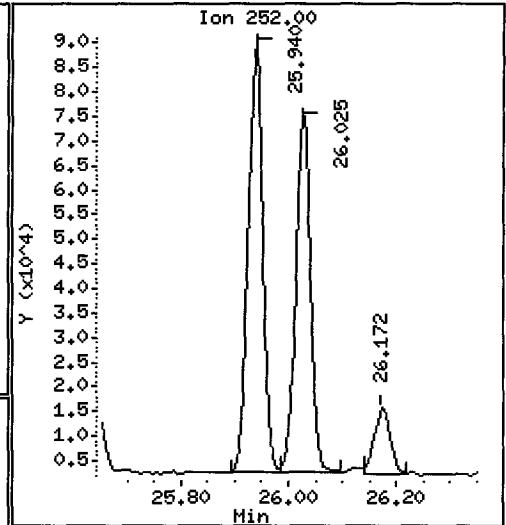
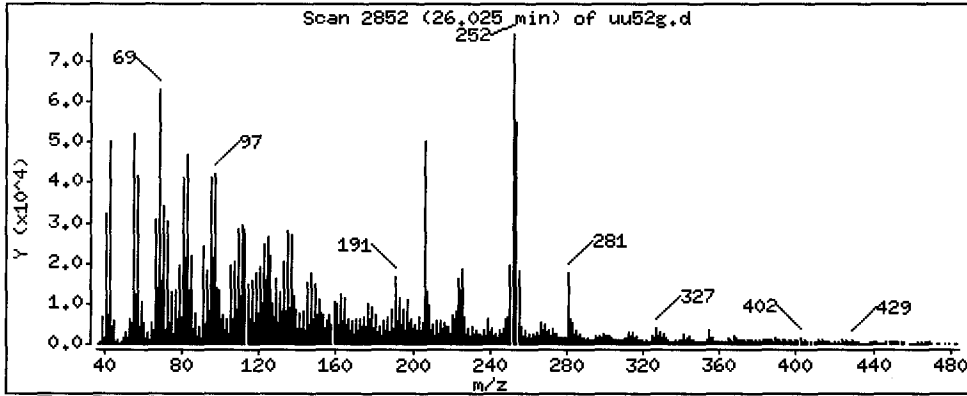
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 248.3 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

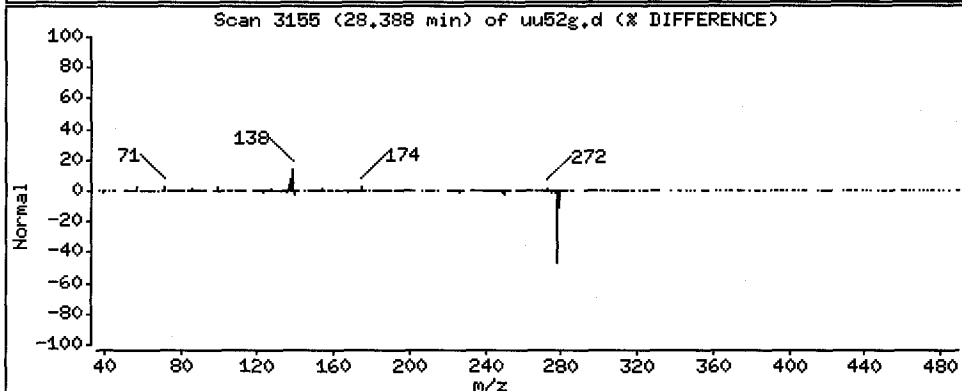
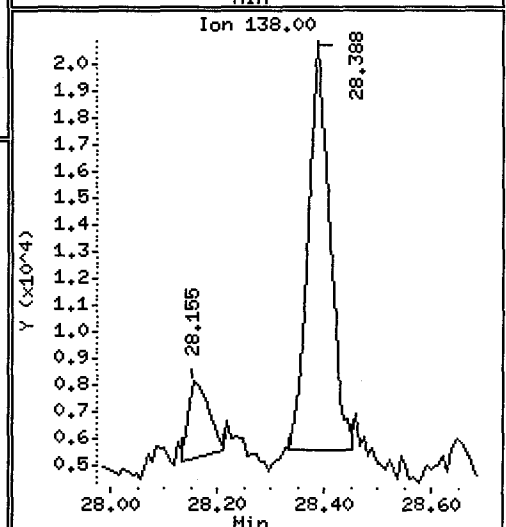
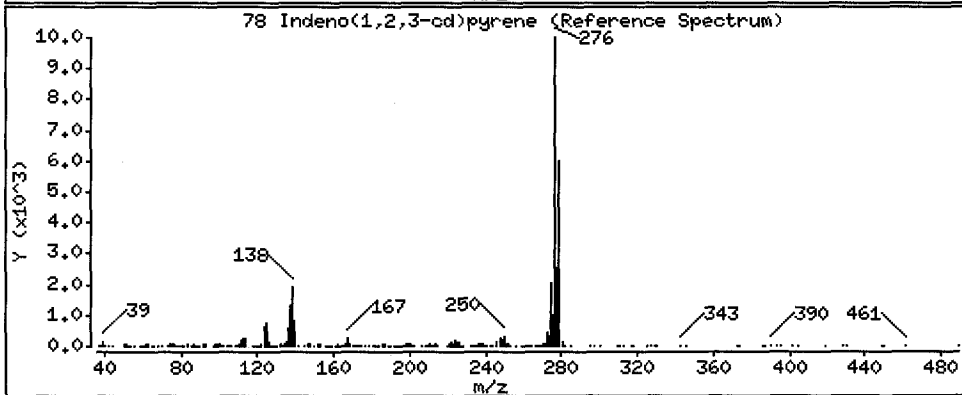
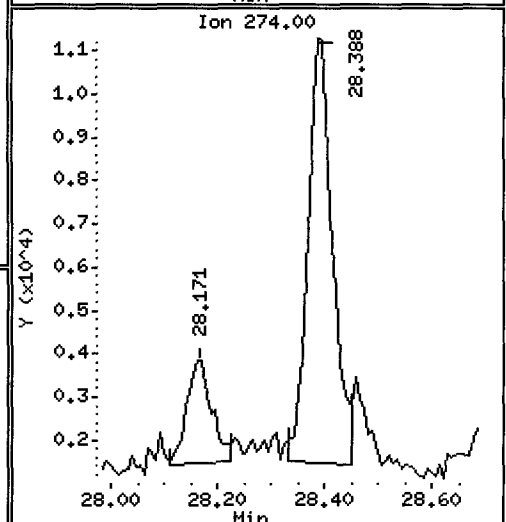
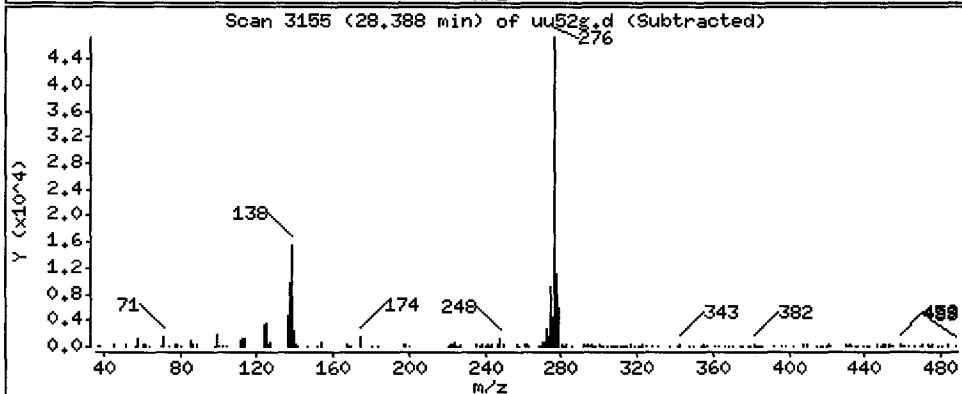
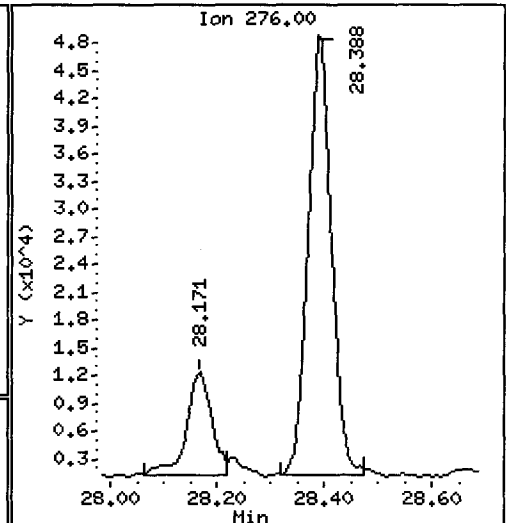
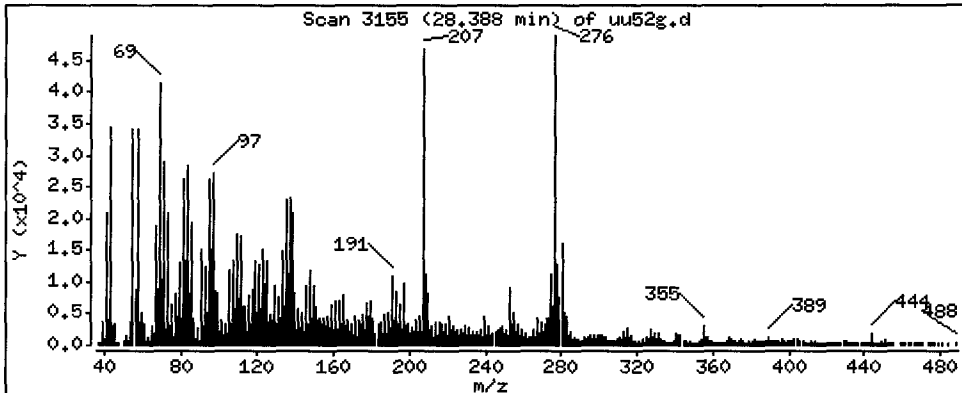
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 220.3 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

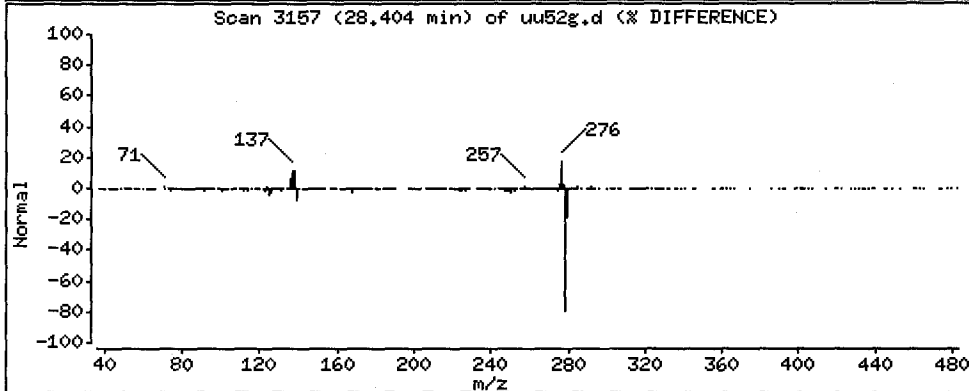
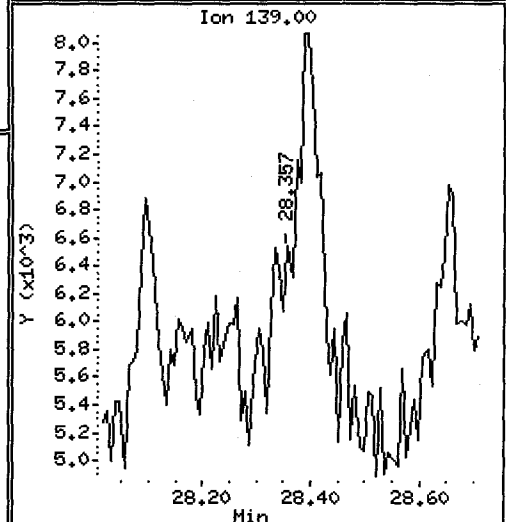
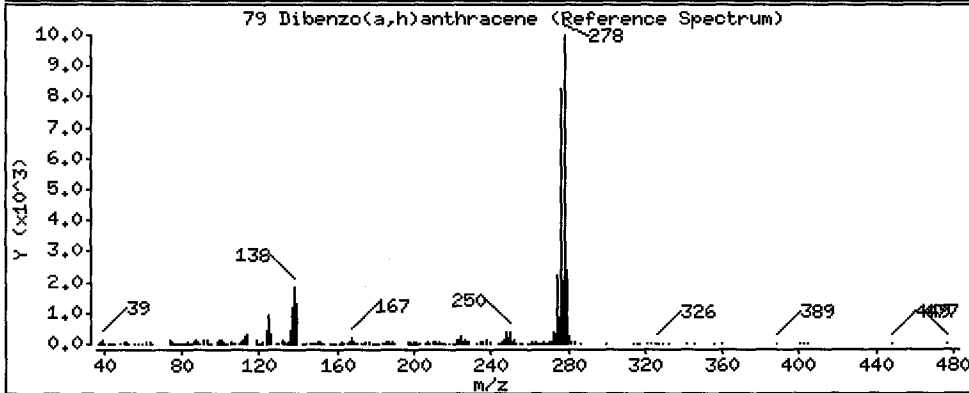
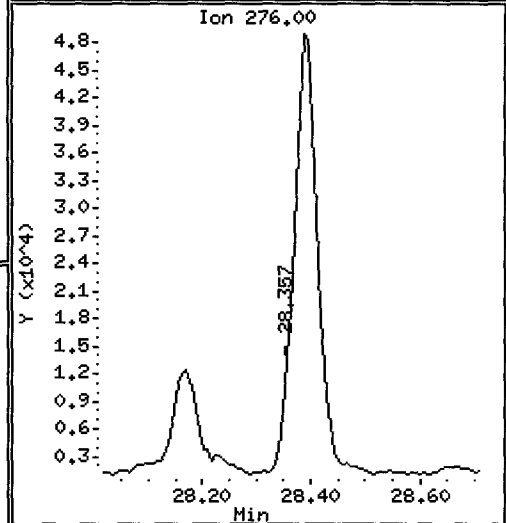
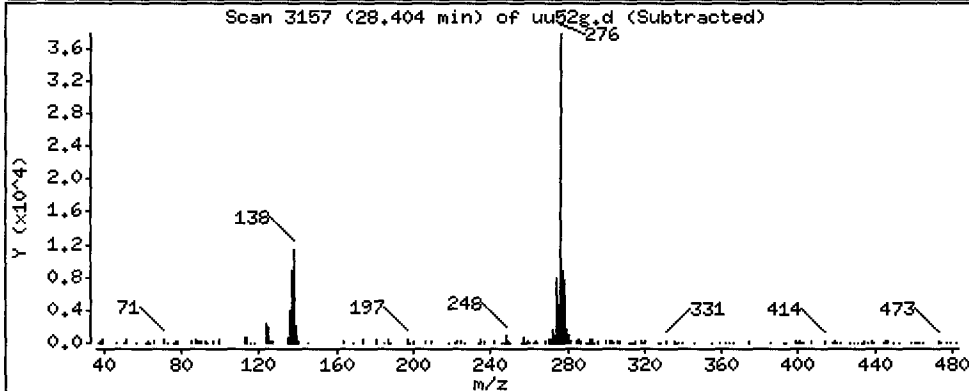
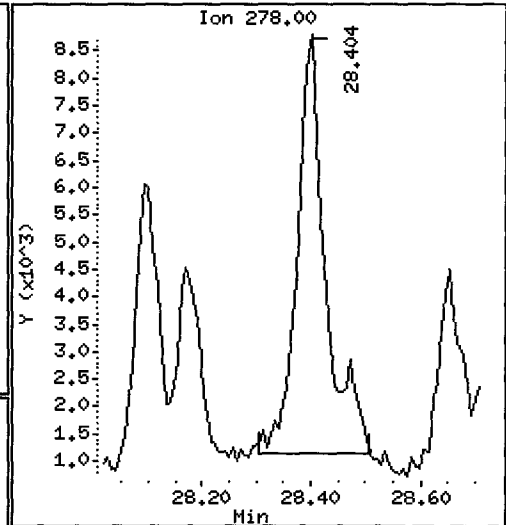
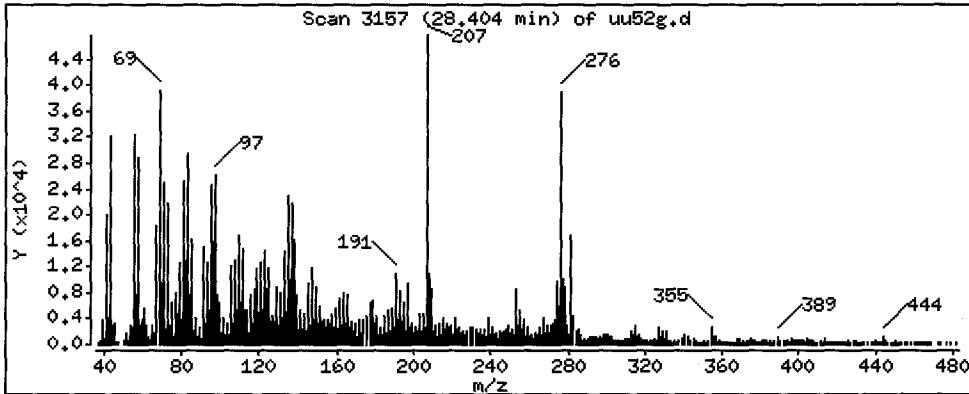
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 55.04 ug/kg

YZ



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

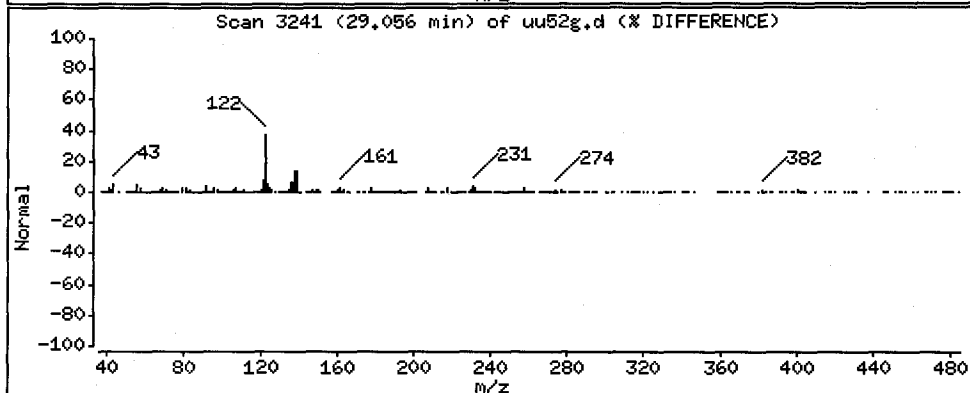
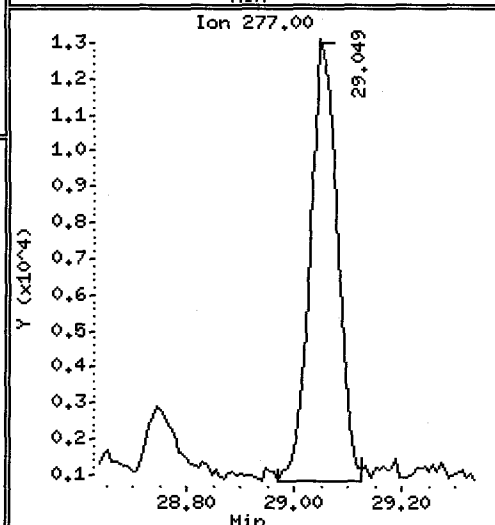
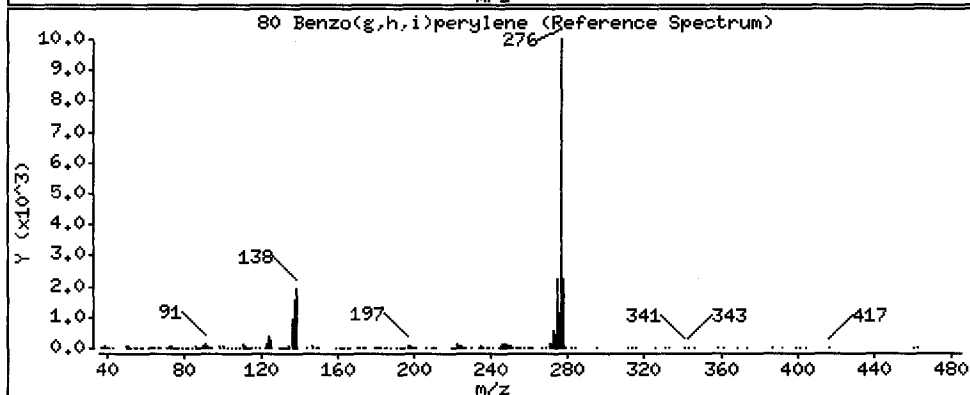
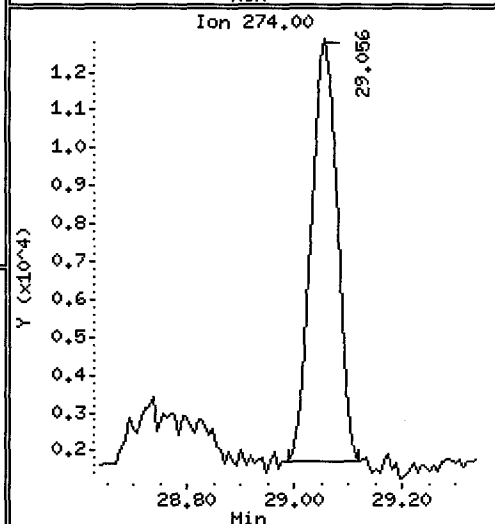
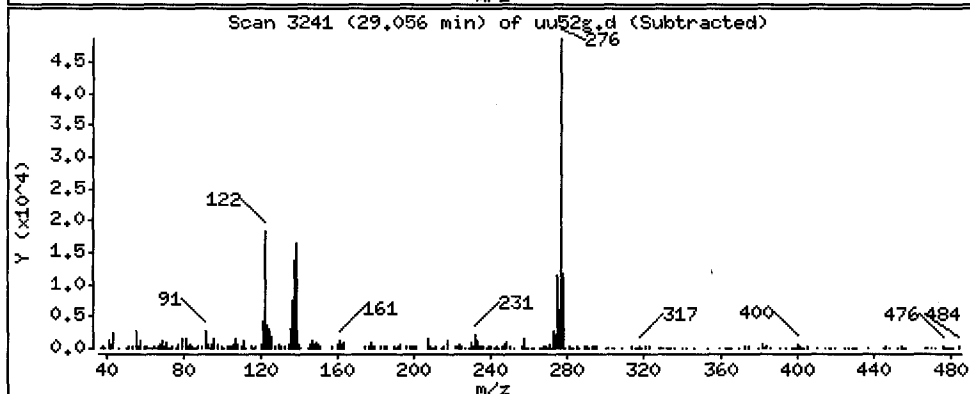
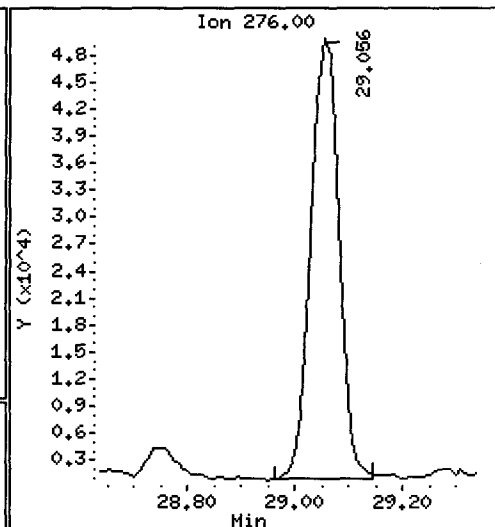
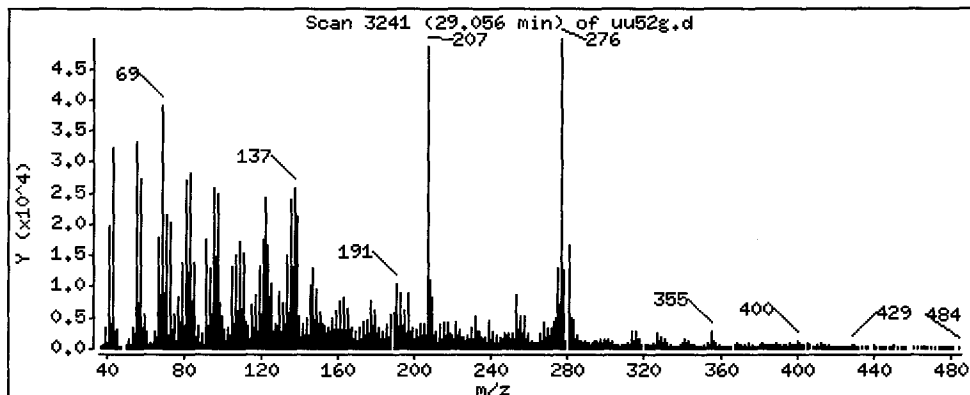
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 313.4 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

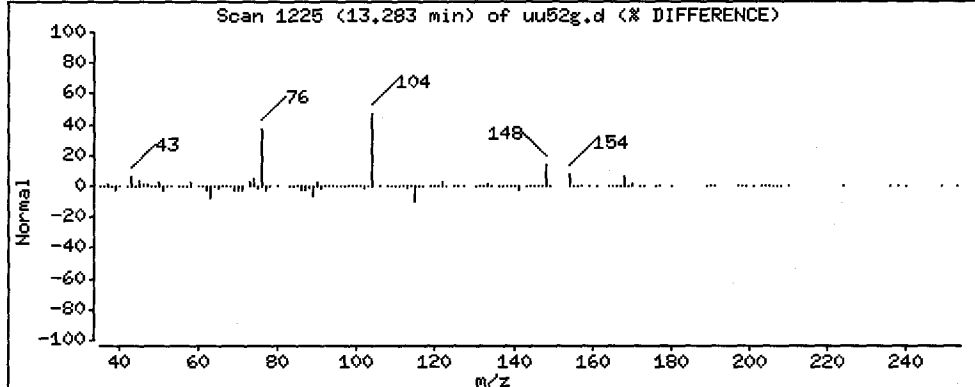
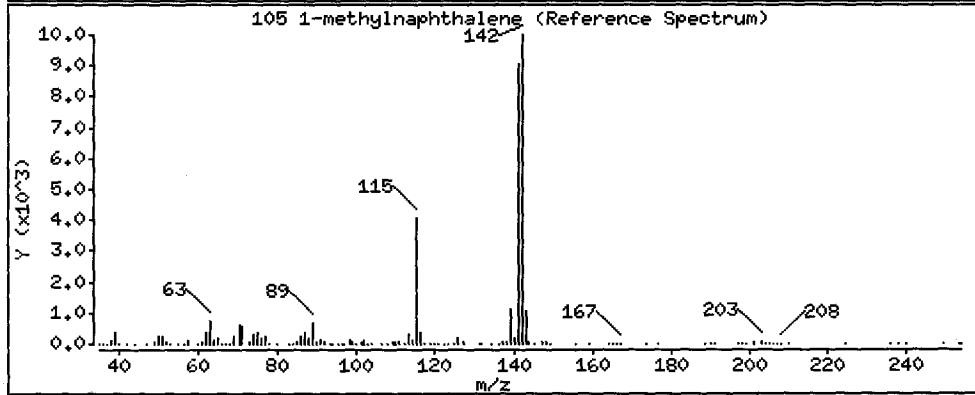
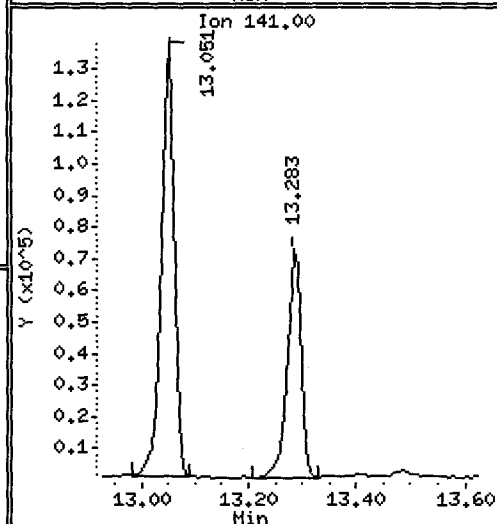
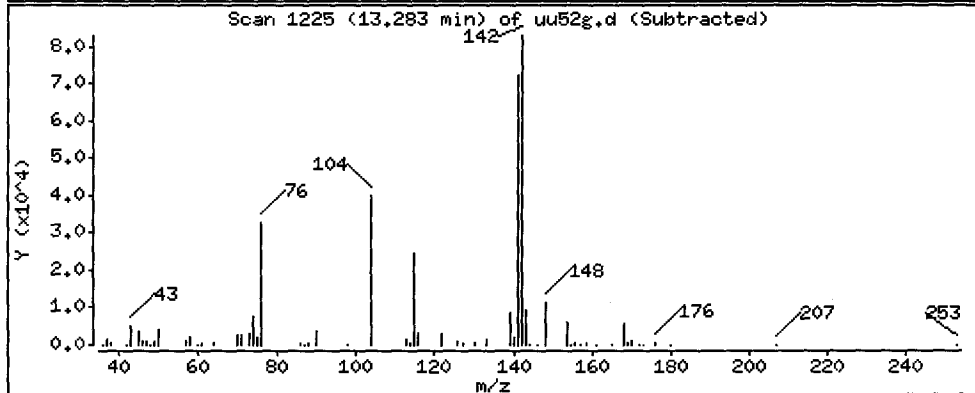
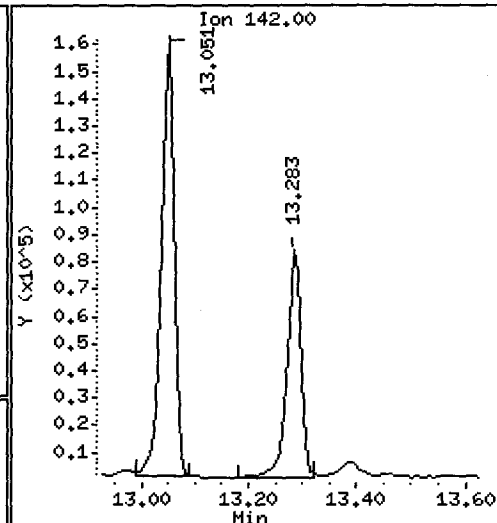
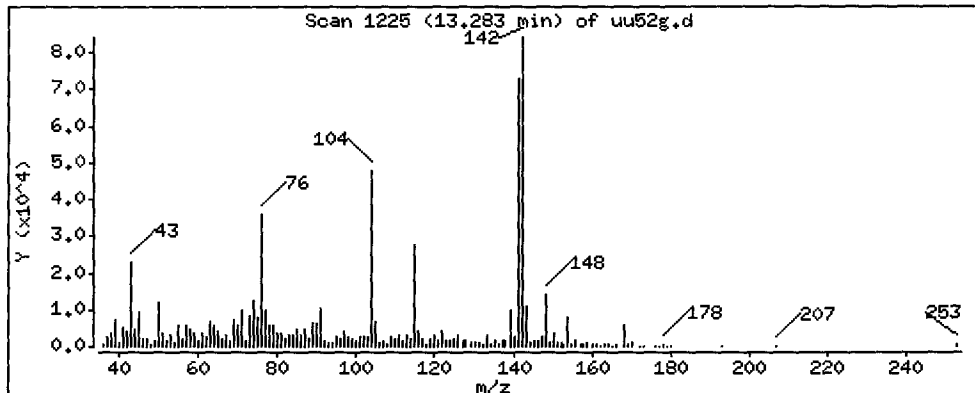
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 334.8 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

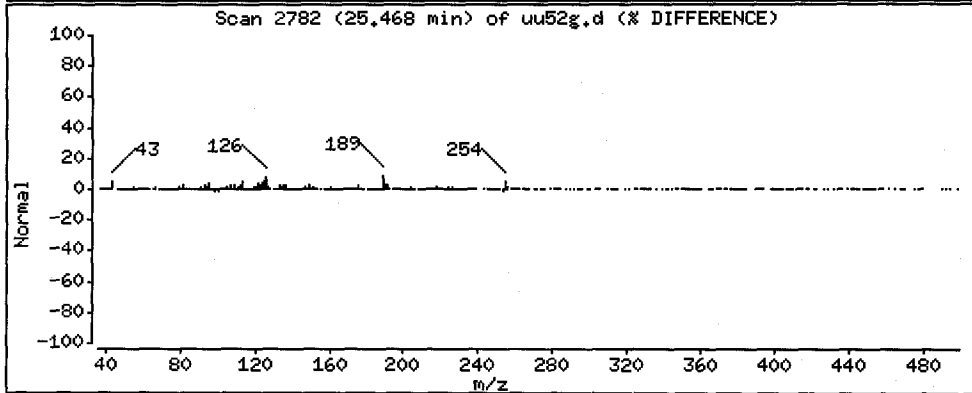
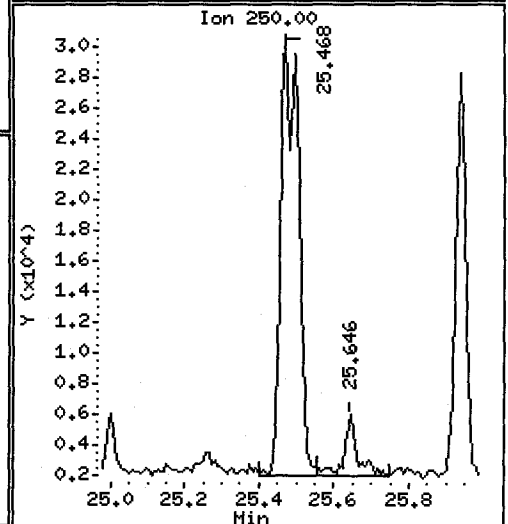
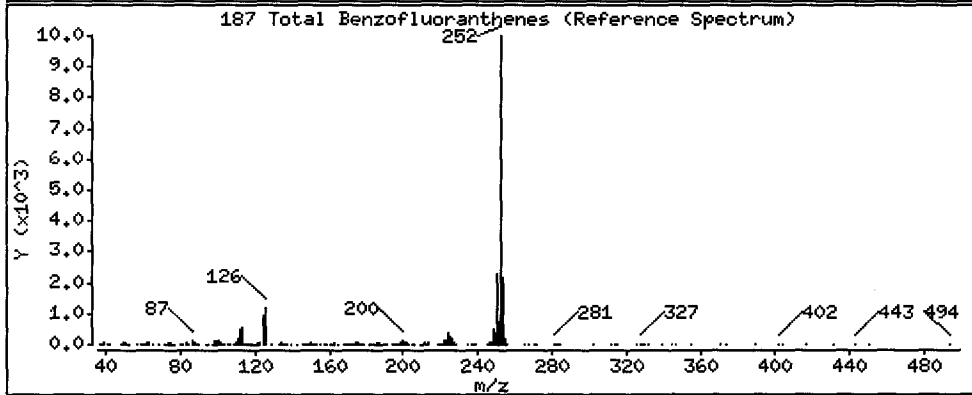
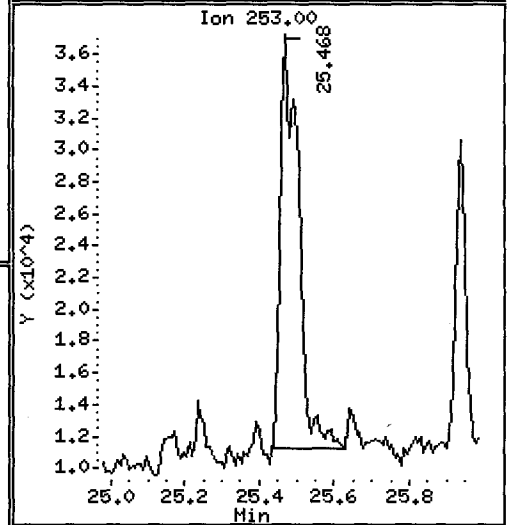
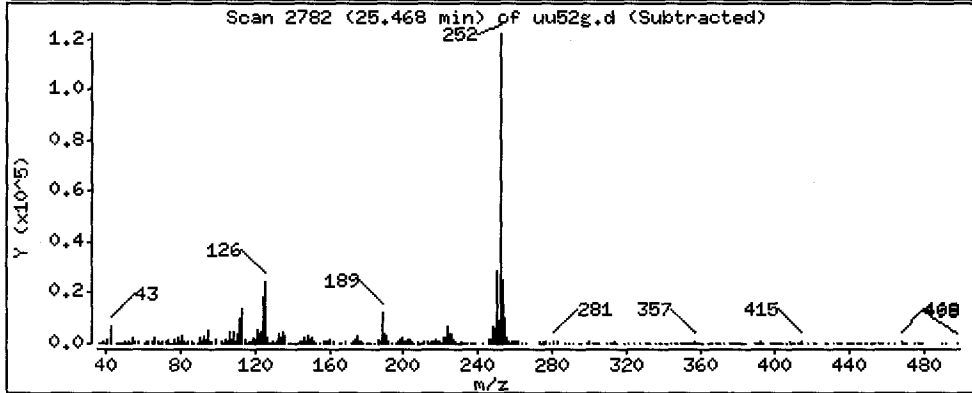
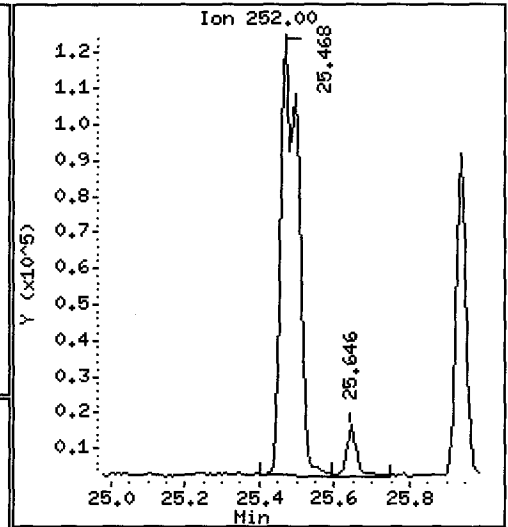
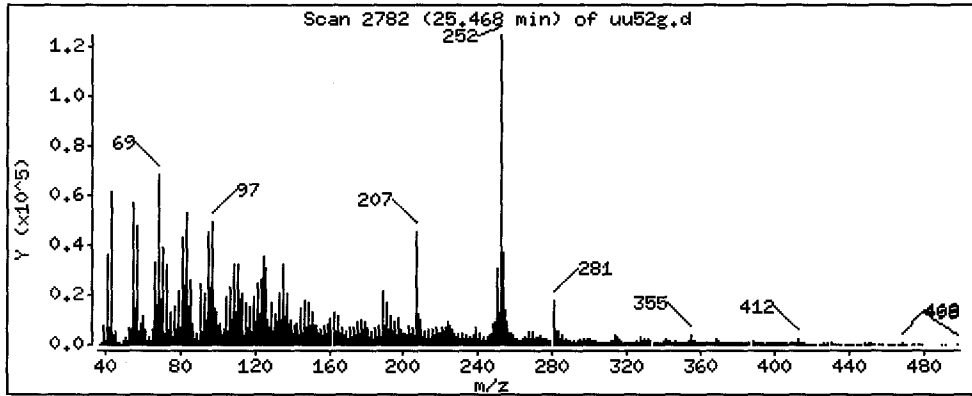
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 651.4 ug/kg



Date : 26-MAY-2012 20:54

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

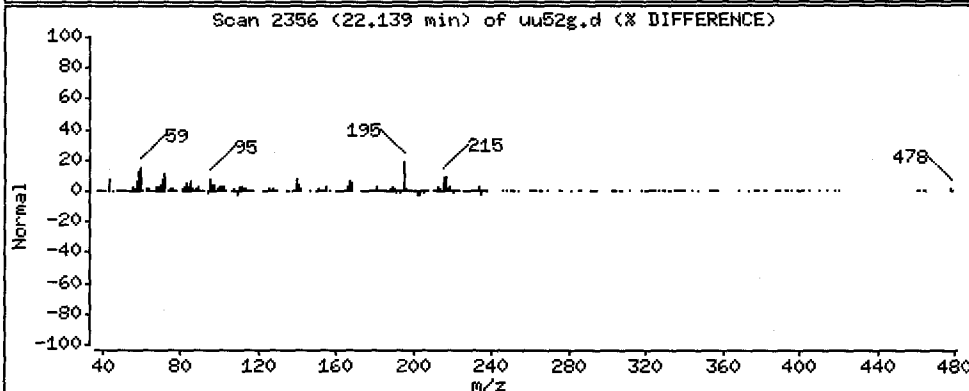
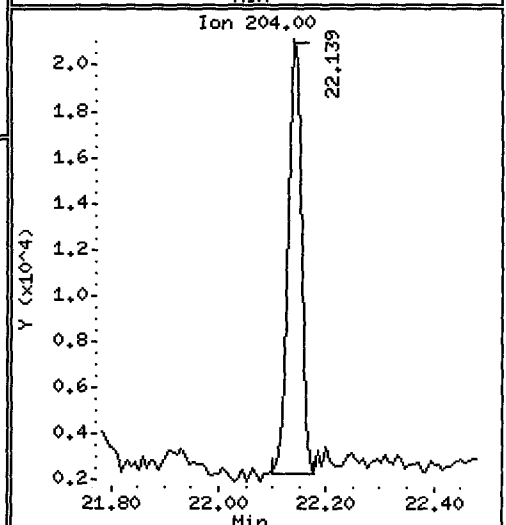
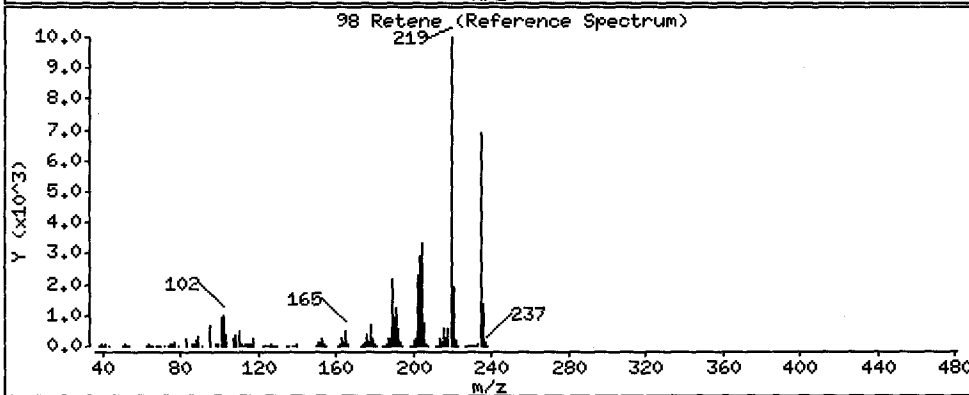
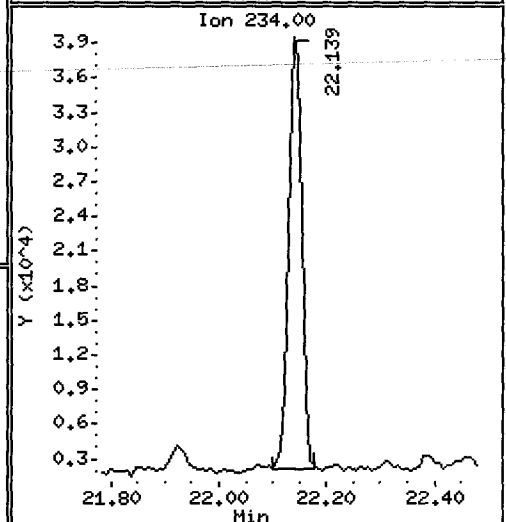
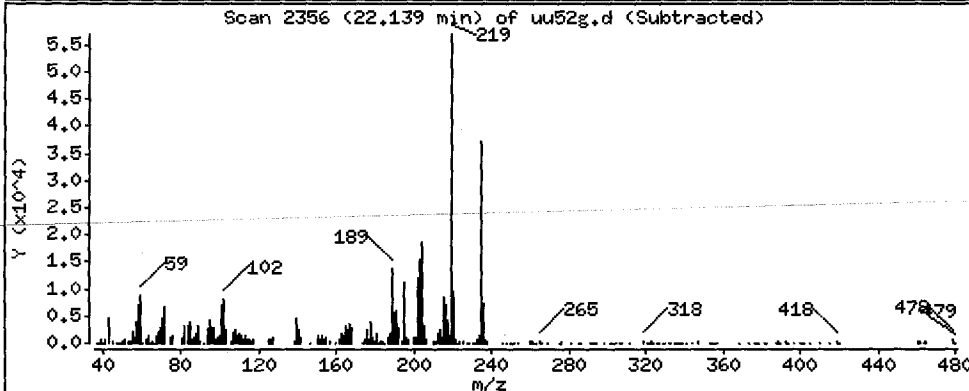
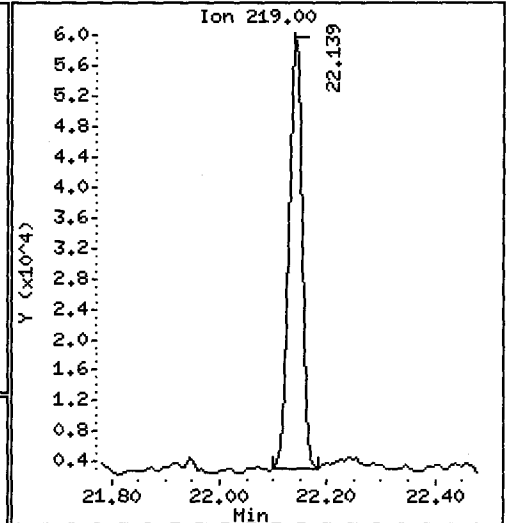
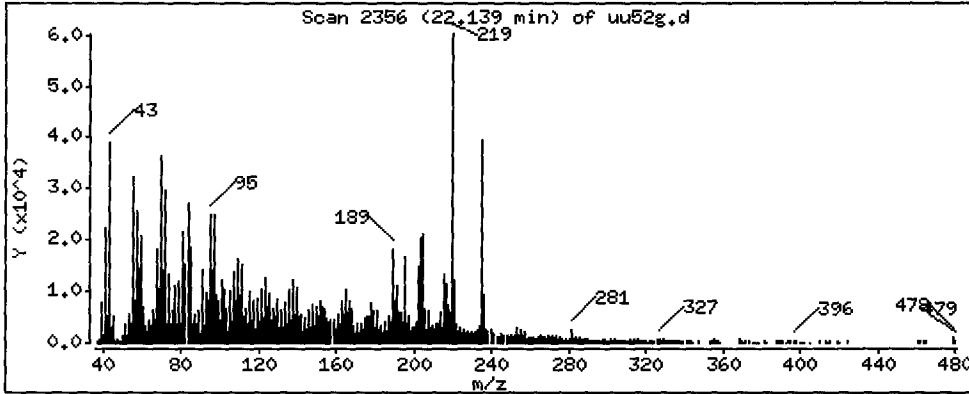
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

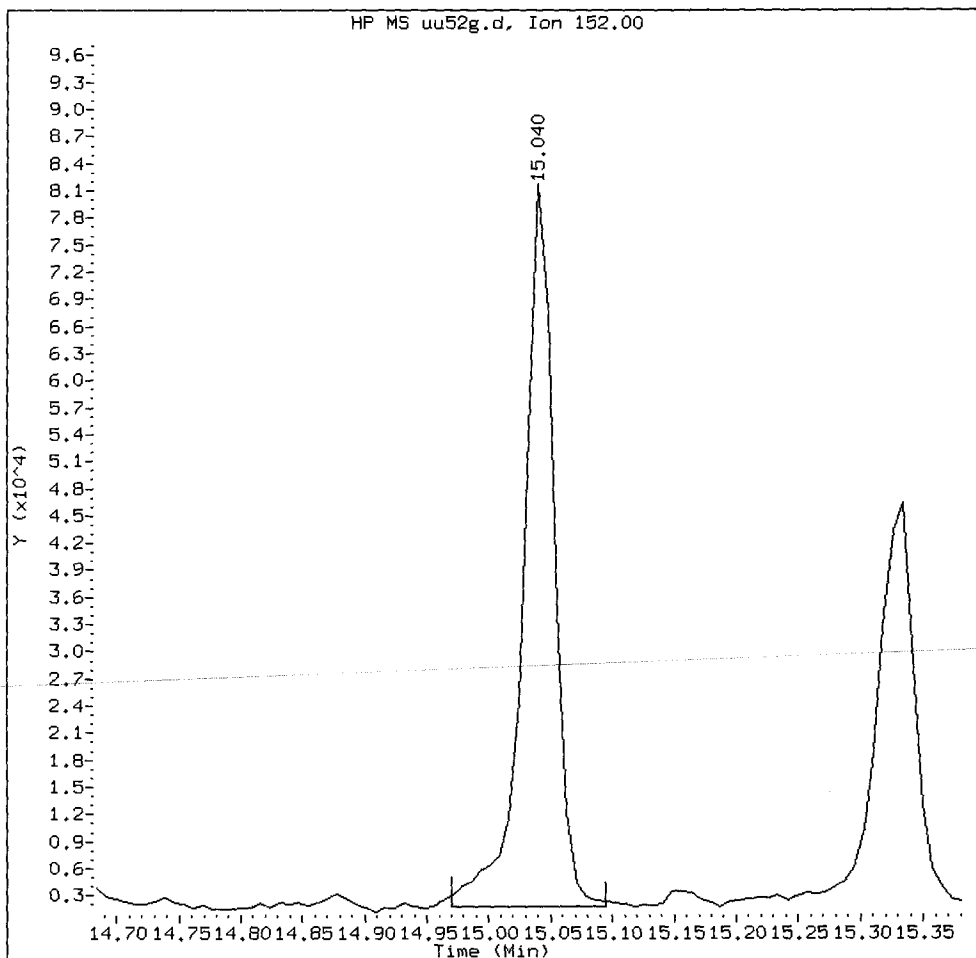
Concentration: 276.3 ug/kg

Handwritten circled 'S' and 'KPC' initials.



UU52G, /chem1/nt10.i/20120526.b/uu52g.d

Acenaphthylene Amount: 0.75 Area: 143385



MANUAL INTEGRATION for Acenaphthylene

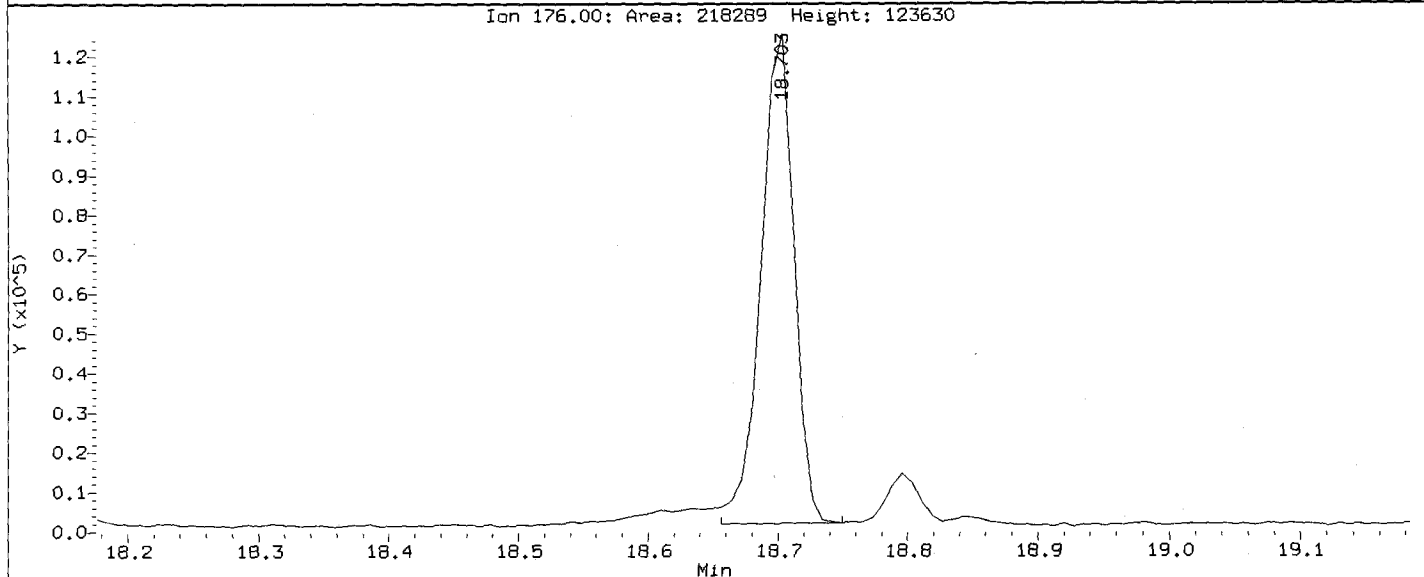
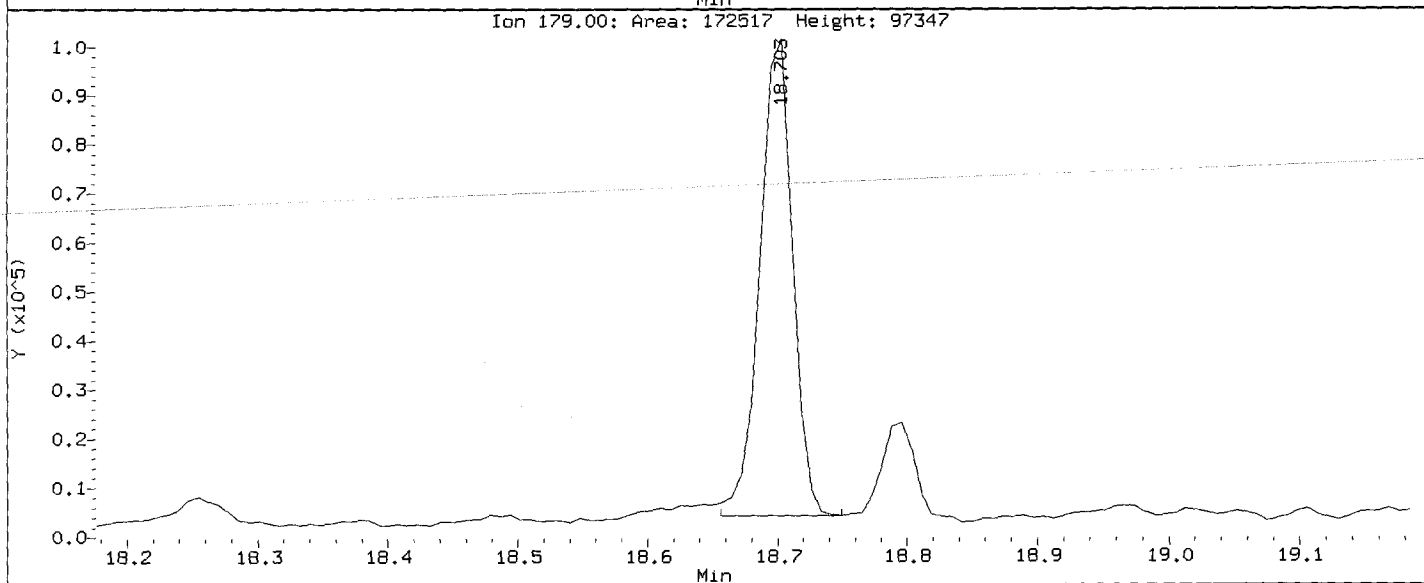
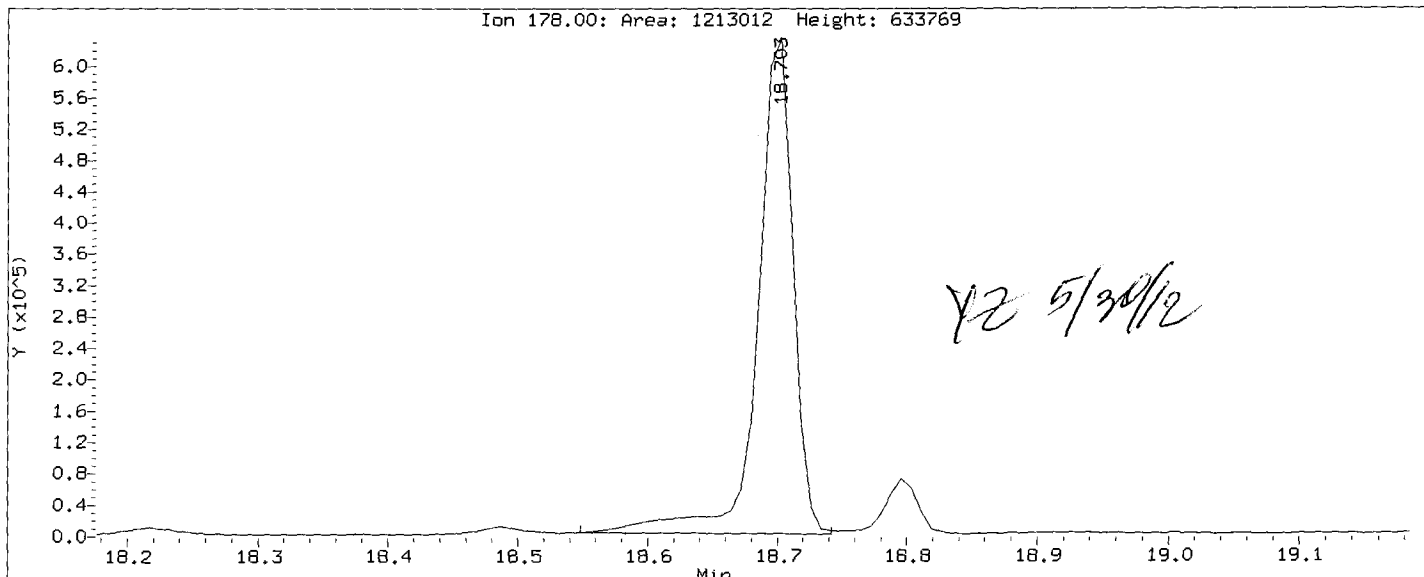
1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2 Date: 5/30/10

Data File: /chem1/nt10.i/20120526.b/uu52g.d
Injection Date: 26-MAY-2012 20:54
Instrument: nt10.i
Client Sample ID: MS006-SS-120515

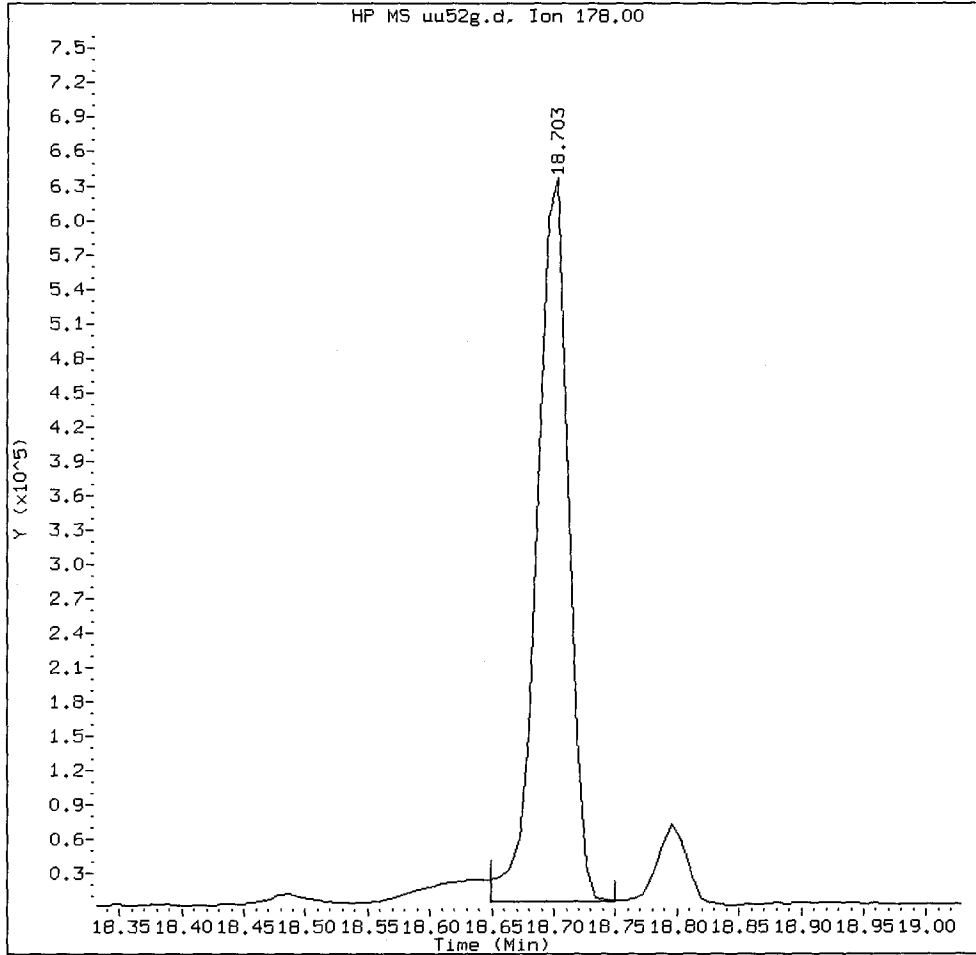
Compound: Phenanthrene
CAS Number: 85-01-8



UU52: 00929

UU52G, /chem1/nt10.i/20120526.b/uu52g.d

Phenanthrene Amount: 7.34 Area: 1146010



MANUAL INTEGRATION for Phenanthrene

- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

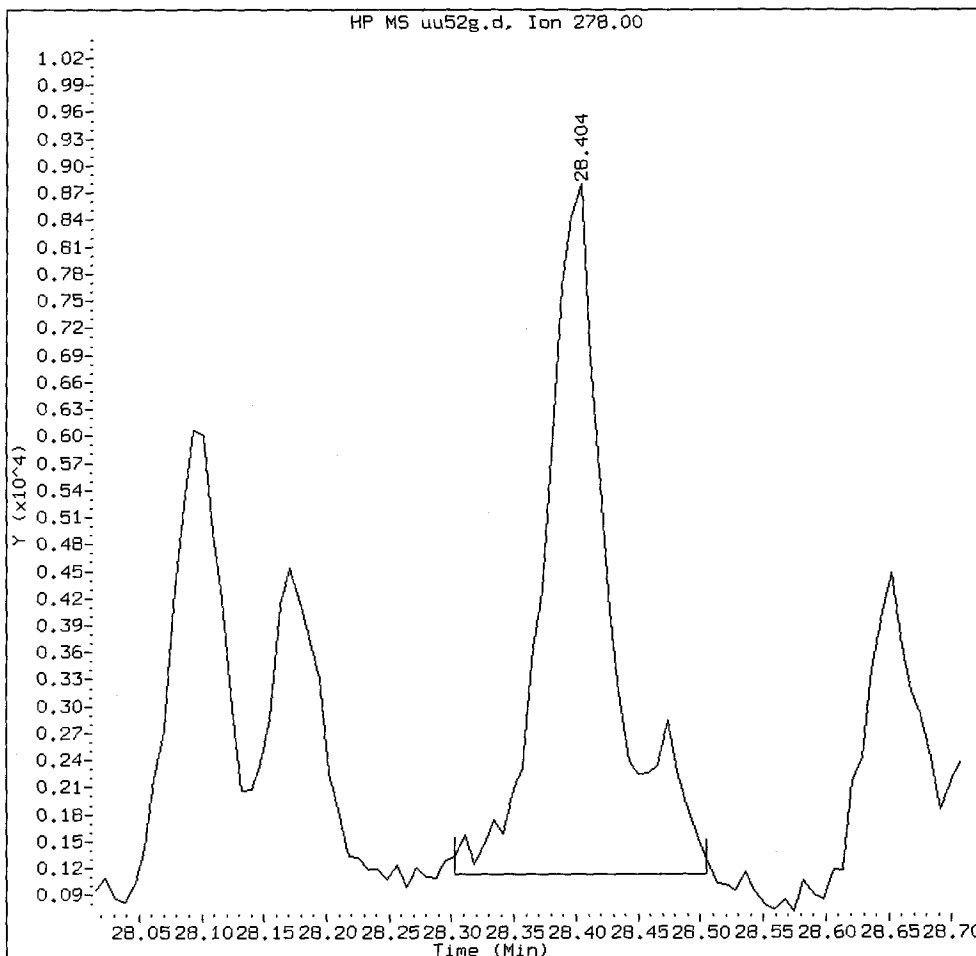
5. Other _____

Analyst: yz

Date: 5/29/12

UU52G, /chem1/nt10.i/20120526.b/uu52g.d

Dibenzo(a,h)anthracene Amount: 0.18 Area: 28561



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

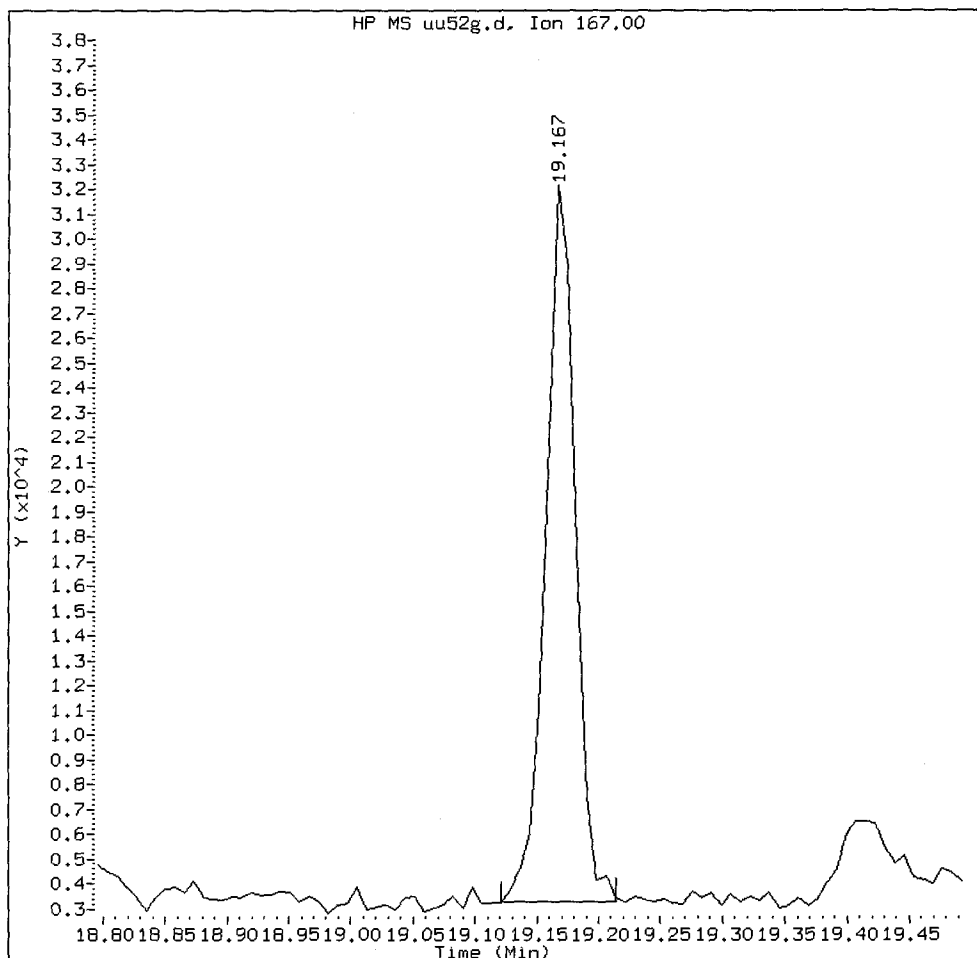
5. Other _____

Analyst: Y2

Date: 5/30/12

UU52G, /chem1/nt10.i/20120526.b/uu52g.d

Carbazole Amount: 0.32 Area: 48791



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 6/9/12

CO-ELUTION SUMMARY FOR FILE - uu52g.d

Lab ID: UU52G, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YZ 6/4/12

Data file : /chem1/nt10.i/20120526.b/uu52h.d
 Lab Smp Id: UU52H Client Smp ID: MS007-SS-120515
 Inj Date : 26-MAY-2012 21:31
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52H,3
 Misc Info : 12-8900
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120526.b/ABN.m
 Meth Date : 04-Jun-2012 10:50 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 10
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 63.40000 | Weight of sample extracted (g) |
| M | 83.90000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.583 | 6.537 | (0.743) | 106219 | 1.56391 | 459.6 |
| \$ 2 Phenol-d5 | 99 | 8.275 | 8.237 | (0.934) | 139107 | 1.64420 | 483.2 |
| 3 Phenol | 94 | 8.299 | 8.260 | (0.936) | 132785 | 1.47244 | 432.8 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.476 | (0.959) | 125929 | 1.69892 | 499.3 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.855 | (1.000) | 194227 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.243 | 9.236 | (1.043) | 50496 | 1.03847 | 305.2 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | 9.197 | 9.166 | (1.038) | 15191 | 0.40095 | 117.8 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | | 108 | 9.764 | 9.725 | (1.102) | 446673 | 6.02365 | 1770 |
| \$ 18 Nitrobenzene-d5 | | 82 | 10.043 | 10.027 | (0.872) | 72052 | 1.06323 | 312.5 |
| 19 Nitrobenzene | | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | | 105 | 11.103 | 11.087 | (0.964) | 190648 | 4.35579 | 1280 |
| 25 2,4-Dichlorophenol | | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | | 136 | 11.512 | 11.504 | (1.000) | 756334 | 4.00000 | |
| 28 Naphthalene | | 128 | 11.550 | 11.542 | (1.003) | 1444452 | 7.57560 | 2227 |
| 29 4-Chloroaniline | | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | | 142 | 13.051 | 13.043 | (1.134) | 131540 | 0.99236 | 291.7 |
| 33 Hexachlorocyclopentadiene | | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | | 172 | 13.910 | 13.902 | (0.904) | 171038 | 1.12673 | 331.1 |
| 37 2-Chloronaphthalene | | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | | 152 | 15.048 | 15.032 | (0.978) | 95237 | 0.48425 | 142.3 (M) |
| 41 2,6-Dinitrotoluene | | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | | 164 | 15.388 | 15.373 | (1.000) | 437900 | 4.00000 | |
| 43 3-Nitroaniline | | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | | 153 | 15.458 | 15.442 | (1.005) | 50993 | 0.42987 | 126.3 |
| 45 2,4-Dinitrophenol | | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | | 168 | 15.806 | 15.798 | (1.027) | 123523 | 0.71076 | 208.9 |
| 47 4-Nitrophenol | | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | | 149 | 16.486 | 16.470 | (1.071) | 17562 | 0.13389 | 39.35 |
| 49 Fluorene | | 166 | 16.579 | 16.563 | (1.077) | 54703 | 0.41080 | 120.7 |
| 51 4-Chlorophenyl-phenylether | | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | | 330 | 17.165 | 17.142 | (1.115) | 33708 | 1.86496 | 548.1 |
| 56 4-Bromophenyl-phenylether | | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | | 188 | 18.657 | 18.633 | (1.000) | 626572 | 4.00000 | |
| 60 Phenanthrene | | 178 | 18.703 | 18.687 | (1.002) | 583528 | 3.61164 | 1061 |
| 61 Anthracene | | 178 | 18.804 | 18.780 | (1.008) | 97353 | 0.57680 | 169.5 |

| Compounds | QUANT SIG | | | CONCENTRATIONS | | | | |
|-----------------------------------|-----------|------------------------|--------|----------------|----------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.175 | 19.144 | (1.028) | 32390 | 0.20741 ✓ | 60.96 (M) | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.140 | 21.101 | (1.133) | 665243 | 3.62638 ✓ | 1066 | |
| 65 Pyrene | 202 | 21.542 | 21.519 | (0.908) | 700309 | 3.27112 ✓ | 961.4 | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.844 | (0.921) | 158571 | 1.18236 | 347.5 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo(a)anthracene | 228 | 23.695 | 23.679 | (0.999) | 125213 | 0.63264 ✓ | 185.9 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.710 | (1.000) | 703620 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.764 | 23.749 | (1.002) | 169876 | 0.97567 ✓ | 286.8 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.818 | (0.961) | 61208 | 0.39738 ✓ | 116.8 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.809 | 24.794 | (1.000) | 1121633 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo(a)pyrene | 252 | 26.025 | 26.002 | (0.996) | 158903 | 0.92290 ✓ | 271.2 | |
| * 77 Perylene-d12 | 264 | 26.133 | 26.102 | (1.000) | 665896 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.396 | 28.342 | (1.087) | 132436 | 0.66496 ✓ | 195.4 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.404 | 28.365 | (1.087) | 31302 | 0.19952 ✓ | 58.64 (M) | |
| 80 Benzo(g,h,i)perylene | 276 | 29.049 | 29.002 | (1.112) | 144624 | 0.84681 ✓ | 248.9 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.275 | (1.155) | 75342 | 0.55734 ✓ | 163.8 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.467 | 25.483 | (0.975) | 339079 | 1.83516 ✓ | 539.4 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.146 | 22.131 | (0.933) | 28665 | 0.28753 | 84.51 | |

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: uu52h.d
 Lab Smp Id: UU52H
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120526.b/ABN.m
 Misc Info: 12-8900

Calibration Date: 26-MAY-2012
 Calibration Time: 10:59
 Client Smp ID: MS007-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 194227 | 2.49 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 756334 | 3.48 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 437900 | 4.09 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 626572 | -1.94 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 703620 | 9.08 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1121633 | 10.38 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 665896 | 2.44 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.09 |
| 27 Naphthalene-d8 | 11.50 | 11.00 | 12.00 | 11.51 | 0.07 |
| 42 Acenaphthene-d10 | 15.37 | 14.87 | 15.87 | 15.39 | 0.10 |
| 59 Phenanthrene-d10 | 18.63 | 18.13 | 19.13 | 18.66 | 0.12 |
| 69 Chrysene-d12 | 23.71 | 23.21 | 24.21 | 23.73 | 0.07 |
| 134 Di-n-octylphthala | 24.79 | 24.29 | 25.29 | 24.81 | 0.06 |
| 77 Perylene-d12 | 26.10 | 25.60 | 26.60 | 26.13 | 0.12 |

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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52H | Client Smp ID: MS007-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120526.b/ABN.m | |
| Misc Info: 12-8900 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 734.8 | 459.6 | 62.56 | 30-160 |
| \$ 2 Phenol-d5 | 734.8 | 483.2 | 65.77 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 734.8 | 499.3 | 67.96 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 489.8 | 305.2 | 62.31 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 489.8 | 312.5 | 63.79 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 489.8 | 331.1 | 67.60 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 734.8 | 548.1 | 74.60 | 30-160 |
| \$ 66 Terphenyl-d14 | 489.8 | 347.5 | 70.94 | 30-160 |

Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

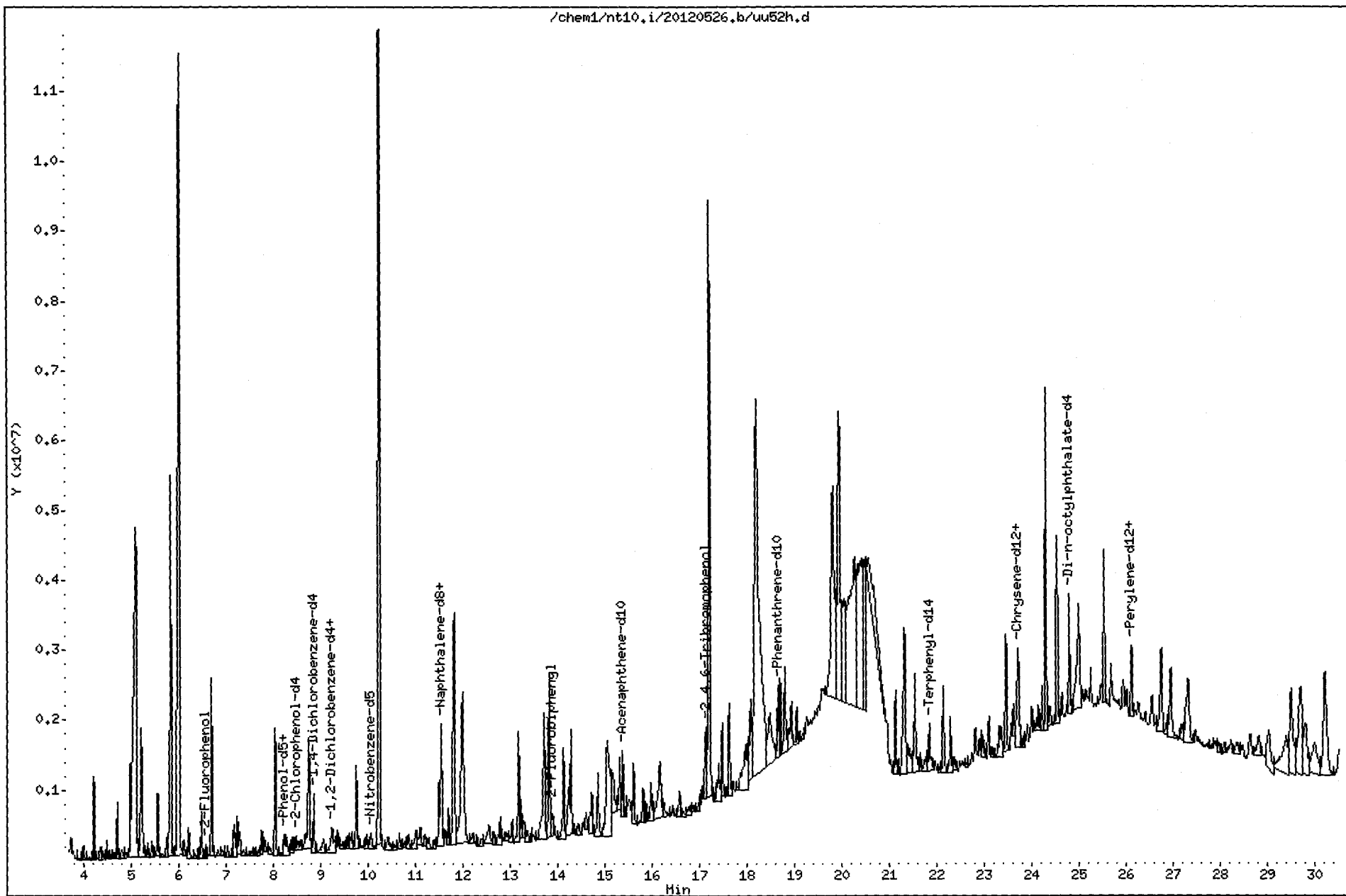
Sample Info: UU52H,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UU52:00939

Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

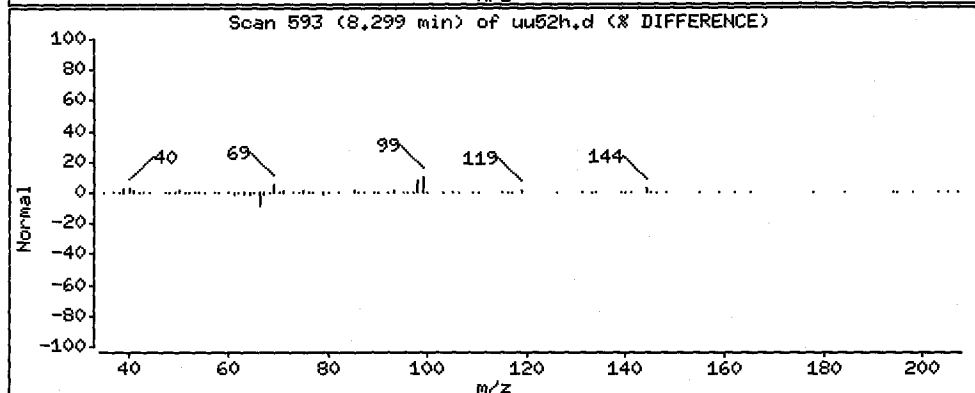
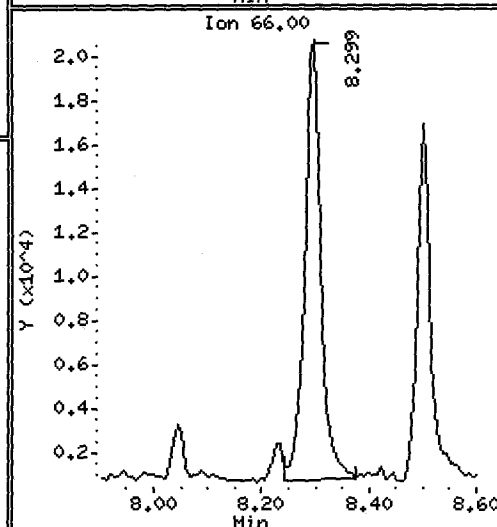
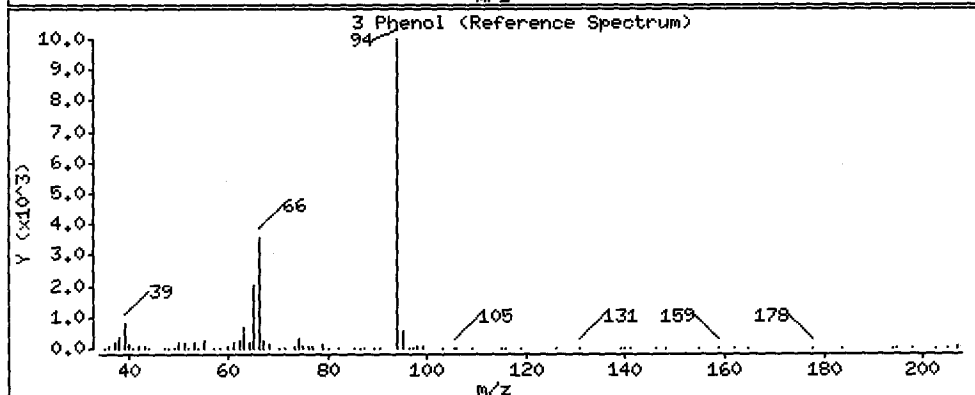
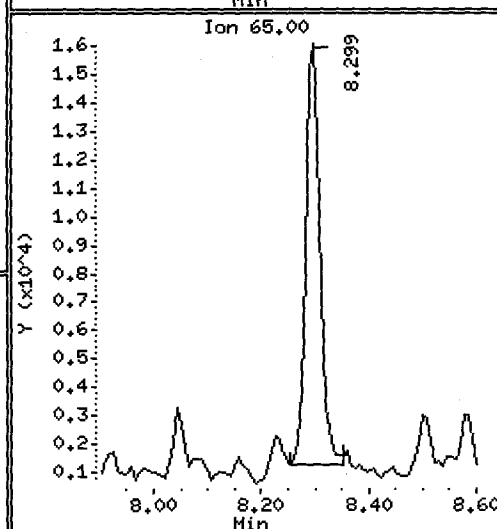
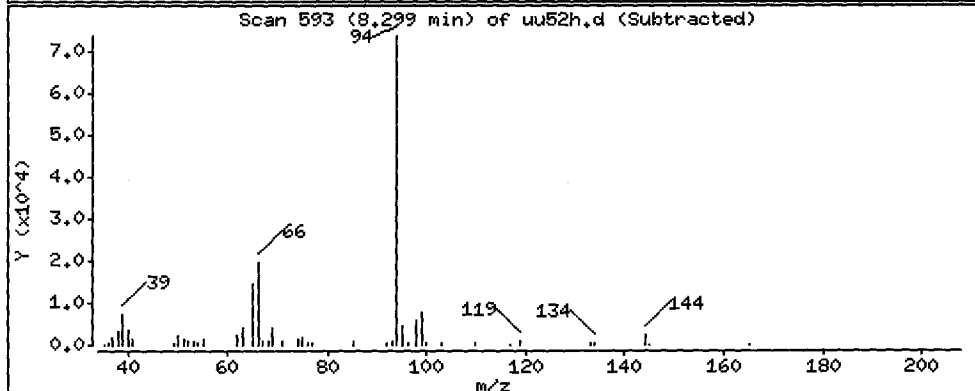
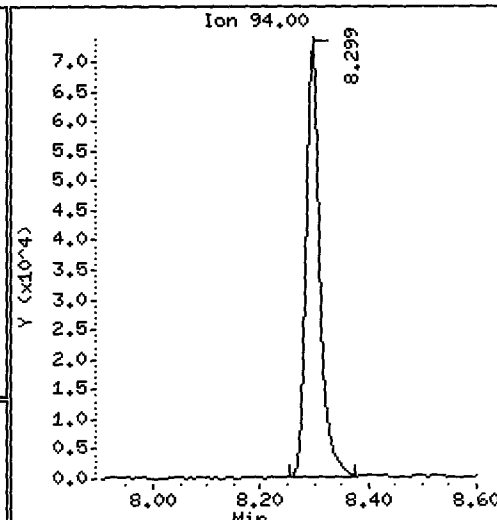
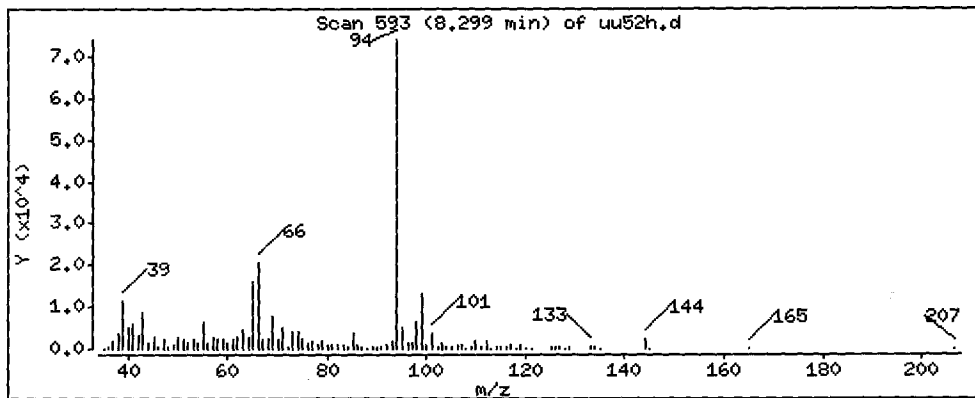
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 432.8 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

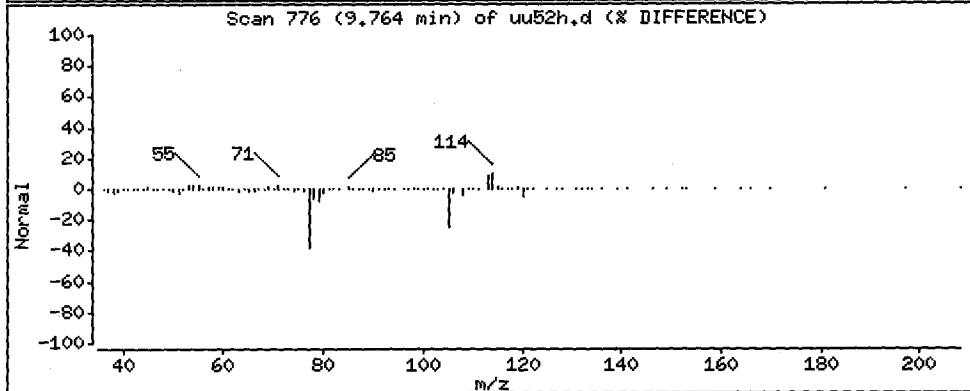
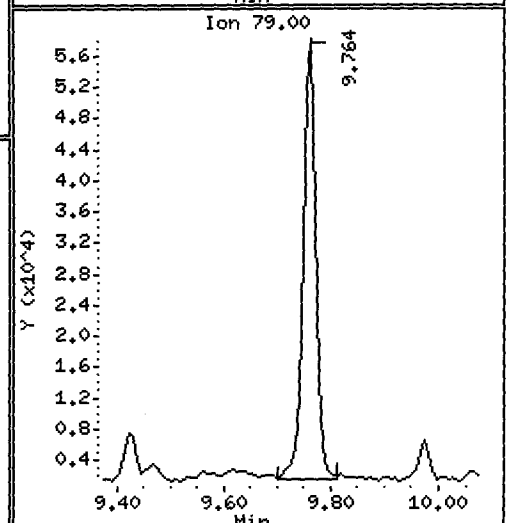
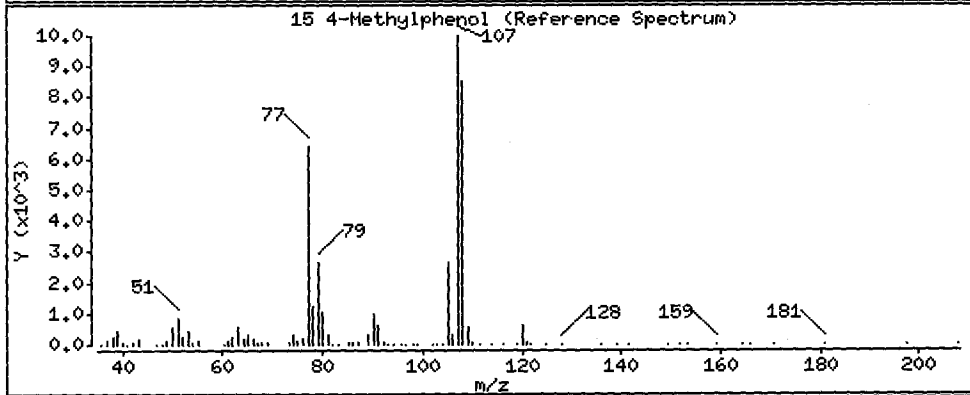
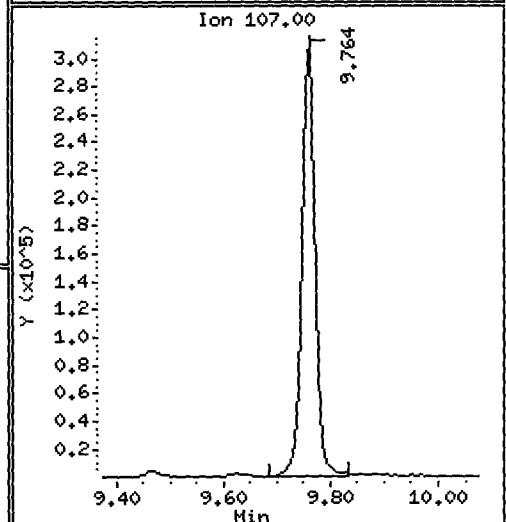
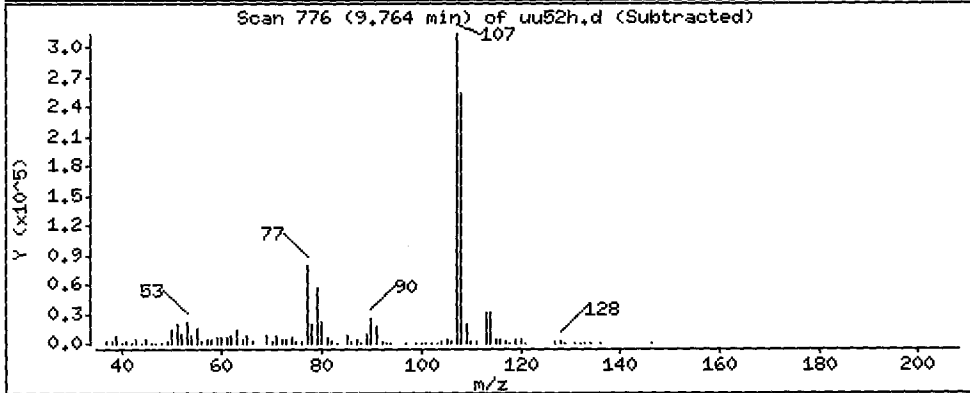
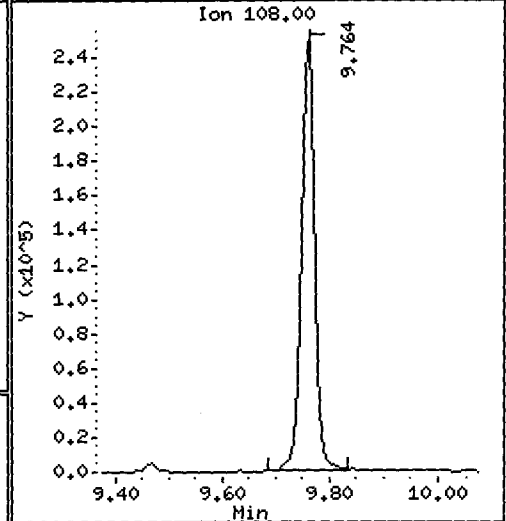
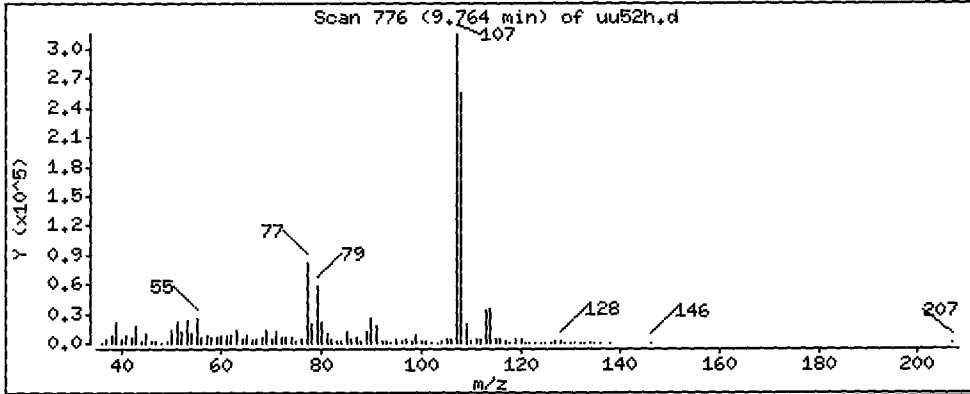
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1770 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

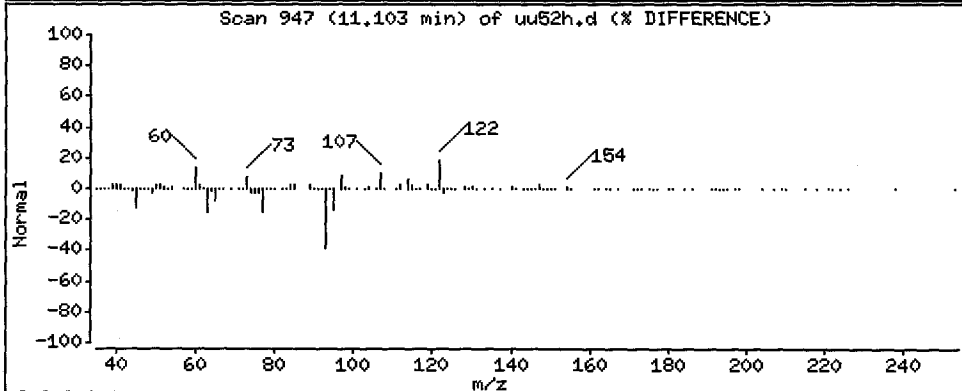
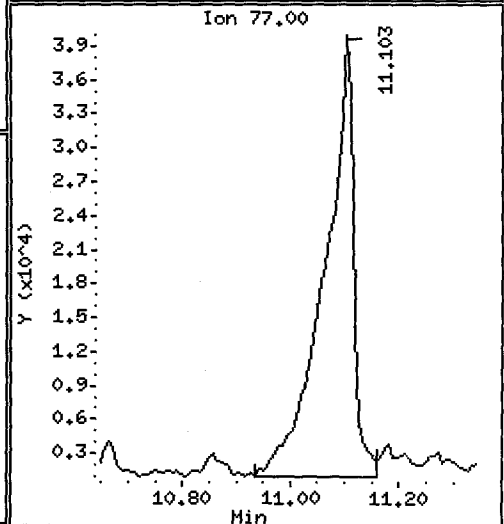
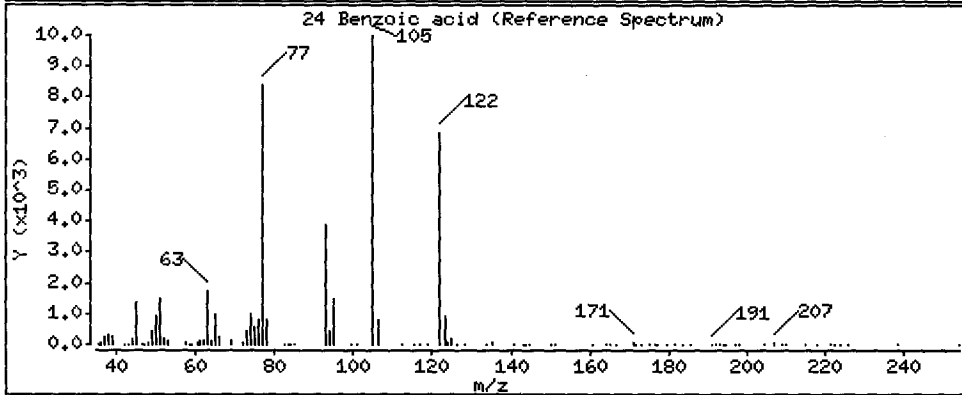
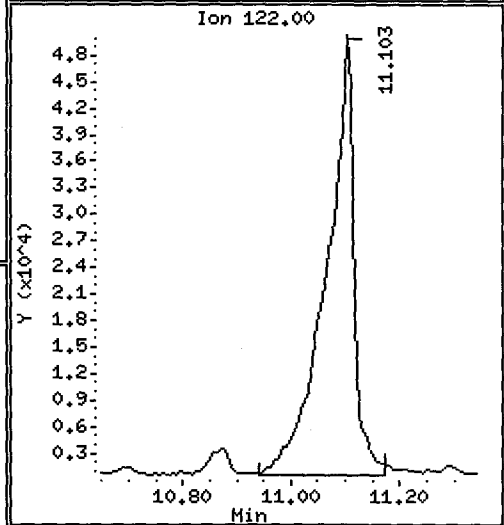
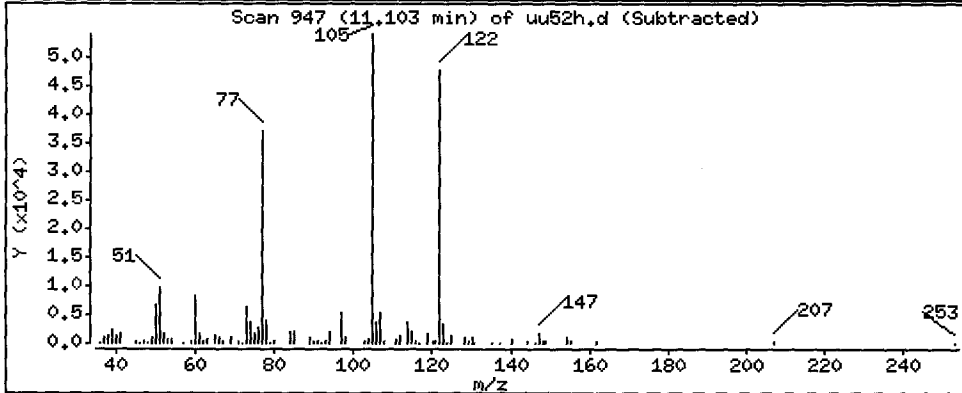
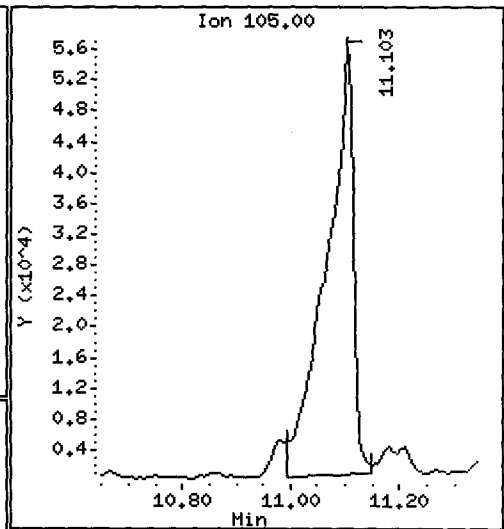
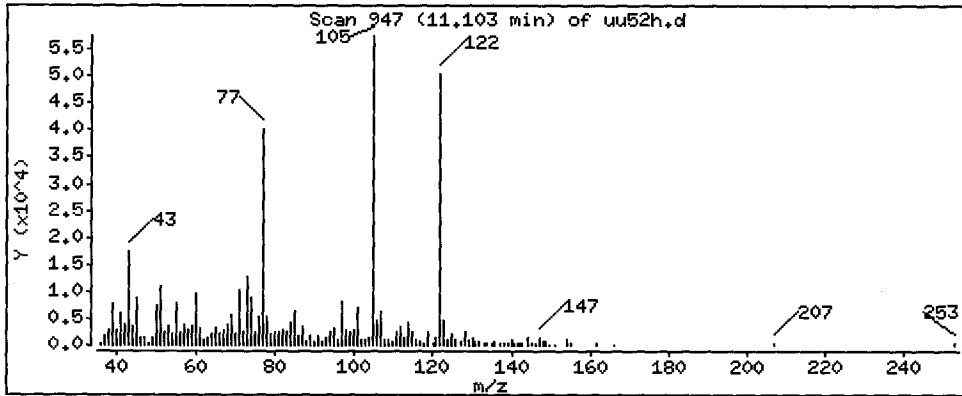
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1280 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

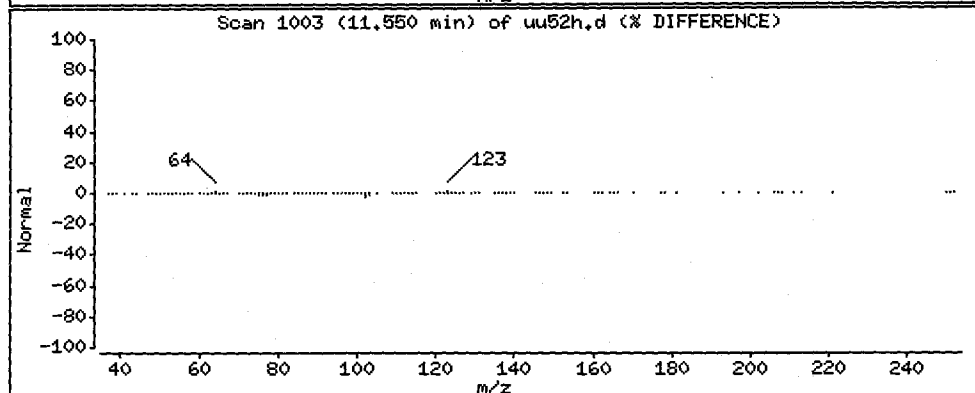
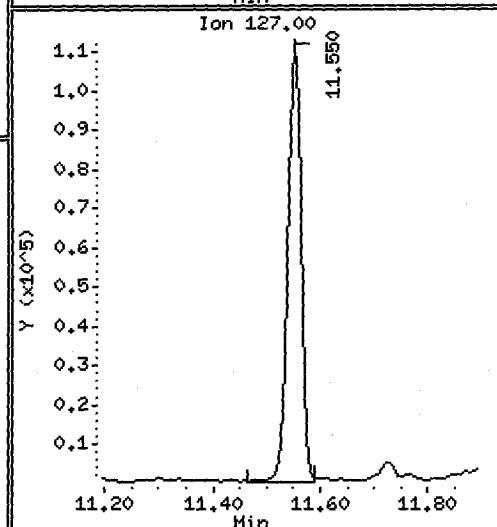
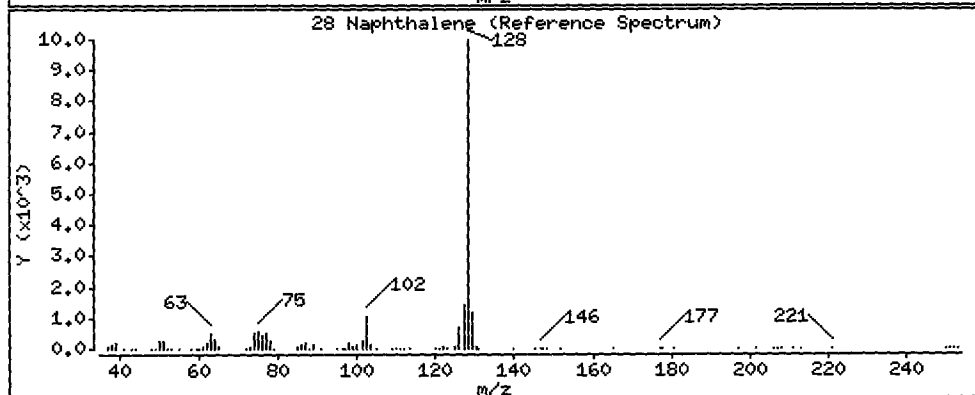
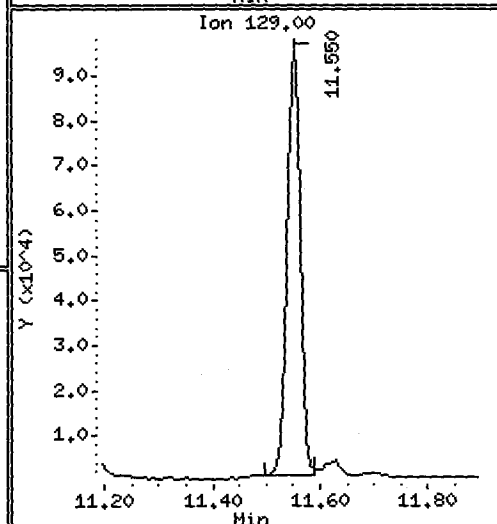
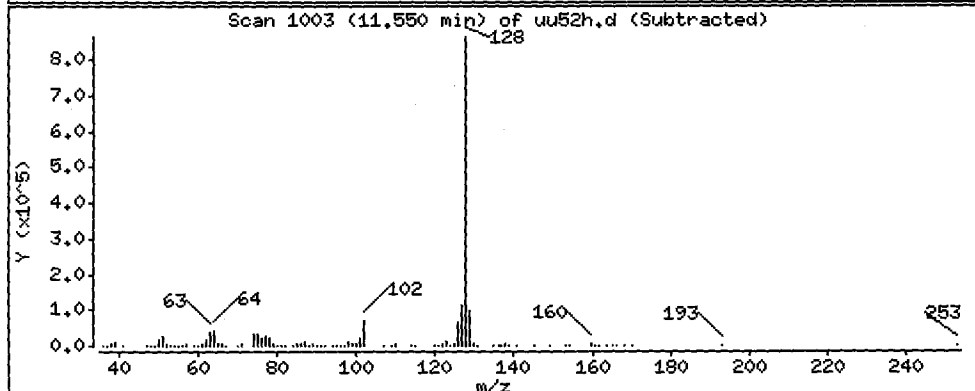
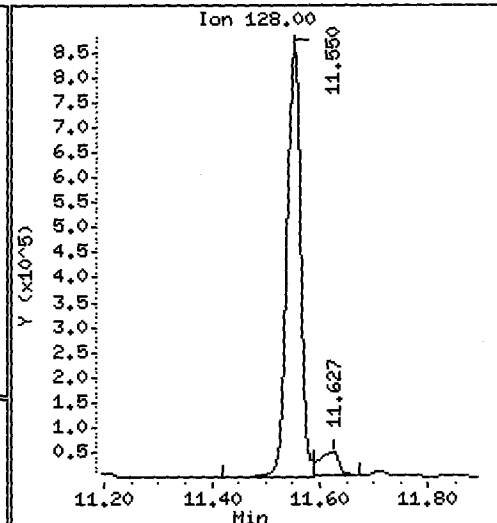
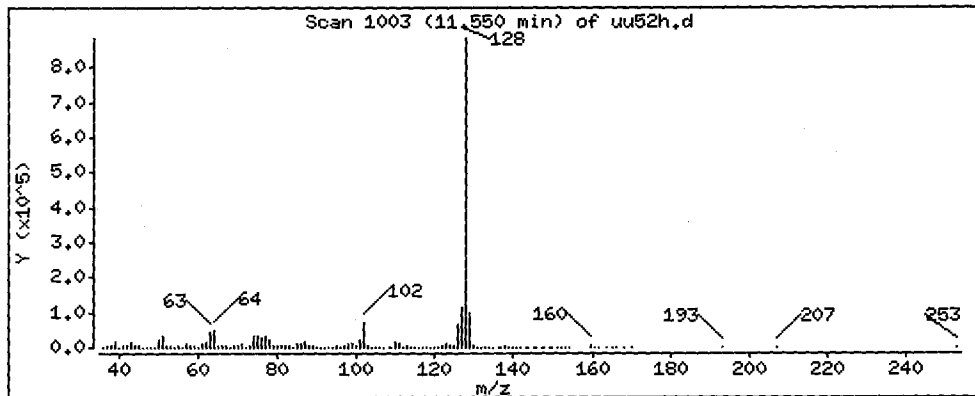
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 2227 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

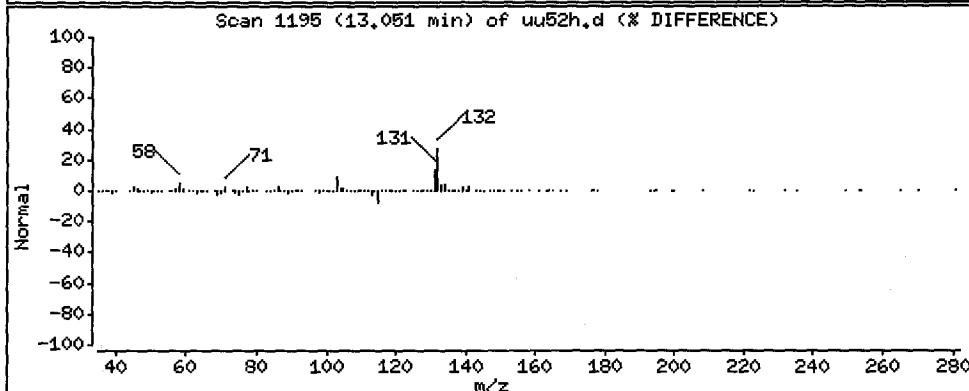
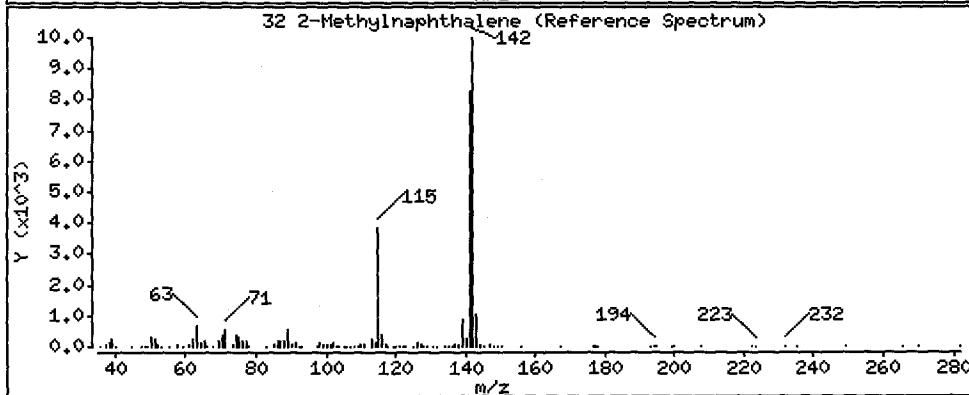
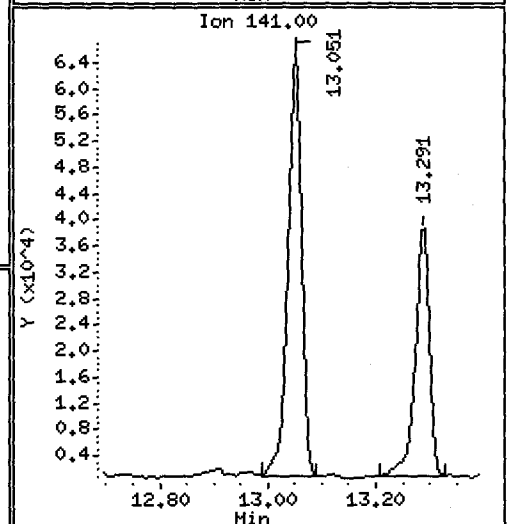
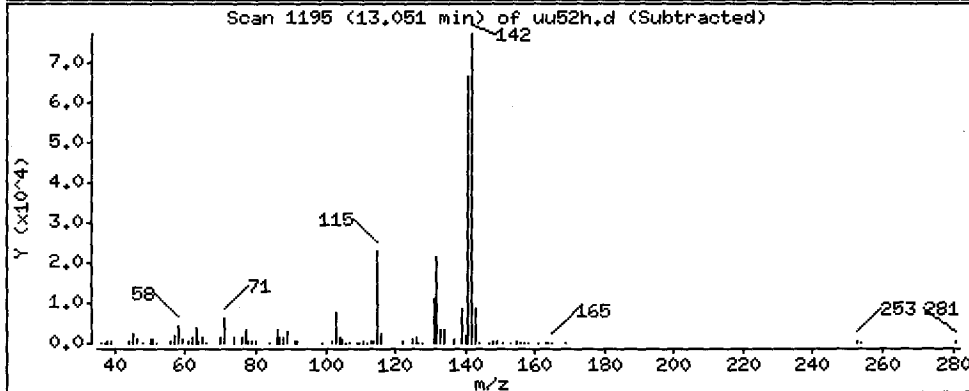
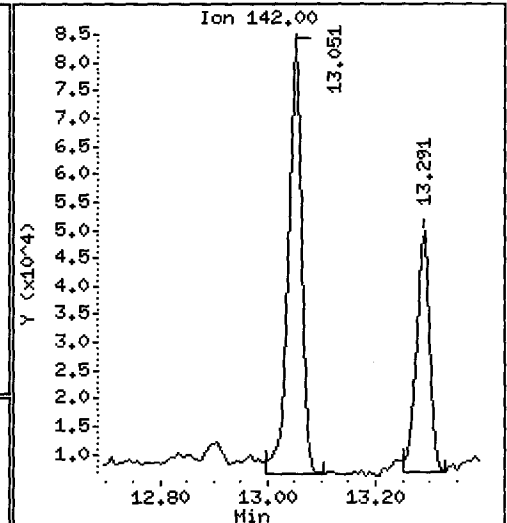
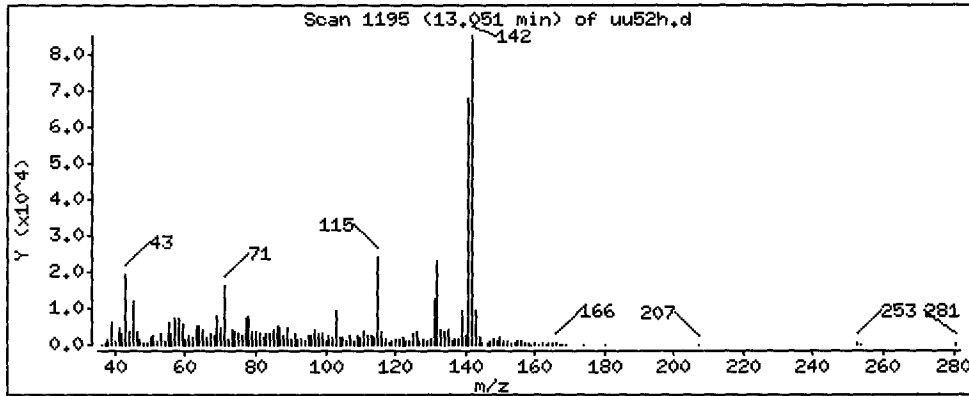
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 291.7 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

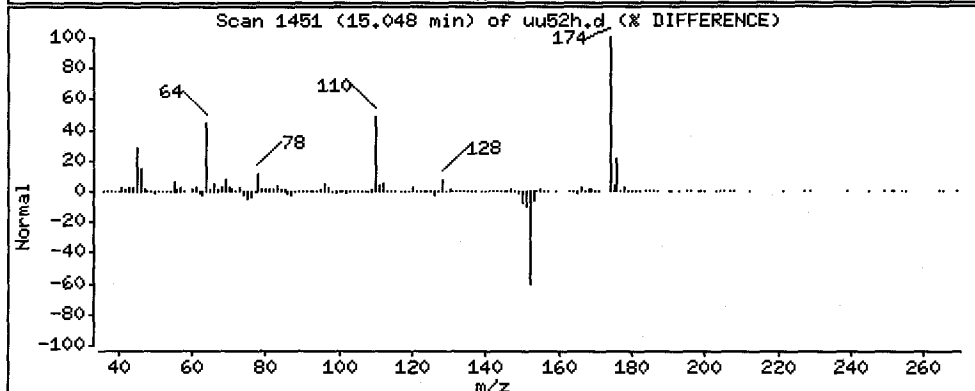
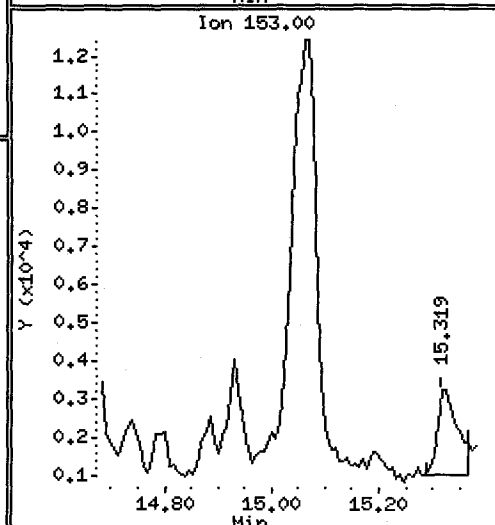
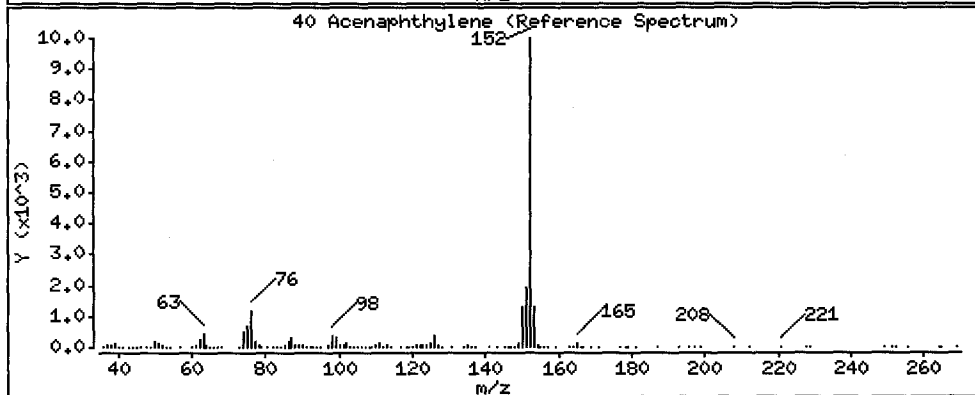
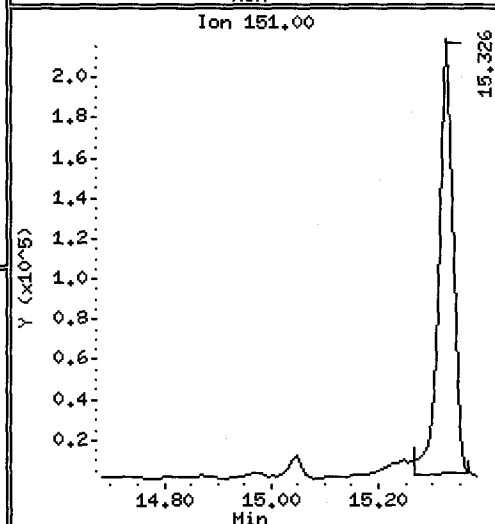
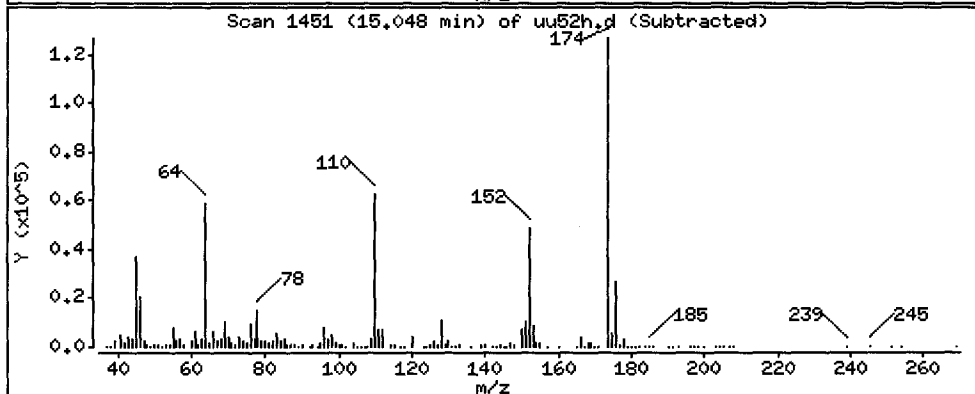
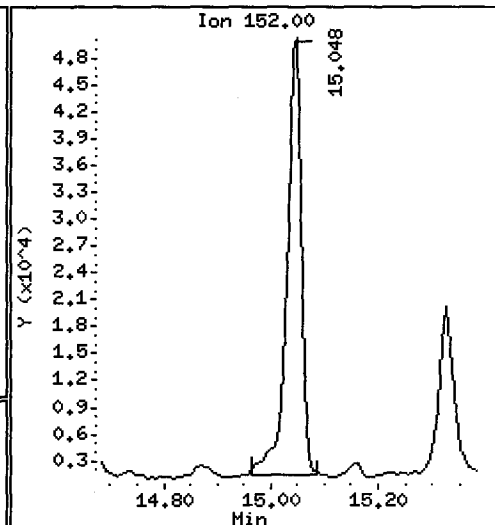
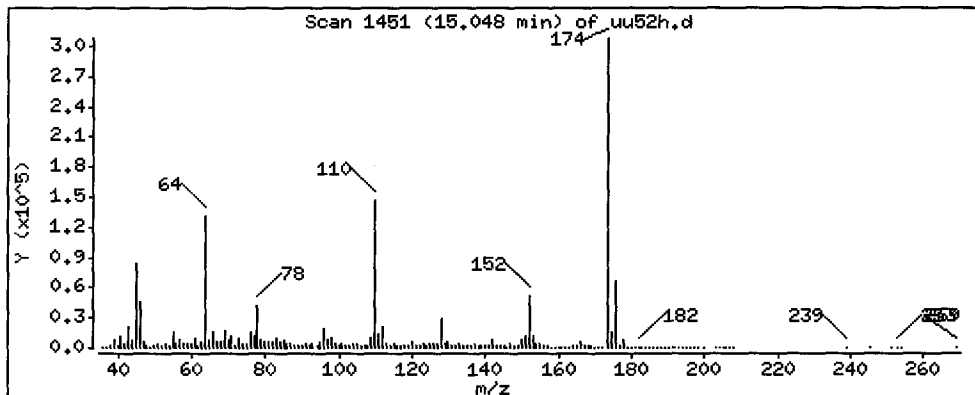
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 142.3 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

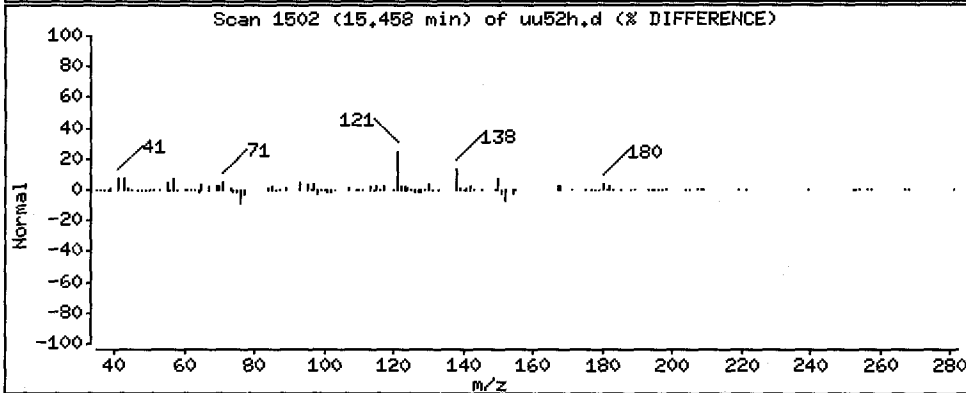
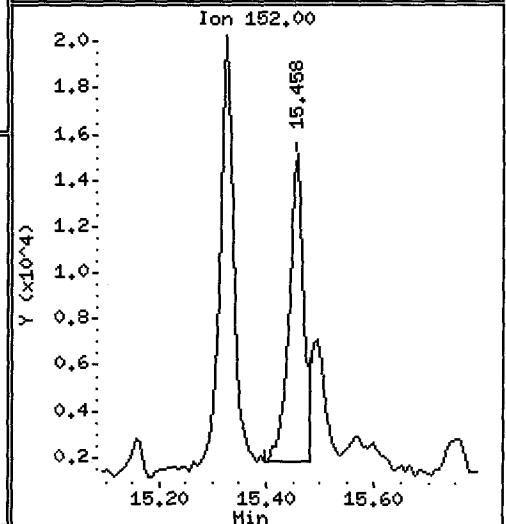
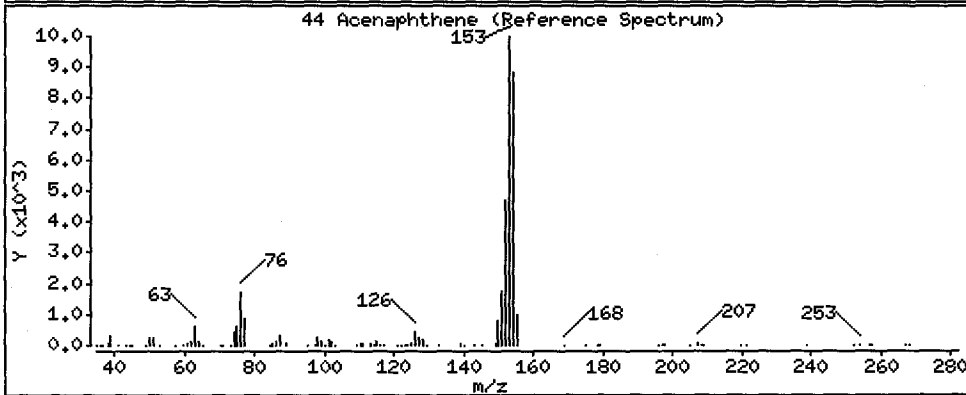
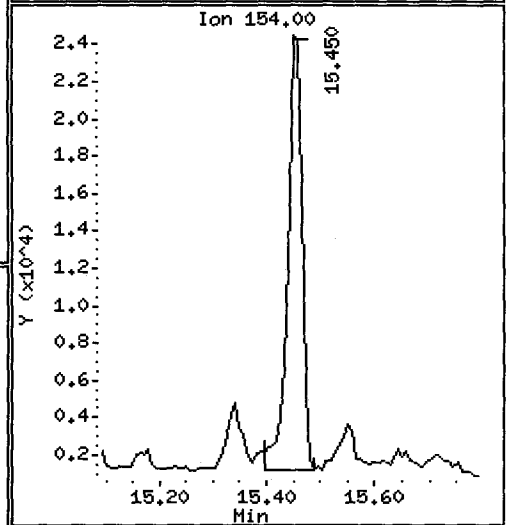
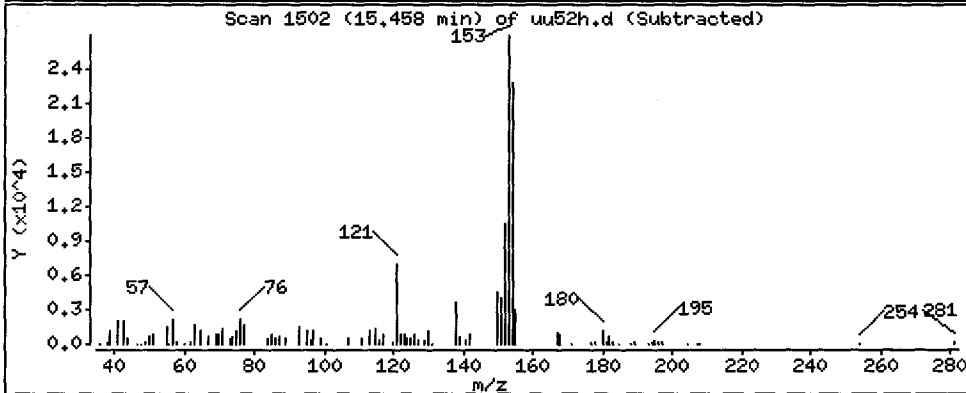
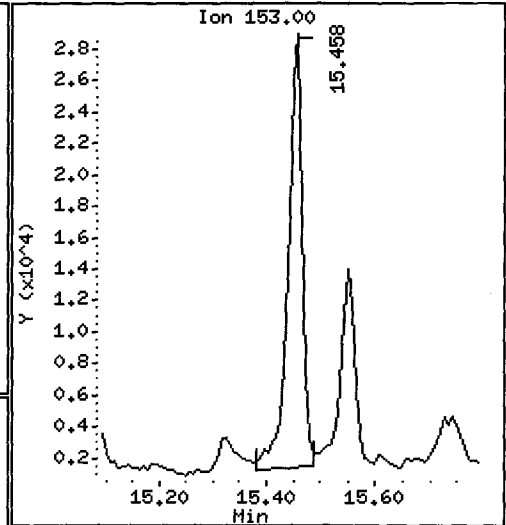
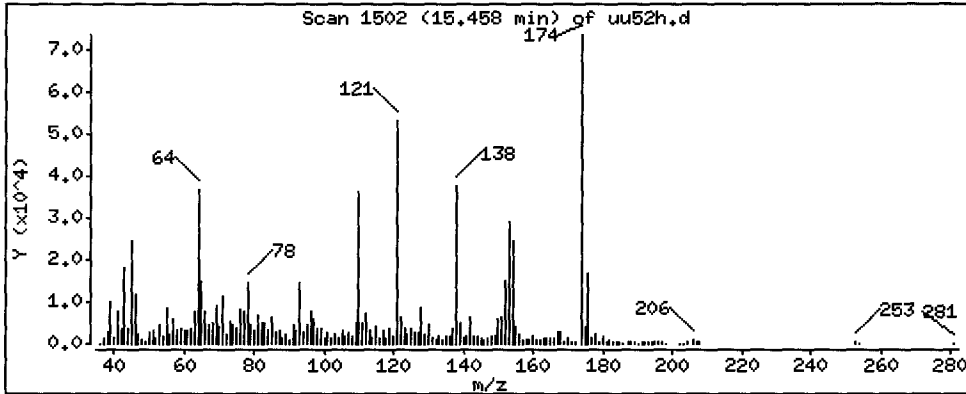
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 126.3 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

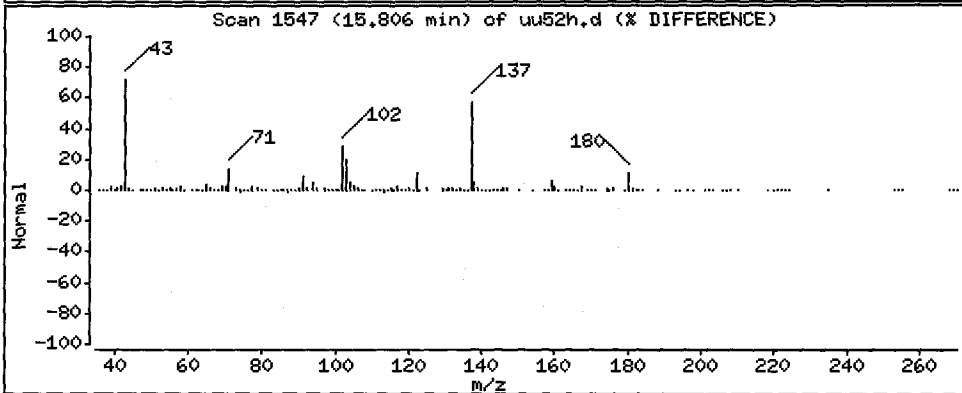
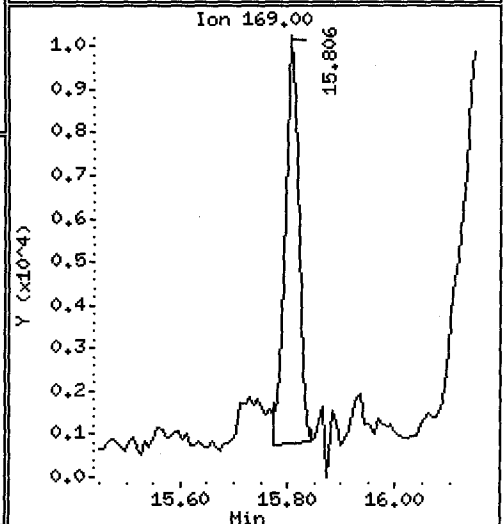
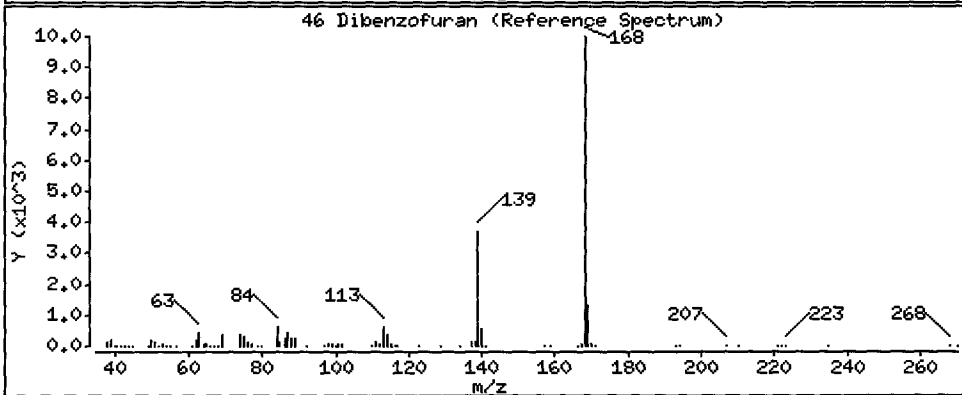
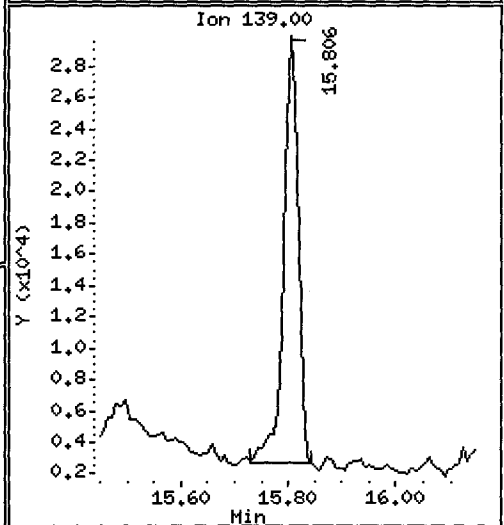
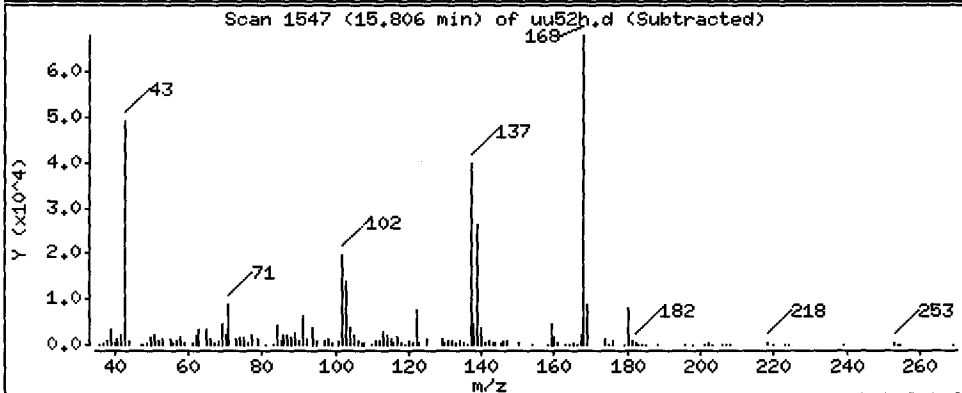
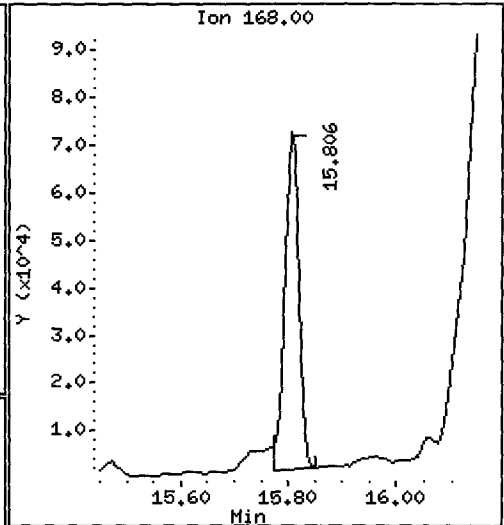
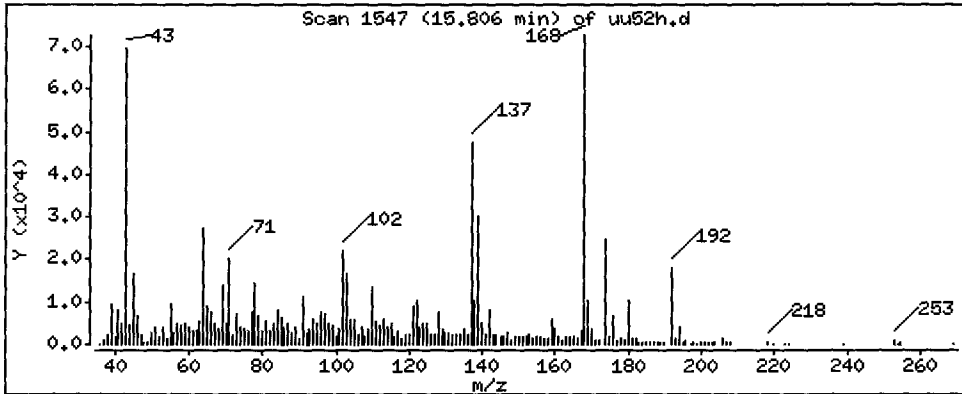
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 208.9 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

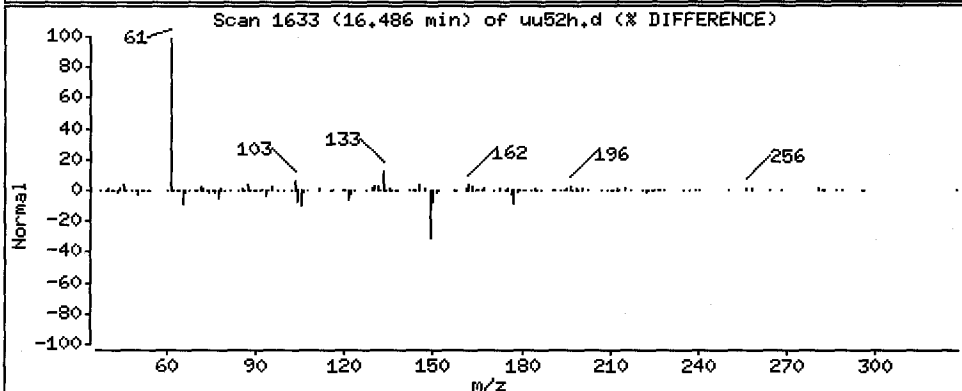
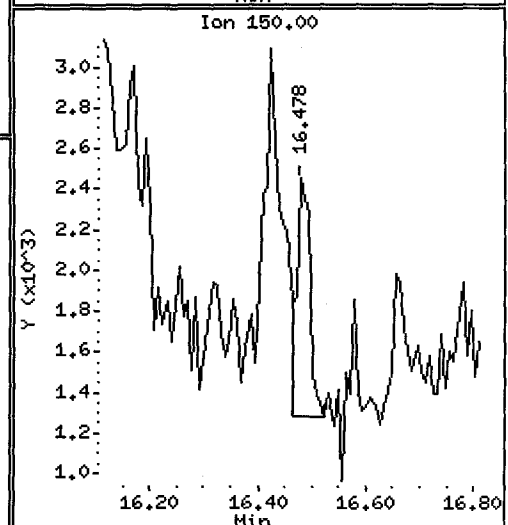
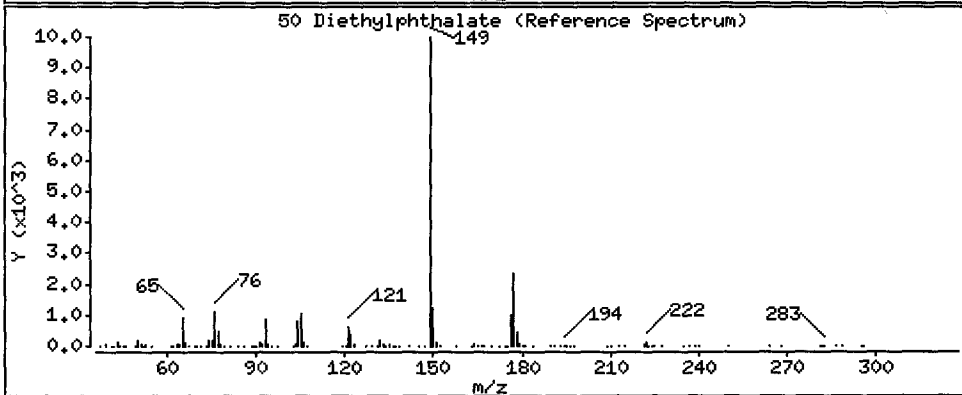
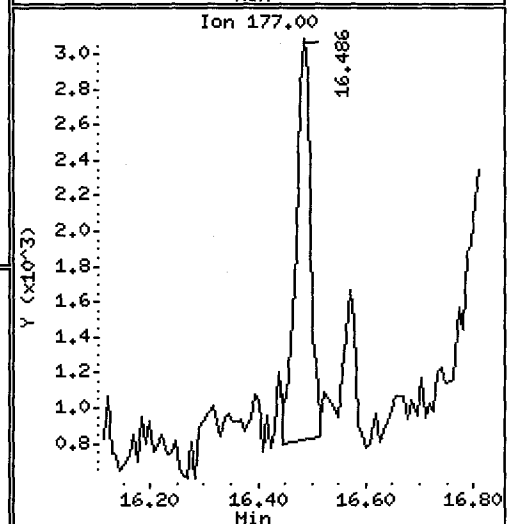
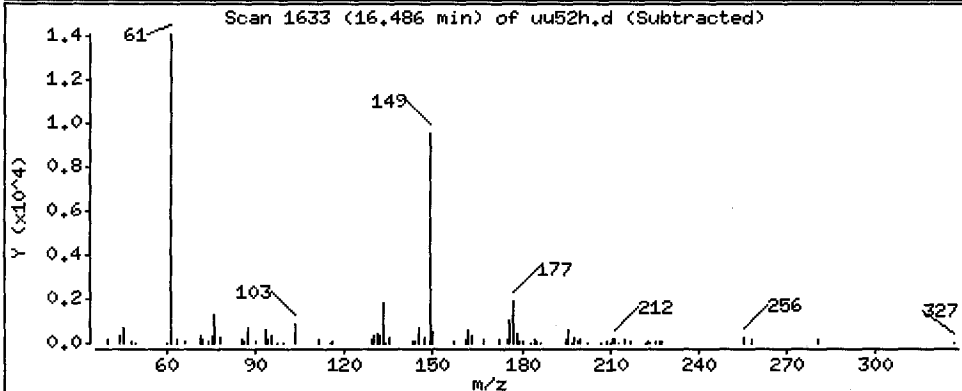
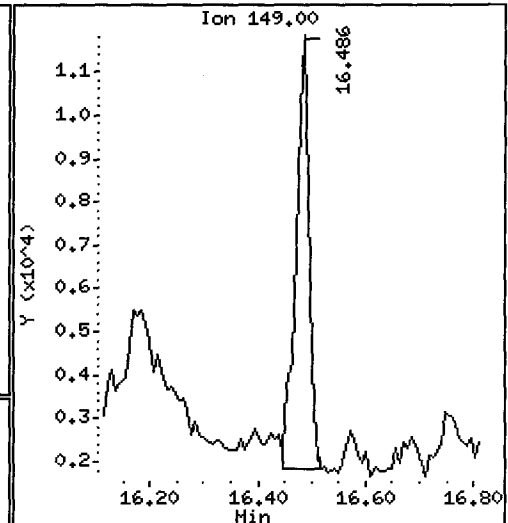
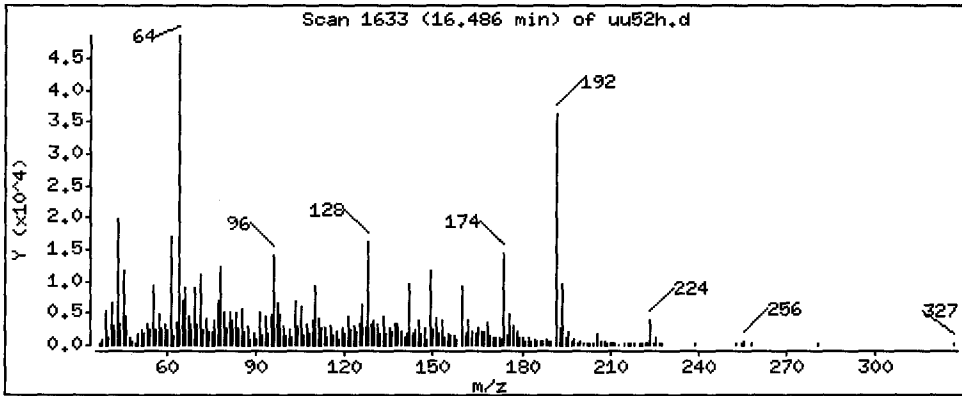
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 39.35 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

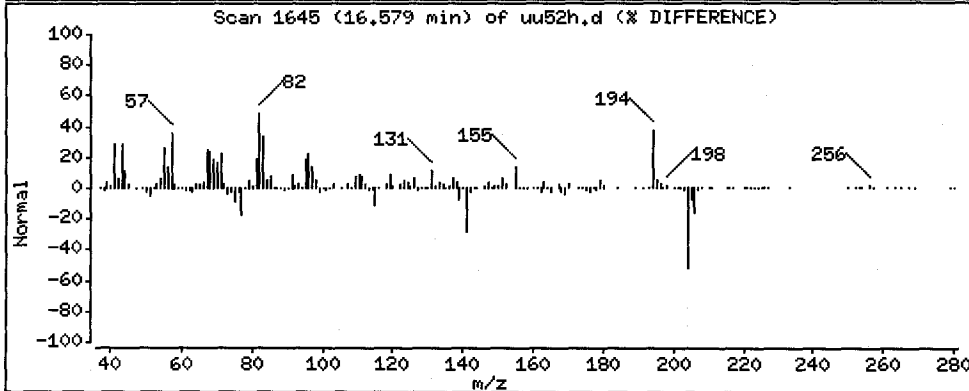
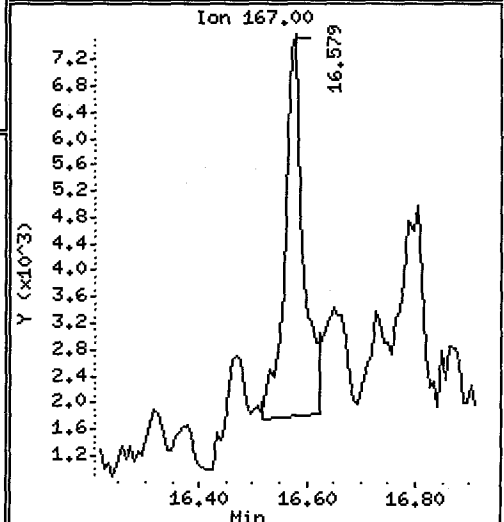
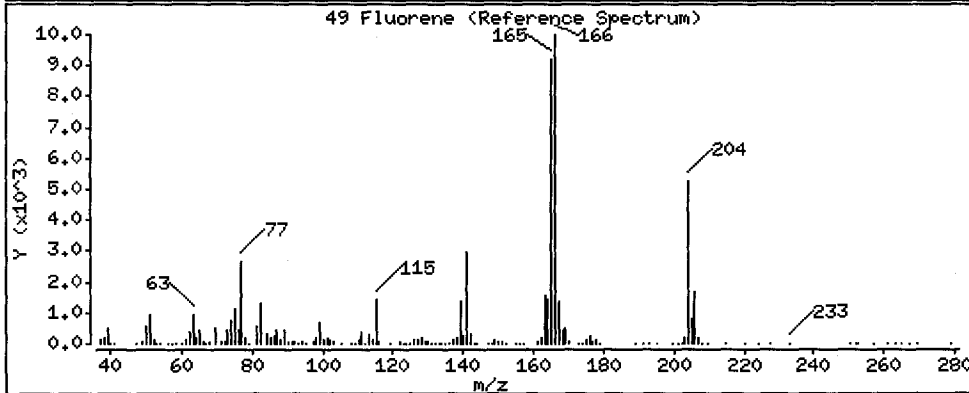
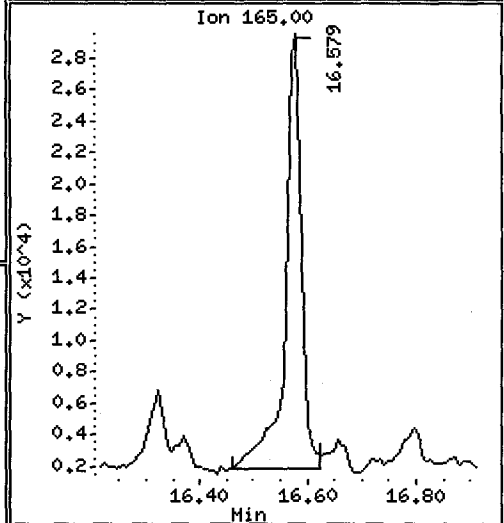
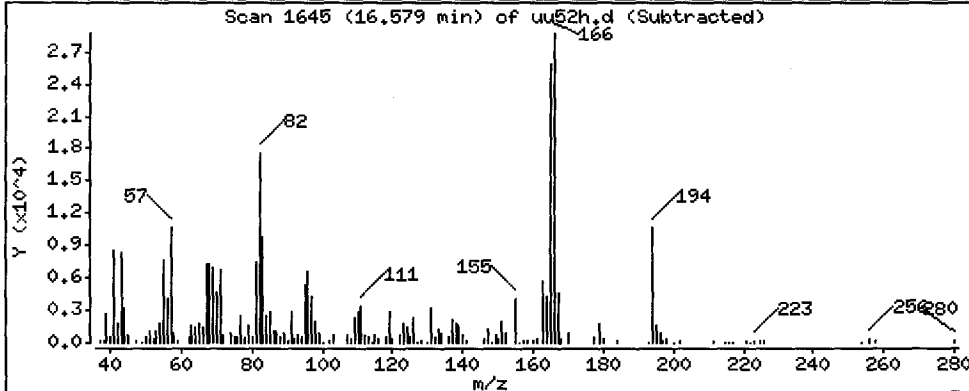
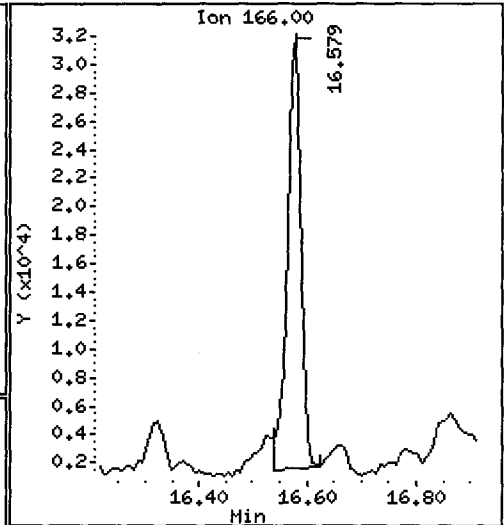
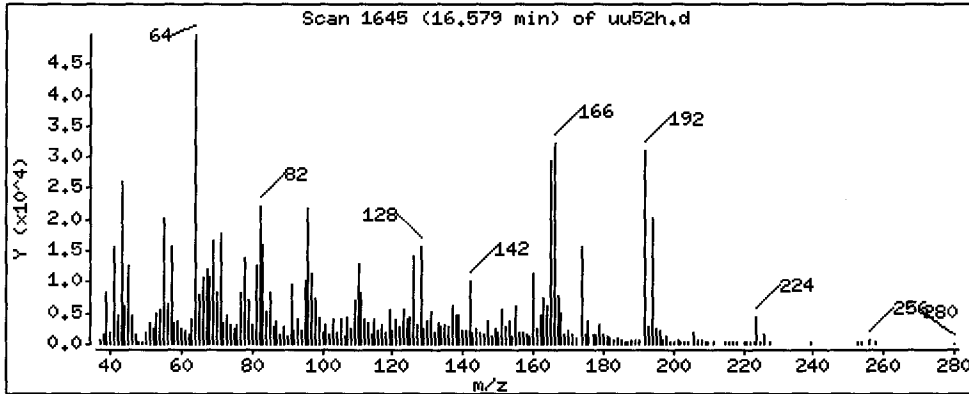
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 120.7 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

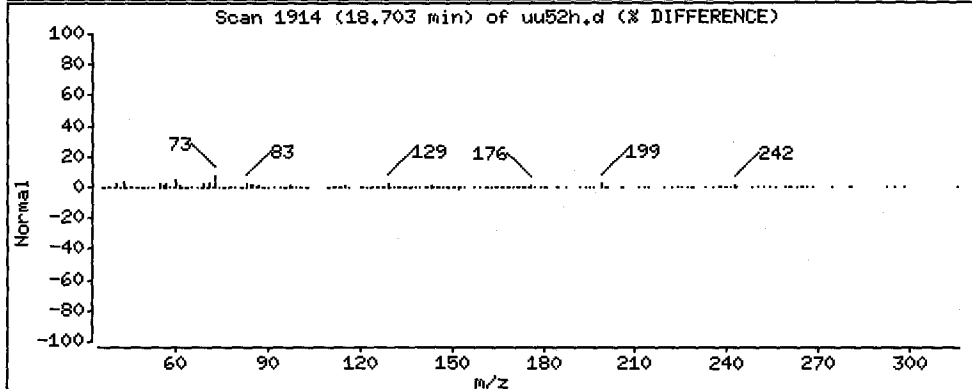
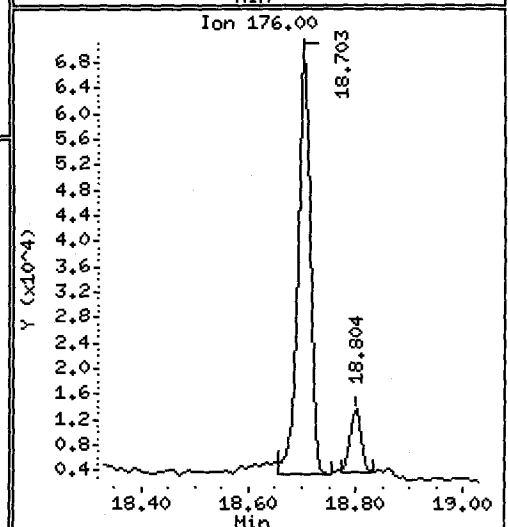
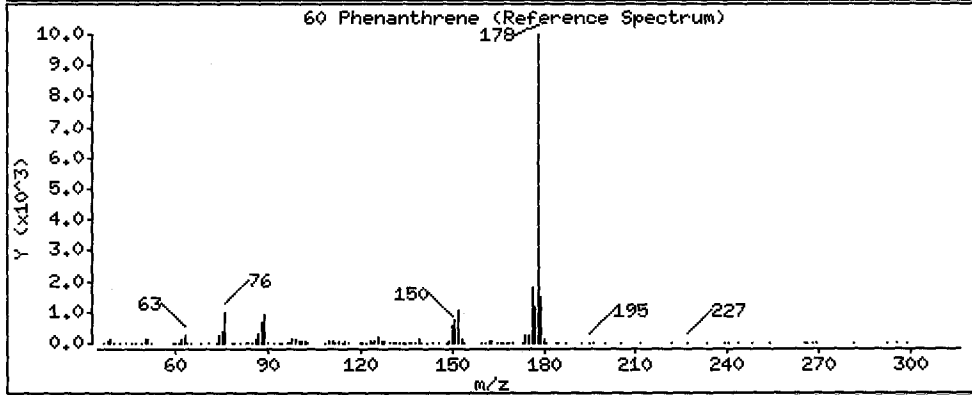
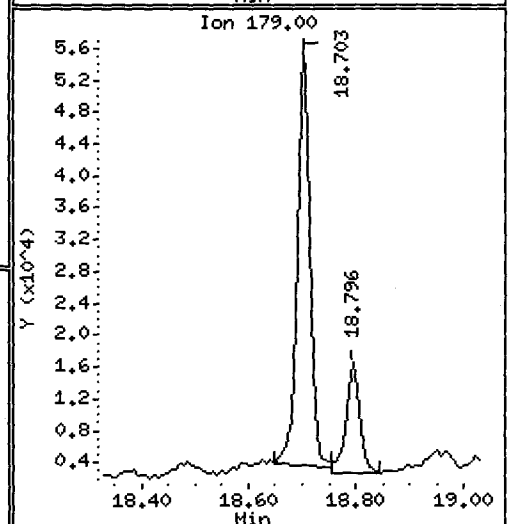
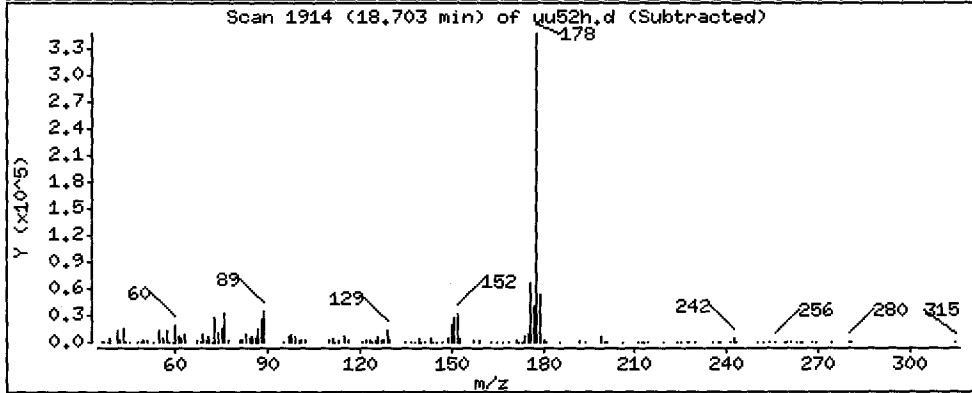
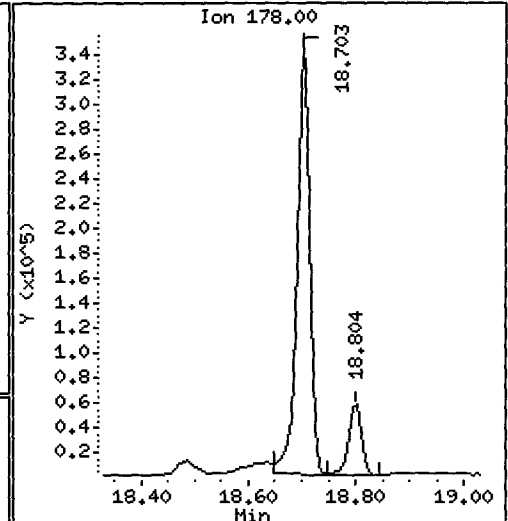
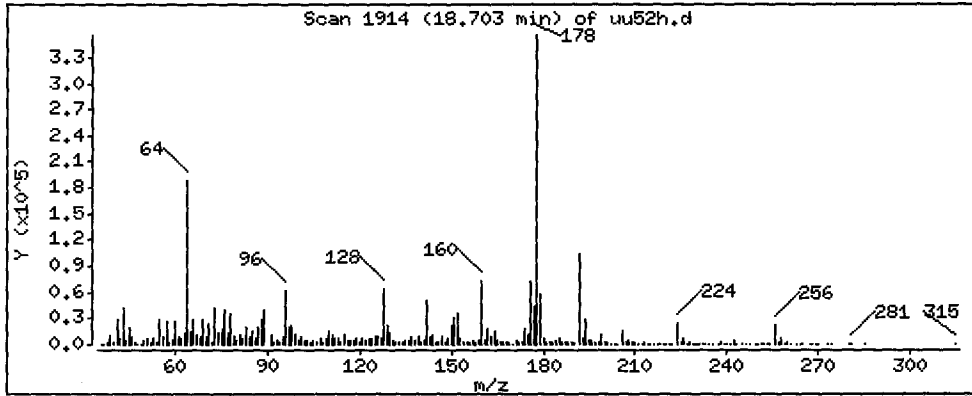
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 1061 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

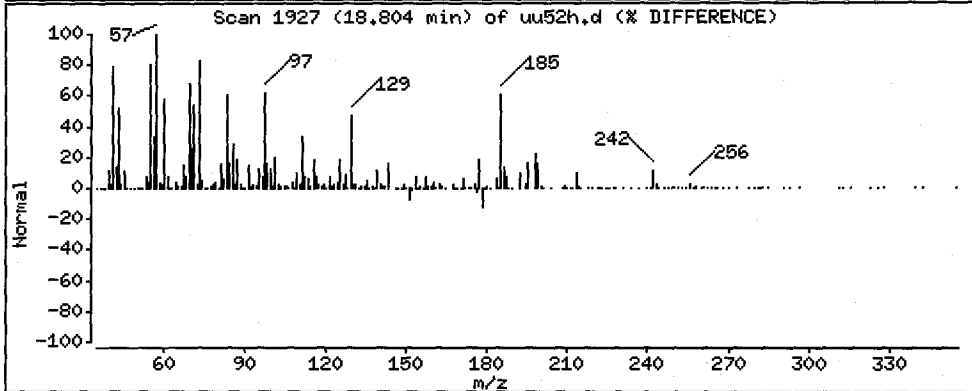
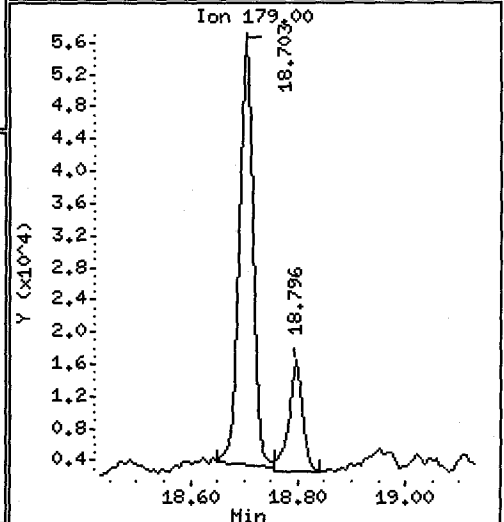
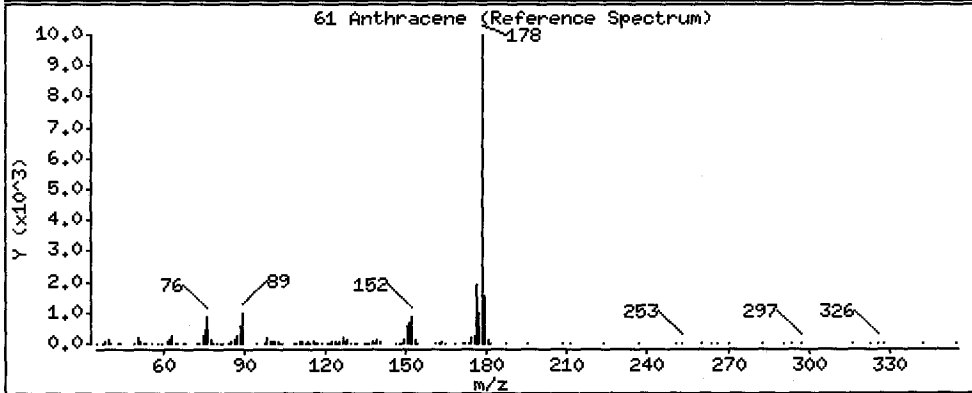
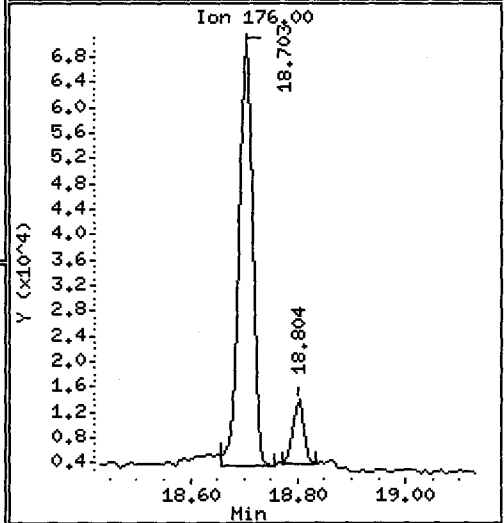
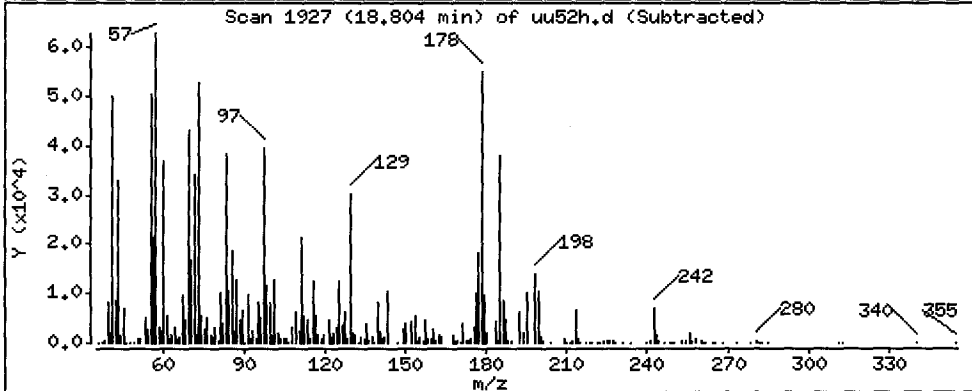
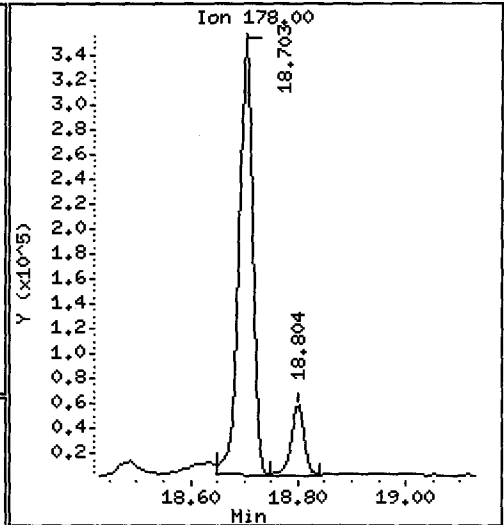
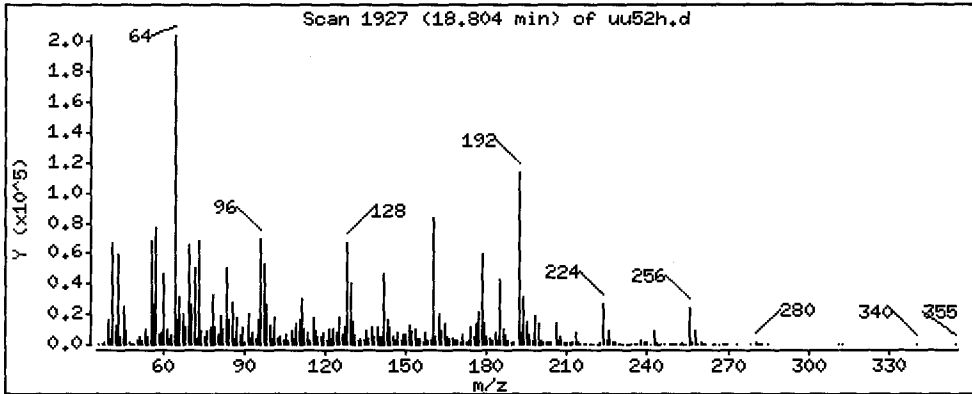
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 169.5 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

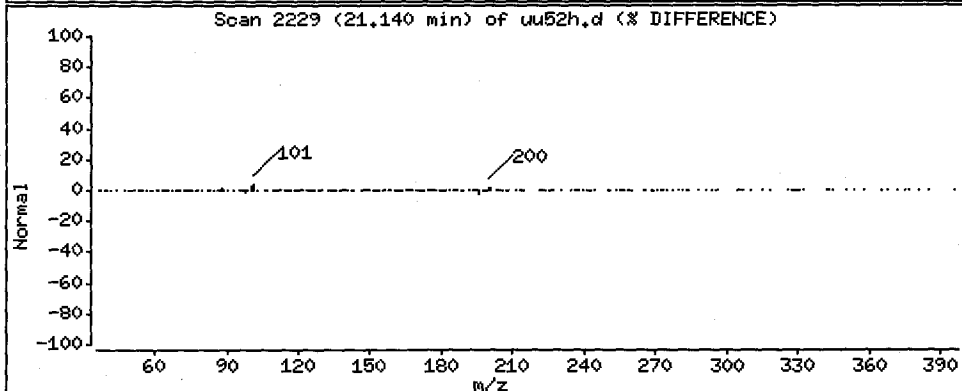
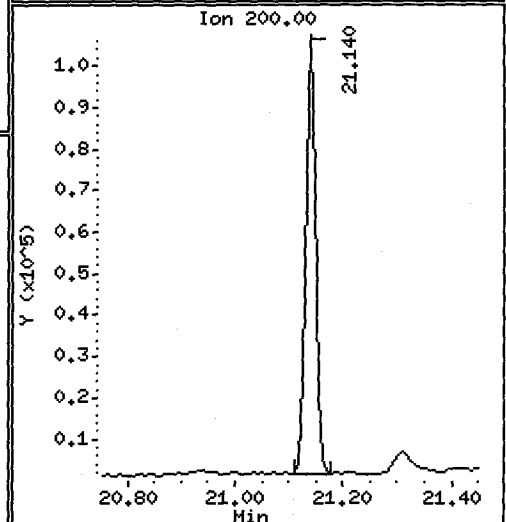
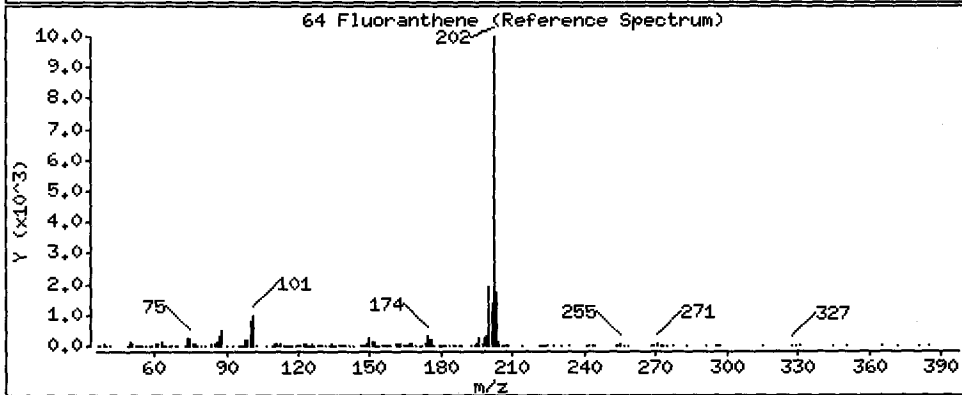
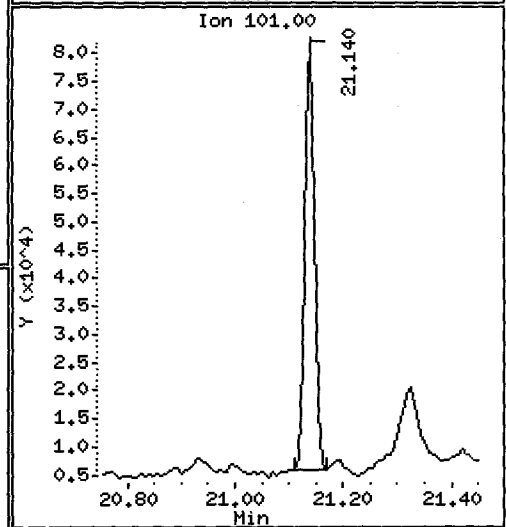
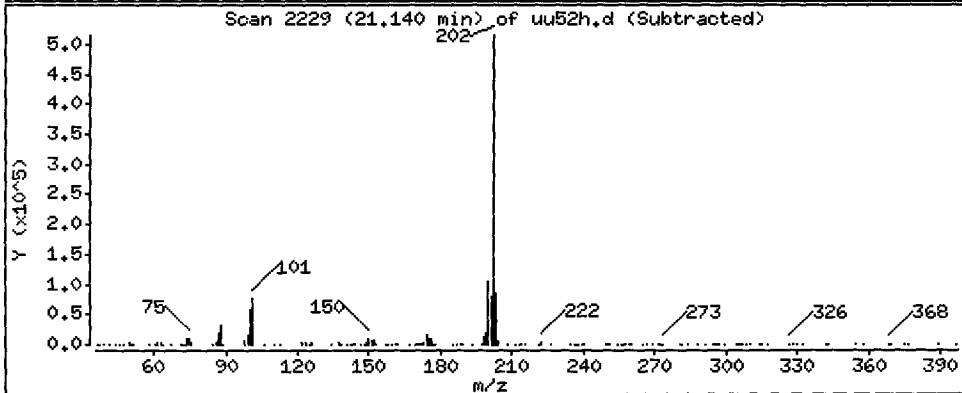
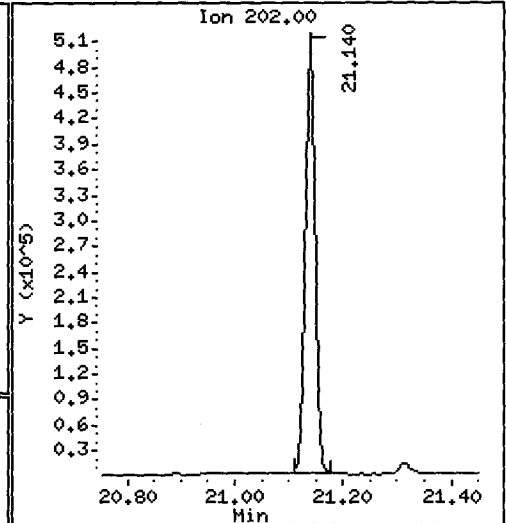
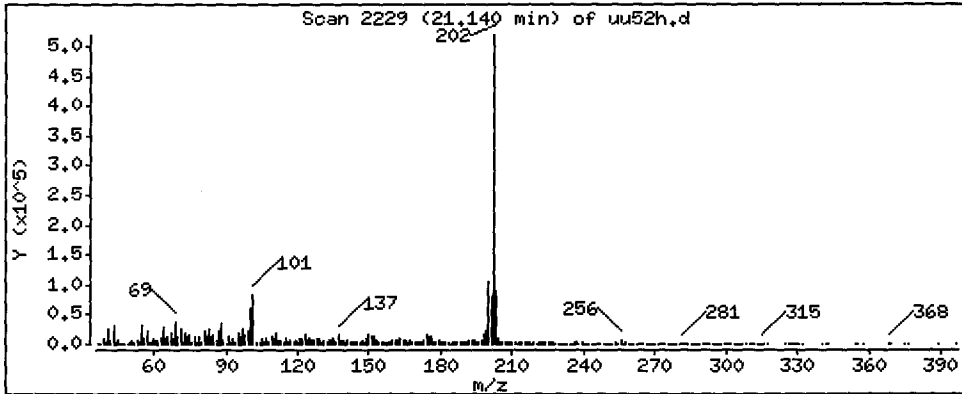
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 1066 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

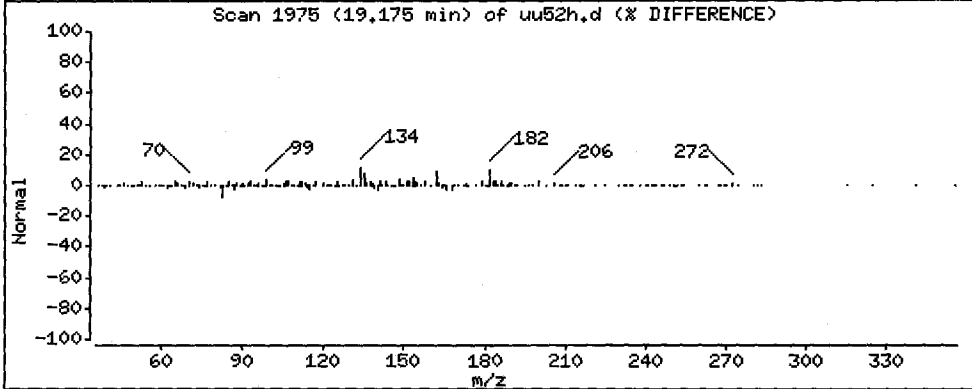
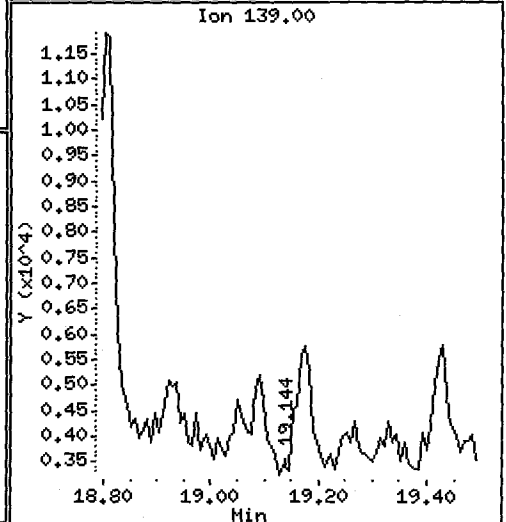
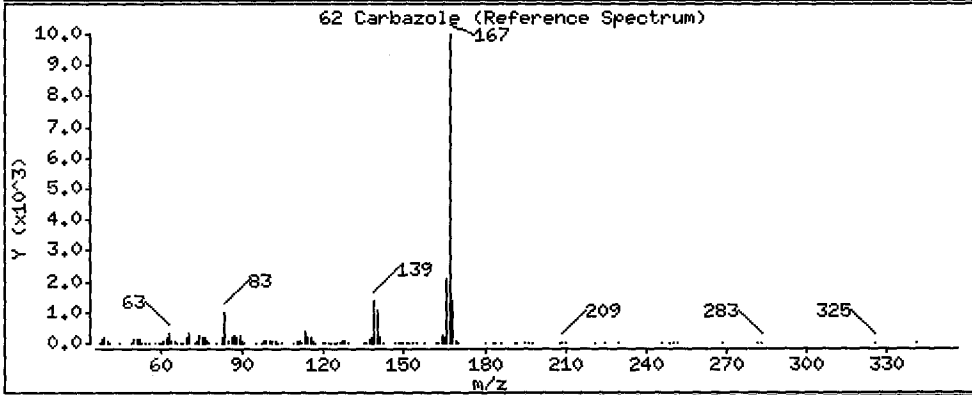
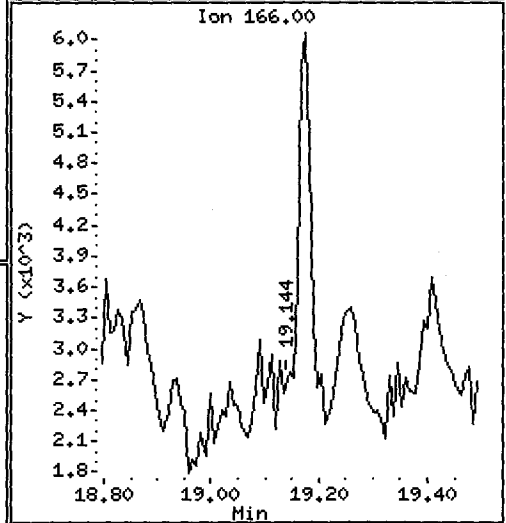
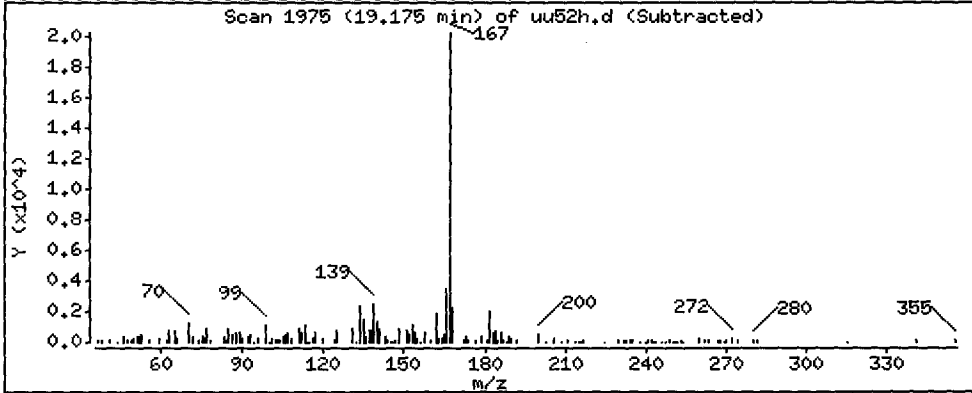
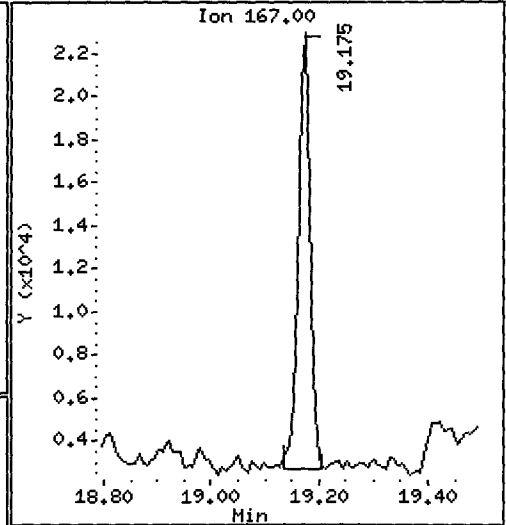
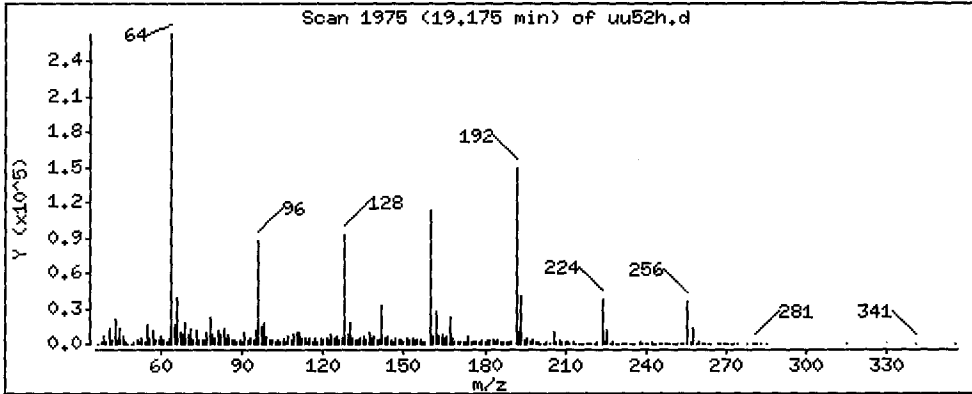
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 60.96 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

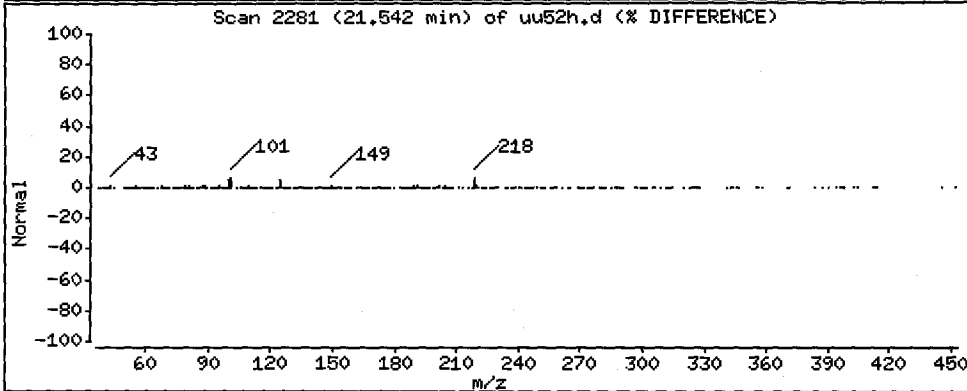
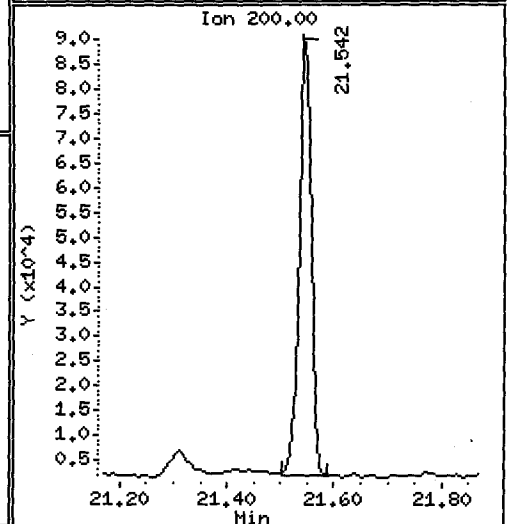
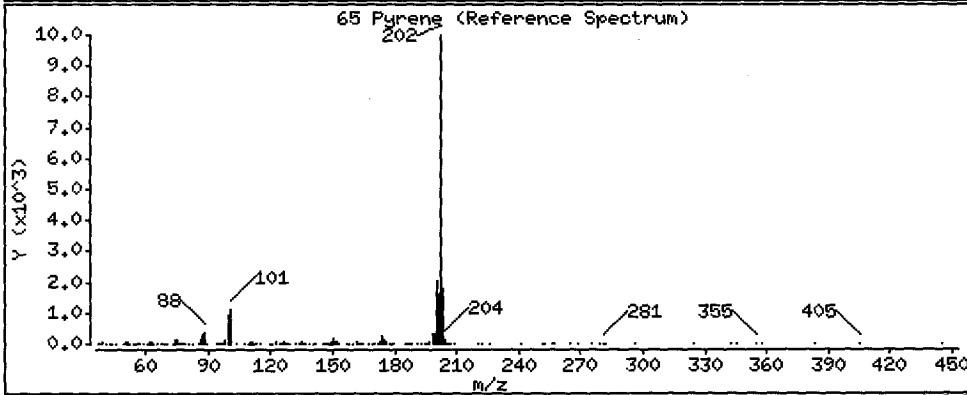
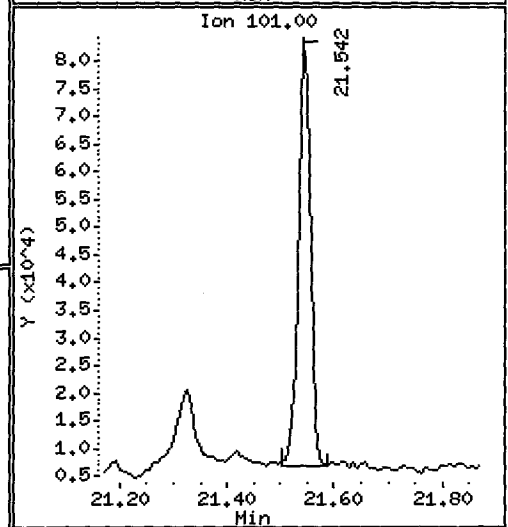
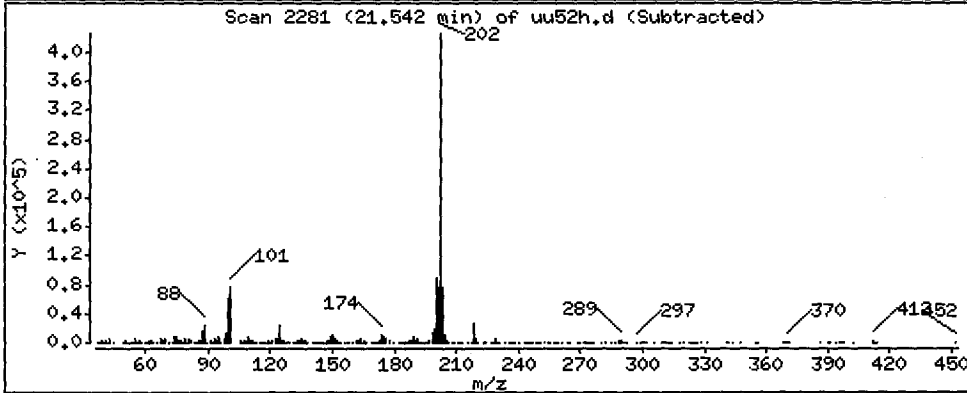
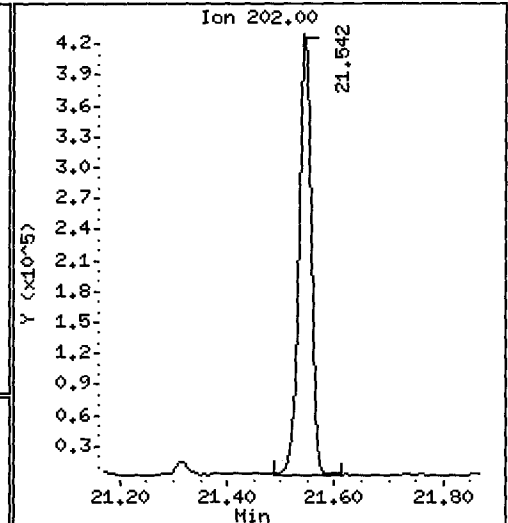
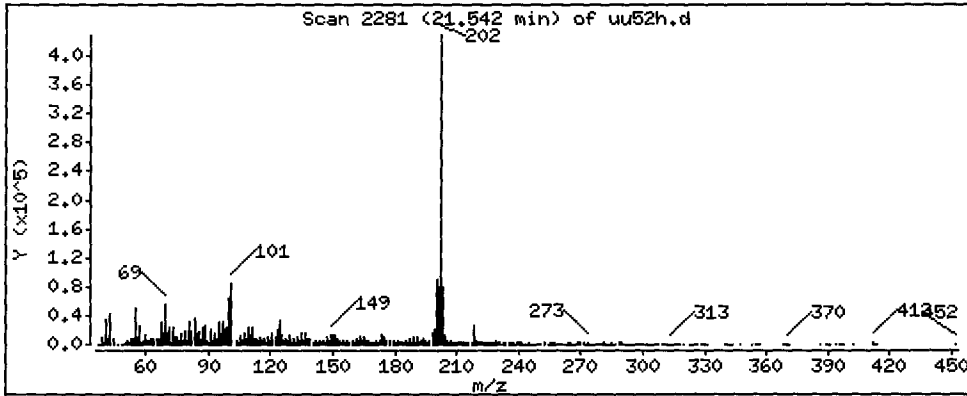
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 961.4 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

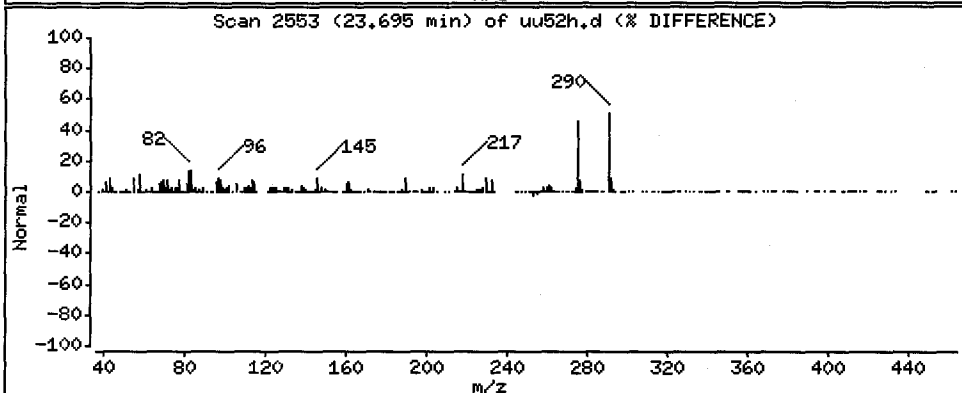
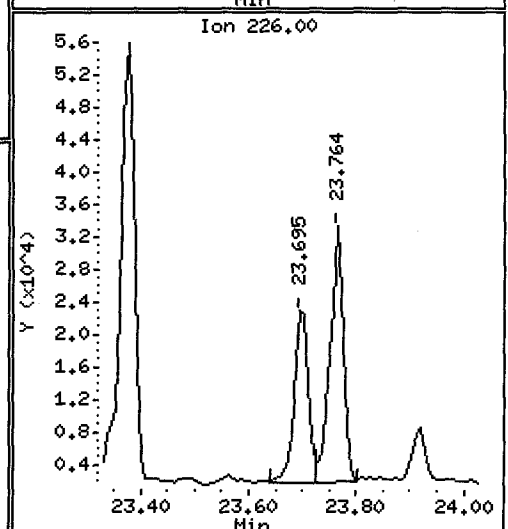
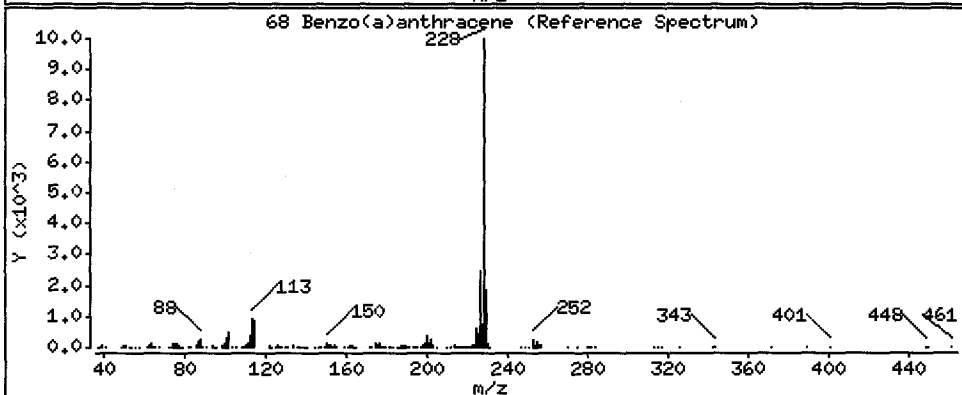
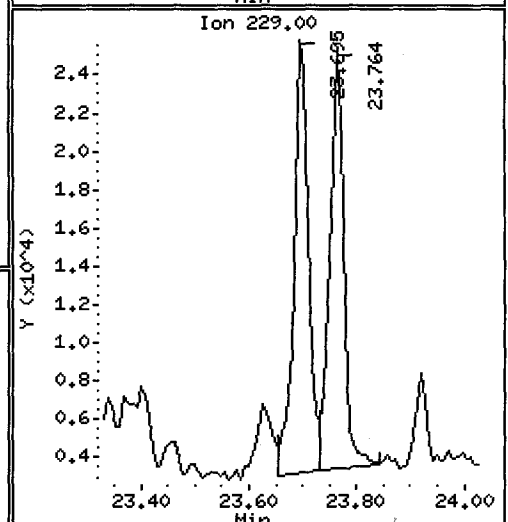
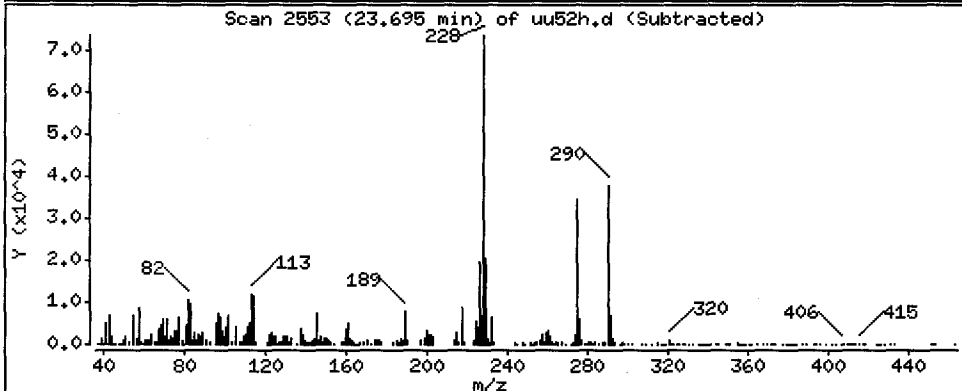
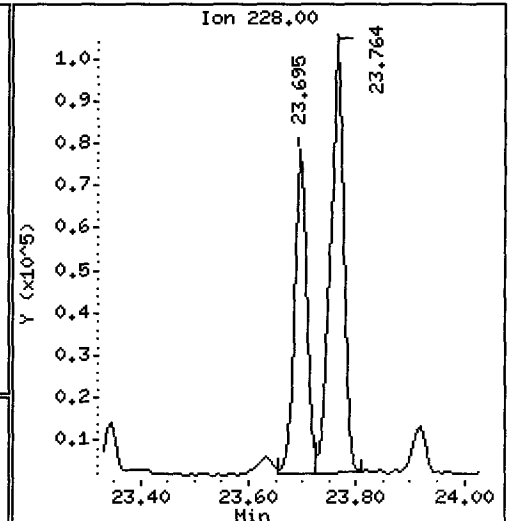
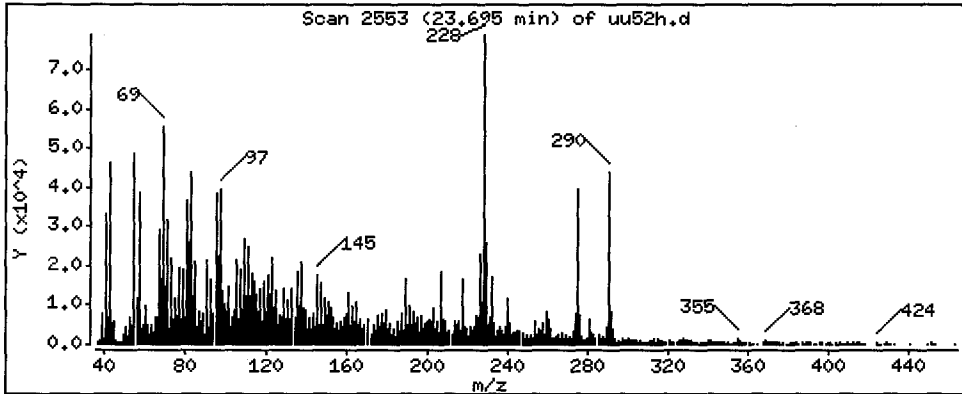
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 185.9 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

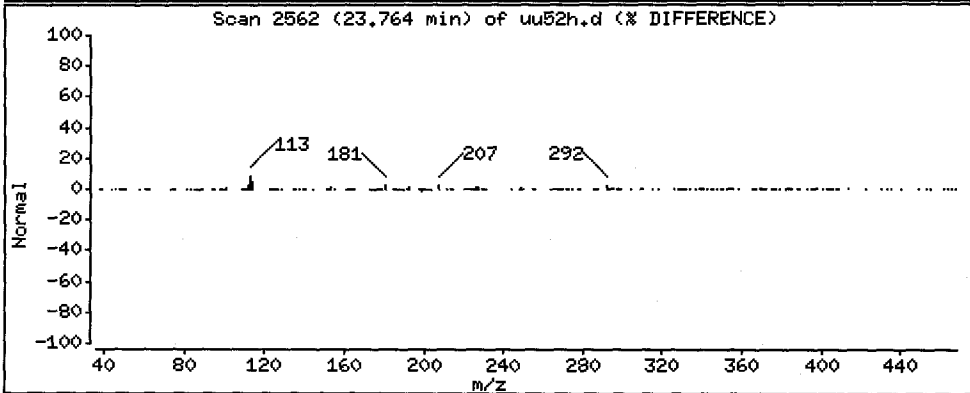
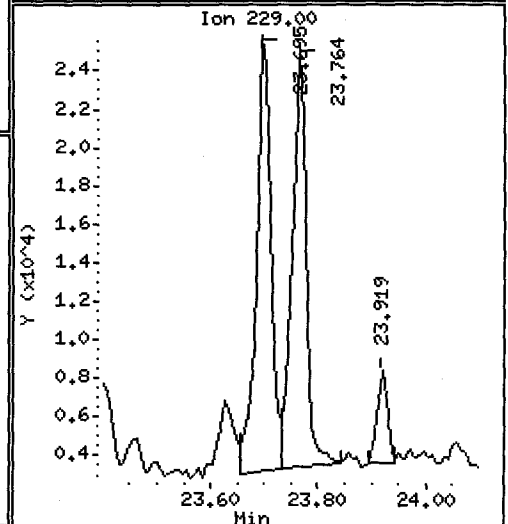
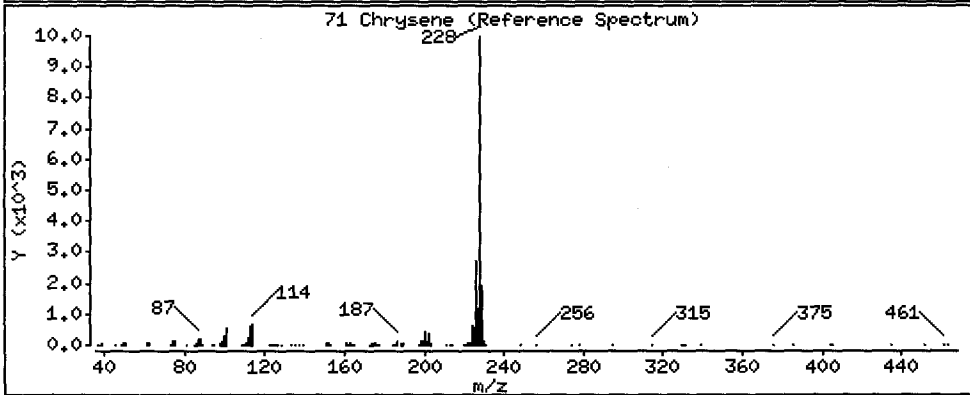
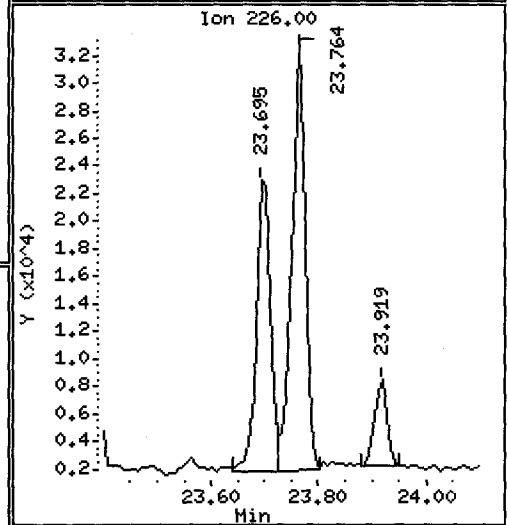
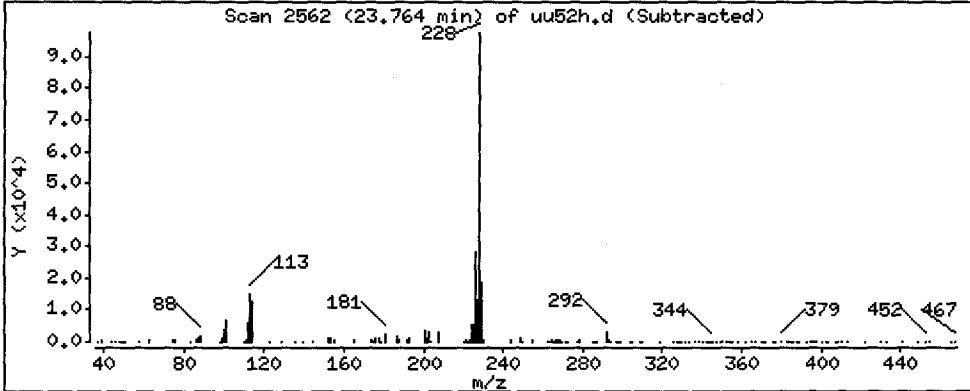
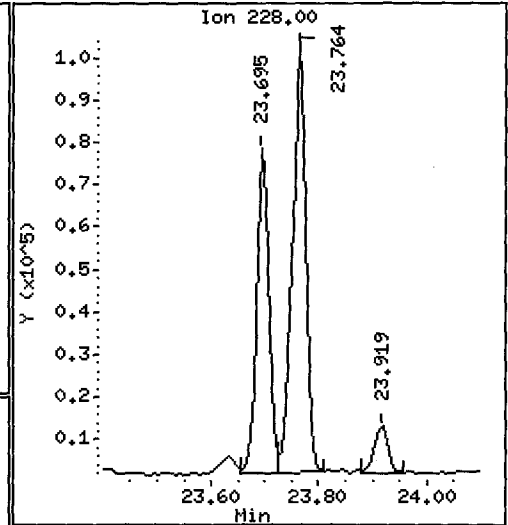
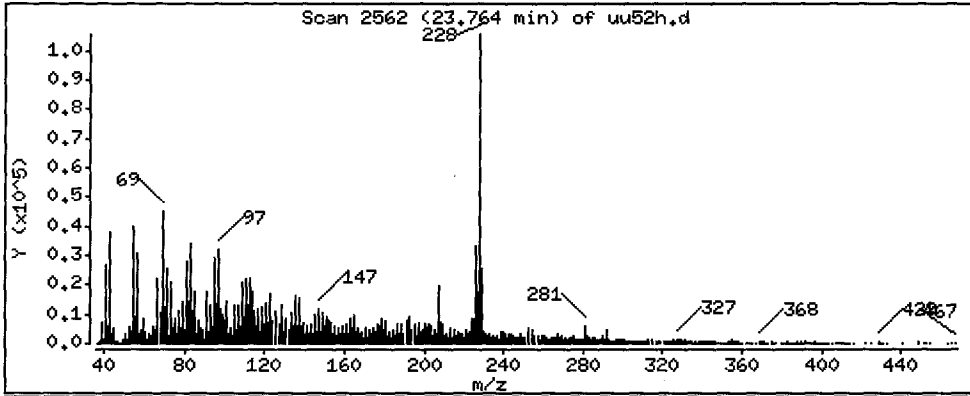
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 286.8 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

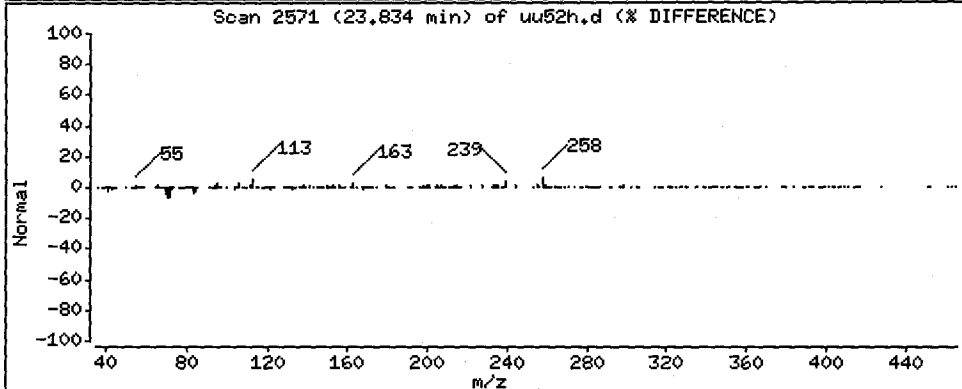
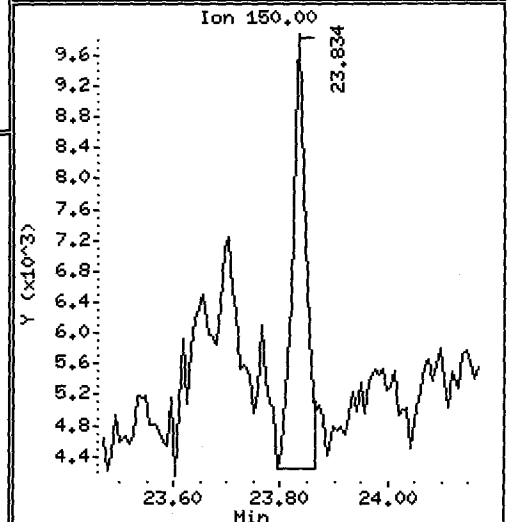
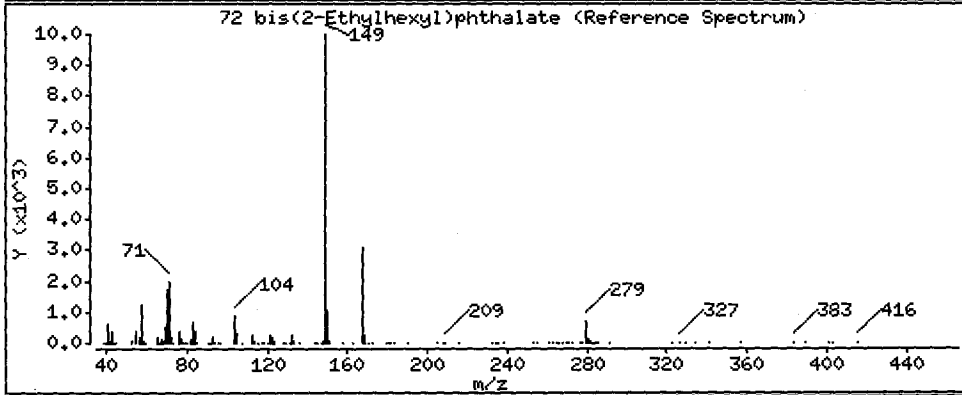
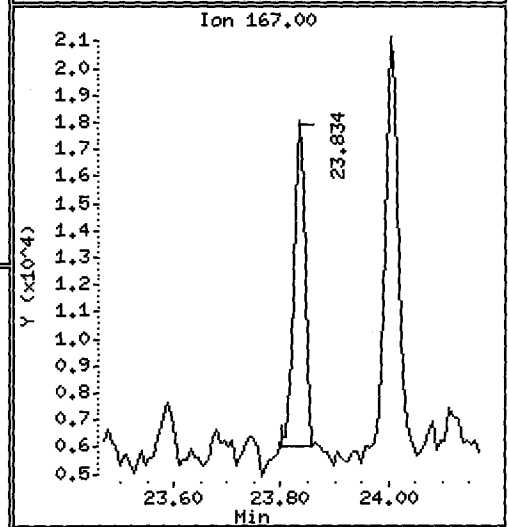
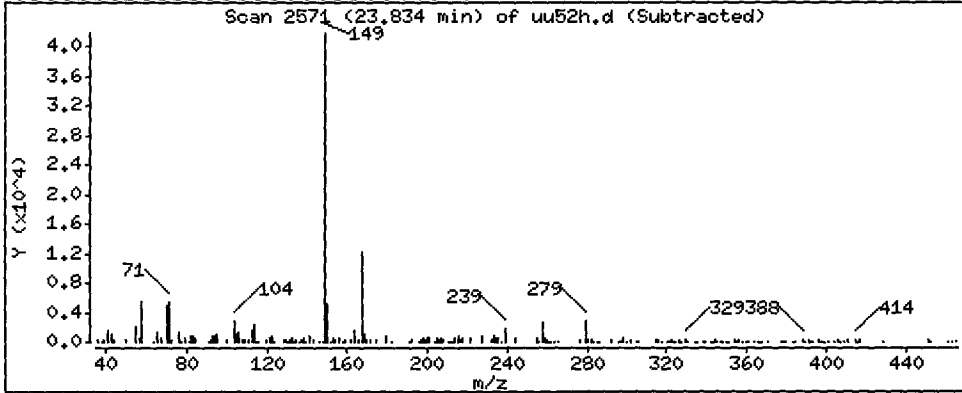
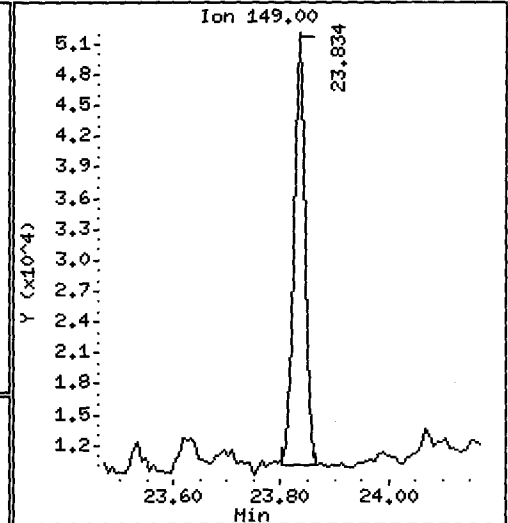
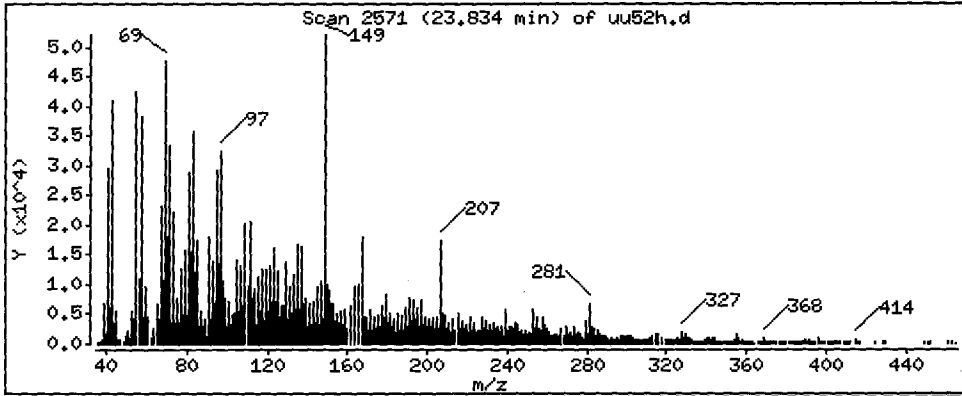
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

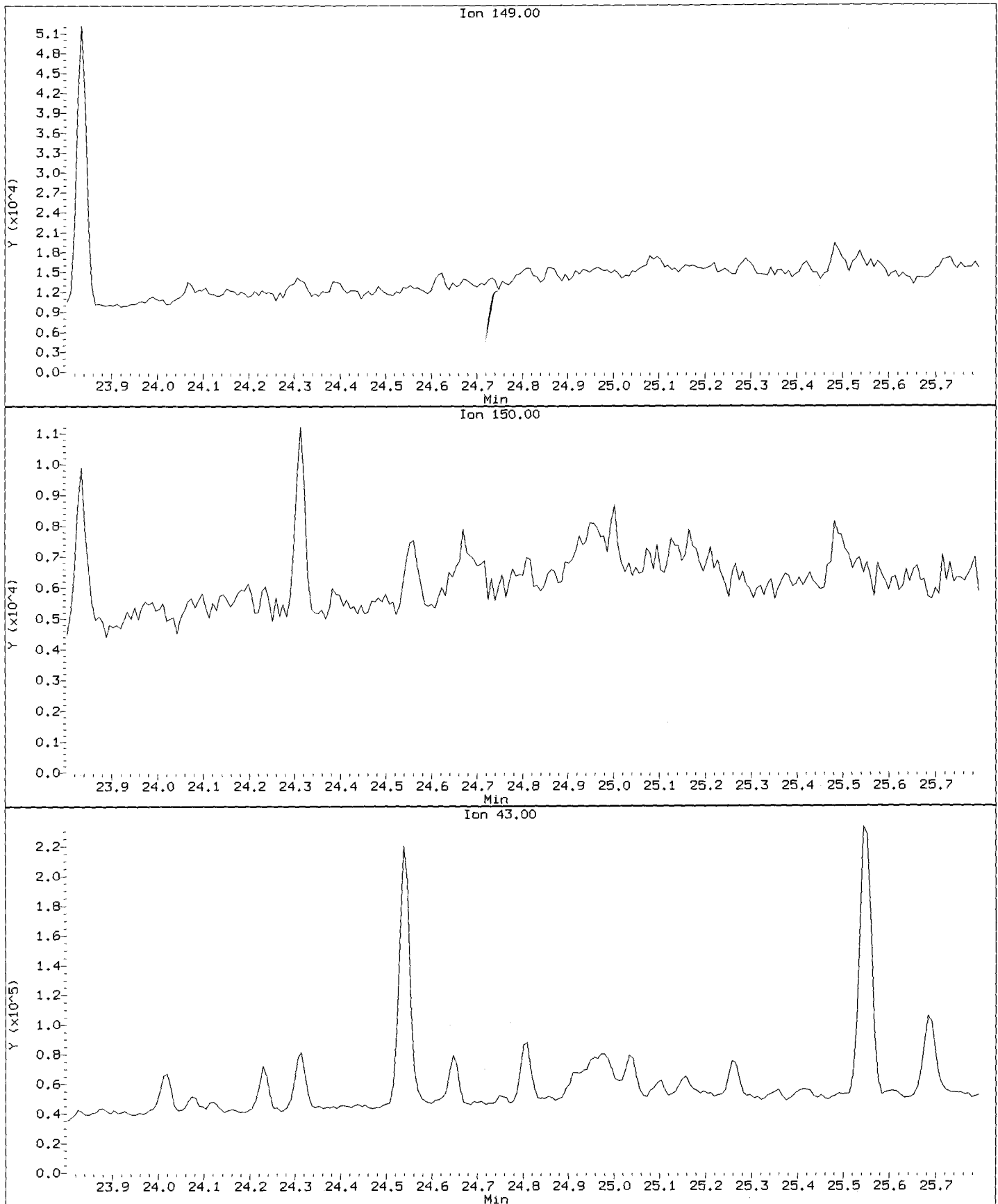
72 bis(2-Ethylhexyl)phthalate

Concentration: 116.8 ug/kg



Data File: /chem1/nt10.i/20120526.b/uu52h.d
Injection Date: 26-MAY-2012 21:31
Instrument: nt10.i
Client Sample ID: MS007-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

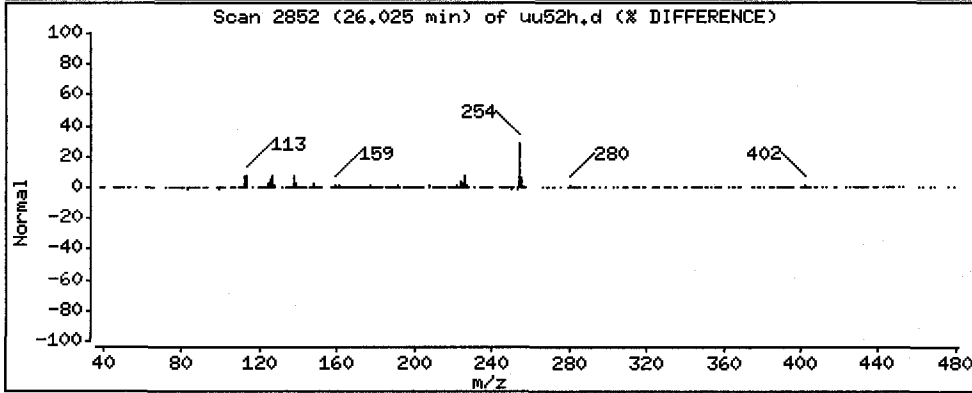
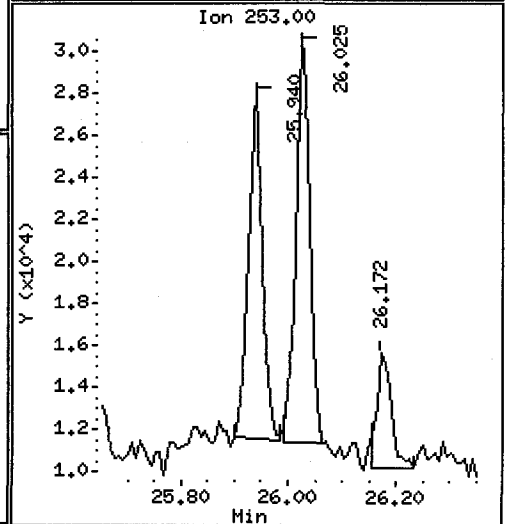
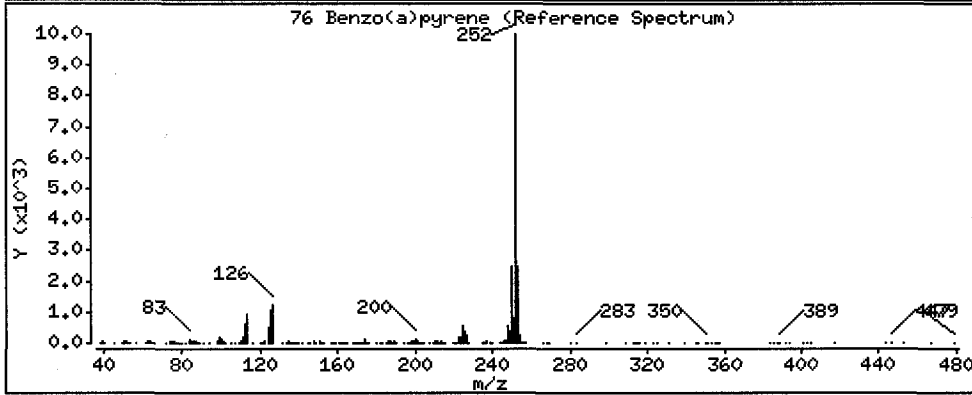
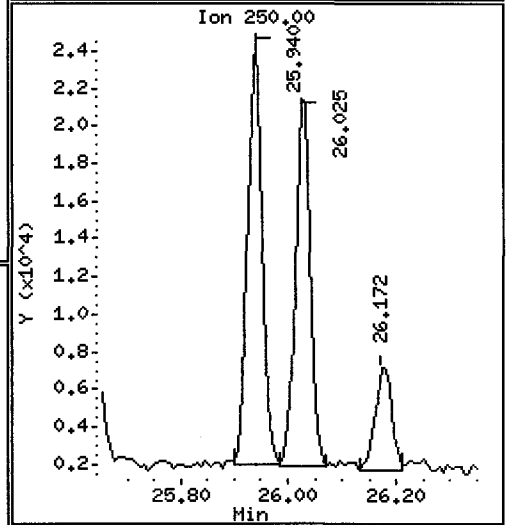
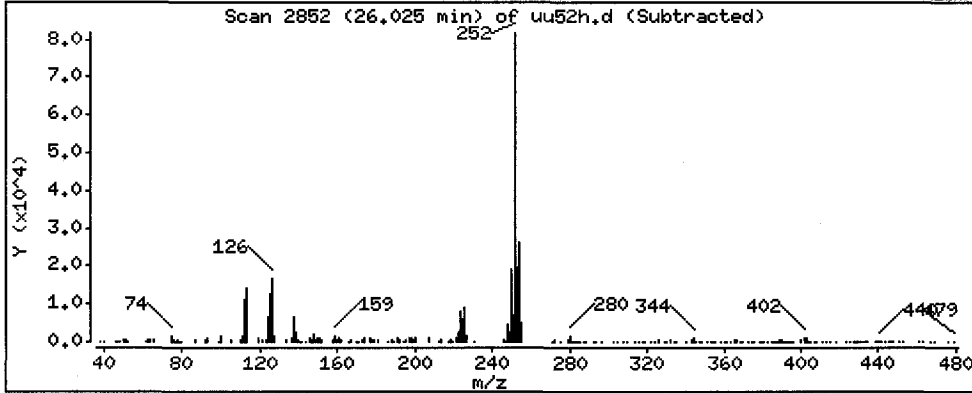
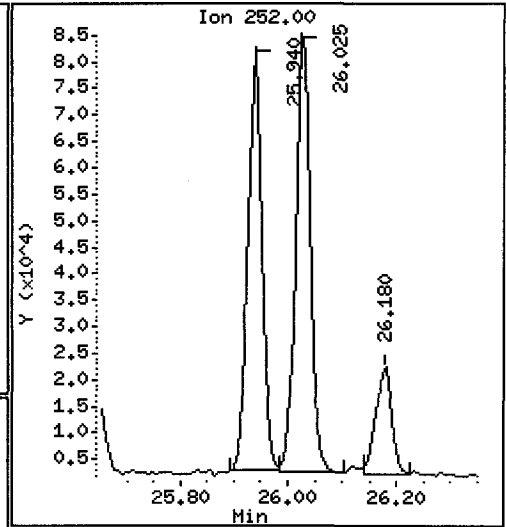
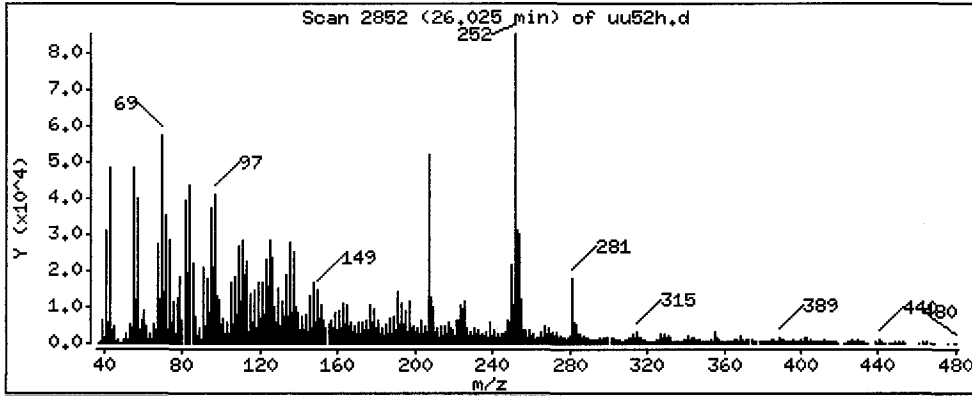
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 271.2 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

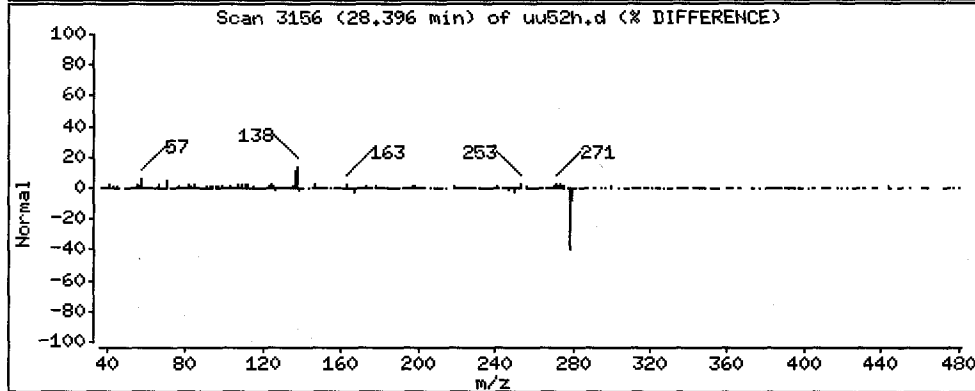
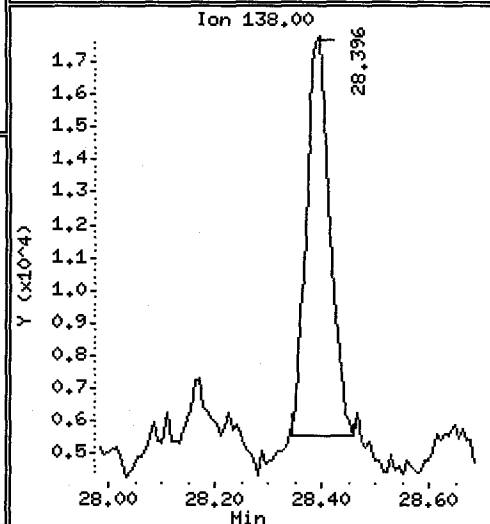
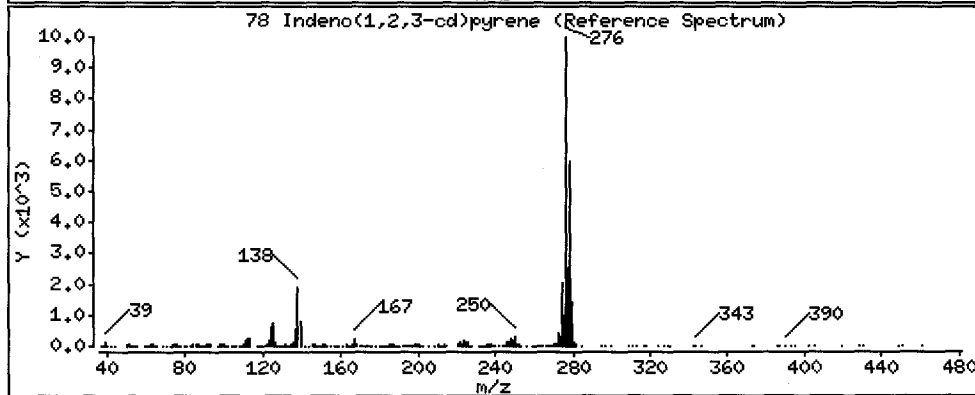
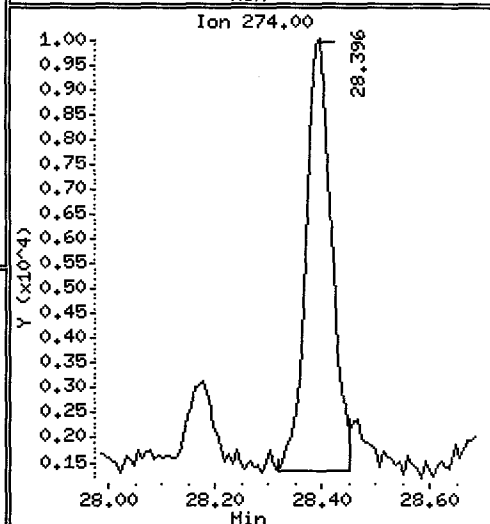
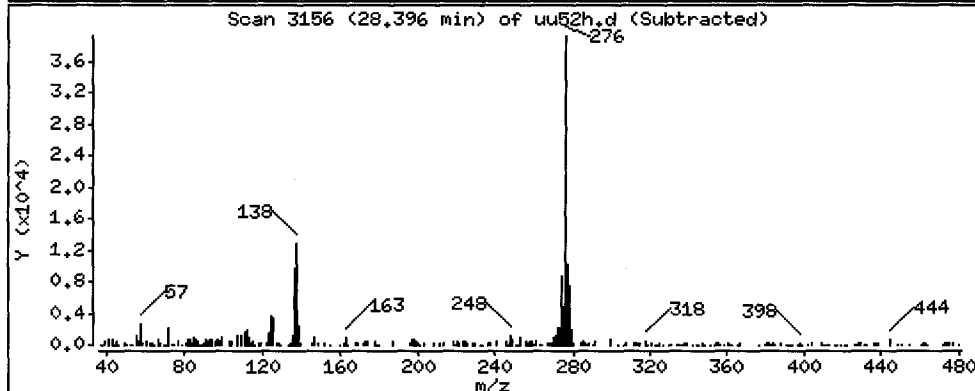
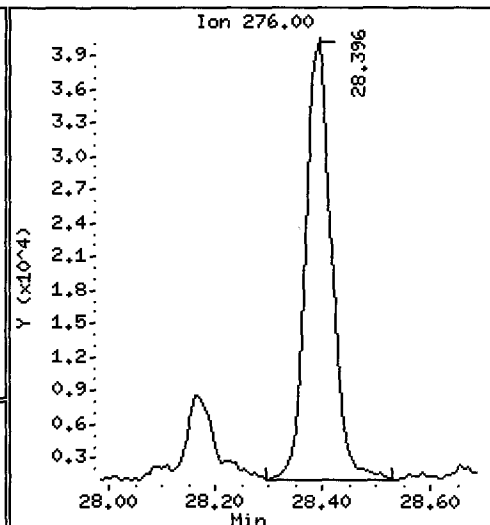
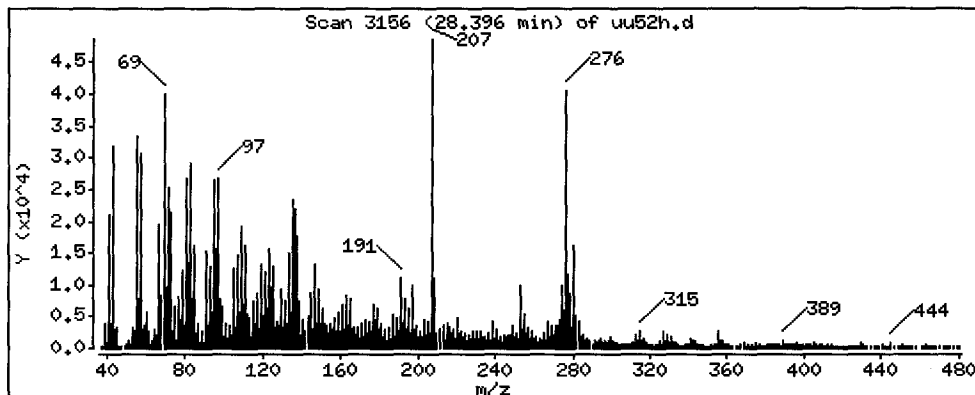
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 195.4 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

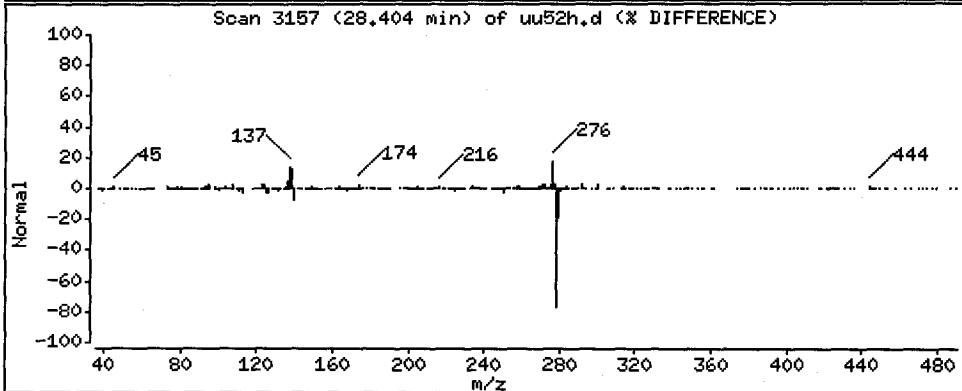
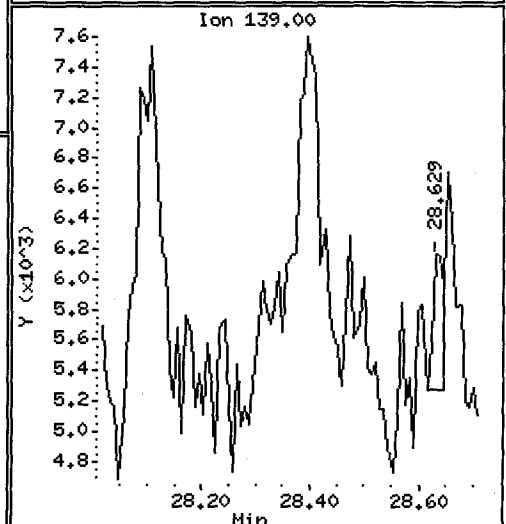
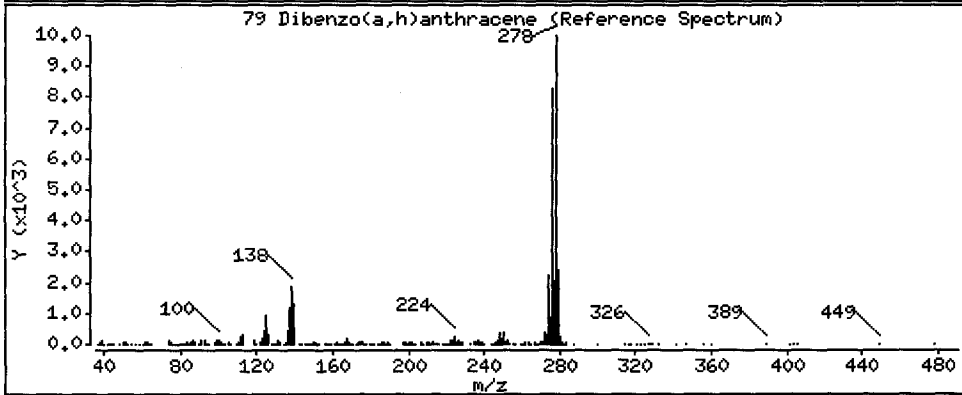
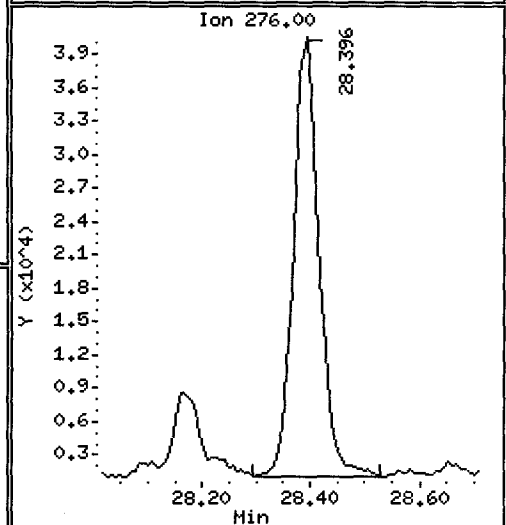
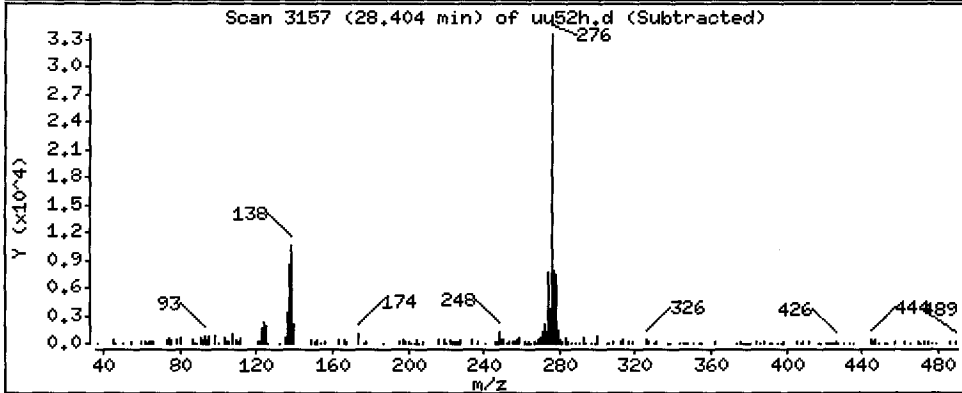
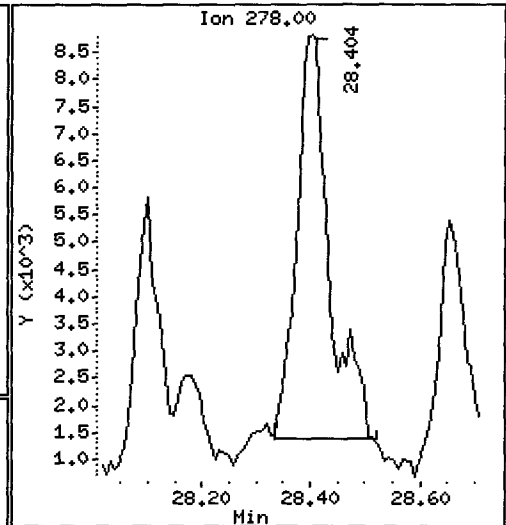
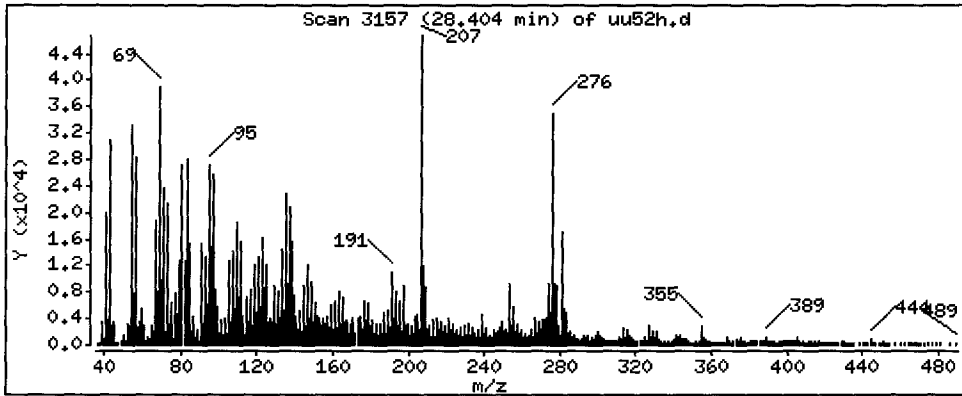
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 58.64 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

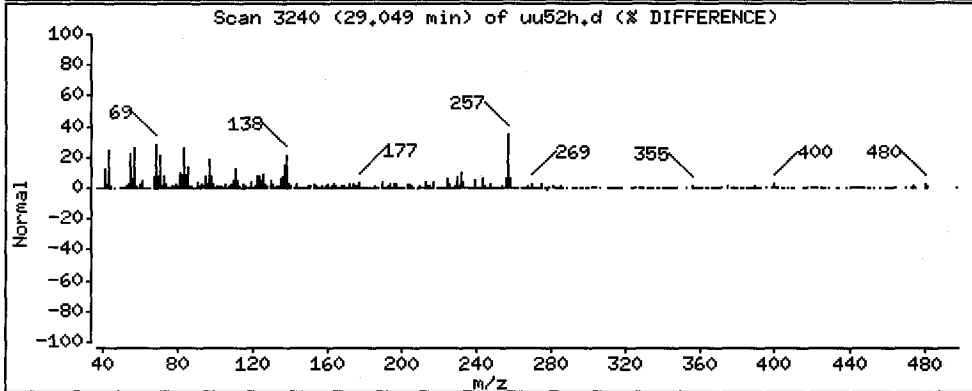
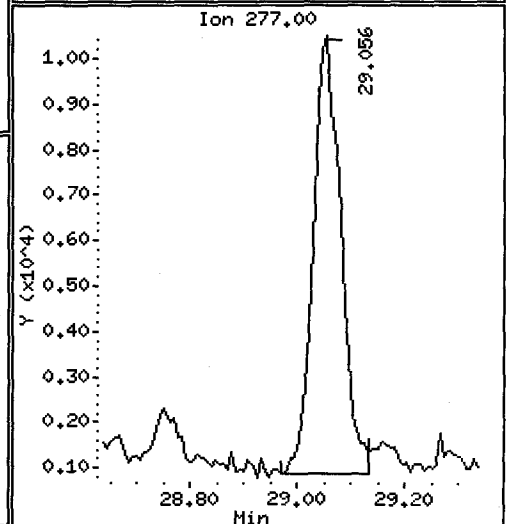
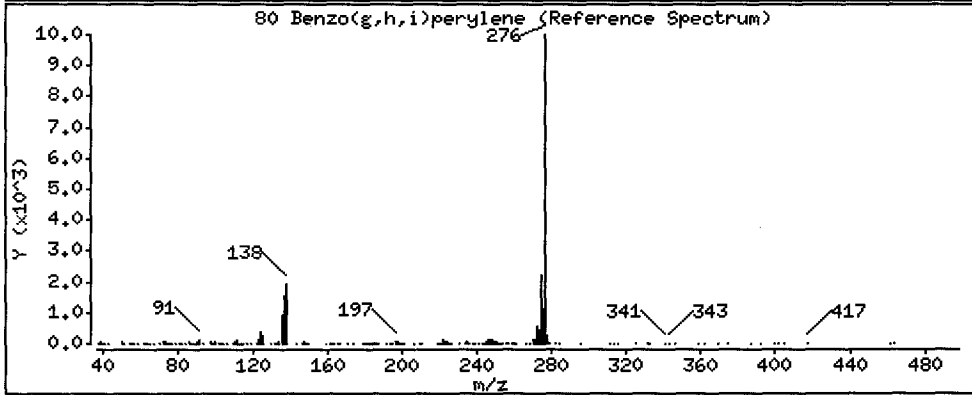
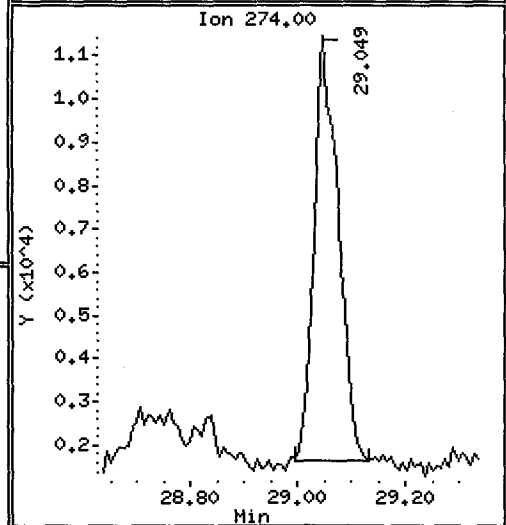
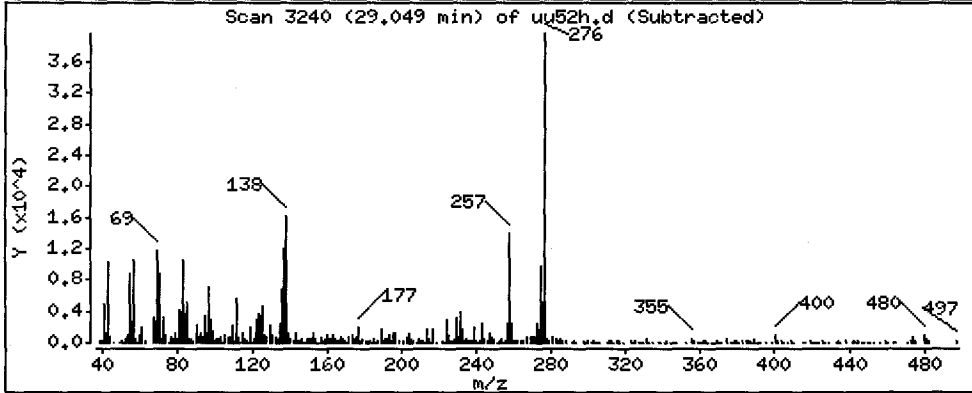
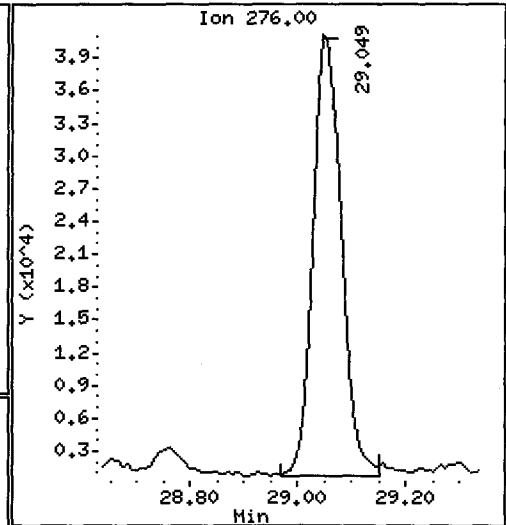
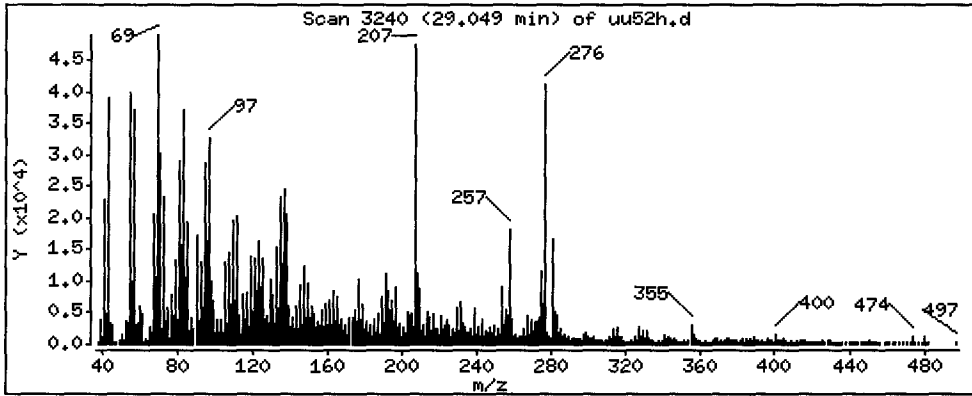
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 248.9 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

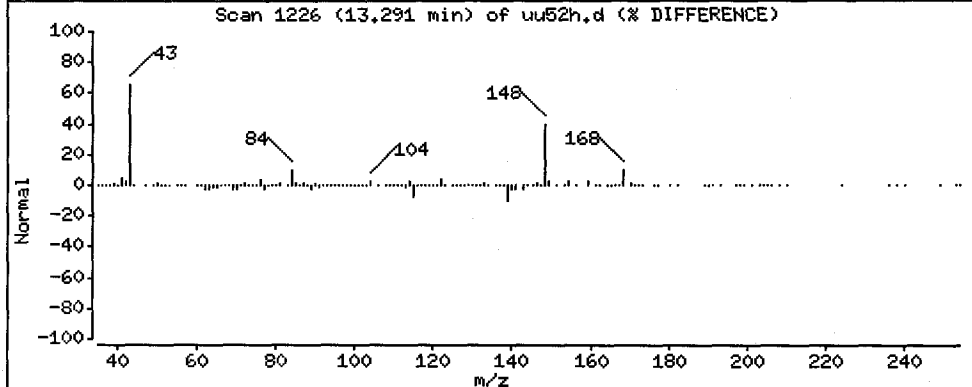
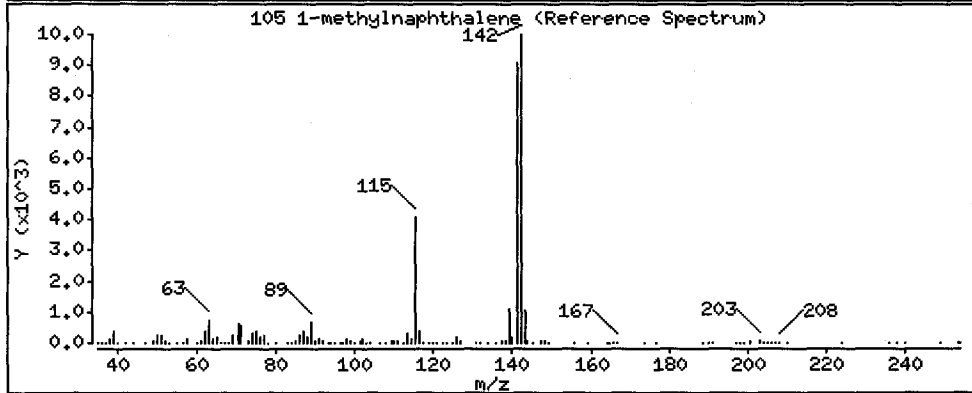
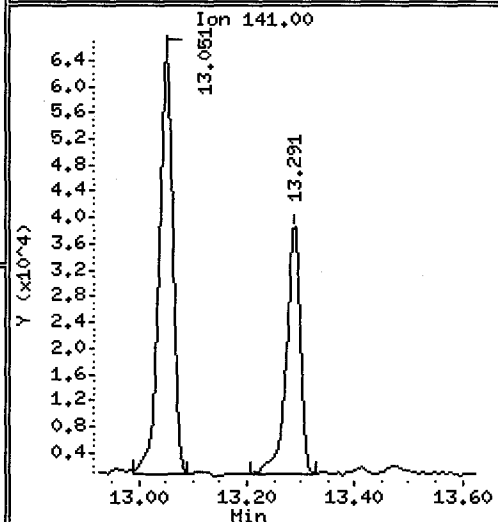
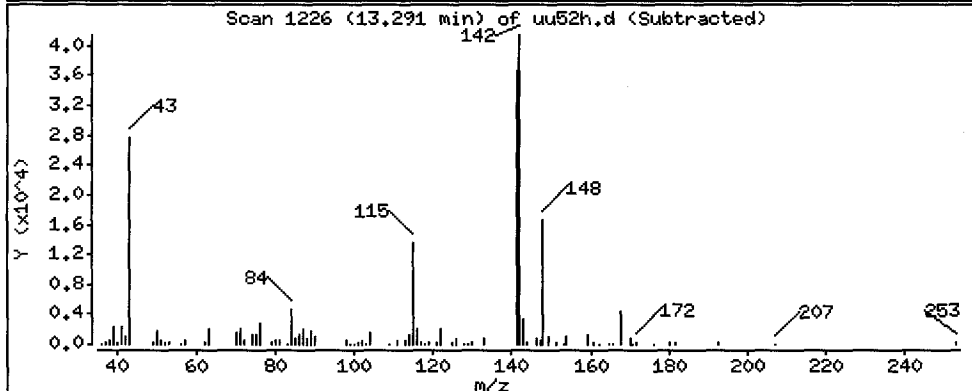
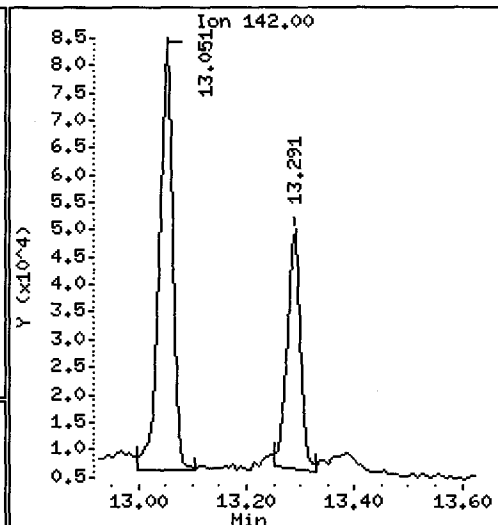
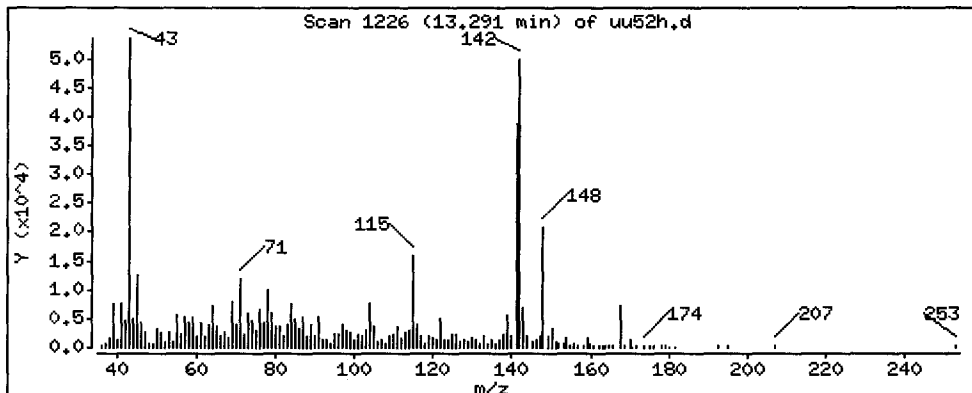
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 163.8 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

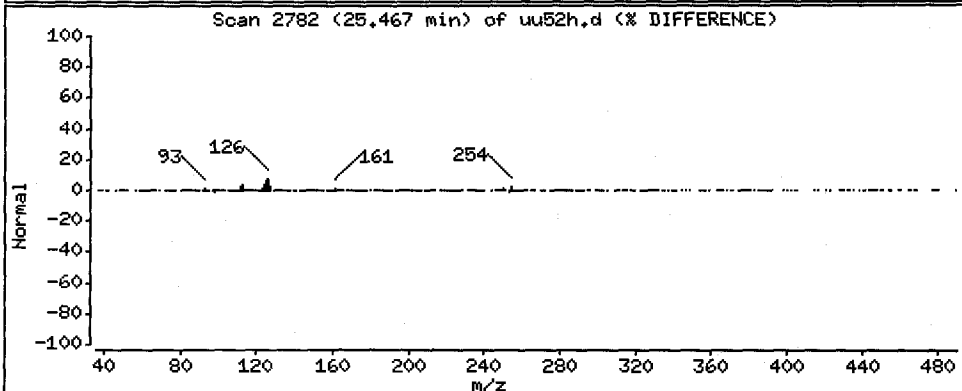
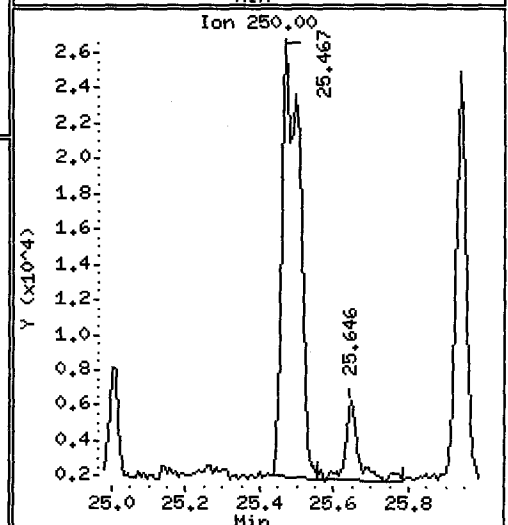
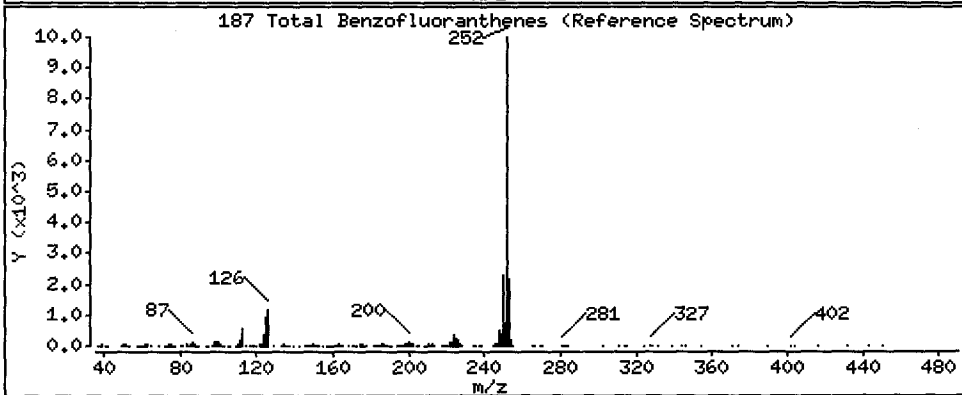
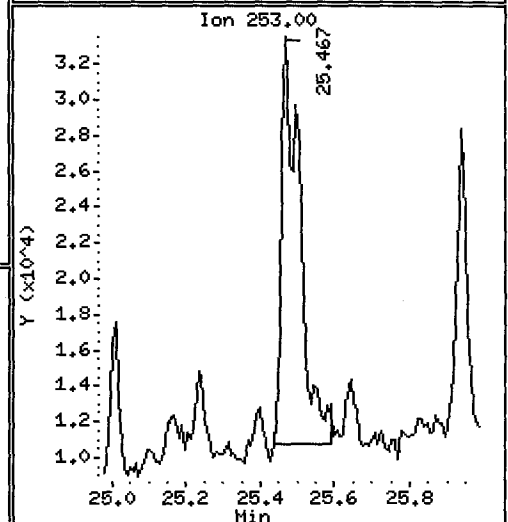
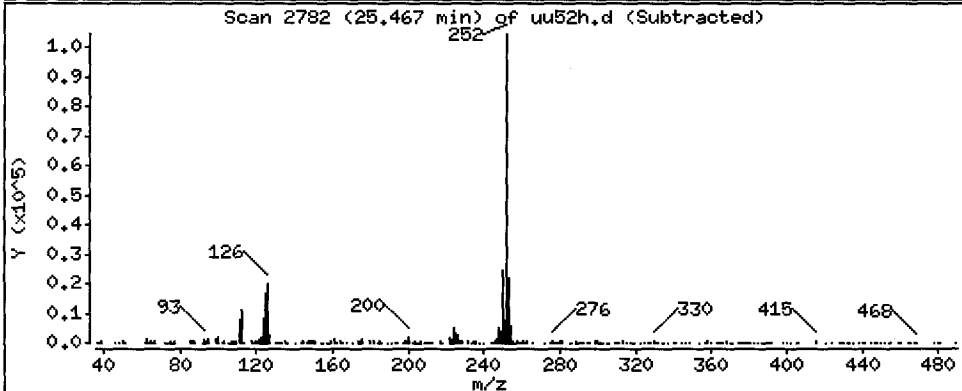
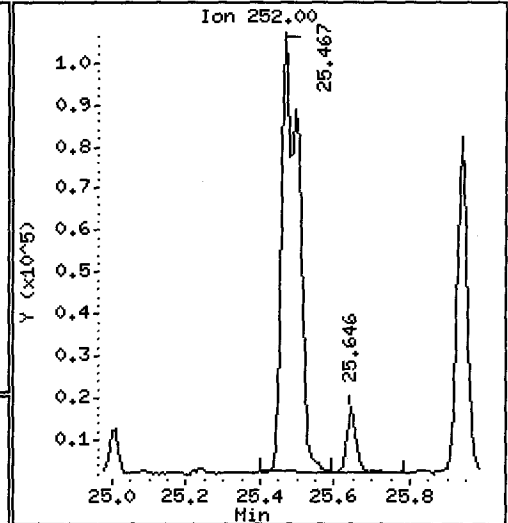
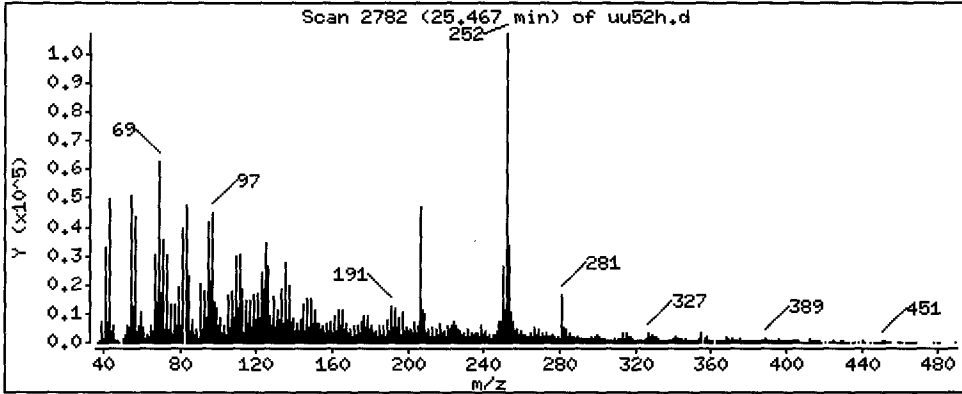
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 539.4 ug/kg



Date : 26-MAY-2012 21:31

Client ID: MS007-SS-120515

Instrument: nt10.i

Sample Info: UU52H,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

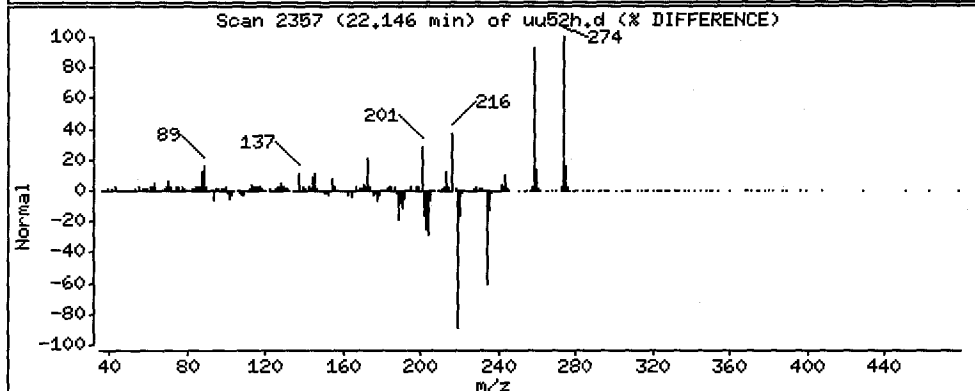
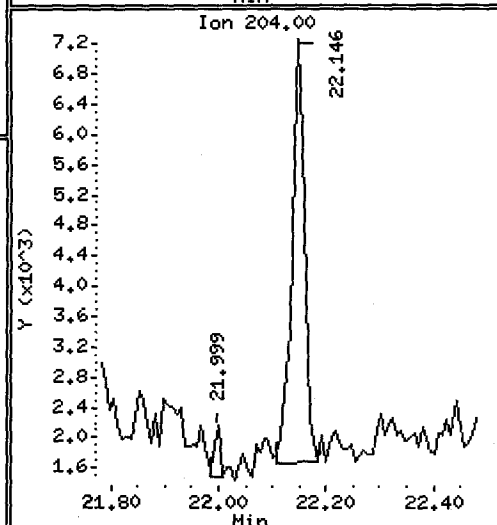
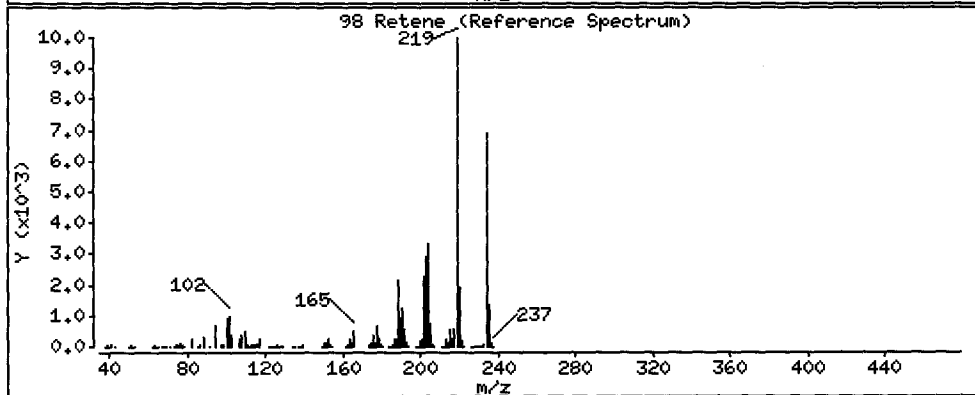
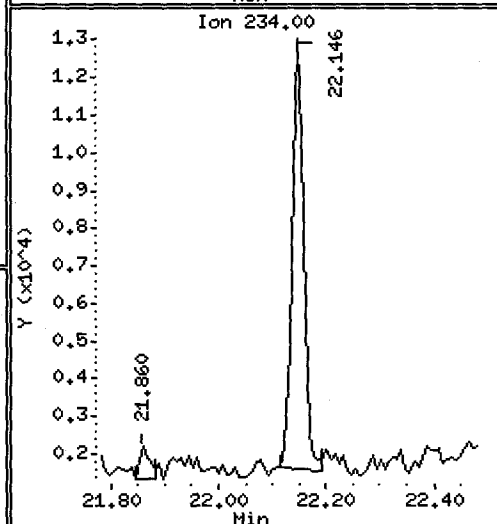
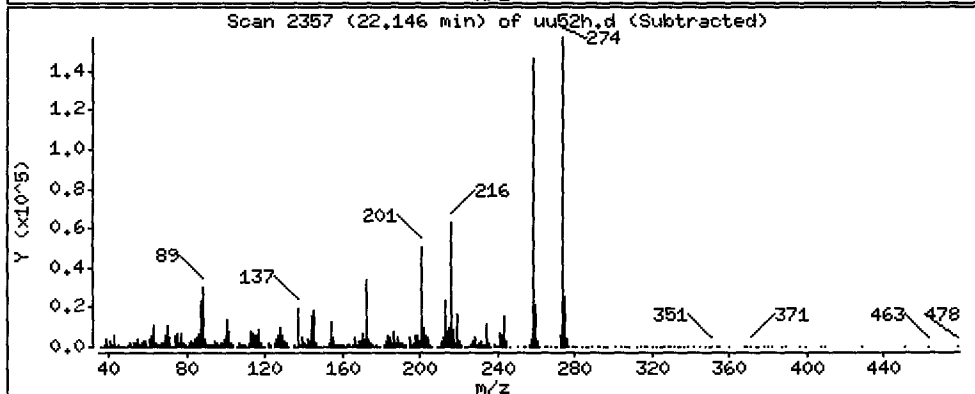
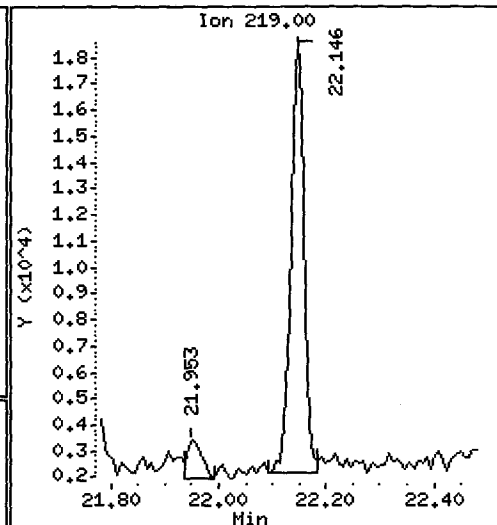
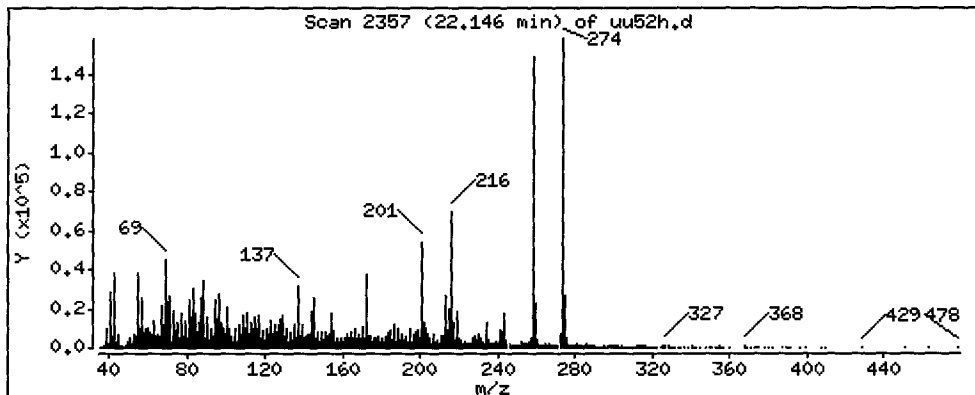
Column phase: ZB-5msi

Column diameter: 0.25

98 Retene

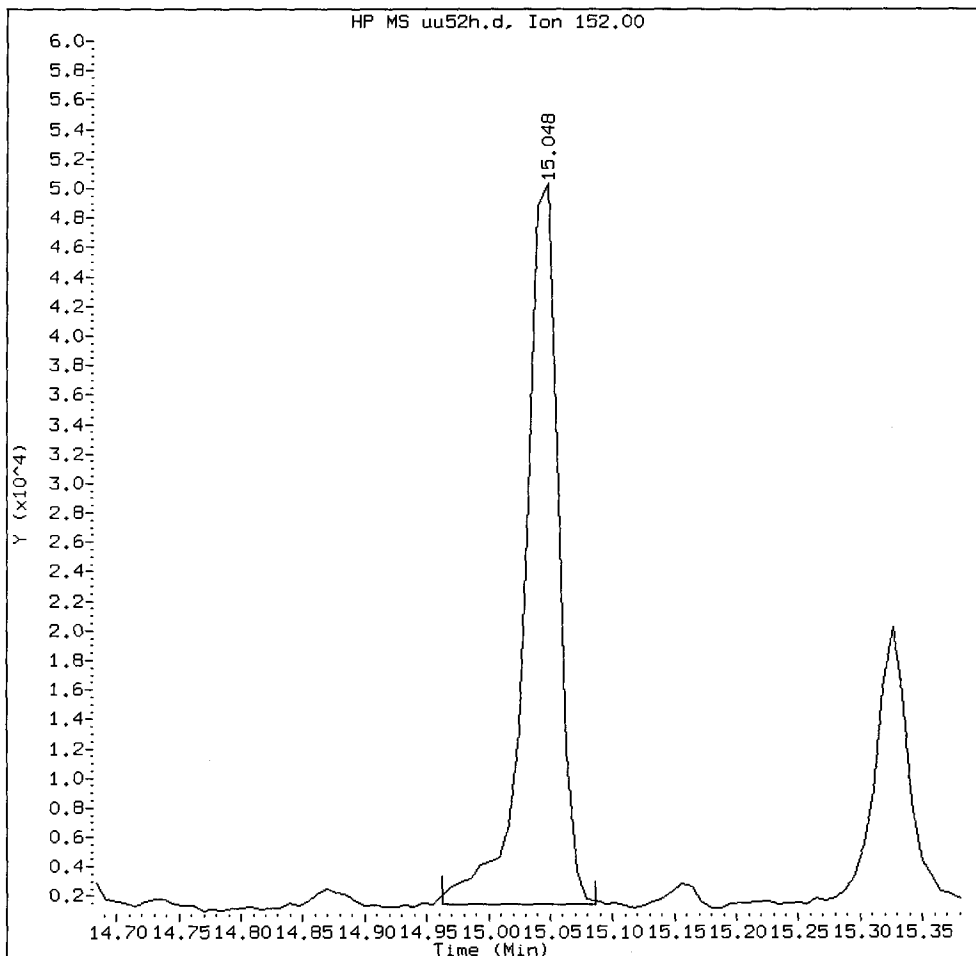
Concentration: 84.51 ug/kg

OK



UU52H, /chem1/nt10.i/20120526.b/uu52h.d

Acenaphthylene Amount: 0.48 Area: 95237



MANUAL INTEGRATION for Acenaphthylene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

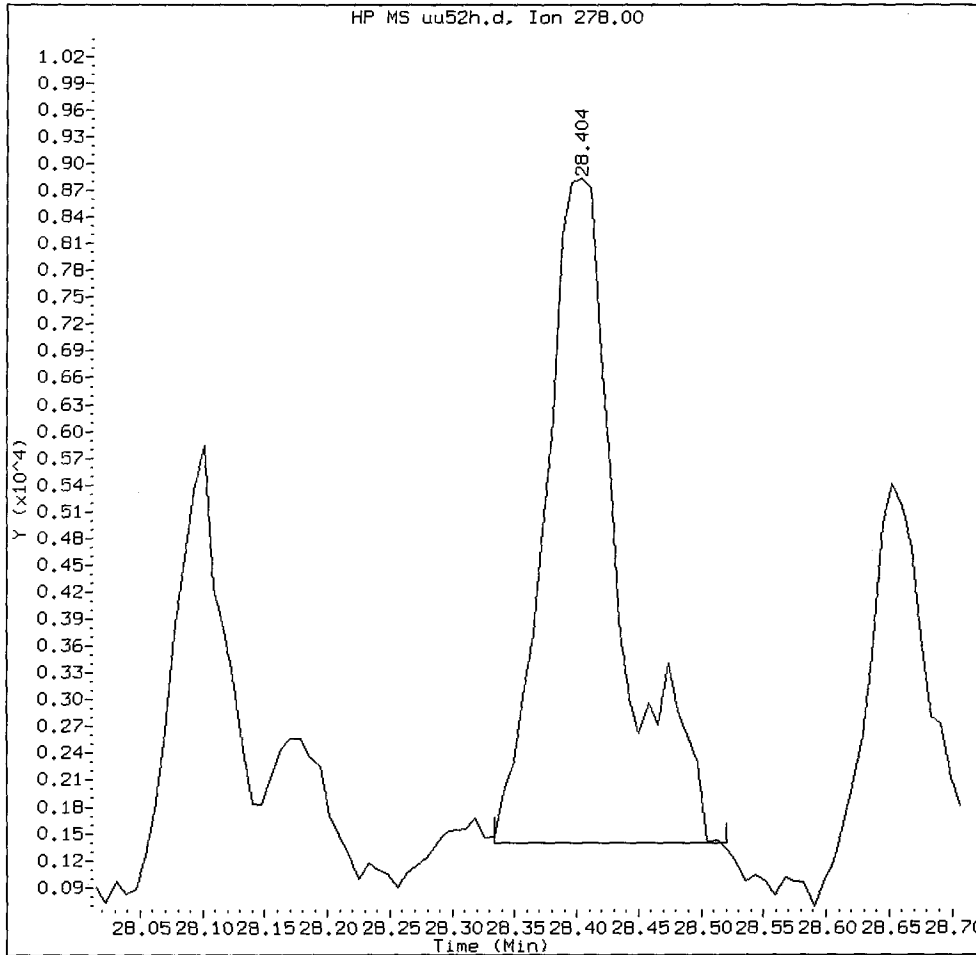
5. Other _____

Analyst: VZ

Date: 5/30/19

UU52H, /chem1/nt10.i/20120526.b/uu52h.d

Dibenzo(a,h)anthracene Amount: 0.20 Area: 31302



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

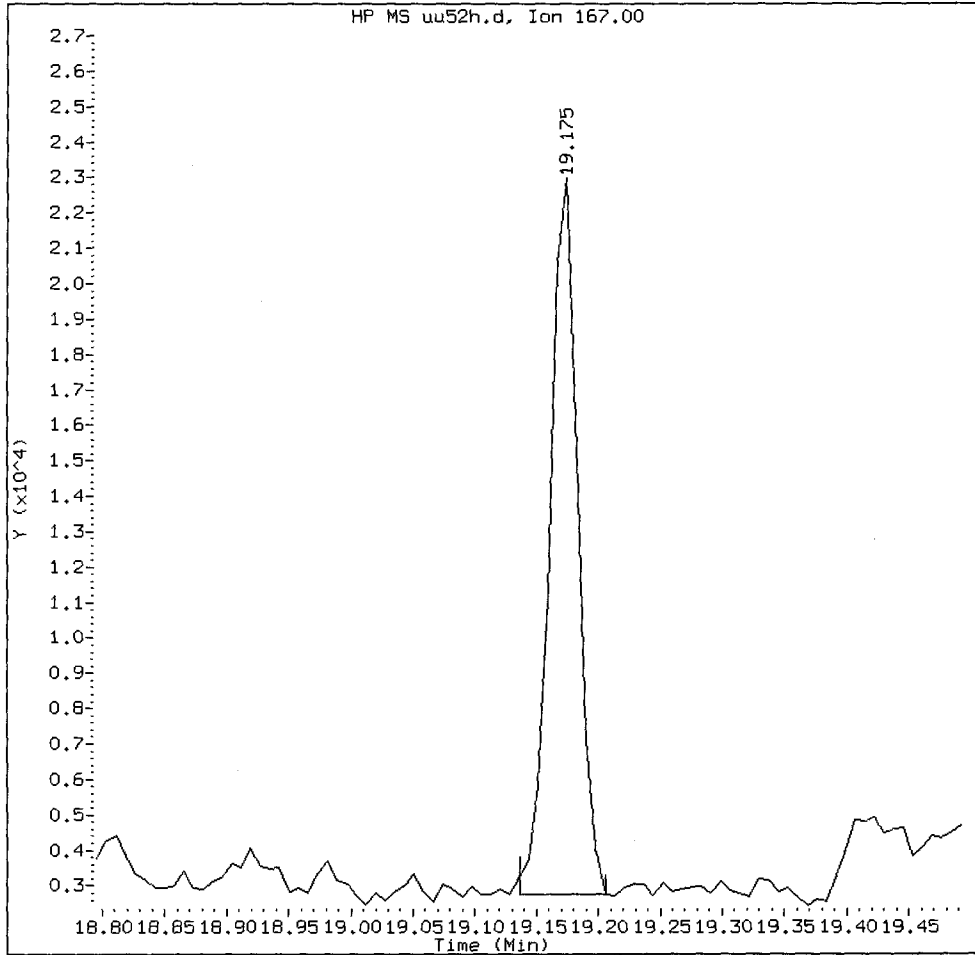
- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

5. Other _____

Analyst: ve Date: 5/30/11

UU52H, /chem1/nt10.i/20120526.b/uu52h.d

Carbazole Amount: 0.21 Area: 32390



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: Y2

Date: 6/4/02

CO-ELUTION SUMMARY FOR FILE - uu52h.d

Lab ID: UU52H, Method: ABN.m, Instrument: nt10.i, Date: 26-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

YZ 6/4/12

Semivolatiles Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120529.b/uu52hms.d
 Lab Smp Id: UU52HMS Client Smp ID: MS007-SS-120515 MS
 Inj Date : 29-MAY-2012 11:41
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52HMS
 Misc Info : 12-8900
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120529.b/ABN.m
 Meth Date : 30-May-2012 12:34 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 63.10000 | Weight of sample extracted (g) |
| M | 83.90000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|-------|-------|---------|--------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.583 | 6.560 | (0.742) | 101244 | 1.49213 | 440.6 | |
| \$ 2 Phenol-d5 | 99 | 8.275 | 8.260 | (0.933) | 127108 | 1.50385 | 444.1 | |
| 3 Phenol | 94 | 8.299 | 8.283 | (0.935) | 172409 | 1.91371 | 565.1 | |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.492 | (0.958) | 116564 | 1.57412 | 464.8 | |
| 4 Bis(2-Chloroethyl)ether | 93 | 8.415 | 8.399 | (0.949) | 66833 | 0.99632 | 294.2 | |
| 6 2-Chlorophenol | 128 | 8.530 | 8.507 | (0.962) | 76783 | 0.96513 | 285.0 | |
| 7 1,3-Dichlorobenzene | 146 | 8.801 | 8.794 | (0.992) | 73928 | 0.92812 | 274.1 | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.871 | 8.863 | (1.000) | 194036 | 4.00000 | | |
| 9 1,4-Dichlorobenzene | 146 | 8.902 | 8.894 | (1.003) | 75383 | 0.96961 | 286.3 | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.251 | 9.244 | (1.043) | 47260 | 0.97287 | 287.3 | |
| 12 1,2-Dichlorobenzene | 146 | 9.275 | 9.275 | (1.045) | 73190 | 0.96481 | 284.9 | |
| 11 Benzyl alcohol | 108 | 9.197 | 9.182 | (1.037) | 55657 | 1.47046 | 434.2 | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | 9.500 | 9.492 | (1.071) | 25332 | 1.02579 | 302.9 | |
| 13 2-Methylphenol | 108 | 9.461 | 9.453 | (1.066) | 70923 | 0.99882 | 295.0 | |

| Compounds | QUANT SIG | | | | RESPONSE | CONCENTRATIONS | | |
|-------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 17 Hexachloroethane | 117 | 9.896 | 9.896 | (1.115) | 16906 | 0.55970 | 165.3 | |
| 16 N-Nitroso-di-n-propylamine | 70 | 9.779 | 9.756 | (1.102) | 43991 | 1.05136 | 310.5 | |
| 15 4-Methylphenol | 108 | 9.764 | 9.748 | (1.101) | 462677 | 6.24562 | 1844 (R) | |
| \$ 18 Nitrobenzene-d5 | 82 | 10.043 | 10.035 | (0.872) | 65762 | 0.98310 | 290.3 | |
| 19 Nitrobenzene | 77 | 10.074 | 10.059 | (0.875) | 68080 | 1.03410 | 305.4 | |
| 20 Isophorone | 82 | 10.571 | 10.540 | (0.918) | 128239 | 1.03327 | 305.1 | |
| 21 2-Nitrophenol | 139 | 10.749 | 10.733 | (0.934) | 39891 | 0.96092 | 283.8 | |
| 22 2,4-Dimethylphenol | 107 | 10.856 | 10.857 | (0.943) | 220951 | 3.35970 | 992.1 | |
| 23 Bis(2-Chloroethoxy)methane | 93 | 11.041 | 11.034 | (0.959) | 81494 | 1.10256 | 325.6 | |
| 24 Benzoic acid | 105 | 11.095 | 11.126 | (0.964) | 428637 | 9.83134 | 2903 | |
| 25 2,4-Dichlorophenol | 162 | 11.257 | 11.226 | (0.978) | 219916 | 3.47654 | 1027 | |
| 26 1,2,4-Trichlorobenzene | 180 | 11.427 | 11.427 | (0.993) | 64102 | 1.06445 | 314.3 | |
| * 27 Naphthalene-d8 | 136 | 11.512 | 11.512 | (1.000) | 746578 | 4.00000 | | |
| 28 Naphthalene | 128 | 11.558 | 11.550 | (1.004) | 1229770 | 6.53395 | 1929 (R) | |
| 29 4-Chloroaniline | 127 | 11.558 | 11.705 | (1.004) | 154500 | 1.84249 | 544.1 | |
| 30 Hexachlorobutadiene | 225 | 11.952 | 11.952 | (1.038) | 34653 | 1.07012 | 316.0 | |
| 31 4-Chloro-3-methylphenol | 107 | 12.811 | 12.772 | (1.113) | 201937 | 3.55781 | 1051 | |
| 32 2-Methylnaphthalene | 142 | 13.051 | 13.051 | (1.134) | 233582 | 1.78521 | 527.2 | |
| 33 Hexachlorocyclopentadiene | 237 | Compound Not Detected. | | | | | | |
| 34 2,4,6-Trichlorophenol | 196 | 13.748 | 13.724 | (0.893) | 148535 | 3.50391 | 1035 | |
| 35 2,4,5-Trichlorophenol | 196 | 13.840 | 13.809 | (0.899) | 165113 | 3.63850 | 1074 | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.910 | 13.910 | (0.904) | 159234 | 1.06782 | 315.3 | |
| 37 2-Chloronaphthalene | 162 | 14.111 | 14.104 | (0.917) | 140323 | 1.10077 | 325.1 | |
| 38 2-Nitroaniline | 65 | 14.382 | 14.398 | (0.935) | 9450 | 0.30995 | 91.53 | |
| 39 Dimethylphthalate | 163 | 14.909 | 14.909 | (0.969) | 150279 | 1.13699 | 335.8 | |
| 40 Acenaphthylene | 152 | 15.048 | 15.048 | (0.978) | 291348 | 1.50803 | 445.3 | |
| 41 2,6-Dinitrotoluene | 165 | 15.040 | 15.025 | (0.977) | 118419 | 3.67744 | 1086 | |
| * 42 Acenaphthene-d10 | 164 | 15.388 | 15.388 | (1.000) | 430169 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 15.458 | 15.319 | (1.005) | 193639 | 5.32606 | 1573 | |
| 44 Acenaphthene | 153 | 15.458 | 15.458 | (1.005) | 180825 | 1.55173 | 458.2 | |
| 45 2,4-Dinitrophenol | 184 | 15.574 | 15.558 | (1.012) | 25162 | 1.20910 | 357.0 | |
| 46 Dibenzofuran | 168 | 15.813 | 15.813 | (1.028) | 299092 | 1.75192 | 517.3 | |
| 47 4-Nitrophenol | 109 | 15.798 | 15.736 | (1.027) | 49645 | 3.54810 | 1048 | |
| 48 2,4-Dinitrotoluene | 165 | 15.914 | 15.891 | (1.034) | 134060 | 3.22684 | 952.9 | |
| 50 Diethylphthalate | 149 | 16.486 | 16.478 | (1.071) | 165739 | 1.28626 | 379.8 | |
| 49 Fluorene | 166 | 16.579 | 16.579 | (1.077) | 212646 | 1.62559 | 480.0 | |
| 51 4-Chlorophenyl-phenylether | 204 | 16.594 | 16.579 | (1.078) | 80584 | 1.29736 | 383.1 | |
| 52 4-Nitroaniline | 138 | Compound Not Detected. | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.810 | 16.795 | (0.901) | 71647 | 2.78565 | 822.6 | |
| 54 N-Nitrosodiphenylamine | 169 | 16.872 | 16.872 | (0.904) | 35929 | 0.41204 | 121.7 (R) | |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.165 | 17.157 | (1.115) | 31329 | 1.76449 | 521.1 | |
| 56 4-Bromophenyl-phenylether | 248 | 17.674 | 17.659 | (0.947) | 38264 | 1.10269 | 325.6 | |
| 57 Hexachlorobenzene | 284 | 17.999 | 17.991 | (0.965) | 44453 | 1.11106 | 328.1 | |
| 58 Pentachlorophenol | 266 | 18.401 | 18.394 | (0.986) | 76477 | 3.69386 | 1091 | |
| * 59 Phenanthrene-d10 | 188 | 18.657 | 18.649 | (1.000) | 648205 | 4.00000 | | |
| 60 Phenanthrene | 178 | 18.703 | 18.703 | (1.002) | 747122 | 4.46986 | 1320 (R) | |
| 61 Anthracene | 178 | 18.804 | 18.796 | (1.008) | 289577 | 1.65844 | 489.7 | |

| Compounds | QUANT | | SIG | | | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|------------------------|--------|---------|-------------------|----------|----------------|--|
| | MASS | RT | EXP RT | REL RT | ON-COLUMN (ug/mL) | | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.175 | 19.144 | (1.028) | 228173 | 1.41232 | 417.1 | |
| 63 Di-n-butylphthalate | 149 | 20.034 | 20.018 | (1.074) | 313544 | 1.37897 | 407.2 | |
| 64 Fluoranthene | 202 | 21.140 | 21.117 | (1.133) | 864441 | 4.55498 | 1345 (R) | |
| 65 Pyrene | 202 | 21.550 | 21.535 | (0.908) | 867459 | 4.10425 | 1212 (R) | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.852 | (0.921) | 144084 | 1.08823 | 321.4 | |
| 67 Butylbenzylphthalate | 149 | 22.804 | 22.797 | (0.961) | 137056 | 1.39792 | 412.8 | |
| 68 Benzo(a)anthracene | 228 | 23.703 | 23.695 | (0.999) | 376148 | 1.92505 | 568.5 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 694641 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.772 | 23.765 | (1.002) | 400588 | 2.33049 | 688.2 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 248712 | 1.62995 | 481.3 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.810 | 24.802 | (1.000) | 1111139 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 24.817 | 24.817 | (1.000) | 342824 | 1.26816 | 374.5 | |
| 74 Benzo(b)fluoranthene | 252 | 25.475 | 25.444 | (0.975) | 430059 | 2.22735 | 657.7 | |
| 75 Benzo(k)fluoranthene | 252 | 25.506 | 25.483 | (0.976) | 442671 | 2.08216 | 614.9 (H) | |
| 76 Benzo(a)pyrene | 252 | 26.033 | 26.025 | (0.996) | 367101 | 2.06559 | 610.0 | |
| * 77 Perylene-d12 | 264 | 26.134 | 26.126 | (1.000) | 687334 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.396 | 28.389 | (1.087) | 379406 | 1.84557 | 545.0 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.412 | 28.396 | (1.087) | 212193 | 1.31033 | 386.9 | |
| 80 Benzo(g,h,i)perylene | 276 | 29.064 | 29.041 | (1.112) | 380629 | 2.15917 | 637.6 | |
| 90 N-Nitrosodimethylamine | 74 | 4.297 | 4.266 | (0.484) | 112429 | 2.78683 | 823.0 | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | 4.336 | 4.290 | (0.489) | 173597 | 4.98363 | 1472 | |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.291 | (1.155) | 199418 | 1.49446 | 441.3 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.941 | 16.926 | (1.101) | 118047 | 0.90417 | 267.0 | |
| 187 Total Benzofluoranthenes | 252 | 25.475 | 25.506 | (0.975) | 807627 | 4.23470 | 1251 | |
| 99 Perylene | 252 | 26.180 | 26.149 | (1.002) | 205240 | 1.14877 | 339.2 | |
| 98 Retene | 219 | 22.146 | 22.146 | (0.933) | 30149 | 0.30633 | 90.46 | |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52hms.d
 Lab Smp Id: UU52HMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8900

Calibration Date: 29-MAY-2012
 Calibration Time: 11:01
 Client Smp ID: MS007-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 194036 | 2.39 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 746578 | 2.14 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 430169 | 2.25 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 648205 | 1.45 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 694641 | 7.69 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1111139 | 9.35 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 687334 | 5.74 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.87 | 0.09 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.65 | 18.15 | 19.15 | 18.66 | 0.04 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.80 | 24.30 | 25.30 | 24.81 | 0.03 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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: Anchor QEA
 Sample Matrix: SOLID
 Lab Smp Id: UU52HMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: SHORTPSDDA.spk
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8900

Client SDG: UU52
 Fraction: SV
 Client Smp ID: MS007-SS-120515 MS
 Operator: VTS/YZ
 SampleType: MS
 Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|-----------------------|------------------------|----------------------------|----------------|--------|
| 3 Phenol | 492.2 | 565.1 | 114.82 | 30-160 |
| 7 1,3-Dichlorobenzen | 492.2 | 274.1 | 55.69 | 30-160 |
| 9 1,4-Dichlorobenzen | 492.2 | 286.3 | 58.18 | 30-160 |
| 11 Benzyl alcohol | 492.2 | 434.2 | 88.23 | 30-160 |
| 12 1,2-Dichlorobenzen | 492.2 | 284.9 | 57.89 | 30-160 |
| 13 2-Methylphenol | 492.2 | 295.0 | 59.93 | 30-160 |
| 15 4-Methylphenol | 984.3 | 1844 | 187.37* | 30-160 |
| 17 Hexachloroethane | 492.2 | 165.3 | 33.58 | 30-160 |
| 22 2,4-Dimethylphenol | 1477 | 992.1 | 67.19 | 30-160 |
| 24 Benzoic acid | 2707 | 2903 | 107.25 | 30-160 |
| 26 1,2,4-Trichloroben | 492.2 | 314.3 | 63.87 | 30-160 |
| 28 Naphthalene | 492.2 | 1929 | 392.04* | 30-160 |
| 30 Hexachlorobutadien | 492.2 | 316.0 | 64.21 | 30-160 |
| 32 2-Methylnaphthalen | 492.2 | 527.2 | 107.11 | 30-160 |
| 39 Dimethylphthalate | 492.2 | 335.8 | 68.22 | 30-160 |
| 40 Acenaphthylene | 492.2 | 445.3 | 90.48 | 30-160 |
| 44 Acenaphthene | 492.2 | 458.2 | 93.10 | 30-160 |
| 46 Dibenzofuran | 492.2 | 517.3 | 105.12 | 30-160 |
| 49 Fluorene | 492.2 | 480.0 | 97.54 | 30-160 |
| 50 Diethylphthalate | 492.2 | 379.8 | 77.18 | 30-160 |
| 54 N-Nitrosodiphenyla | 492.2 | 121.7 | 24.72* | 30-160 |
| 57 Hexachlorobenzene | 492.2 | 328.1 | 66.66 | 30-160 |
| 58 Pentachlorophenol | 1477 | 1091 | 73.88 | 30-160 |
| 60 Phenanthrene | 492.2 | 1320 | 268.19* | 30-160 |
| 61 Anthracene | 492.2 | 489.7 | 99.51 | 30-160 |
| 63 Di-n-butylphthalat | 492.2 | 407.2 | 82.74 | 30-160 |
| 64 Fluoranthene | 492.2 | 1345 | 273.30* | 30-160 |
| 65 Pyrene | 492.2 | 1212 | 246.25* | 30-160 |
| 67 Butylbenzylphthala | 492.2 | 412.8 | 83.88 | 30-160 |
| 68 Benzo(a)anthracene | 492.2 | 568.5 | 115.50 | 30-160 |
| 71 Chrysene | 492.2 | 688.2 | 139.83 | 30-160 |
| 72 bis(2-Ethylhexyl)p | 492.2 | 481.3 | 97.80 | 30-160 |
| 73 Di-n-octylphthalat | 492.2 | 374.5 | 76.09 | 30-160 |

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|------------------------|------------------------|----------------------------|----------------|--------|
| 76 Benzo(a)pyrene | 492.2 | 610.0 | 123.94 | 30-160 |
| 78 Indeno(1,2,3-cd)py | 492.2 | 545.0 | 110.73 | 30-160 |
| 79 Dibenzo(a,h)anthra | 492.2 | 386.9 | 78.62 | 30-160 |
| 80 Benzo(g,h,i)peryle | 492.2 | 637.6 | 129.55 | 30-160 |
| 105 1-methylnaphthalen | 492.2 | 441.3 | 89.67 | 30-160 |
| 187 Total Benzofluoran | 984.3 | 1251 | 127.04 | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 738.3 | 440.6 | 59.69 | 30-160 |
| \$ 2 Phenol-d5 | 738.3 | 444.1 | 60.15 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 738.3 | 464.8 | 62.96 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 492.2 | 287.3 | 58.37 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 492.2 | 290.3 | 58.99 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 492.2 | 315.3 | 64.07 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 738.3 | 521.1 | 70.58 | 30-160 |
| \$ 66 Terphenyl-d14 | 492.2 | 321.4 | 65.29 | 30-160 |

Date : 29-MAY-2012 11:41

Client ID: MS007-SS-120515 MS

Sample Info: UU52HMS

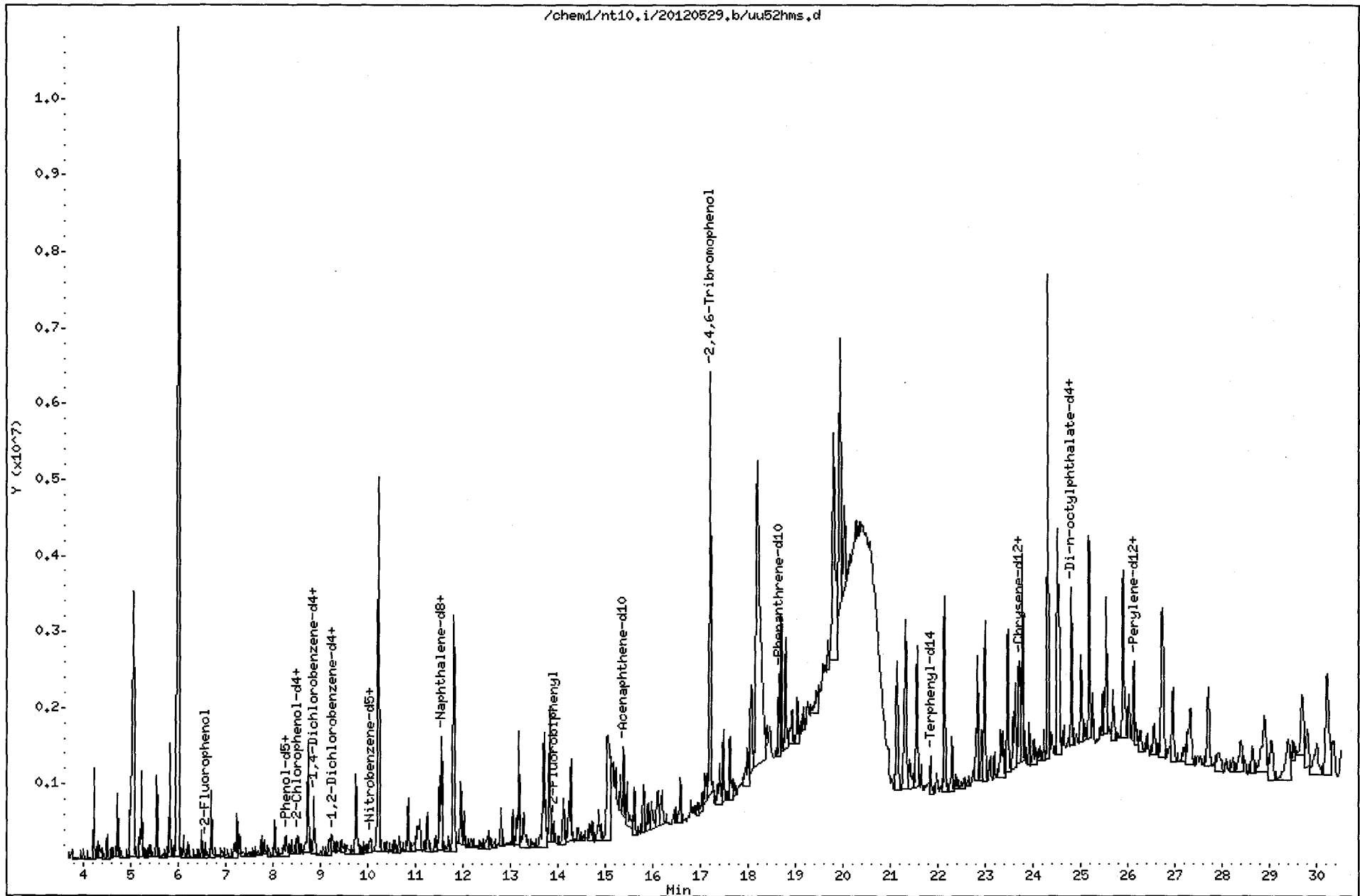
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10,i

Operator: VTS/YZ

Column diameter: 0,25



UU52:00976

CO-ELUTION SUMMARY FOR FILE - uu52hms.d

Lab ID: UU52HMS, Method: ABN.m, Instrument: nt10.i, Date: 29-MAY-2012

| RT | CO-ELUTION COMPOUNDS |
|--------|---------------------------------|
| 15.458 | Acenaphthene and 3-Nitroaniline |

Analytical Resources, Inc.

YZ 6/4/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120529.b/uu52hmsd.d
 Lab Smp Id: UU52HMSD Client Smp ID: MS007-SS-120515 MSD
 Inj Date : 29-MAY-2012 12:19
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52HMSD,3
 Misc Info : 12-8900
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120529.b/ABN.m
 Meth Date : 30-May-2012 12:34 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 2 QC Sample: MSD
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 63.20000 | Weight of sample extracted (g) |
| M | 83.90000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|-------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | | 112 | 6.575 | 6.560 | (0.741) | 110832 | 1.59579 | 470.5 |
| \$ 2 Phenol-d5 | | 99 | 8.268 | 8.260 | (0.932) | 141462 | 1.63511 | 482.1 |
| 3 Phenol | | 94 | 8.291 | 8.283 | (0.935) | 170430 | 1.84814 | 544.9 |
| \$ 5 2-Chlorophenol-d4 | | 132 | 8.499 | 8.492 | (0.958) | 125303 | 1.65314 | 487.4 |
| 4 Bis(2-Chloroethyl)ether | | 93 | 8.407 | 8.399 | (0.948) | 73510 | 1.07061 | 315.7 |
| 6 2-Chlorophenol | | 128 | 8.530 | 8.507 | (0.962) | 86235 | 1.05895 | 312.2 |
| 7 1,3-Dichlorobenzene | | 146 | 8.793 | 8.794 | (0.991) | 81422 | 0.99865 | 294.4 |
| * 8 1,4-Dichlorobenzene-d4 | | 152 | 8.871 | 8.863 | (1.000) | 198613 | 4.00000 | |
| 9 1,4-Dichlorobenzene | | 146 | 8.902 | 8.894 | (1.003) | 81307 | 1.02171 | 301.2 |
| \$ 10 1,2-Dichlorobenzene-d4 | | 152 | 9.243 | 9.244 | (1.042) | 50697 | 1.01958 | 300.6 |
| 12 1,2-Dichlorobenzene | | 146 | 9.275 | 9.275 | (1.045) | 79683 | 1.02619 | 302.6 |
| 11 Benzyl alcohol | | 108 | 9.189 | 9.182 | (1.036) | 58988 | 1.52255 | 448.9 |
| 14 2,2'-oxybis(1-Chloropropane) | | 121 | 9.500 | 9.492 | (1.071) | 27273 | 1.07894 | 318.1 |
| 13 2-Methylphenol | | 108 | 9.461 | 9.453 | (1.066) | 78682 | 1.08256 | 319.2 |

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | ==== | 117 | 9.896 | 9.896 | (1.115) | 24370 | 0.78821 | 232.4 |
| 16 N-Nitroso-di-n-propylamine | | 70 | 9.771 | 9.756 | (1.101) | 48611 | 1.13500 | 334.6 |
| 15 4-Methylphenol | | 108 | 9.756 | 9.748 | (1.100) | 447575 | 5.90253 | 1740 (R) |
| \$ 18 Nitrobenzene-d5 | | 82 | 10.035 | 10.035 | (0.872) | 74989 | 1.08072 | 318.6 |
| 19 Nitrobenzene | | 77 | 10.074 | 10.059 | (0.875) | 72545 | 1.06229 | 313.2 |
| 20 Isophorone | | 82 | 10.563 | 10.540 | (0.918) | 139910 | 1.08676 | 320.4 |
| 21 2-Nitrophenol | | 139 | 10.748 | 10.733 | (0.934) | 44934 | 1.04347 | 307.7 |
| 22 2,4-Dimethylphenol | | 107 | 10.856 | 10.857 | (0.943) | 249149 | 3.65222 | 1077 |
| 23 Bis(2-Chloroethoxy)methane | | 93 | 11.041 | 11.034 | (0.959) | 90259 | 1.17722 | 347.1 |
| 24 Benzoic acid | | 105 | 11.080 | 11.126 | (0.962) | 389454 | 8.62877 | 2544 |
| 25 2,4-Dichlorophenol | | 162 | 11.257 | 11.226 | (0.978) | 237172 | 3.61448 | 1066 |
| 26 1,2,4-Trichlorobenzene | | 180 | 11.427 | 11.427 | (0.993) | 69580 | 1.11386 | 328.4 |
| * 27 Naphthalene-d8 | | 136 | 11.512 | 11.512 | (1.000) | 774430 | 4.00000 | |
| 28 Naphthalene | | 128 | 11.558 | 11.550 | (1.004) | 976870 | 5.00359 | 1475 (R) |
| 29 4-Chloroaniline | | 127 | 11.558 | 11.705 | (1.004) | 124139 | 1.42718 | 420.8 |
| 30 Hexachlorobutadiene | | 225 | 11.960 | 11.952 | (1.039) | 38164 | 1.13616 | 335.0 |
| 31 4-Chloro-3-methylphenol | | 107 | 12.811 | 12.772 | (1.113) | 225570 | 3.83126 | 1130 |
| 32 2-Methylnaphthalene | | 142 | 13.051 | 13.051 | (1.134) | 244879 | 1.80424 | 532.0 |
| 33 Hexachlorocyclopentadiene | | 237 | Compound Not Detected. | | | | | |
| 34 2,4,6-Trichlorophenol | | 196 | 13.747 | 13.724 | (0.893) | 170648 | 3.88126 | 1144 |
| 35 2,4,5-Trichlorophenol | | 196 | 13.840 | 13.809 | (0.899) | 182326 | 3.87380 | 1142 |
| \$ 36 2-Fluorobiphenyl | | 172 | 13.910 | 13.910 | (0.904) | 178662 | 1.15516 | 340.6 |
| 37 2-Chloronaphthalene | | 162 | 14.111 | 14.104 | (0.917) | 157369 | 1.19024 | 350.9 |
| 38 2-Nitroaniline | | 65 | 14.421 | 14.398 | (0.937) | 93699 | 2.96308 | 873.6 |
| 39 Dimethylphthalate | | 163 | 14.908 | 14.909 | (0.969) | 173458 | 1.26532 | 373.1 |
| 40 Acenaphthylene | | 152 | 15.048 | 15.048 | (0.978) | 311997 | 1.55703 | 459.1 |
| 41 2,6-Dinitrotoluene | | 165 | 15.040 | 15.025 | (0.977) | 120902 | 3.61997 | 1067 |
| * 42 Acenaphthene-d10 | | 164 | 15.388 | 15.388 | (1.000) | 446161 | 4.00000 | |
| 43 3-Nitroaniline | | 138 | 15.295 | 15.319 | (0.994) | 4529 | 0.12011 | 35.41 |
| 44 Acenaphthene | | 153 | 15.458 | 15.458 | (1.005) | 194073 | 1.60572 | 473.4 |
| 45 2,4-Dinitrophenol | | 184 | 15.574 | 15.558 | (1.012) | 47113 | 2.17951 | 642.6 |
| 46 Dibenzofuran | | 168 | 15.813 | 15.813 | (1.028) | 322580 | 1.82177 | 537.1 |
| 47 4-Nitrophenol | | 109 | 15.798 | 15.736 | (1.027) | 49409 | 3.40466 | 1004 |
| 48 2,4-Dinitrotoluene | | 165 | 15.914 | 15.891 | (1.034) | 152879 | 3.54792 | 1046 |
| 50 Diethylphthalate | | 149 | 16.486 | 16.478 | (1.071) | 173074 | 1.29504 | 381.8 |
| 49 Fluorene | | 166 | 16.579 | 16.579 | (1.077) | 231739 | 1.70805 | 503.6 |
| 51 4-Chlorophenyl-phenylether | | 204 | 16.594 | 16.579 | (1.078) | 95870 | 1.48813 | 438.8 |
| 52 4-Nitroaniline | | 138 | Compound Not Detected. | | | | | |
| 53 4,6-Dinitro-2-methylphenol | | 198 | 16.810 | 16.795 | (0.901) | 110416 | 4.38035 | 1291 |
| 54 N-Nitrosodiphenylamine | | 169 | 16.872 | 16.872 | (0.904) | 74878 | 0.87618 | 258.3 |
| \$ 55 2,4,6-Tribromophenol | | 330 | 17.165 | 17.157 | (1.115) | 35081 | 1.90499 | 561.7 |
| 56 4-Bromophenyl-phenylether | | 248 | 17.674 | 17.659 | (0.947) | 44525 | 1.30922 | 386.0 |
| 57 Hexachlorobenzene | | 284 | 17.999 | 17.991 | (0.965) | 51896 | 1.32348 | 390.2 |
| 58 Pentachlorophenol | | 266 | 18.401 | 18.394 | (0.986) | 84836 | 4.17548 | 1231 |
| * 59 Phenanthrene-d10 | | 188 | 18.657 | 18.649 | (1.000) | 635278 | 4.00000 | |
| 60 Phenanthrene | | 178 | 18.703 | 18.703 | (1.002) | 811532 | 4.95400 | 1461 (R) |
| 61 Anthracene | | 178 | 18.804 | 18.796 | (1.008) | 320099 | 1.87055 | 551.5 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | |
| 62 Carbazole | 167 | 19.175 | 19.144 | (1.028) | 274089 | 1.73104 | 510.4 | |
| 63 Di-n-butylphthalate | 149 | 20.034 | 20.018 | (1.074) | 334562 | 1.50135 | 442.6 | |
| 64 Fluoranthene | 202 | 21.140 | 21.117 | (1.133) | 957834 | 5.14979 | 1518 (R) | |
| 65 Pyrene | 202 | 21.550 | 21.535 | (0.908) | 977579 | 4.49857 | 1326 (R) | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.852 | (0.921) | 166736 | 1.22482 | 361.1 | |
| 67 Butylbenzylphthalate | 149 | 22.804 | 22.797 | (0.961) | 148764 | 1.47577 | 435.1 | |
| 68 Benzo(a)anthracene | 228 | 23.702 | 23.695 | (0.999) | 436945 | 2.17495 | 641.2 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 714204 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.772 | 23.765 | (1.002) | 485623 | 2.74781 | 810.1 (R) | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 267342 | 1.73674 | 512.0 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.809 | 24.802 | (1.000) | 1120932 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 24.817 | 24.817 | (1.000) | 384408 | 1.40956 | 415.6 | |
| 74 Benzo(b)fluoranthene | 252 | 25.475 | 25.444 | (0.975) | 525084 | 2.64706 | 780.4 | |
| 75 Benzo(k)fluoranthene | 252 | 25.506 | 25.483 | (0.976) | 542646 | 2.48441 | 732.5 (H) | |
| 76 Benzo(a)pyrene | 252 | 26.033 | 26.025 | (0.996) | 482776 | 2.64411 | 779.6 | |
| * 77 Perylene-d12 | 264 | 26.133 | 26.126 | (1.000) | 706143 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.396 | 28.389 | (1.087) | 469042 | 2.22081 | 654.8 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.419 | 28.396 | (1.087) | 274886 | 1.65226 | 487.1 | |
| 80 Benzo(g,h,i)perylene | 276 | 29.064 | 29.041 | (1.112) | 446533 | 2.46555 | 726.9 | |
| 90 N-Nitrosodimethylamine | 74 | 4.282 | 4.266 | (0.483) | 121010 | 2.93040 | 864.0 | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | 4.313 | 4.290 | (0.486) | 167828 | 4.70698 | 1388 | |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.291 | (1.155) | 212617 | 1.53607 | 452.9 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.941 | 16.926 | (1.101) | 141445 | 1.04455 | 308.0 | |
| 187 Total Benzofluoranthenes | 252 | 25.475 | 25.506 | (0.975) | 986483 | 5.03474 | 1484 | |
| 99 Perylene | 252 | 26.180 | 26.149 | (1.002) | 245864 | 1.33949 | 394.9 | |
| 98 Retene | 219 | 22.146 | 22.146 | (0.933) | 32395 | 0.32013 | 94.39 | |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52hmsd.d
 Lab Smp Id: UU52HMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8900

Calibration Date: 29-MAY-2012
 Calibration Time: 11:01
 Client Smp ID: MS007-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 198613 | 4.80 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 774430 | 5.95 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 446161 | 6.05 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 635278 | -0.57 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 714204 | 10.72 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1120932 | 10.32 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 706143 | 8.63 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.87 | 0.08 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.65 | 18.15 | 19.15 | 18.66 | 0.04 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.80 | 24.30 | 25.30 | 24.81 | 0.03 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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: Anchor QEA
 Sample Matrix: SOLID
 Lab Smp Id: UU52HMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: SHORTPSDDA.spk
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8900

Client SDG: UU52
 Fraction: SV
 Client Smp ID: MS007-SS-120515 MSD
 Operator: VTS/YZ
 SampleType: MSD
 Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|-----------------------|------------------------|----------------------------|----------------|--------|
| 3 Phenol | 491.4 | 544.9 | 110.89 | 30-160 |
| 7 1,3-Dichlorobenzen | 491.4 | 294.4 | 59.92 | 30-160 |
| 9 1,4-Dichlorobenzen | 491.4 | 301.2 | 61.30 | 30-160 |
| 11 Benzyl alcohol | 491.4 | 448.9 | 91.35 | 30-160 |
| 12 1,2-Dichlorobenzen | 491.4 | 302.6 | 61.57 | 30-160 |
| 13 2-Methylphenol | 491.4 | 319.2 | 64.95 | 30-160 |
| 15 4-Methylphenol | 982.8 | 1740 | 177.08* | 30-160 |
| 17 Hexachloroethane | 491.4 | 232.4 | 47.29 | 30-160 |
| 22 2,4-Dimethylphenol | 1474 | 1077 | 73.04 | 30-160 |
| 24 Benzoic acid | 2703 | 2544 | 94.13 | 30-160 |
| 26 1,2,4-Trichloroben | 491.4 | 328.4 | 66.83 | 30-160 |
| 28 Naphthalene | 491.4 | 1475 | 300.22* | 30-160 |
| 30 Hexachlorobutadien | 491.4 | 335.0 | 68.17 | 30-160 |
| 32 2-Methylnaphthalen | 491.4 | 532.0 | 108.25 | 30-160 |
| 39 Dimethylphthalate | 491.4 | 373.1 | 75.92 | 30-160 |
| 40 Acenaphthylene | 491.4 | 459.1 | 93.42 | 30-160 |
| 44 Acenaphthene | 491.4 | 473.4 | 96.34 | 30-160 |
| 46 Dibenzofuran | 491.4 | 537.1 | 109.31 | 30-160 |
| 49 Fluorene | 491.4 | 503.6 | 102.48 | 30-160 |
| 50 Diethylphthalate | 491.4 | 381.8 | 77.70 | 30-160 |
| 54 N-Nitrosodiphenyla | 491.4 | 258.3 | 52.57 | 30-160 |
| 57 Hexachlorobenzene | 491.4 | 390.2 | 79.41 | 30-160 |
| 58 Pentachlorophenol | 1474 | 1231 | 83.51 | 30-160 |
| 60 Phenanthrene | 491.4 | 1461 | 297.24* | 30-160 |
| 61 Anthracene | 491.4 | 551.5 | 112.23 | 30-160 |
| 63 Di-n-butylphthalat | 491.4 | 442.6 | 90.08 | 30-160 |
| 64 Fluoranthene | 491.4 | 1518 | 308.99* | 30-160 |
| 65 Pyrene | 491.4 | 1326 | 269.91* | 30-160 |
| 67 Butylbenzylphthala | 491.4 | 435.1 | 88.55 | 30-160 |
| 68 Benzo(a)anthracene | 491.4 | 641.2 | 130.50 | 30-160 |
| 71 Chrysene | 491.4 | 810.1 | 164.87* | 30-160 |
| 72 bis(2-Ethylhexyl)p | 491.4 | 512.0 | 104.20 | 30-160 |
| 73 Di-n-octylphthalat | 491.4 | 415.6 | 84.57 | 30-160 |

| SPIKE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|------------------------|------------------------|----------------------------|----------------|--------|
| 76 Benzo(a)pyrene | 491.4 | 779.6 | 158.65 | 30-160 |
| 78 Indeno(1,2,3-cd)py | 491.4 | 654.8 | 133.25 | 30-160 |
| 79 Dibenzo(a,h)anthra | 491.4 | 487.1 | 99.14 | 30-160 |
| 80 Benzo(g,h,i)peryle | 491.4 | 726.9 | 147.93 | 30-160 |
| 105 1-methylnaphthalen | 491.4 | 452.9 | 92.16 | 30-160 |
| 187 Total Benzofluoran | 982.8 | 1484 | 151.04 | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 737.1 | 470.5 | 63.83 | 30-160 |
| \$ 2 Phenol-d5 | 737.1 | 482.1 | 65.40 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 737.1 | 487.4 | 66.13 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 491.4 | 300.6 | 61.17 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 491.4 | 318.6 | 64.84 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 491.4 | 340.6 | 69.31 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 737.1 | 561.7 | 76.20 | 30-160 |
| \$ 66 Terphenyl-d14 | 491.4 | 361.1 | 73.49 | 30-160 |

Date : 29-MAY-2012 12:19

Client ID: MS007-SS-120515 MSD

Instrument: nt10.i

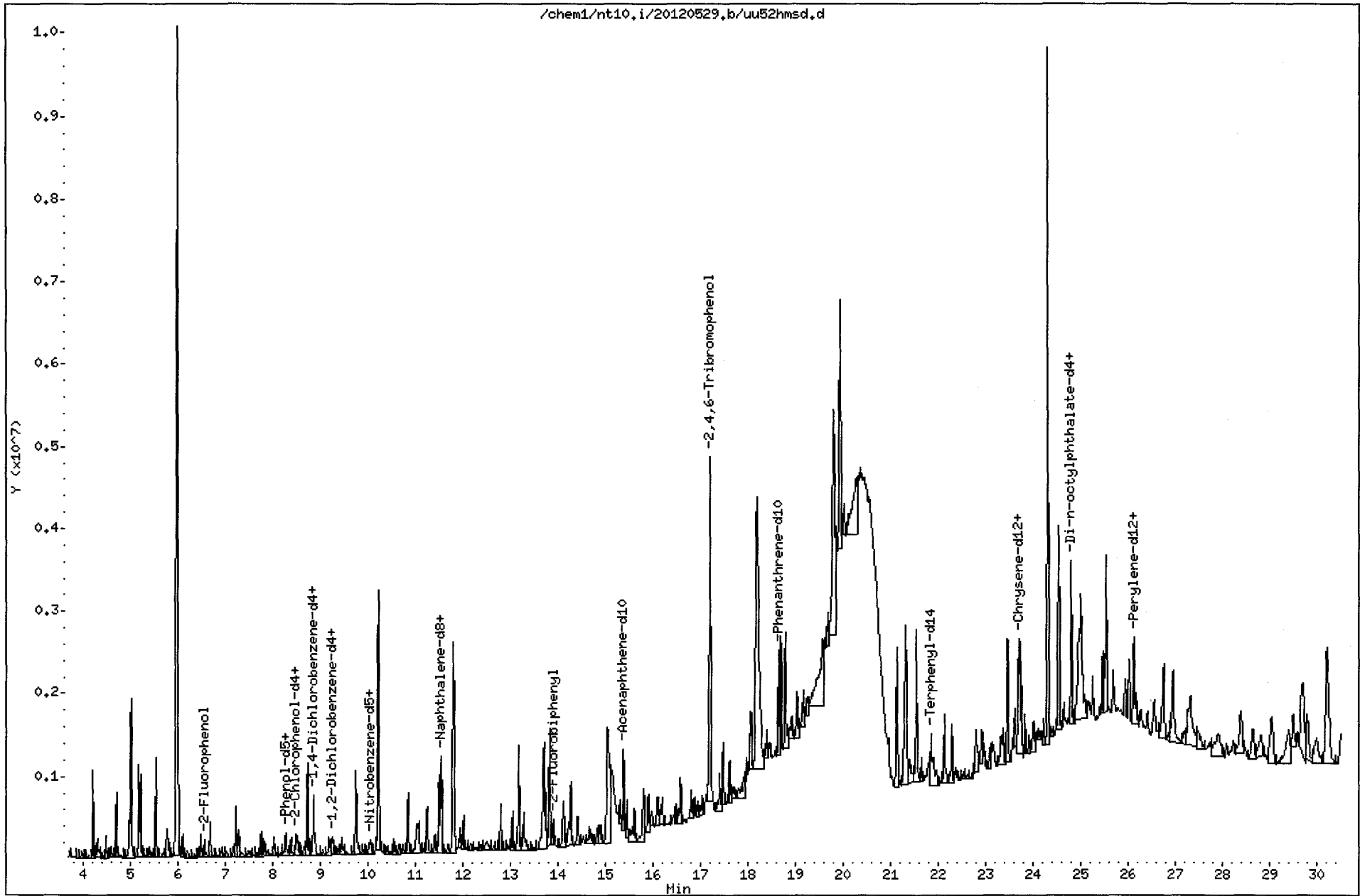
Sample Info: UU52HMSD,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25



UU52:00984

CO-ELUTION SUMMARY FOR FILE - uu52hmsd.d

Lab ID: UU52HMSD, Method: ABN.m, Instrument: nt10.i, Date: 29-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YZ 6/4/12

Data file : /chem1/nt10.i/20120529.b/uu52i.d
 Lab Smp Id: UU52I Client Smp ID: MS008-SS-120515
 Inj Date : 29-MAY-2012 12:56
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52I,3
 Misc Info : 12-8901
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120529.b/ABN.m
 Meth Date : 04-Jun-2012 11:20 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 3
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 91.40000 | Weight of sample extracted (g) |
| M | 89.00000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|-------|-------|---------|------------------------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.575 | 6.560 | (0.742) | 91528 | 1.32519 | 395.4 | |
| \$ 2 Phenol-d5 | 99 | 8.268 | 8.260 | (0.933) | 115454 | 1.34193 | 400.4 | |
| 3 Phenol | 94 | 8.299 | 8.283 | (0.936) | 59234 | 0.64591 | 192.7 | |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.492 | (0.959) | 106200 | 1.40891 | 420.4 | |
| 4 Bis(2-Chloroethyl) ether | 93 | | | | Compound Not Detected. | | | |
| 6 2-Chlorophenol | 128 | | | | Compound Not Detected. | | | |
| 7 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.863 | 8.863 | (1.000) | 197513 | 4.00000 | | |
| 9 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.244 | 9.244 | (1.043) | 41947 | 0.84830 | 253.1 | |
| 12 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | | |
| 11 Benzyl alcohol | 108 | 9.197 | 9.182 | (1.038) | 8380 | 0.21750 | 64.90 | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | | | Compound Not Detected. | | | |
| 13 2-Methylphenol | 108 | | | | Compound Not Detected. | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | 9.756 | 9.748 | (1.101) | 154409 | 2.04765 | 611.0 |
| \$ 18 Nitrobenzene-d5 | 82 | 10.035 | 10.035 | (0.872) | 60426 | 0.85200 | 254.2 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | 11.064 | 11.126 | (0.961) | 113932 | 2.49478 | 744.4 |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.512 | 11.512 | (1.000) | 791554 | 4.00000 | |
| 28 Naphthalene | 128 | 11.558 | 11.550 | (1.004) | 305764 | 1.53226 | 457.2 |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | 13.059 | 13.051 | (1.134) | 30415 | 0.21925 | 65.42 |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 13.910 | 13.910 | (0.904) | 148739 | 0.98611 | 294.2 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | 15.048 | 15.048 | (0.978) | 25499 | 0.13048 | 38.94 (M) |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.388 | 15.388 | (1.000) | 435113 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | 15.458 | 15.458 | (1.005) | 22635 | 0.19203 | 57.30 |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | 15.813 | 15.813 | (1.028) | 39712 | 0.22997 | 68.62 |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | 16.579 | 16.579 | (1.077) | 29393 | 0.22214 | 66.29 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.165 | 17.157 | (1.115) | 29285 | 1.63063 | 486.6 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 18.657 | 18.649 | (1.000) | 618705 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.703 | 18.703 | (1.002) | 258186 | 1.61832 | 482.9 |
| 61 Anthracene | 178 | 18.804 | 18.796 | (1.008) | 63527 | 0.38117 | 113.7 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|-----------------------------------|-----------|------------------------|----------------|---------|----------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.167 | 19.144 | (1.027) | 31906 | 0.20690 | 61.74 (M) | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.125 | 21.117 | (1.132) | 361547 | 1.99593 | 595.6 | |
| 65 Pyrene | 202 | 21.543 | 21.535 | (0.908) | 329576 | 1.53479 | 458.0 | |
| § 66 Terphenyl-d14 | 244 | 21.860 | 21.852 | (0.921) | 138794 | 1.03177 | 307.9 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo (a) anthracene | 228 | 23.703 | 23.695 | (0.999) | 129677 | 0.65321 | 194.9 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 705752 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.772 | 23.765 | (1.002) | 138542 | 0.79330 | 236.7 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 50237 | 0.33203 | 99.07 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.810 | 24.802 | (1.000) | 1101771 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo (b) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo (k) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo (a) pyrene | 252 | 26.033 | 26.025 | (0.996) | 127739 | 0.71530 | 213.4 | |
| * 77 Perylene-d12 | 264 | 26.134 | 26.126 | (1.000) | 690654 | 4.00000 | | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 28.404 | 28.389 | (1.087) | 97168 | 0.47039 | 140.4 | |
| 79 Dibenzo (a, h) anthracene | 278 | 28.404 | 28.396 | (1.087) | 28829 | 0.17717 | 52.87 (M) | |
| 80 Benzo (g, h, i) perylene | 276 | 29.072 | 29.041 | (1.112) | 102604 | 0.57924 | 172.8 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methyl naphthalene | 142 | 13.291 | 13.291 | (1.155) | 18250 | 0.12900 | 38.49 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.475 | 25.506 | (0.975) | 268207 | 1.39955 | 417.6 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | Compound Not Detected. | | | | | | |

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: uu52i.d
 Lab Smp Id: UU52I
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8901

Calibration Date: 29-MAY-2012
 Calibration Time: 11:01
 Client Smp ID: MS008-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 197513 | 4.22 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 791554 | 8.29 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 435113 | 3.43 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 618705 | -3.17 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 705752 | 9.41 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1101771 | 8.43 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 690654 | 6.25 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.86 | 0.00 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.65 | 18.15 | 19.15 | 18.66 | 0.04 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.80 | 24.30 | 25.30 | 24.81 | 0.03 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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: Anchor QEA, LLC. | Client SDG: UU52 |
| Sample Matrix: SOLID | Fraction: SV |
| Lab Smp Id: UU52I | Client Smp ID: MS008-SS-120515 |
| Level: LOW | Operator: VTS/YZ |
| Data Type: MS DATA | SampleType: SAMPLE |
| SpikeList File: SHORTPSDDA.spk | Quant Type: ISTD |
| Sublist File: PSDDAICAL.sub | |
| Method File: /chem1/nt10.i/20120529.b/ABN.m | |
| Misc Info: 12-8901 | |

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 746.0 | 395.4 | 53.01 | 30-160 |
| \$ 2 Phenol-d5 | 746.0 | 400.4 | 53.68 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 746.0 | 420.4 | 56.36 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 497.3 | 253.1 | 50.90 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 497.3 | 254.2 | 51.12 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 497.3 | 294.2 | 59.17 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 746.0 | 486.6 | 65.23 | 30-160 |
| \$ 66 Terphenyl-d14 | 497.3 | 307.9 | 61.91 | 30-160 |

Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Sample Info: UU52I,3

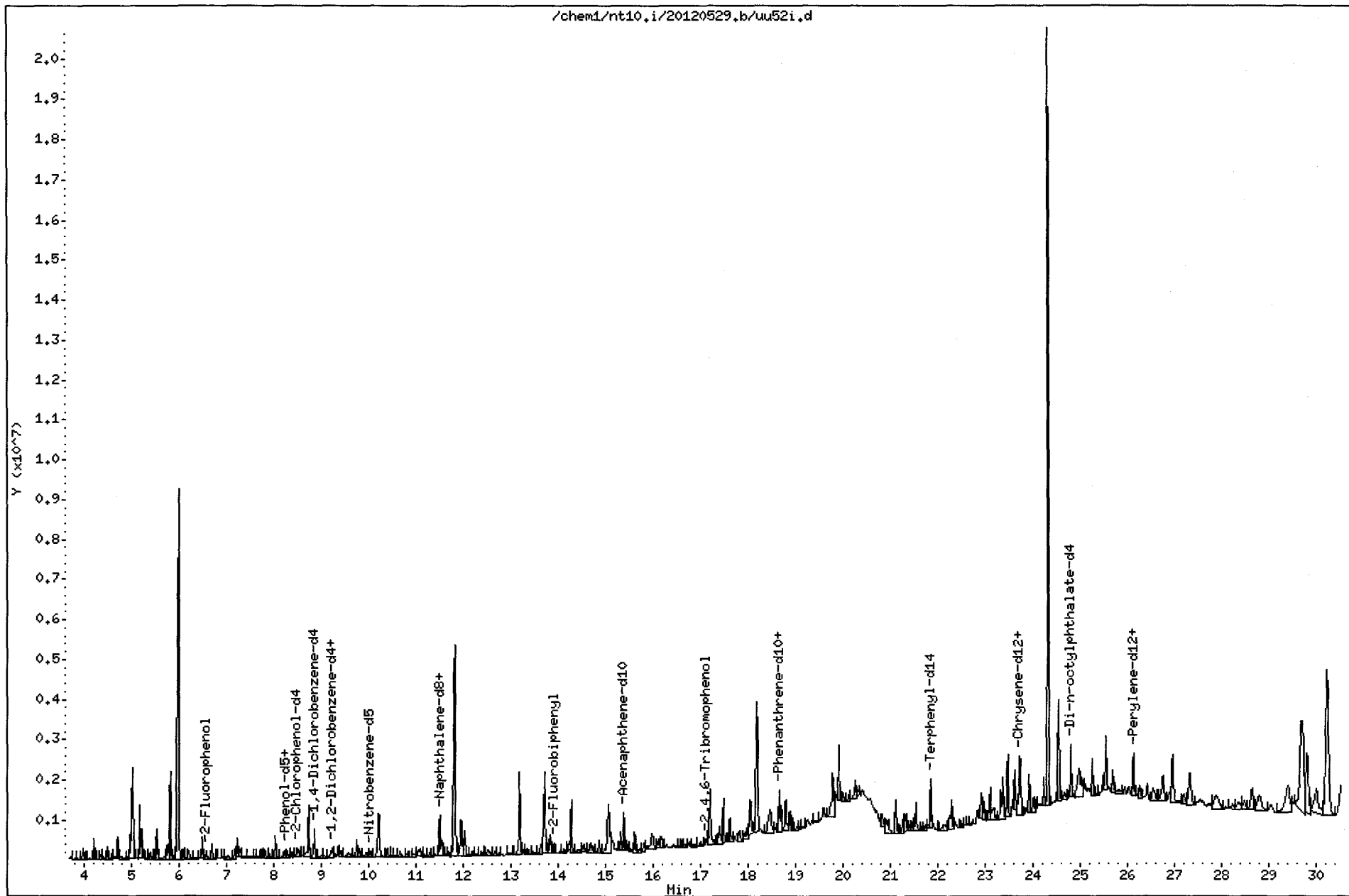
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS/YZ

Column diameter: 0.25



UU52:00991

Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

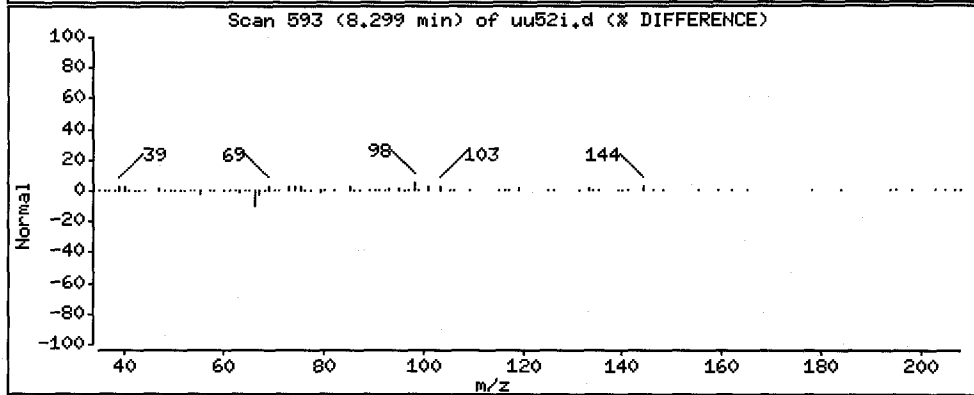
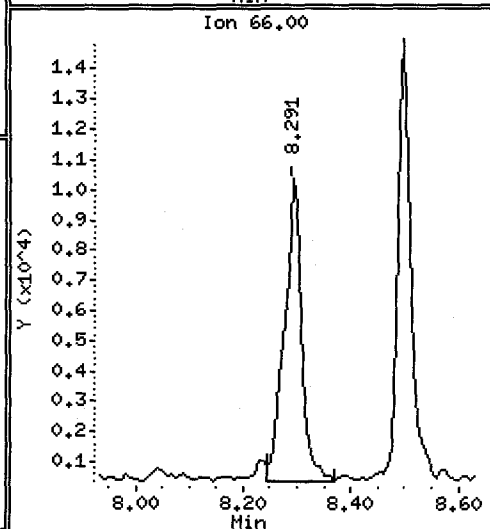
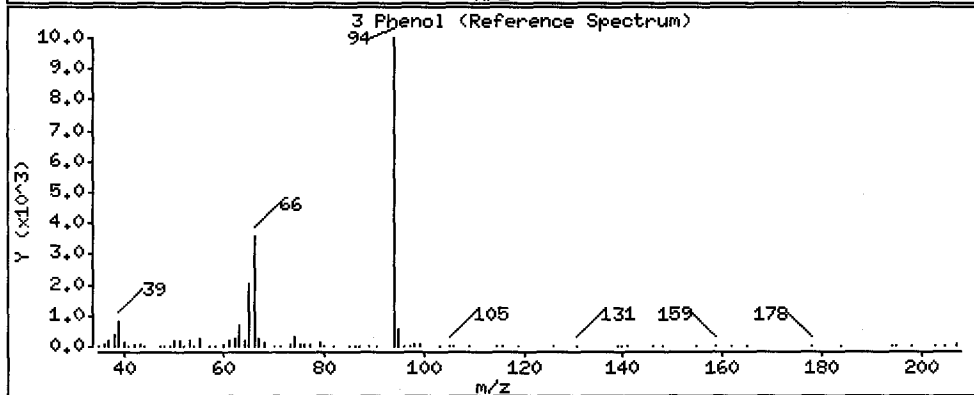
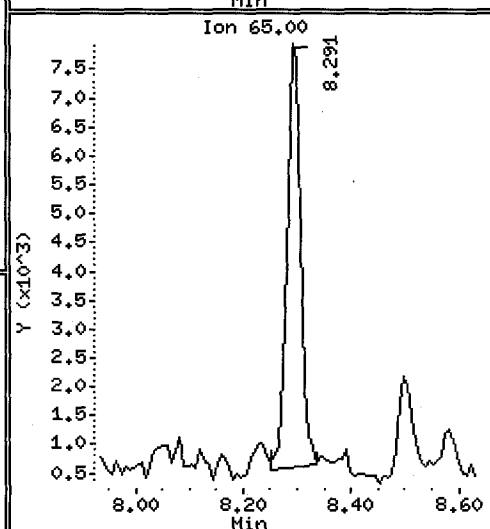
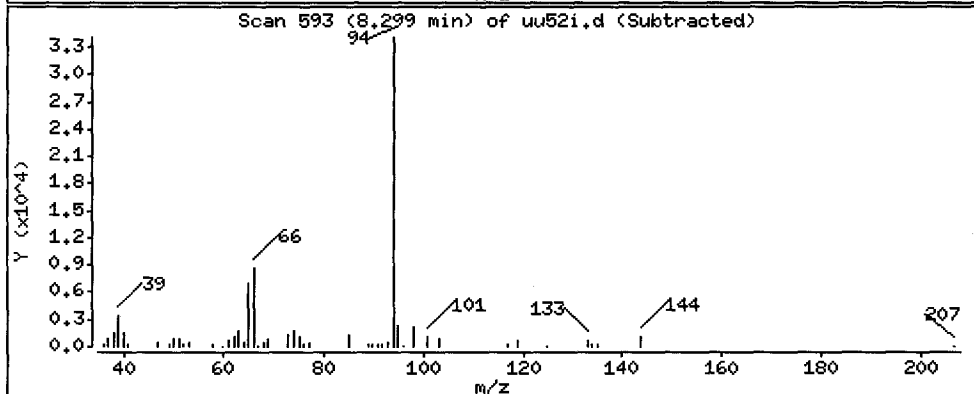
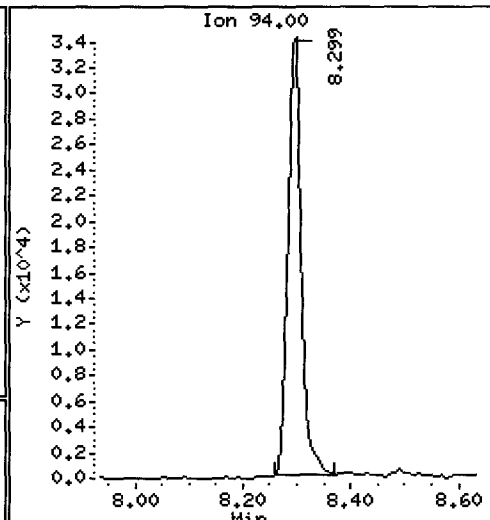
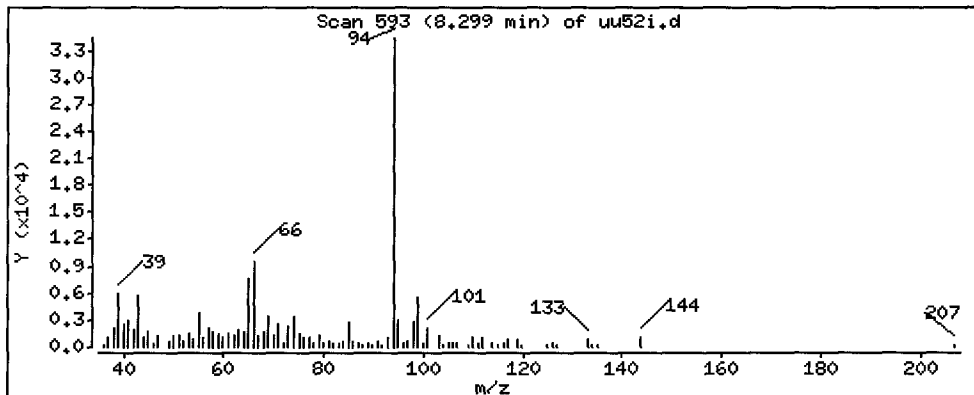
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 192.7 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

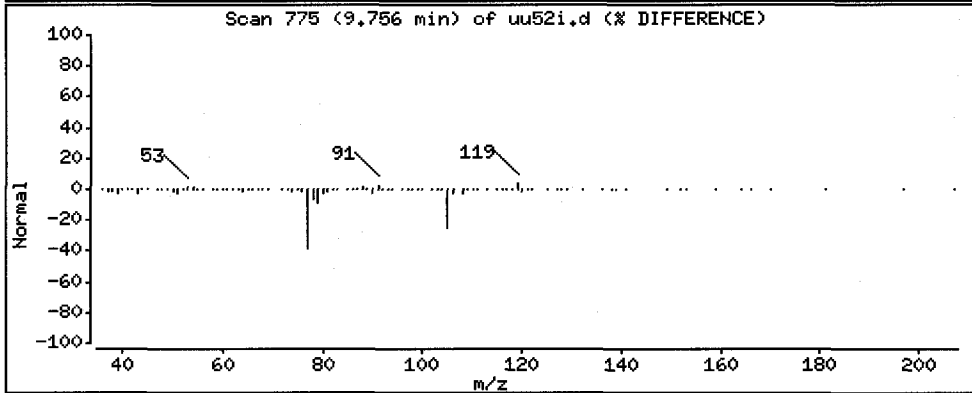
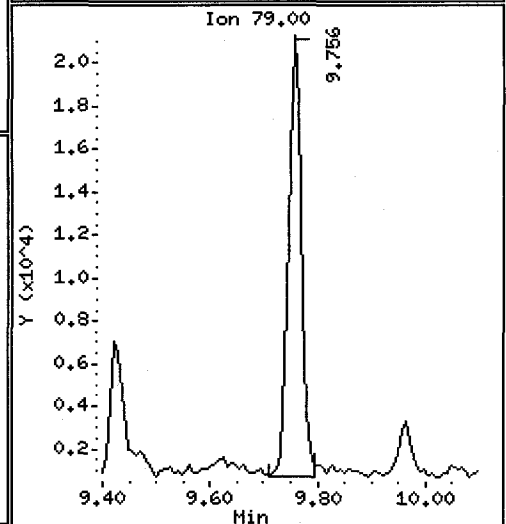
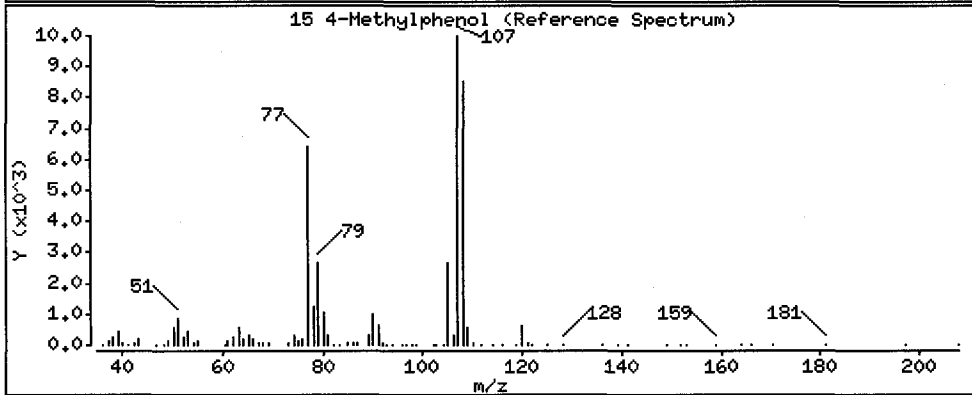
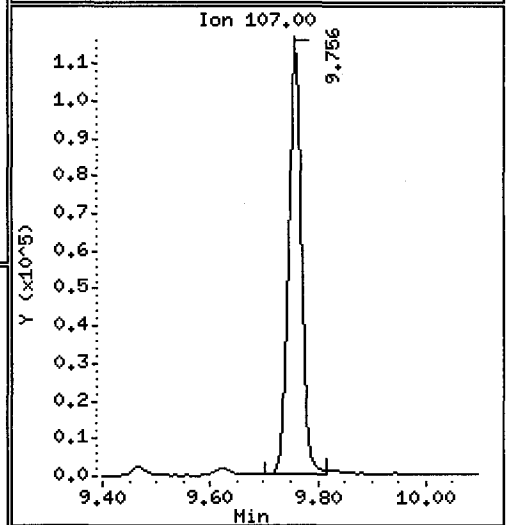
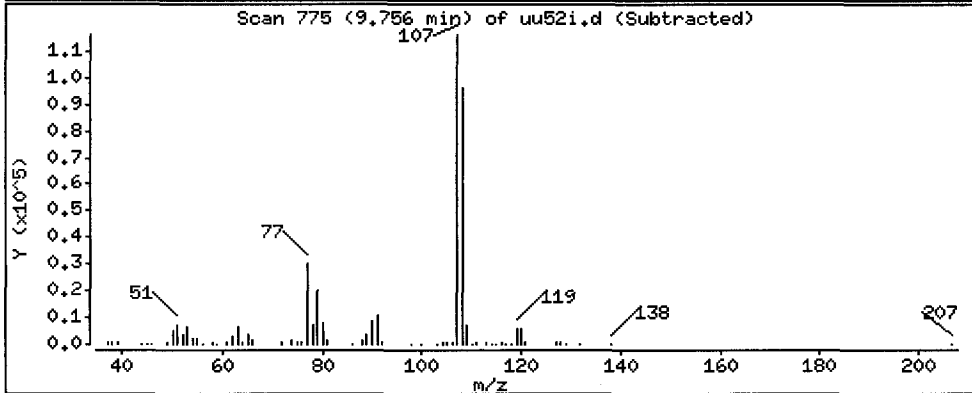
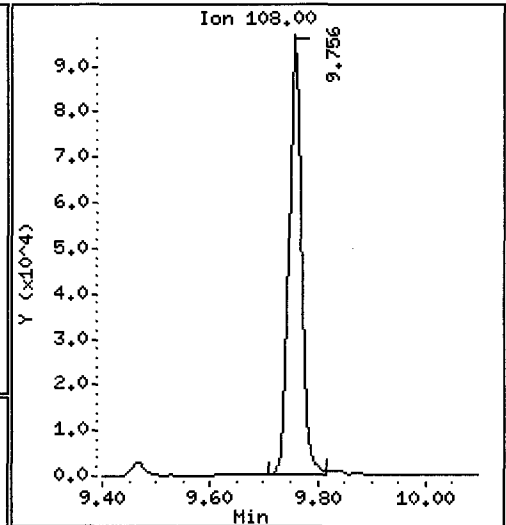
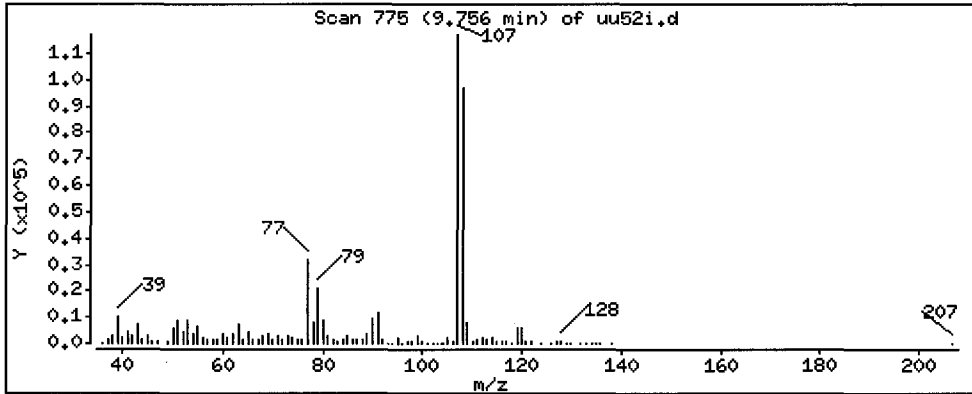
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 611.0 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

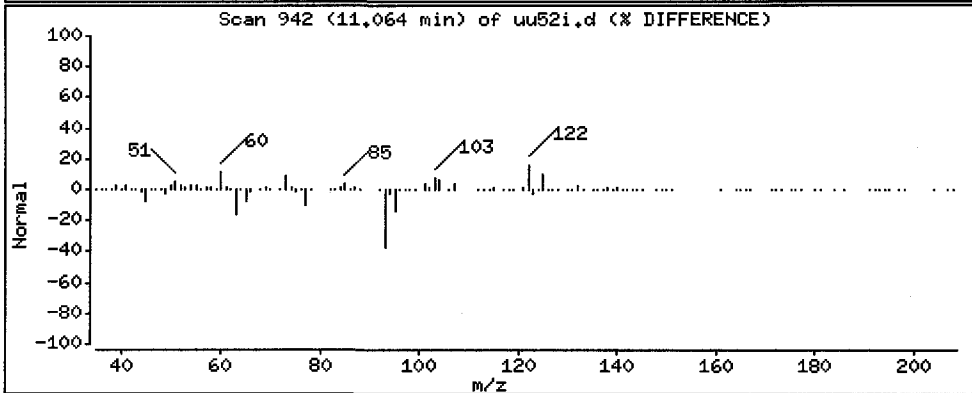
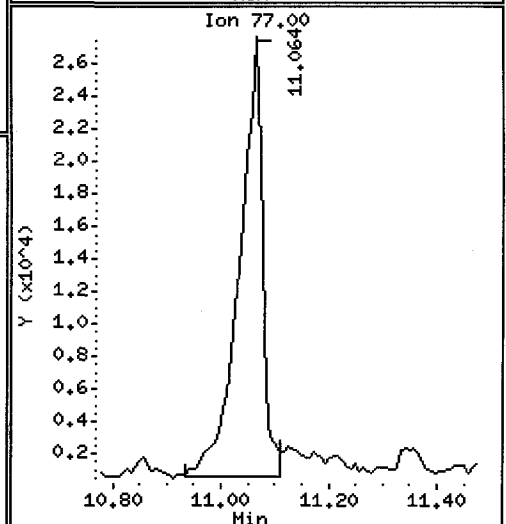
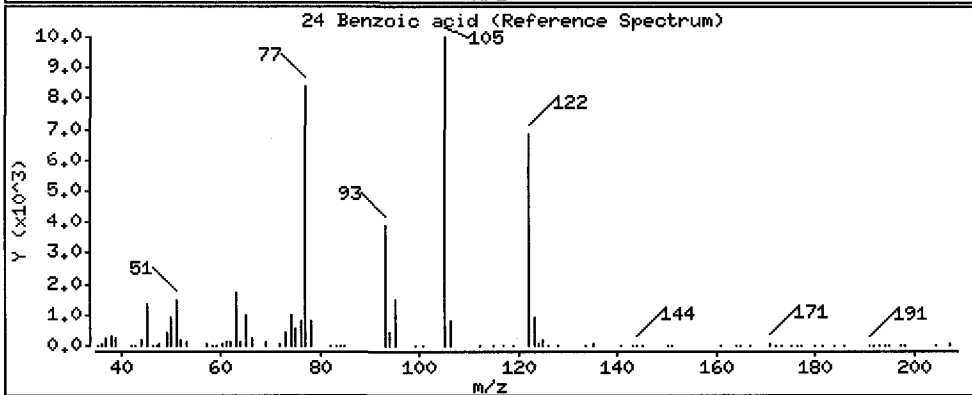
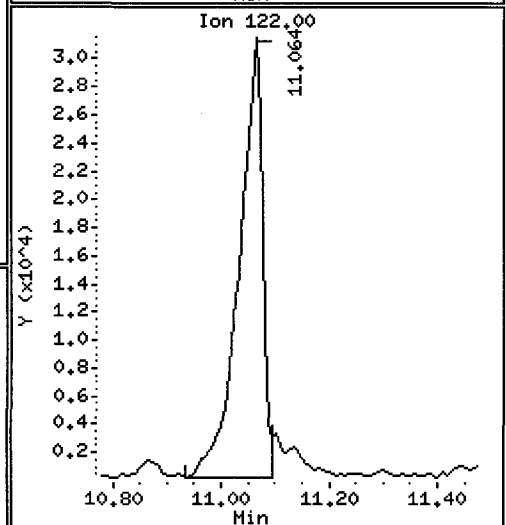
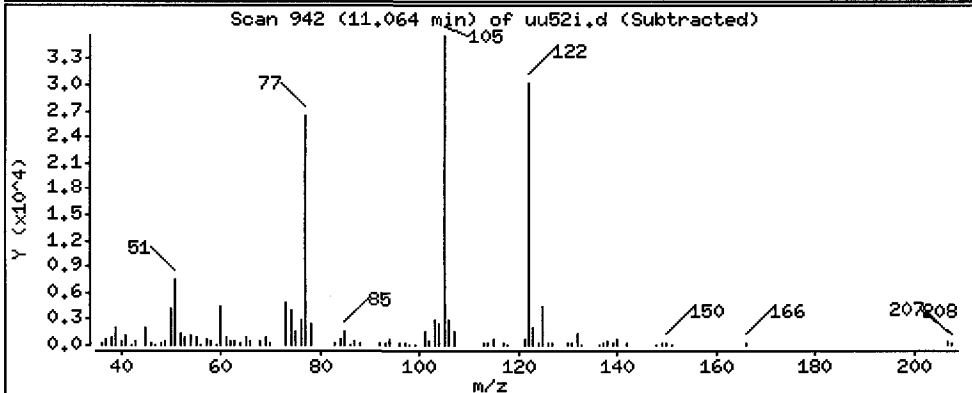
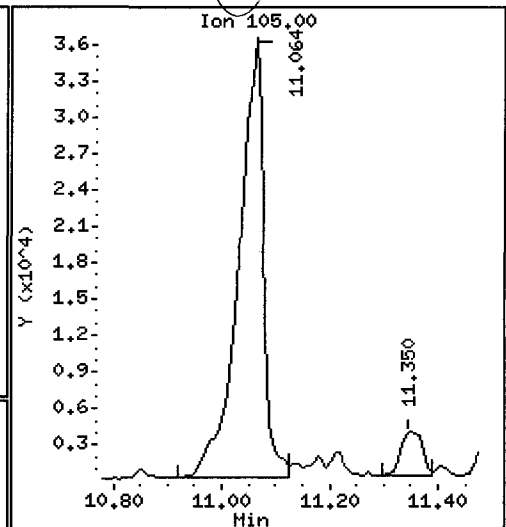
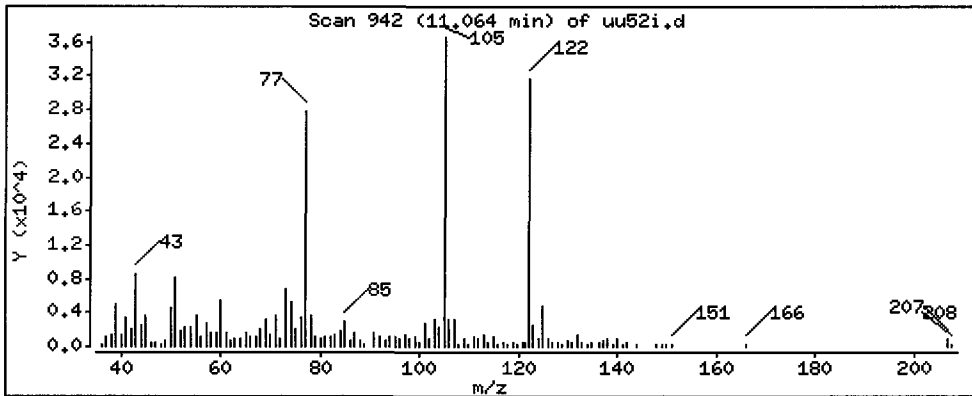
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 744.4 ug/kg

Handwritten initials



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

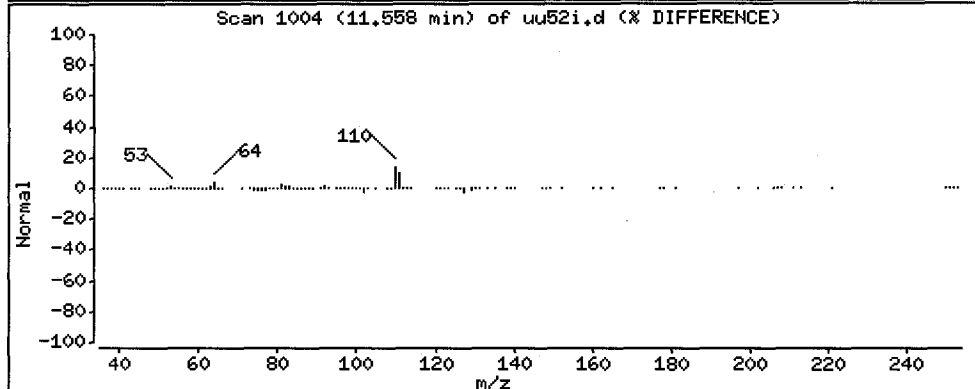
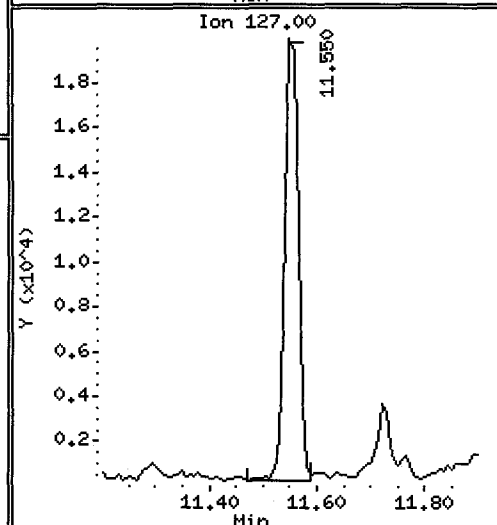
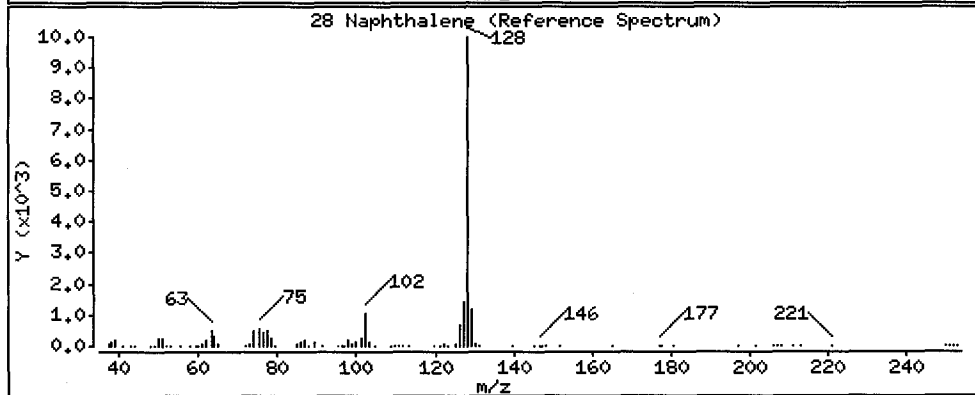
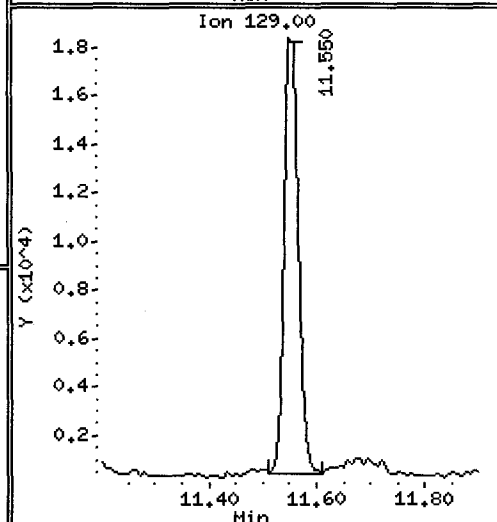
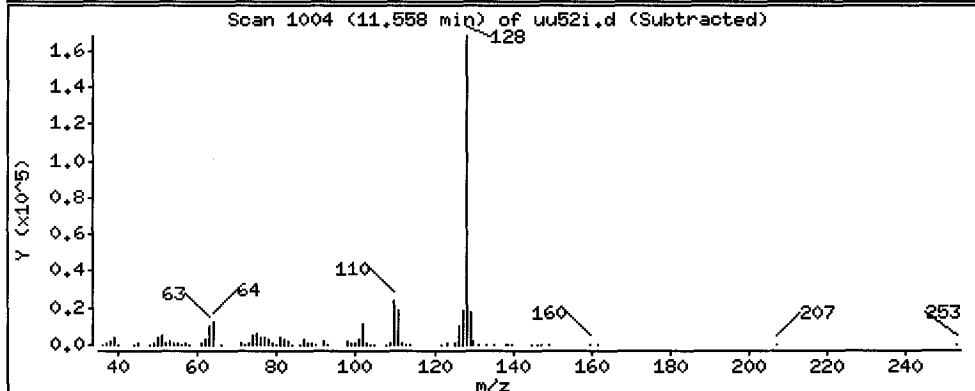
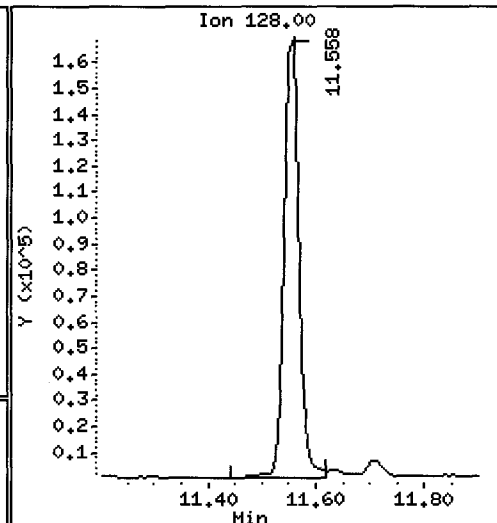
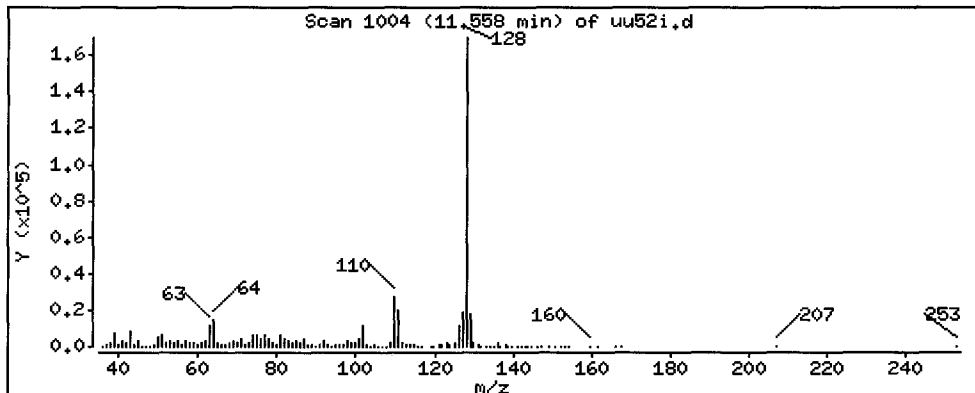
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 457.2 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

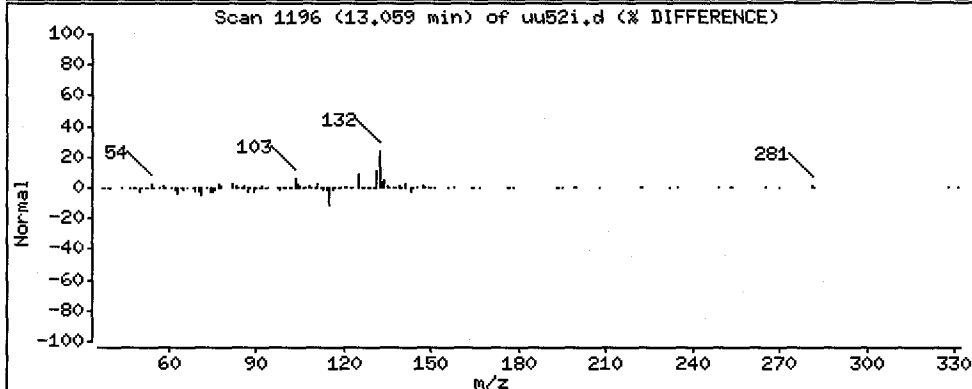
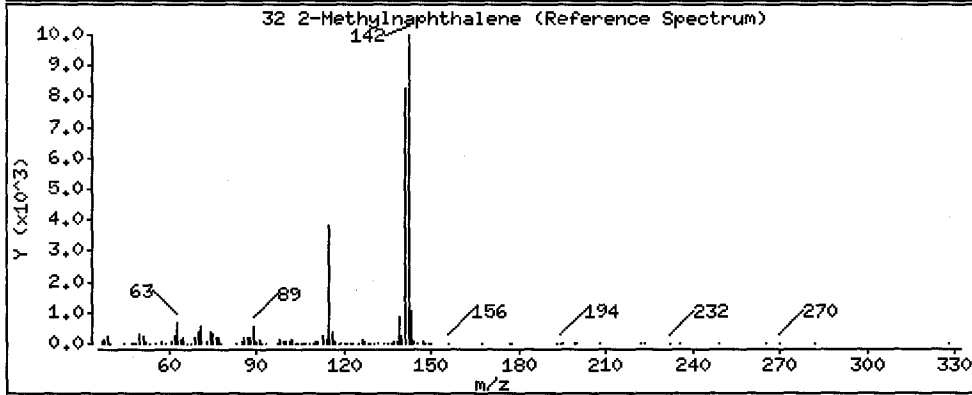
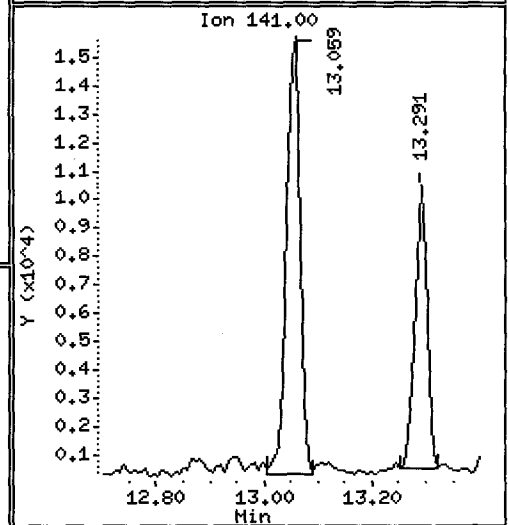
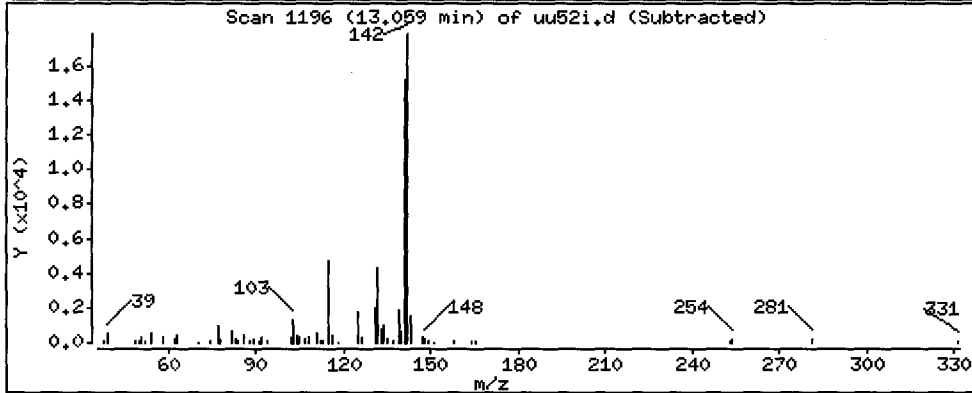
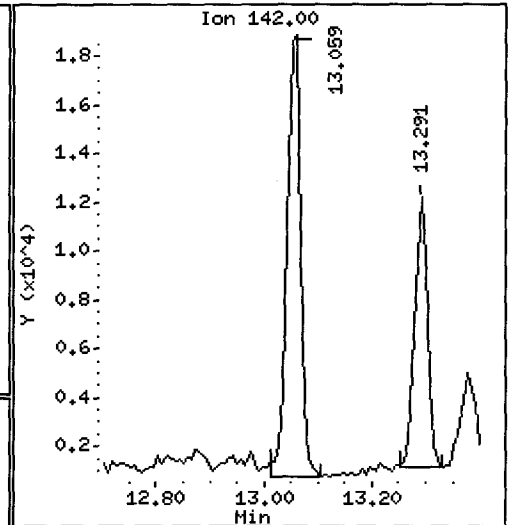
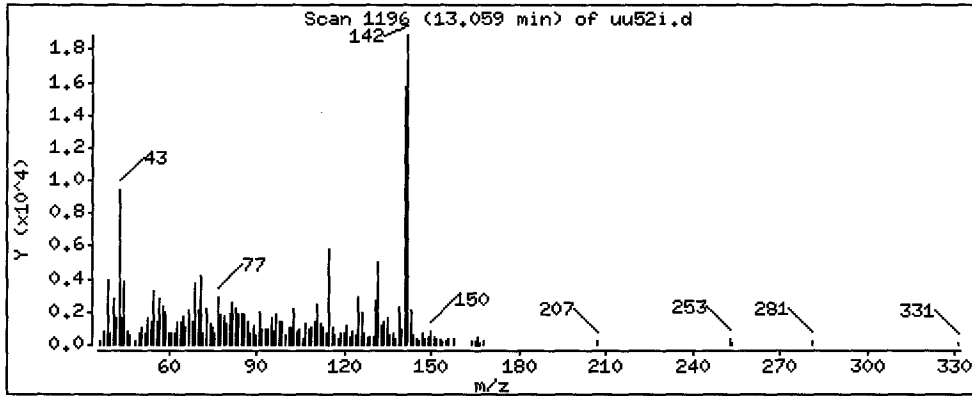
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 65.42 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

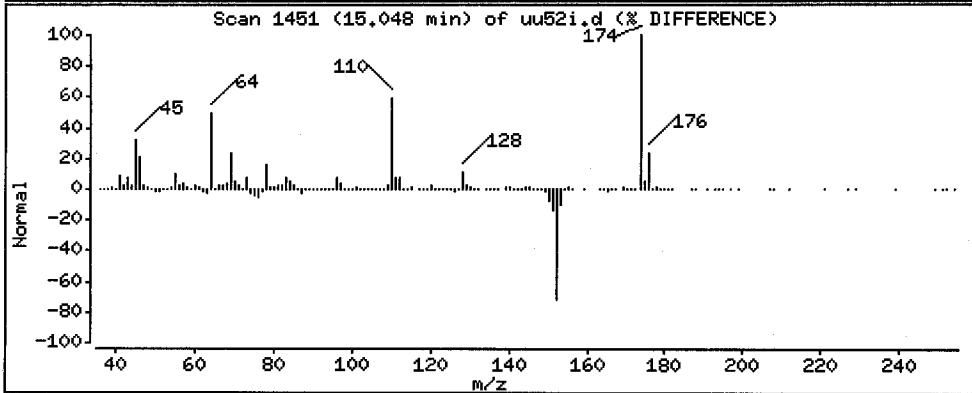
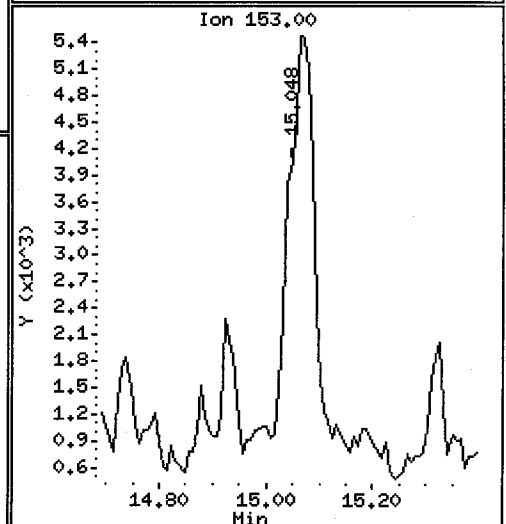
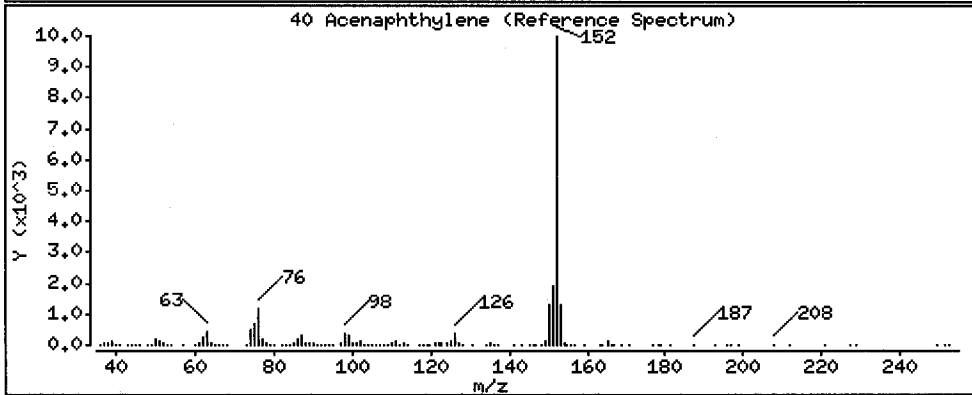
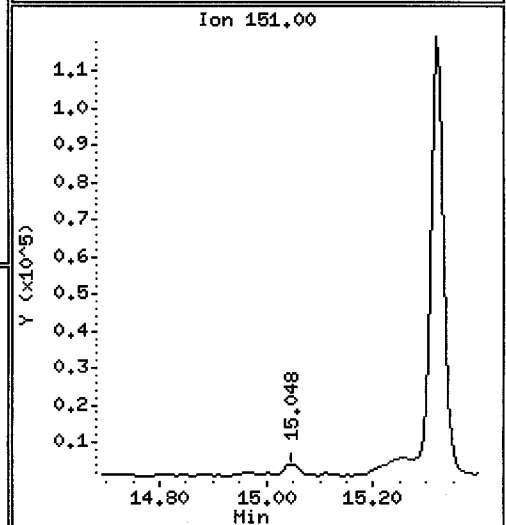
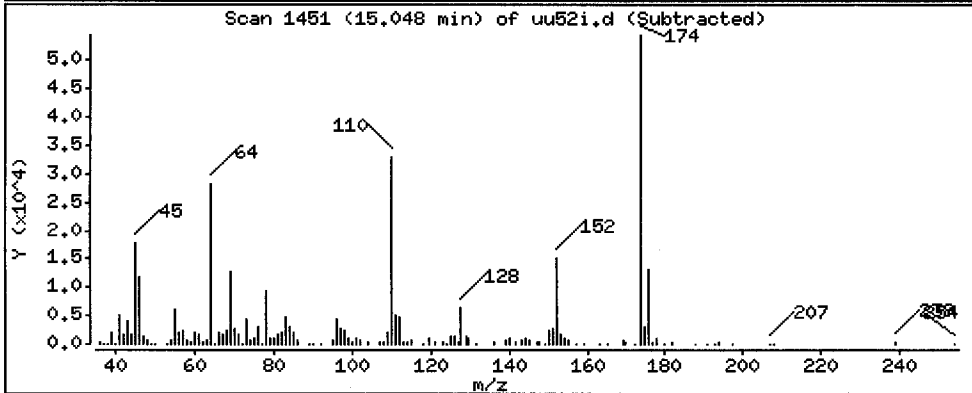
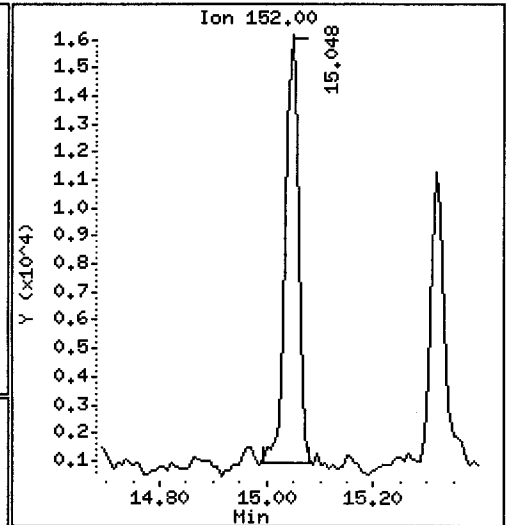
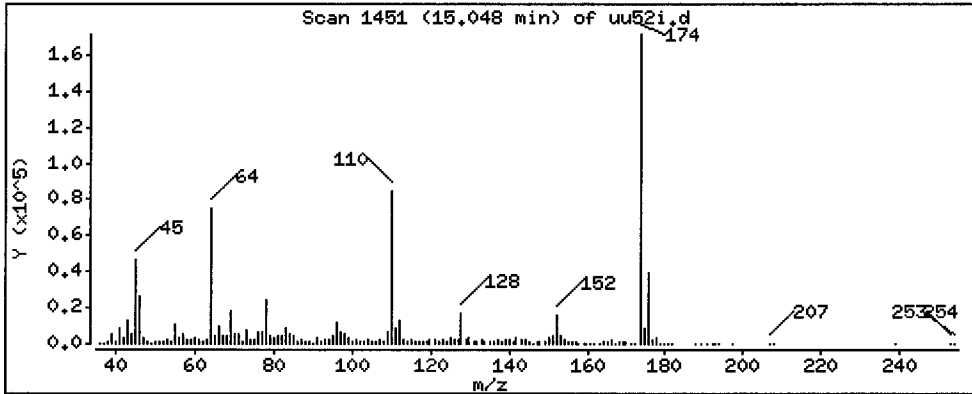
Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 38.94 ug/kg

EARL



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

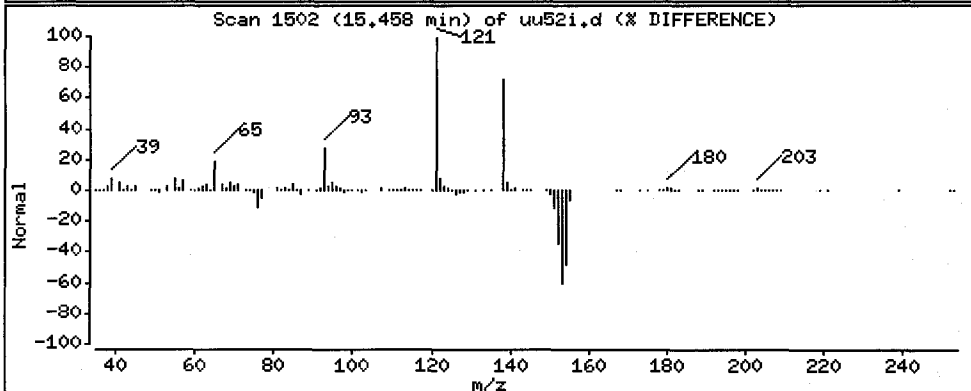
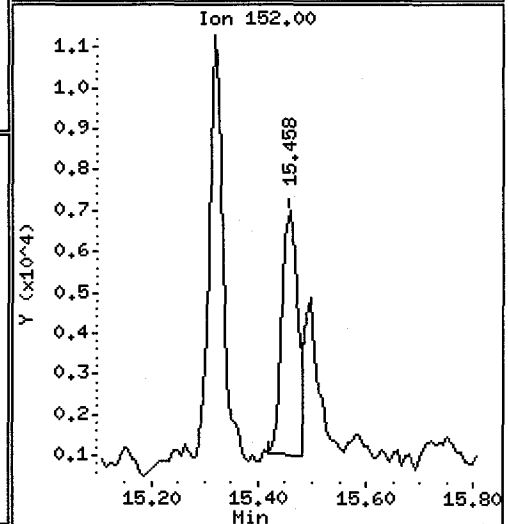
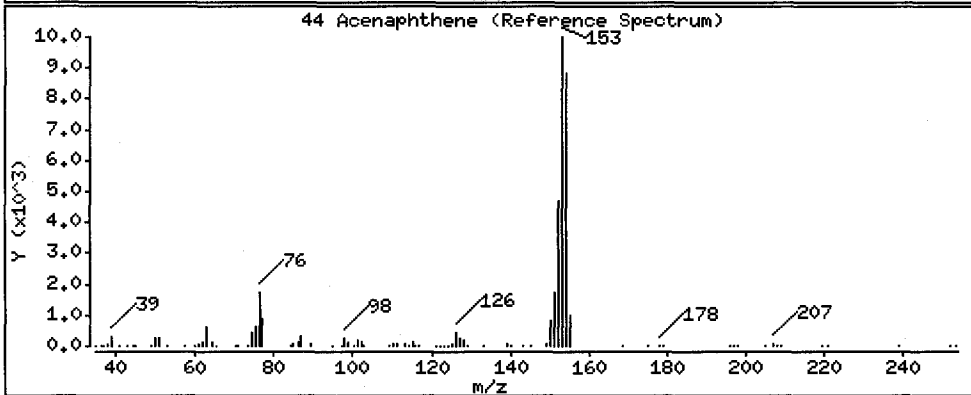
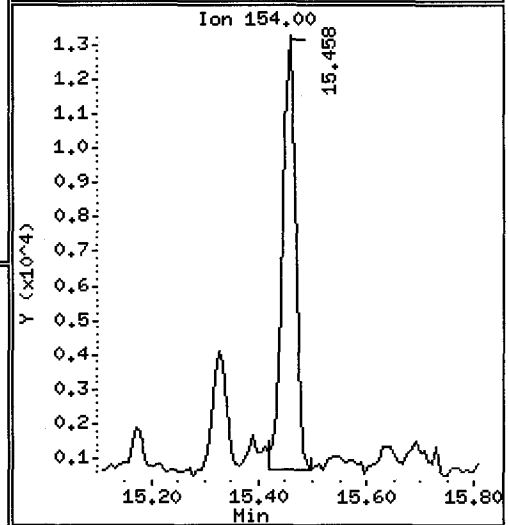
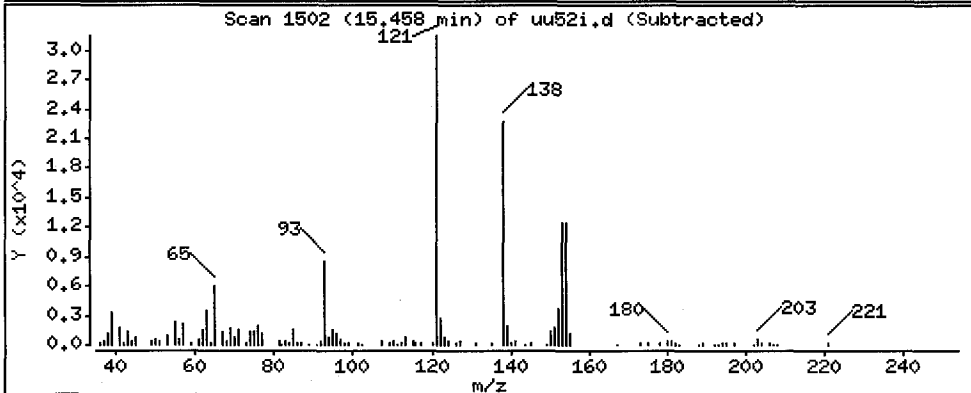
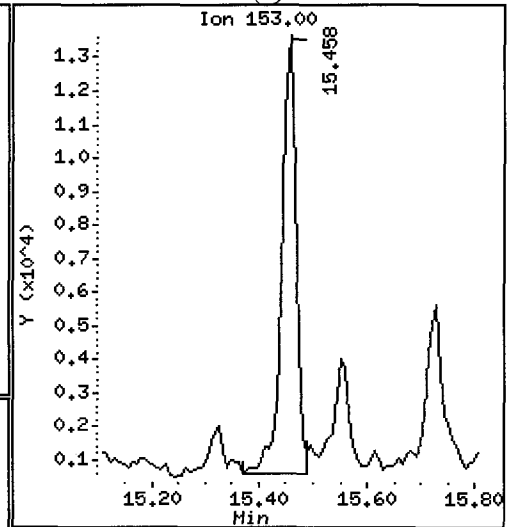
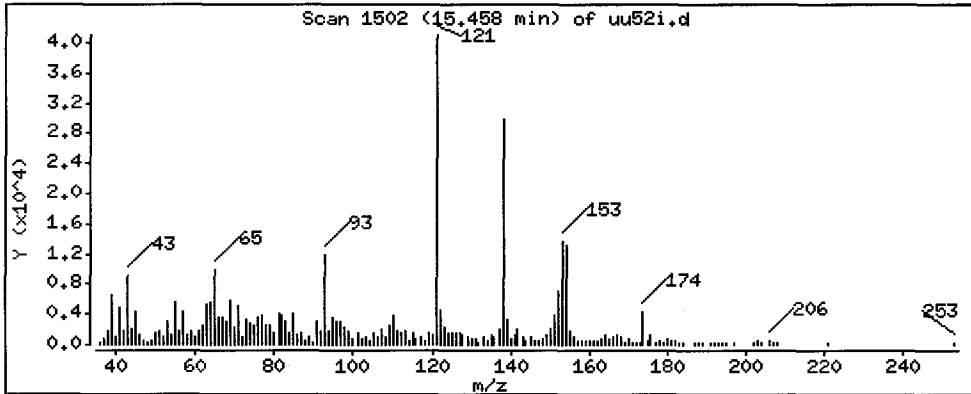
Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 57.30 ug/kg

Handwritten initials: JCR



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

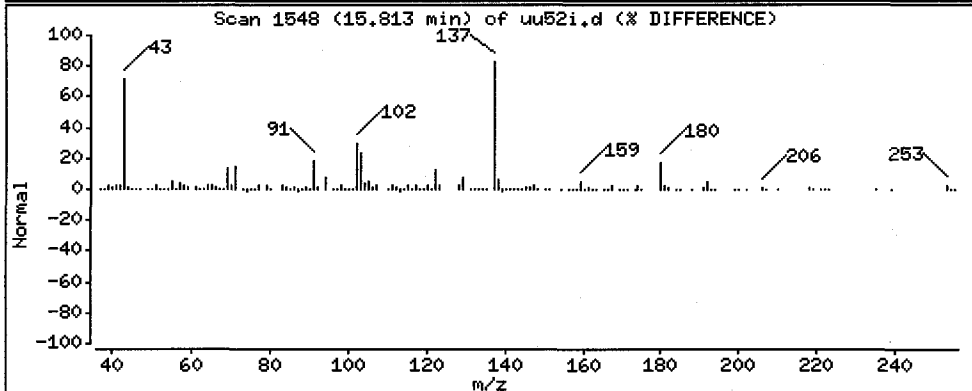
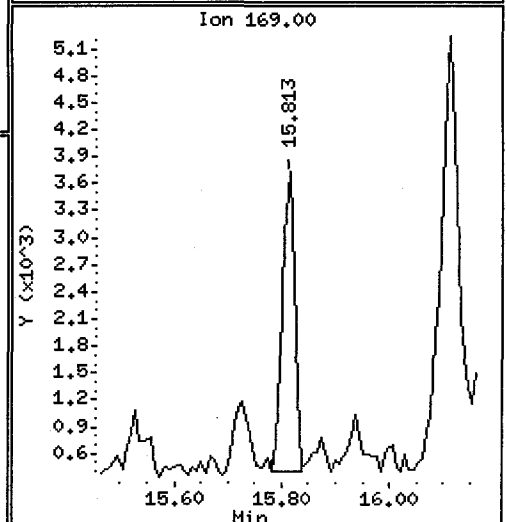
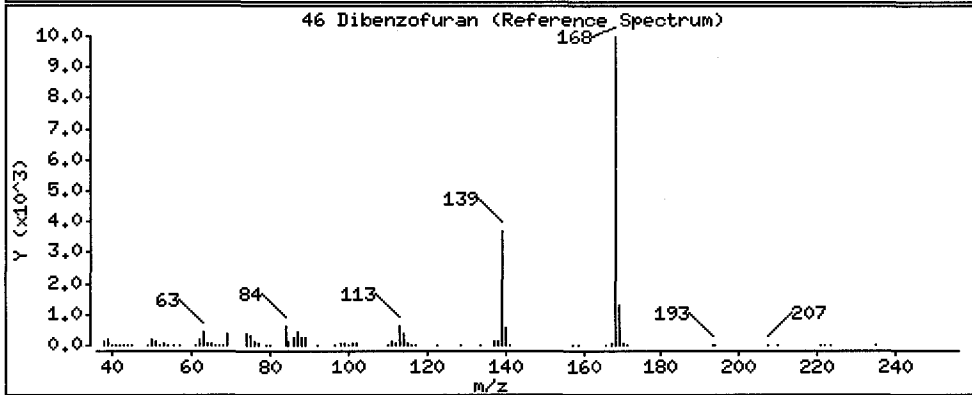
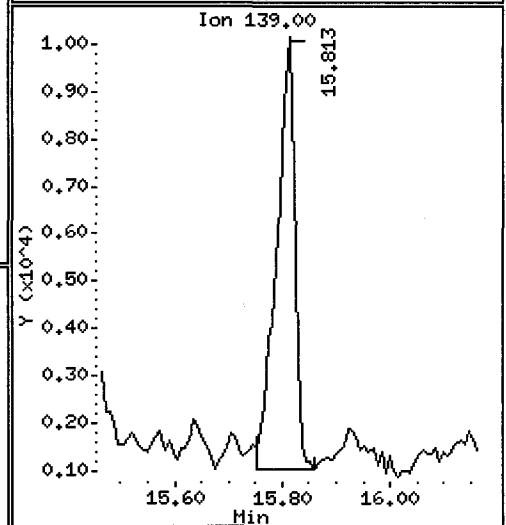
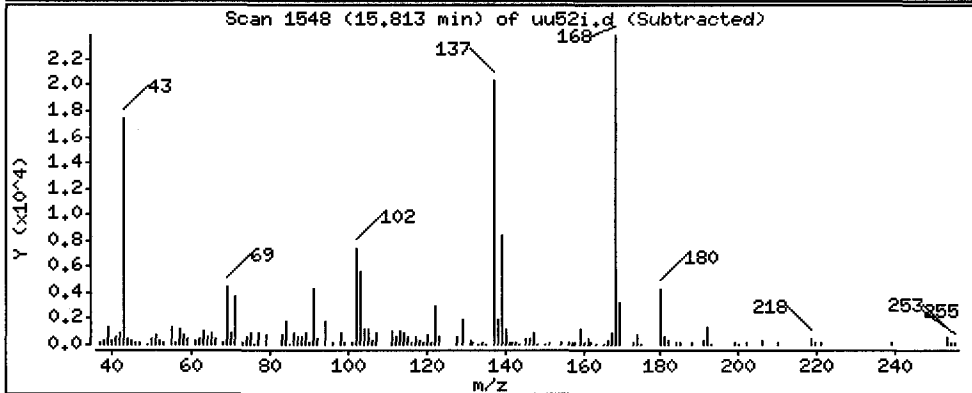
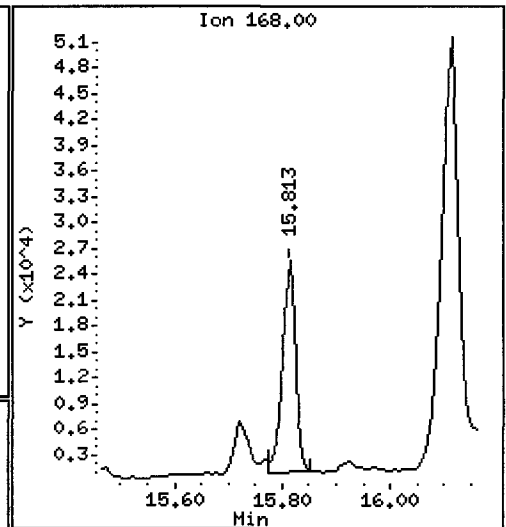
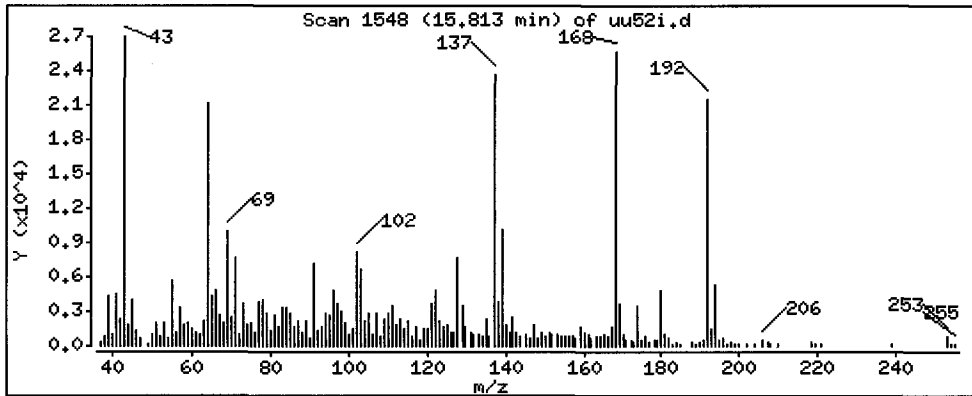
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 68.62 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

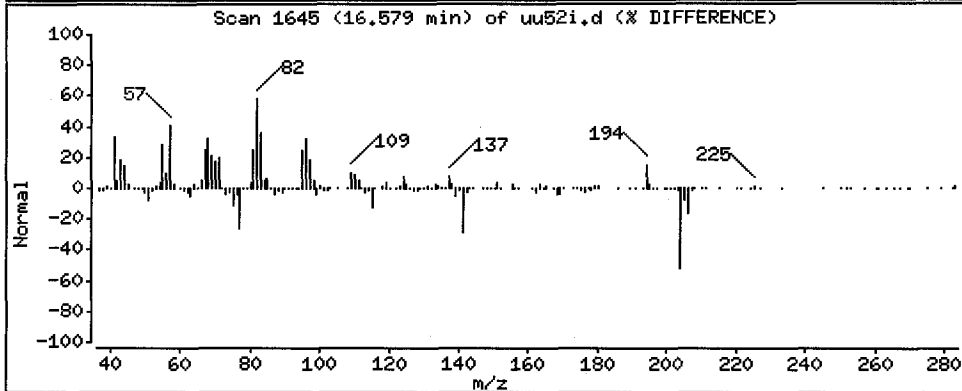
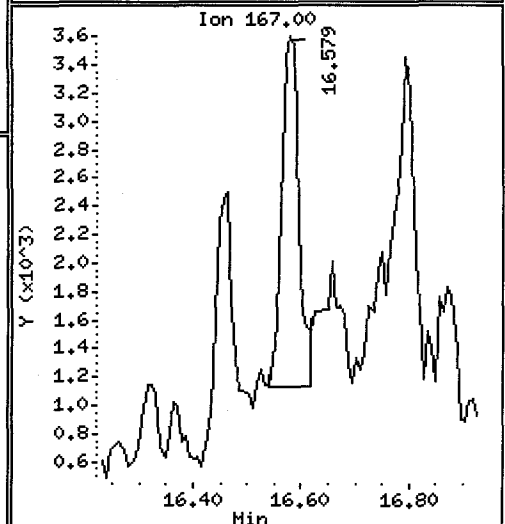
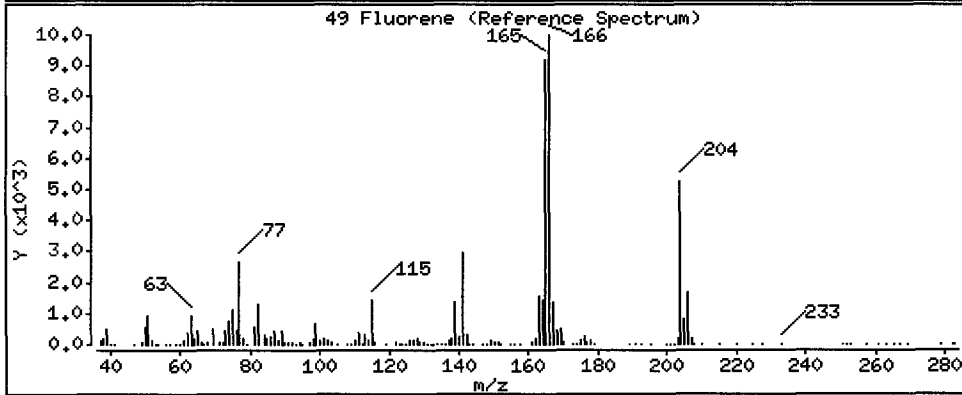
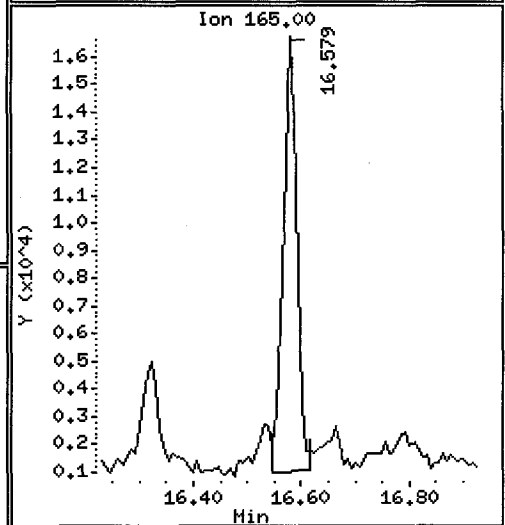
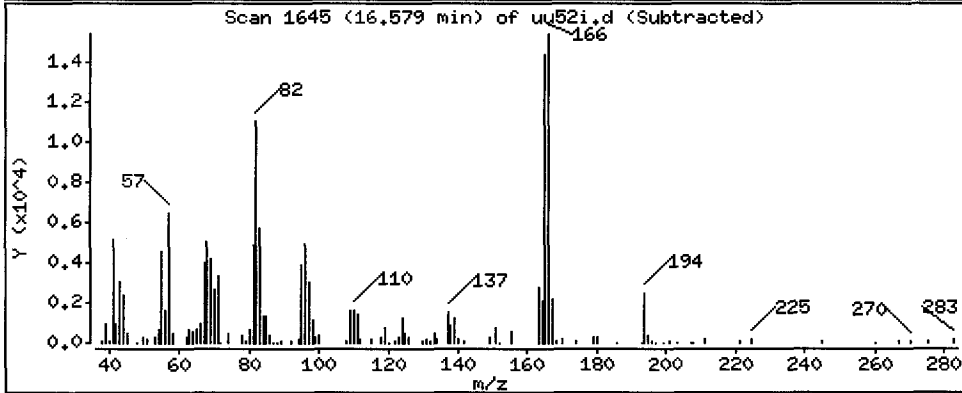
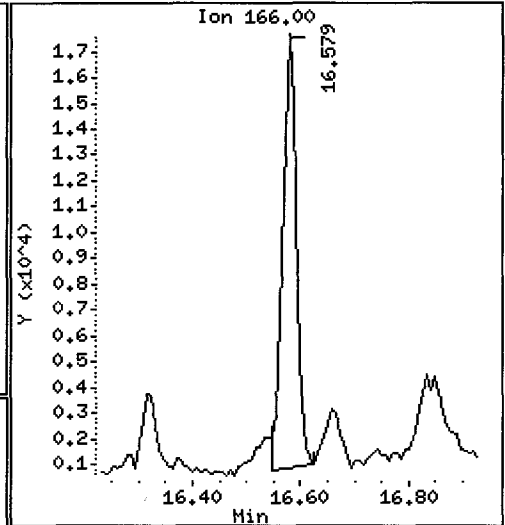
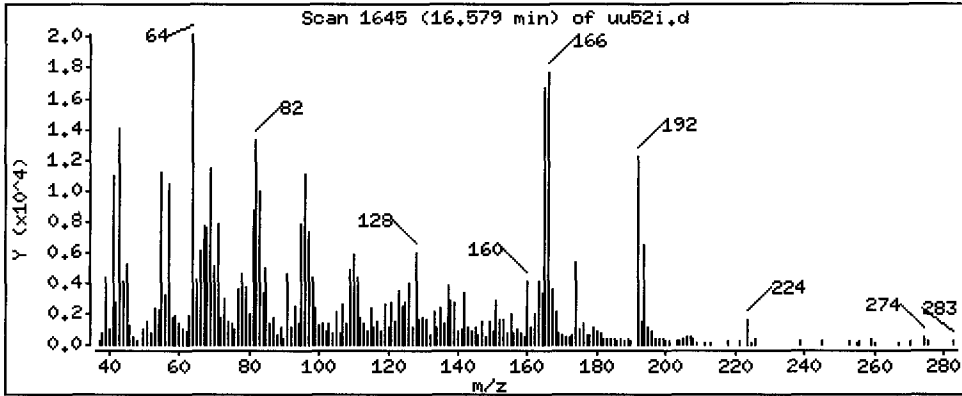
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 66.29 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

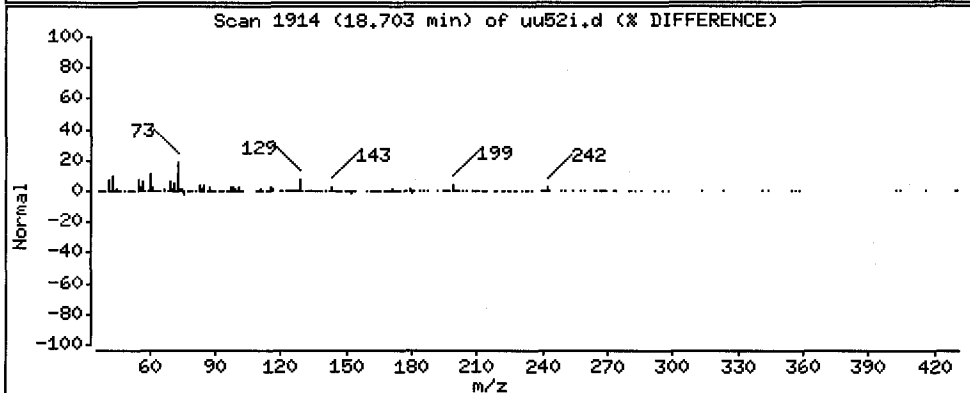
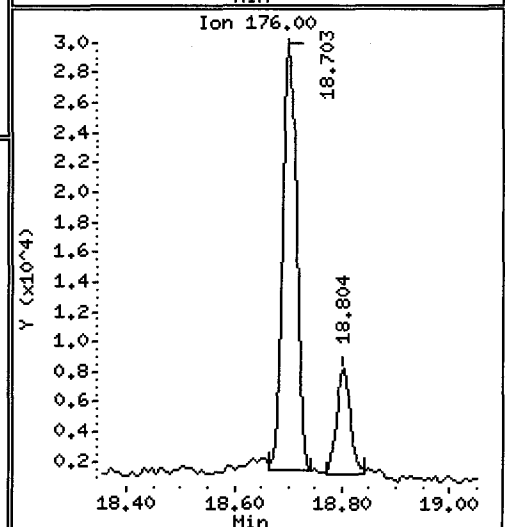
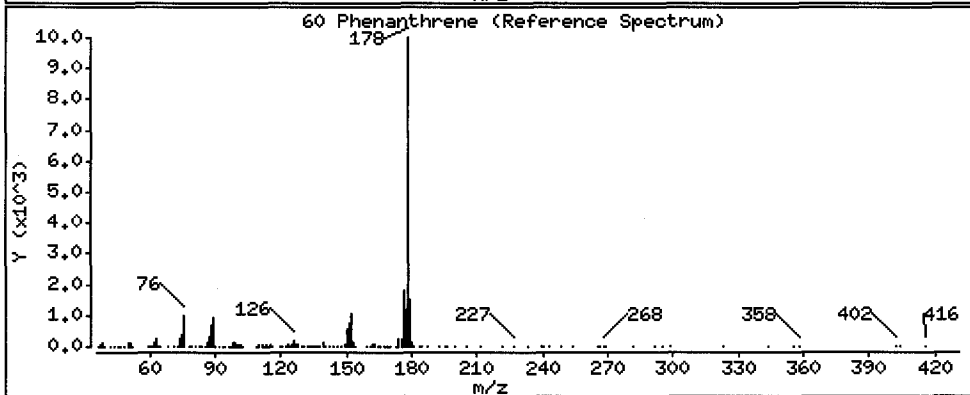
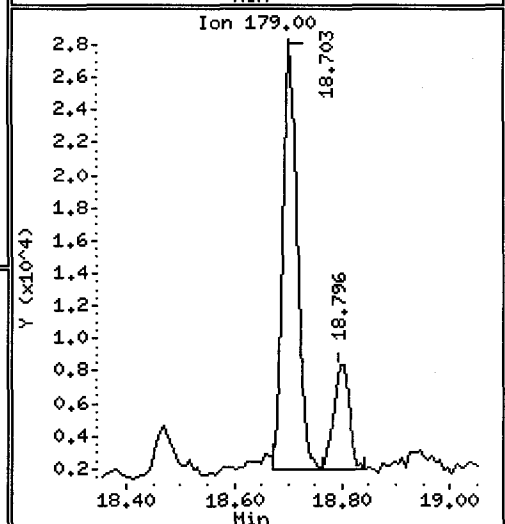
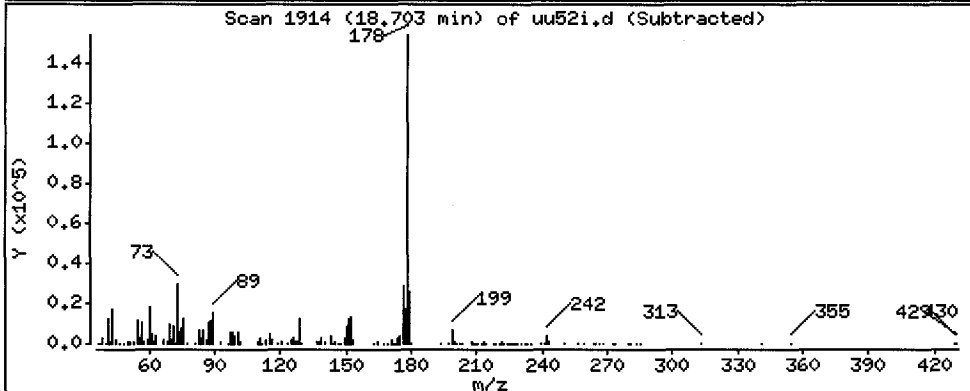
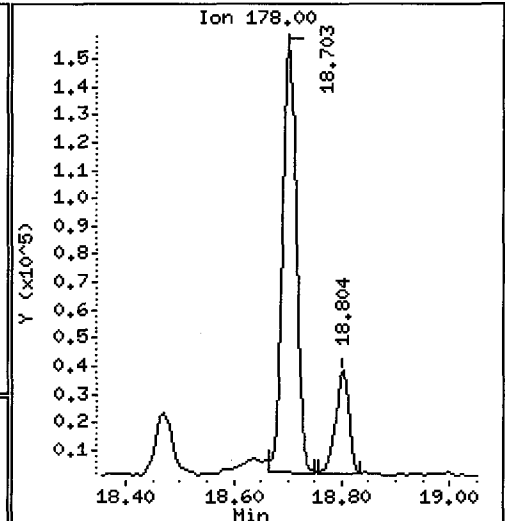
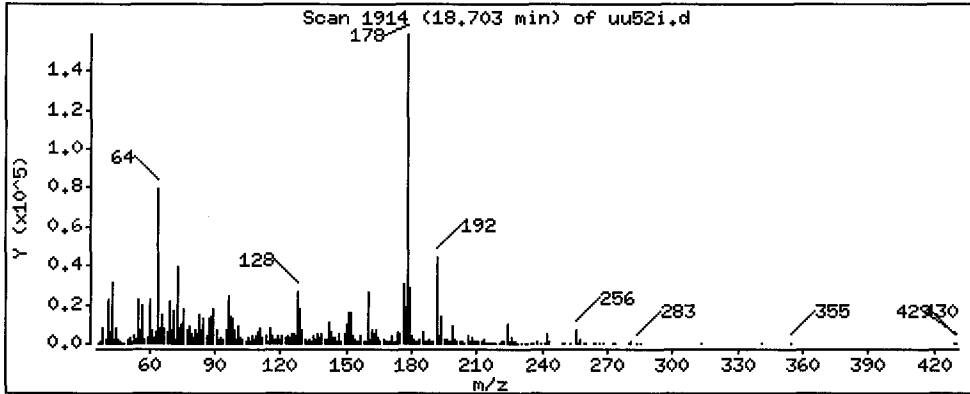
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 482.9 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

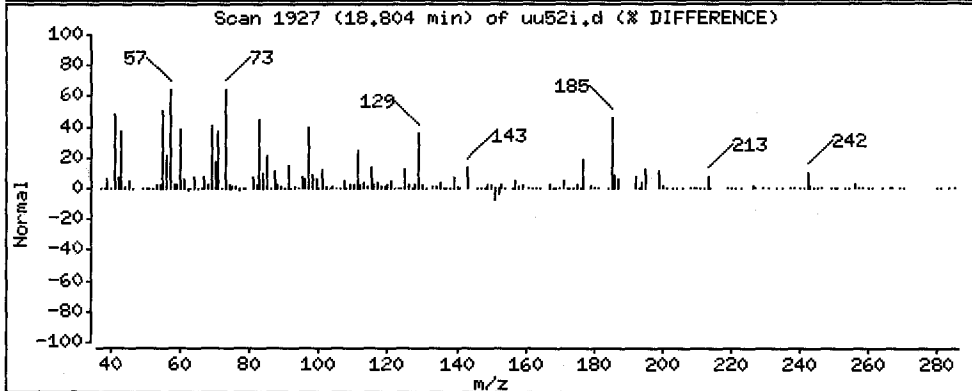
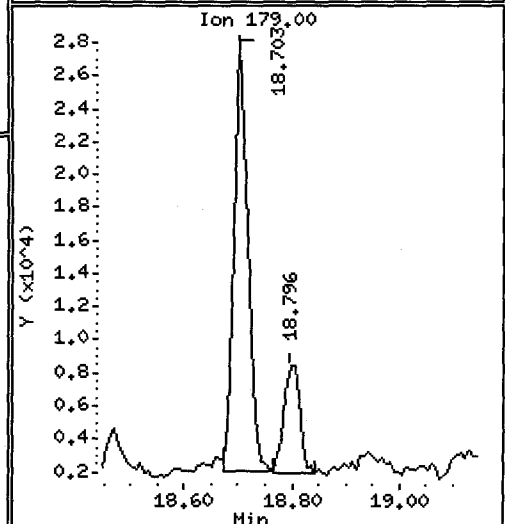
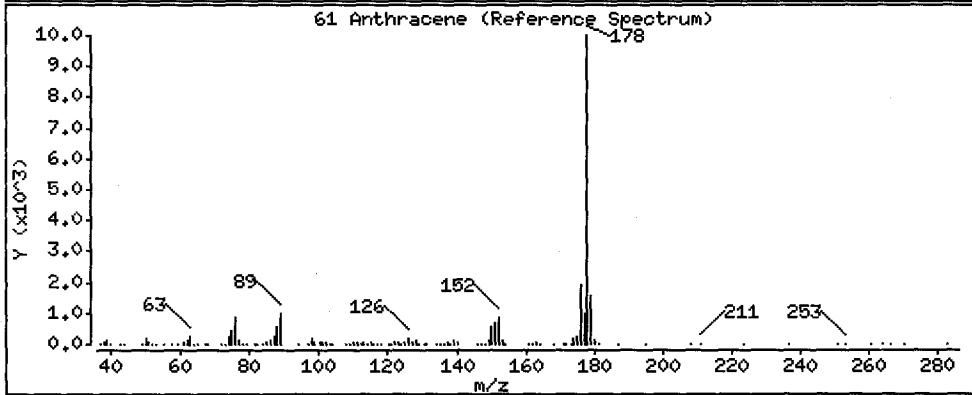
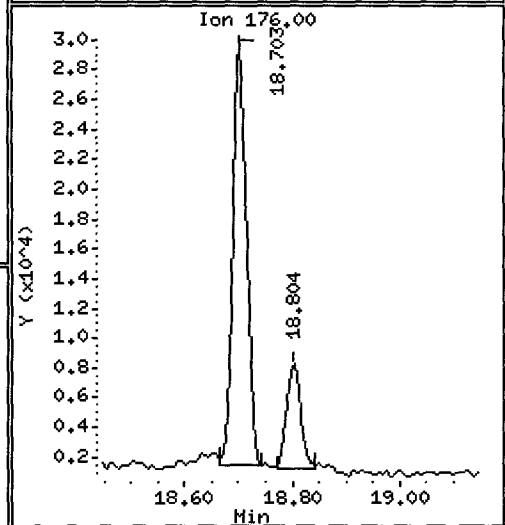
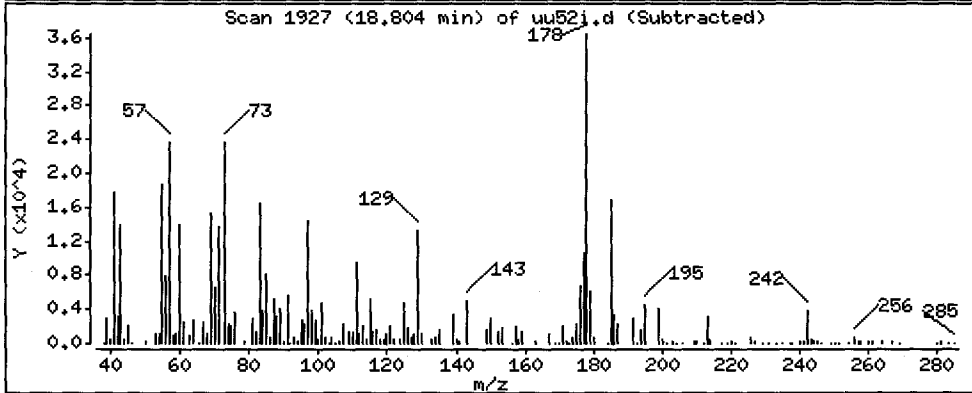
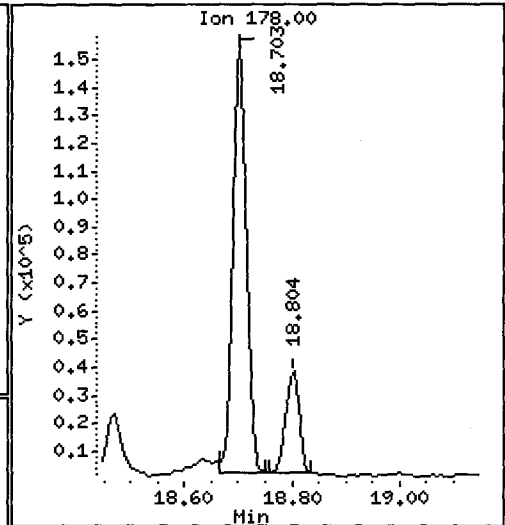
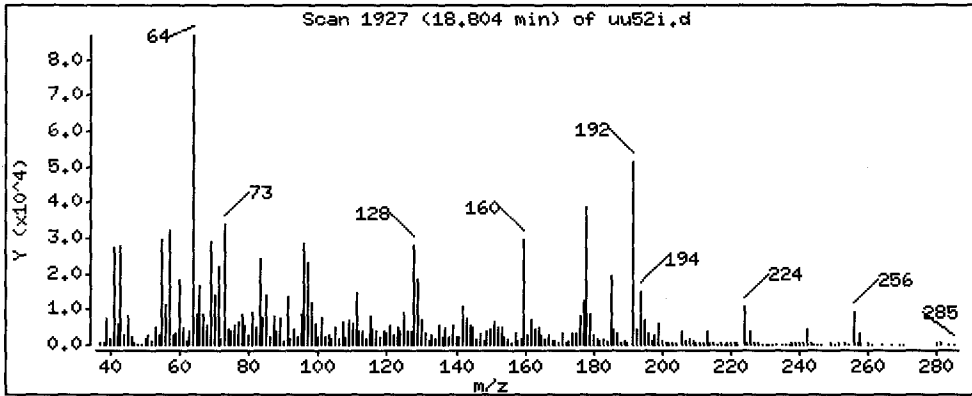
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 113.7 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

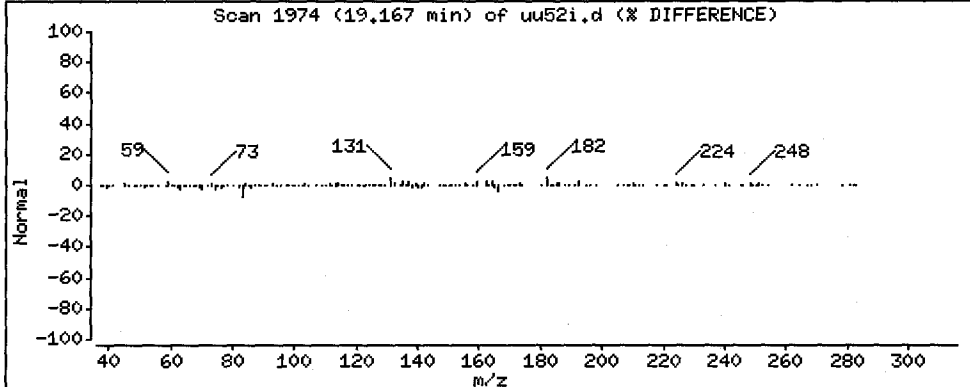
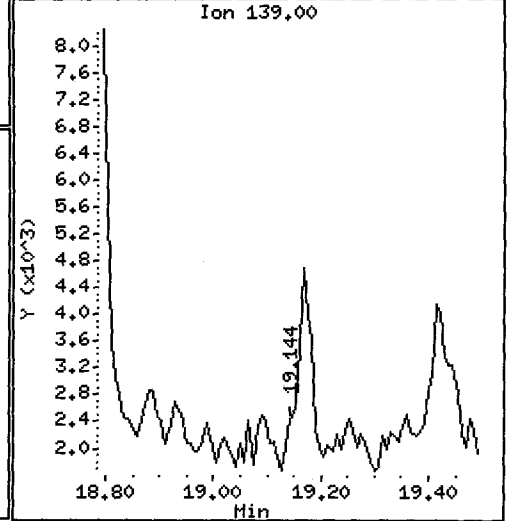
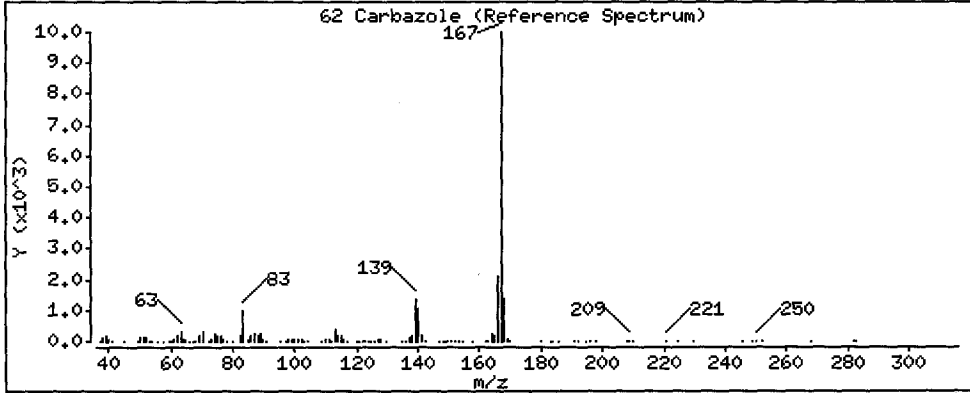
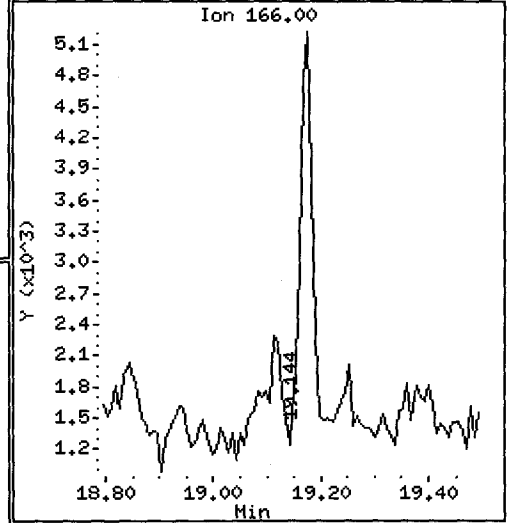
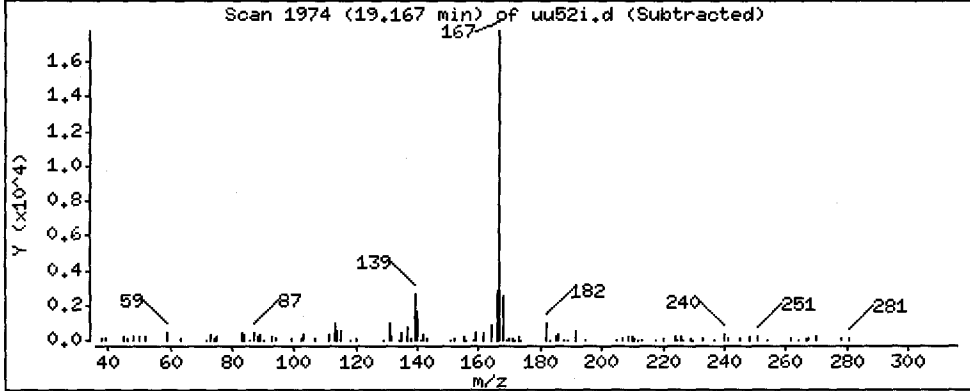
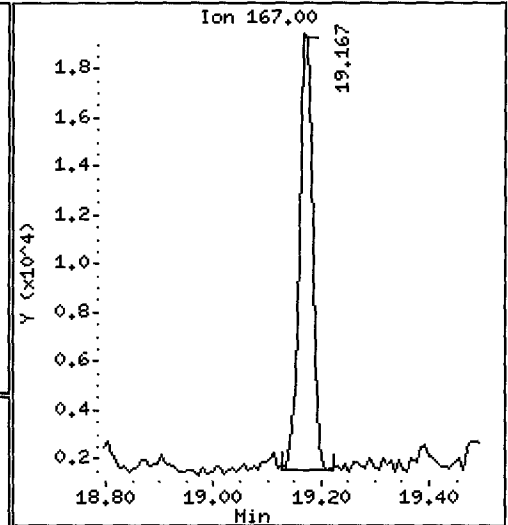
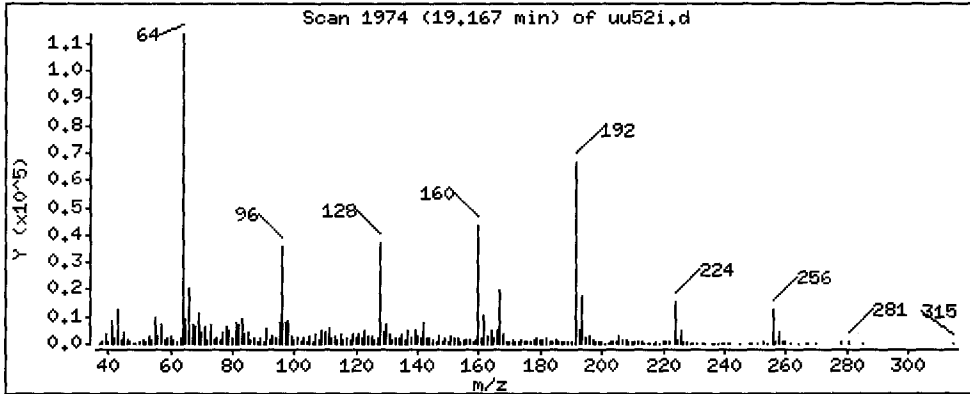
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 61.74 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU521,3

Volume Injected (uL): 1.0

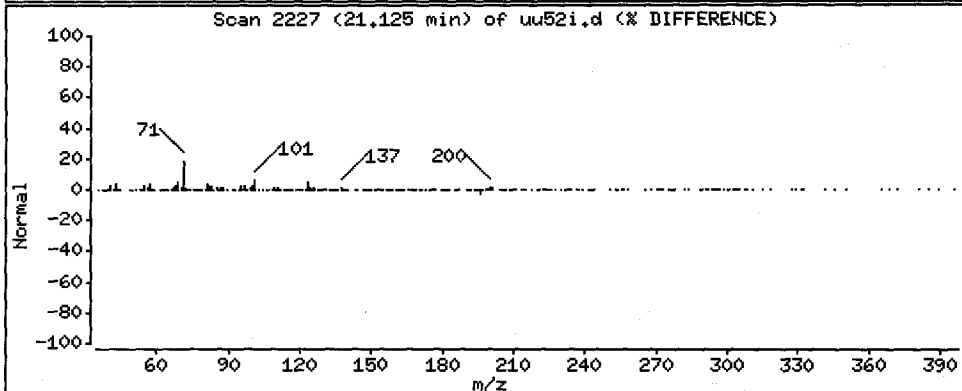
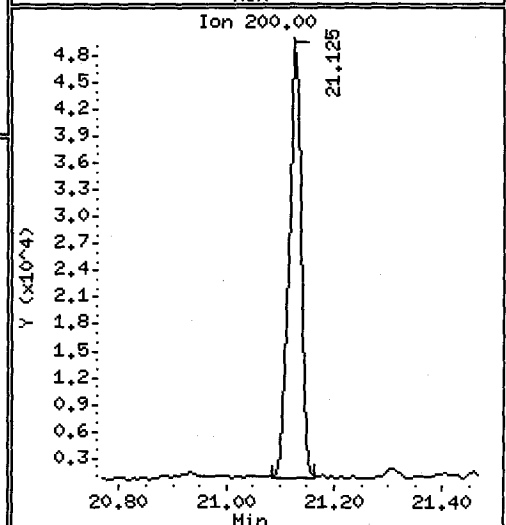
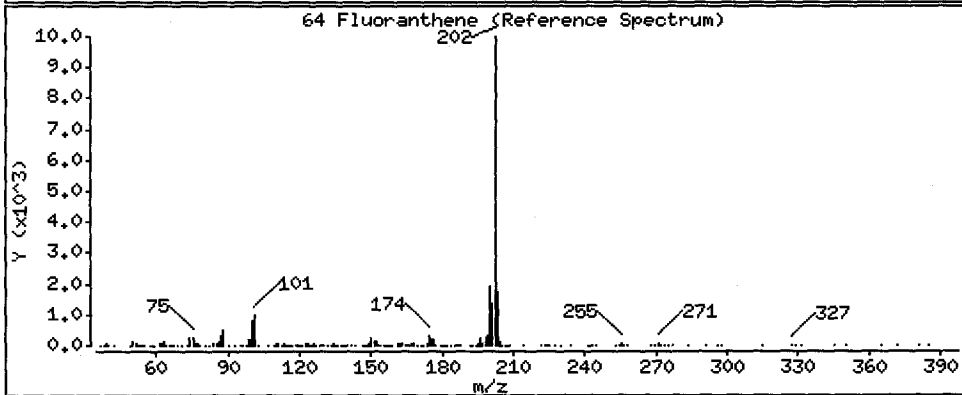
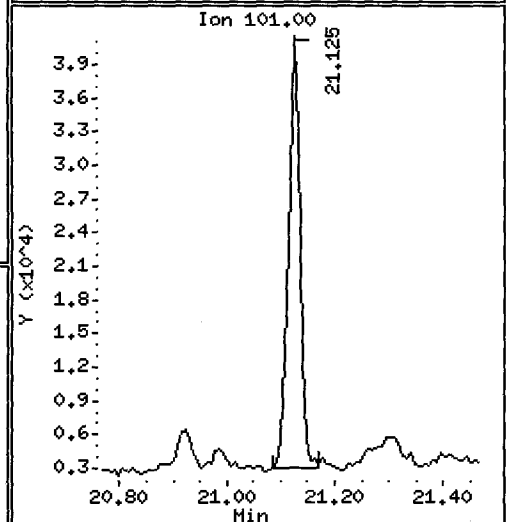
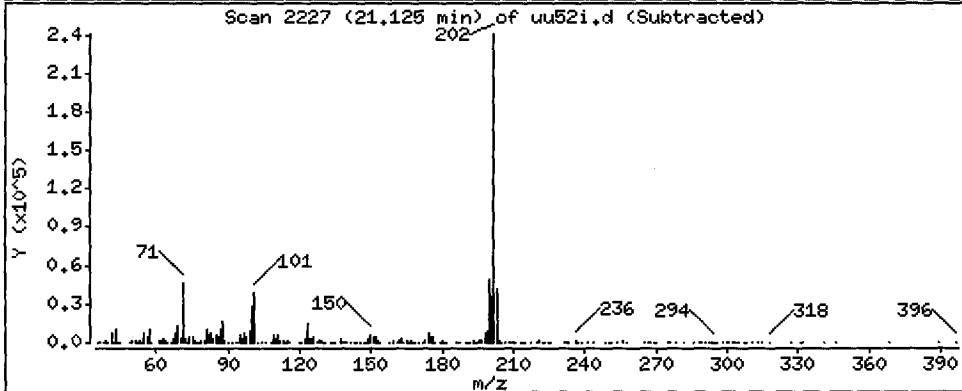
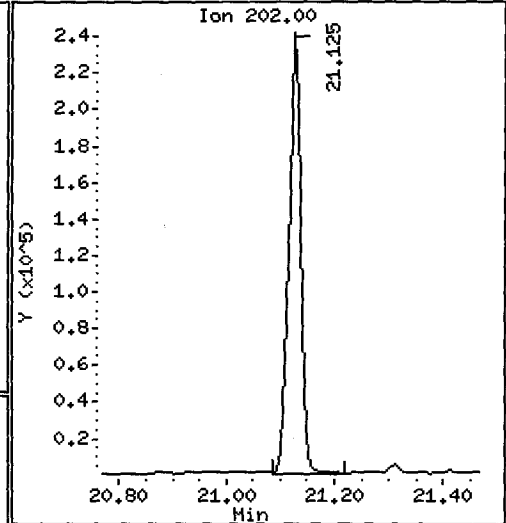
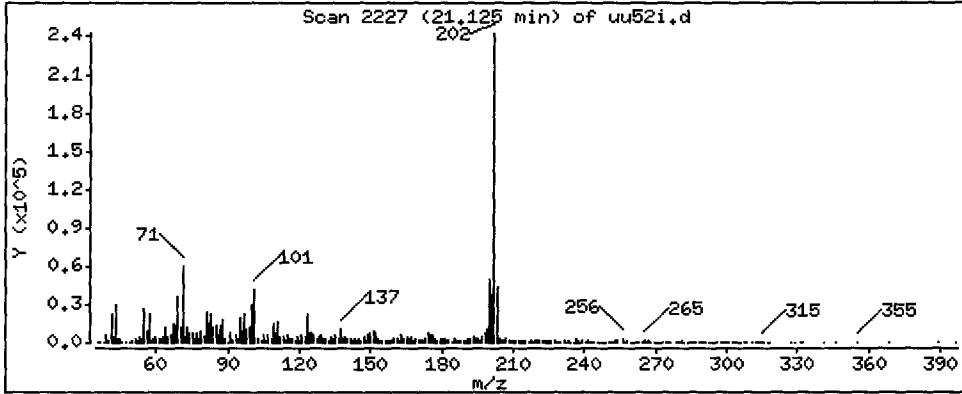
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 595.6 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

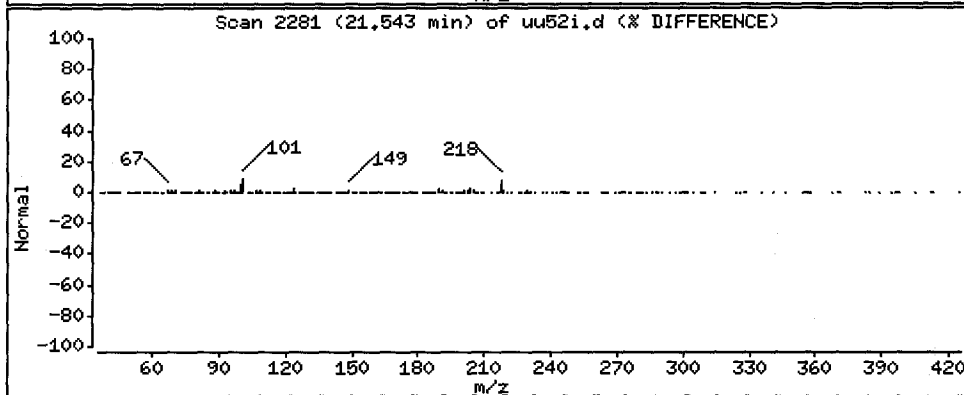
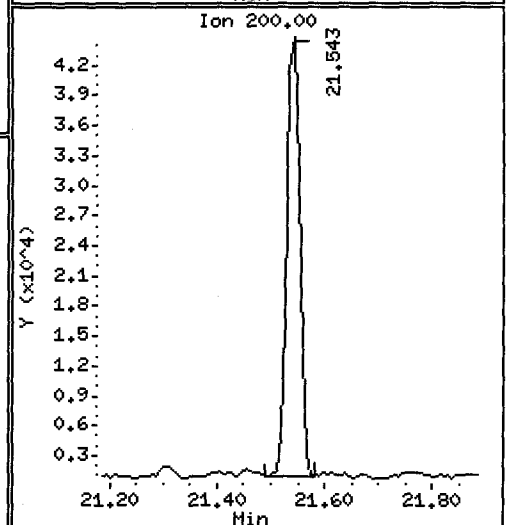
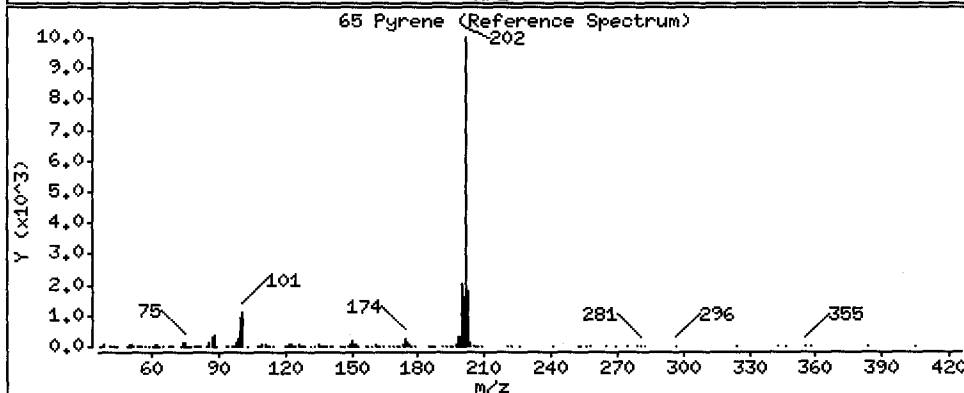
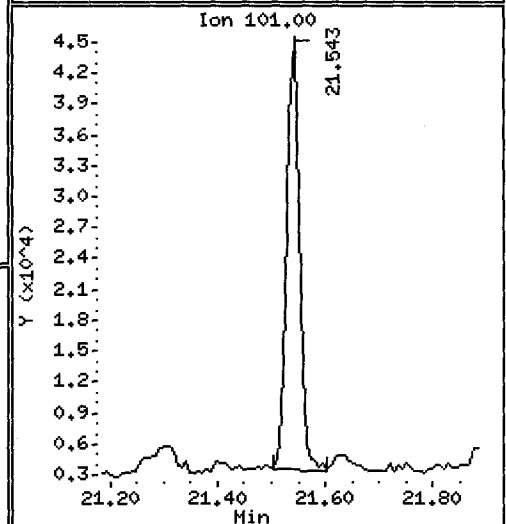
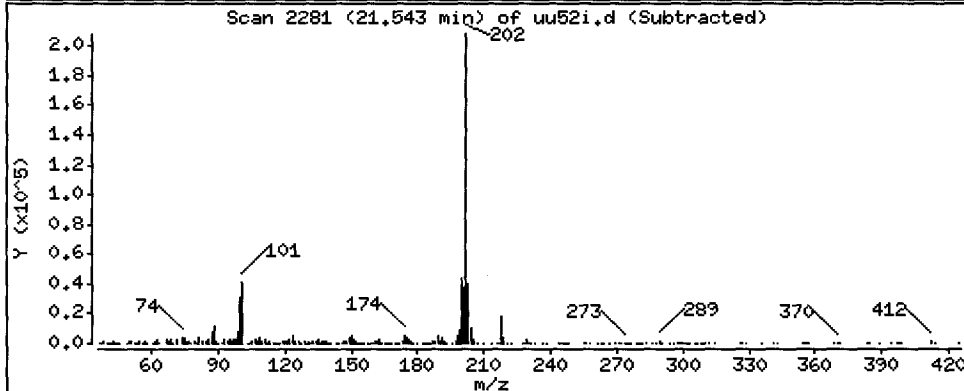
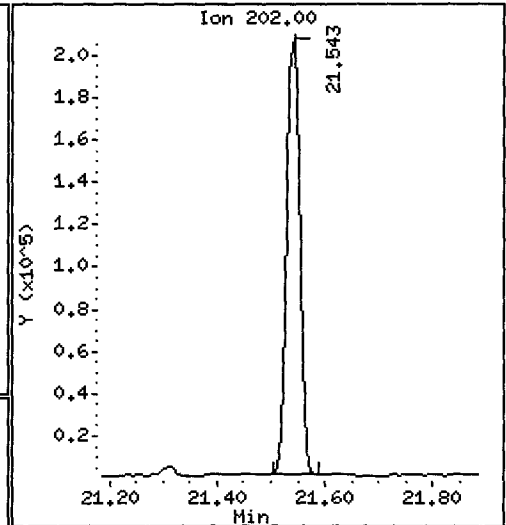
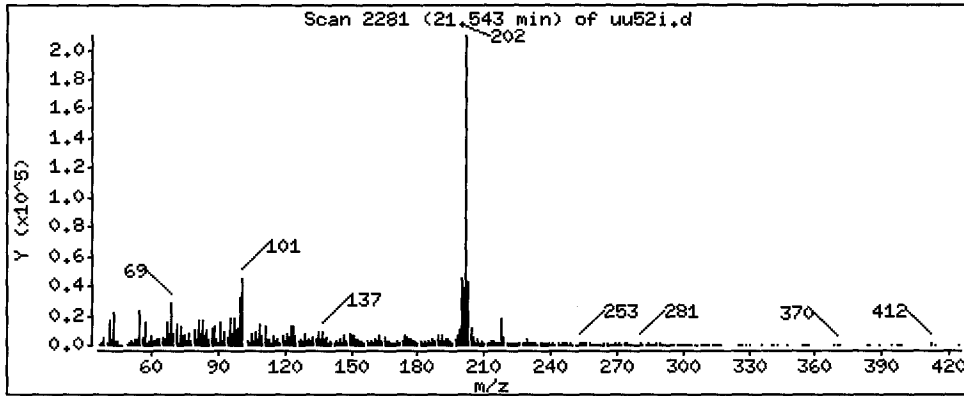
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 458.0 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

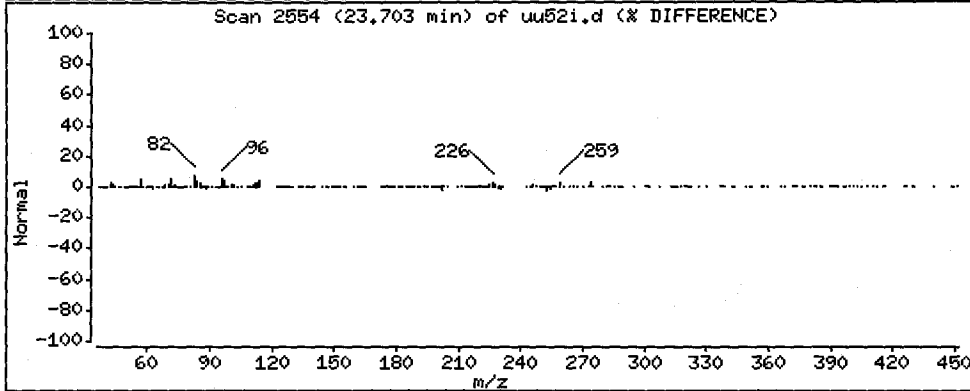
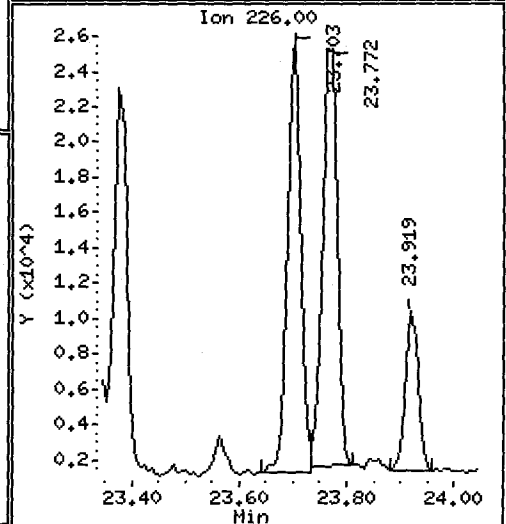
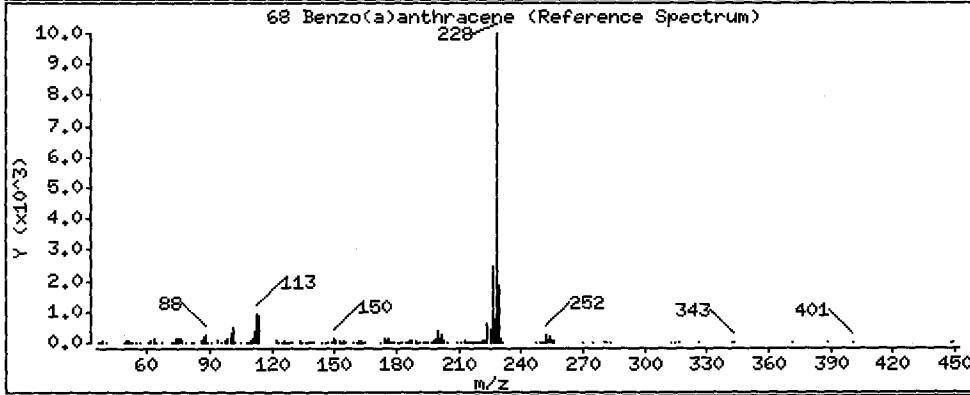
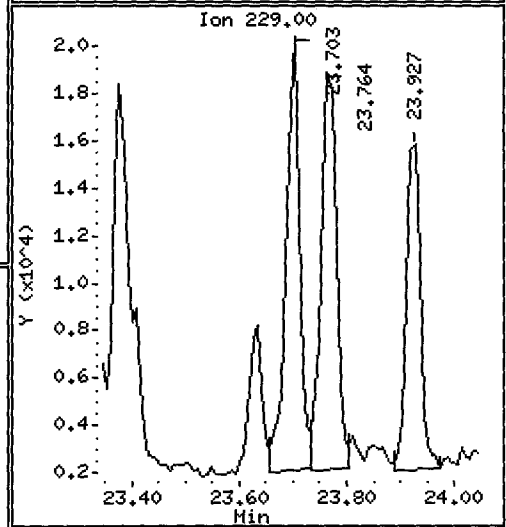
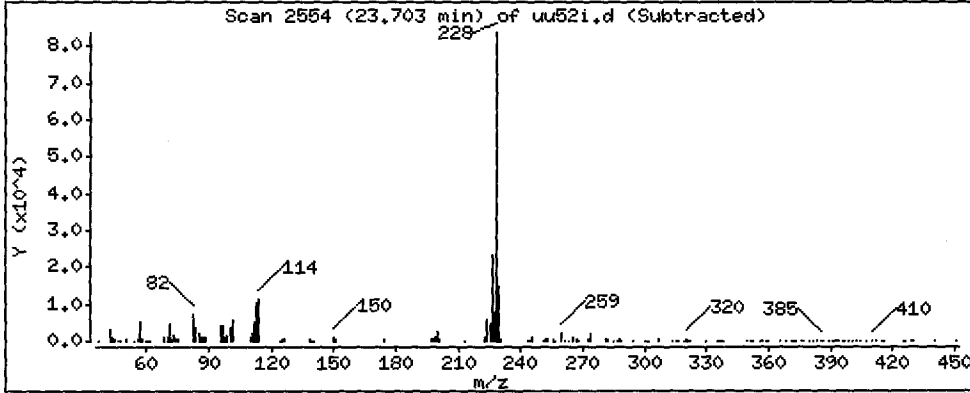
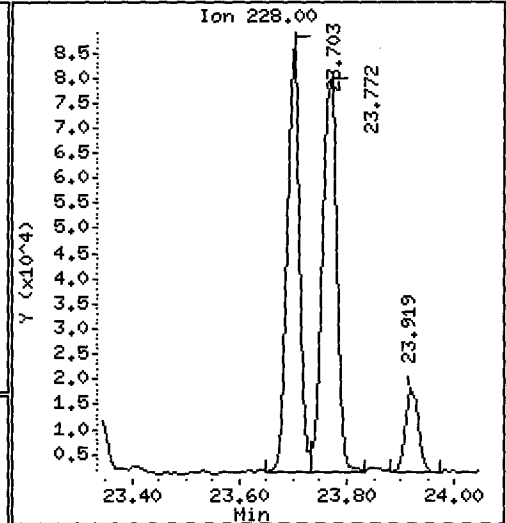
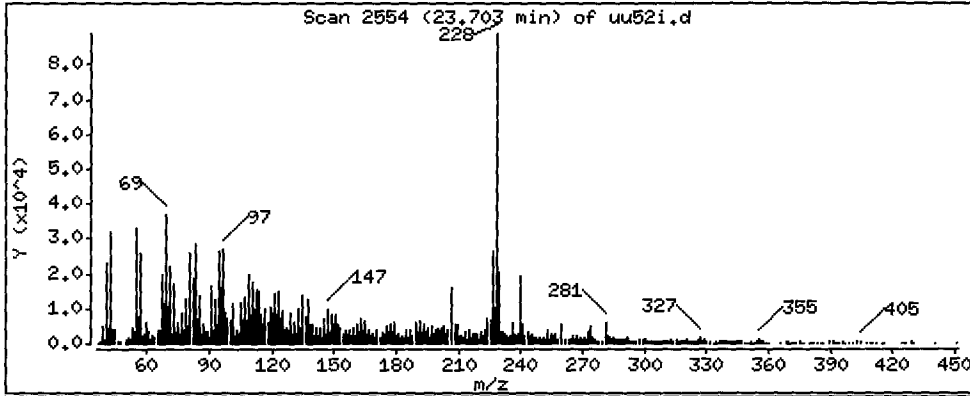
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 194.9 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU521,3

Volume Injected (uL): 1.0

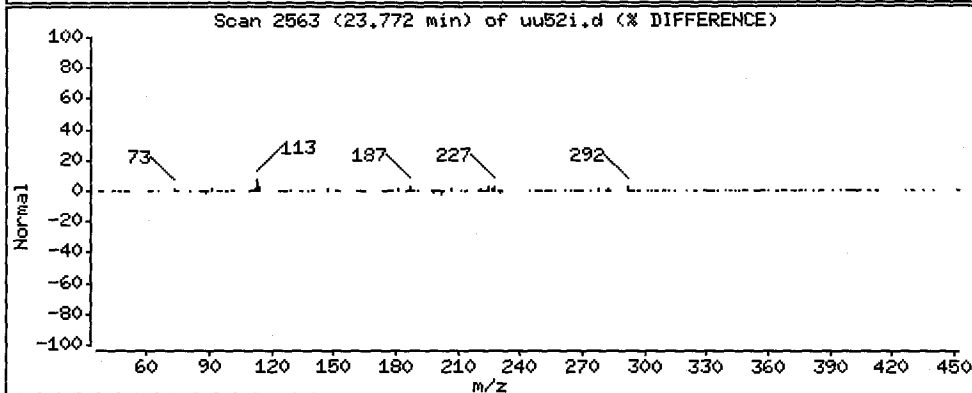
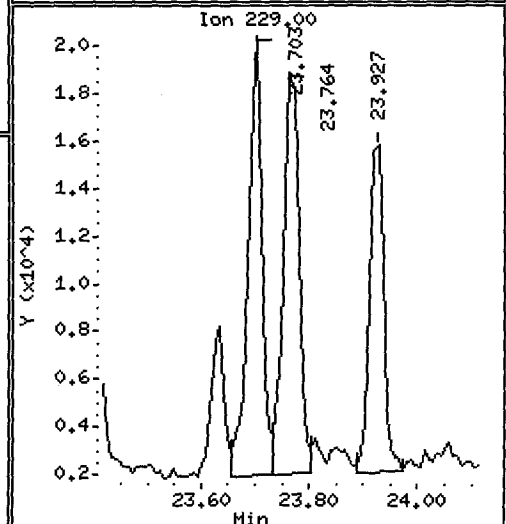
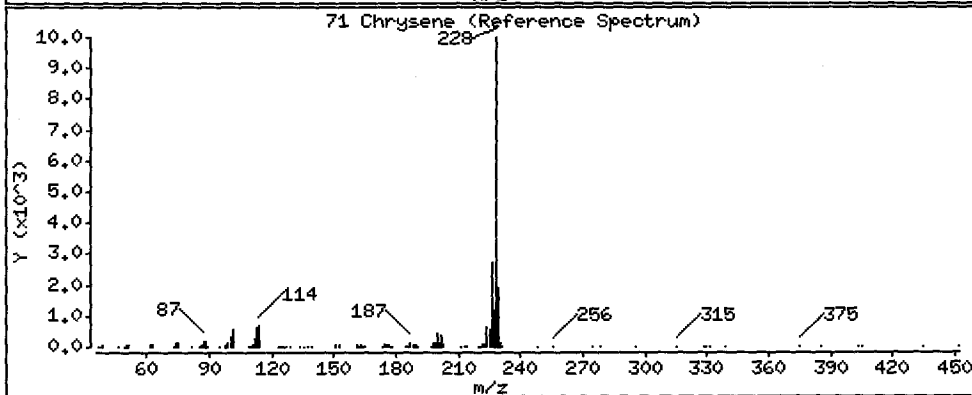
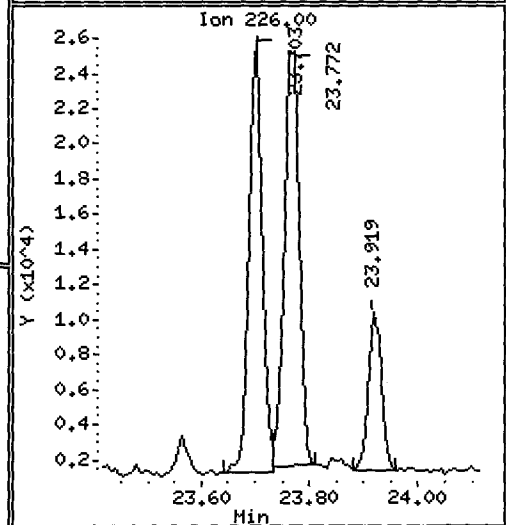
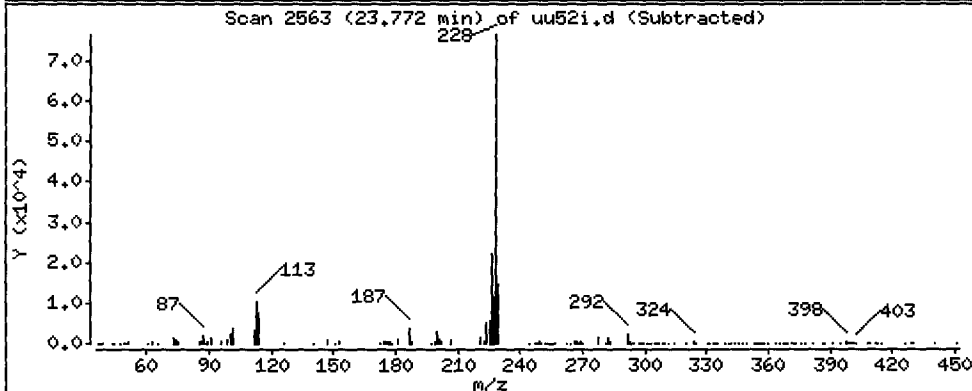
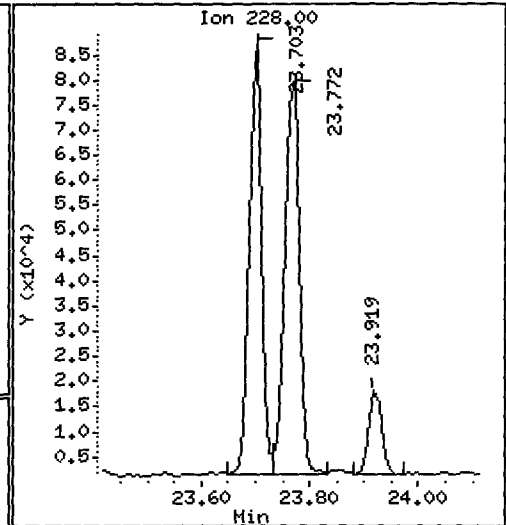
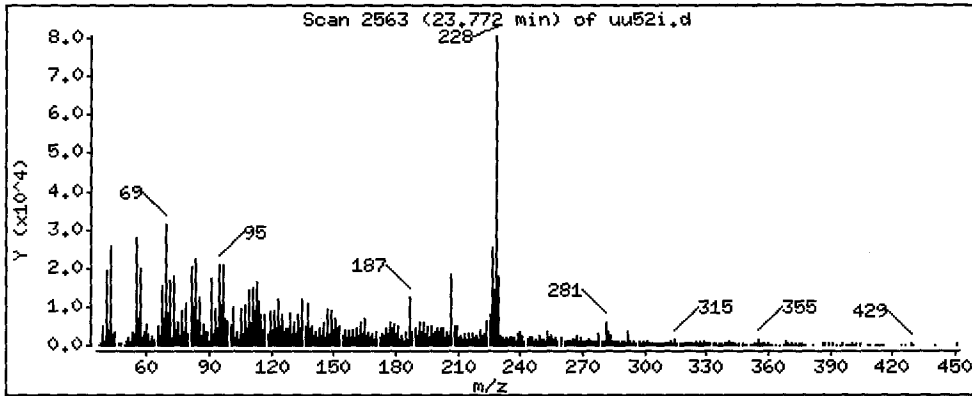
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

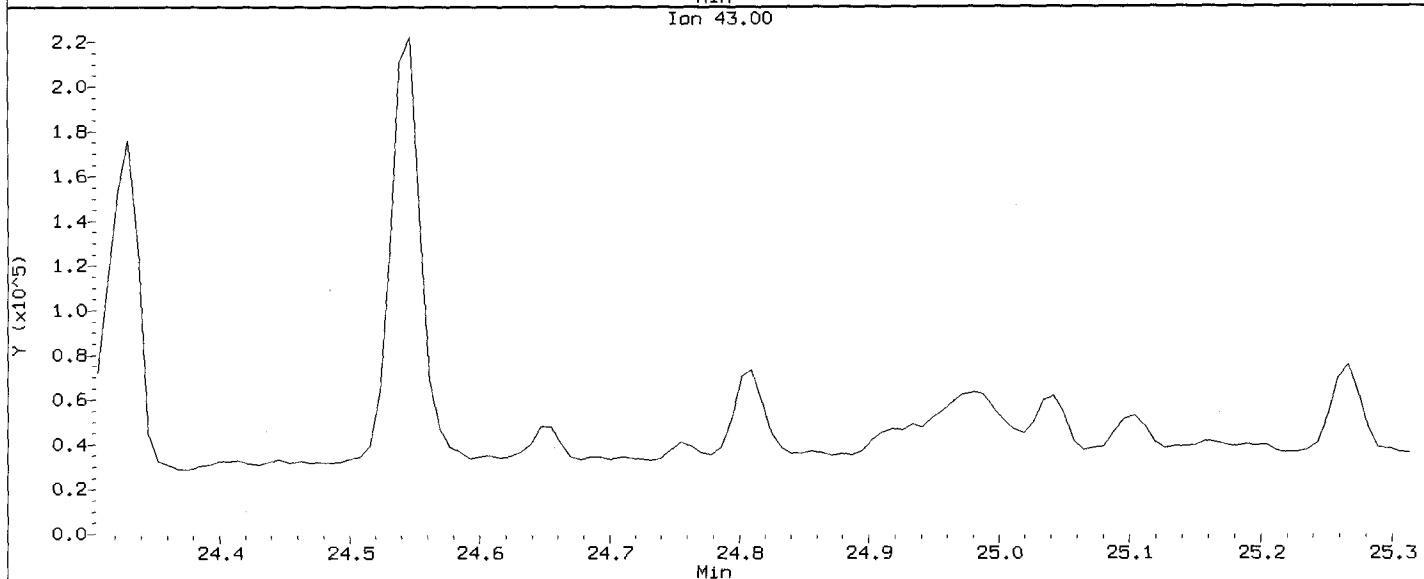
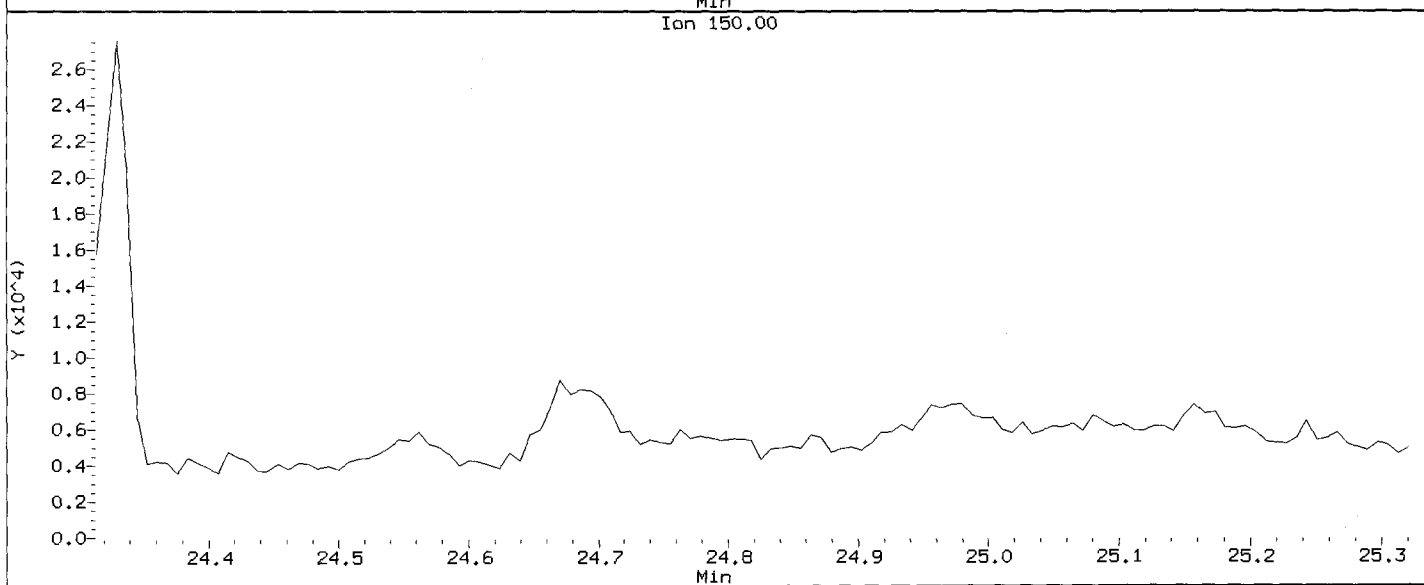
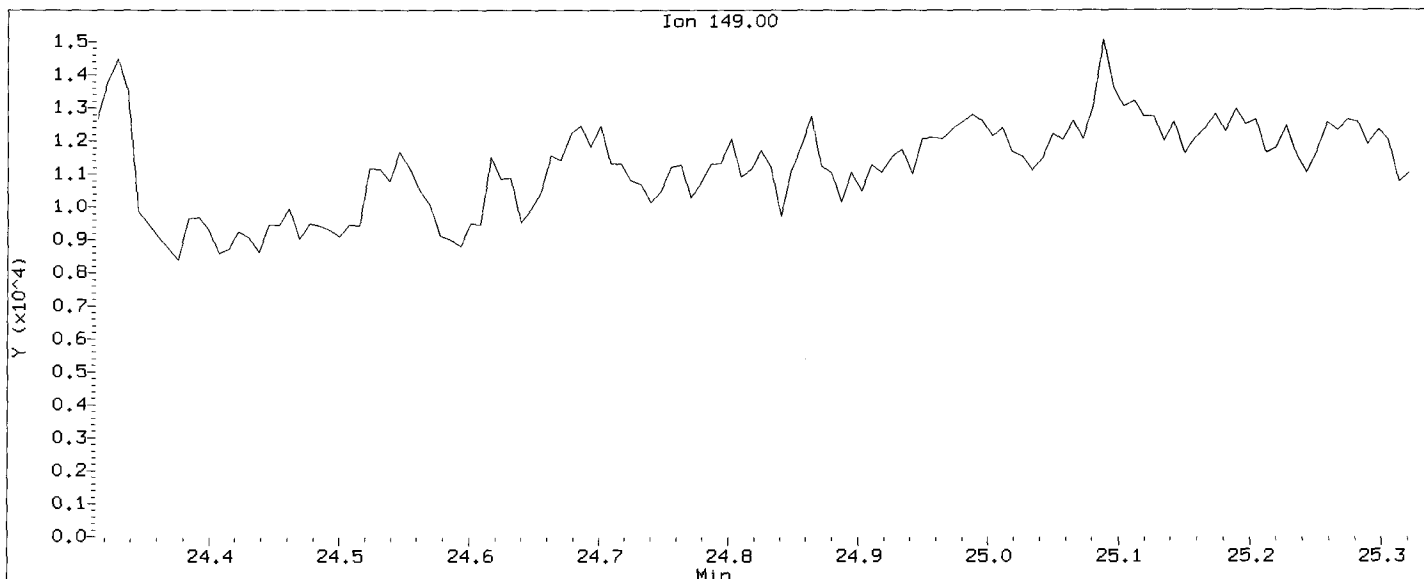
71 Chrysenes

Concentration: 236.7 ug/kg



Data File: /chem1/nt10.i/20120529.b/uu52i.d
Injection Date: 29-MAY-2012 12:56
Instrument: nt10.i
Client Sample ID: MS008-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



UU52: 01008

Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

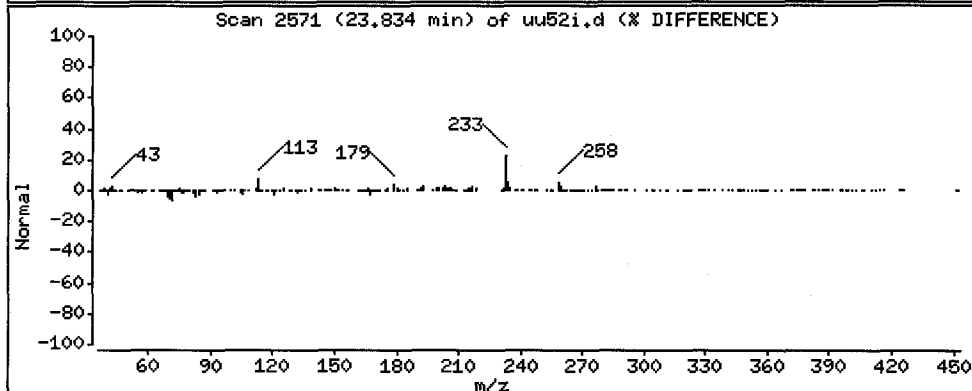
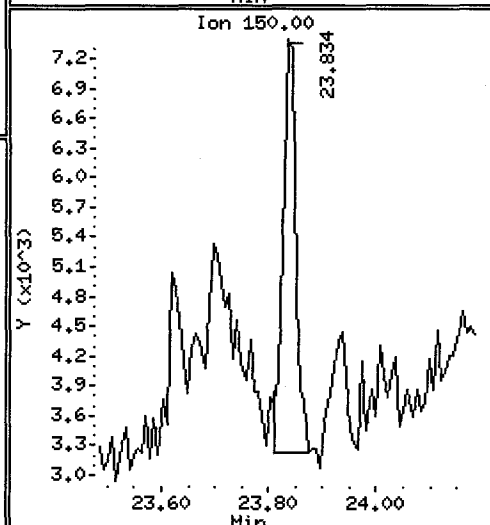
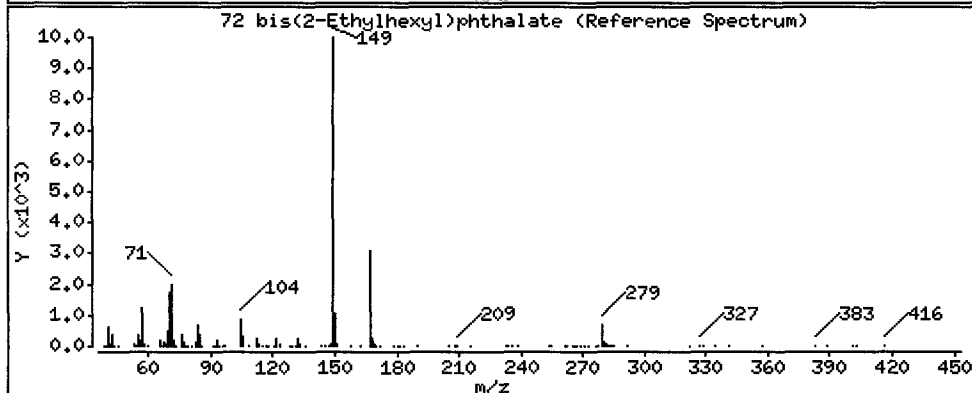
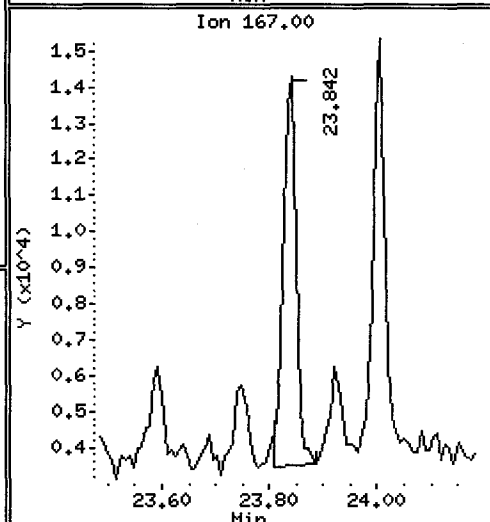
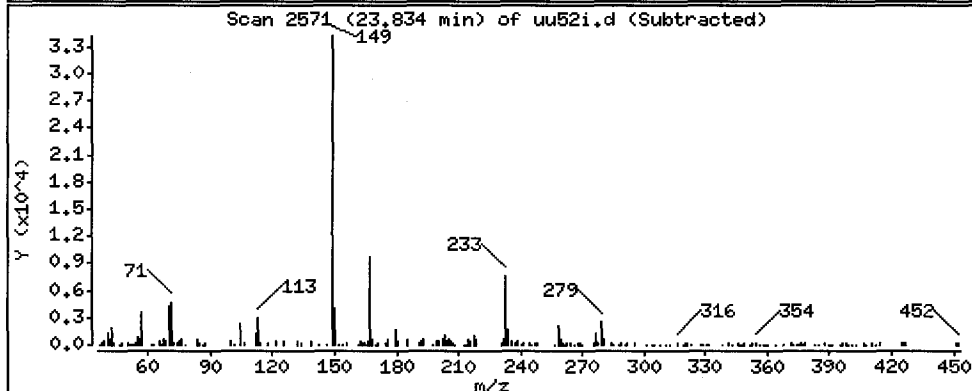
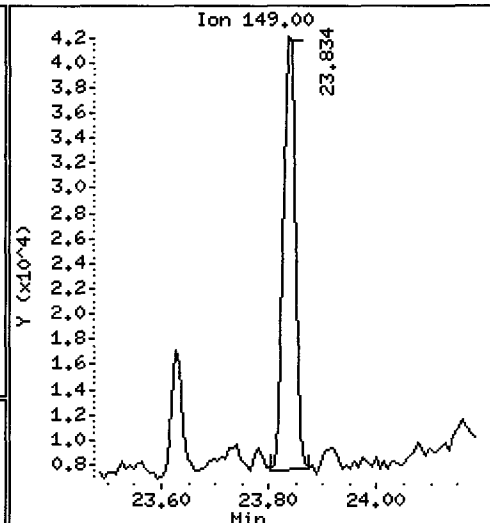
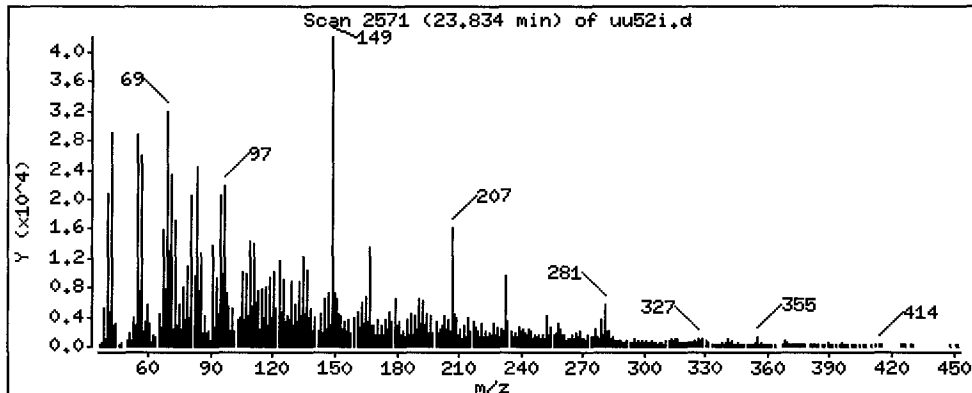
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 99.07 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

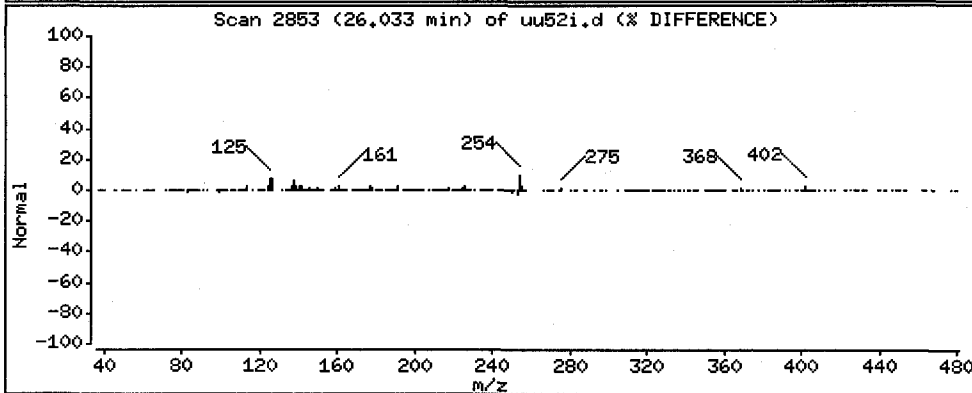
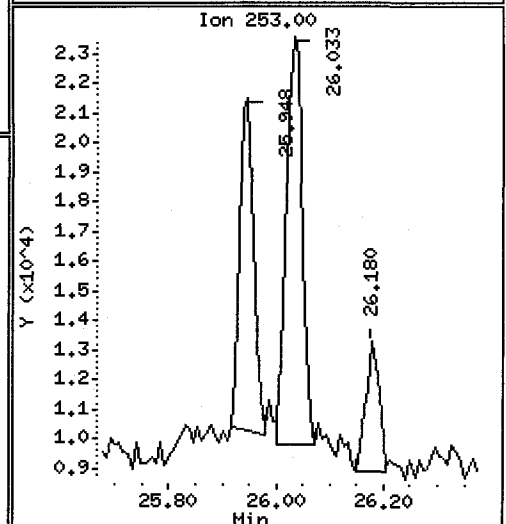
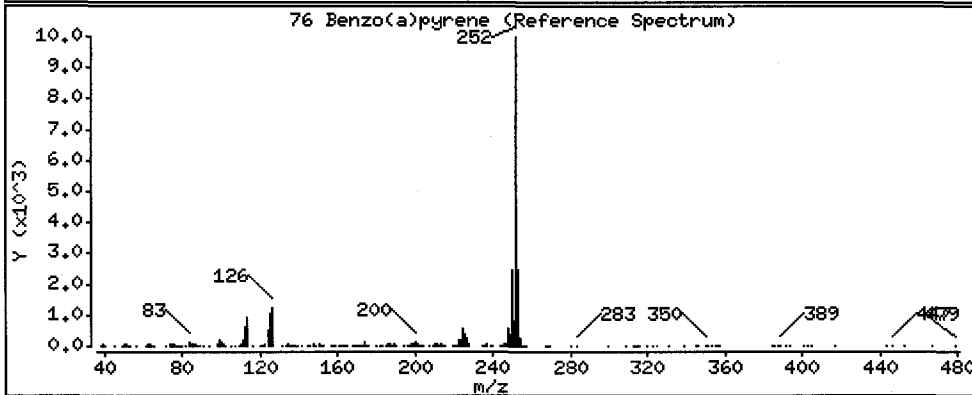
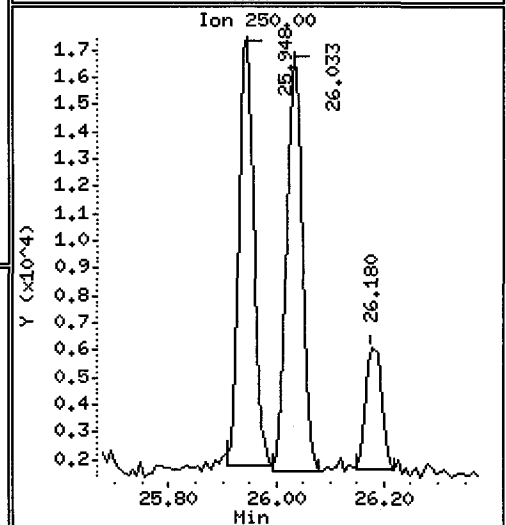
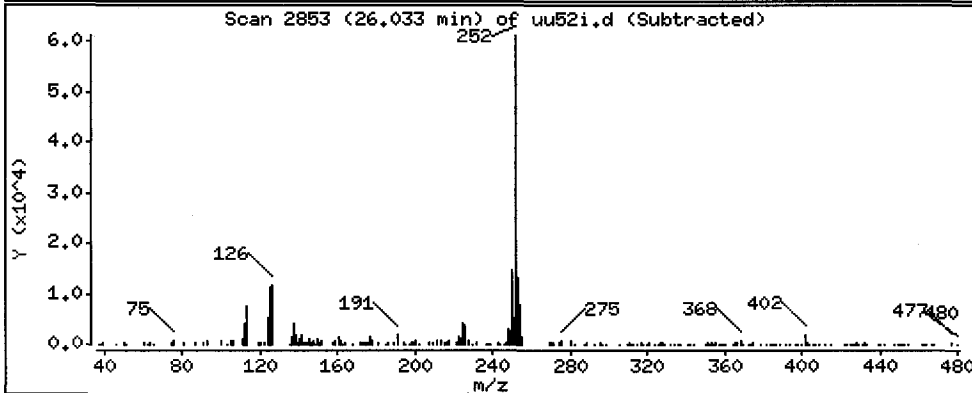
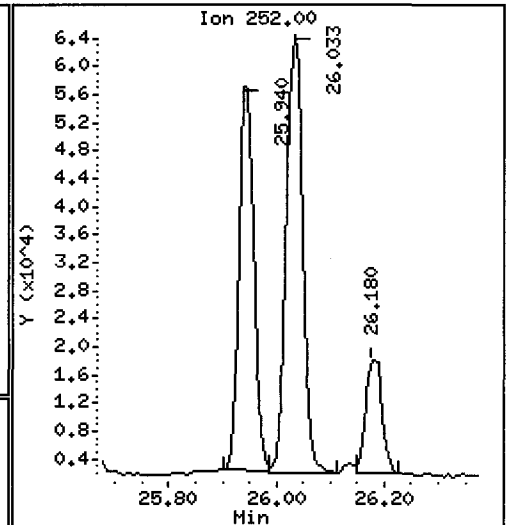
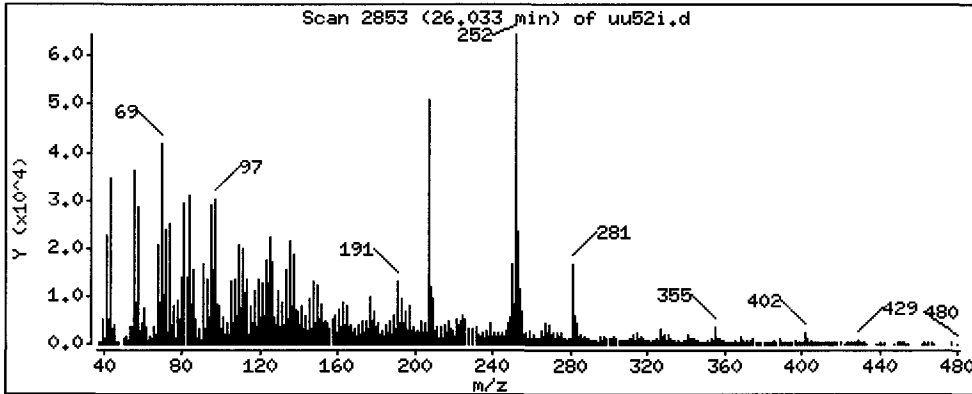
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 213.4 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

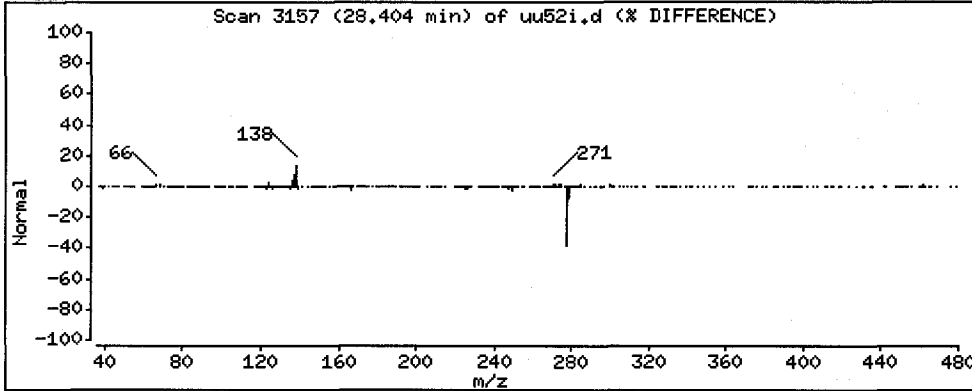
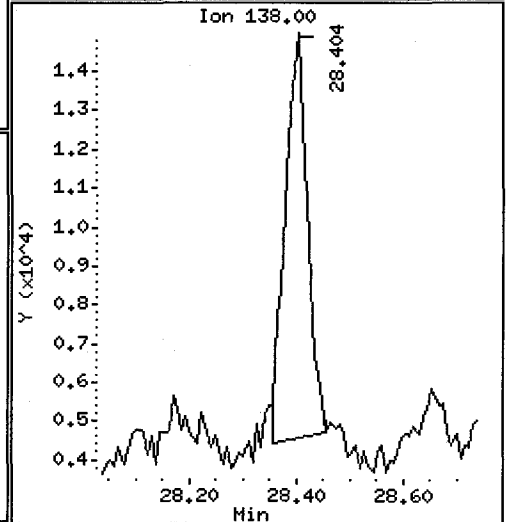
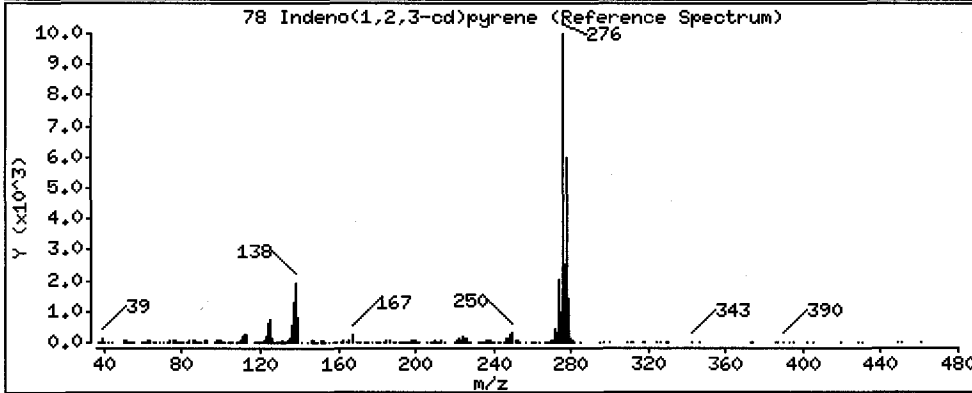
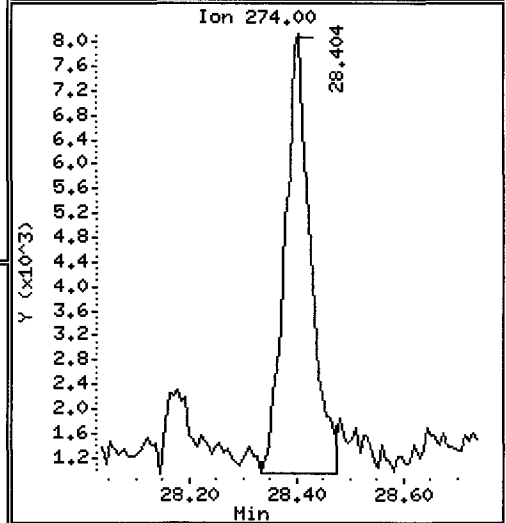
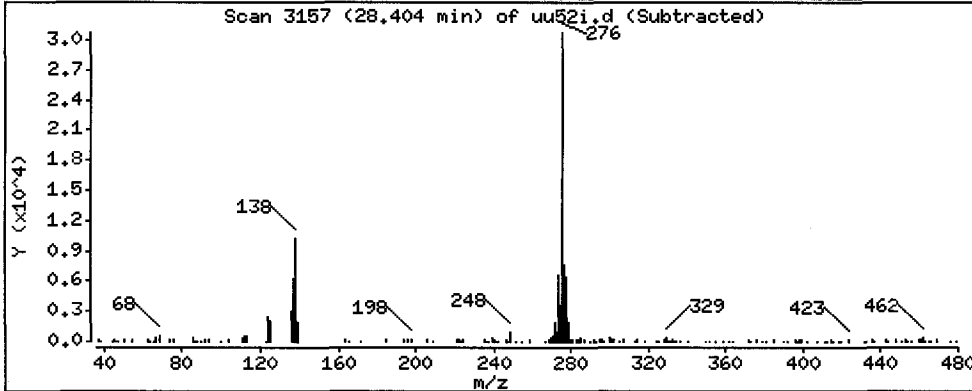
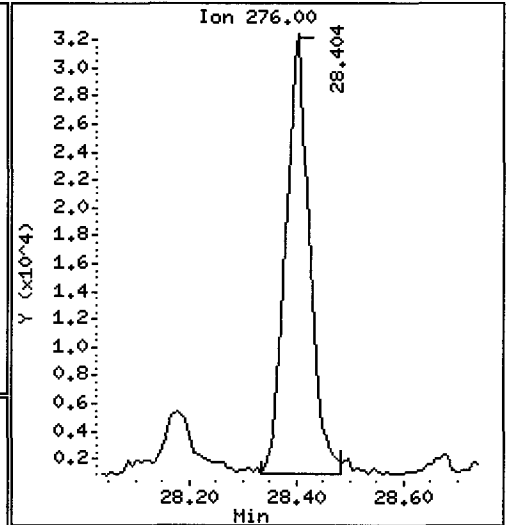
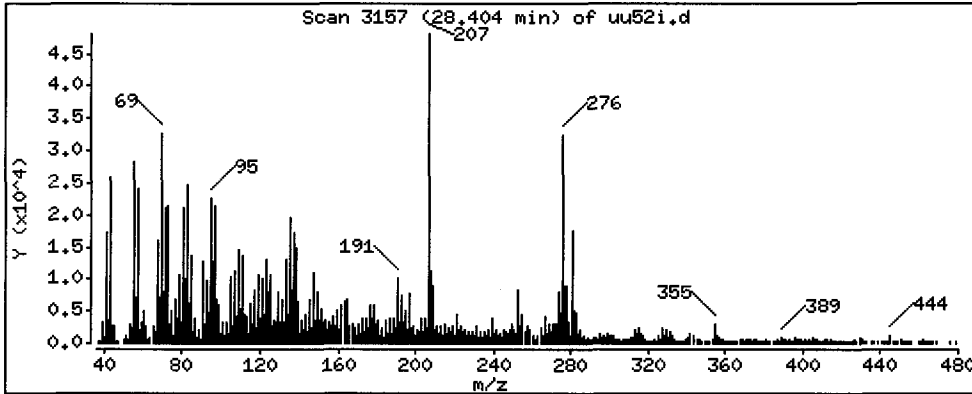
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 140.4 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU521,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

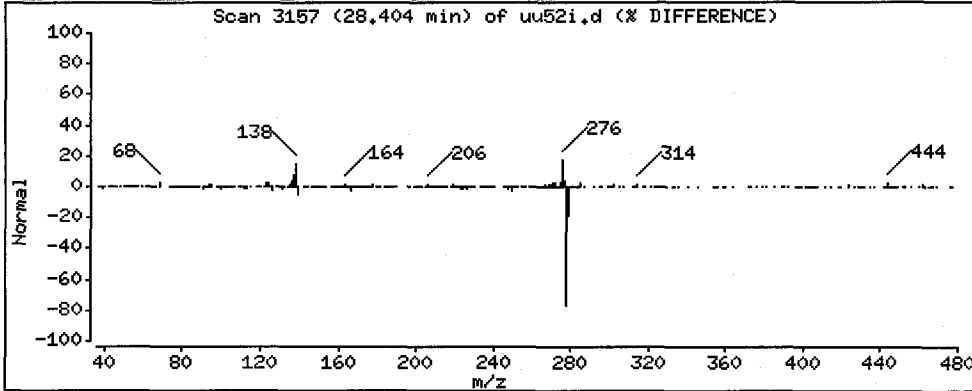
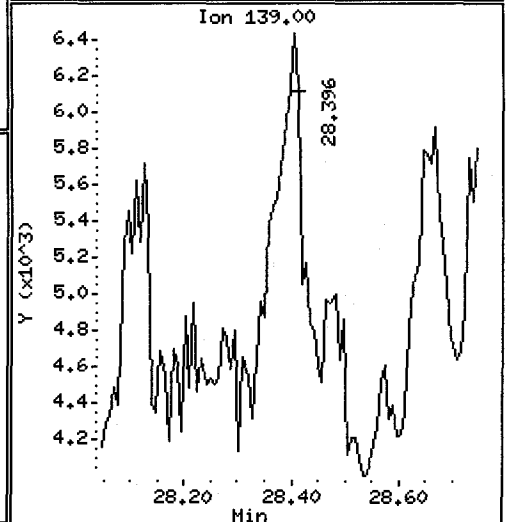
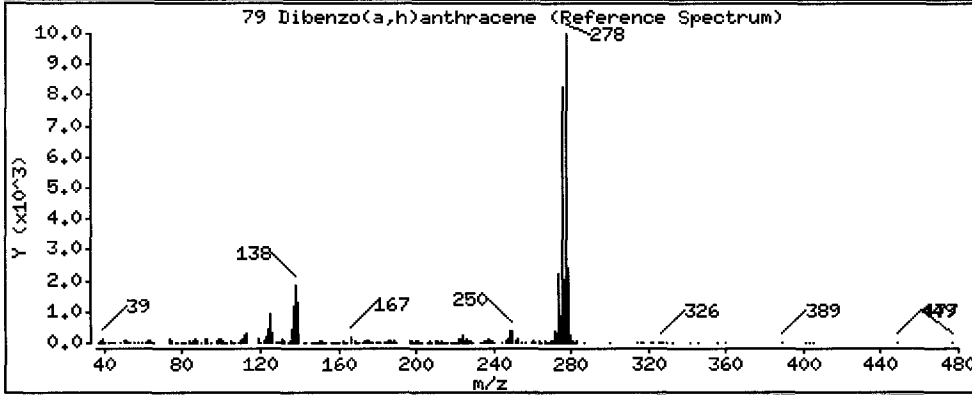
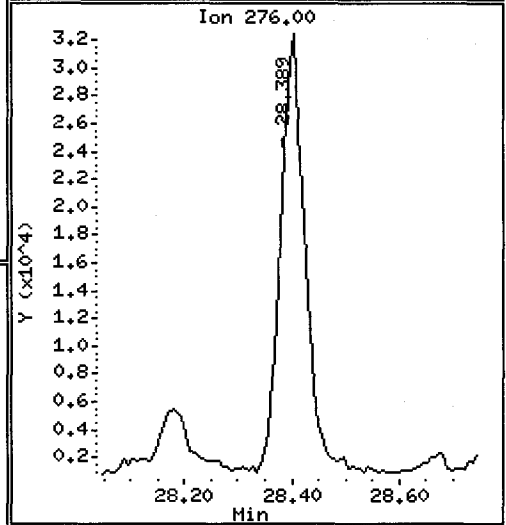
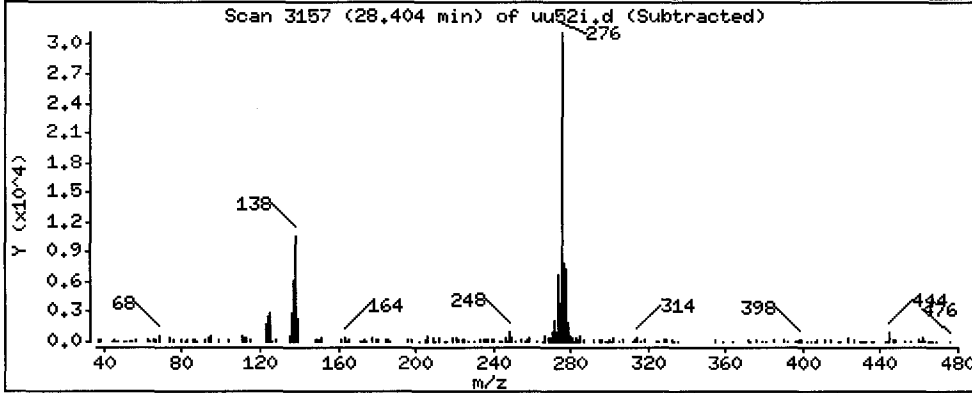
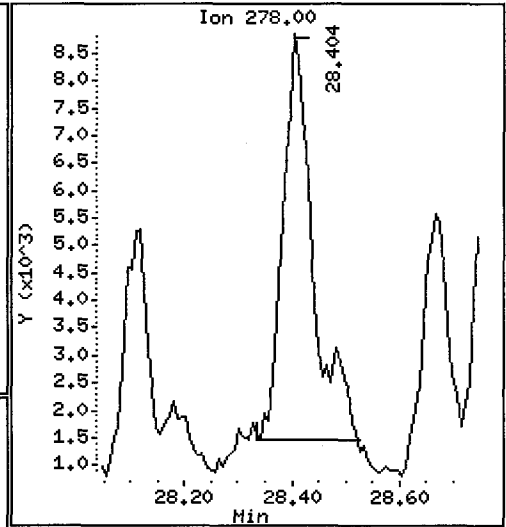
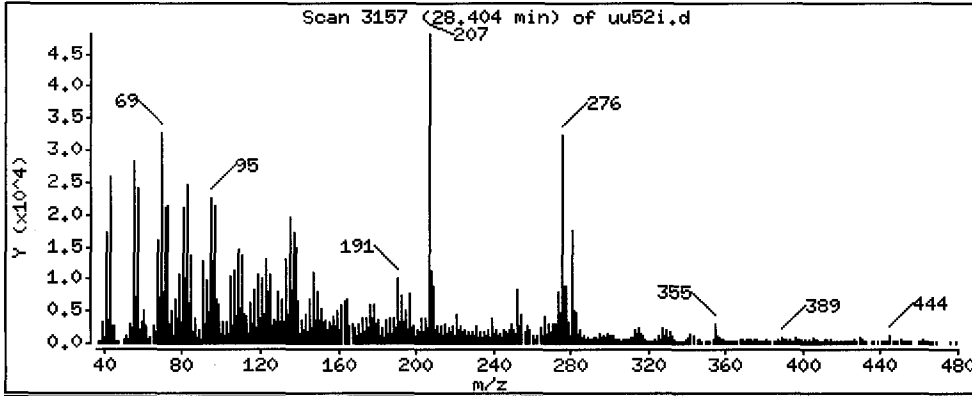
Column phase: ZB-5msi

Column diameter: 0.25

UP!

79 Dibenzo(a,h)anthracene

Concentration: 52.87 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

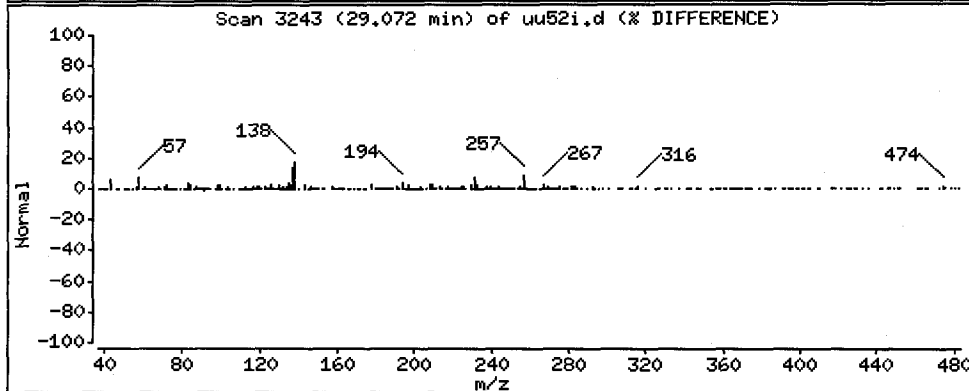
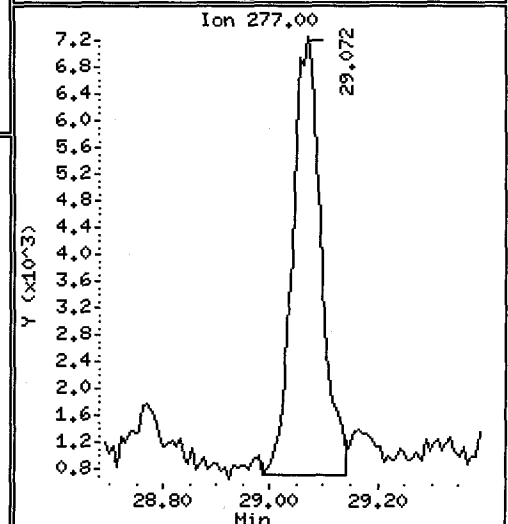
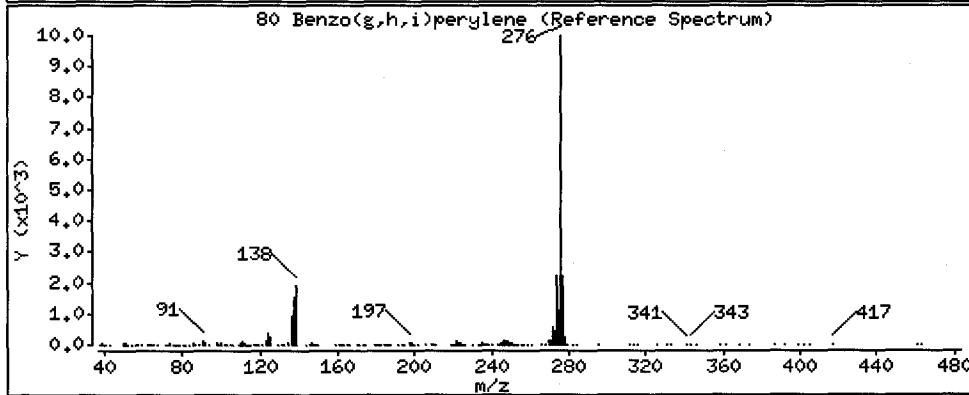
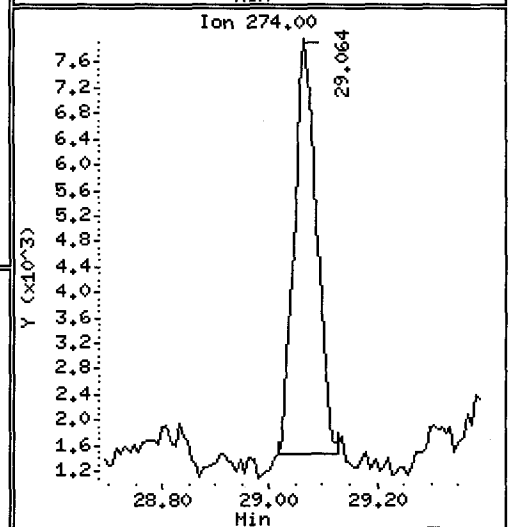
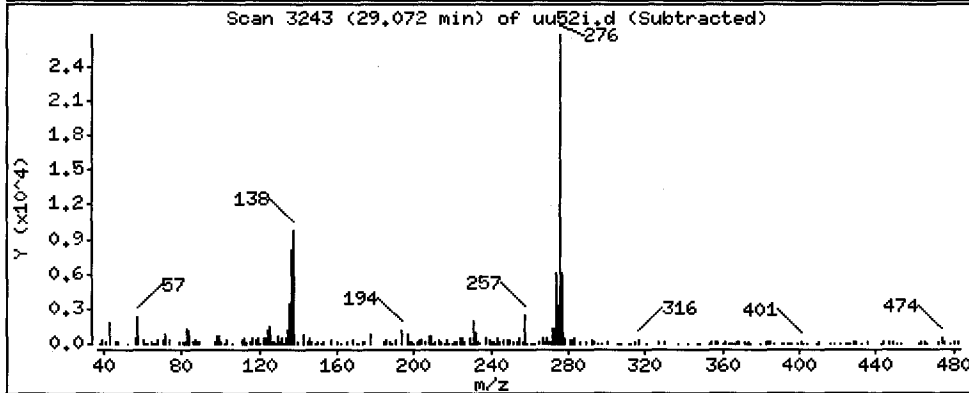
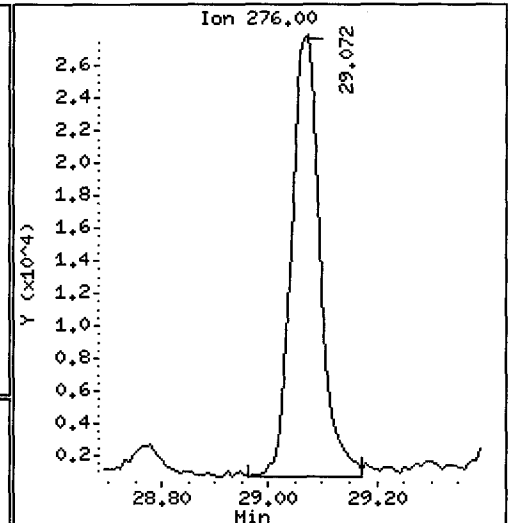
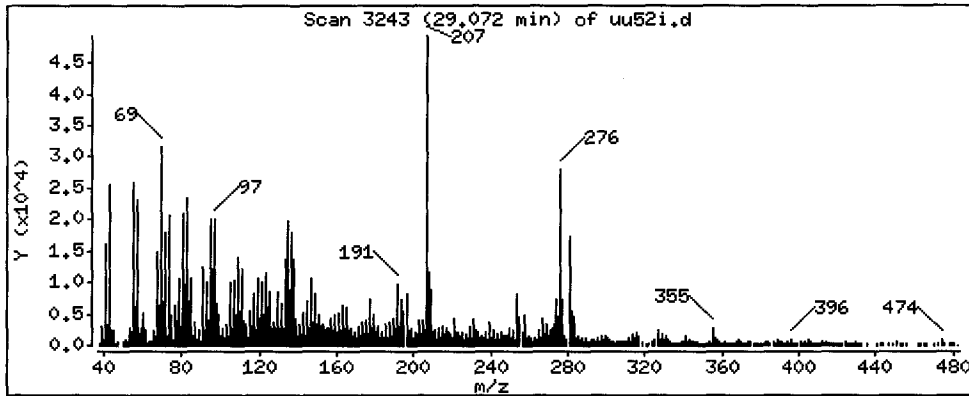
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 172.8 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

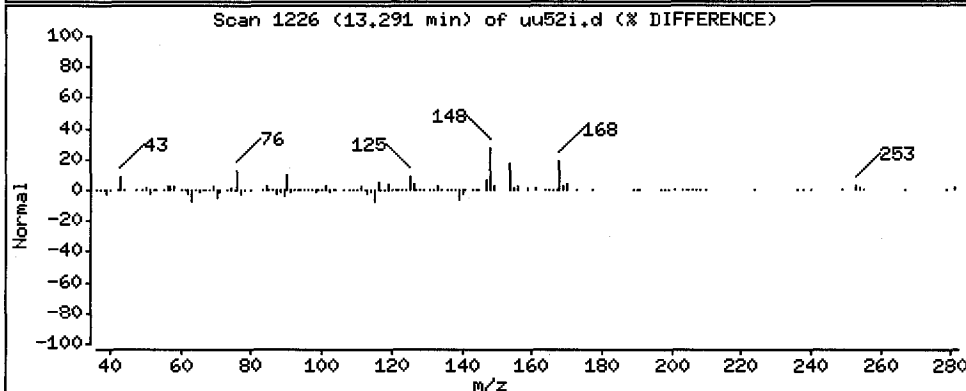
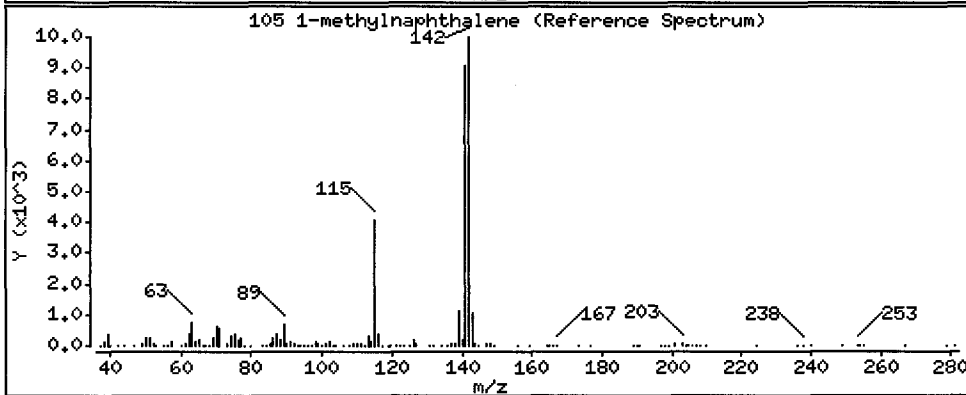
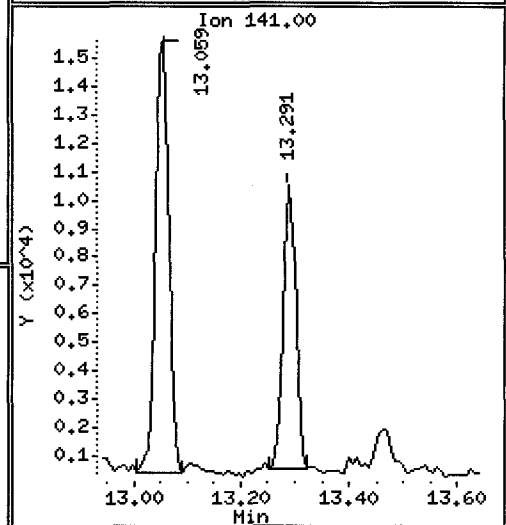
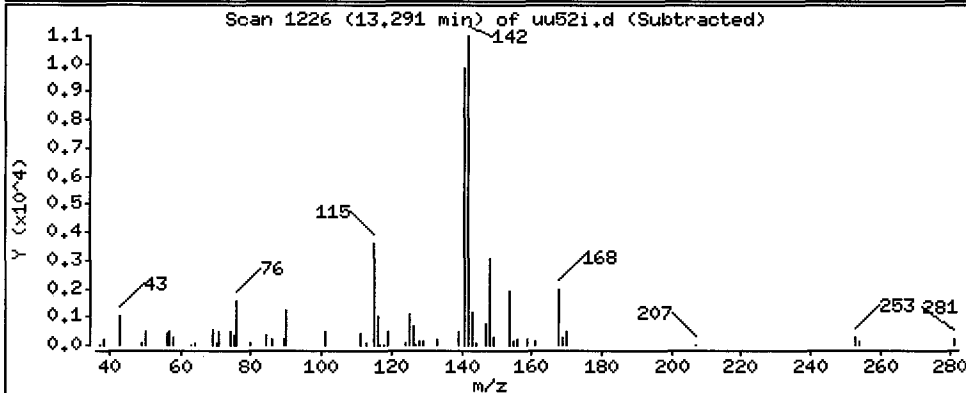
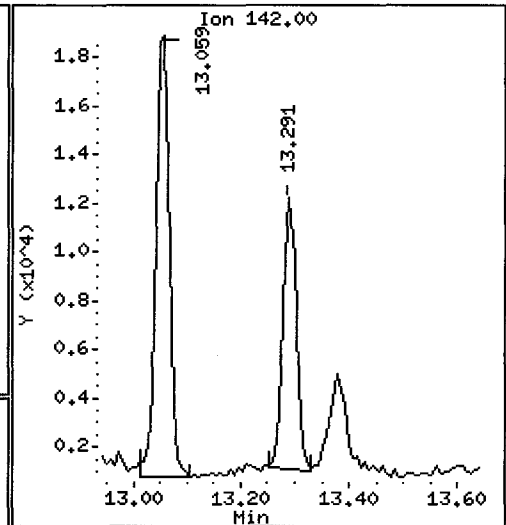
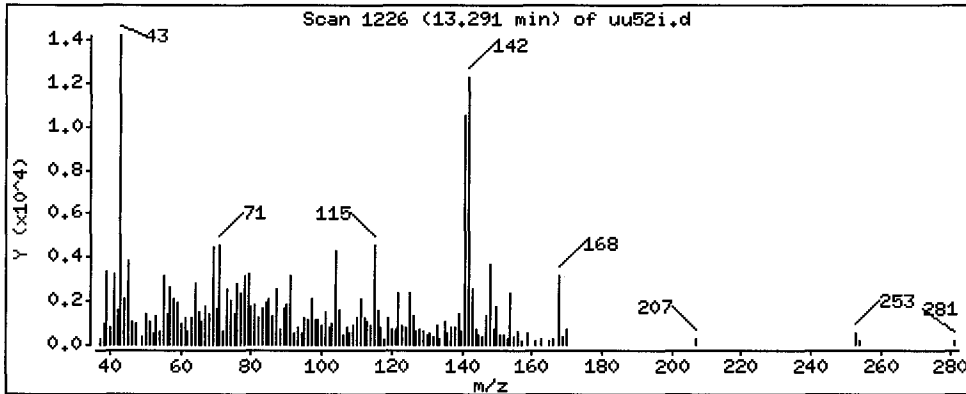
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 38.49 ug/kg



Date : 29-MAY-2012 12:56

Client ID: MS008-SS-120515

Instrument: nt10.i

Sample Info: UU52I,3

Volume Injected (uL): 1.0

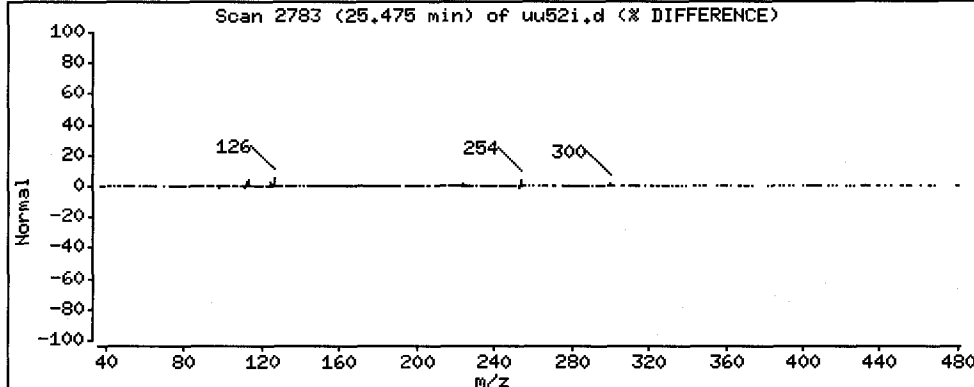
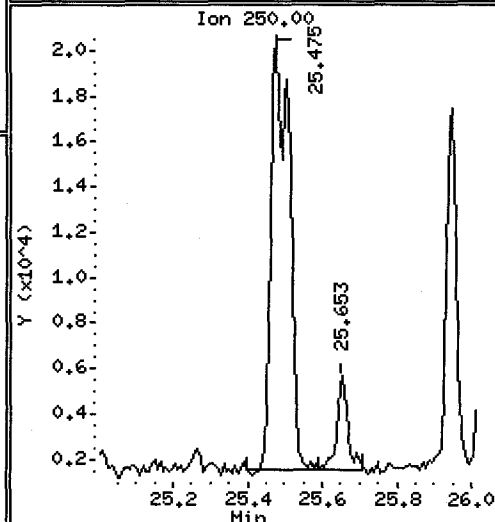
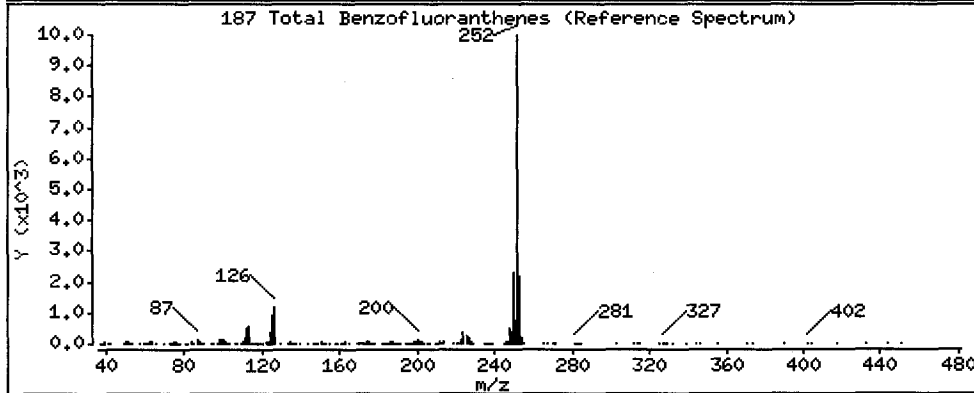
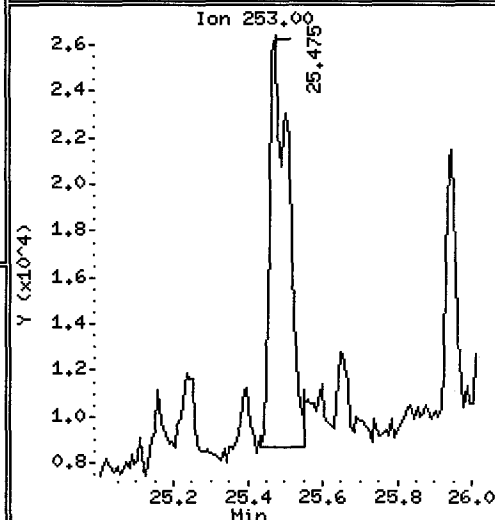
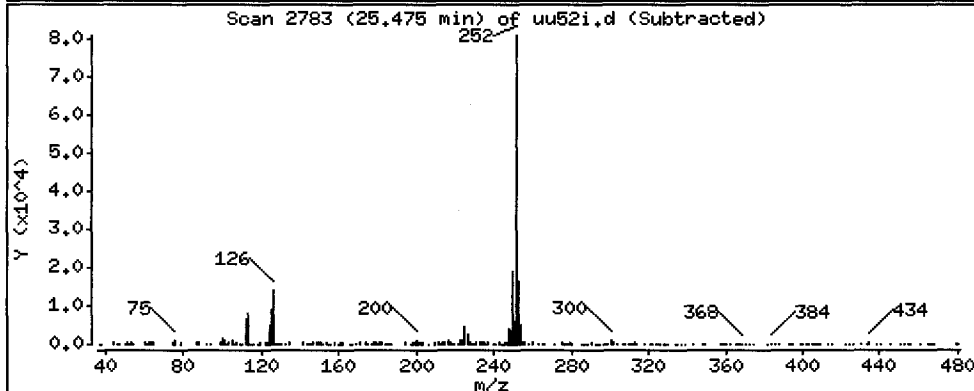
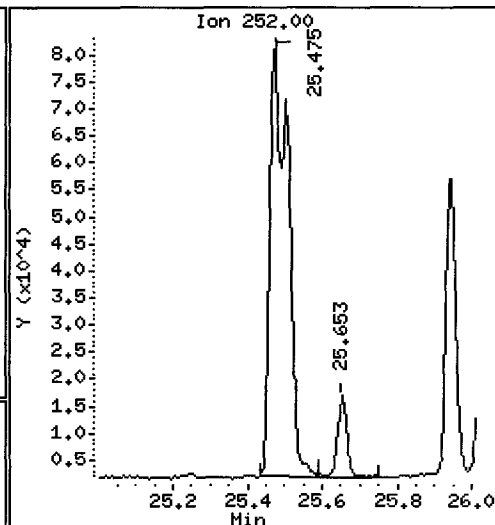
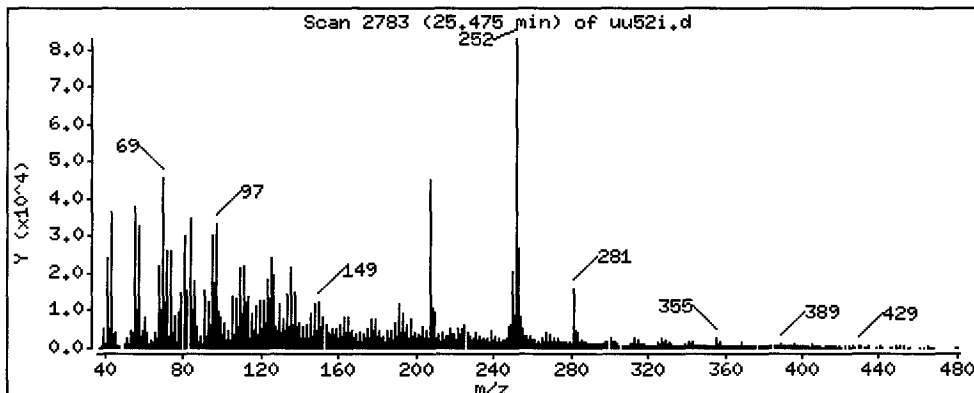
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

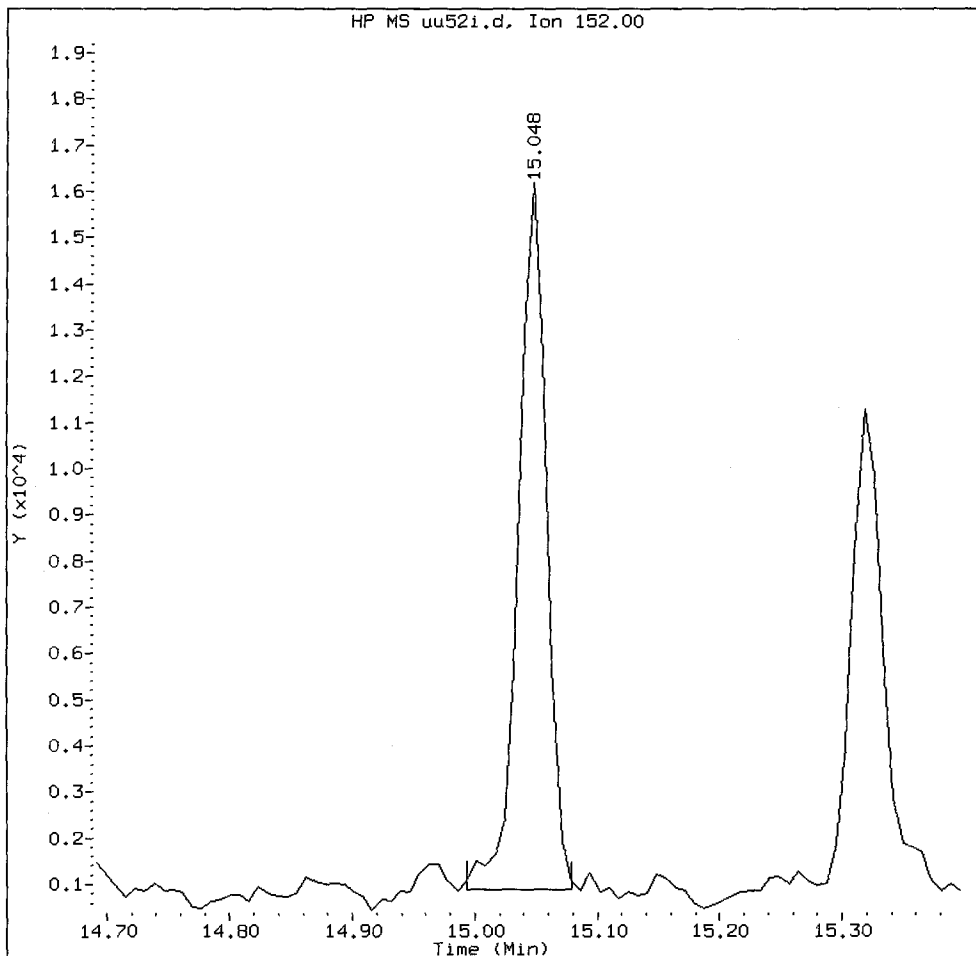
187 Total Benzofluoranthenes

Concentration: 417.6 ug/kg



UU52I, /chem1/nt10.i/20120529.b/uu52i.d

Acenaphthylene Amount: 0.13 Area: 25499



MANUAL INTEGRATION for Acenaphthylene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found ✓
- 4. Totals calculation

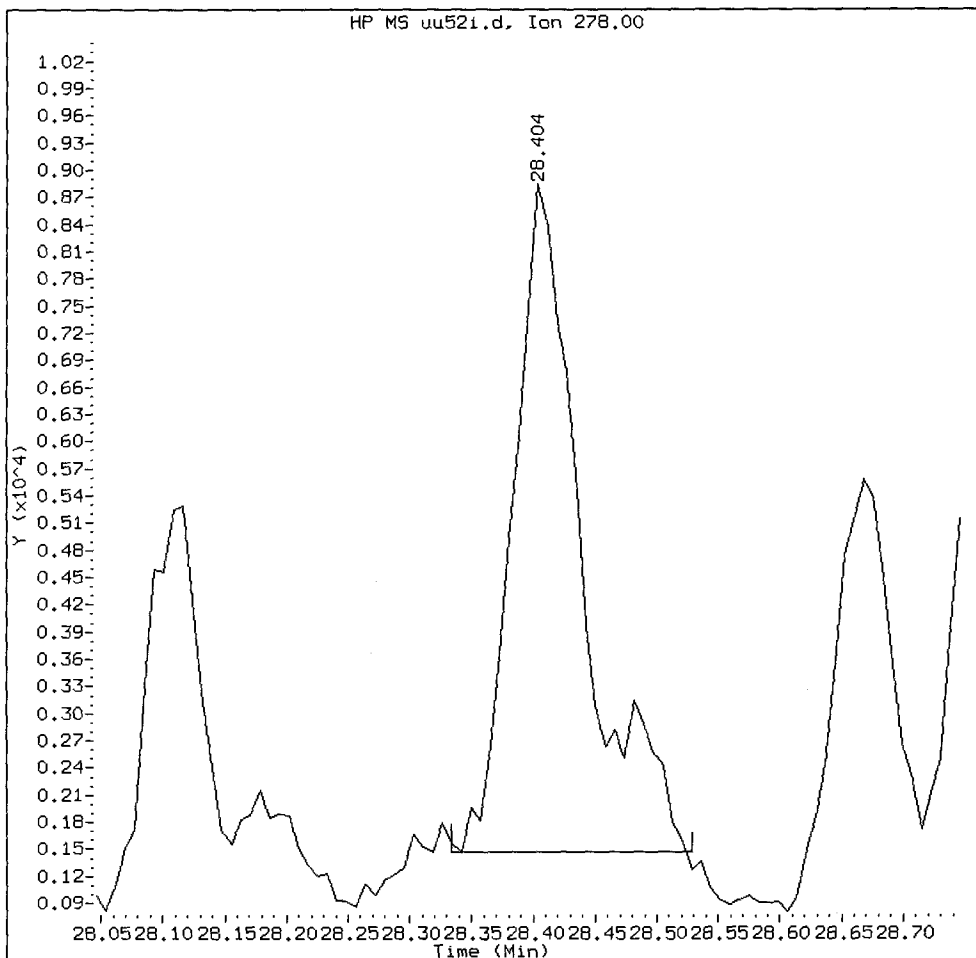
5. Other _____

Analyst: JR

Date: 5/30/92

UU52I, /chem1/nt10.i/20120529.b/uu52i.d

Dibenzo(a,h)anthracene Amount: 0.18 Area: 28829



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation ✓

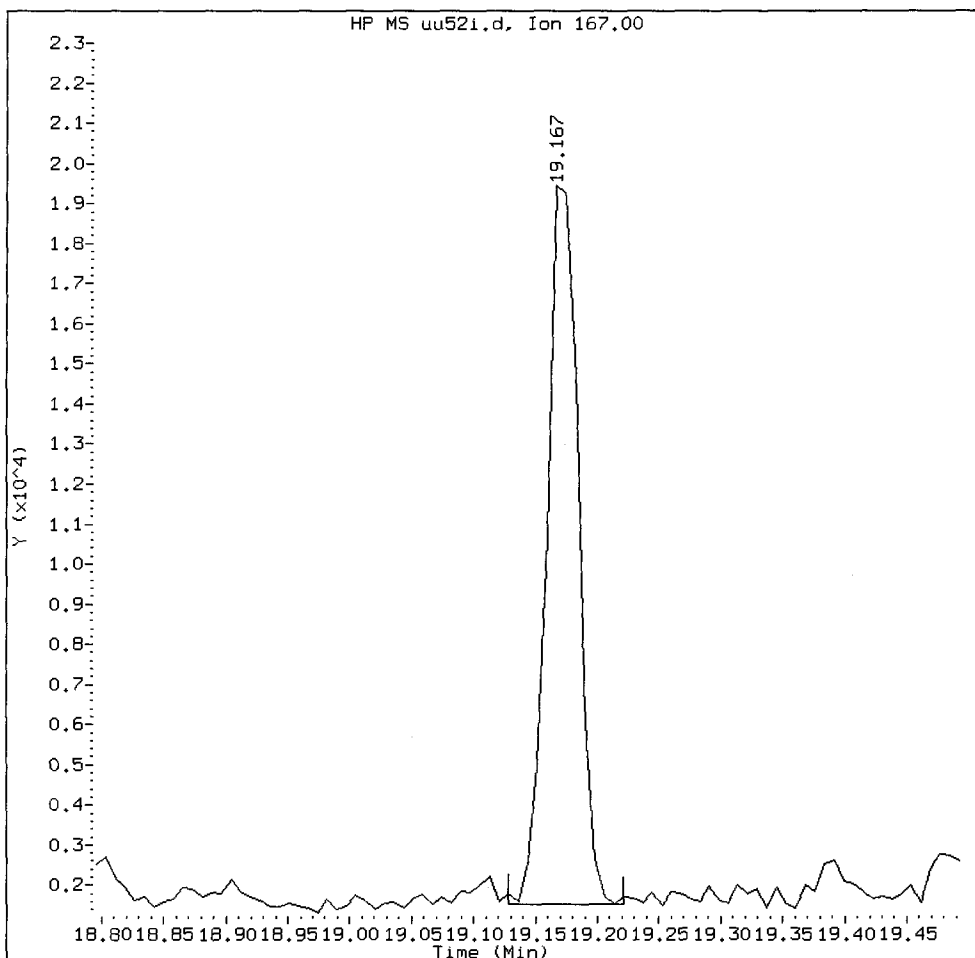
5. Other _____

Analyst: YZ

Date: 5/30/12

UU52I, /chem1/nt10.i/20120529.b/uu52i.d

Carbazole Amount: 0.21 Area: 31906



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found ✓
4. Totals calculation

5. Other _____

Analyst: YB

Date: 6/4/9

CO-ELUTION SUMMARY FOR FILE - uu52i.d

Lab ID: UU52I, Method: ABN.m, Instrument: nt10.i, Date: 29-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

YZ 6/9/12

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt10.i/20120529.b/uu52j.d
 Lab Smp Id: UU52J Client Smp ID: MS009-SS-120515
 Inj Date : 29-MAY-2012 13:33
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52J,3
 Misc Info : 12-8902
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120529.b/ABN.m
 Meth Date : 30-May-2012 12:34 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 4
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 3.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 102.00000 | Weight of sample extracted (g) |
| M | 90.20000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | ==== | 112 | 6.575 | 6.560 | (0.741) | 105640 | 1.56574 | 469.9 |
| \$ 2 Phenol-d5 | ==== | 99 | 8.275 | 8.260 | (0.933) | 133648 | 1.59020 | 477.2 |
| 3 Phenol | ==== | 94 | 8.298 | 8.283 | (0.935) | 30766 | 0.34343 | 103.1 |
| \$ 5 2-Chlorophenol-d4 | ==== | 132 | 8.499 | 8.492 | (0.958) | 124226 | 1.68710 | 506.3 |
| 4 Bis(2-Chloroethyl)ether | ==== | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | ==== | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | ==== | 152 | 8.871 | 8.863 | (1.000) | 192942 | 4.00000 | |
| 9 1,4-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | ==== | 152 | 9.251 | 9.244 | (1.043) | 49251 | 1.01961 | 306.0 |
| 12 1,2-Dichlorobenzene | ==== | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | ==== | 108 | 9.197 | 9.182 | (1.037) | 4252 | 0.11297 | 33.91 |
| 14 2,2'-oxybis(1-Chloropropane) | ==== | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | ==== | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | 9.756 | 9.748 | (1.100) | 117294 | 1.59231 | 477.9 |
| § 18 Nitrobenzene-d5 | 82 | 10.035 | 10.035 | (0.872) | 70683 | 1.01810 | 305.6 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | 11.049 | 11.126 | (0.960) | 60532 | 1.35653 | 407.1 |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 11.512 | 11.512 | (1.000) | 774858 | 4.00000 | |
| 28 Naphthalene | 128 | 11.558 | 11.550 | (1.004) | 187913 | 0.96197 | 288.7 |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | 13.059 | 13.051 | (1.134) | 16822 | 0.12387 | 37.18 |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| § 36 2-Fluorobiphenyl | 172 | 13.910 | 13.910 | (0.904) | 172395 | 1.13356 | 340.2 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | | | Compound Not Detected. | | |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 15.388 | 15.388 | (1.000) | 438714 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | | | Compound Not Detected. | | |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | 15.813 | 15.813 | (1.028) | 30592 | 0.17570 | 52.73 |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | 16.579 | 16.579 | (1.077) | 19121 | 0.14333 | 43.01 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| § 55 2,4,6-Tribromophenol | 330 | 17.165 | 17.157 | (1.115) | 32832 | 1.81312 | 544.2 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 18.656 | 18.649 | (1.000) | 619554 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.703 | 18.703 | (1.002) | 132859 | 0.83162 | 249.6 |
| 61 Anthracene | 178 | 18.803 | 18.796 | (1.008) | 28686 | 0.17189 | 51.59 |
| 62 Carbazole | 167 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|------------------------|-------------------|----------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 63 Di-n-butylphthalate | 149 | | | | Compound Not Detected. | | | |
| 64 Fluoranthene | 202 | 21.140 | 21.117 | (1.133) | 176384 | 0.97240 | 291.8 | |
| 65 Pyrene | 202 | 21.550 | 21.535 | (0.908) | 171444 | 0.79990 | 240.1 | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.852 | (0.921) | 156445 | 1.16518 | 349.7 | |
| 67 Butylbenzylphthalate | 149 | | | | Compound Not Detected. | | | |
| 68 Benzo(a)anthracene | 228 | 23.702 | 23.695 | (0.999) | 37264 | 0.18806 | 56.44 | |
| * 69 Chrysene-d12 | 240 | 23.733 | 23.726 | (1.000) | 704418 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | Compound Not Detected. | | | |
| 71 Chrysene | 228 | 23.772 | 23.765 | (1.002) | 69928 | 0.40117 | 120.4 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.834 | 23.834 | (0.961) | 46422 | 0.30485 | 91.49 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.809 | 24.802 | (1.000) | 1108887 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | | | Compound Not Detected. | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | Compound Not Detected. | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | Compound Not Detected. | | | |
| 76 Benzo(a)pyrene | 252 | 26.033 | 26.025 | (0.996) | 48439 | 0.27168 | 81.54 | |
| * 77 Perylene-d12 | 264 | 26.133 | 26.126 | (1.000) | 689542 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.404 | 28.389 | (1.087) | 42701 | 0.20705 | 62.14 | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | Compound Not Detected. | | | |
| 80 Benzo(g,h,i)perylene | 276 | 29.064 | 29.041 | (1.112) | 48606 | 0.27484 | 82.49 | |
| 90 N-Nitrosodimethylamine | 74 | | | | Compound Not Detected. | | | |
| 91 Aniline | 93 | | | | Compound Not Detected. | | | |
| 93 Benzidine | 184 | | | | Compound Not Detected. | | | |
| 103 Pyridine | 79 | | | | Compound Not Detected. | | | |
| 105 1-methylnaphthalene | 142 | | | | Compound Not Detected. | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | Compound Not Detected. | | | |
| 187 Total Benzofluoranthenes | 252 | 25.475 | 25.506 | (0.975) | 118682 | 0.62030 | 186.2 | |
| 99 Perylene | 252 | | | | Compound Not Detected. | | | |
| 98 Retene | 219 | | | | Compound Not Detected. | | | |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: uu52j.d
 Lab Smp Id: UU52J
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120529.b/ABN.m
 Misc Info: 12-8902

Calibration Date: 29-MAY-2012
 Calibration Time: 11:01
 Client Smp ID: MS009-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 192942 | 1.81 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 774858 | 6.01 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 438714 | 4.28 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 619554 | -3.04 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 704418 | 9.20 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1108887 | 9.13 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 689542 | 6.08 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.87 | 0.08 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.65 | 18.15 | 19.15 | 18.66 | 0.04 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.03 |
| 134 Di-n-octylphthala | 24.80 | 24.30 | 25.30 | 24.81 | 0.03 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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: Anchor QEA, LLC.
Sample Matrix: SOLID
Lab Smp Id: UU52J
Level: LOW
Data Type: MS DATA
SpikeList File: SHORTPSDDA.spk
Sublist File: PSDDAICAL.sub
Method File: /chem1/nt10.i/20120529.b/ABN.m
Misc Info: 12-8902

Client SDG: UU52
Fraction: SV
Client Smp ID: MS009-SS-120515
Operator: VTS/YZ
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 750.3 | 469.9 | 62.63 | 30-160 |
| \$ 2 Phenol-d5 | 750.3 | 477.2 | 63.61 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 750.3 | 506.3 | 67.48 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 500.2 | 306.0 | 61.18 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 500.2 | 305.6 | 61.09 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 500.2 | 340.2 | 68.01 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 750.3 | 544.2 | 72.52 | 30-160 |
| \$ 66 Terphenyl-d14 | 500.2 | 349.7 | 69.91 | 30-160 |

Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

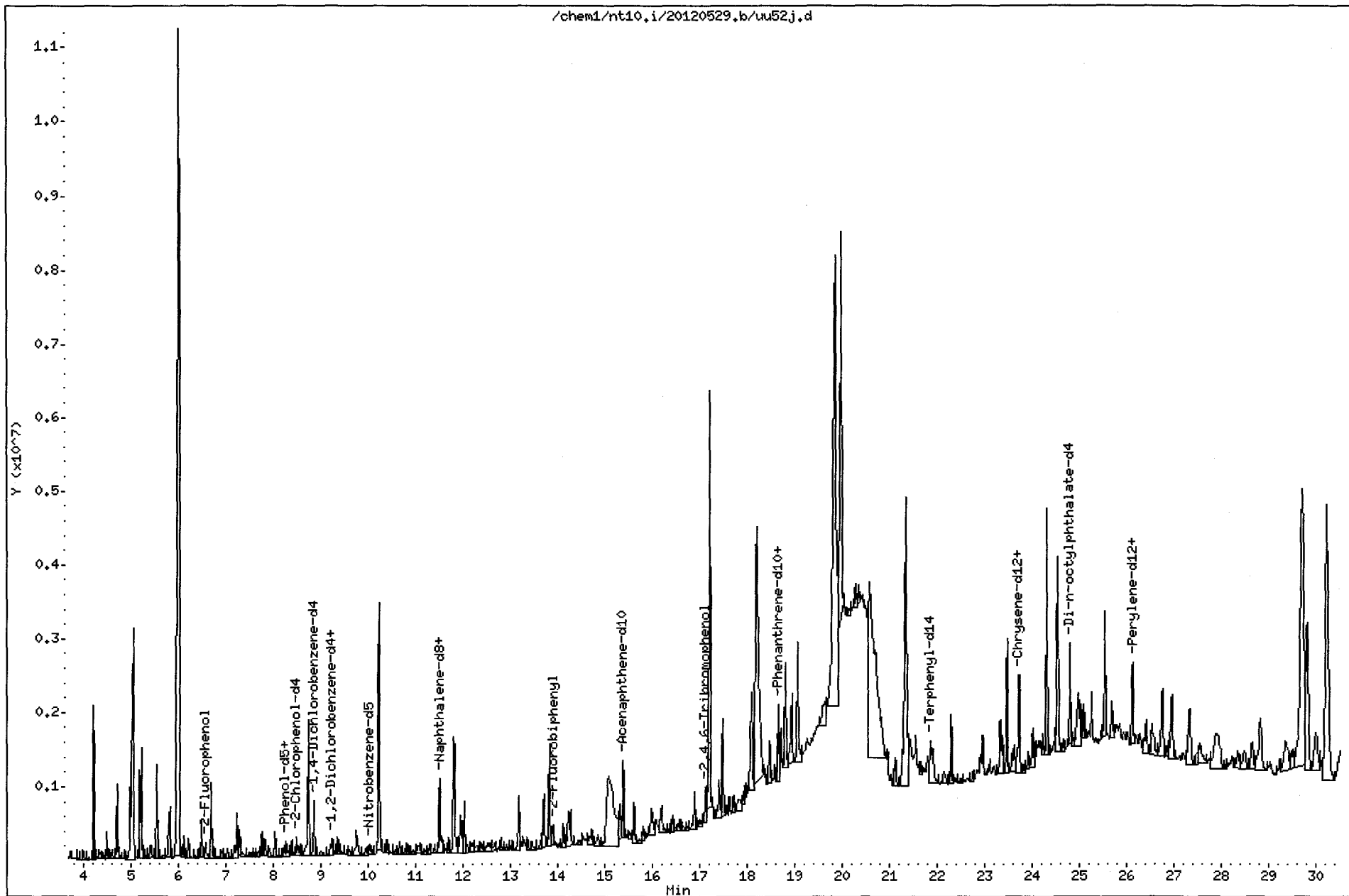
Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

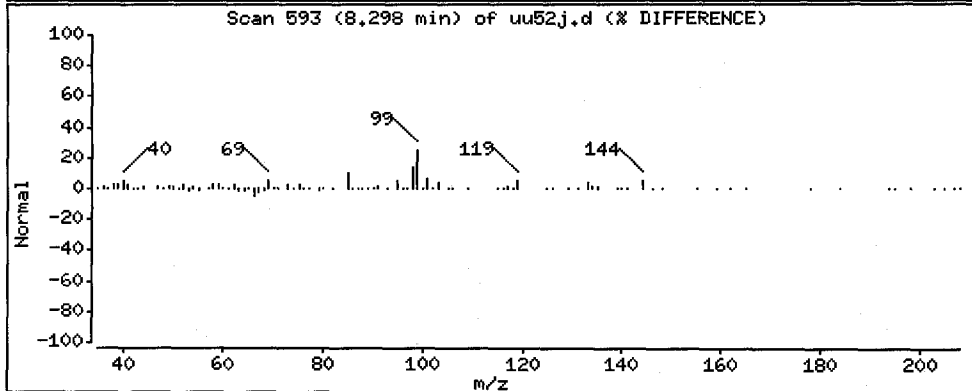
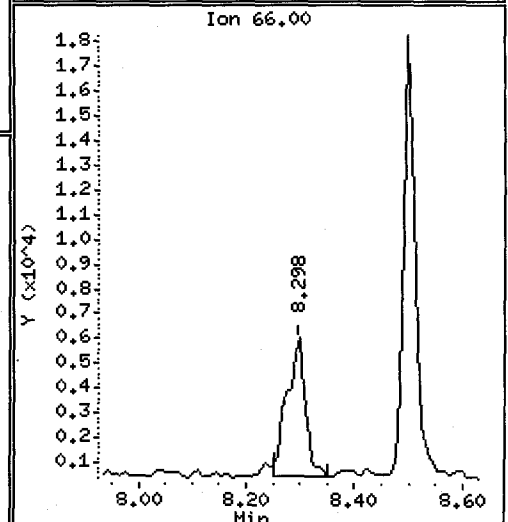
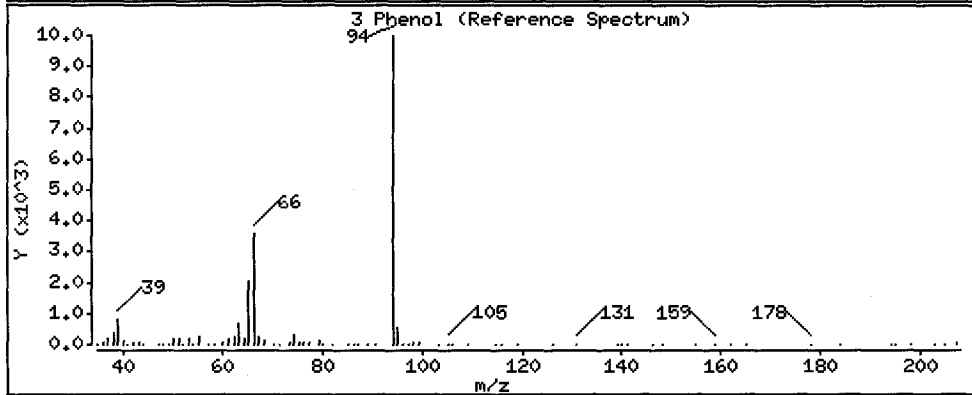
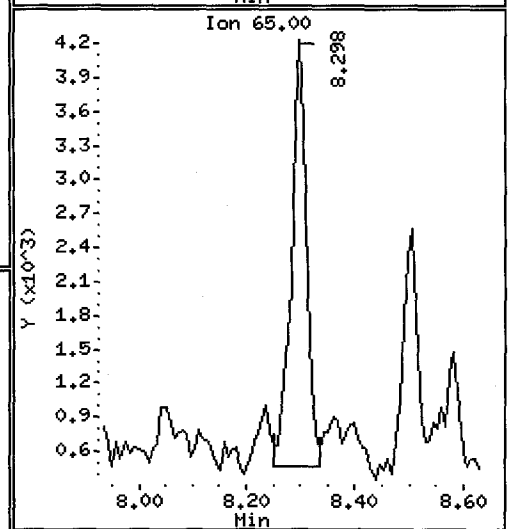
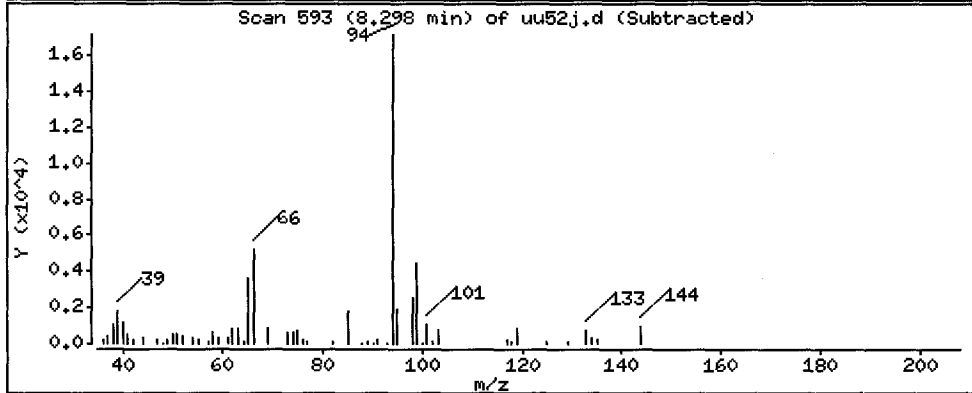
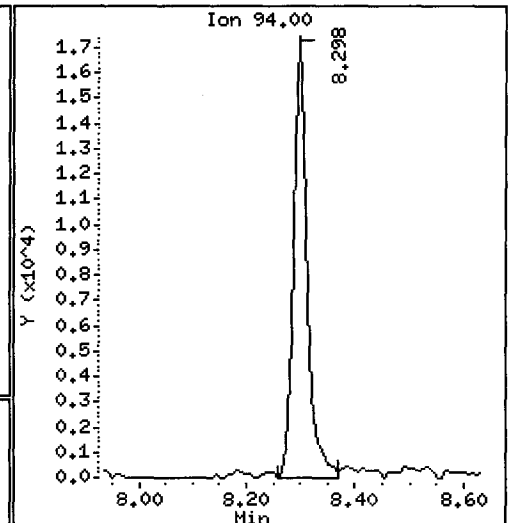
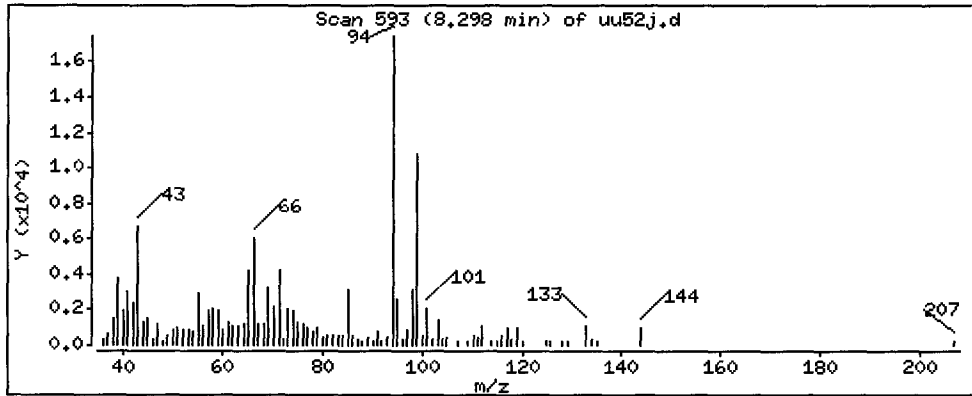
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 103.1 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

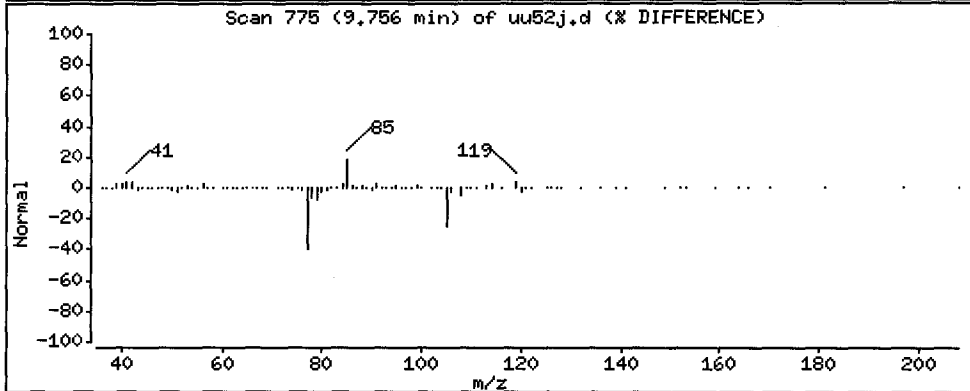
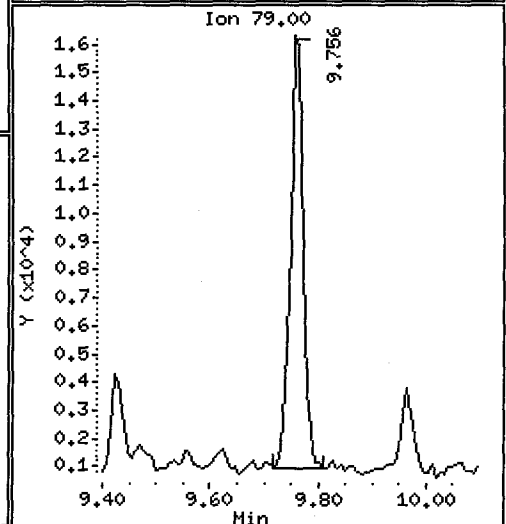
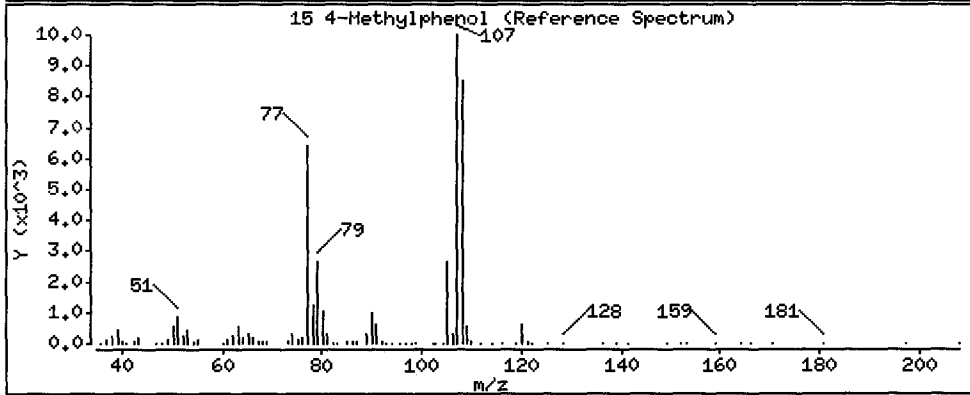
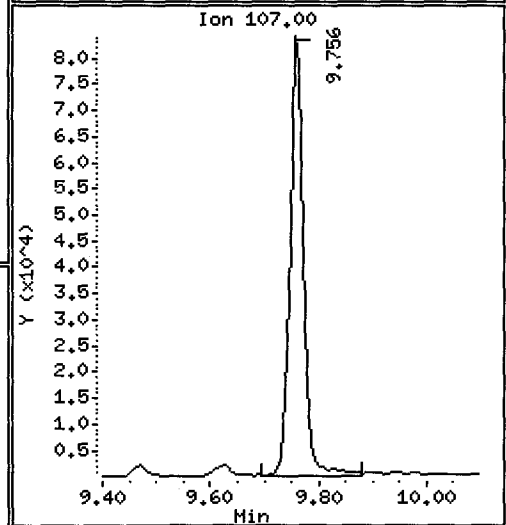
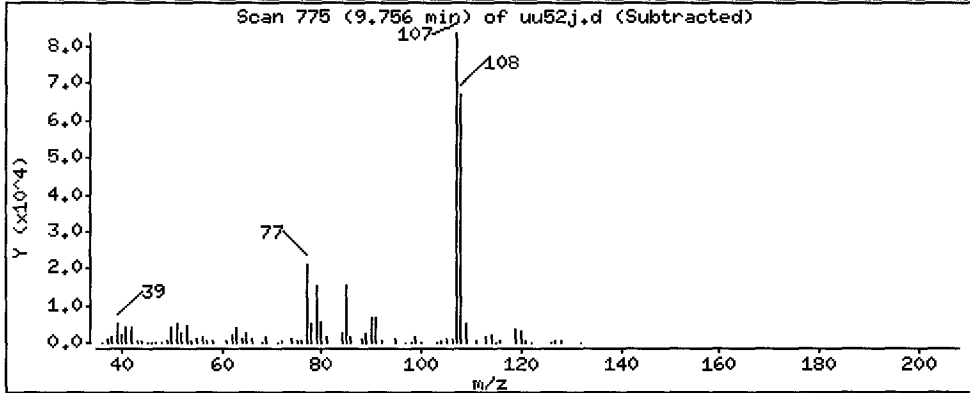
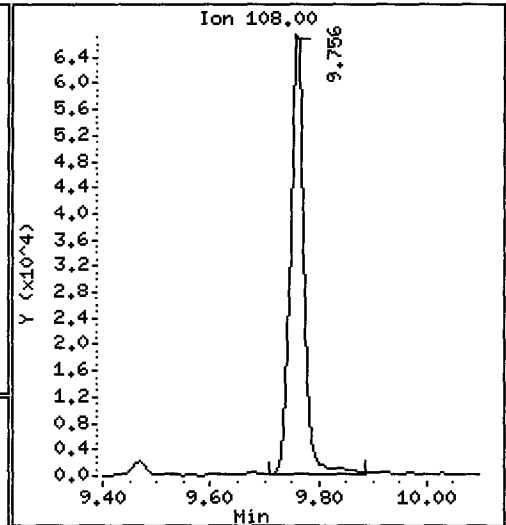
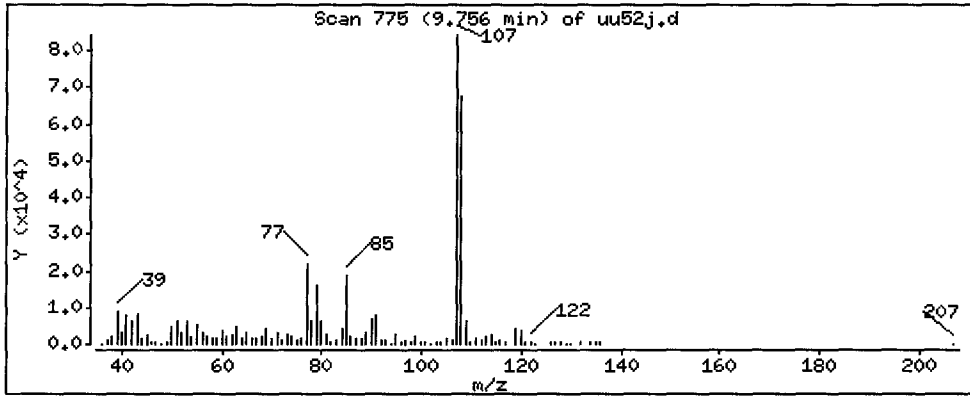
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 477.9 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

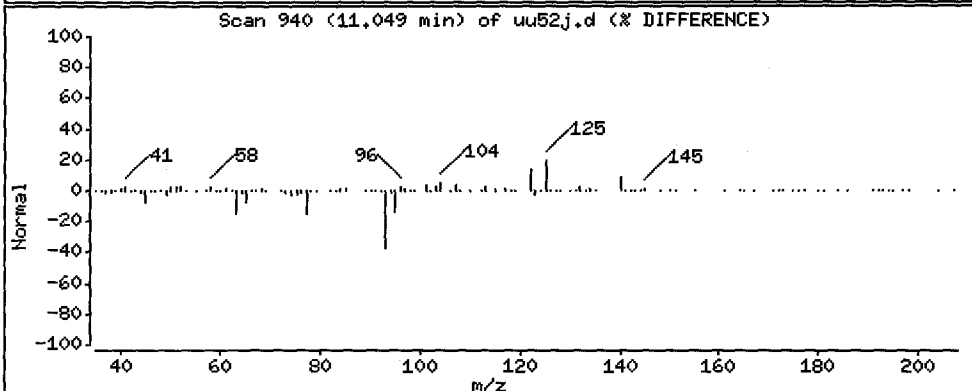
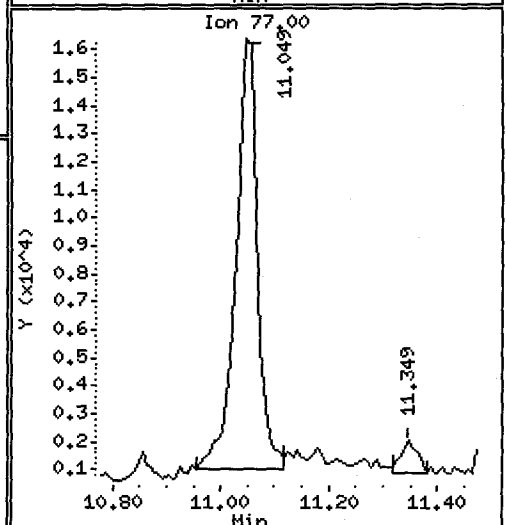
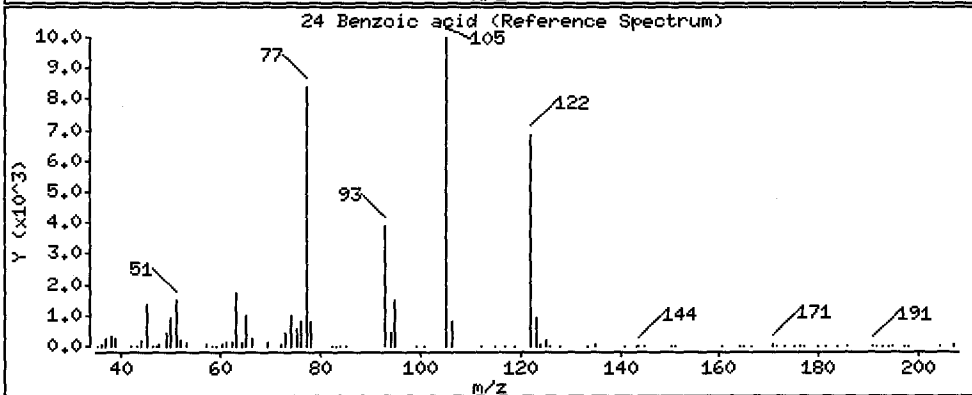
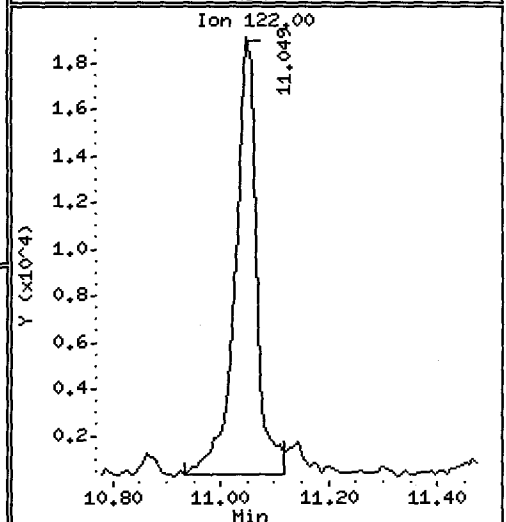
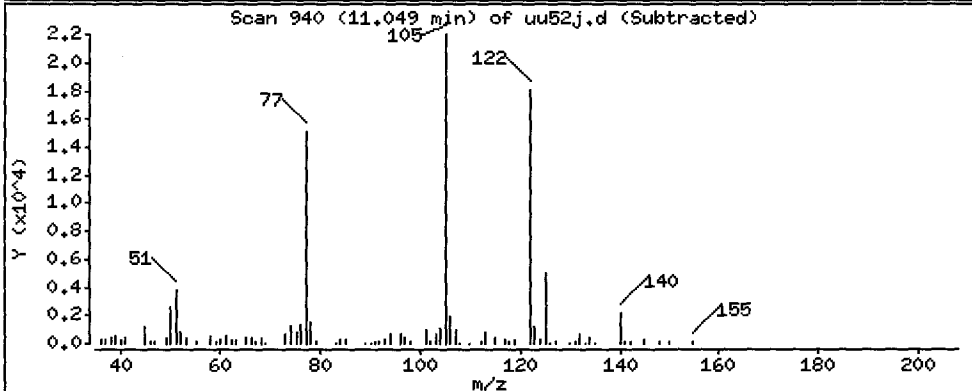
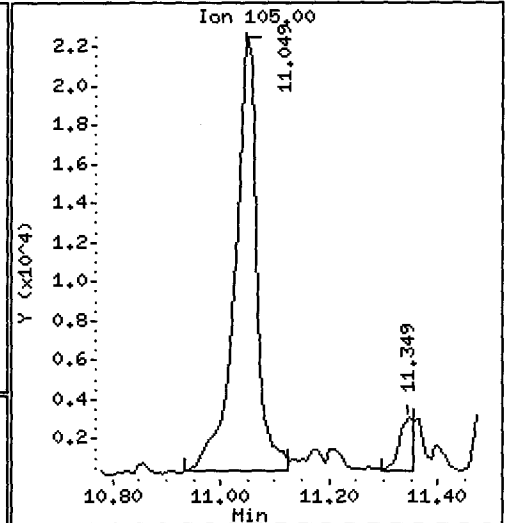
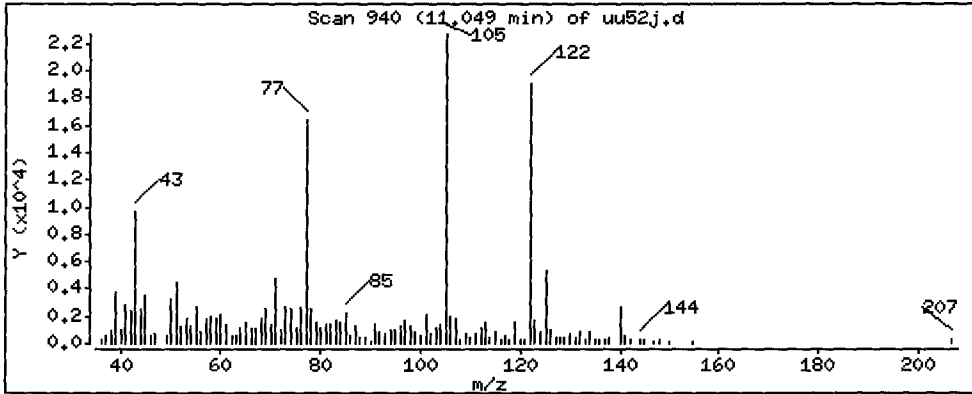
Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 407.1 ug/kg

UCR



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

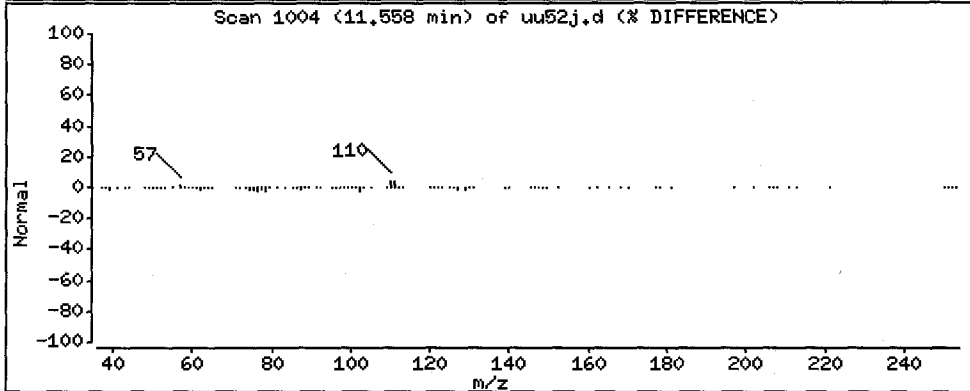
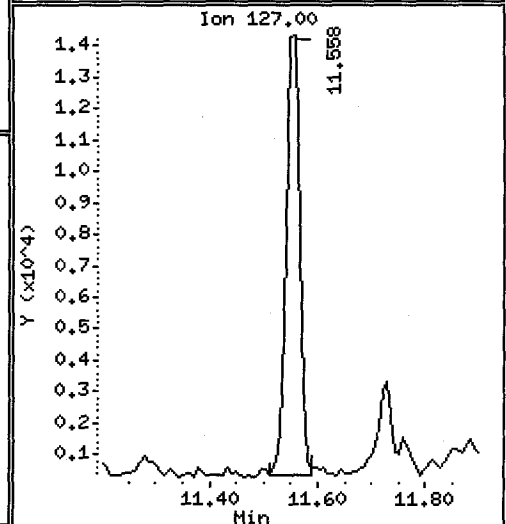
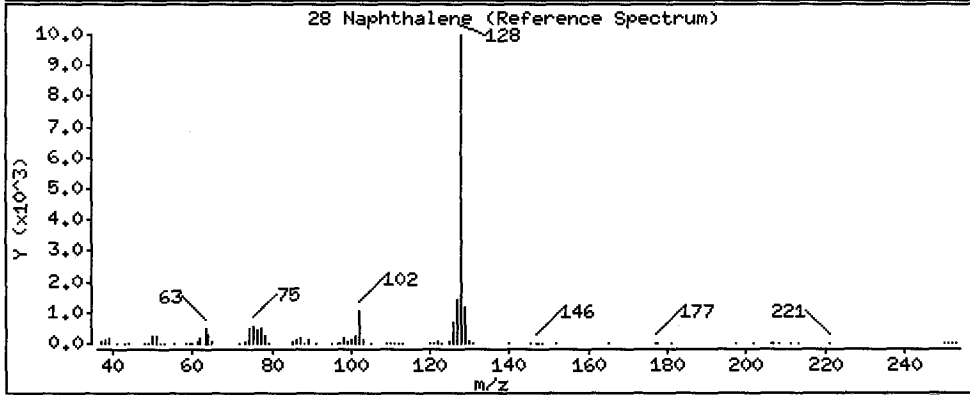
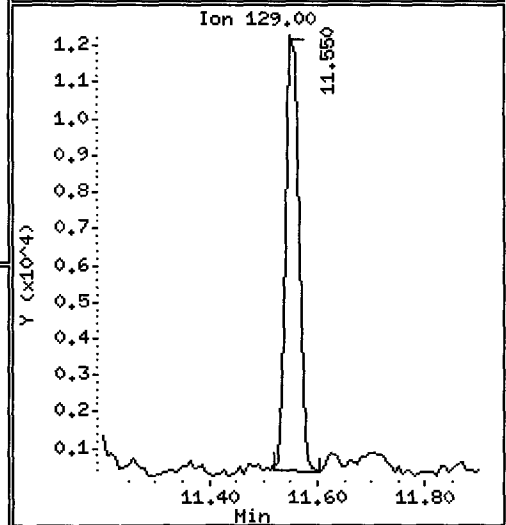
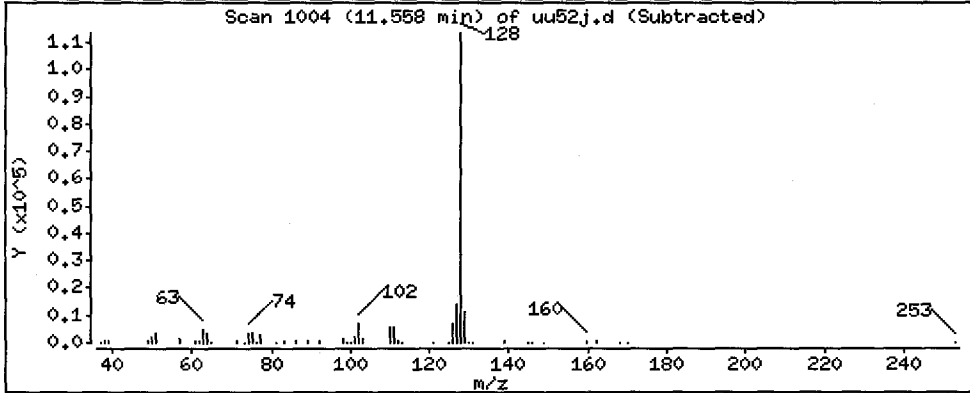
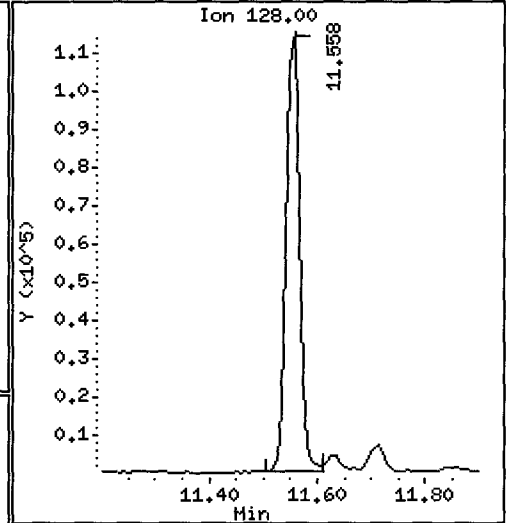
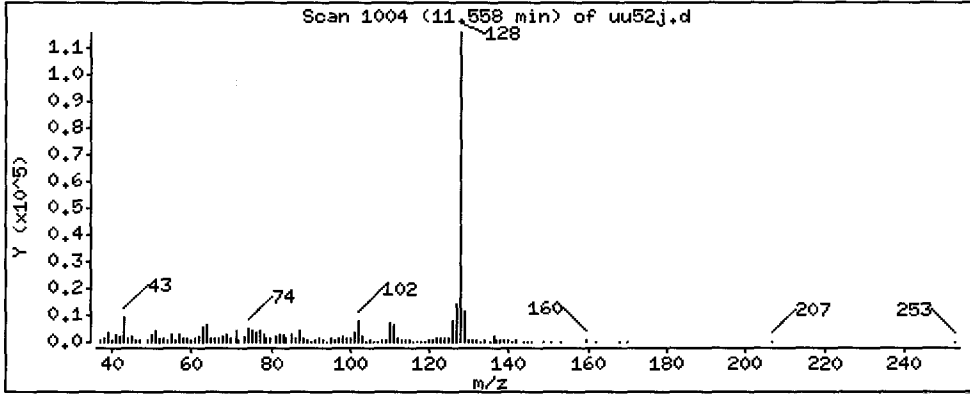
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 288.7 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

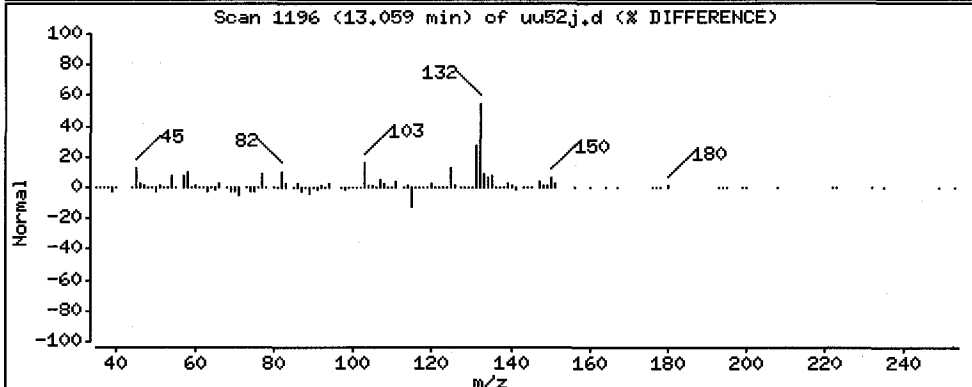
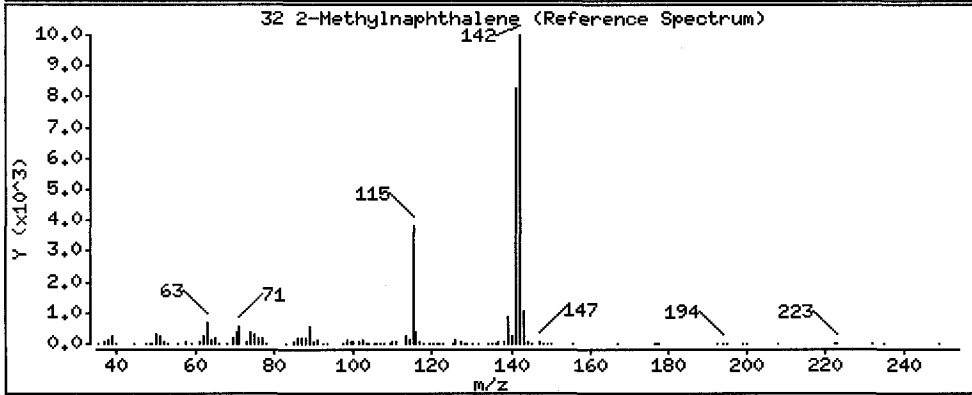
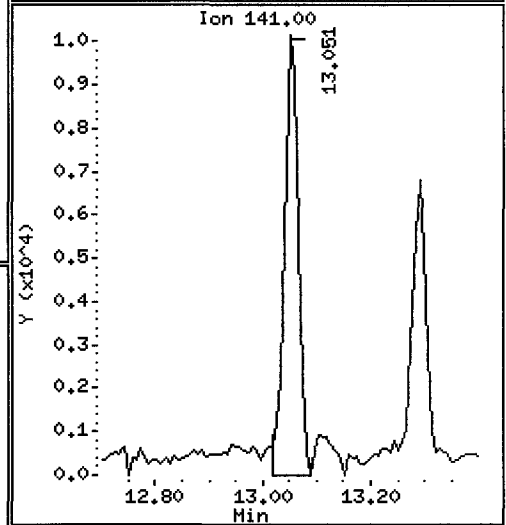
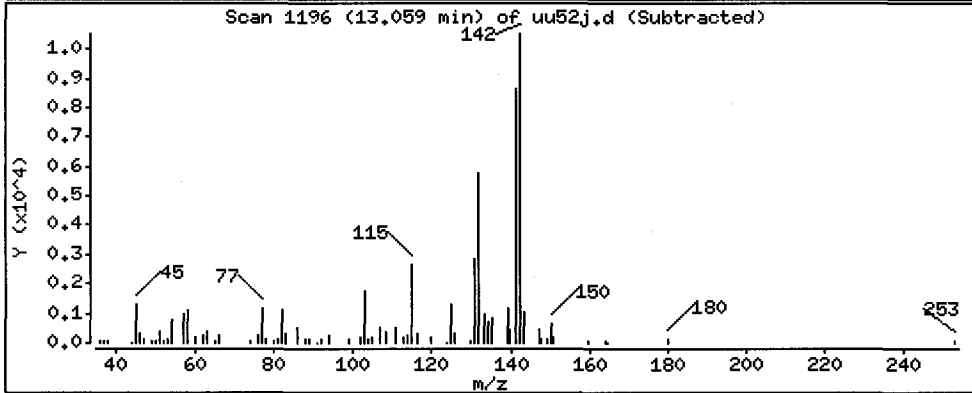
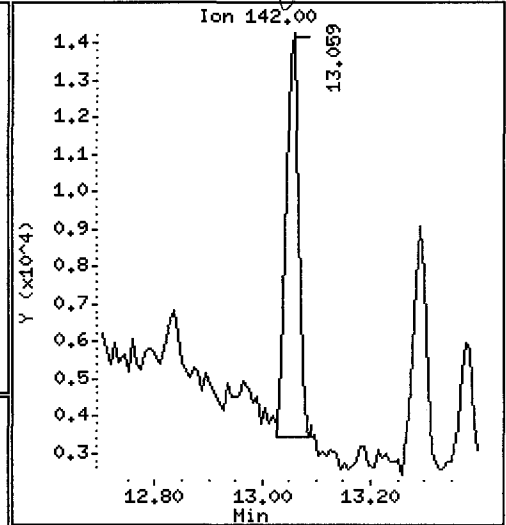
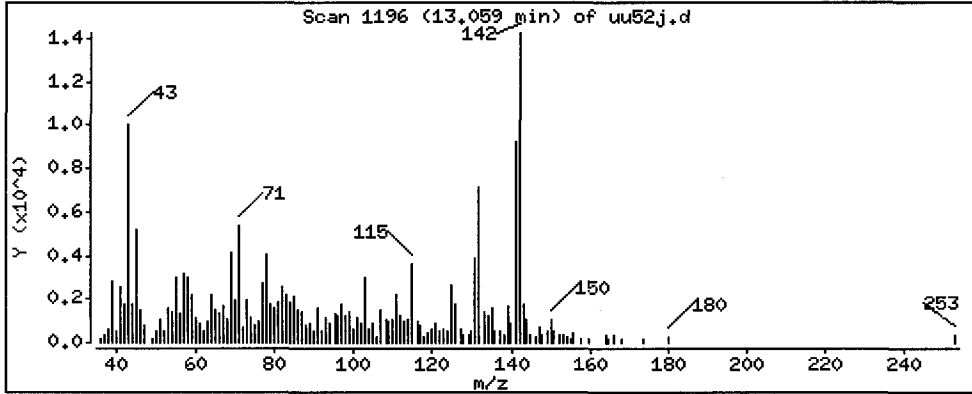
Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 37.18 ug/kg

DLA



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

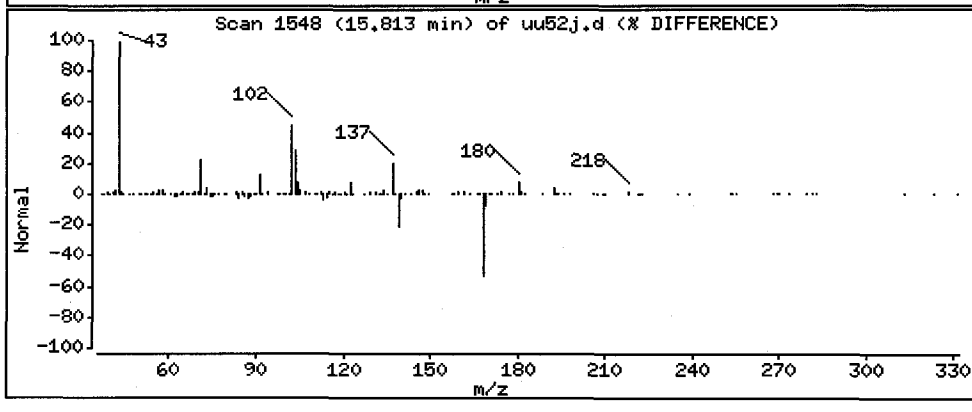
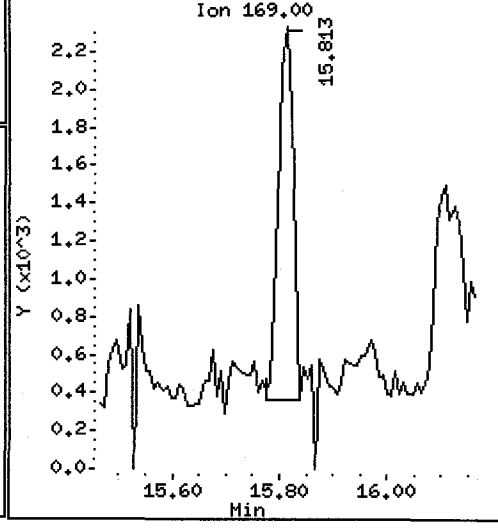
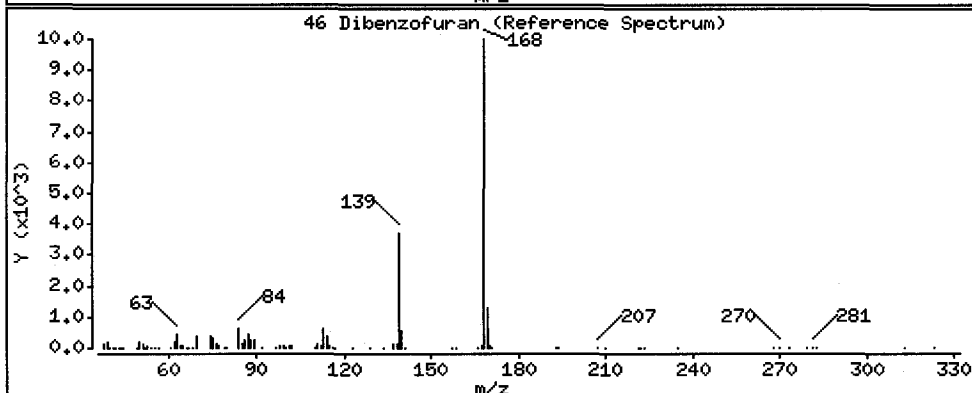
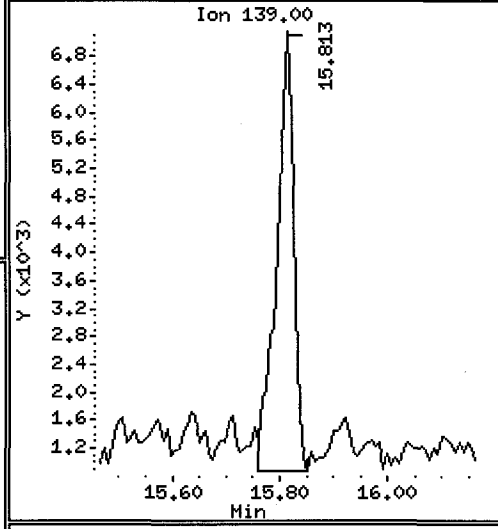
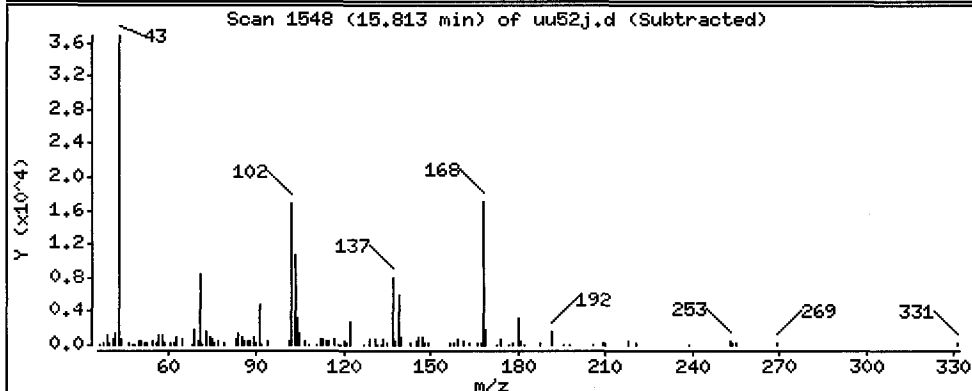
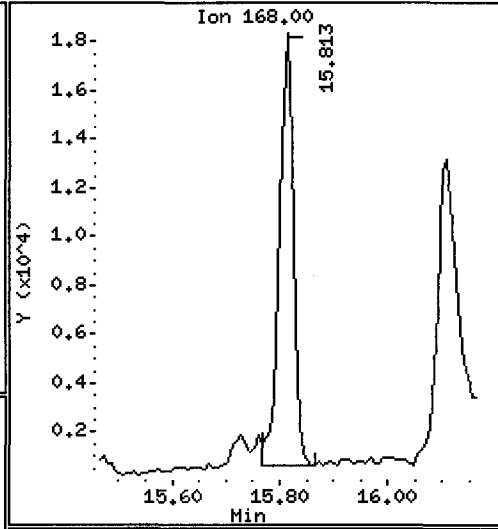
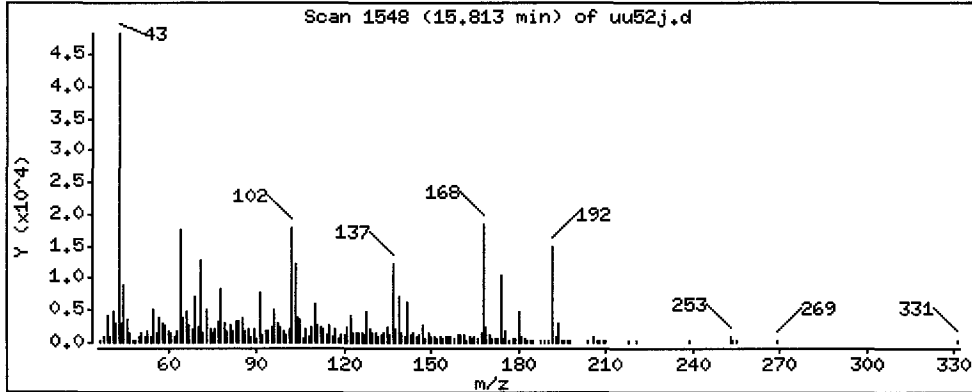
Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 52.73 ug/kg

FLR



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

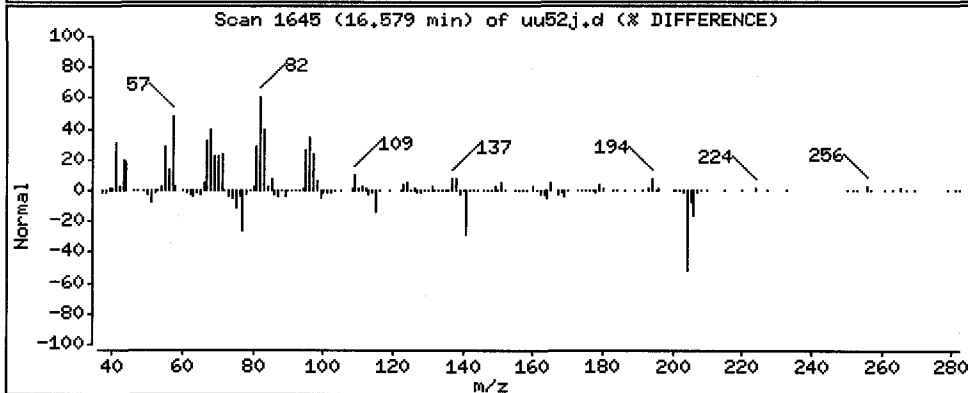
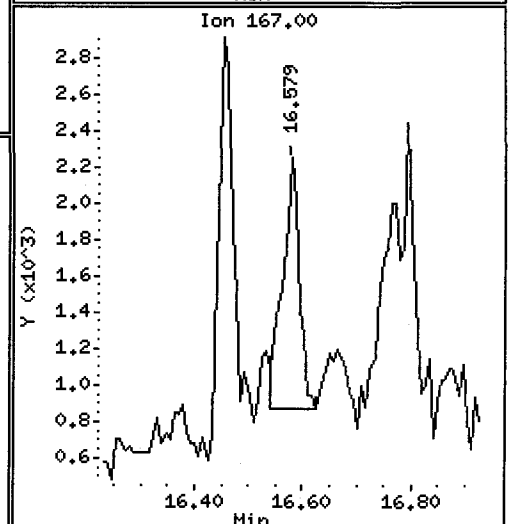
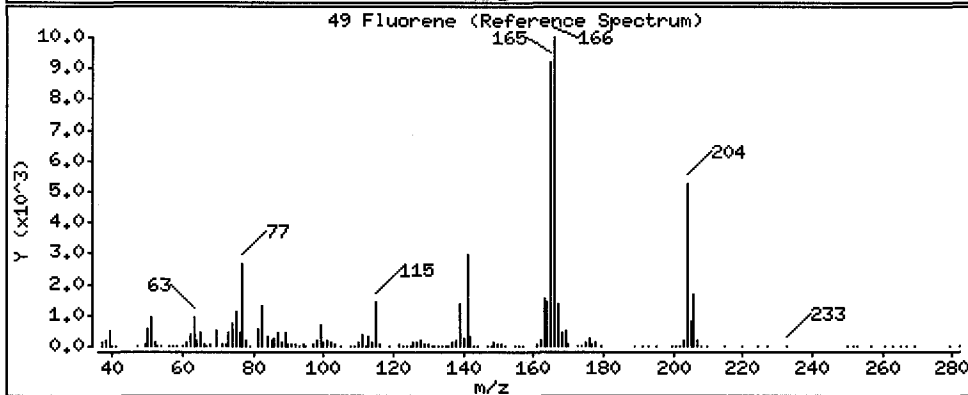
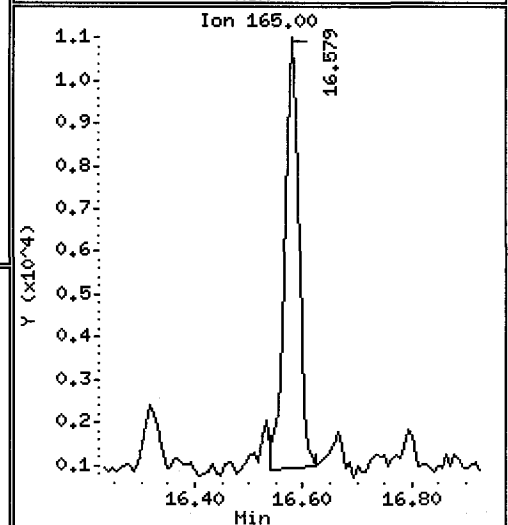
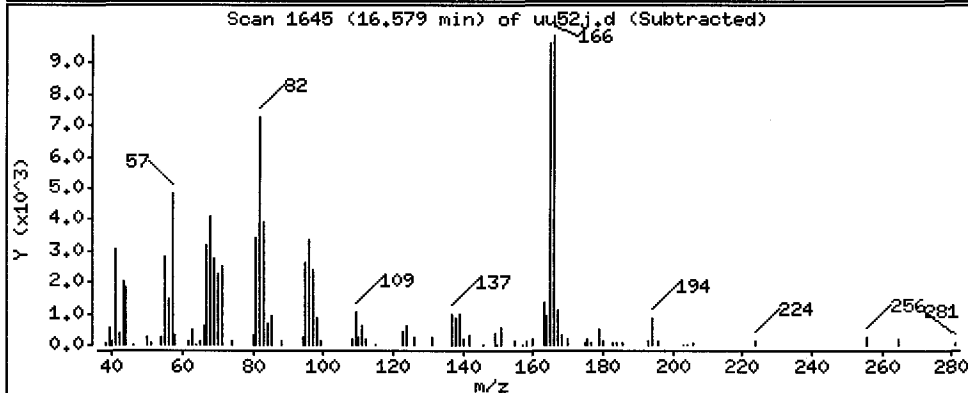
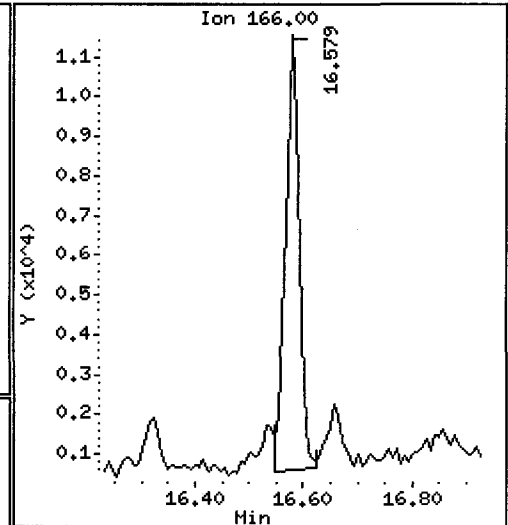
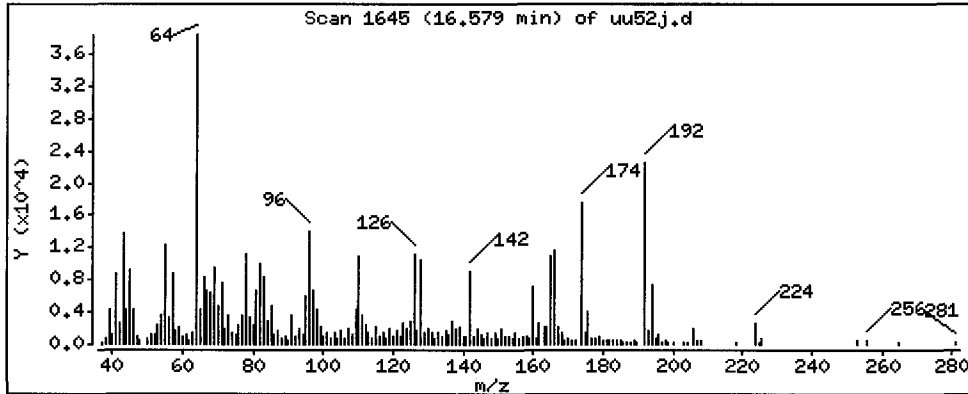
Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 43.01 ug/kg

FLAL



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

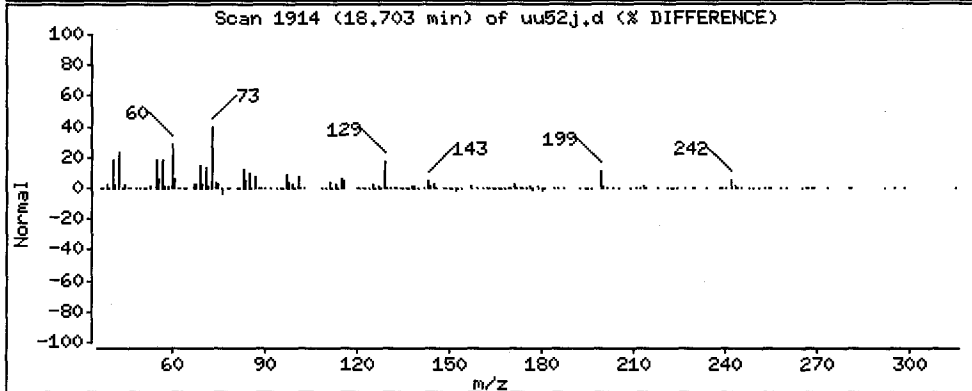
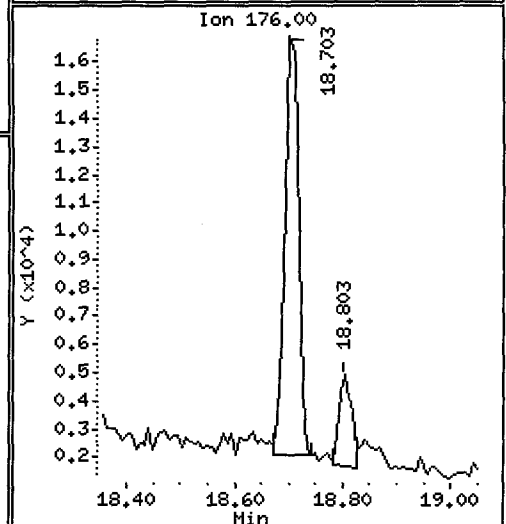
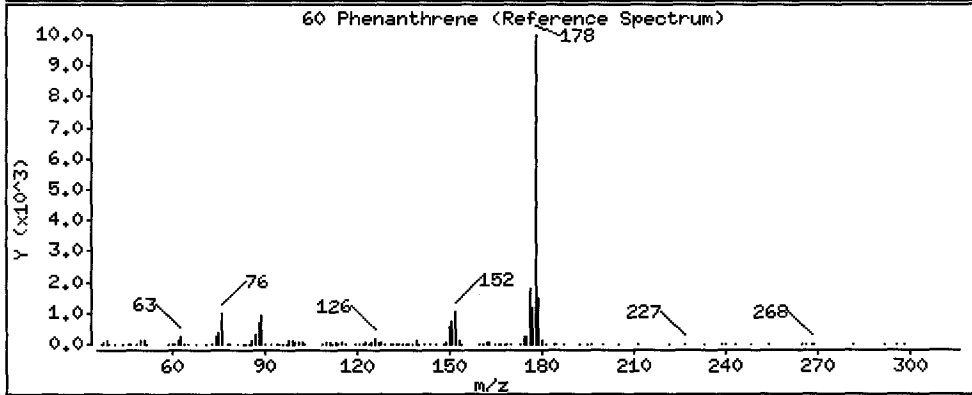
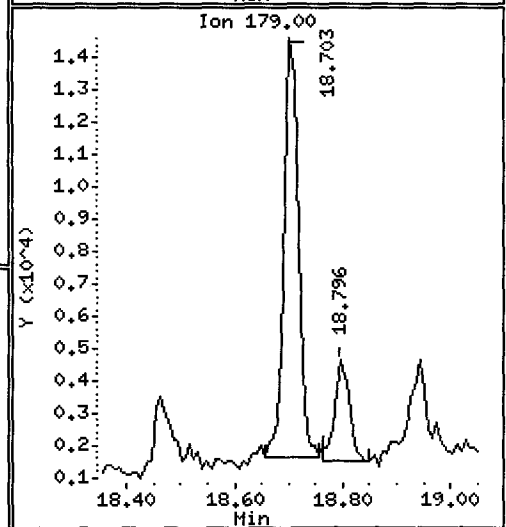
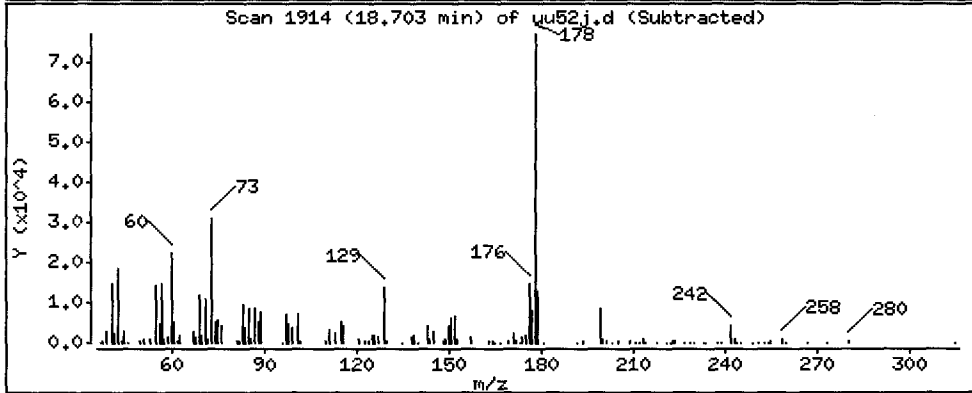
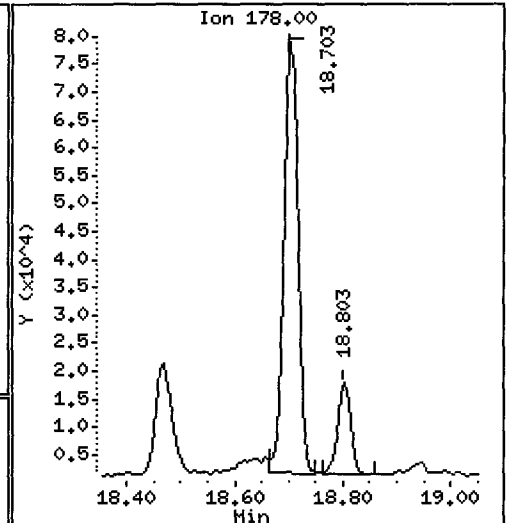
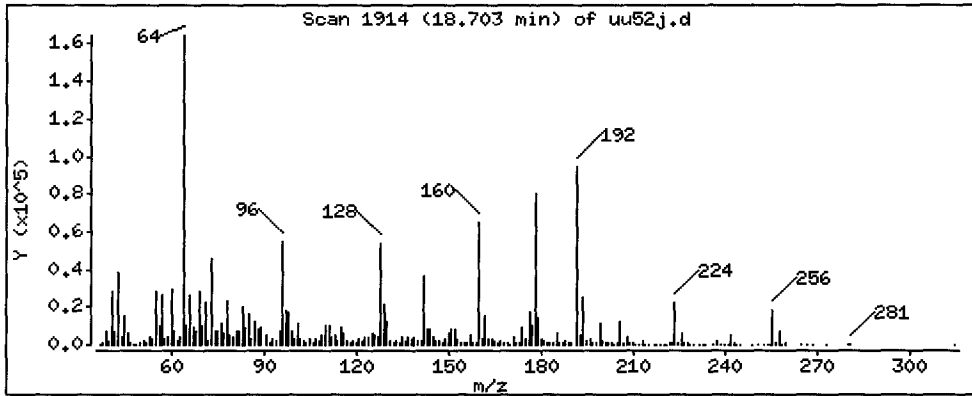
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 249.6 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

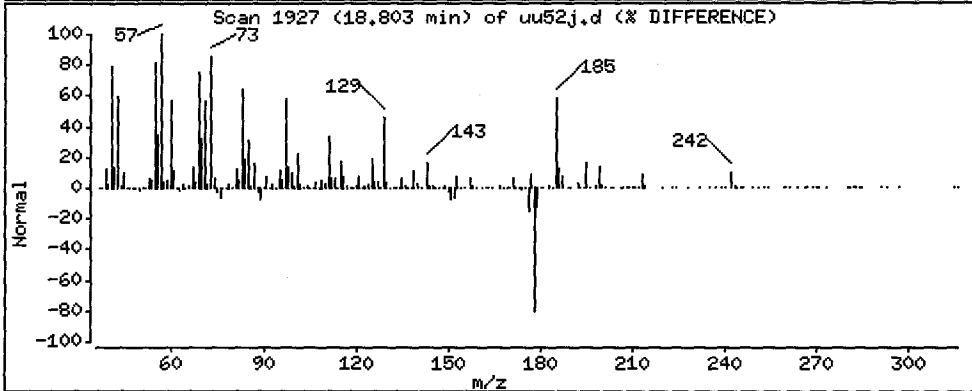
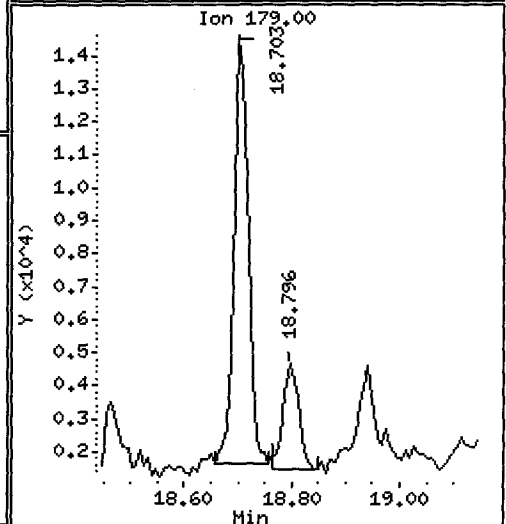
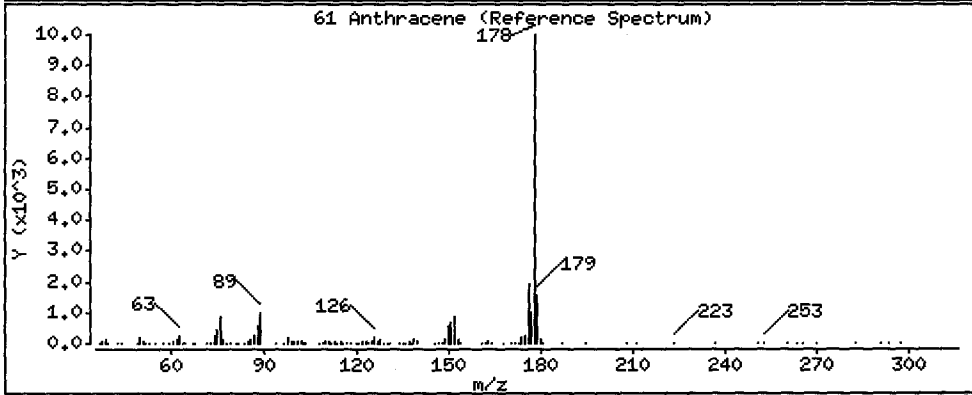
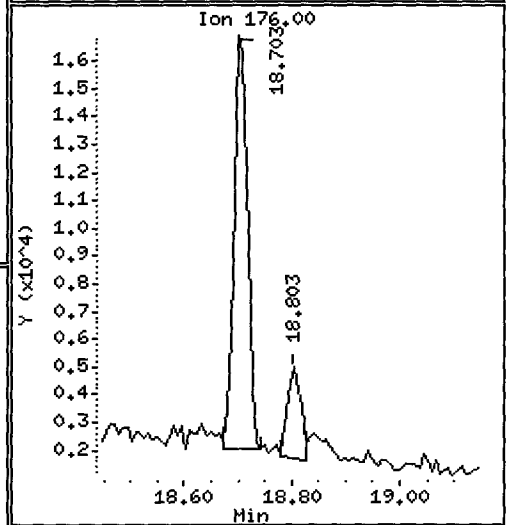
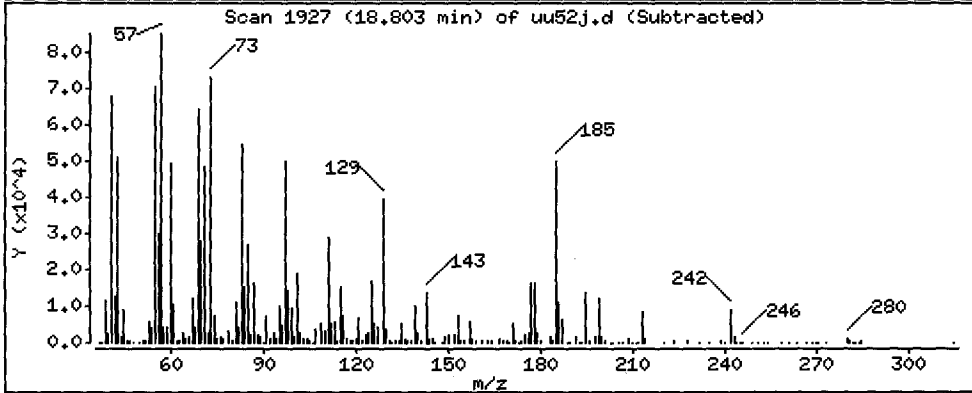
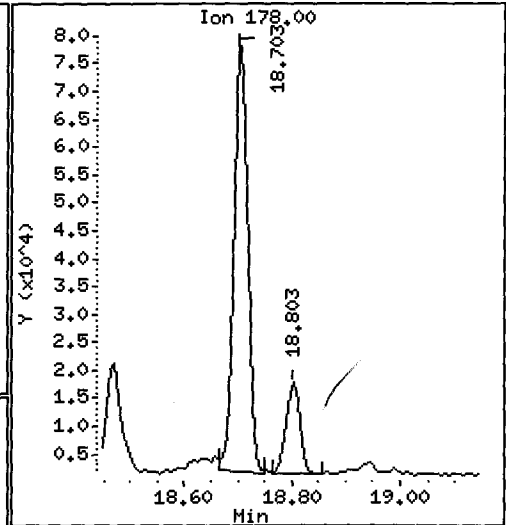
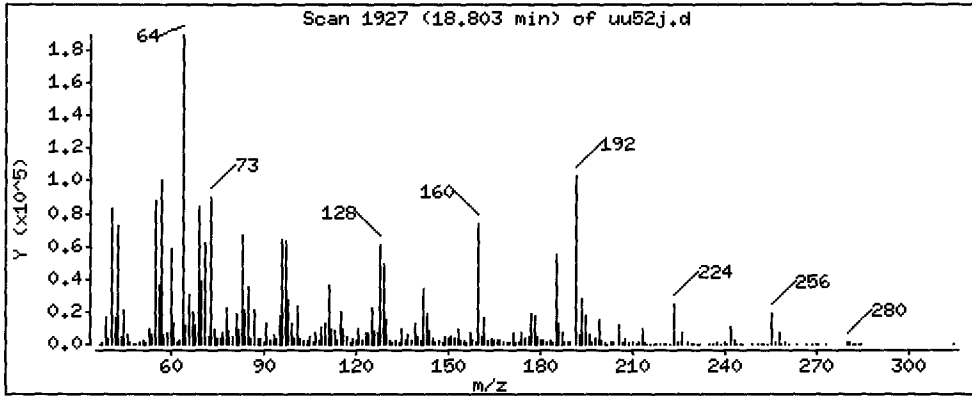
Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 51.59 ug/kg

JUR



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

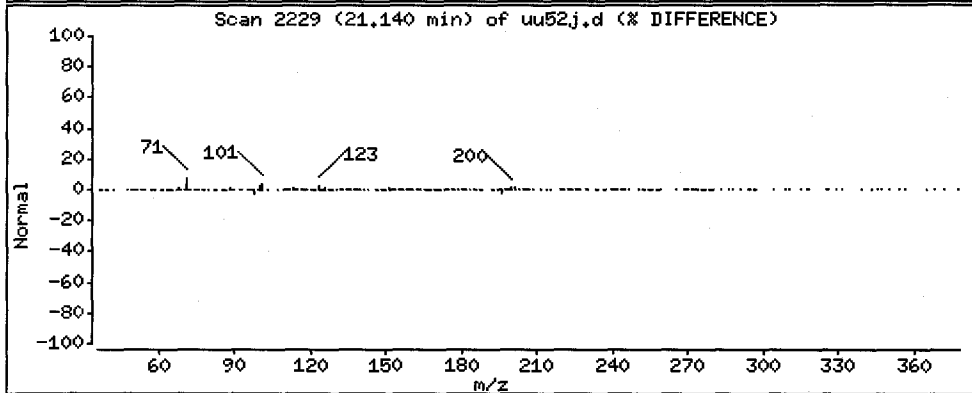
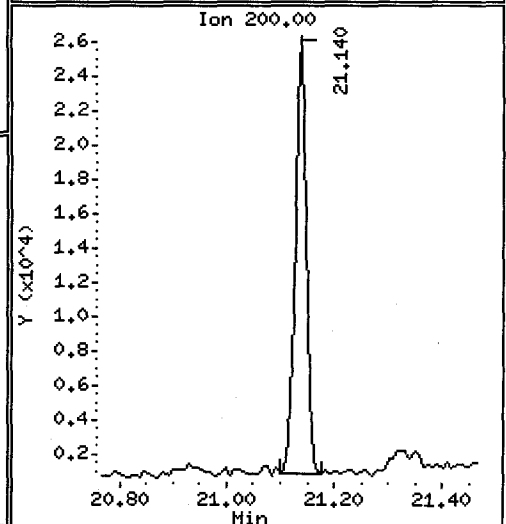
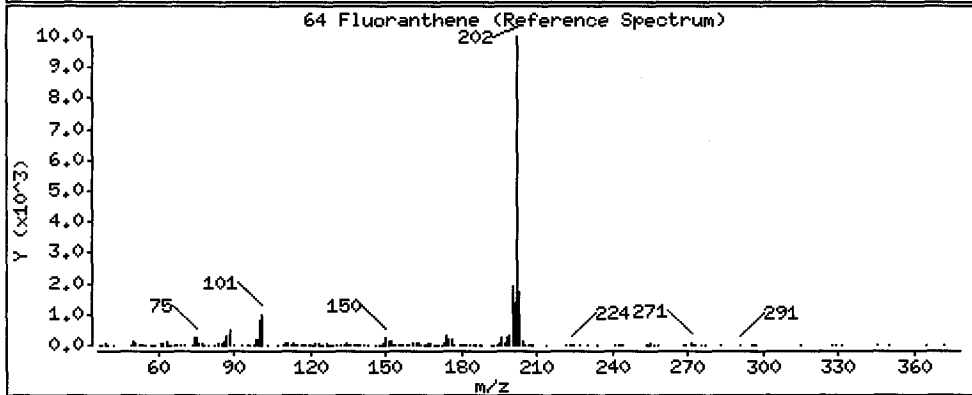
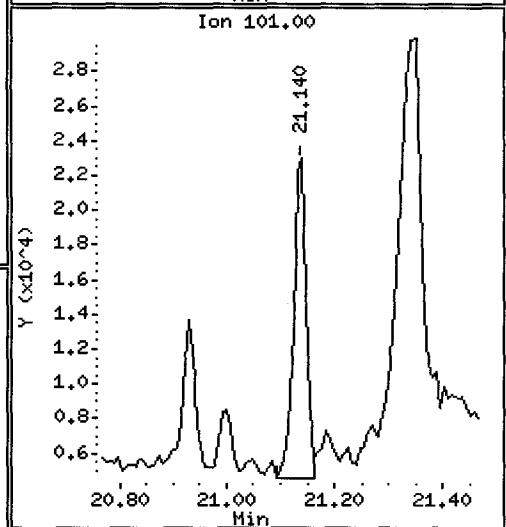
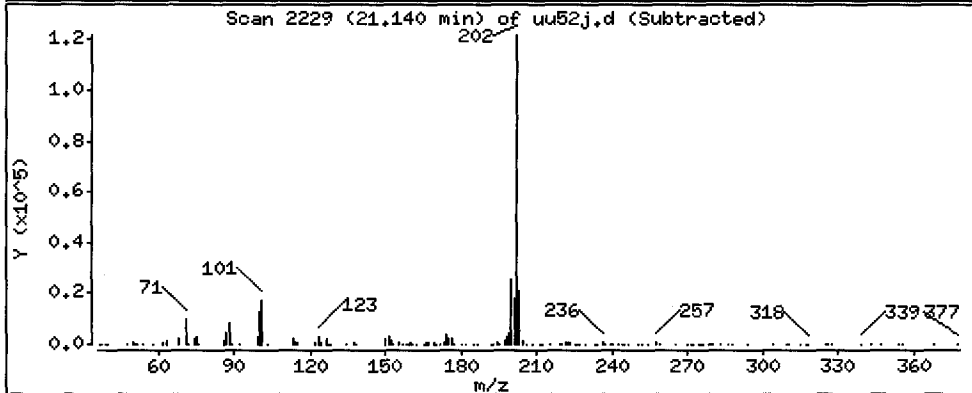
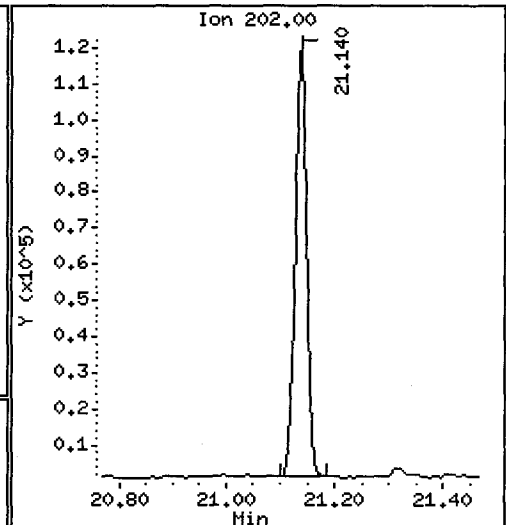
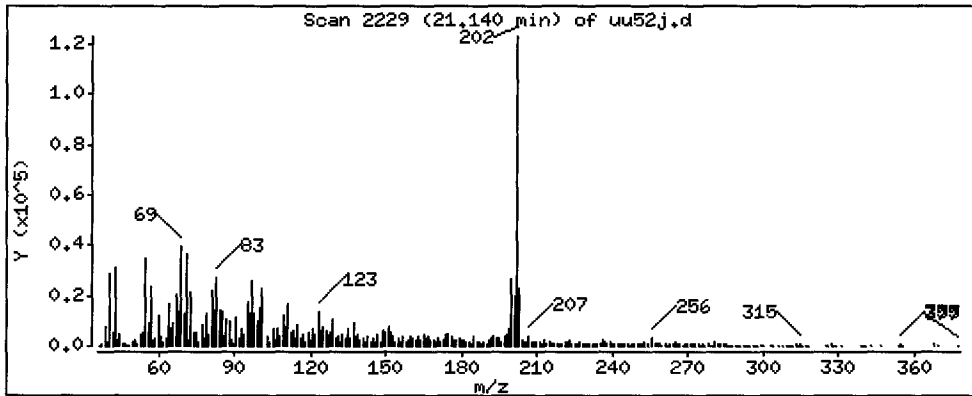
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 291.8 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

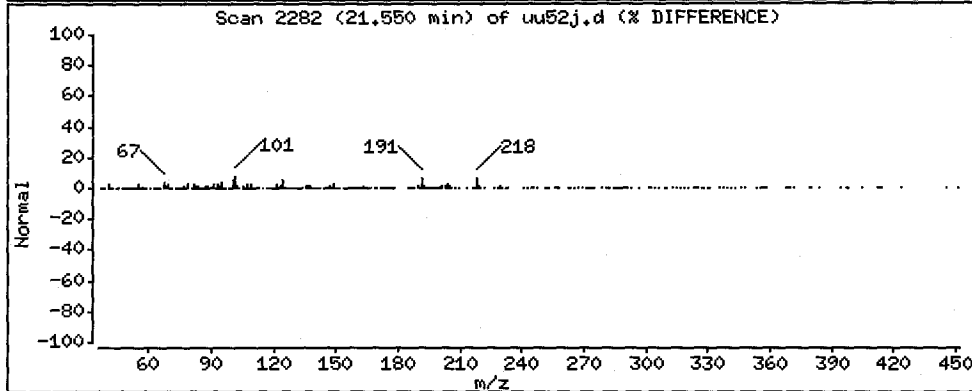
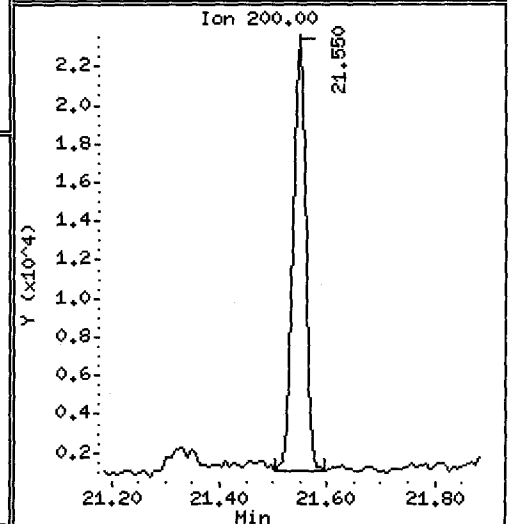
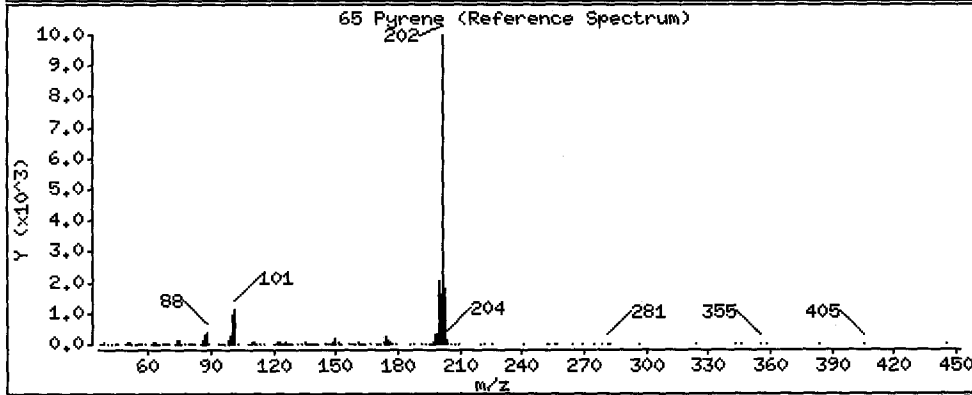
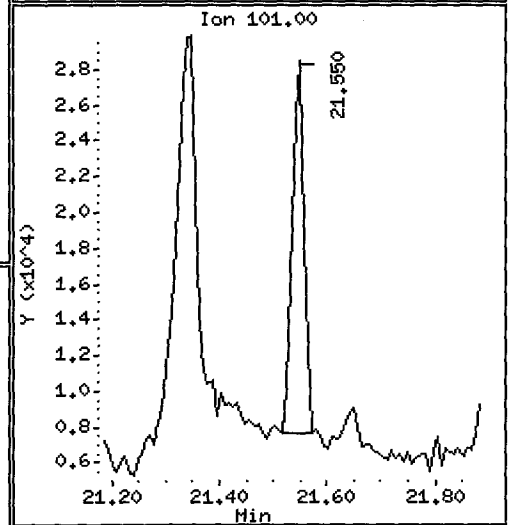
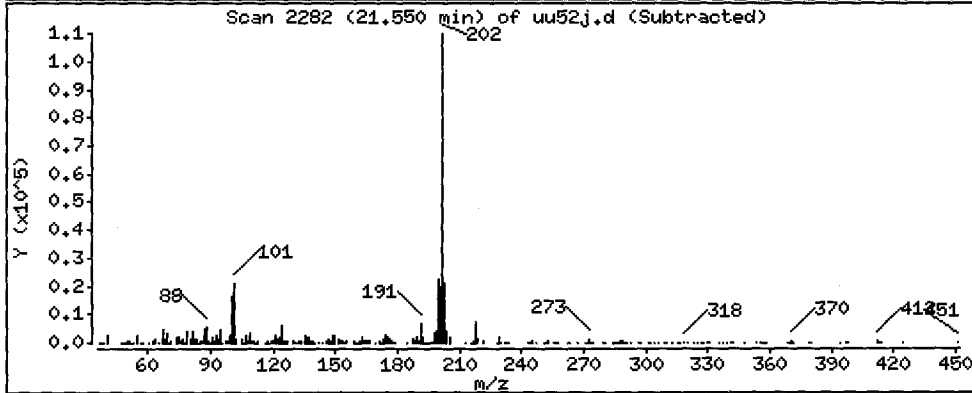
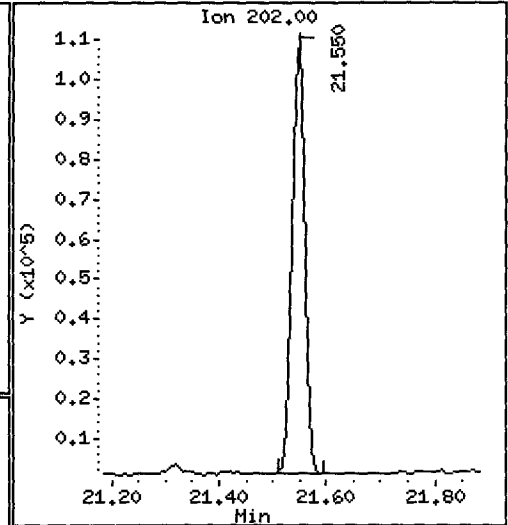
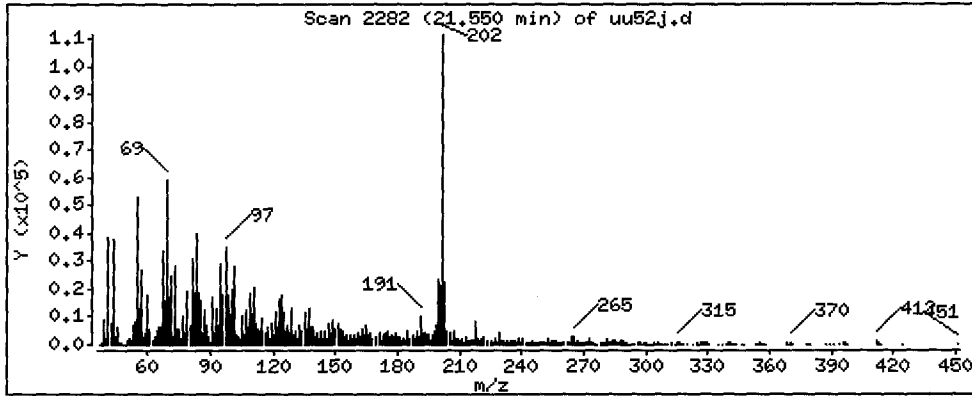
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 240.1 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

Operator: VTS/YZ

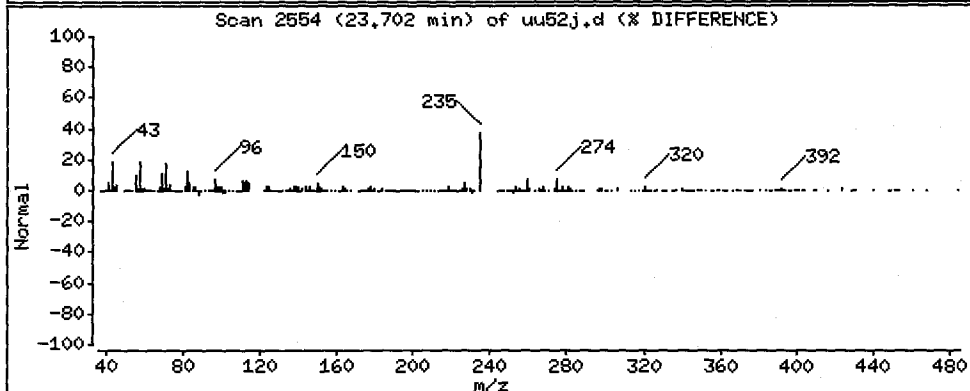
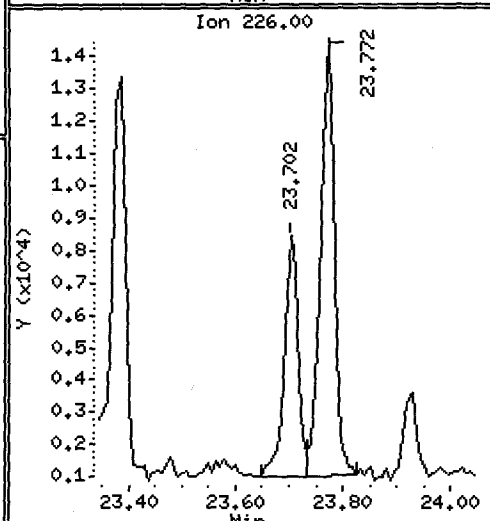
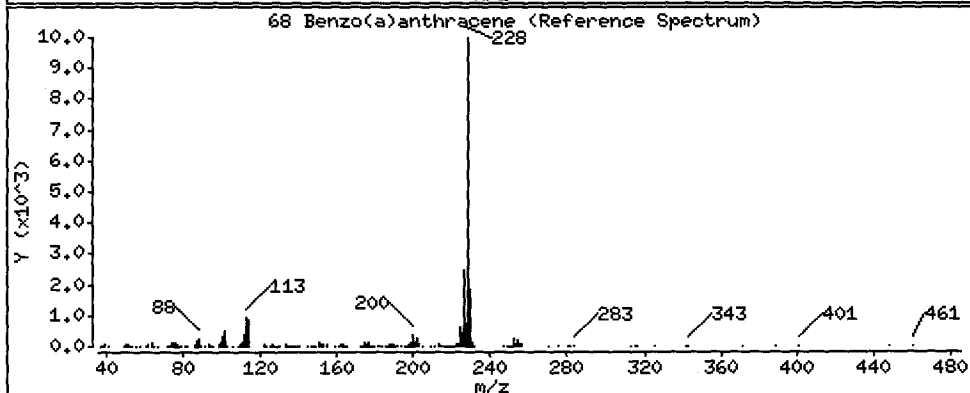
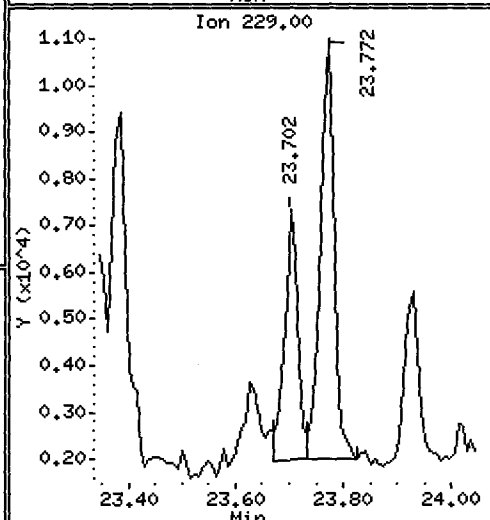
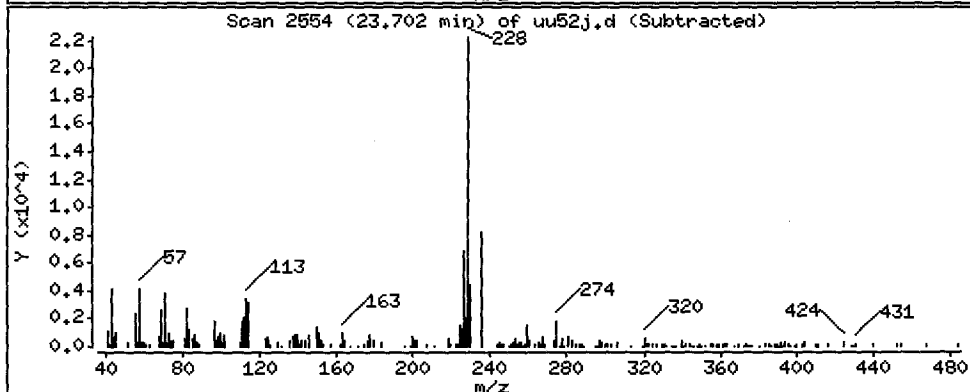
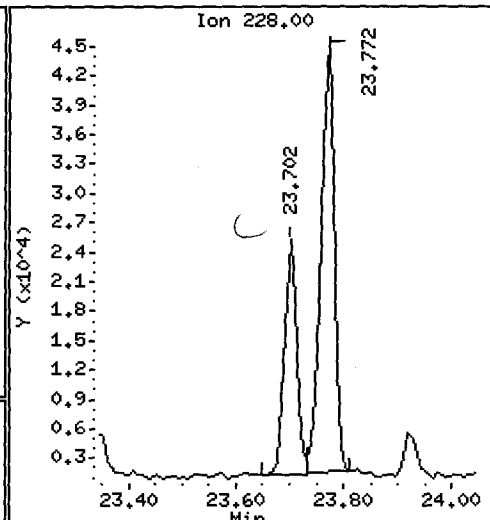
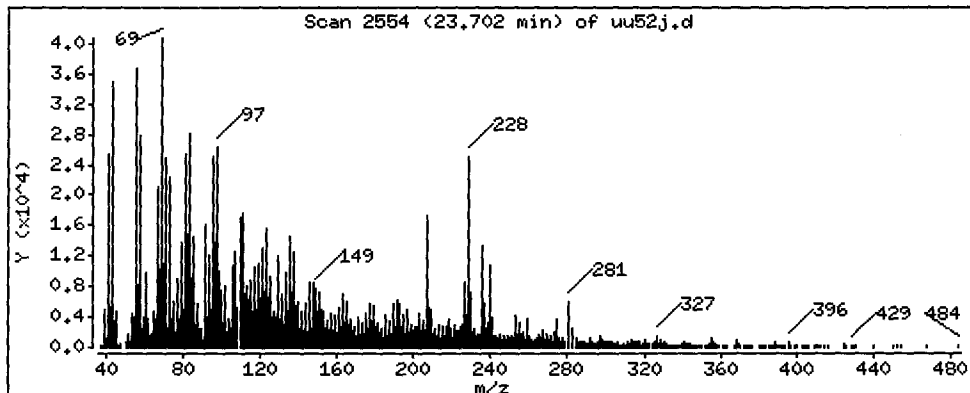
Column phase: ZB-5msi

Column diameter: 0.25

DCA

68 Benzo(a)anthracene

Concentration: 56.44 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

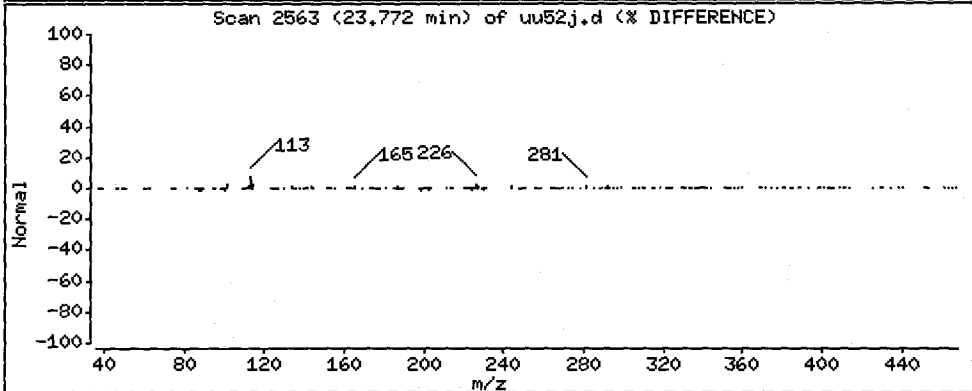
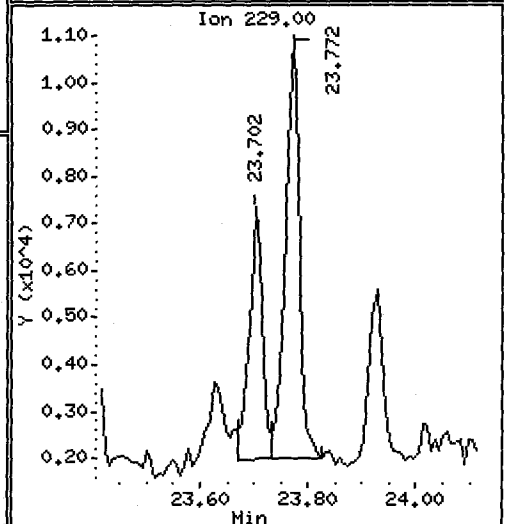
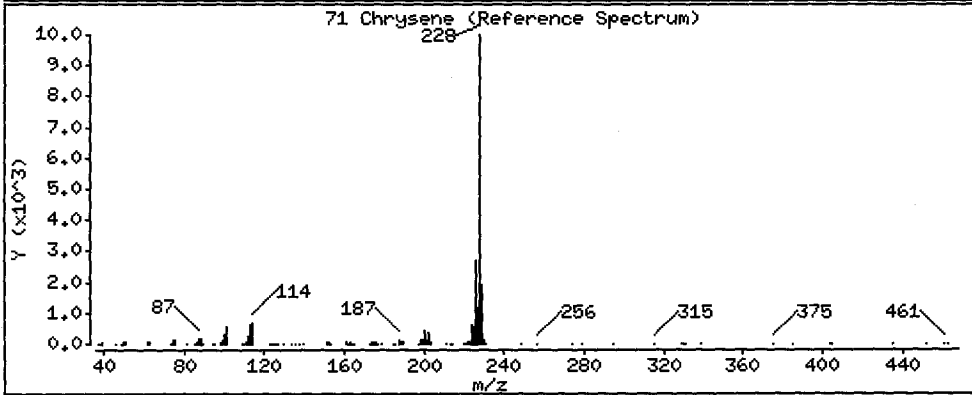
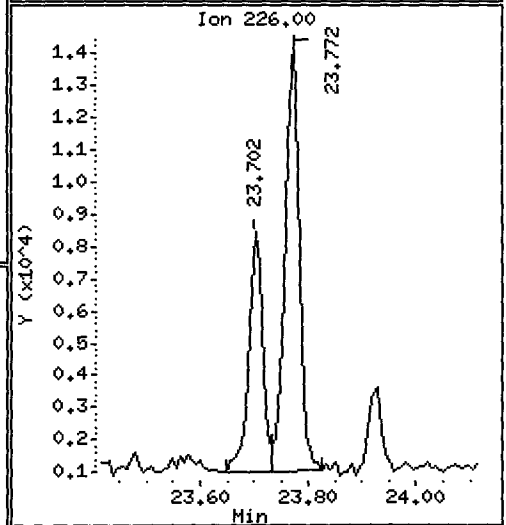
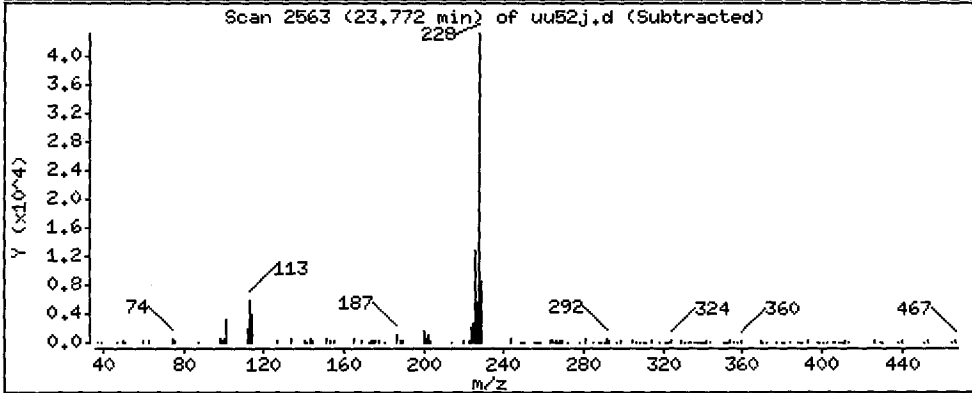
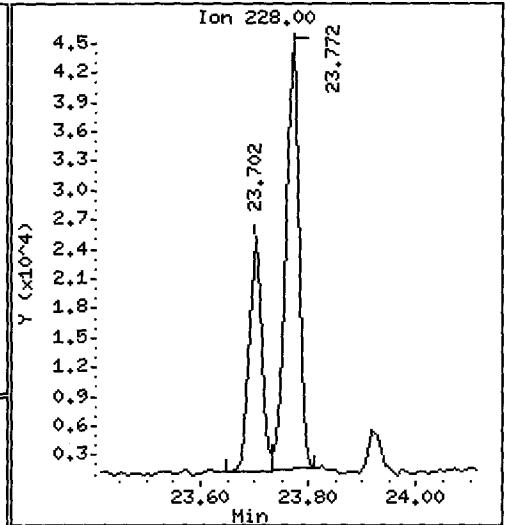
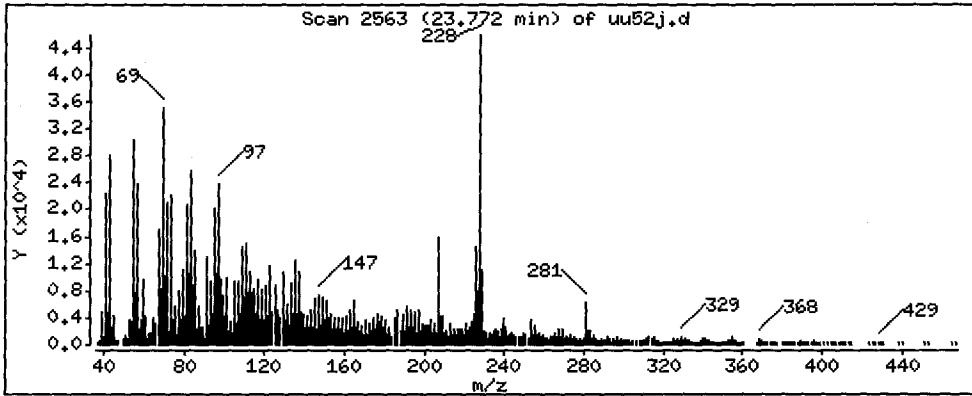
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 120.4 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

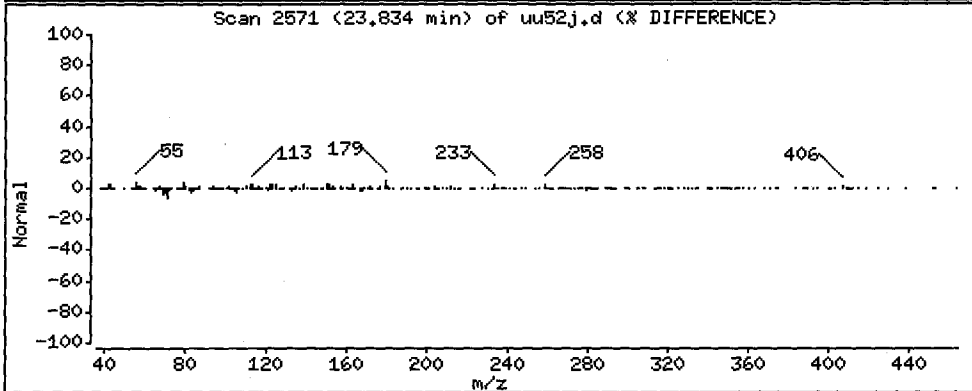
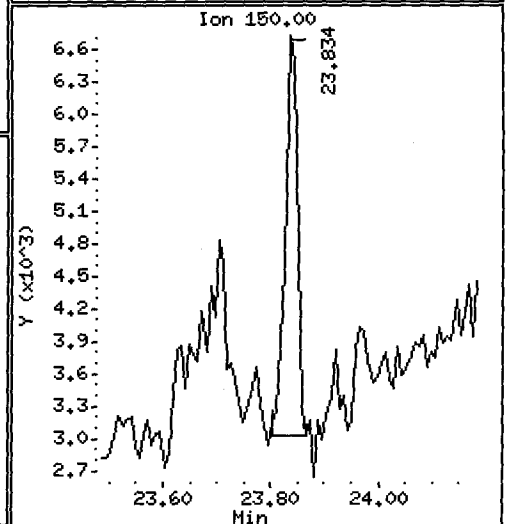
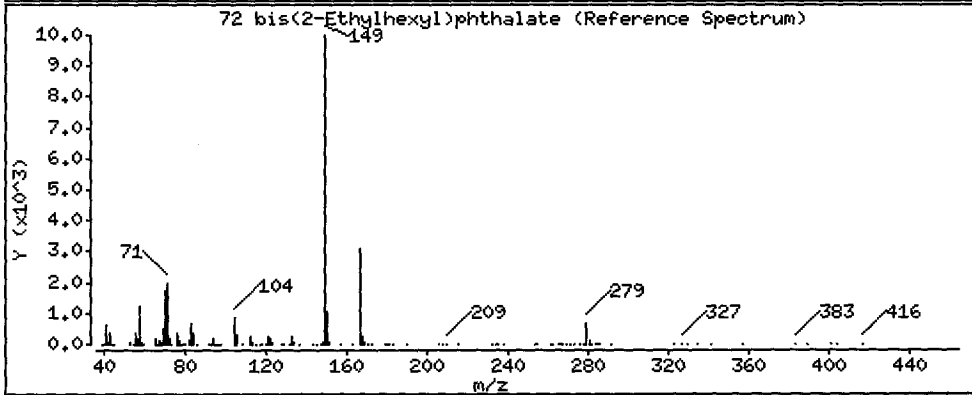
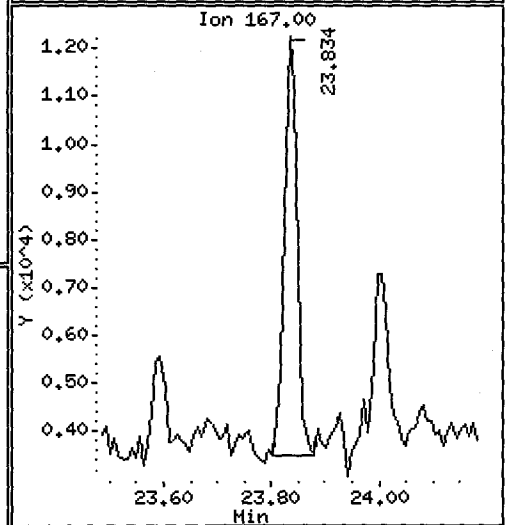
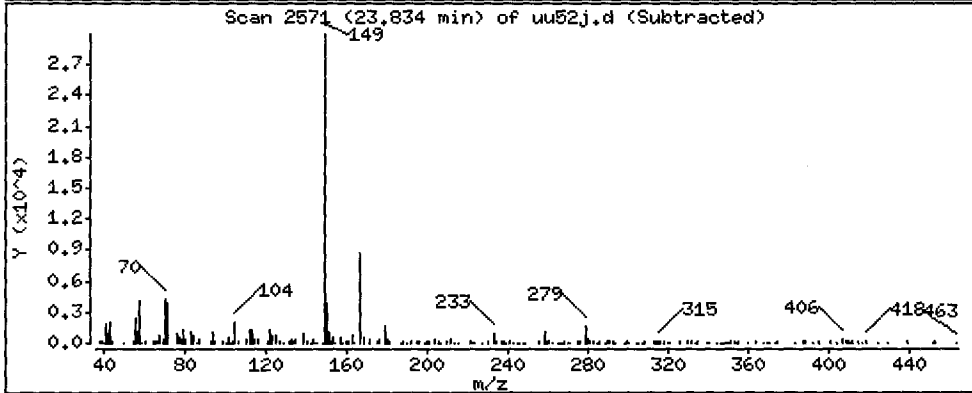
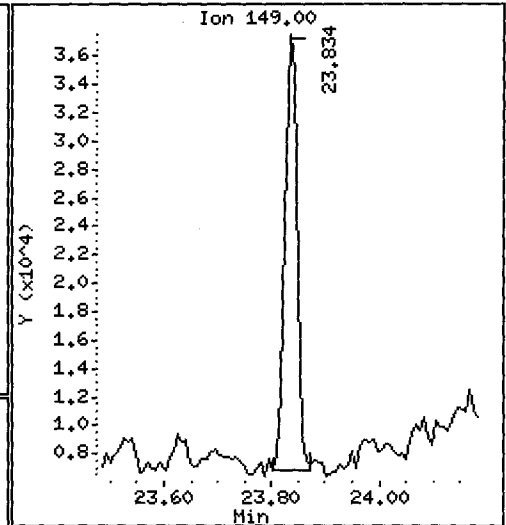
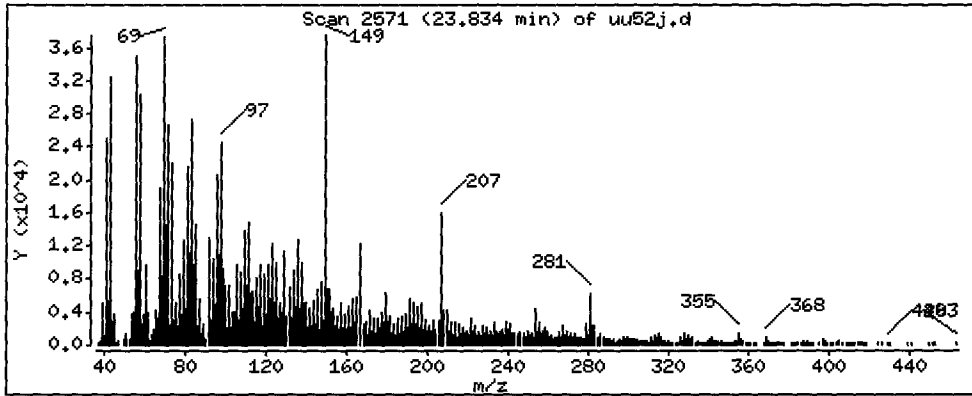
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

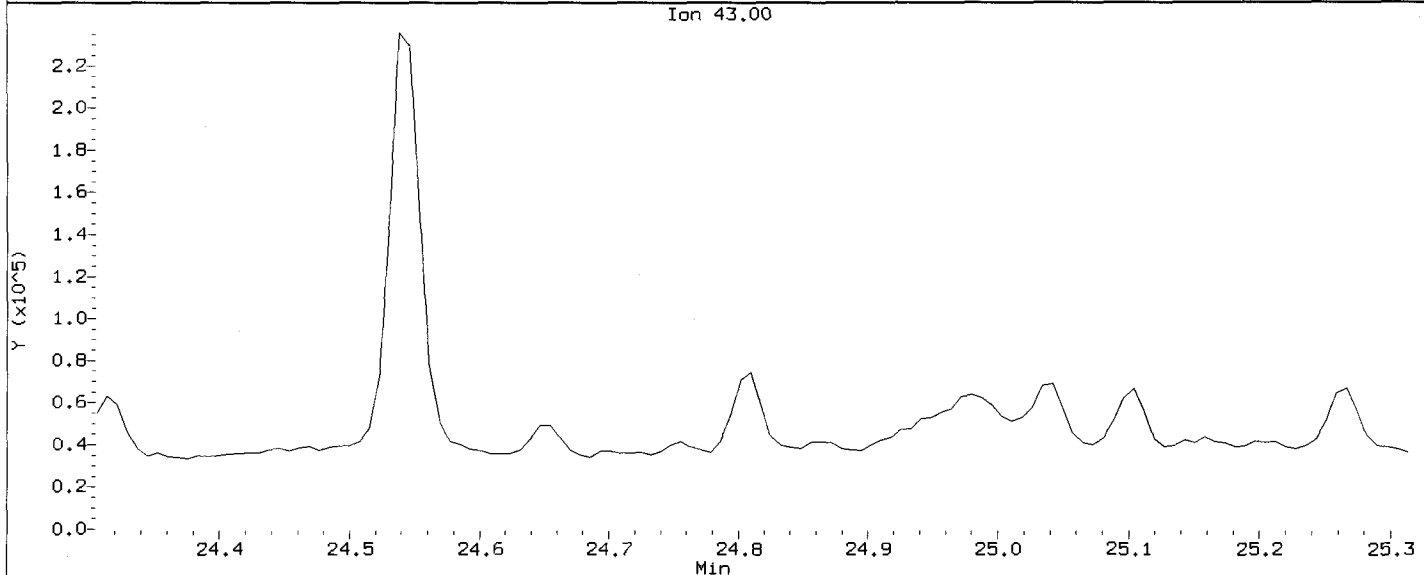
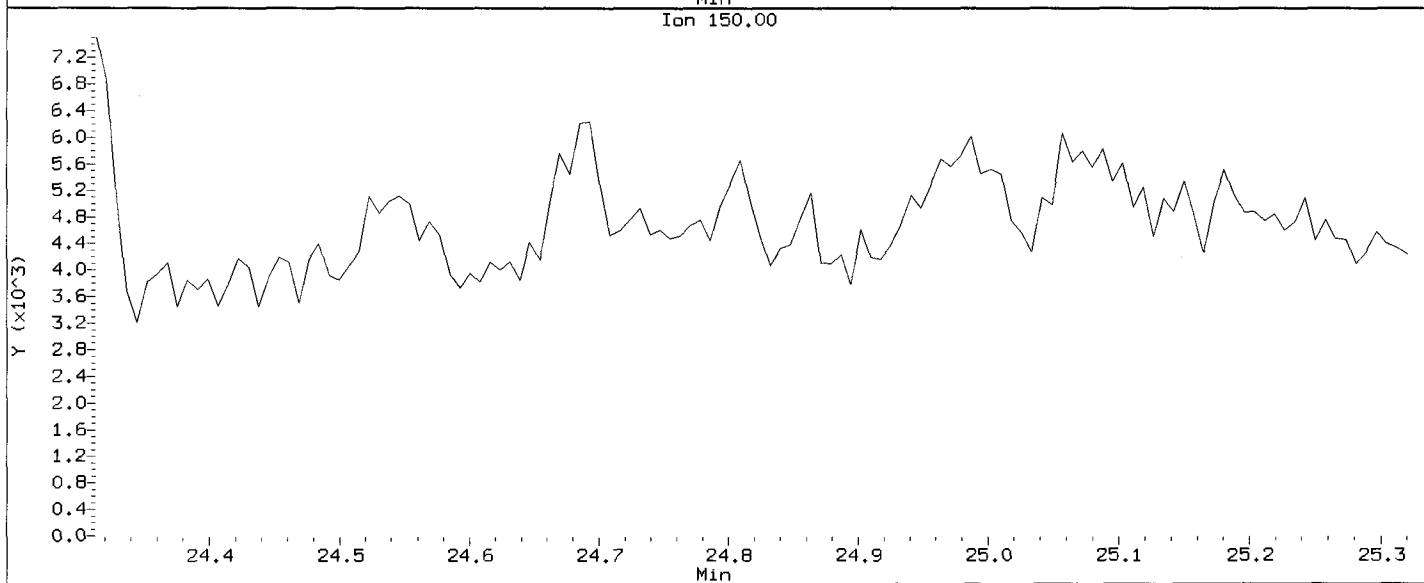
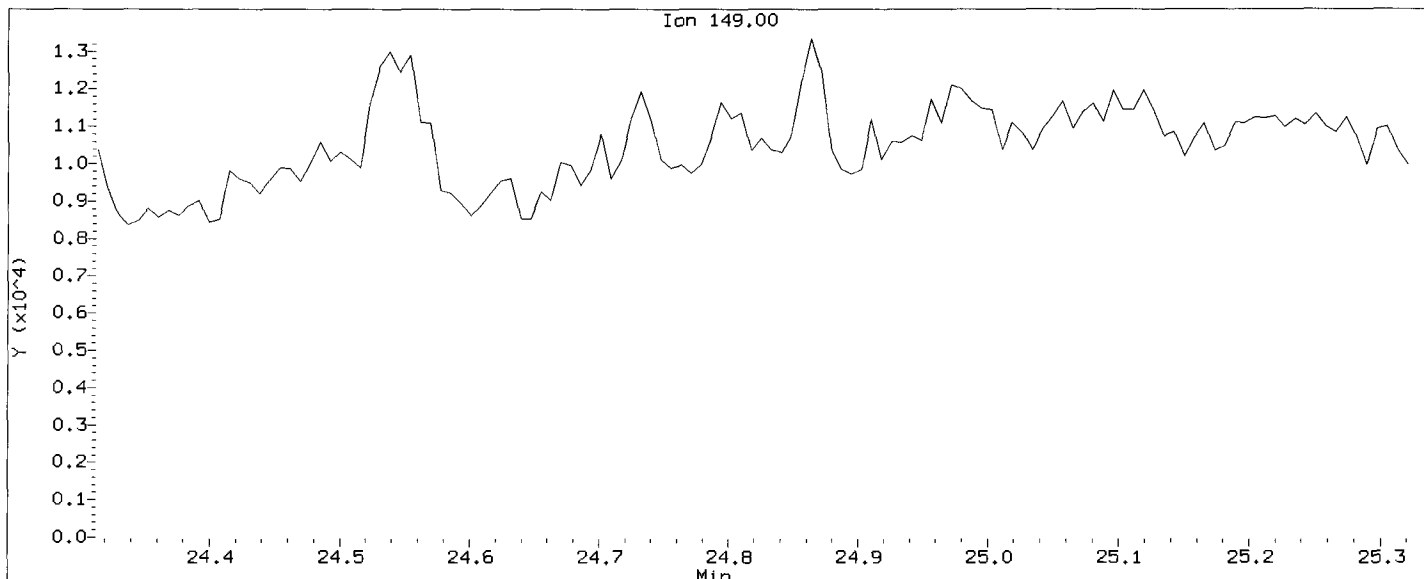
72 bis(2-Ethylhexyl)phthalate

Concentration: 91.49 ug/kg



Data File: /chem1/nt10.i/20120529.b/uu52j.d
Injection Date: 29-MAY-2012 13:33
Instrument: nt10.i
Client Sample ID: MS009-SS-120515

Compound: Di-n-octylphthalate
CAS Number: 117-84-0



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

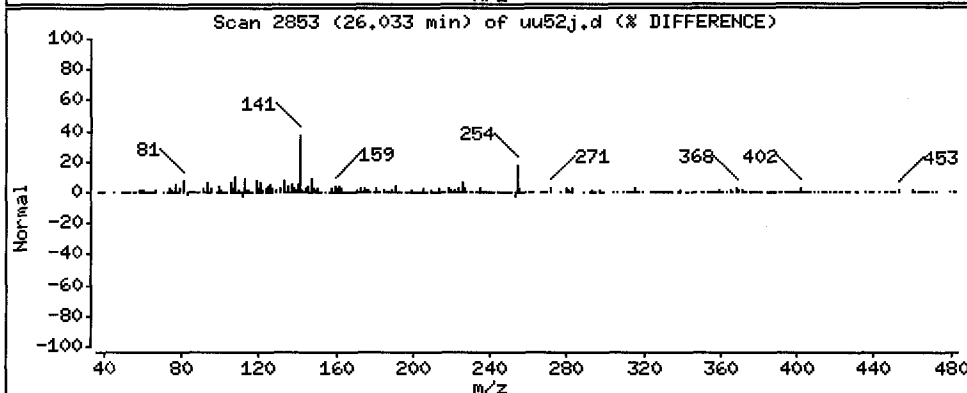
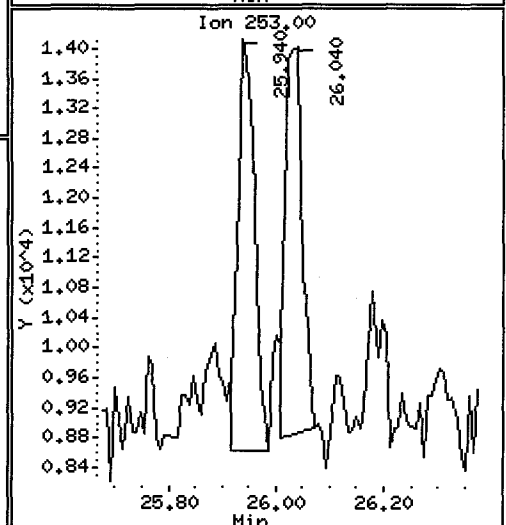
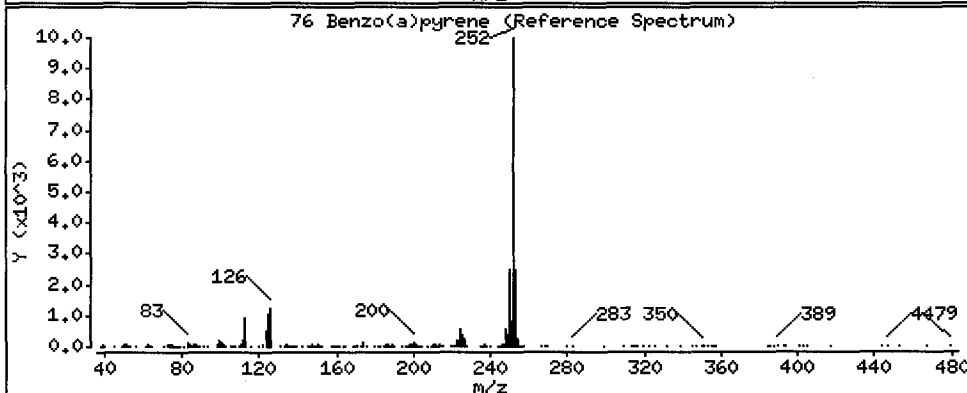
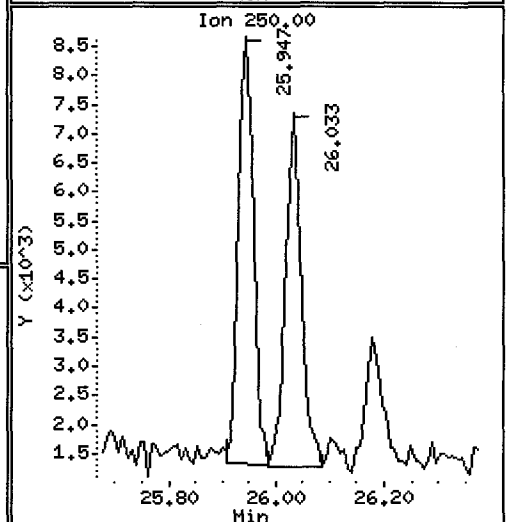
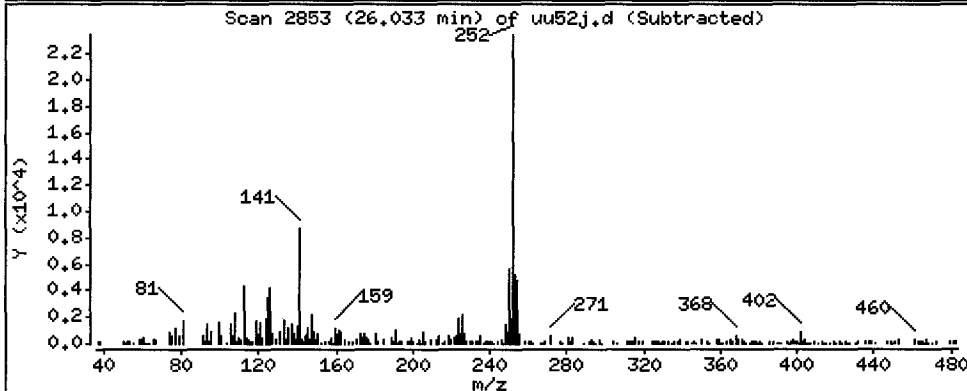
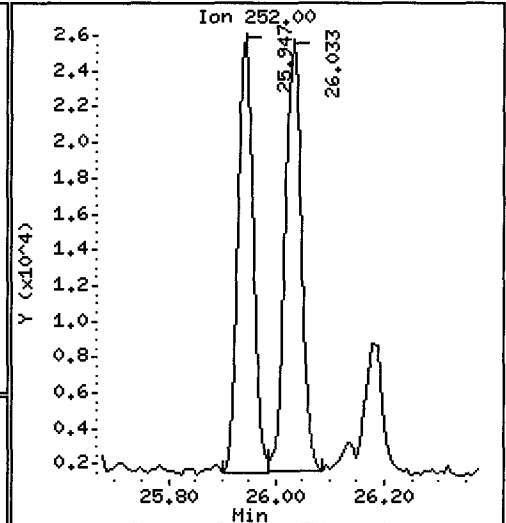
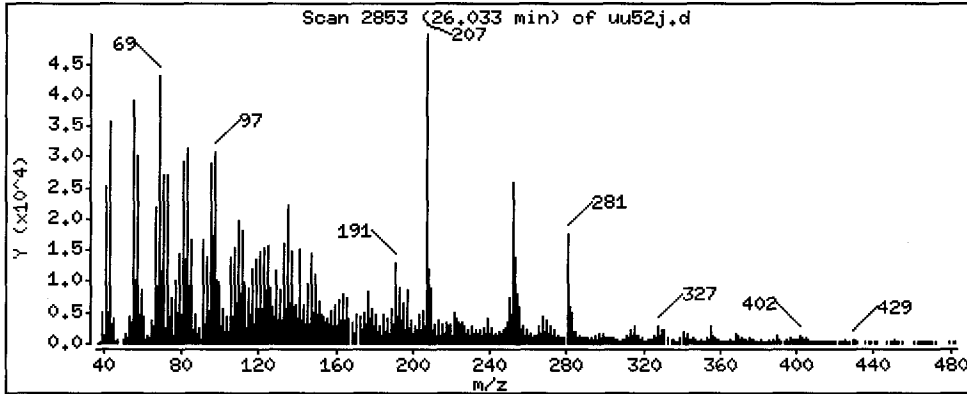
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 81.54 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

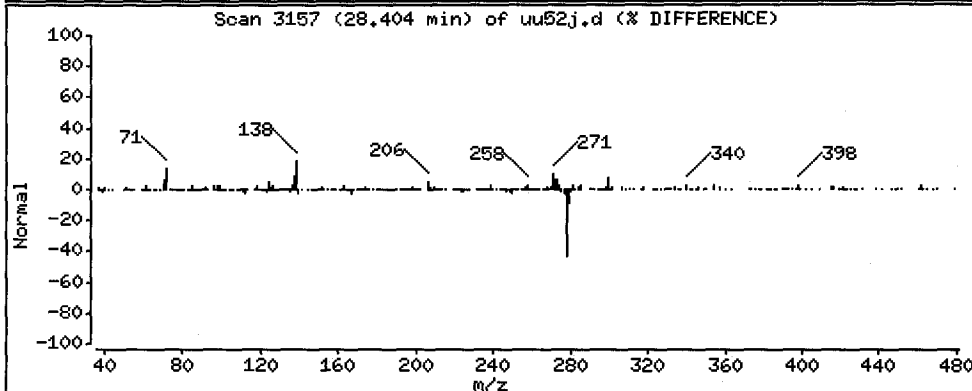
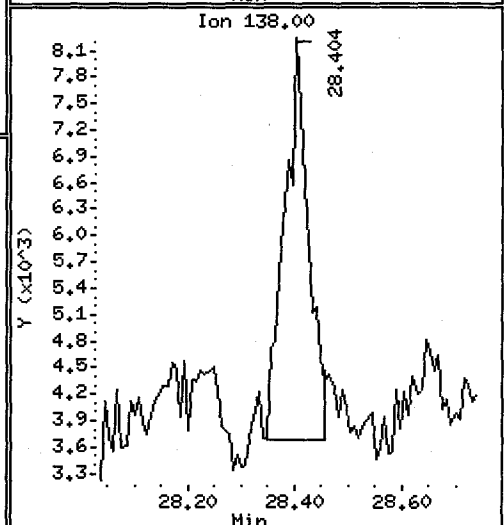
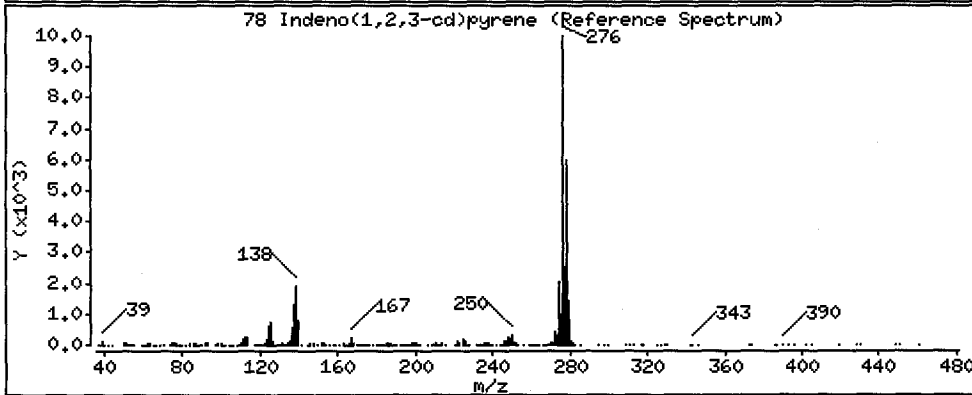
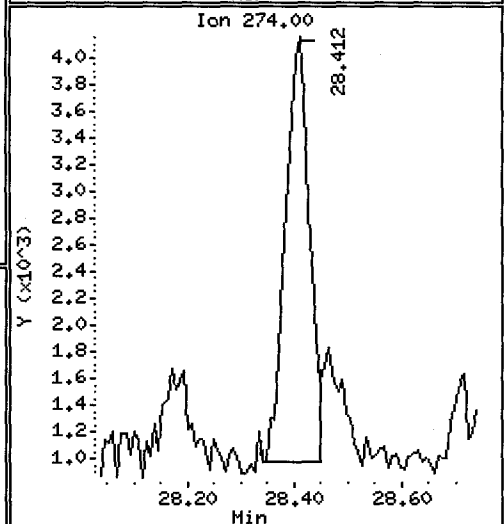
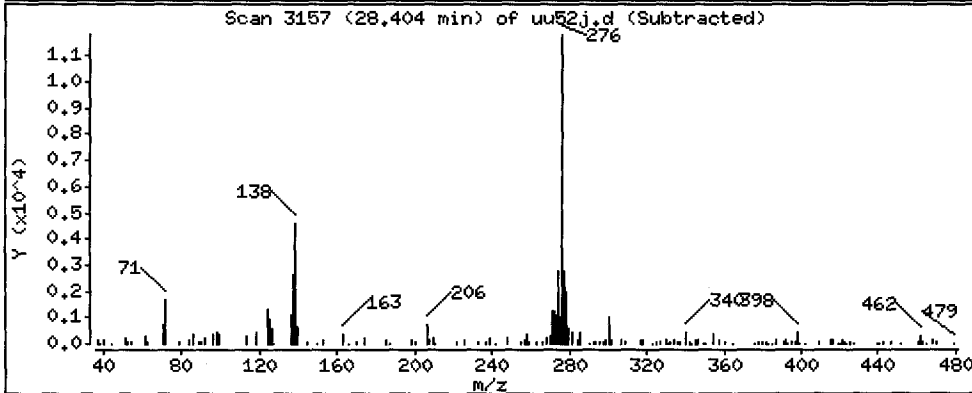
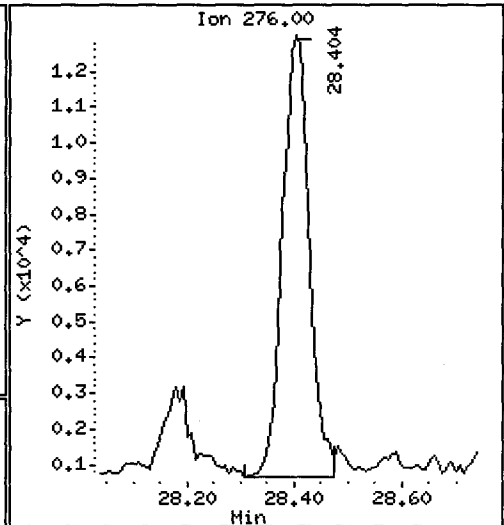
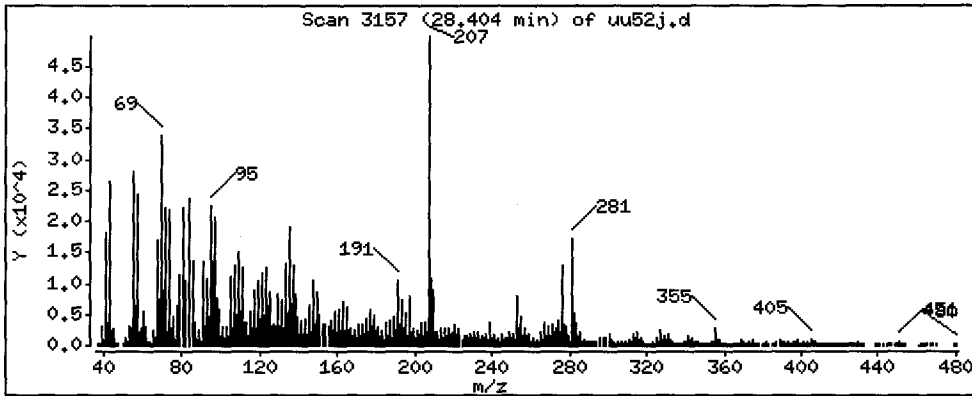
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 62.14 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

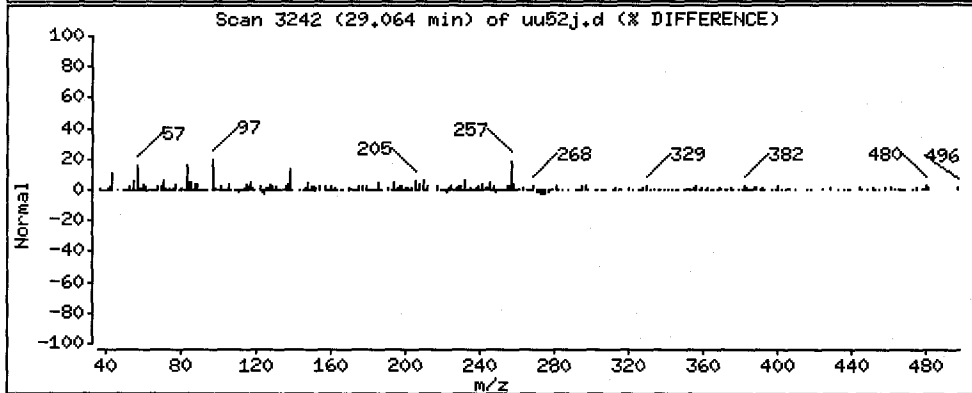
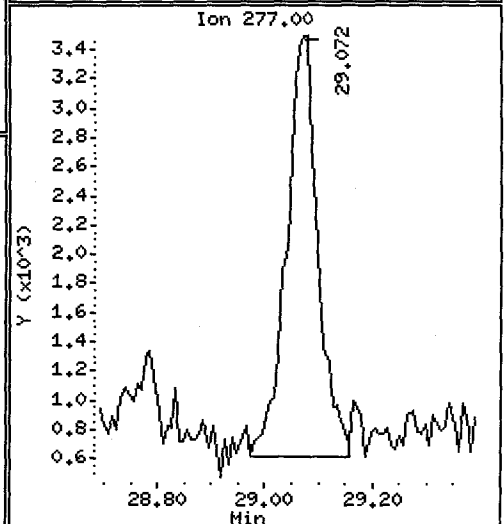
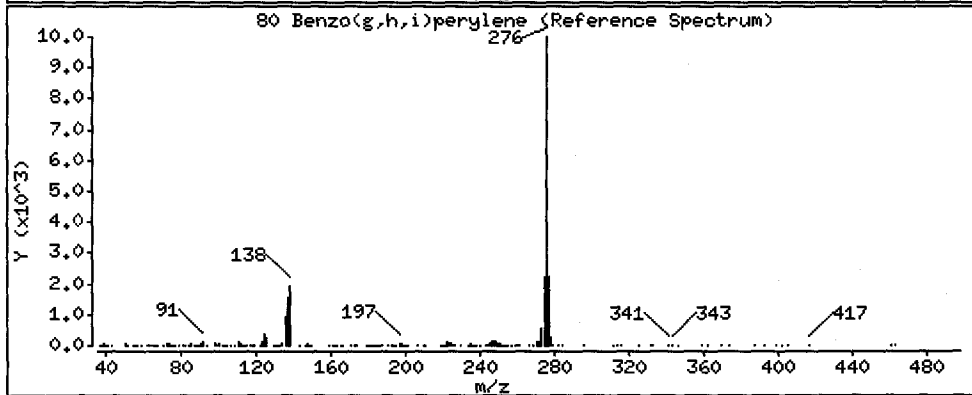
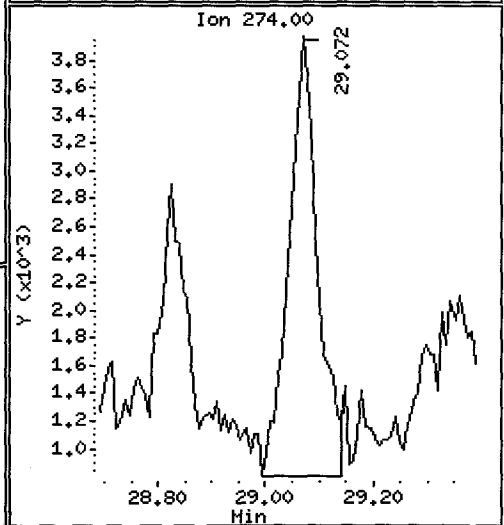
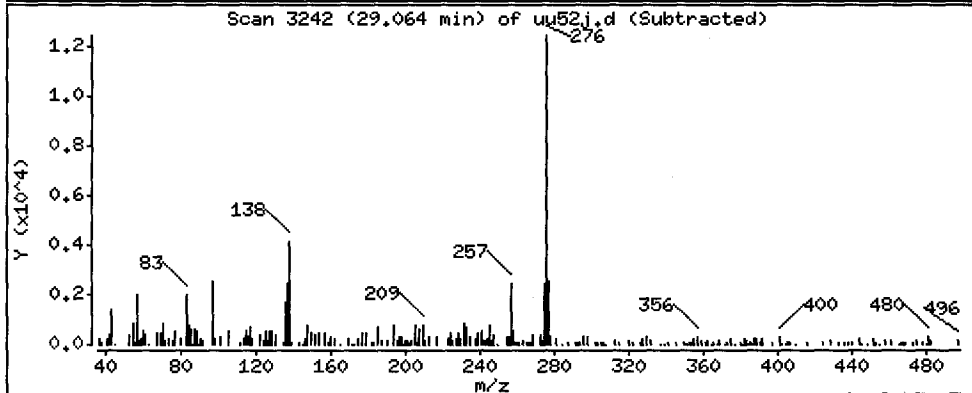
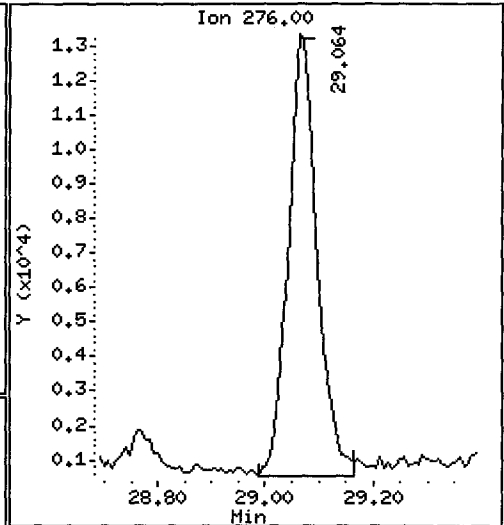
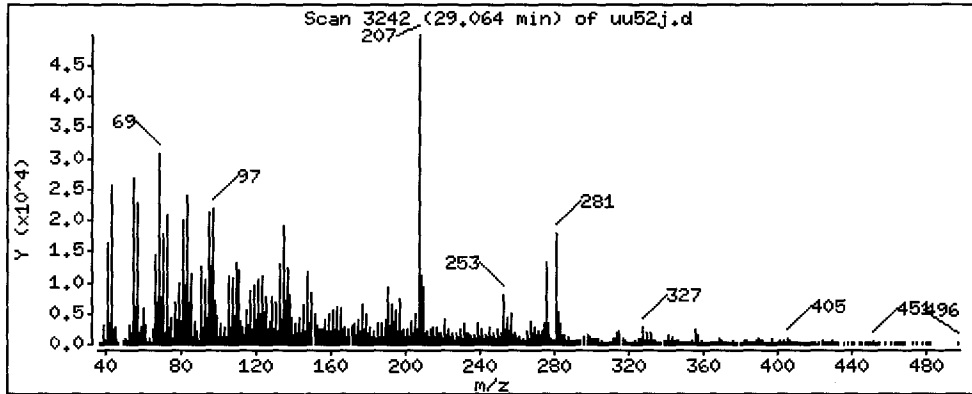
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 82.49 ug/kg



Date : 29-MAY-2012 13:33

Client ID: MS009-SS-120515

Instrument: nt10.i

Sample Info: UU52J,3

Volume Injected (uL): 1.0

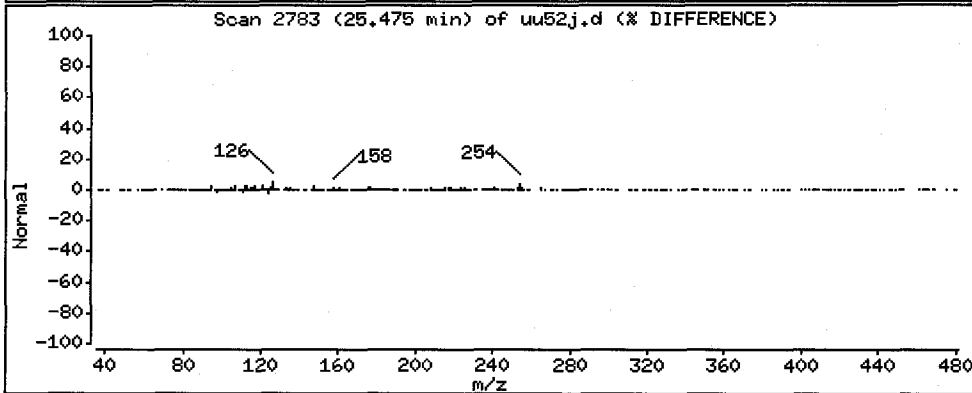
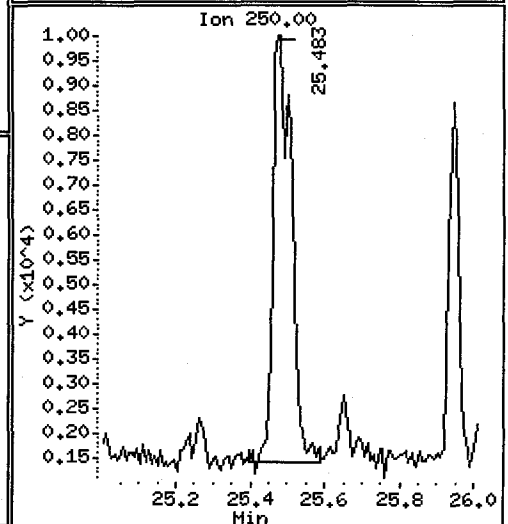
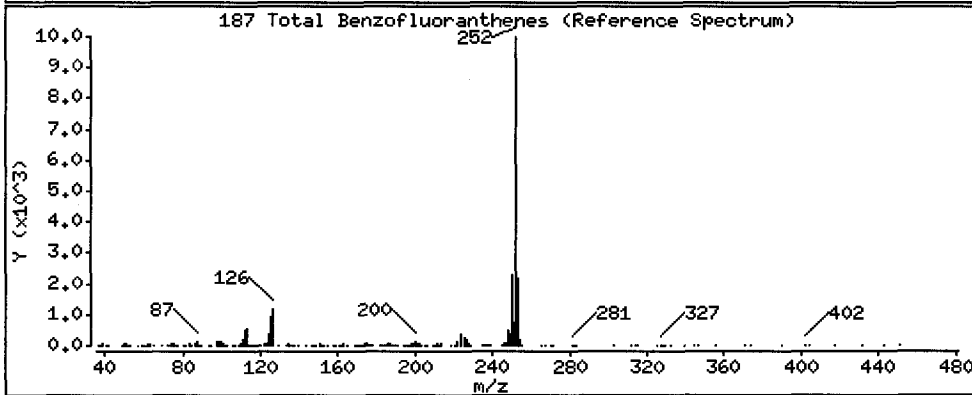
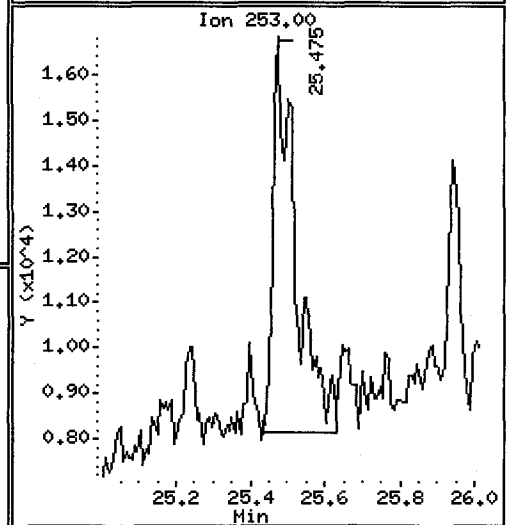
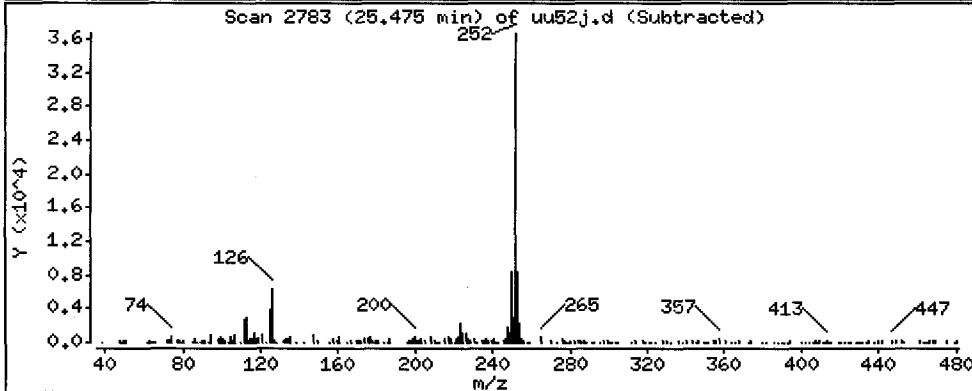
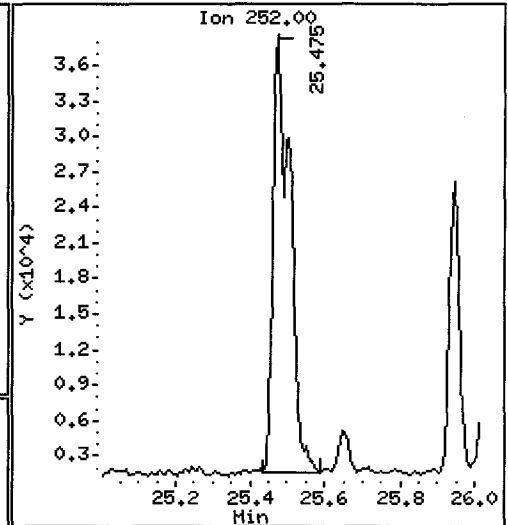
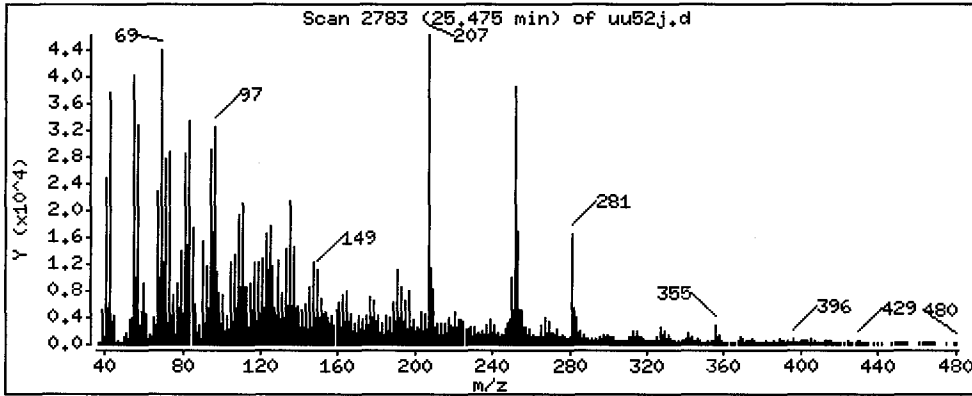
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 186.2 ug/kg



CO-ELUTION SUMMARY FOR FILE - uu52j.d

Lab ID: UU52J, Method: ABN.m, Instrument: nt10.i, Date: 29-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

YZ 6/4/12

Data file : /chem1/nt10.i/20120530.b/uu52g6.d
 Lab Smp Id: UU52G Client Smp ID: MS006-SS-120515
 Inj Date : 30-MAY-2012 13:04
 Operator : VTS/YZ Inst ID: nt10.i
 Smp Info : UU52G,6
 Misc Info : 12-8899
 Comment : 1ul Injection
 Method : /chem1/nt10.i/20120530.b/ABN.m
 Meth Date : 30-May-2012 14:19 yev Quant Type: ISTD
 Cal Date : 26-MAY-2012 14:42 Cal File: ic0526g.d
 Als bottle: 4
 Dil Factor: 6.00000
 Integrator: HP RTE Compound Sublist: PSDDAICAL.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100 - M) / 100) * CpndVariable

| Name | Value | Description |
|------|------------|--------------------------------|
| DF | 6.00000 | Dilution Factor |
| Vt | 1000.00000 | Volume of final extract (uL) |
| Ws | 109.00000 | Weight of sample extracted (g) |
| M | 90.80000 | % Moisture |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| \$ 1 2-Fluorophenol | 112 | 6.575 | 6.560 | (0.741) | 53936 | 0.82913 | 496.1 |
| \$ 2 Phenol-d5 | 99 | 8.268 | 8.260 | (0.932) | 70101 | 0.86510 | 517.6 |
| 3 Phenol | 94 | 8.299 | 8.283 | (0.935) | 71744 | 0.83063 | 497.0 |
| \$ 5 2-Chlorophenol-d4 | 132 | 8.499 | 8.499 | (0.958) | 62666 | 0.88270 | 528.1 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 8.871 | 8.863 | (1.000) | 186026 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 9.244 | 9.243 | (1.042) | 24966 | 0.53607 | 320.7 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | 9.197 | 9.181 | (1.037) | 7168 | 0.19753 | 118.2 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|-------------------------------|-----------|--|----------------|--------|---------|------------------------|-------------------|---------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) |
| 17 Hexachloroethane | 117 | | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | | 9.756 | 9.748 | (1.100) | 33825 | 0.47626 | 285.0 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.035 | 10.035 | (0.872) | 37184 | 0.56576 | 338.5 |
| 19 Nitrobenzene | 77 | | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | 11.095 | 11.080 | (0.964) | 372312 | 8.70776 | 5210 |
| 25 2,4-Dichlorophenol | 162 | | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | | 11.512 | 11.512 | (1.000) | 733531 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.558 | 11.558 | (1.004) | 1944963 | 10.5177 | 6293 |
| 29 4-Chloroaniline | 127 | | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 142 | | 13.059 | 13.059 | (1.134) | 126431 | 0.98347 | 588.4 |
| 33 Hexachlorocyclopentadiene | 237 | | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.910 | 13.910 | (0.904) | 89064 | 0.60177 | 360.1 |
| 37 2-Chloronaphthalene | 162 | | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | 15.048 | 15.048 | (0.978) | 68471 | 0.35708 | 213.7 (M) |
| 41 2,6-Dinitrotoluene | 165 | | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | | 15.388 | 15.388 | (1.000) | 426946 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | 15.458 | 15.458 | (1.005) | 17224 | 0.14892 | 89.10 |
| 45 2,4-Dinitrophenol | 184 | | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | 15.813 | 15.813 | (1.028) | 151838 | 0.89610 | 536.2 |
| 47 4-Nitrophenol | 109 | | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | | 16.579 | 16.579 | (1.077) | 28972 | 0.22315 | 133.5 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 17.165 | 17.165 | (1.115) | 17230 | 0.97774 | 585.0 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | | 18.657 | 18.657 | (1.000) | 591988 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.703 | 18.703 | (1.002) | 552278 | 3.61792 | 2165 |
| 61 Anthracene | 178 | | 18.796 | 18.803 | (1.007) | 52014 | 0.32618 | 195.2 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------------|-------------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/kg) | |
| 62 Carbazole | 167 | 19.167 | 19.144 | (1.027) | 26899 | 0.18231 | 109.1 (M) | |
| 63 Di-n-butylphthalate | 149 | Compound Not Detected. | | | | | | |
| 64 Fluoranthene | 202 | 21.125 | 21.125 | (1.132) | 517352 | 2.98495 | 1786 | |
| 65 Pyrene | 202 | 21.543 | 21.542 | (0.908) | 483349 | 2.23918 | 1340 | |
| \$ 66 Terphenyl-d14 | 244 | 21.860 | 21.860 | (0.921) | 82496 | 0.61007 | 365.0 | |
| 67 Butylbenzylphthalate | 149 | Compound Not Detected. | | | | | | |
| 68 Benzo (a) anthracene | 228 | 23.695 | 23.695 | (0.999) | 69110 | 0.34631 | 207.2 | |
| * 69 Chrysene-d12 | 240 | 23.726 | 23.726 | (1.000) | 709441 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | 23.764 | 23.772 | (1.002) | 117300 | 0.66818 | 399.8 | |
| 72 bis (2-Ethylhexyl) phthalate | 149 | 23.834 | 23.834 | (0.961) | 32912 | 0.21989 | 131.6 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.810 | 24.809 | (1.000) | 1089932 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | Compound Not Detected. | | | | | | |
| 74 Benzo (b) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 75 Benzo (k) fluoranthene | 252 | Compound Not Detected. | | | | | | |
| 76 Benzo (a) pyrene | 252 | 26.025 | 26.033 | (0.996) | 68231 | 0.39856 | 238.5 | |
| * 77 Perylene-d12 | 264 | 26.134 | 26.133 | (1.000) | 662093 | 4.00000 | | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 28.381 | 28.388 | (1.086) | 85685 | 0.43269 | 258.9 | |
| 79 Dibenzo (a,h) anthracene | 278 | 28.396 | 28.404 | (1.087) | 16389 | 0.10506 | 62.86 (M) | |
| 80 Benzo (g,h,i) perylene | 276 | 29.056 | 29.049 | (1.112) | 108135 | 0.63679 | 381.0 | |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 13.291 | 13.291 | (1.155) | 73274 | 0.55889 | 334.4 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | 25.468 | 25.506 | (0.975) | 197943 | 1.07746 | 644.7 | |
| 99 Perylene | 252 | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | 22.146 | 22.146 | (0.933) | 44776 | 0.44545 | 266.5 | |

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: uu52g6.d
 Lab Smp Id: UU52G
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS/YZ
 Method File: /chem1/nt10.i/20120530.b/ABN.m
 Misc Info: 12-8899

Calibration Date: 30-MAY-2012
 Calibration Time: 12:27
 Client Smp ID: MS006-SS-120515
 Level: LOW
 Sample Type: Sediment

Test Mode:
 Use Initial Calibration Level 5.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 189516 | 94758 | 379032 | 186026 | -1.84 |
| 27 Naphthalene-d8 | 730932 | 365466 | 1461864 | 733531 | 0.36 |
| 42 Acenaphthene-d10 | 420698 | 210349 | 841396 | 426946 | 1.49 |
| 59 Phenanthrene-d10 | 638950 | 319475 | 1277900 | 591988 | -7.35 |
| 69 Chrysene-d12 | 645065 | 322532 | 1290130 | 709441 | 9.98 |
| 134 Di-n-octylphthala | 1016118 | 508059 | 2032236 | 1089932 | 7.26 |
| 77 Perylene-d12 | 650033 | 325016 | 1300066 | 662093 | 1.86 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.86 | 8.36 | 9.36 | 8.87 | 0.09 |
| 27 Naphthalene-d8 | 11.51 | 11.01 | 12.01 | 11.51 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.66 | 18.16 | 19.16 | 18.66 | 0.00 |
| 69 Chrysene-d12 | 23.73 | 23.23 | 24.23 | 23.73 | 0.00 |
| 134 Di-n-octylphthala | 24.81 | 24.31 | 25.31 | 24.81 | 0.00 |
| 77 Perylene-d12 | 26.13 | 25.63 | 26.63 | 26.13 | 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: Anchor QEA, LLC.

Client SDG: UU52

Sample Matrix: SOLID

Fraction: SV

Lab Smp Id: UU52G

Client Smp ID: MS006-SS-120515

Level: LOW

Operator: VTS/YZ

Data Type: MS DATA

SampleType: SAMPLE

SpikeList File: SHORTPSDDA.spk

Quant Type: ISTD

Sublist File: PSDDAICAL.sub

Method File: /chem1/nt10.i/20120530.b/ABN.m

Misc Info: 12-8899

| SURROGATE COMPOUND | CONC ADDED ug/kg | CONC RECOVERED ug/kg | % RECOVERED | LIMITS |
|--------------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 747.9 | 496.1 | 66.33 | 30-160 |
| \$ 2 Phenol-d5 | 747.9 | 517.6 | 69.21 | 30-160 |
| \$ 5 2-Chlorophenol-d4 | 747.9 | 528.1 | 70.62 | 30-160 |
| \$ 10 1,2-Dichlorobenzen | 498.6 | 320.7 | 64.33 | 30-160 |
| \$ 18 Nitrobenzene-d5 | 498.6 | 338.5 | 67.89 | 30-160 |
| \$ 36 2-Fluorobiphenyl | 498.6 | 360.1 | 72.21 | 30-160 |
| \$ 55 2,4,6-Tribromophen | 747.9 | 585.0 | 78.22 | 30-160 |
| \$ 66 Terphenyl-d14 | 498.6 | 365.0 | 73.21 | 30-160 |

Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

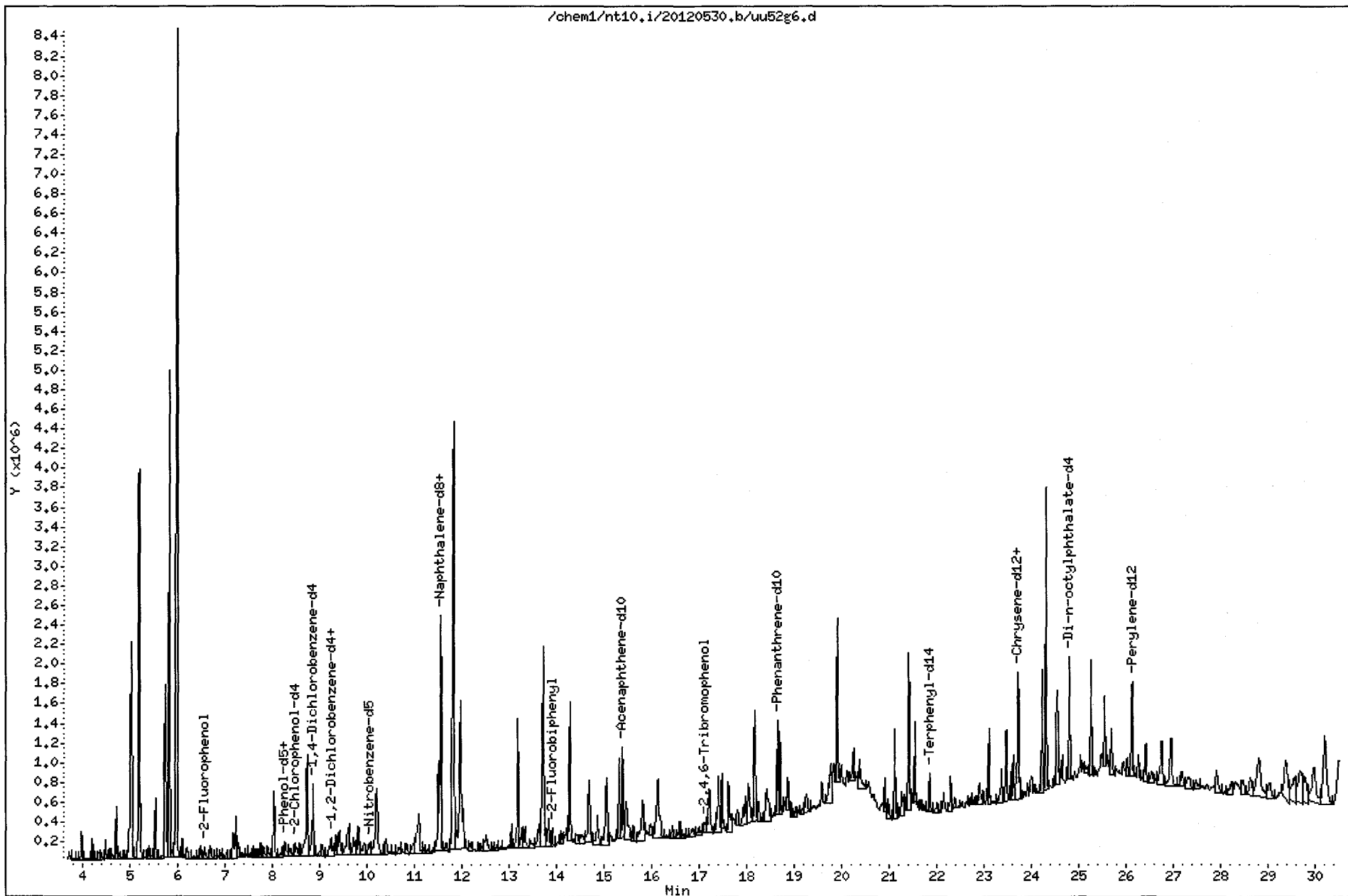
Sample Info: UU52G,6

Volume Injected (uL): 1.0

Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0,25



UU52:01051

Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

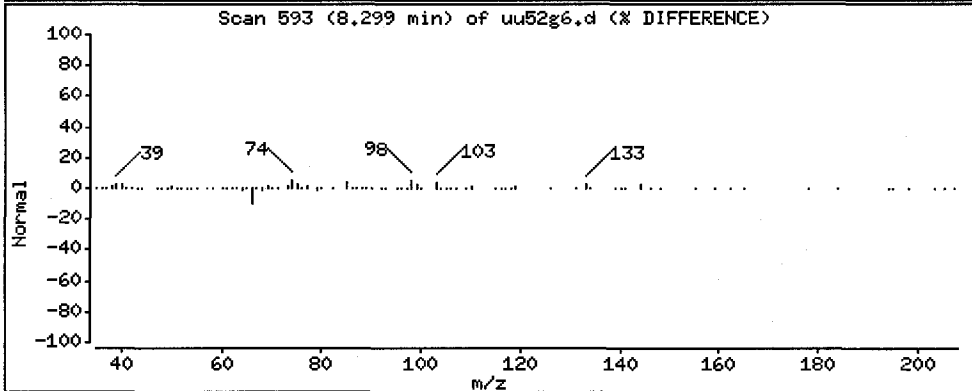
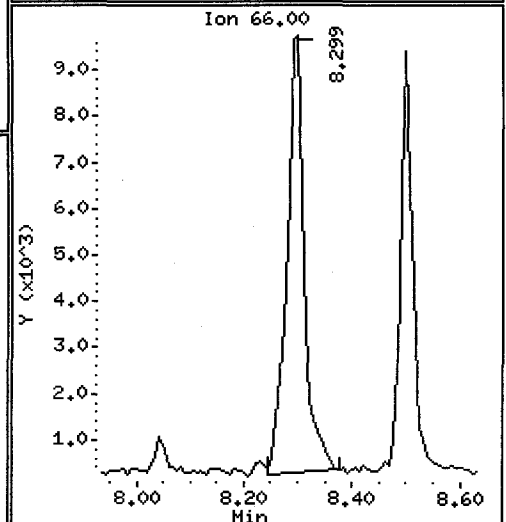
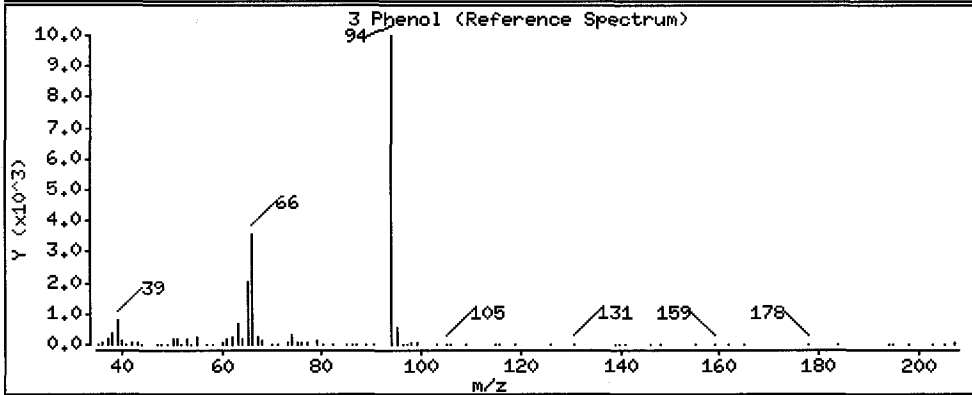
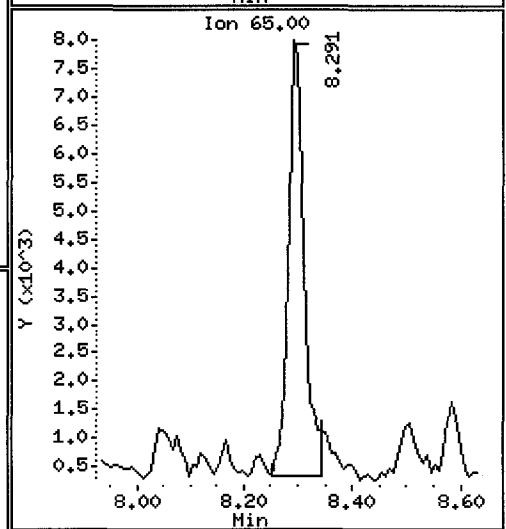
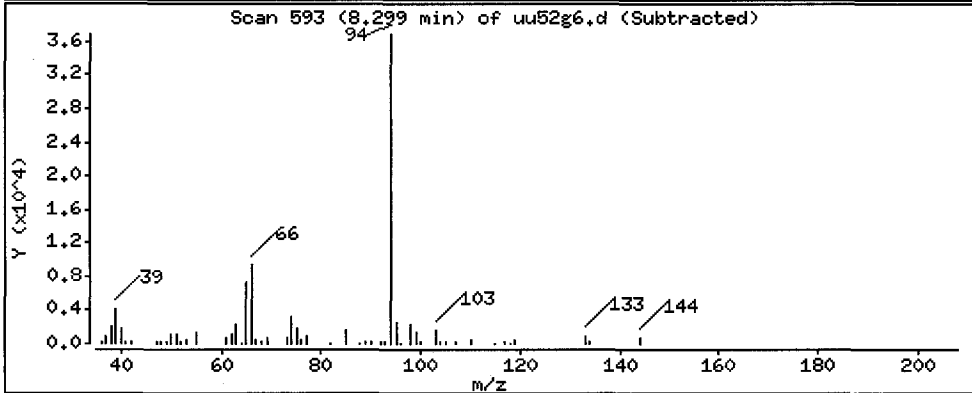
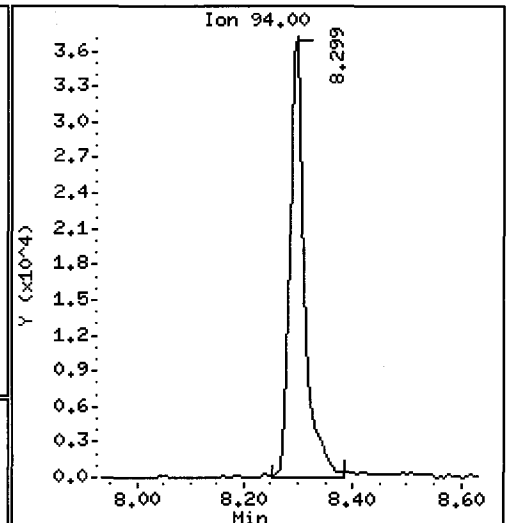
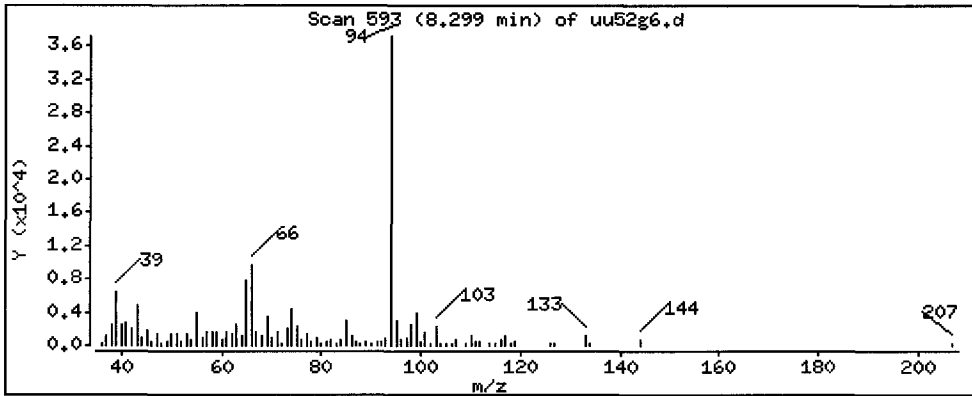
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 497.0 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

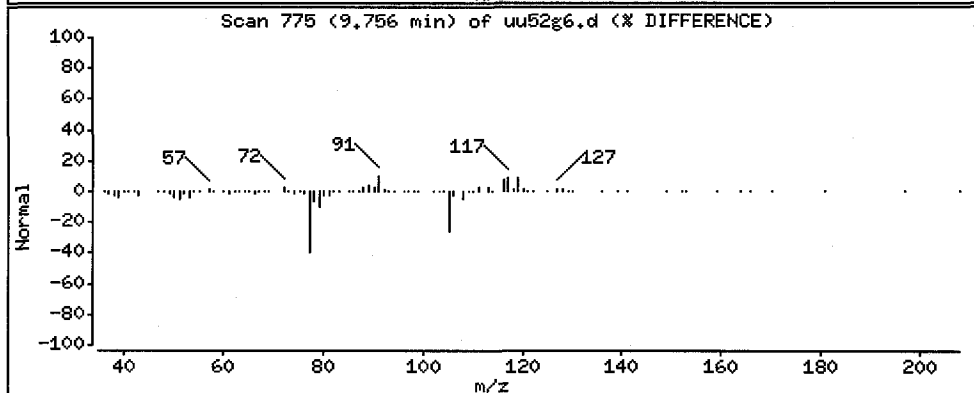
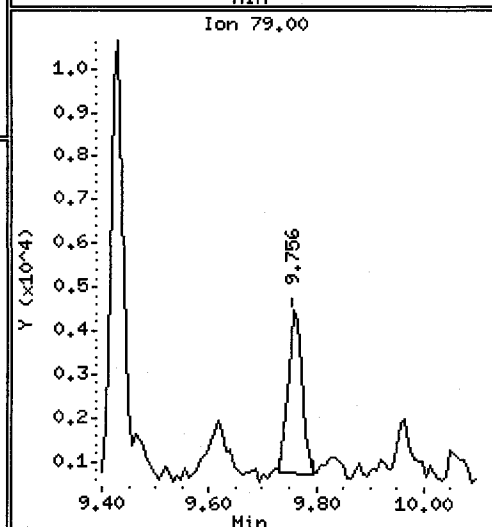
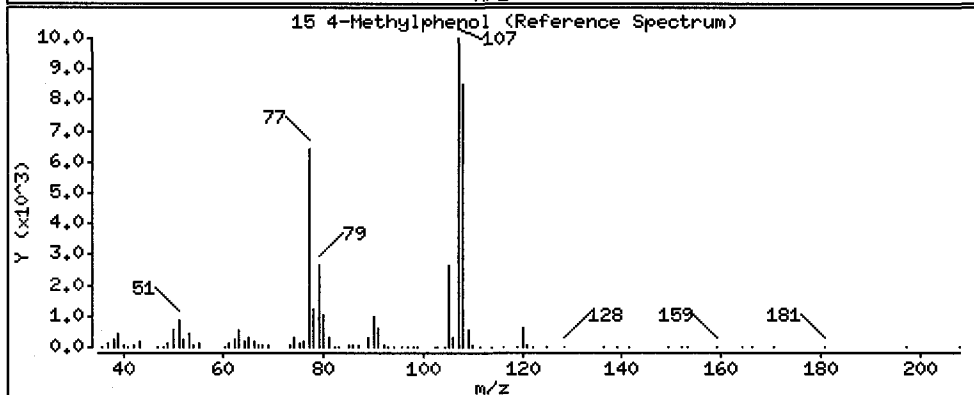
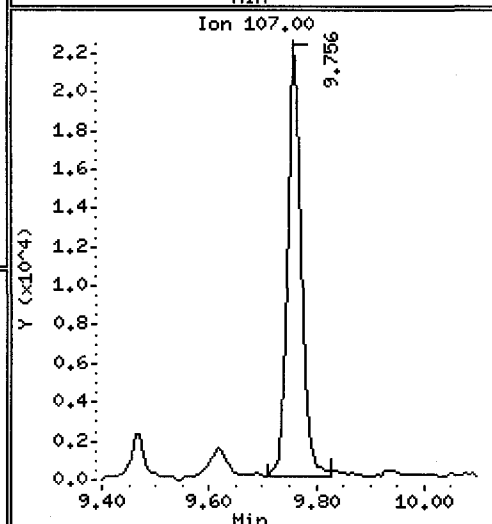
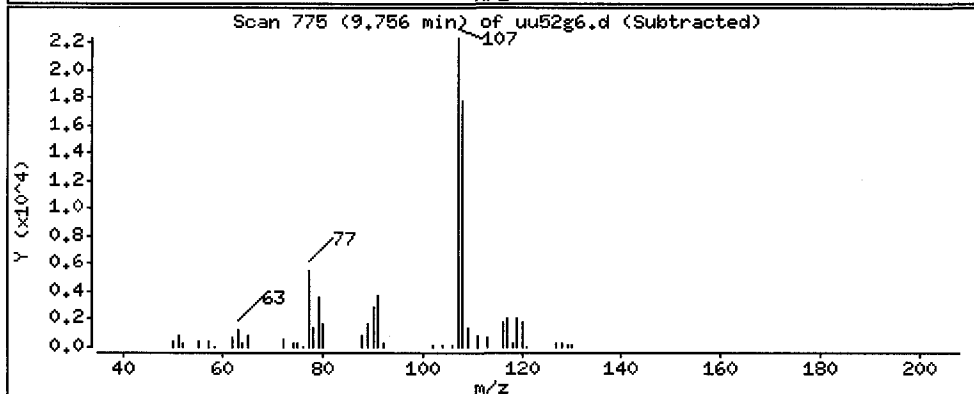
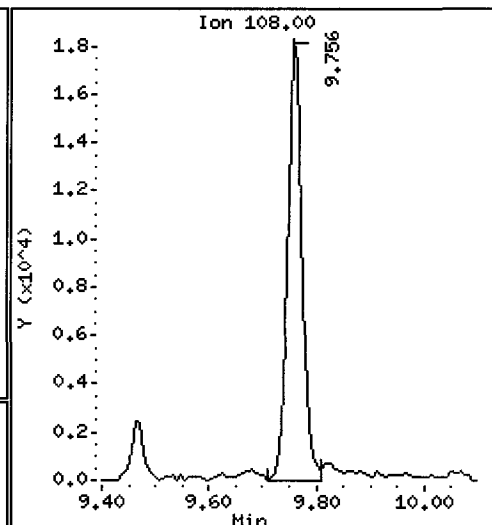
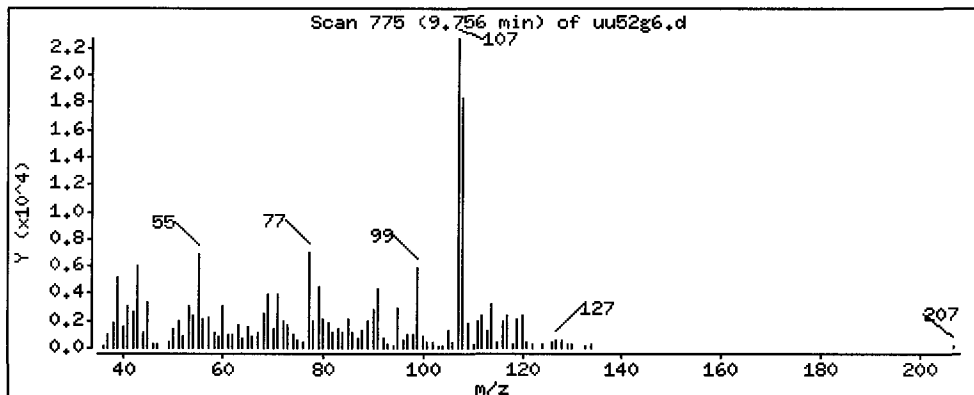
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 285.0 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

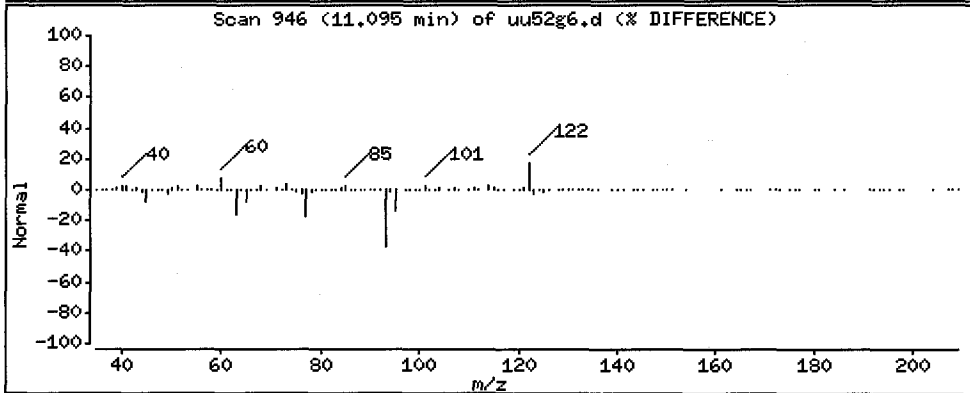
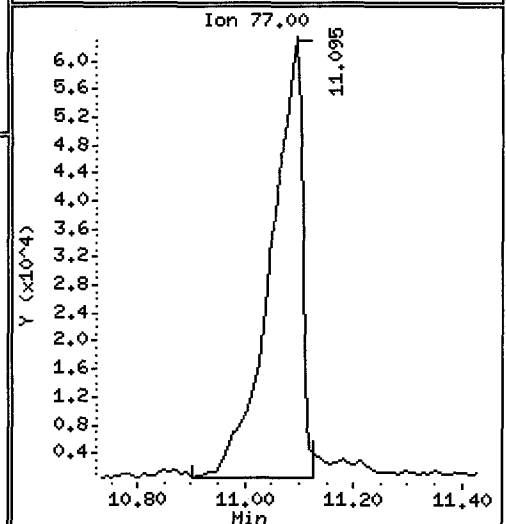
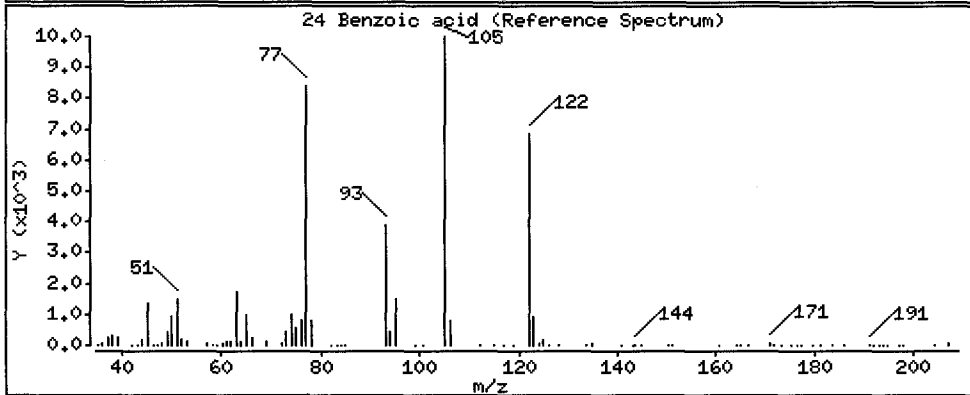
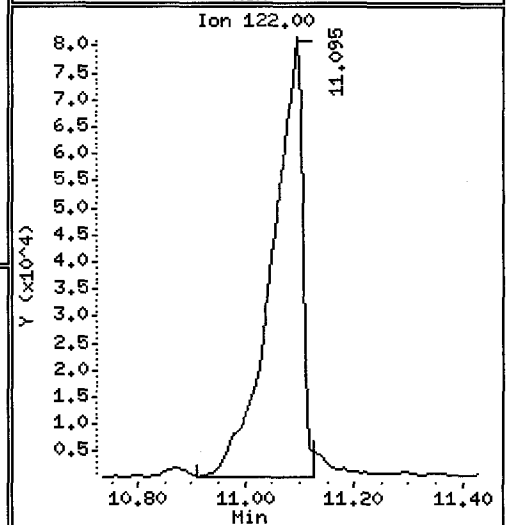
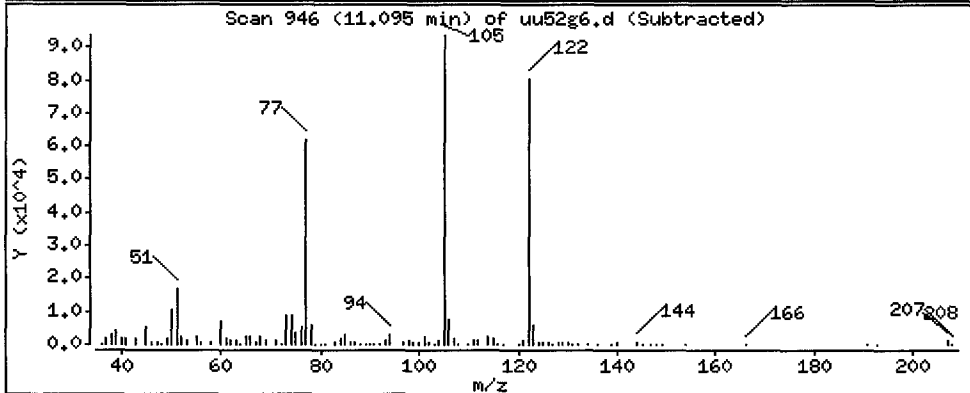
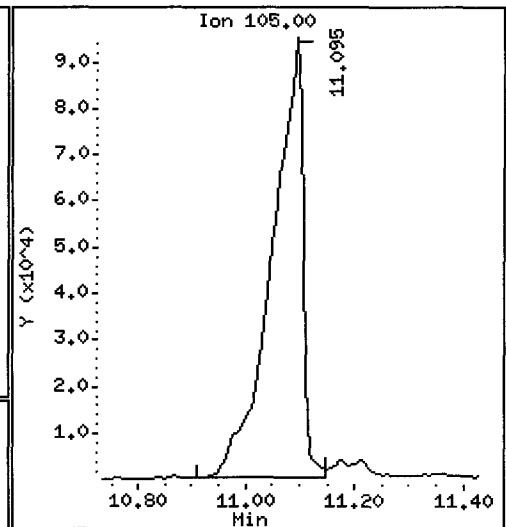
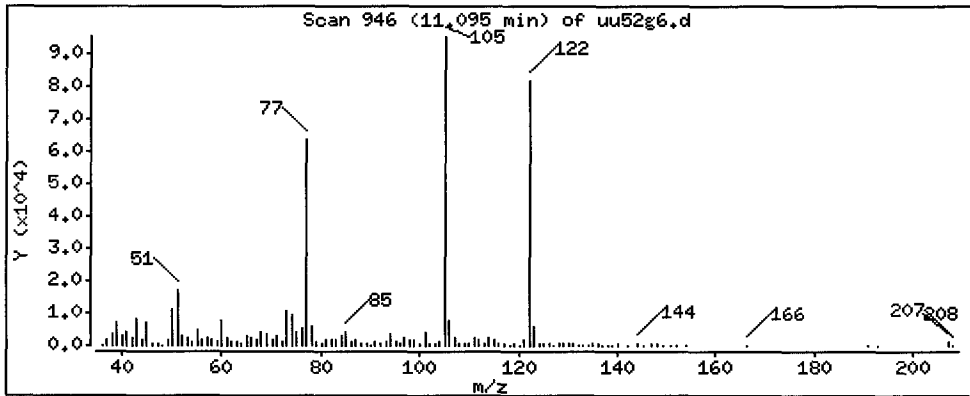
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 5210 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

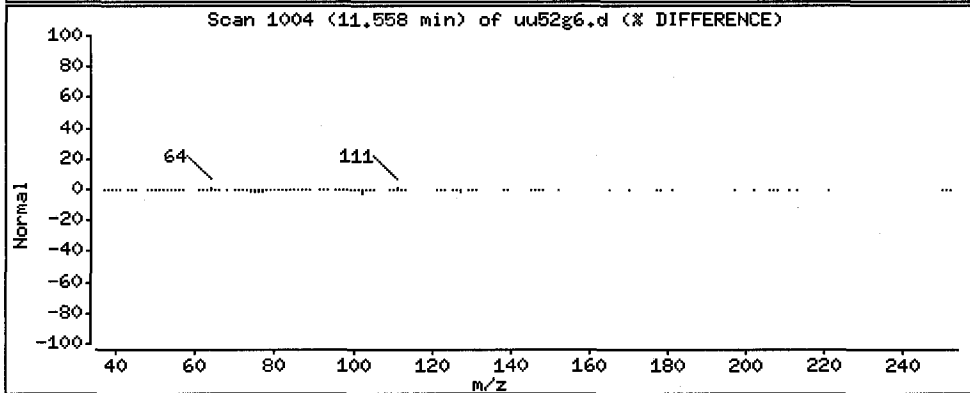
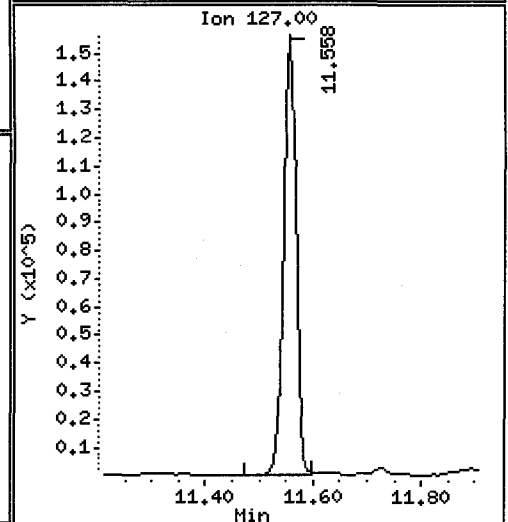
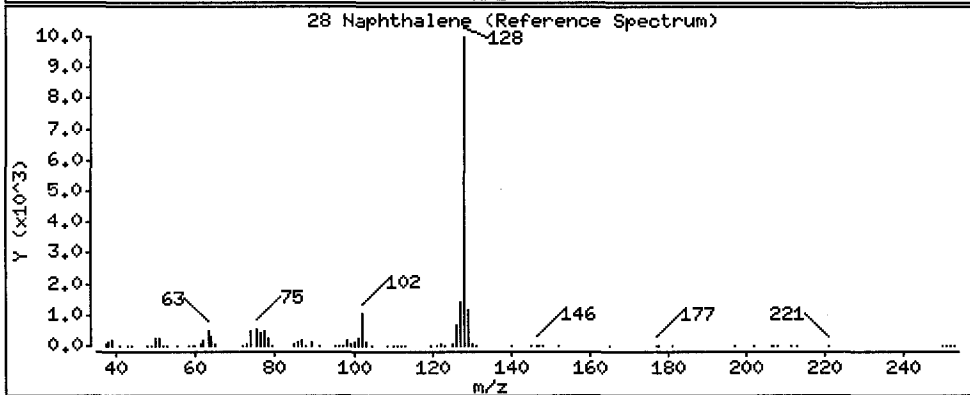
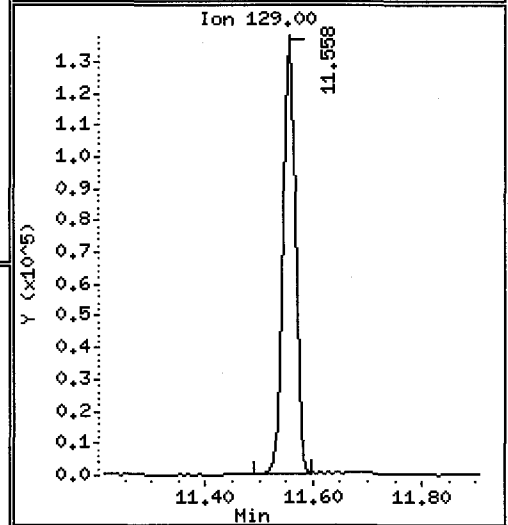
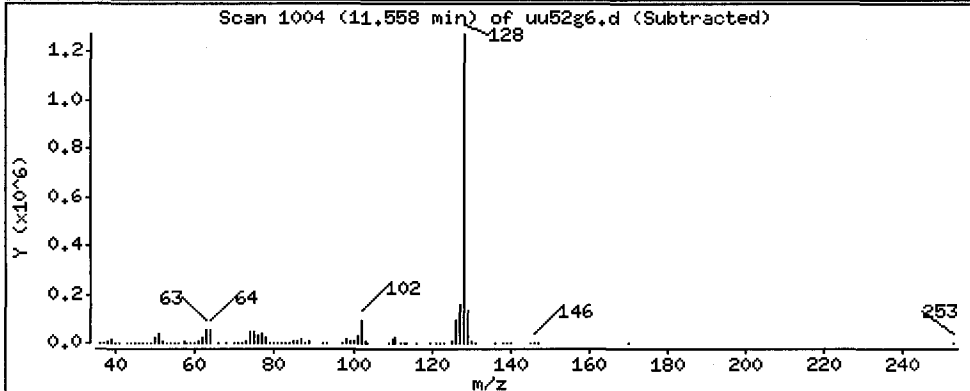
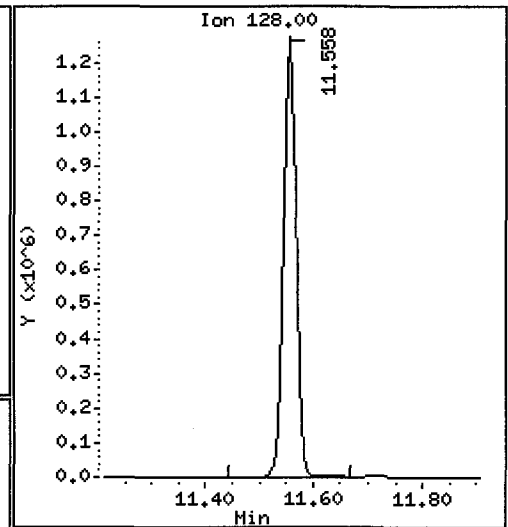
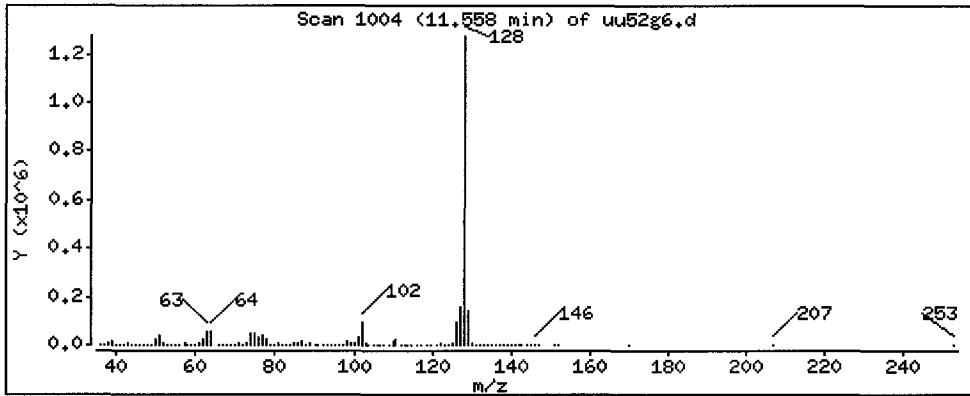
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 6293 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

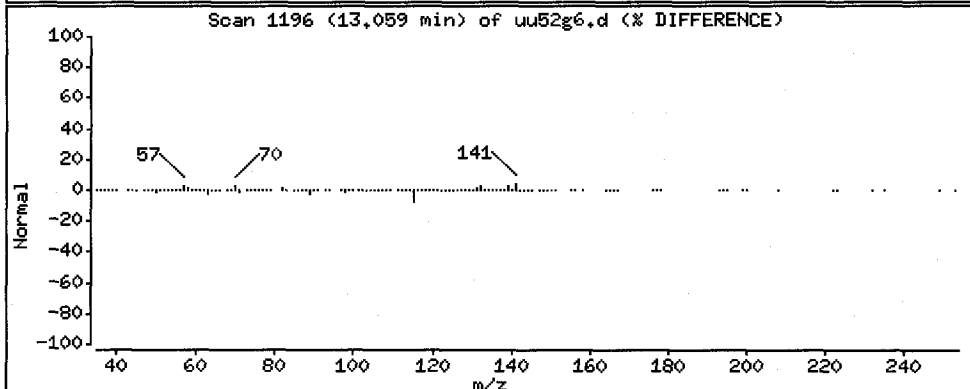
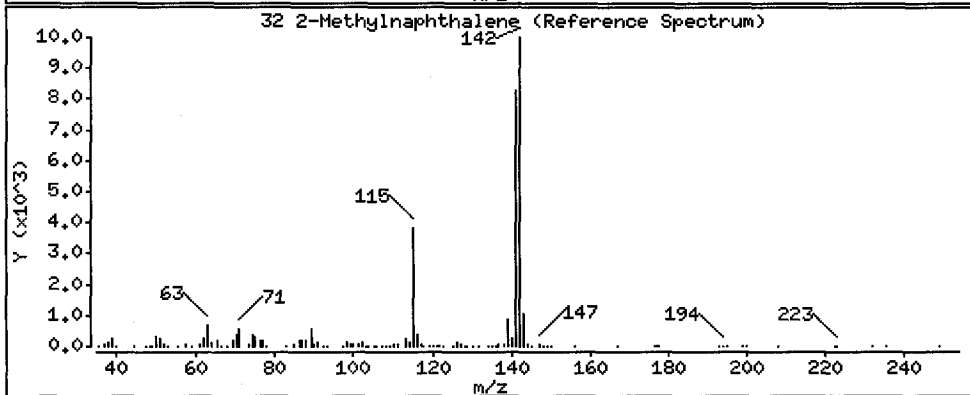
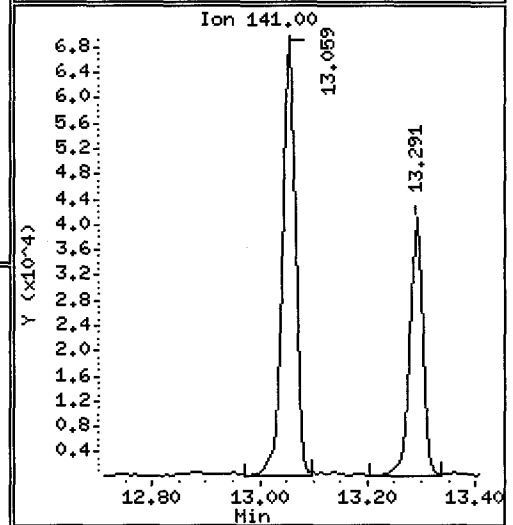
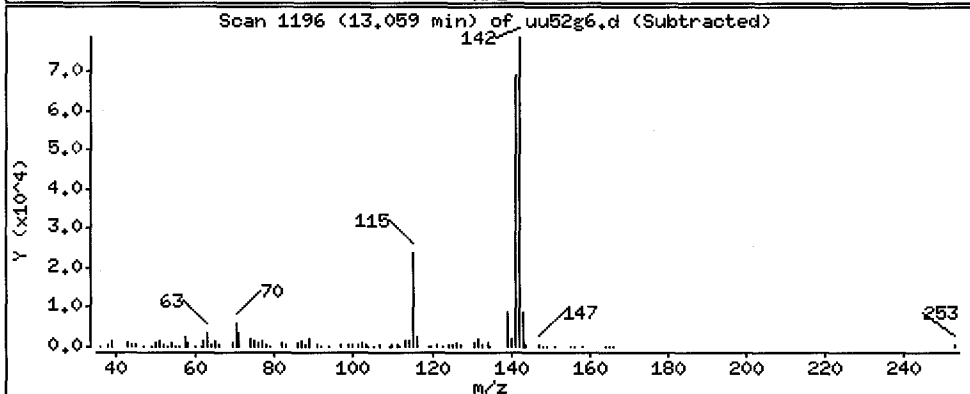
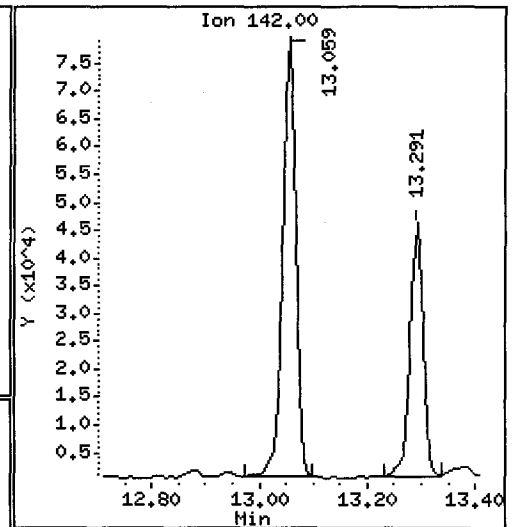
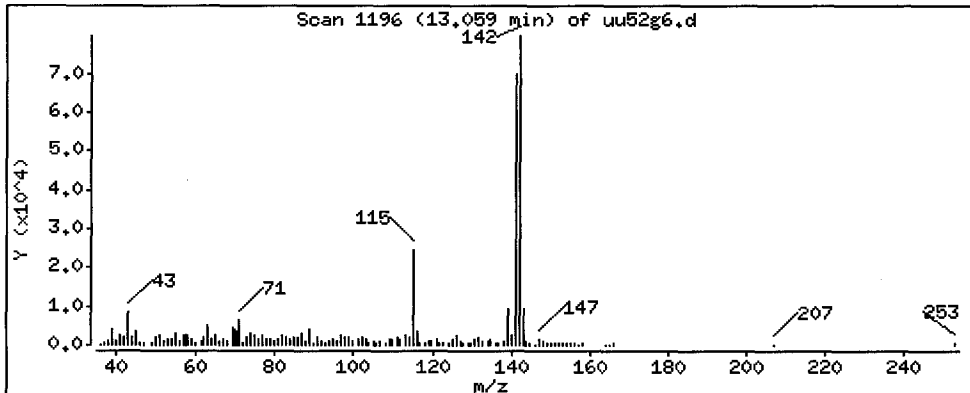
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 588.4 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G.6

Volume Injected (uL): 1.0

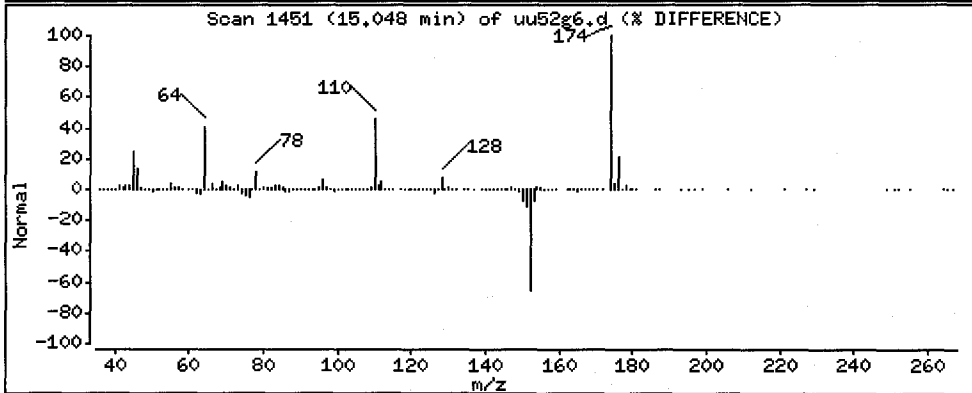
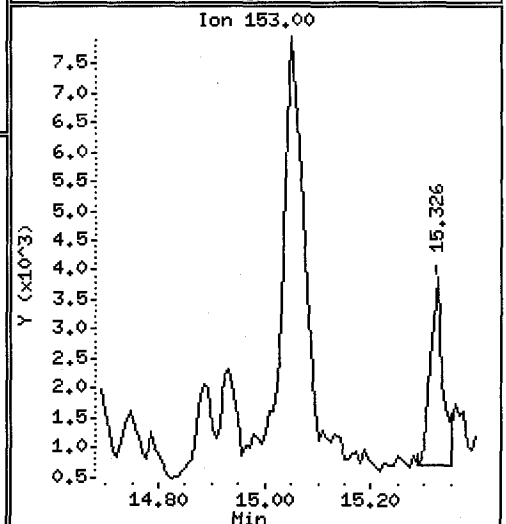
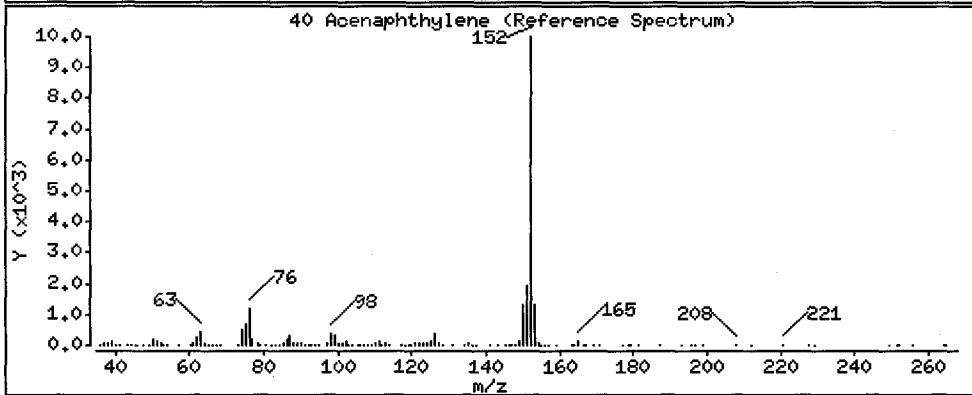
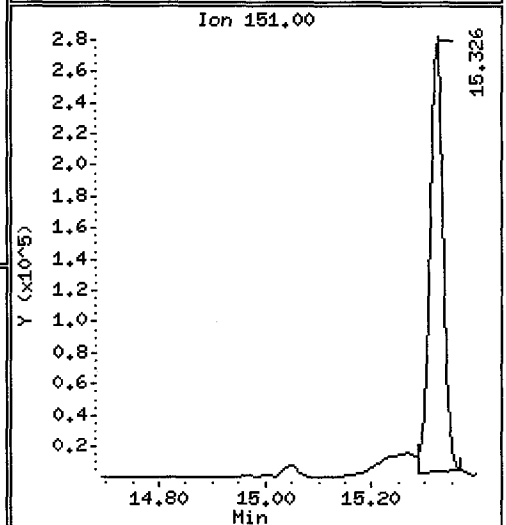
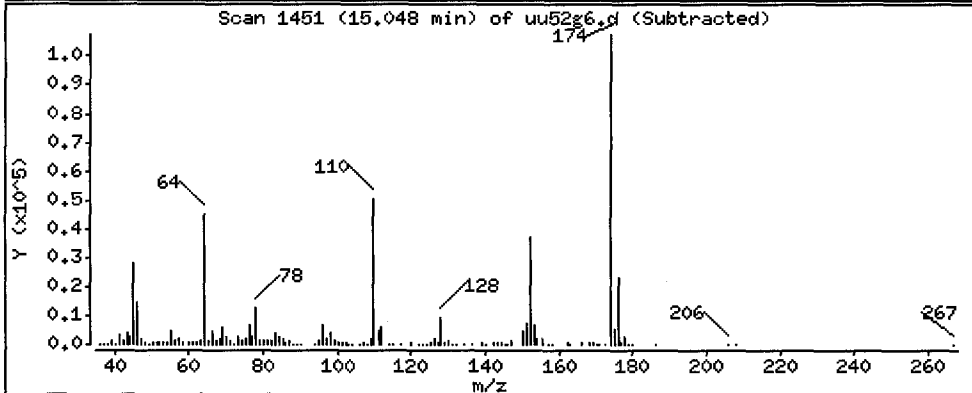
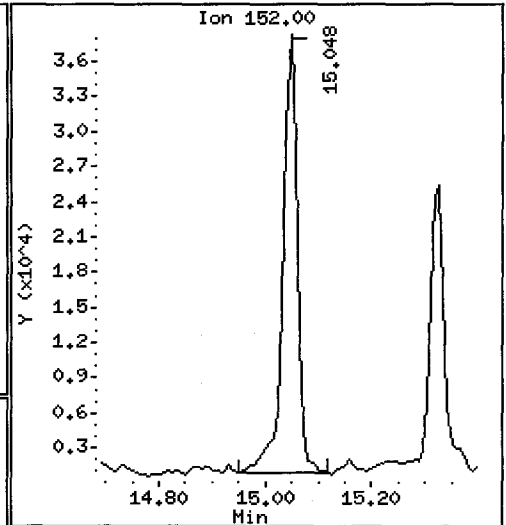
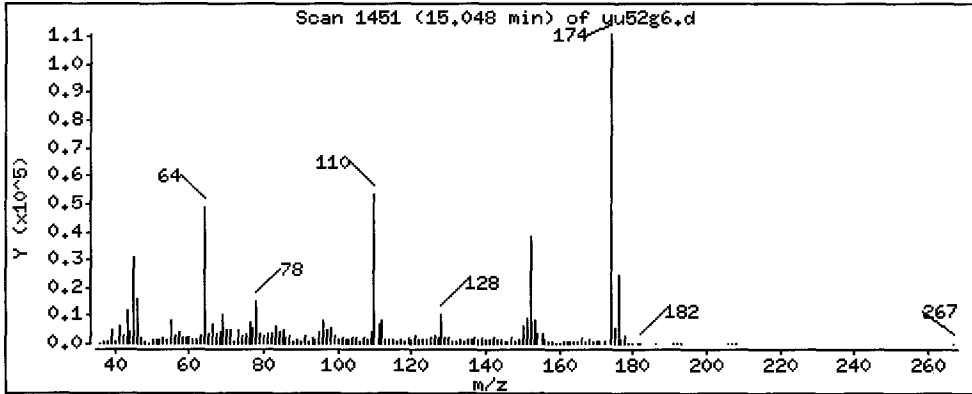
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 213.7 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

Operator: VTS/YZ

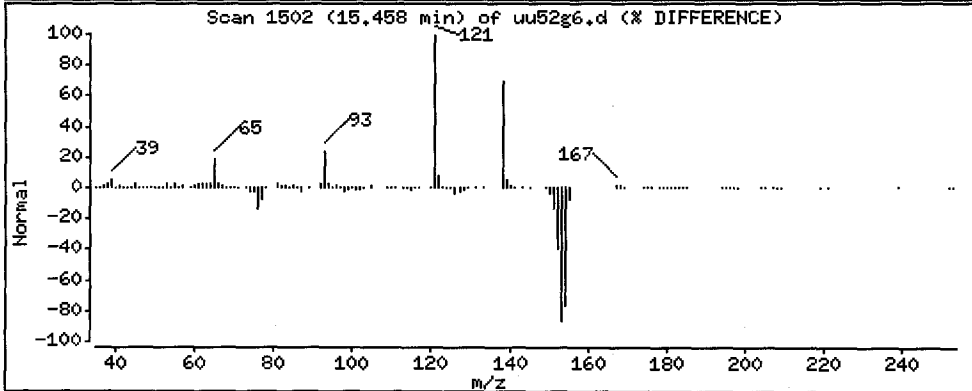
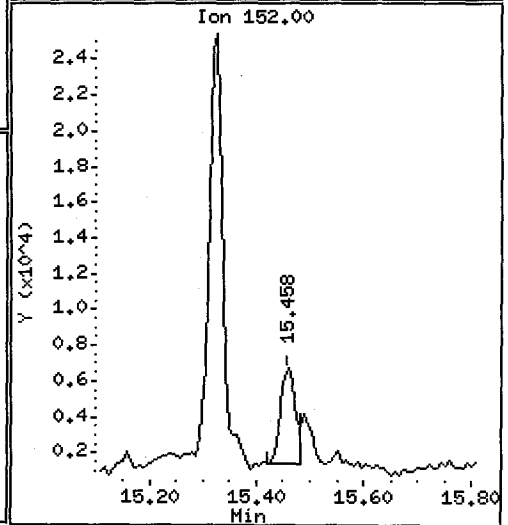
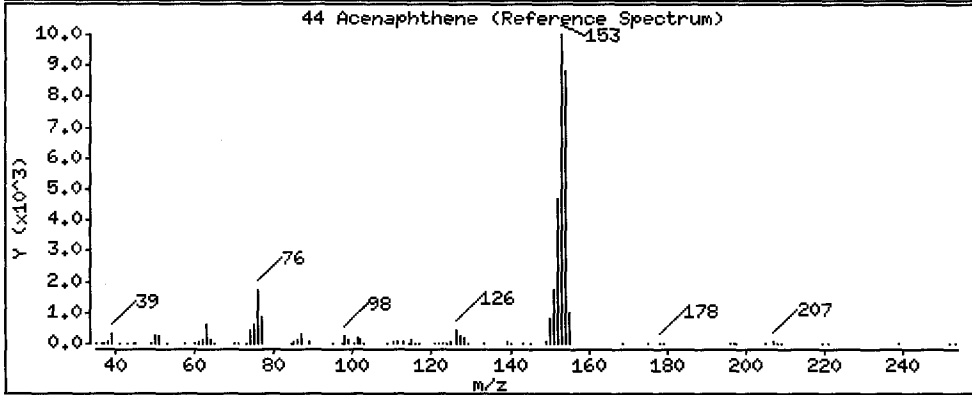
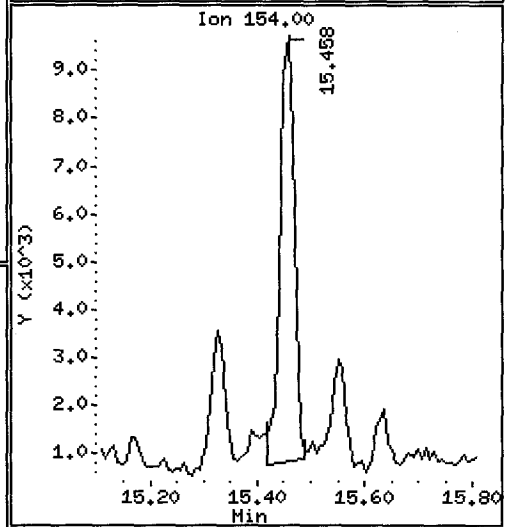
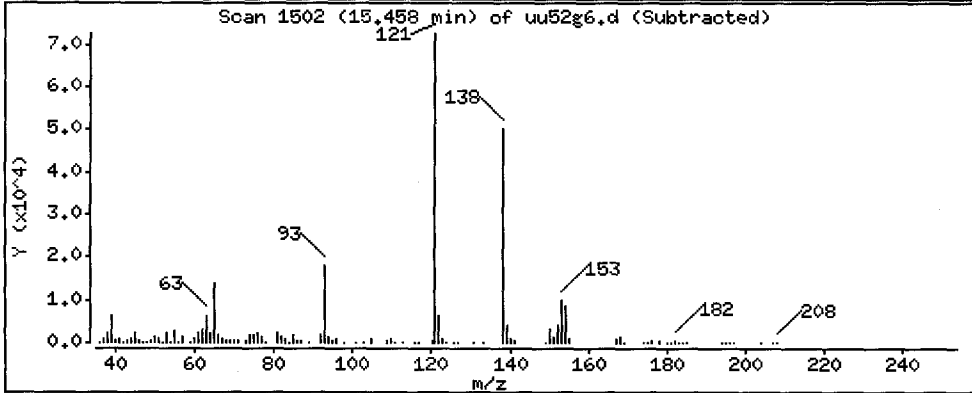
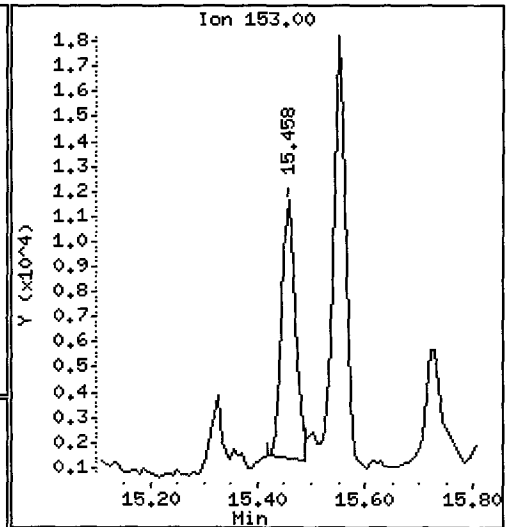
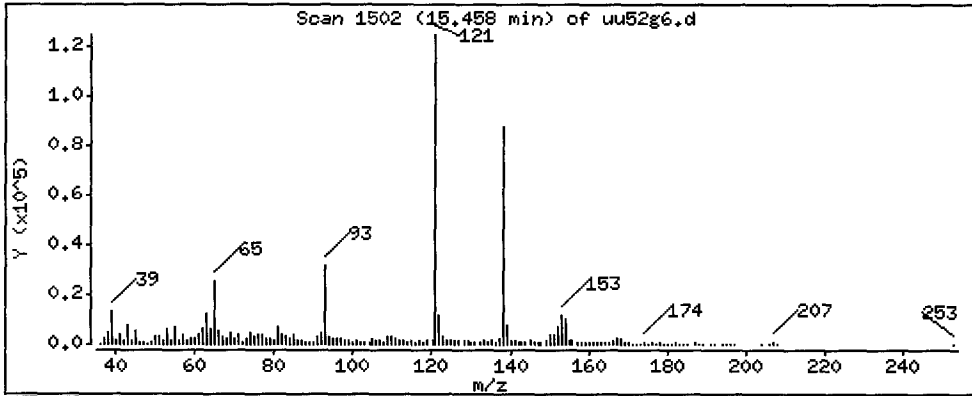
Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 89.10 ug/kg

Handwritten signature



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

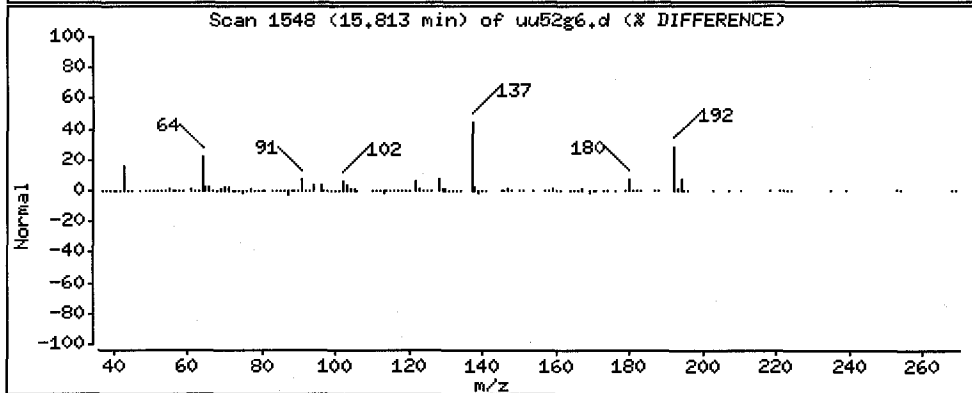
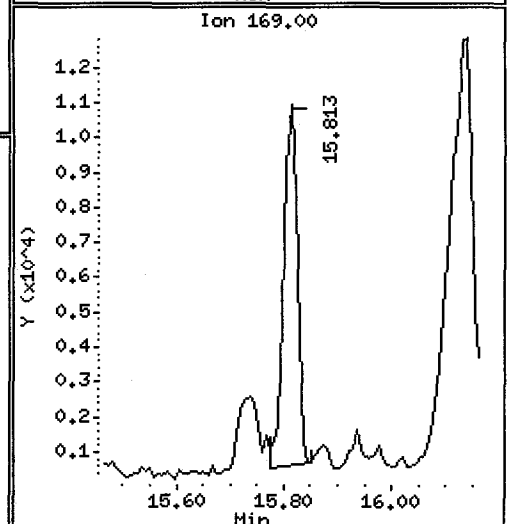
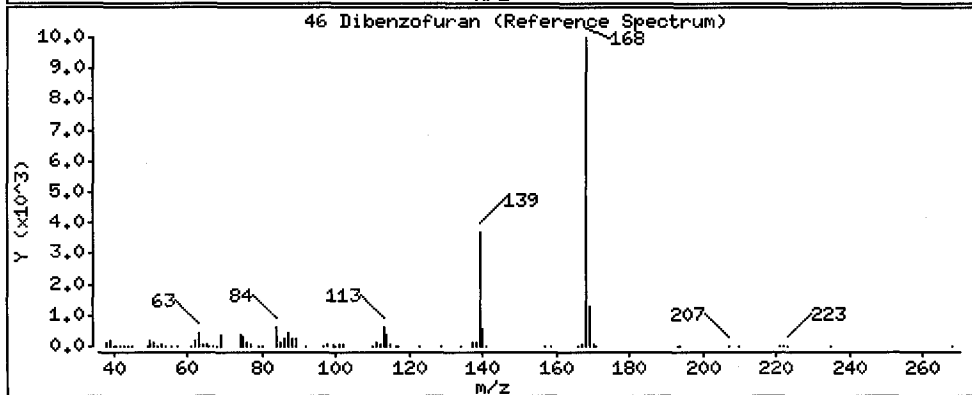
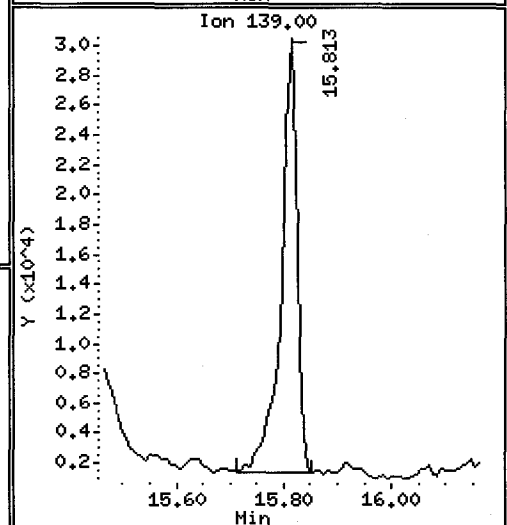
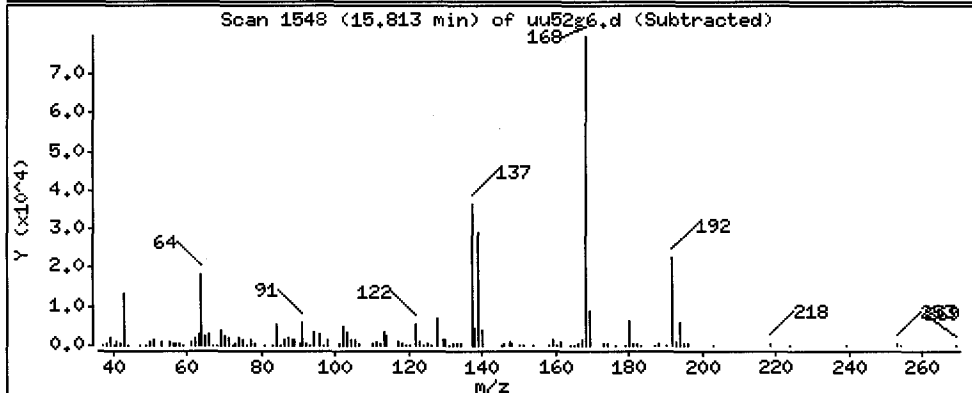
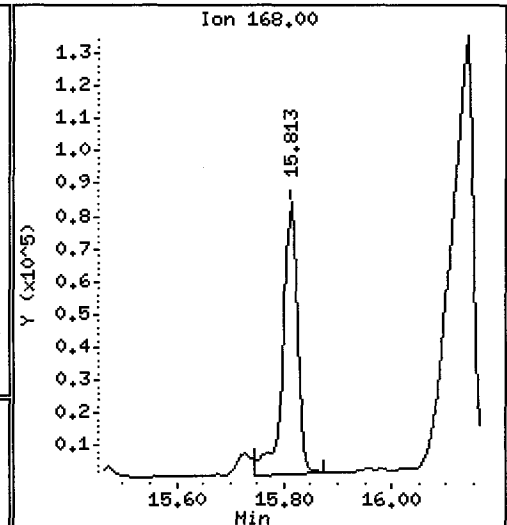
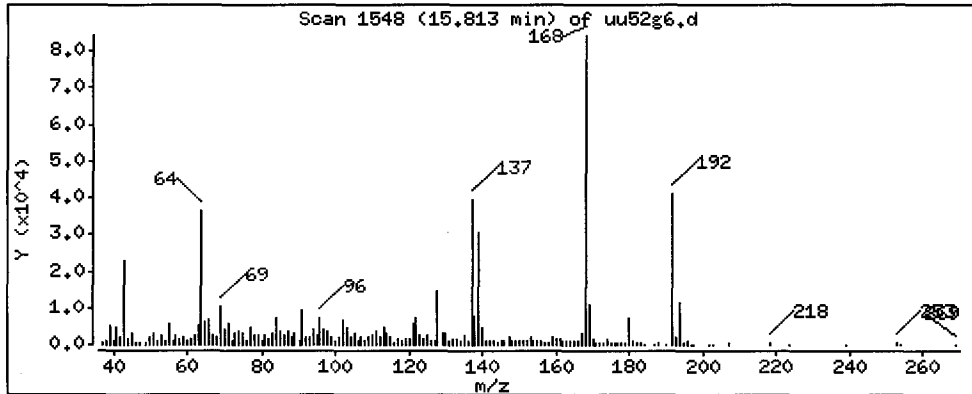
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 536.2 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

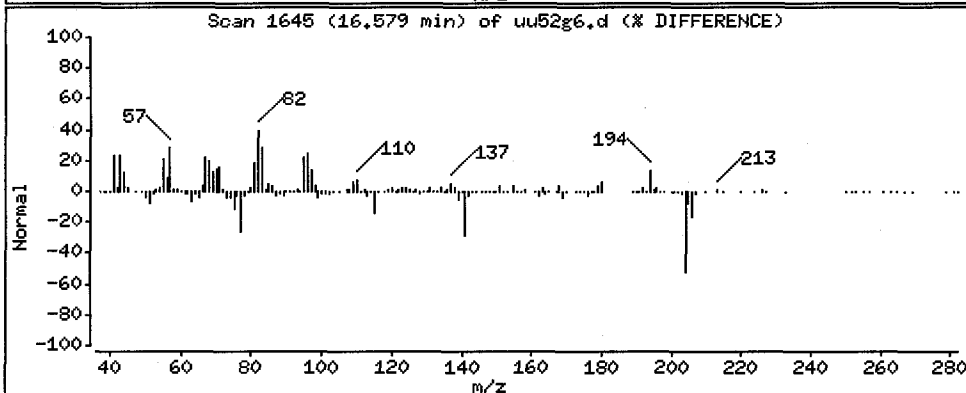
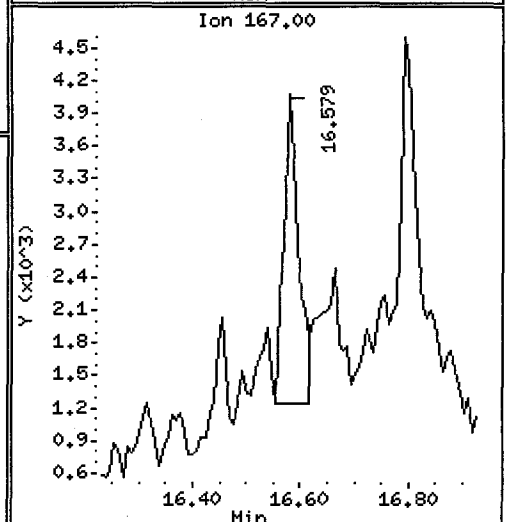
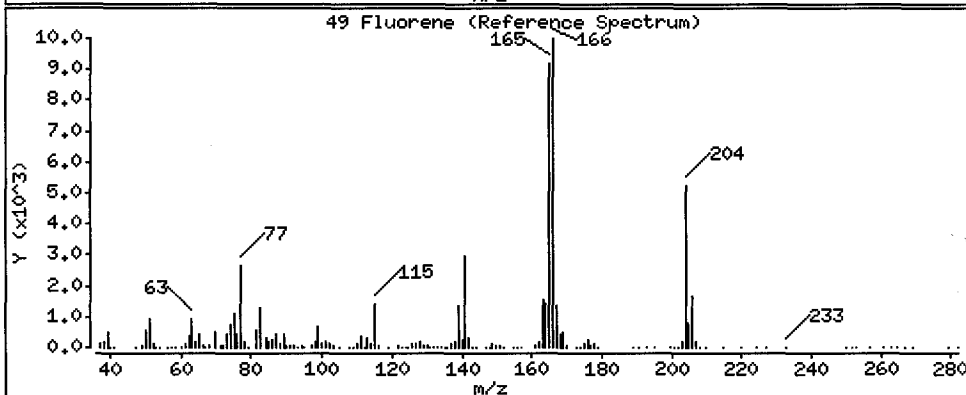
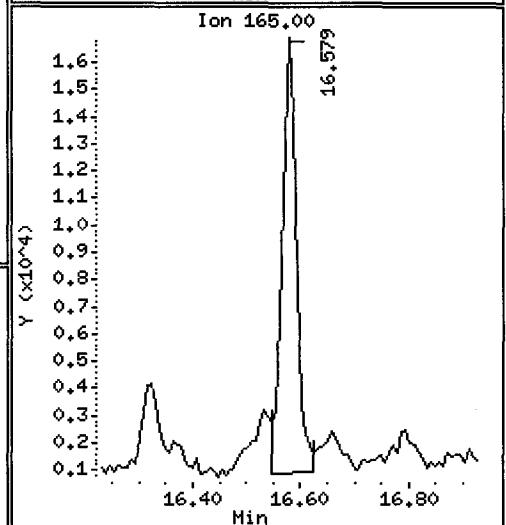
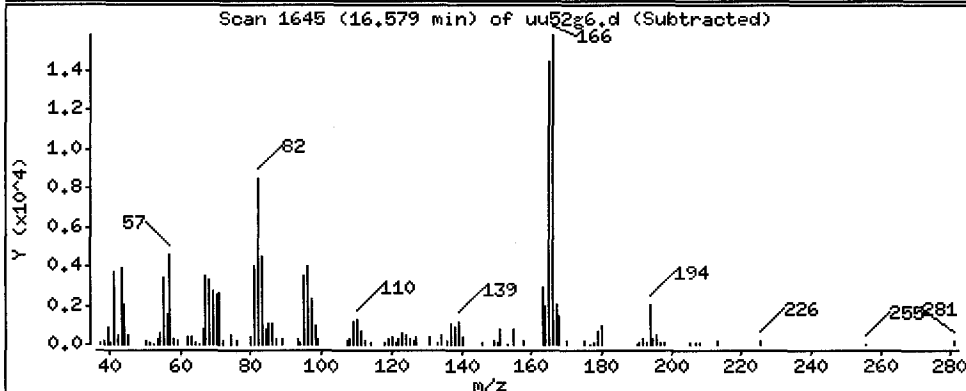
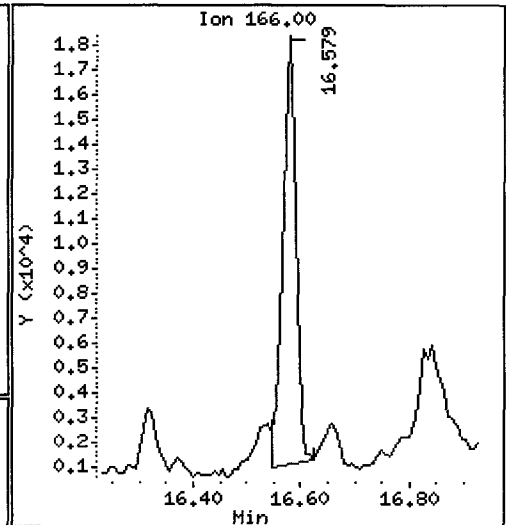
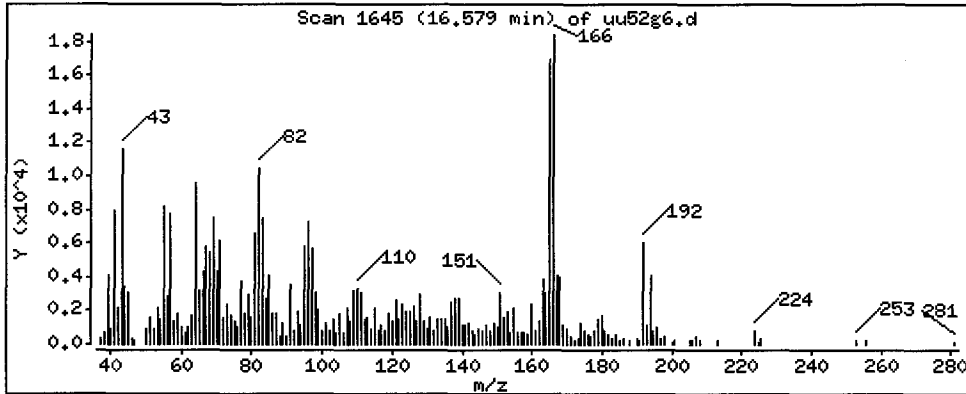
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 133.5 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

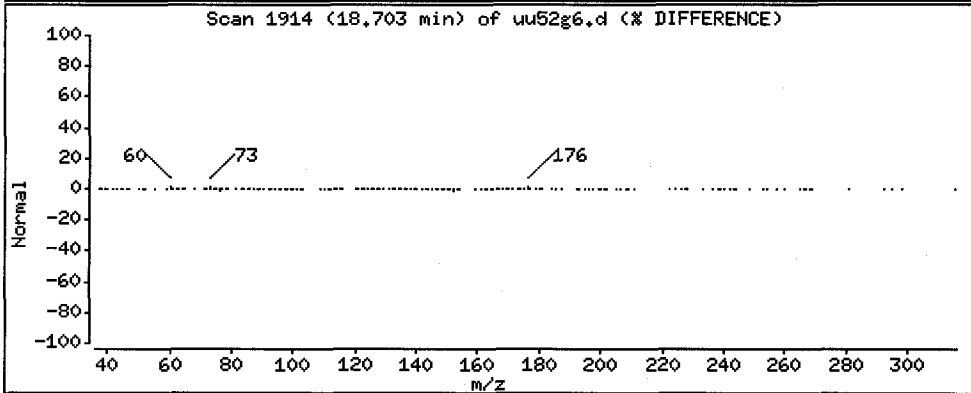
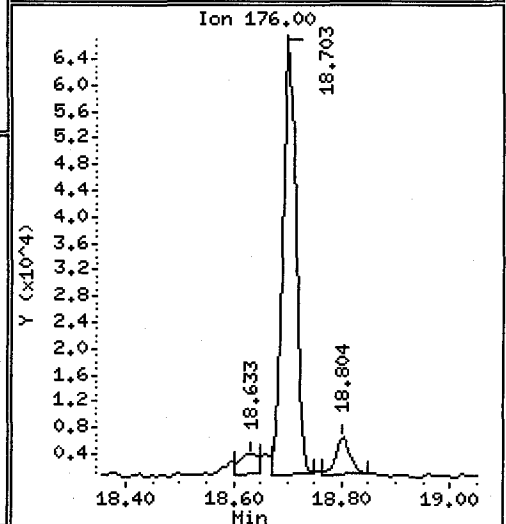
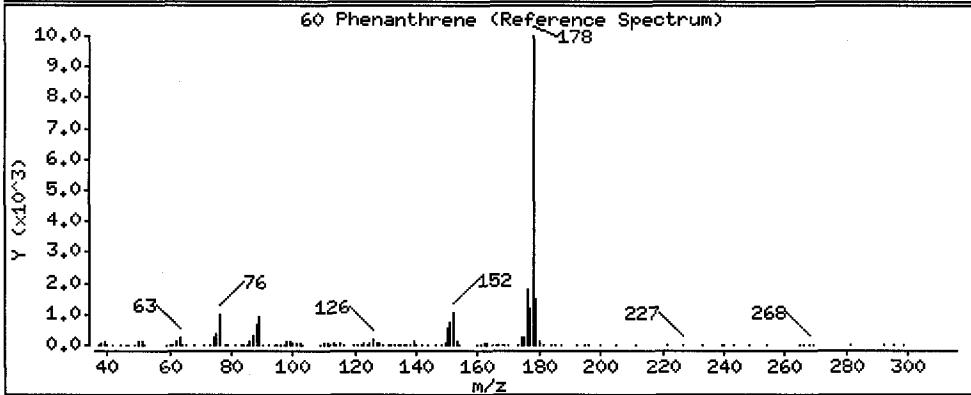
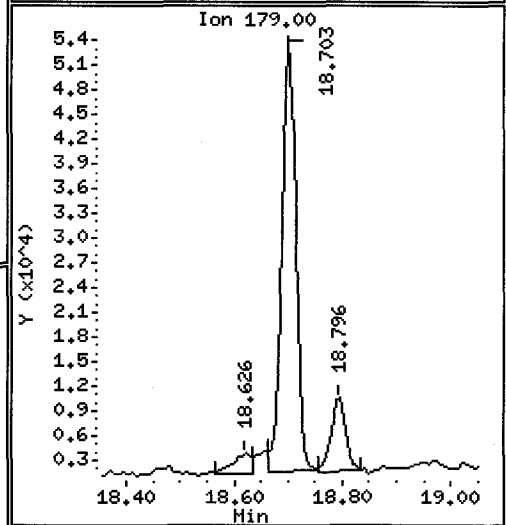
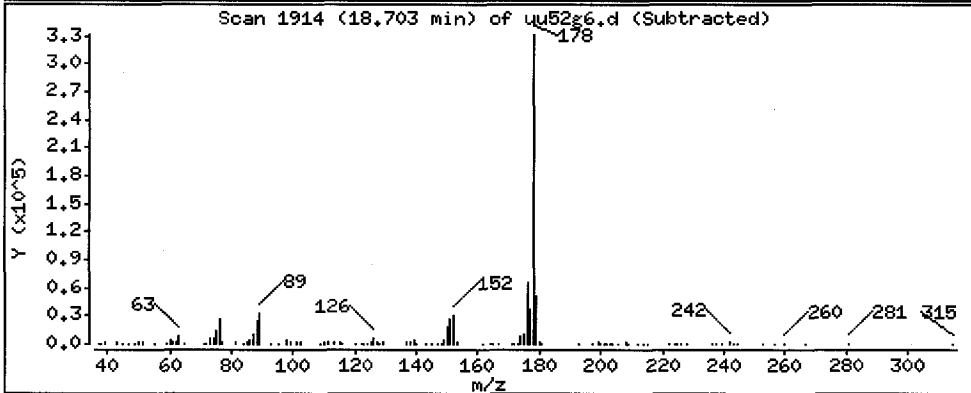
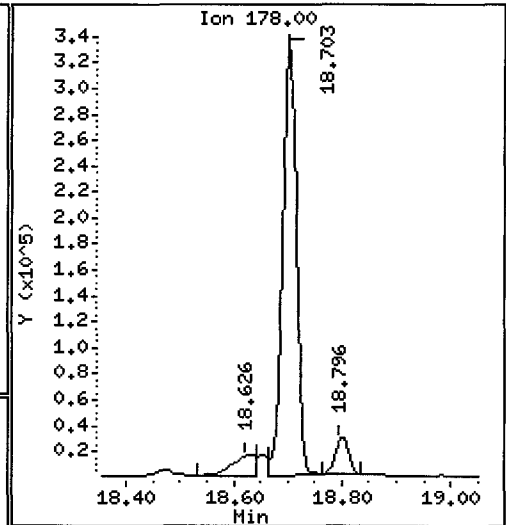
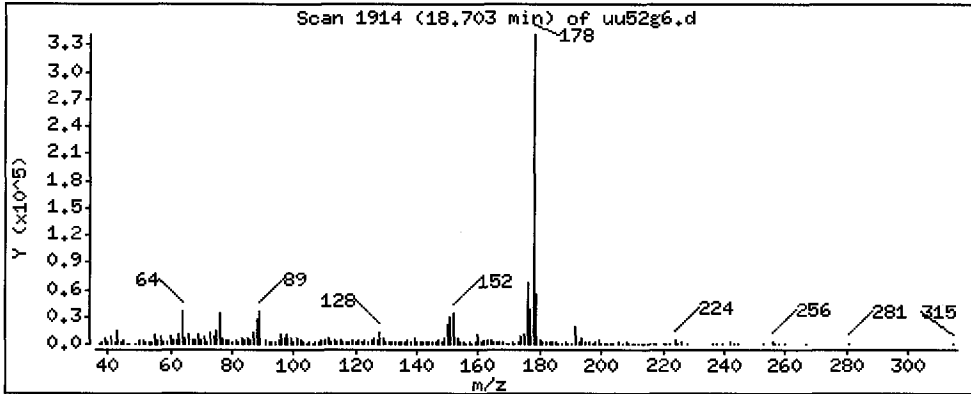
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 2165 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

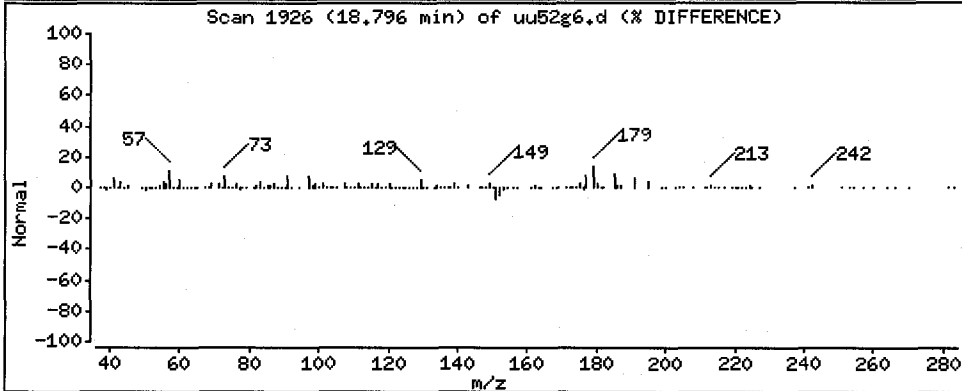
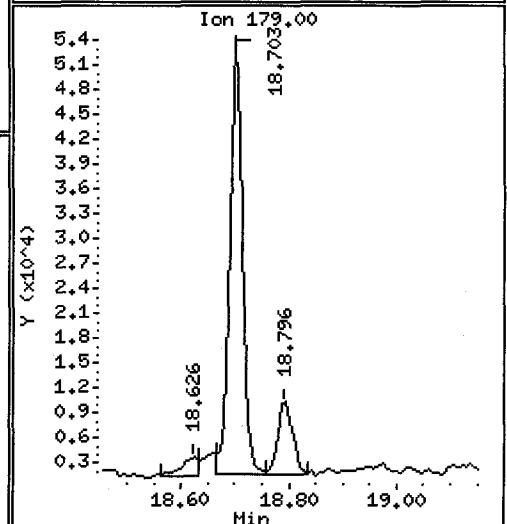
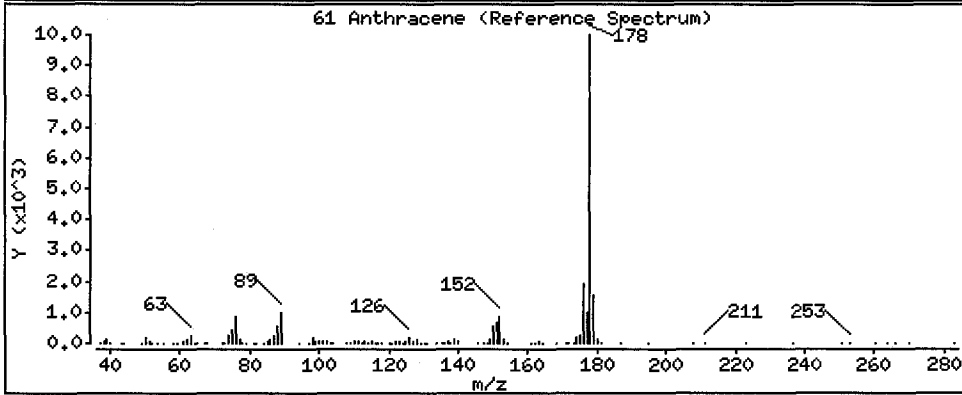
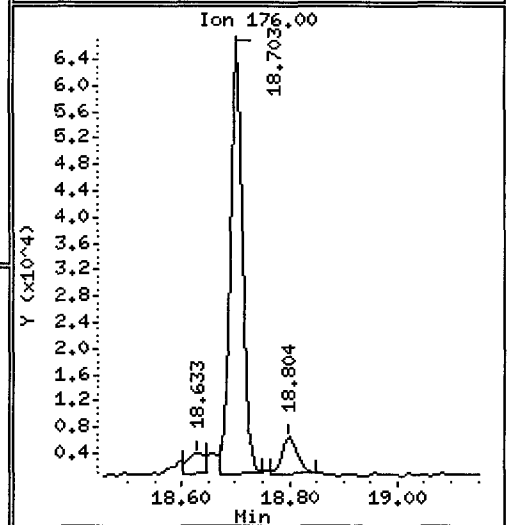
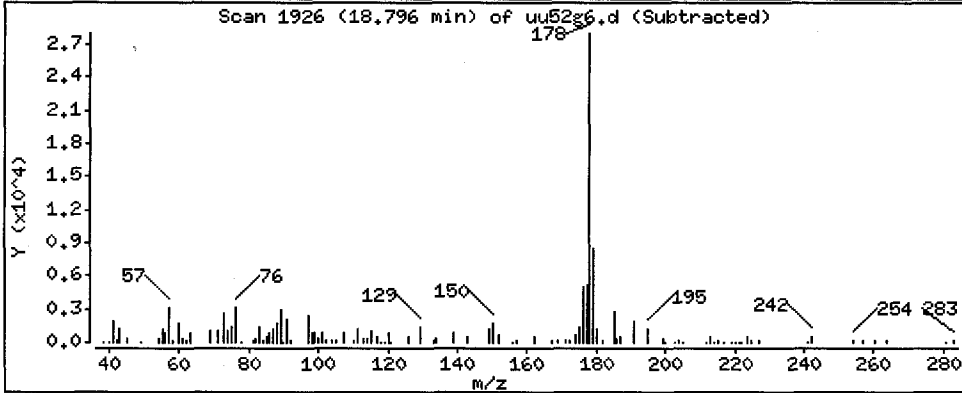
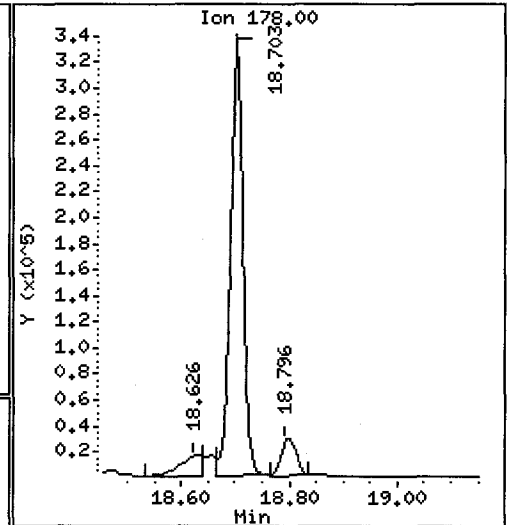
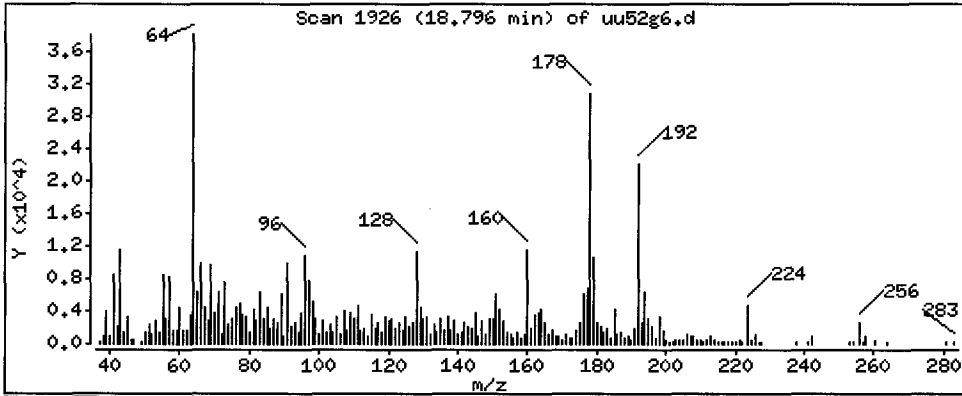
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 195.2 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

Operator: VTS/YZ

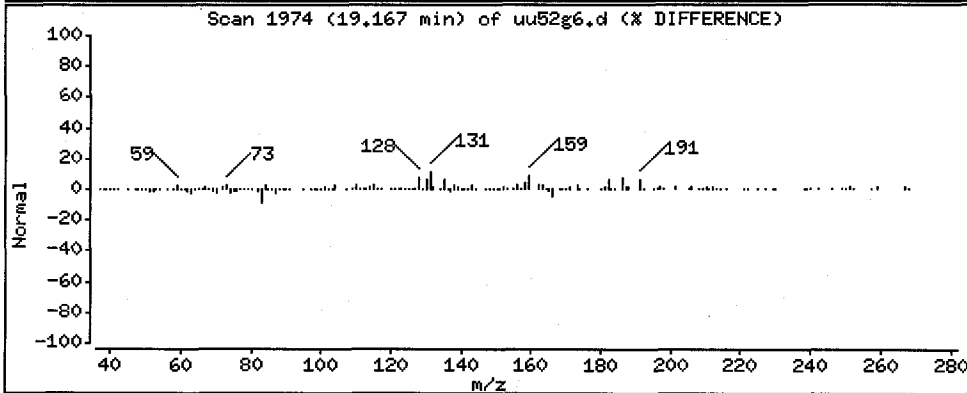
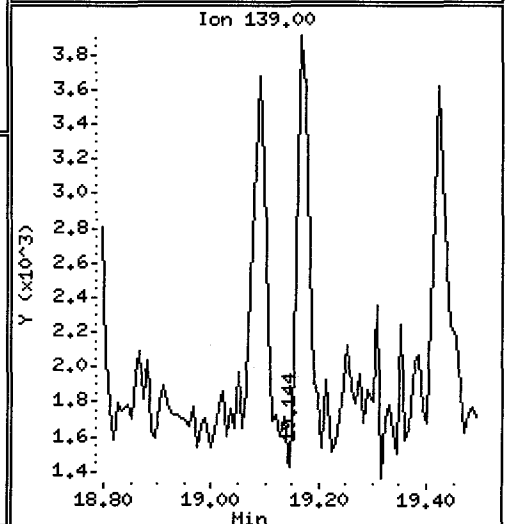
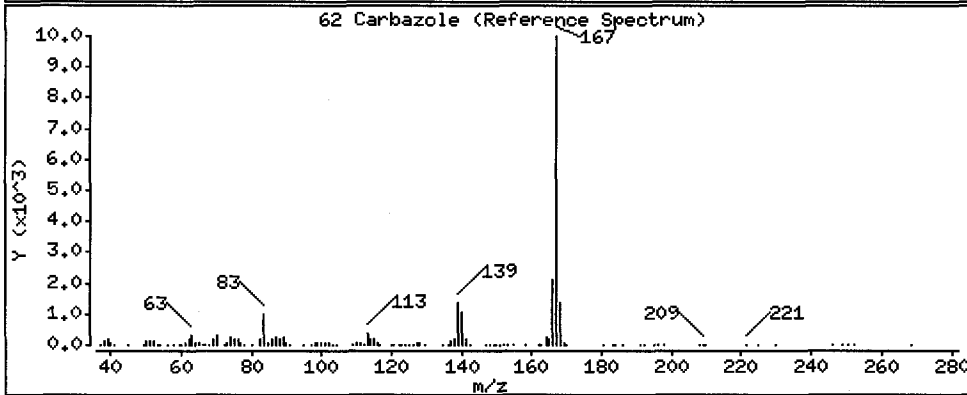
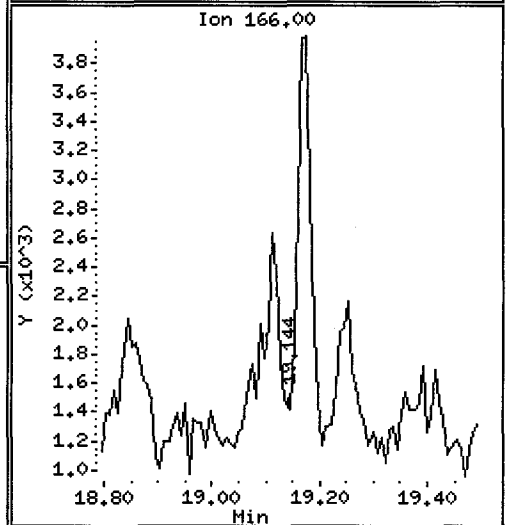
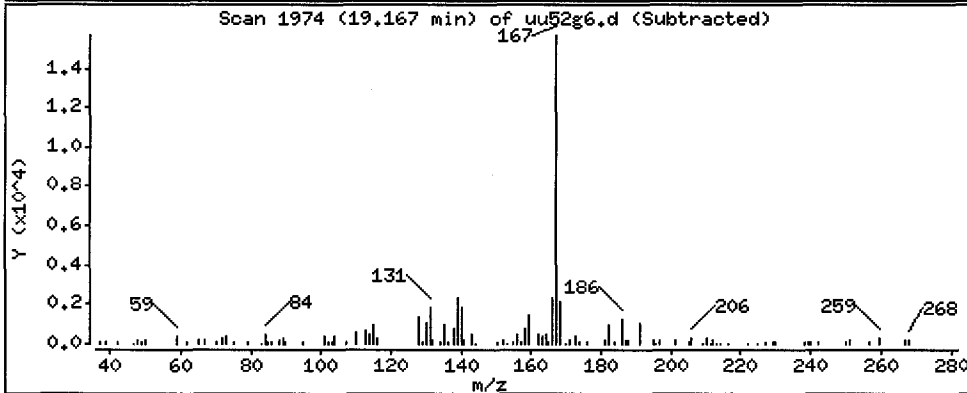
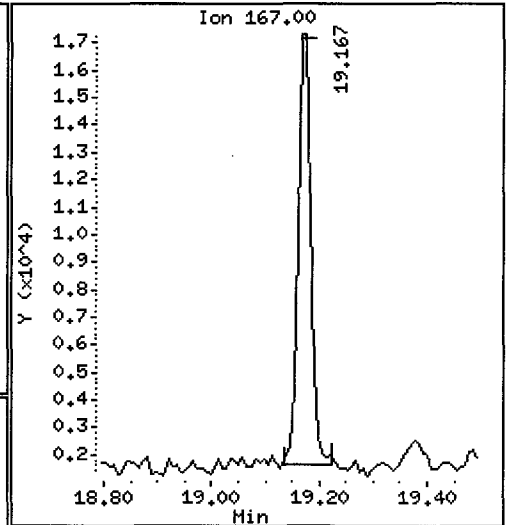
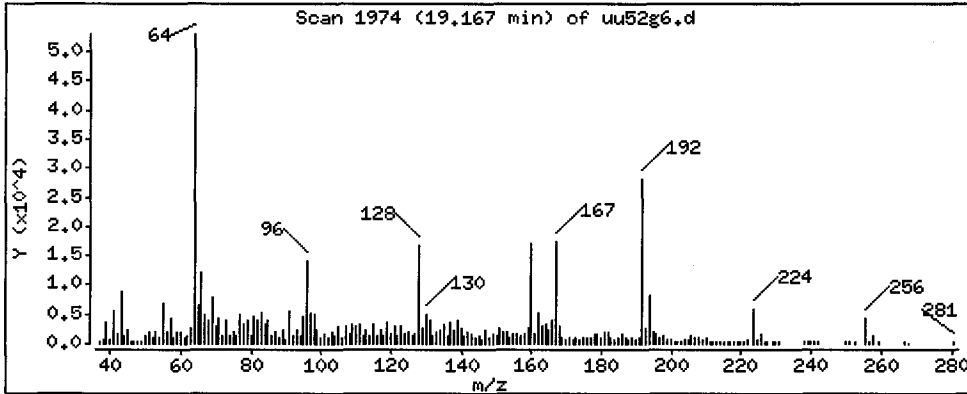
Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 109.1 ug/kg

OK!



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

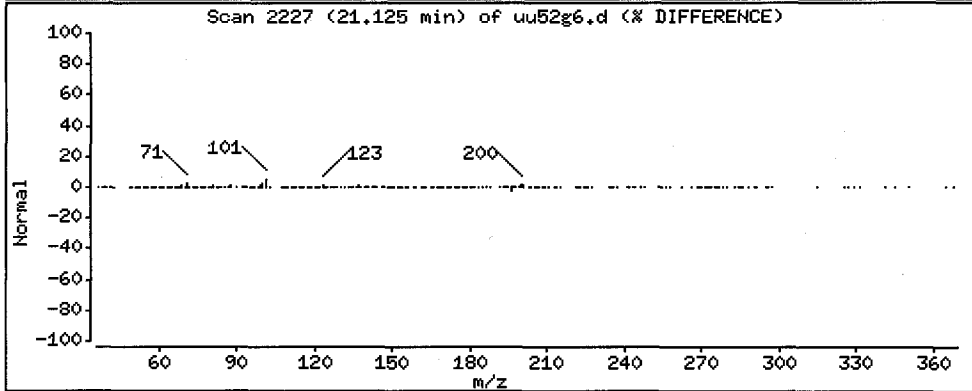
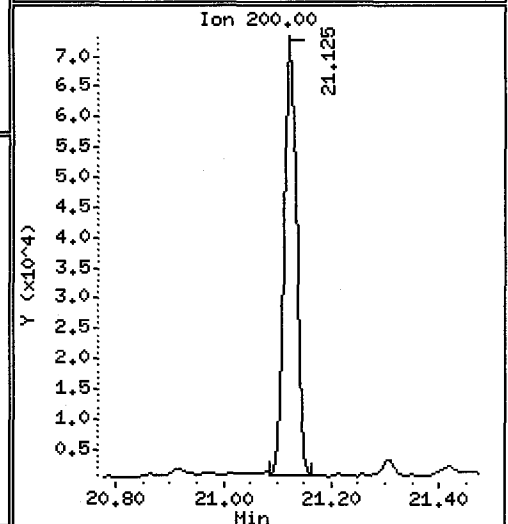
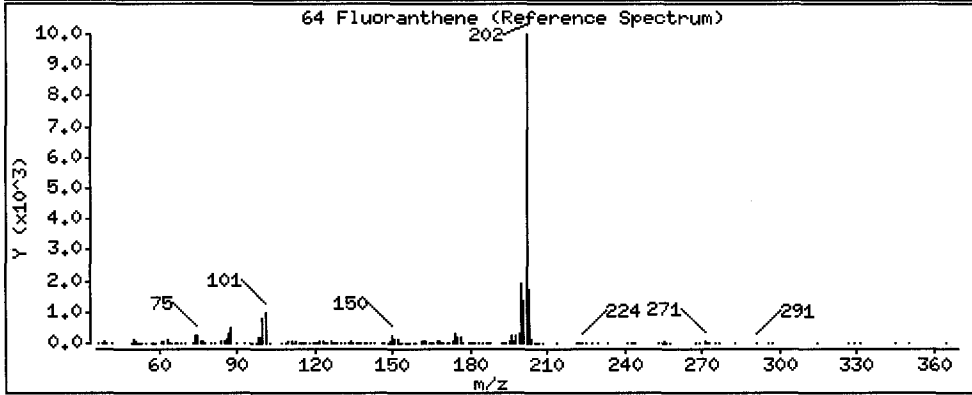
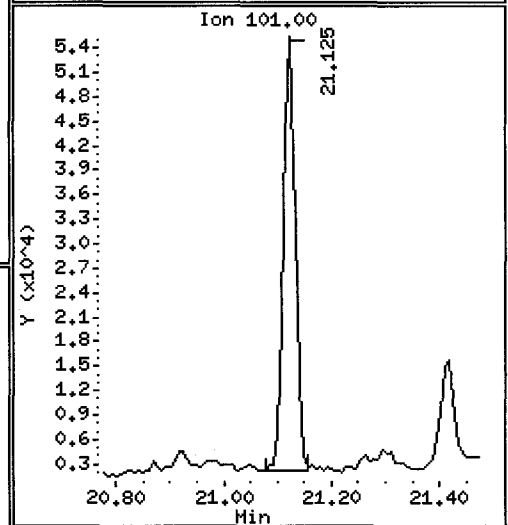
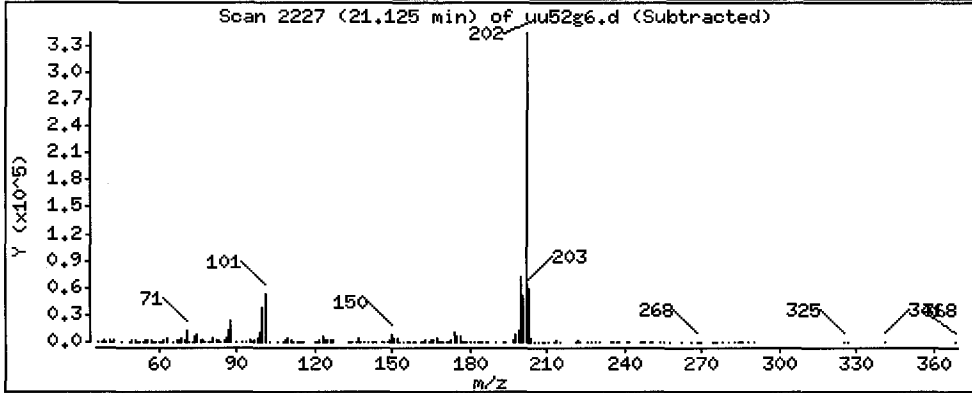
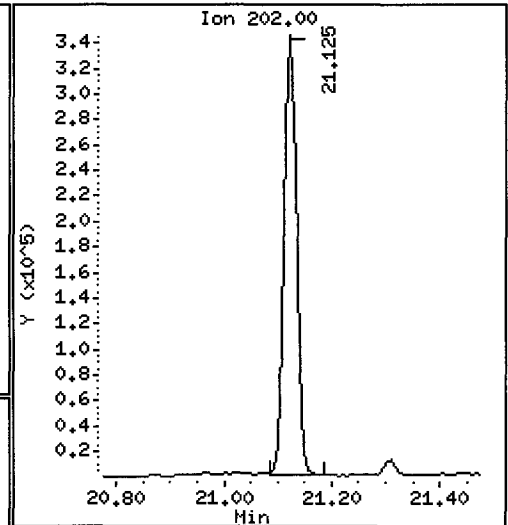
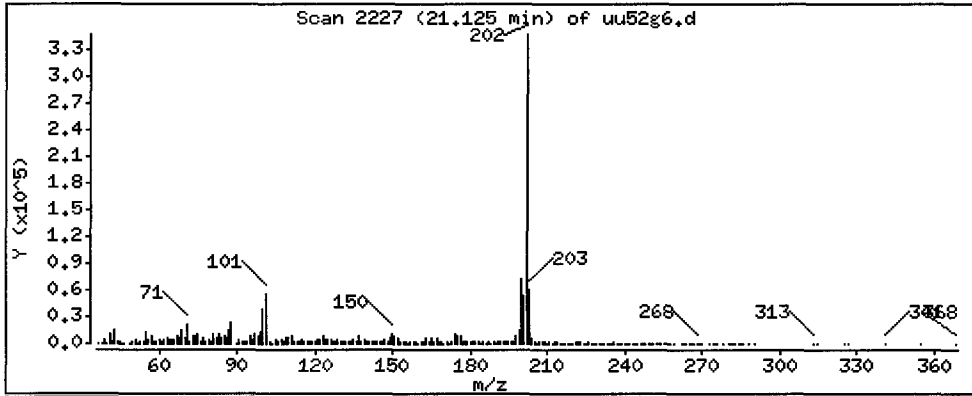
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 1786 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

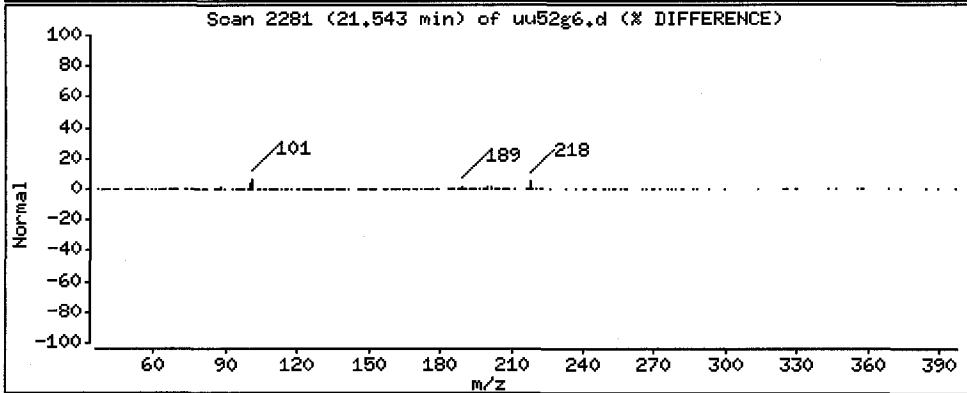
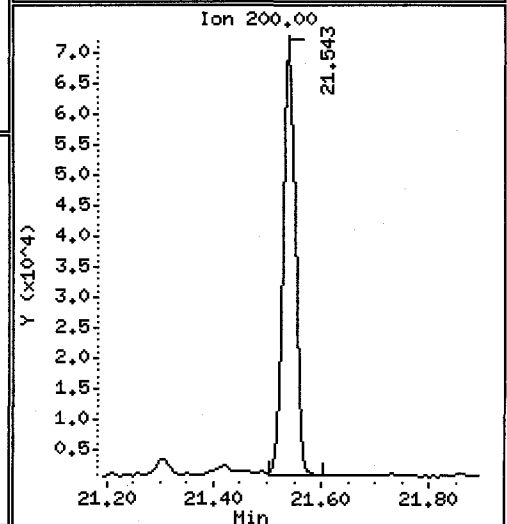
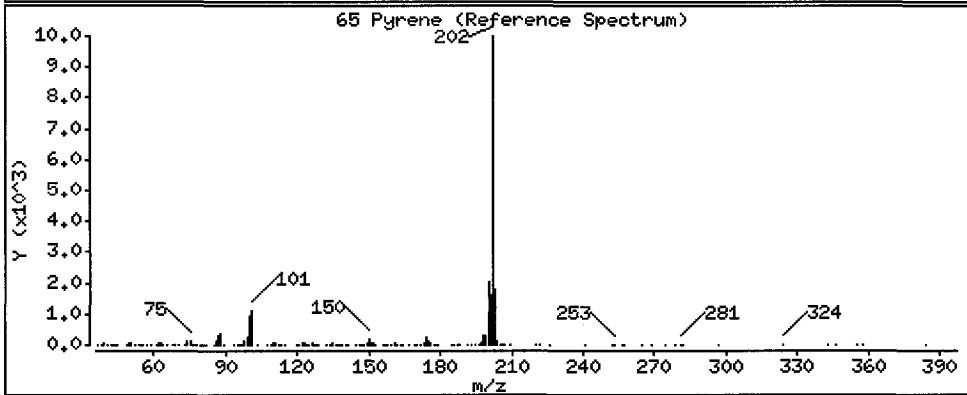
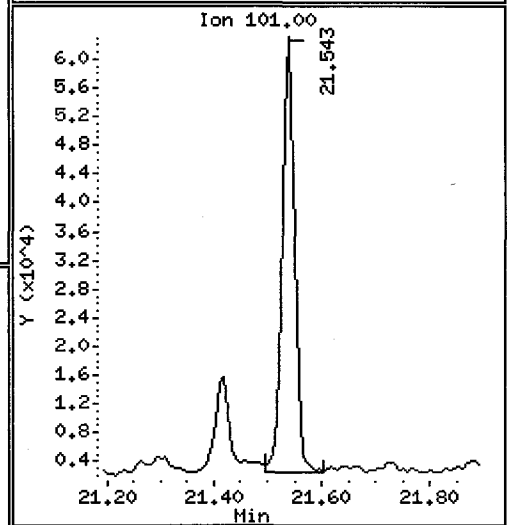
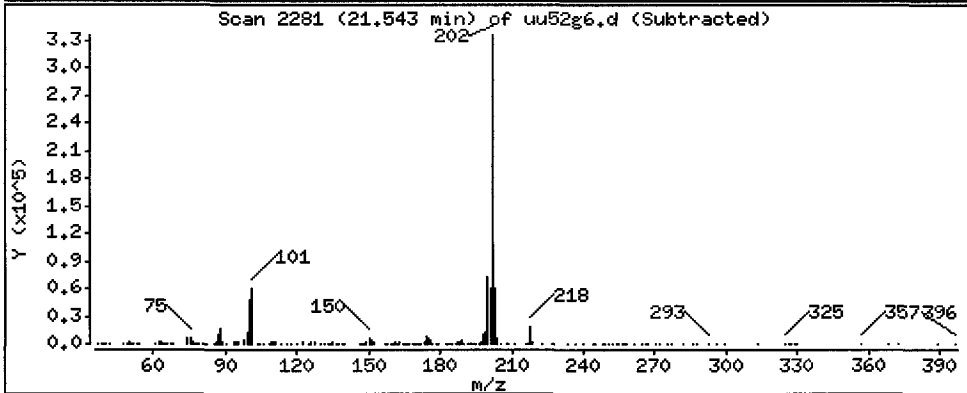
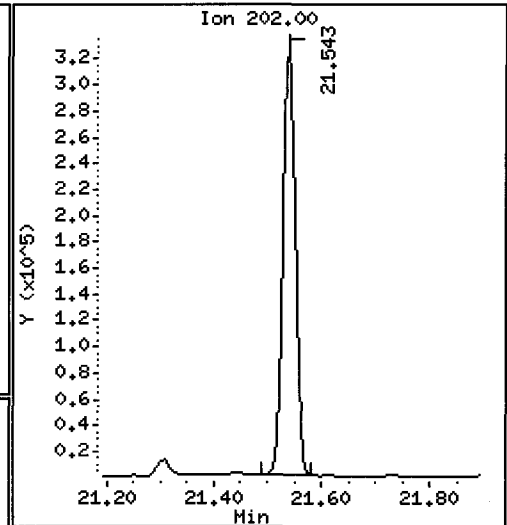
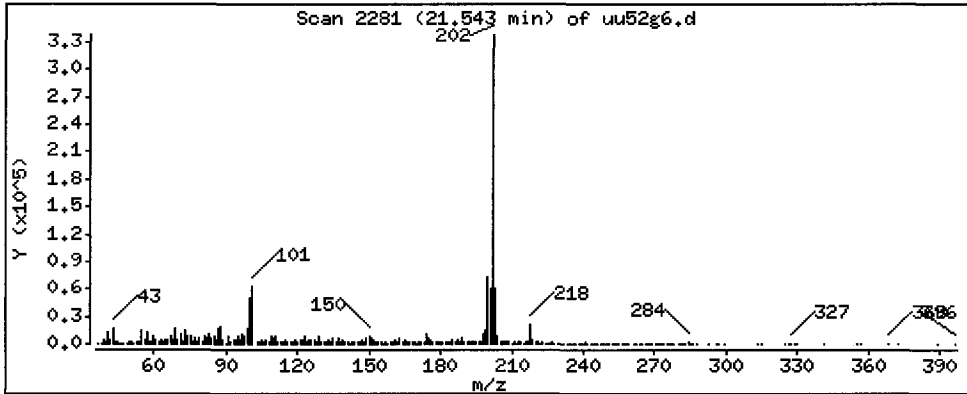
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 1340 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

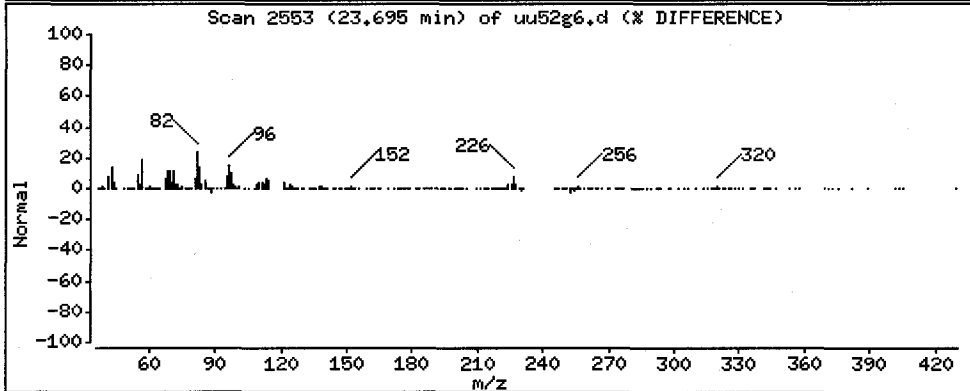
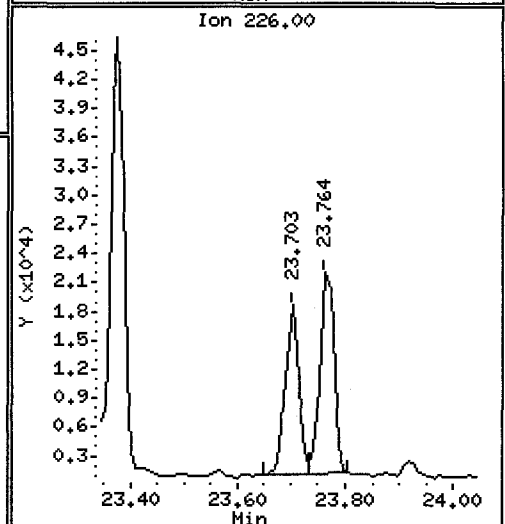
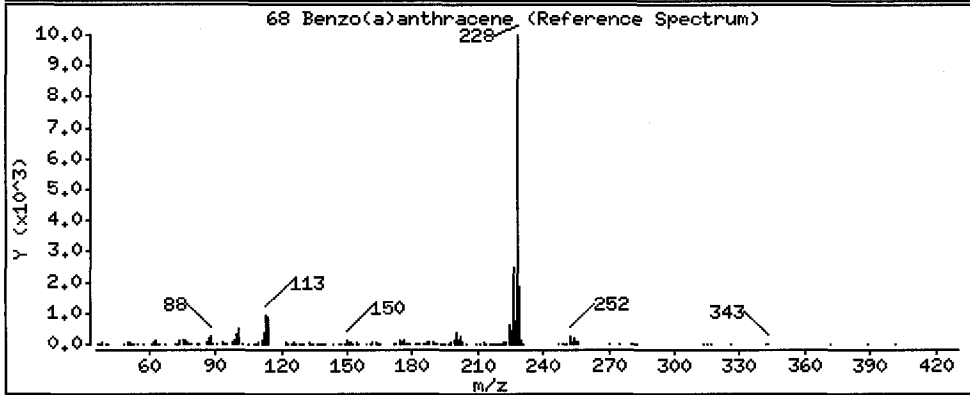
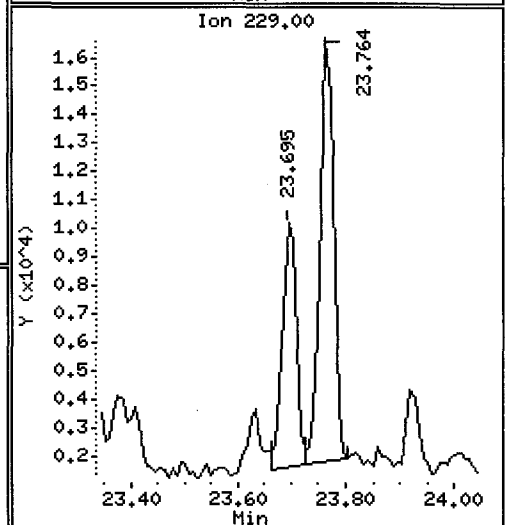
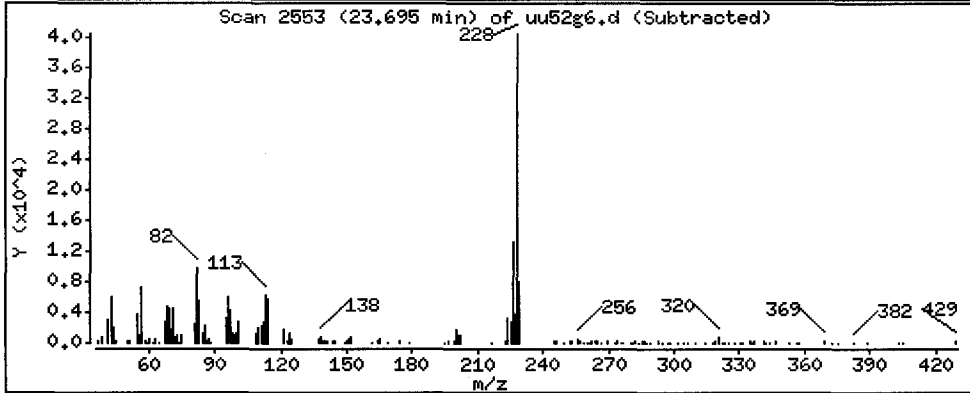
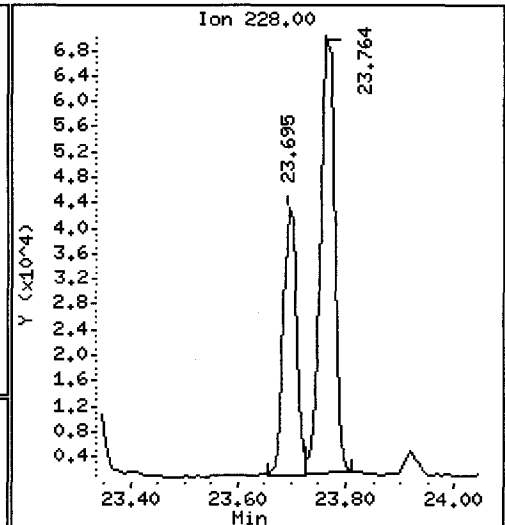
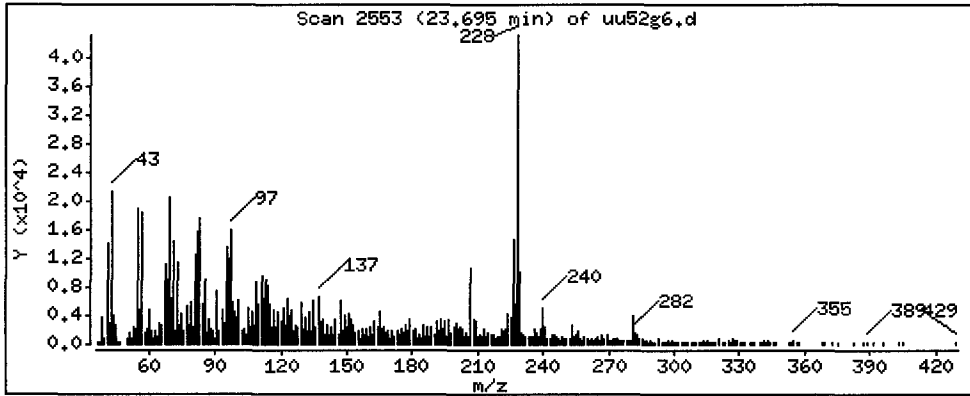
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 207.2 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

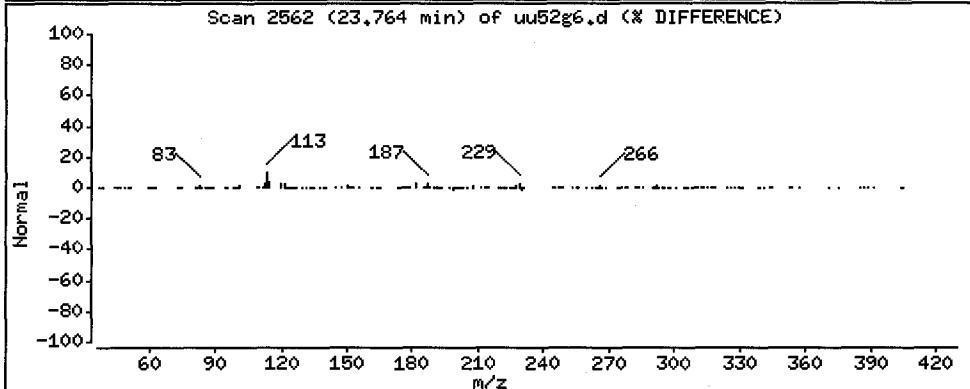
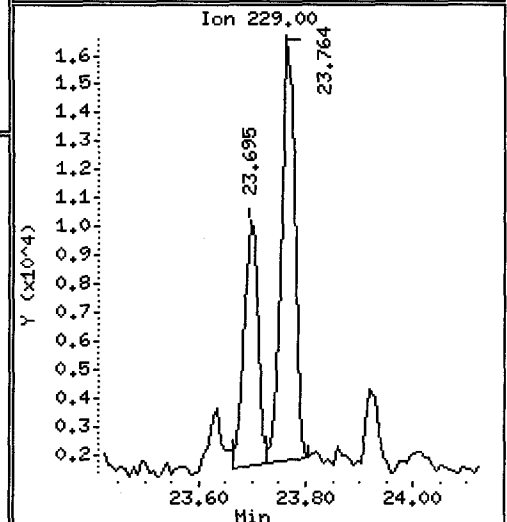
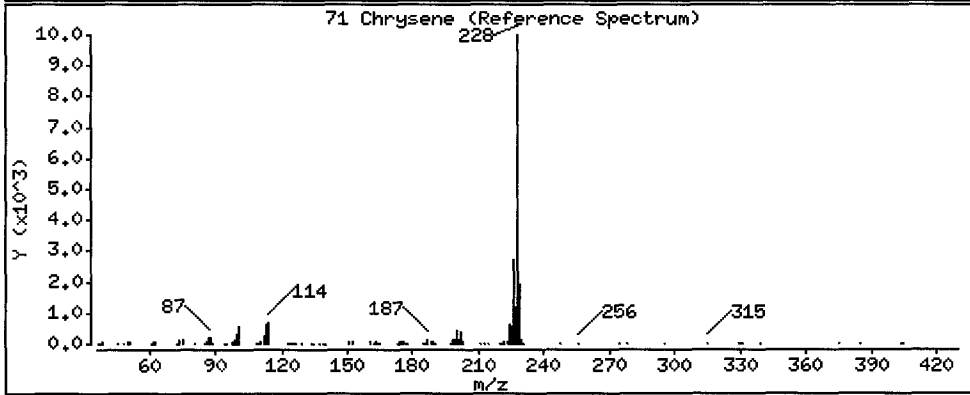
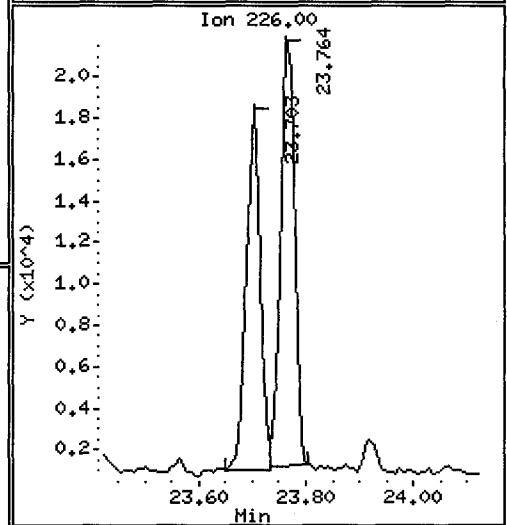
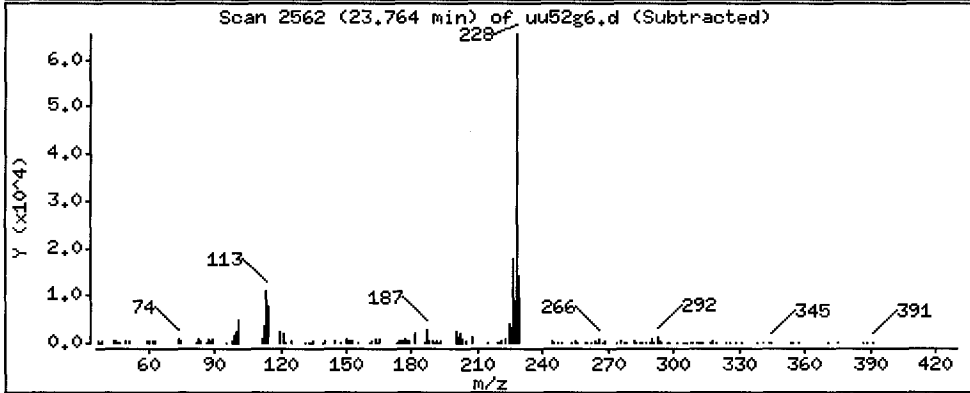
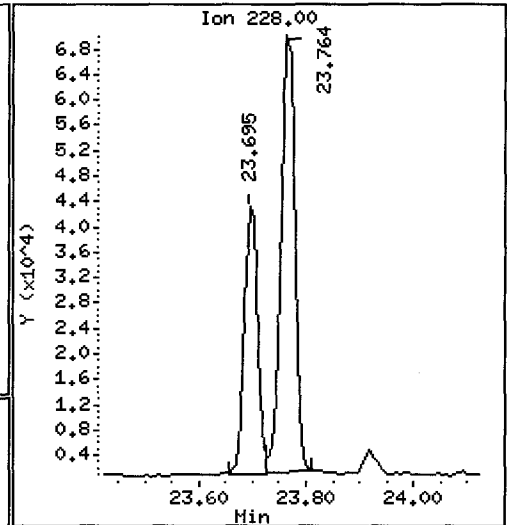
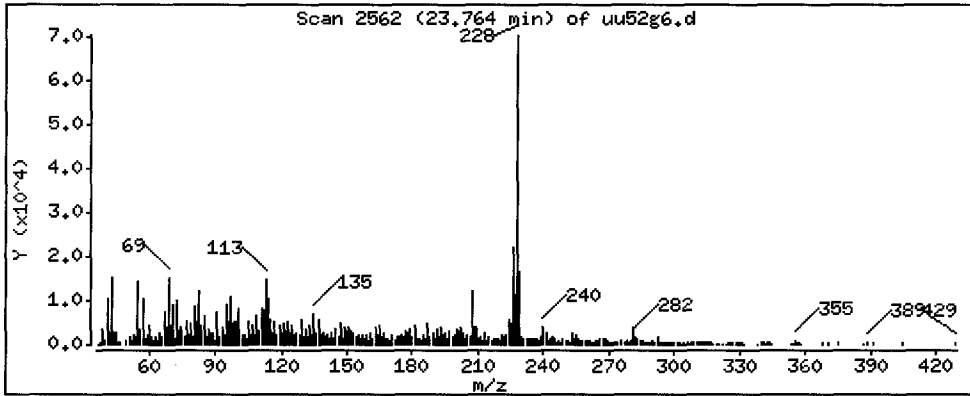
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 399.8 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

Operator: VTS/YZ

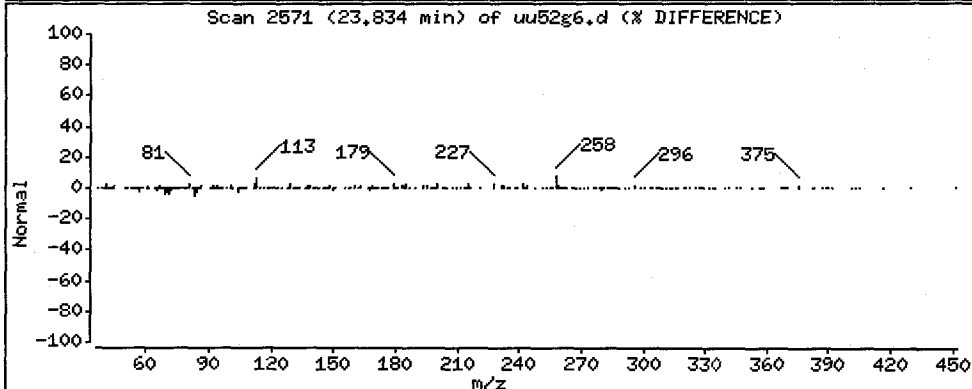
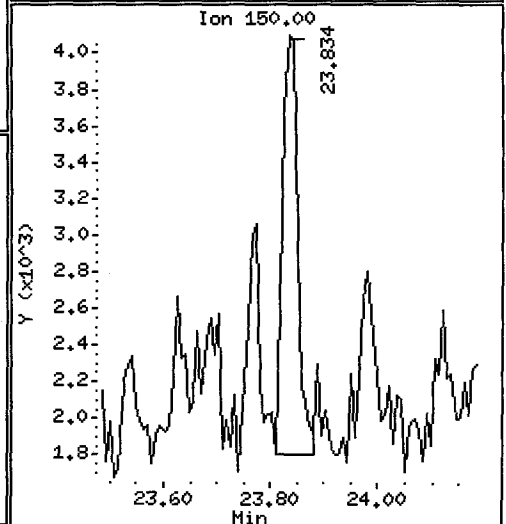
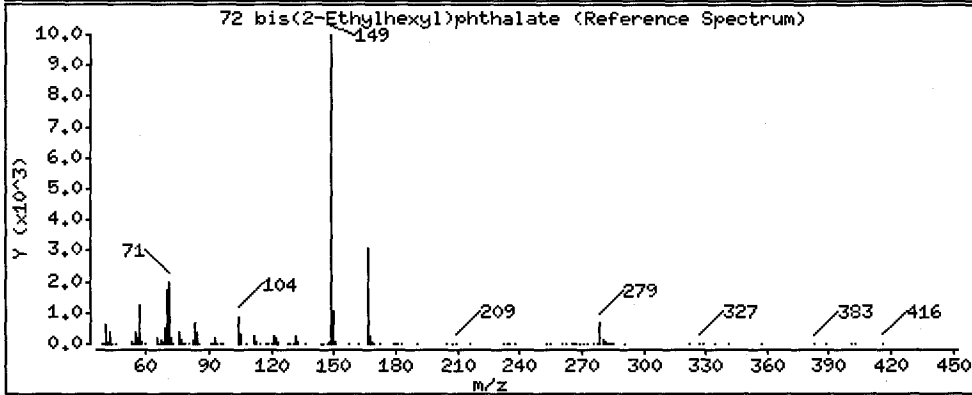
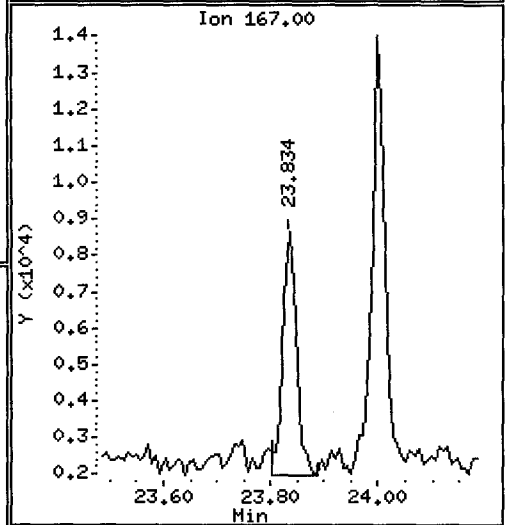
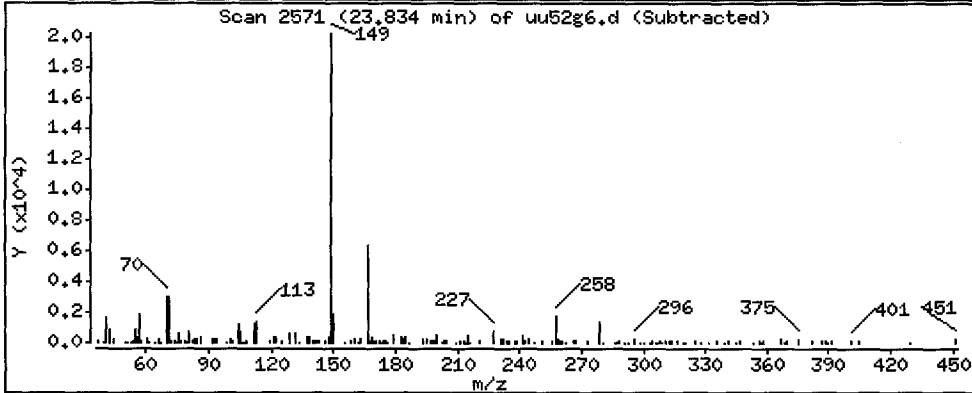
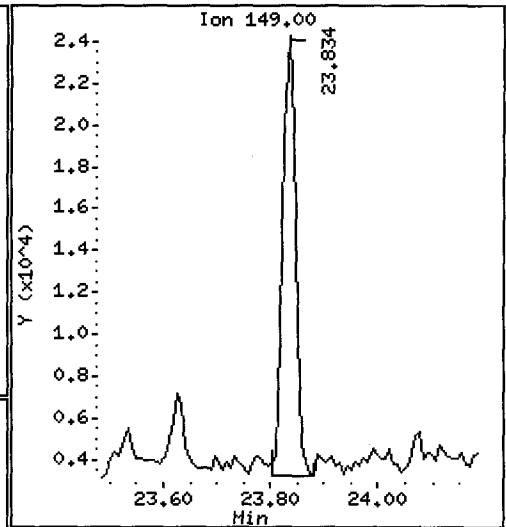
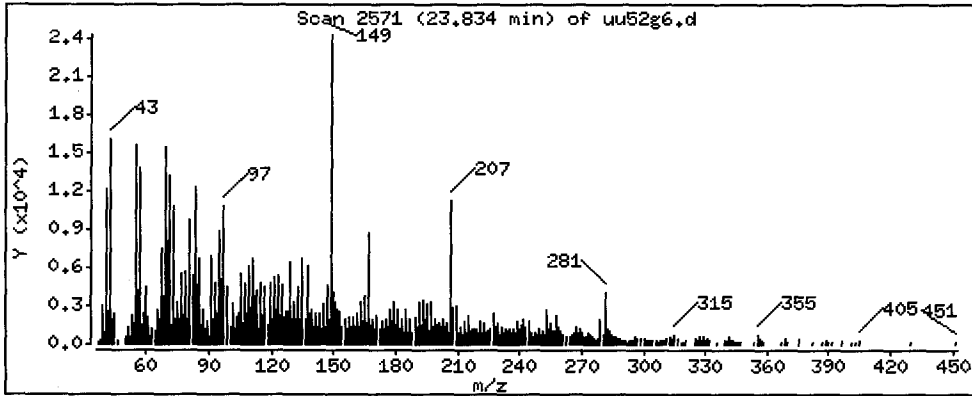
Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 131.6 ug/kg

Oyrl



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

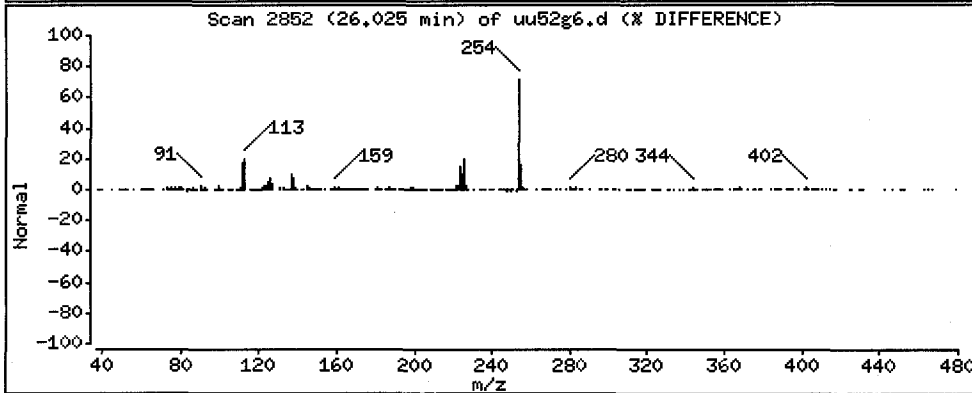
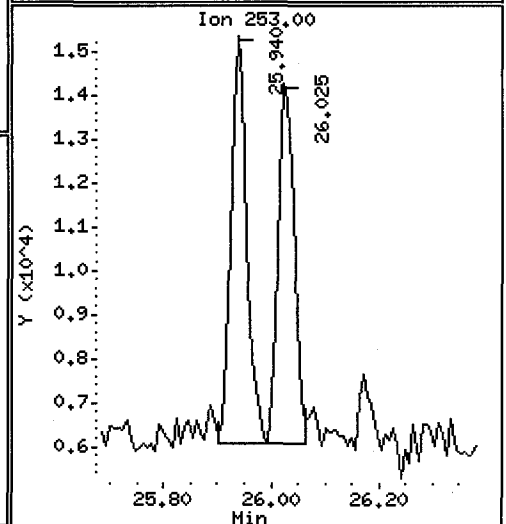
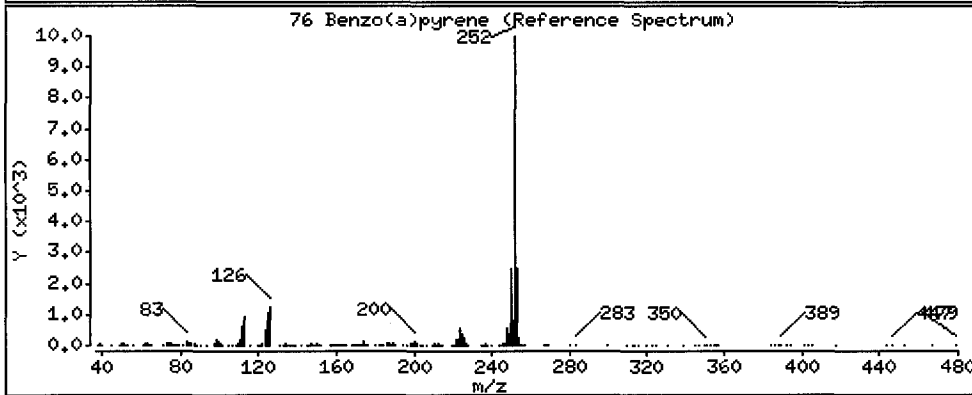
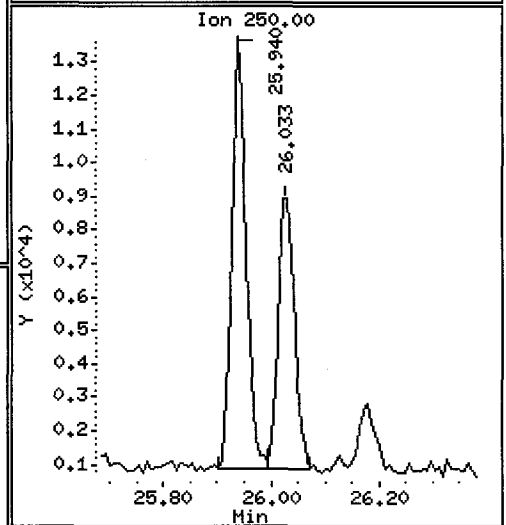
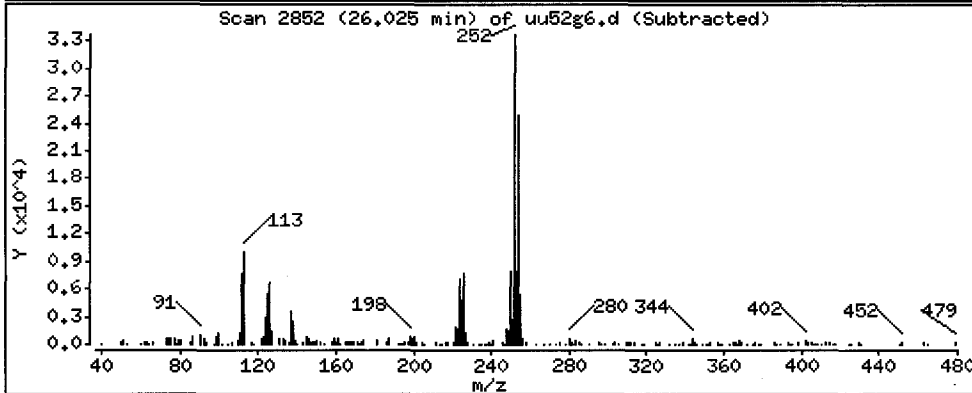
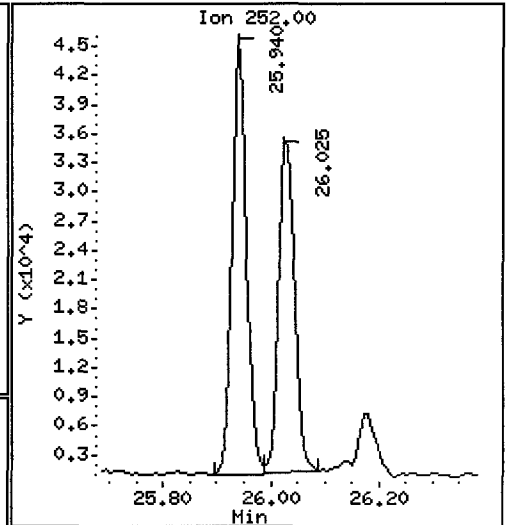
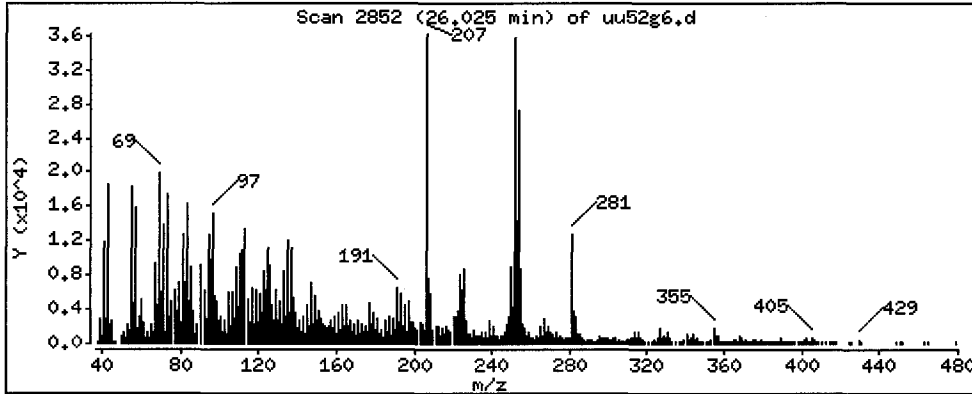
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 238.5 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

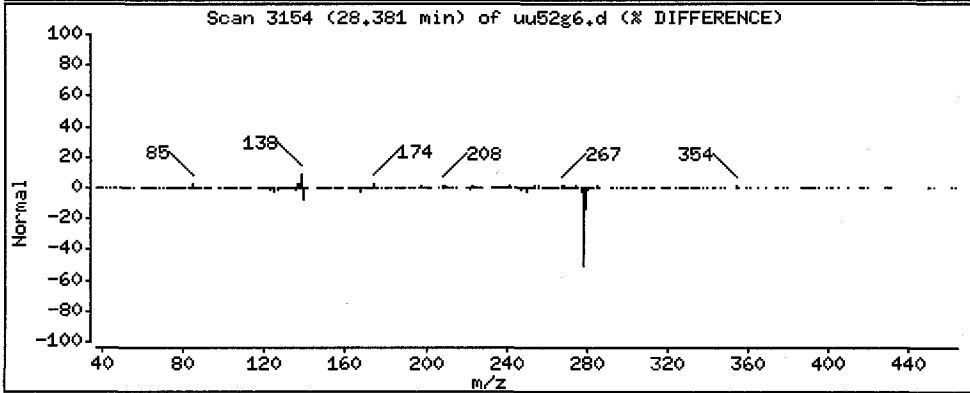
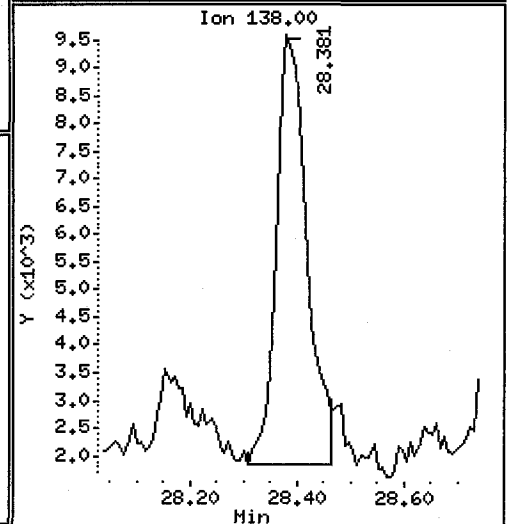
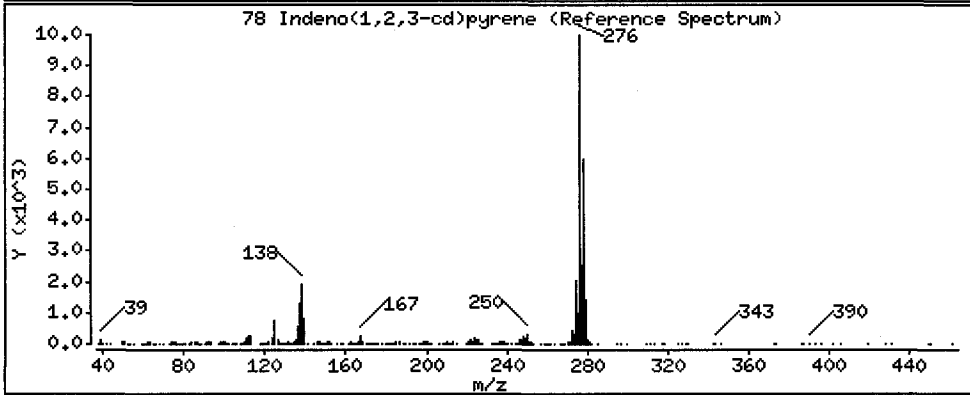
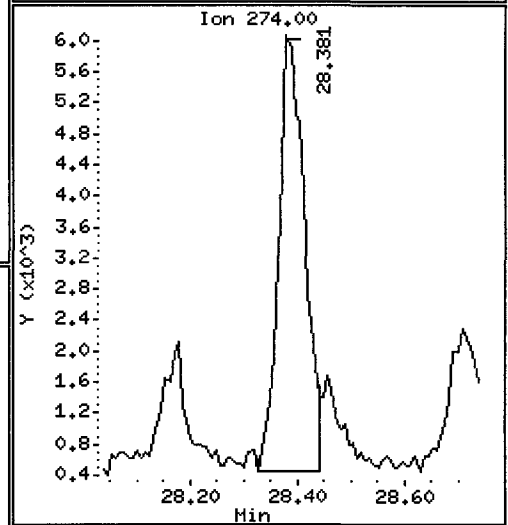
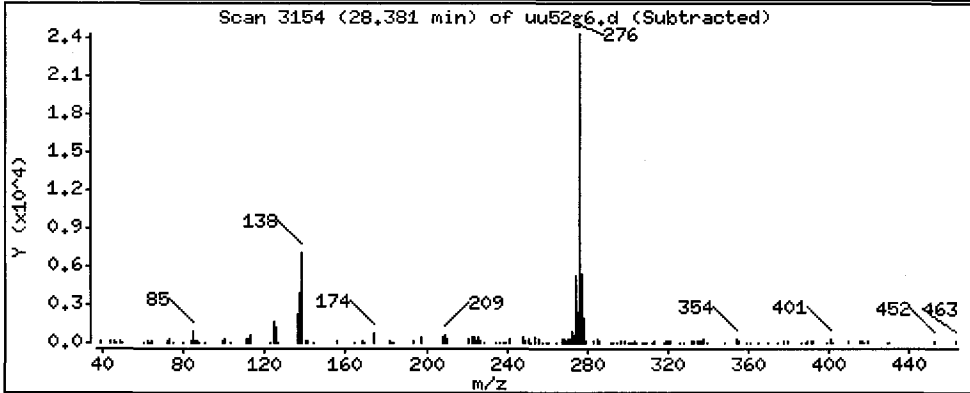
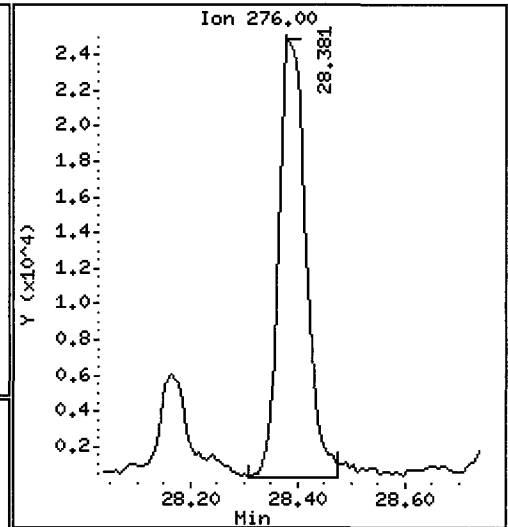
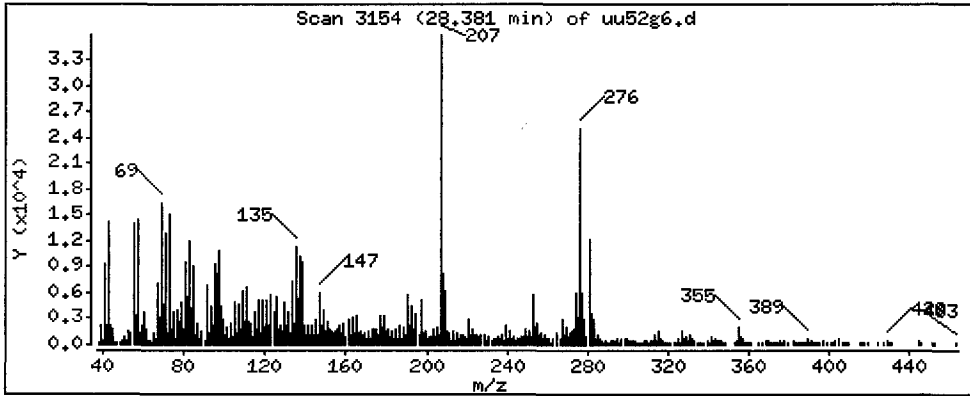
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

78 Indeno(1,2,3-cd)pyrene

Concentration: 258.9 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

Operator: VTS/YZ

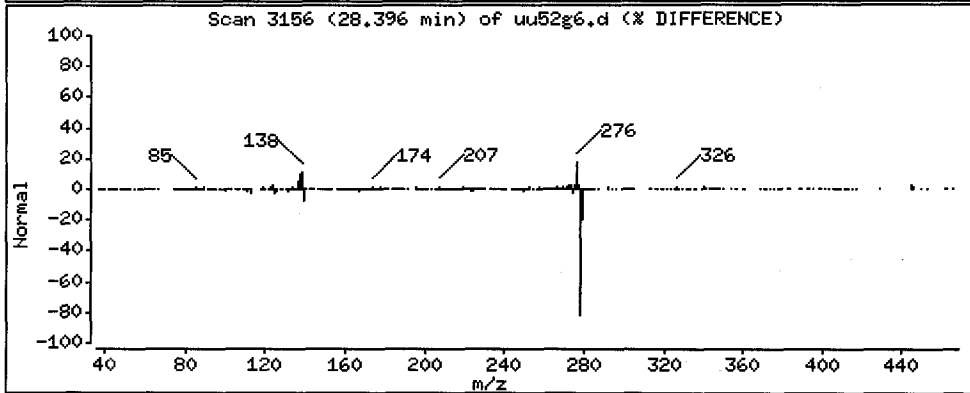
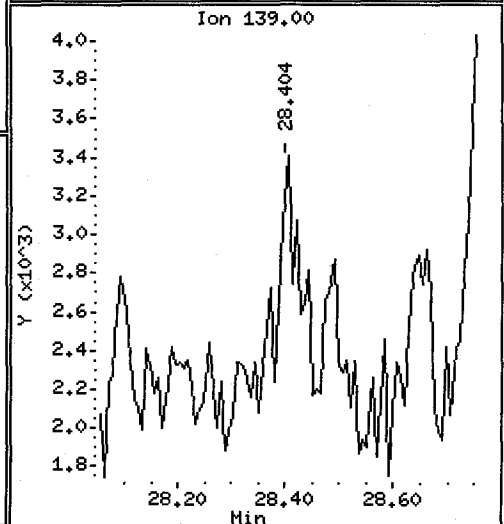
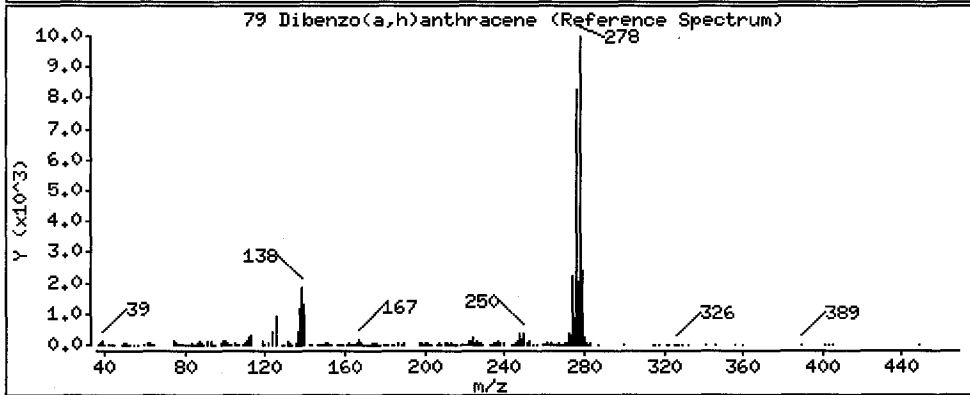
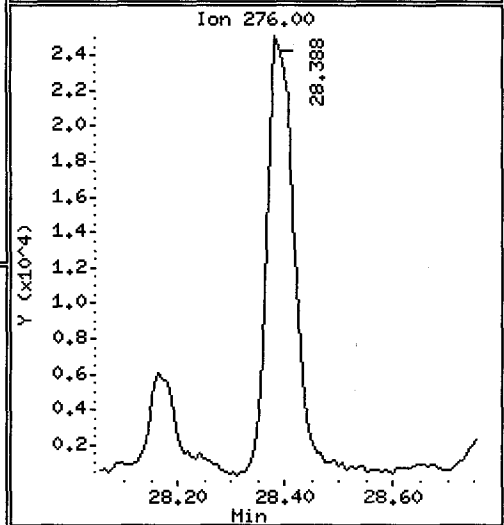
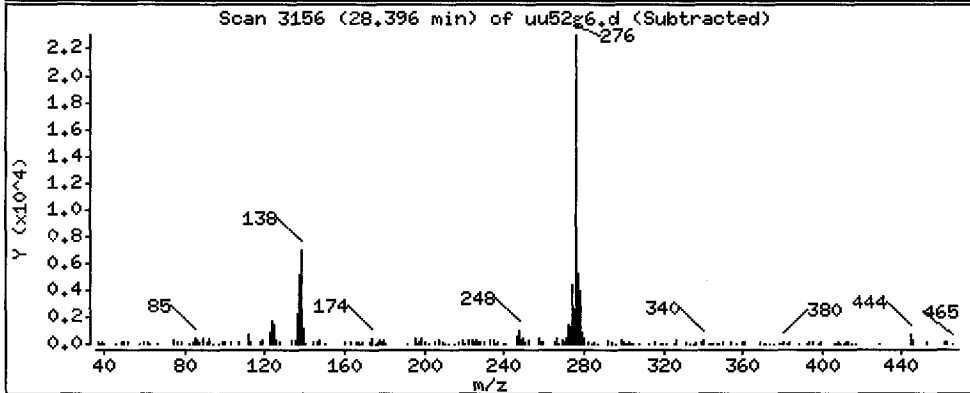
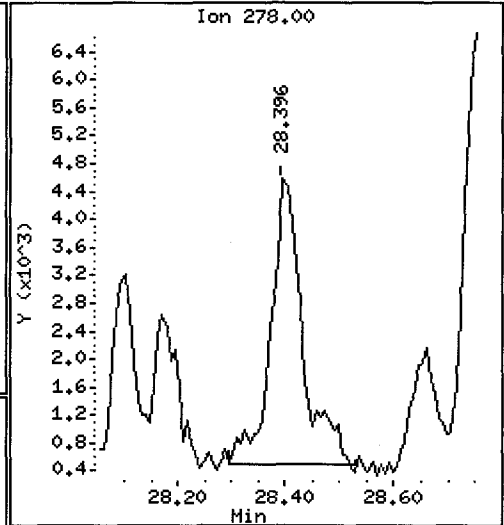
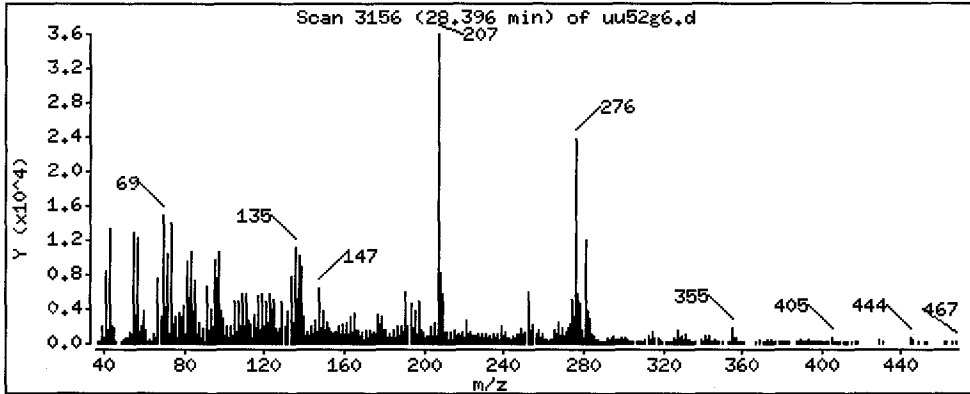
Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 62.86 ug/kg

DURL



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

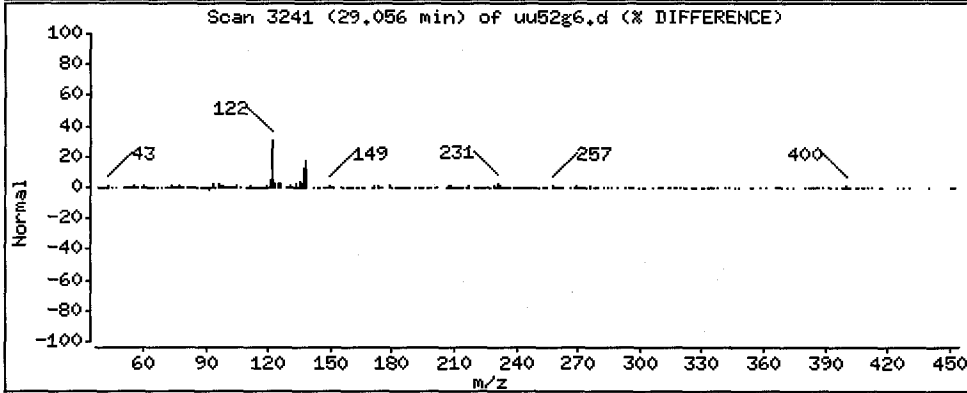
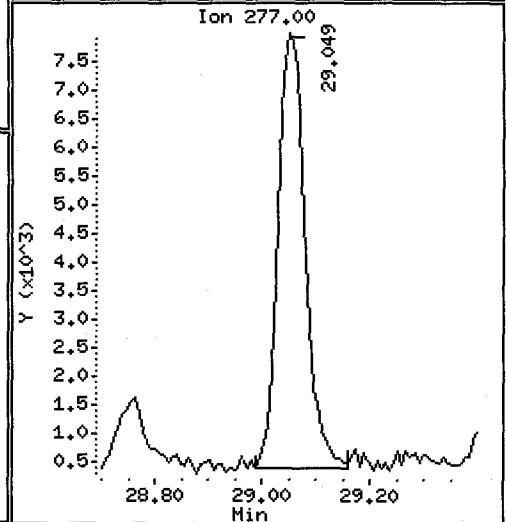
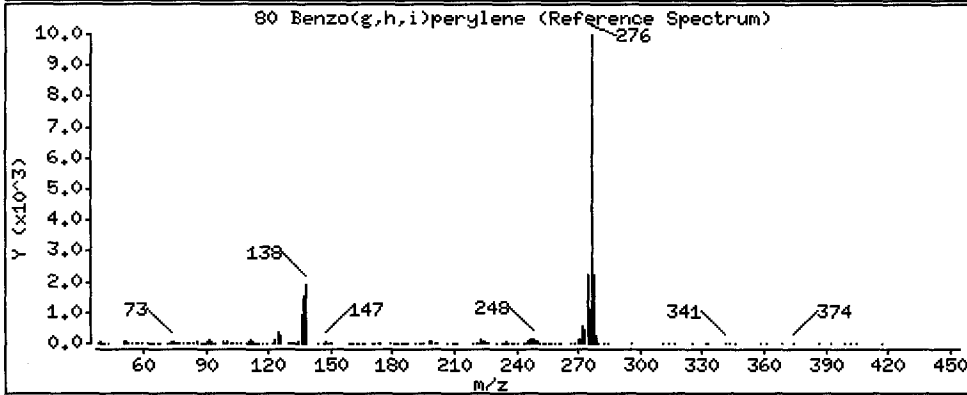
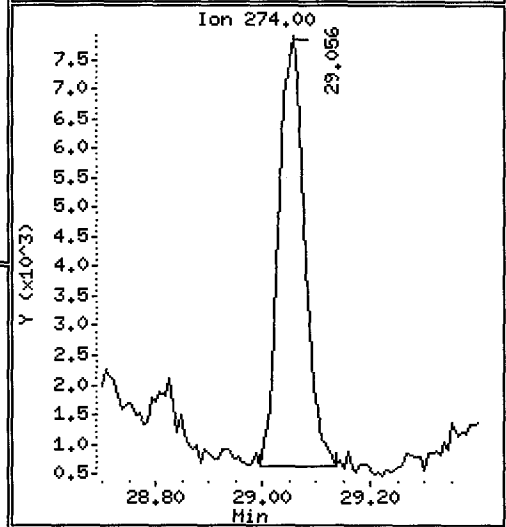
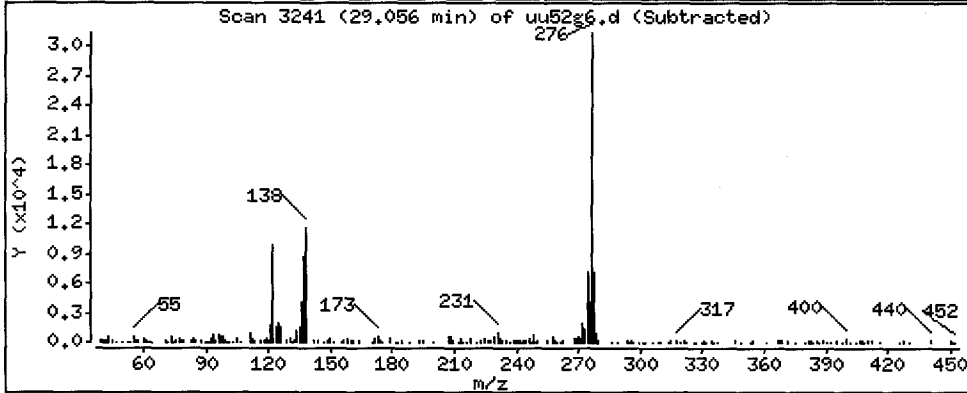
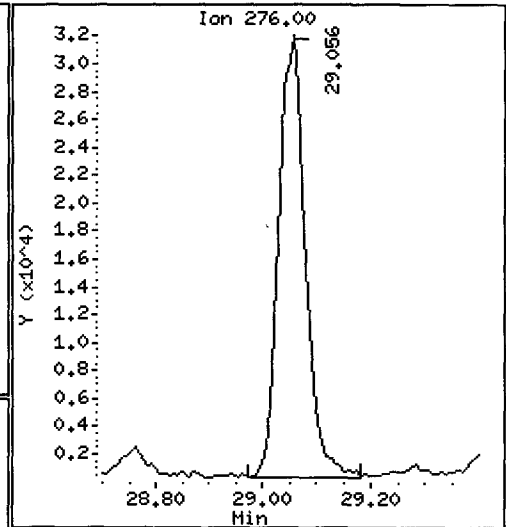
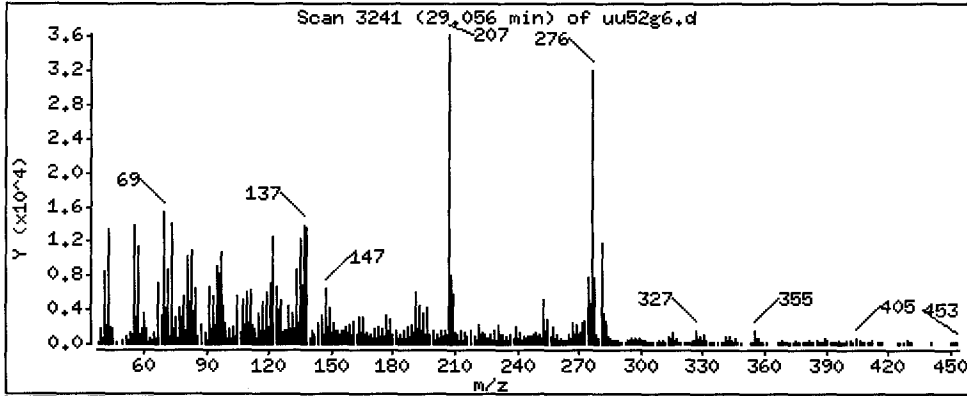
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 381.0 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

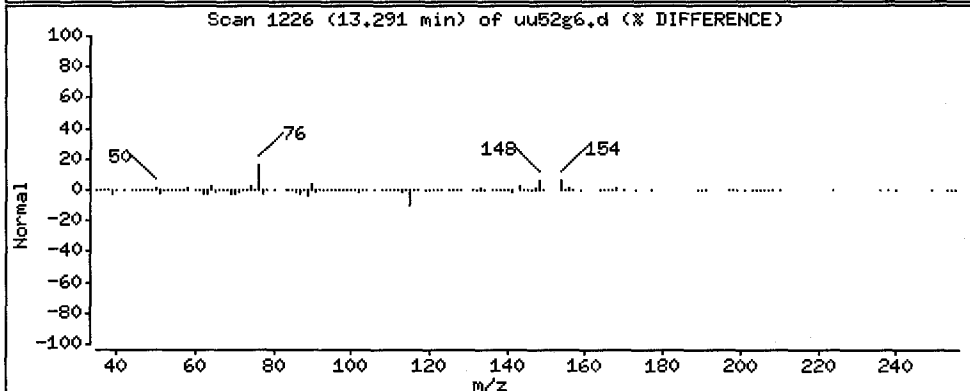
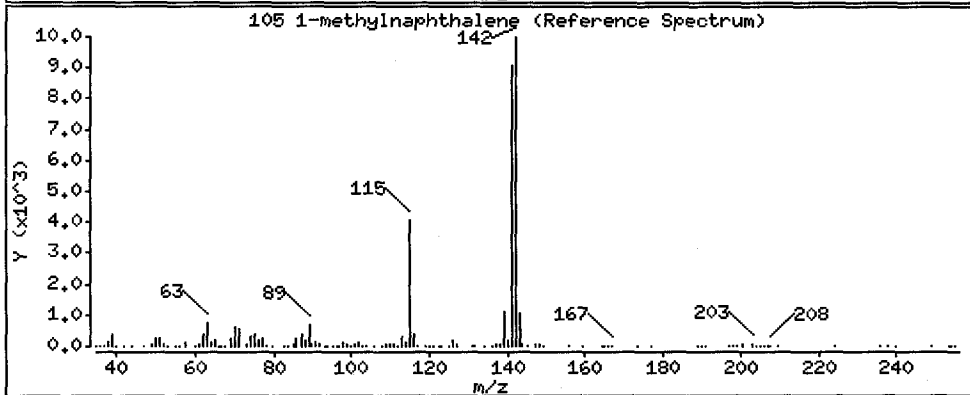
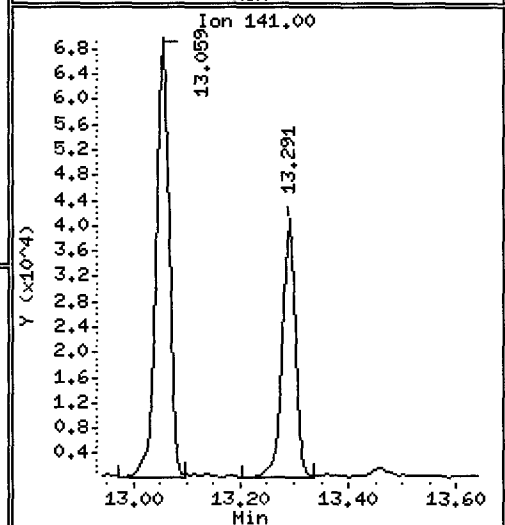
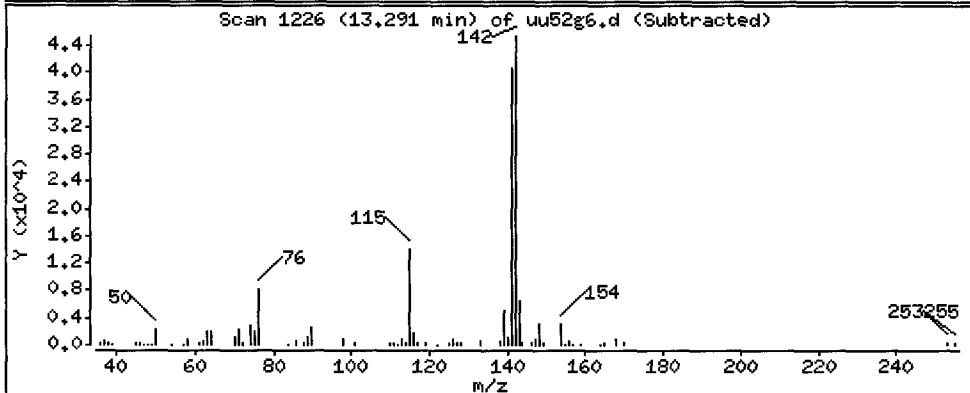
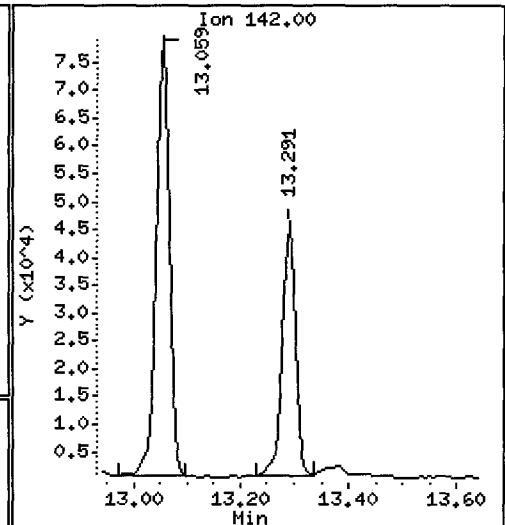
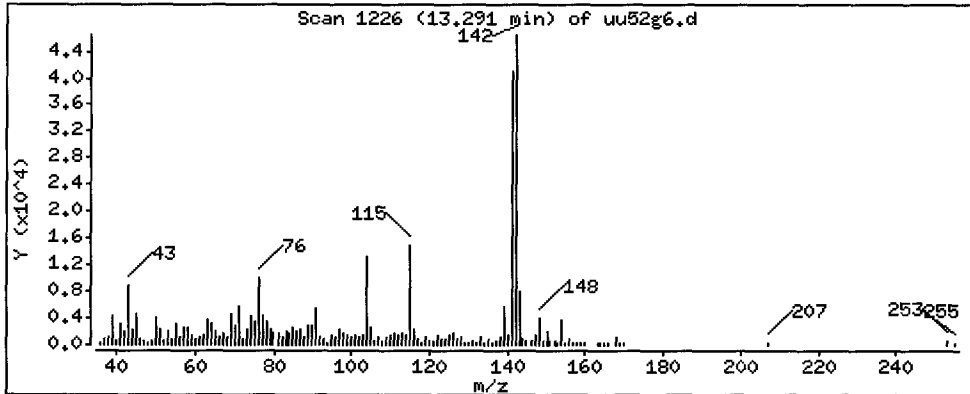
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 334.4 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

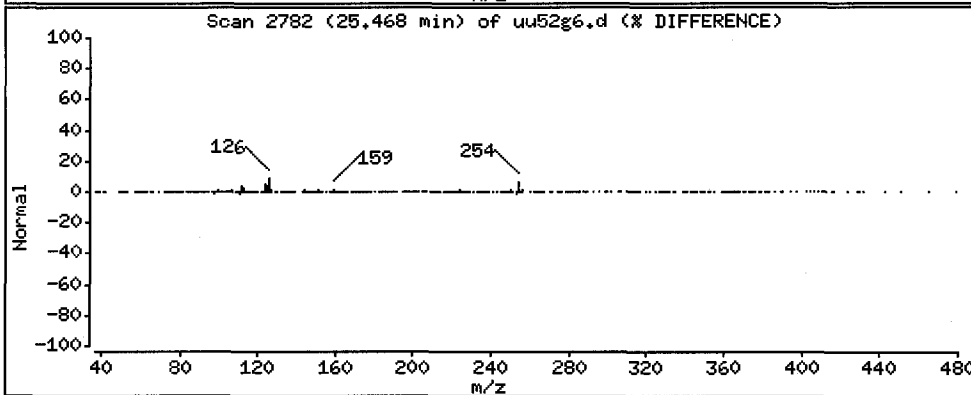
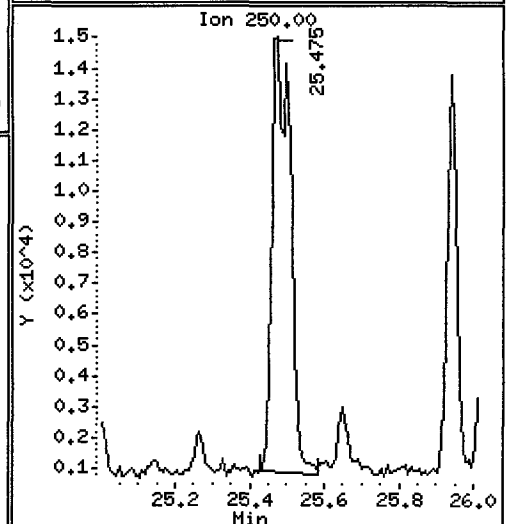
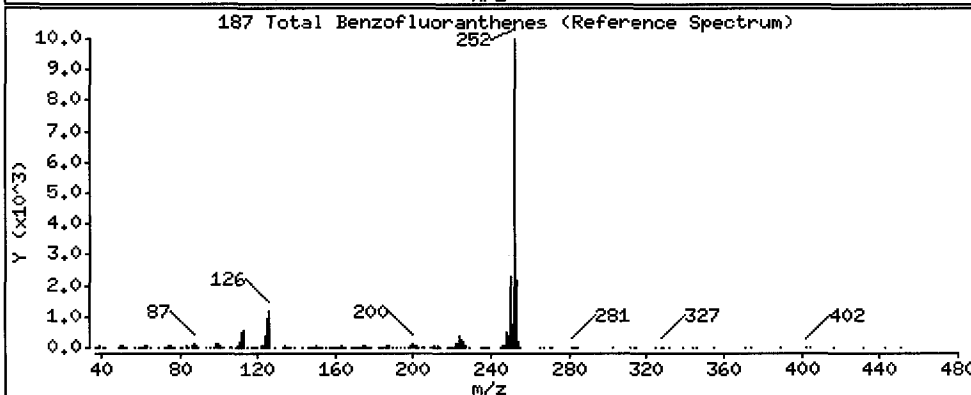
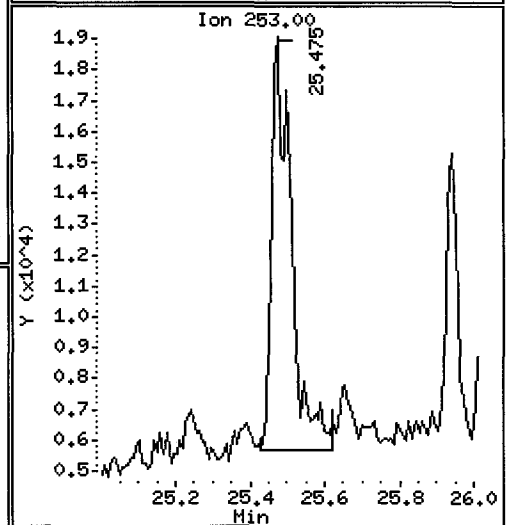
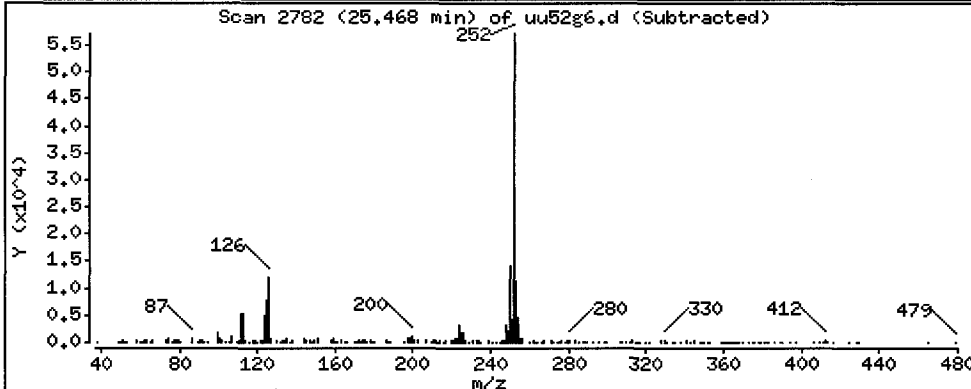
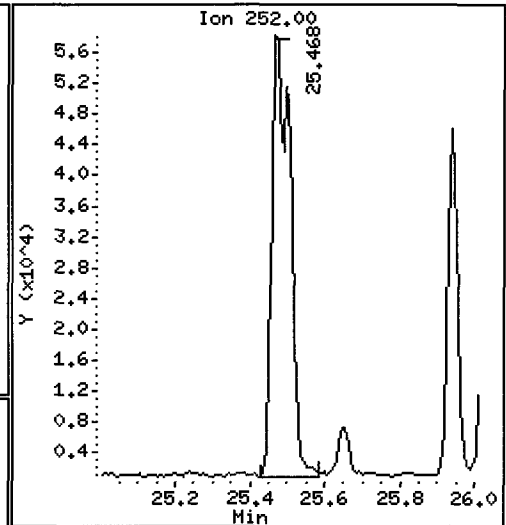
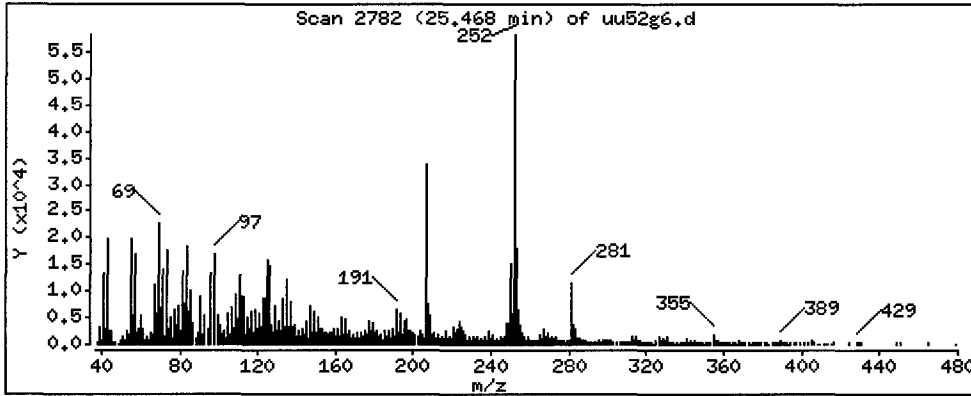
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 644.7 ug/kg



Date : 30-MAY-2012 13:04

Client ID: MS006-SS-120515

Instrument: nt10.i

Sample Info: UU52G,6

Volume Injected (uL): 1.0

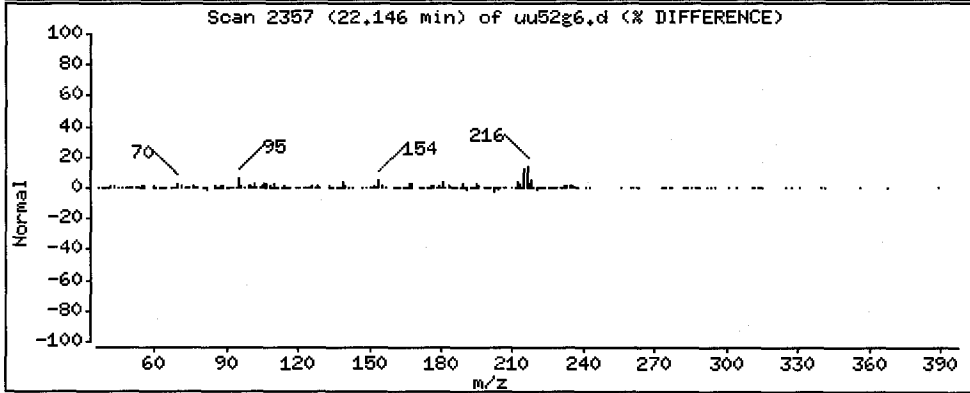
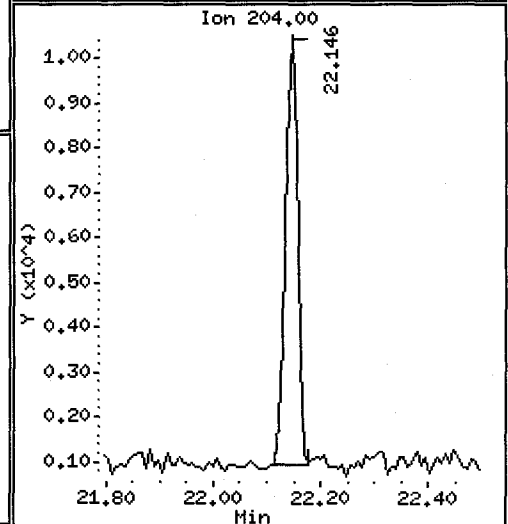
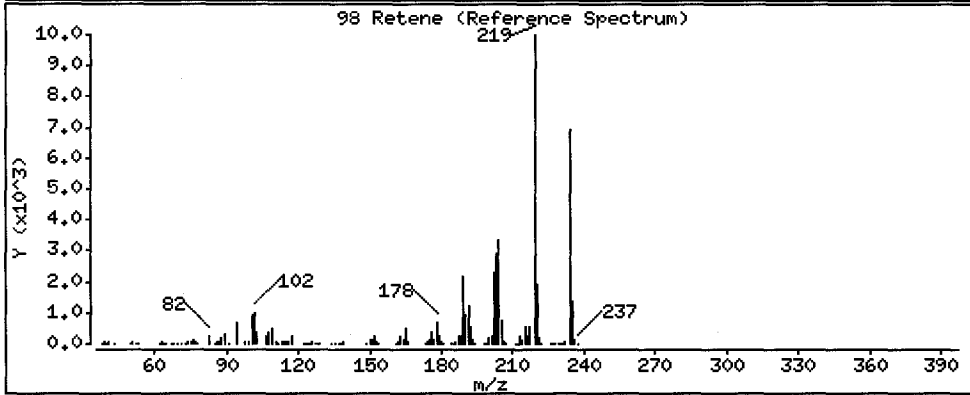
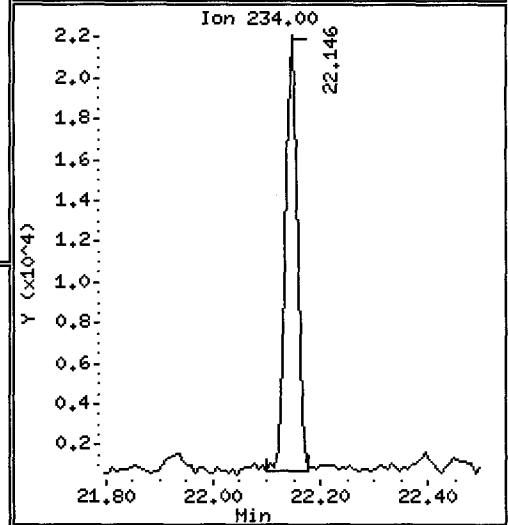
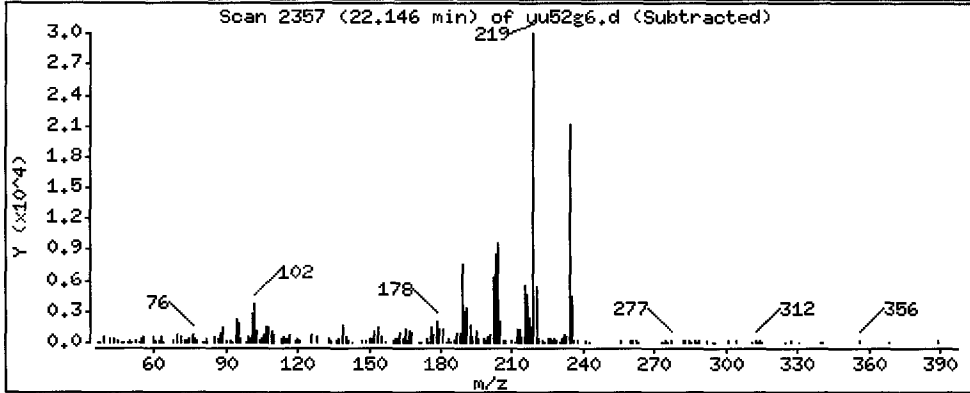
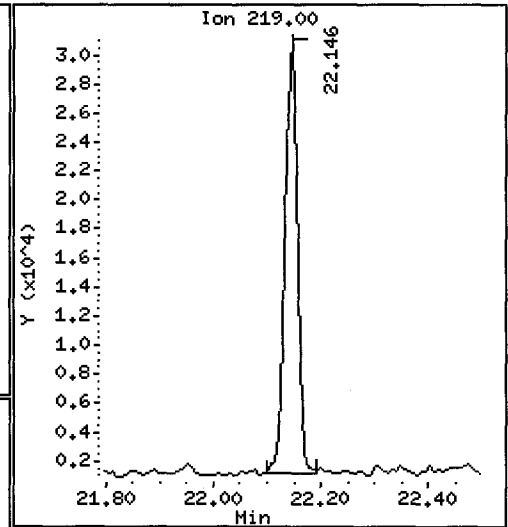
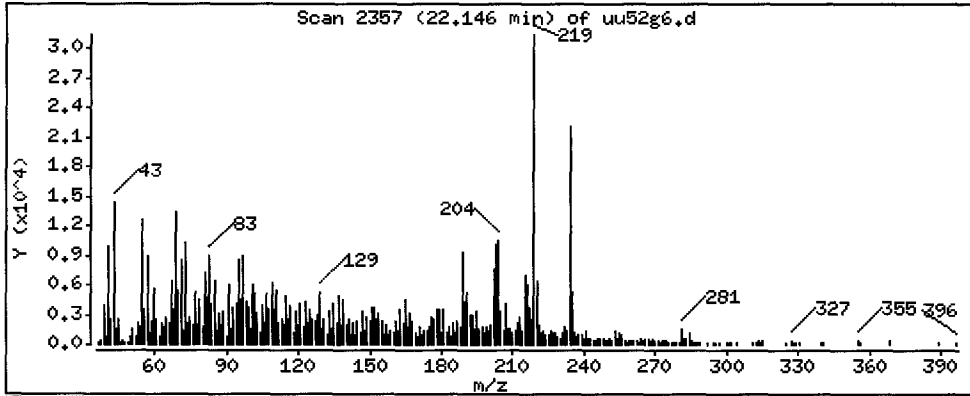
Operator: VTS/YZ

Column phase: ZB-5msi

Column diameter: 0.25

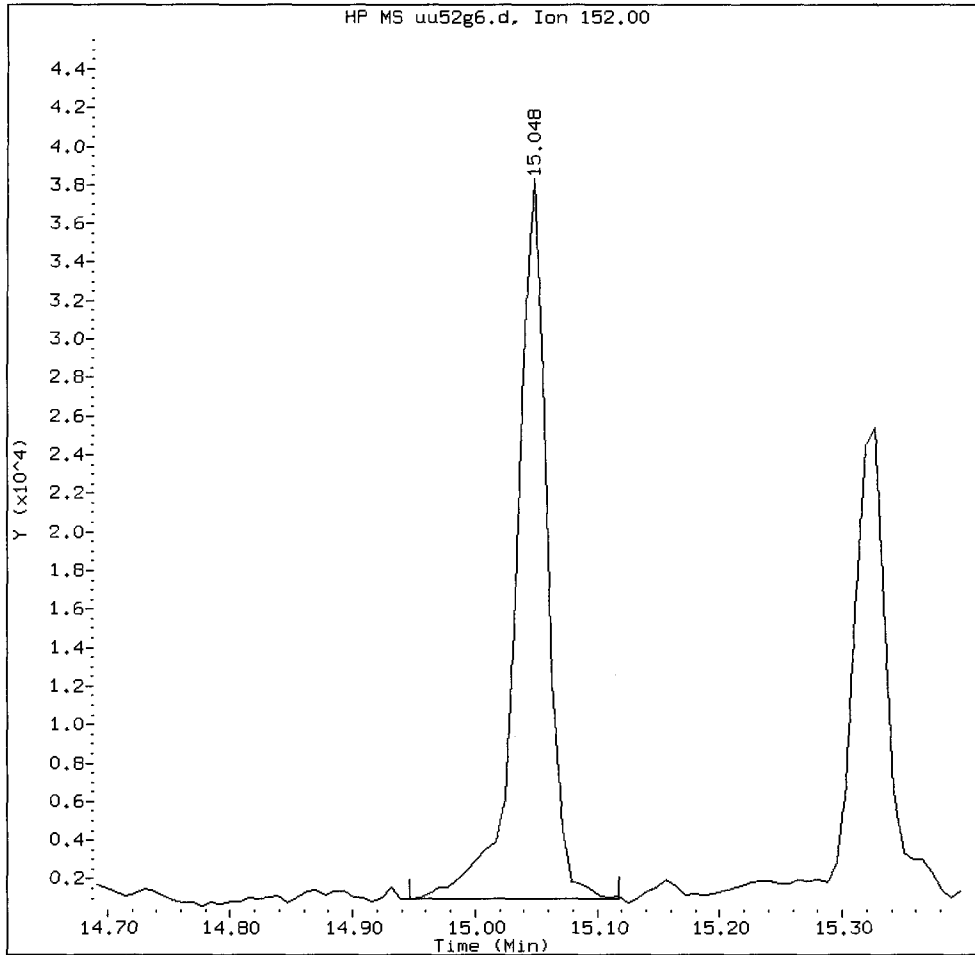
98 Retene

Concentration: 266.5 ug/kg



UU52G, /chem1/nt10.i/20120530.b/uu52g6.d

Acenaphthylene Amount: 0.36 Area: 68471



MANUAL INTEGRATION for Acenaphthylene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation ✓

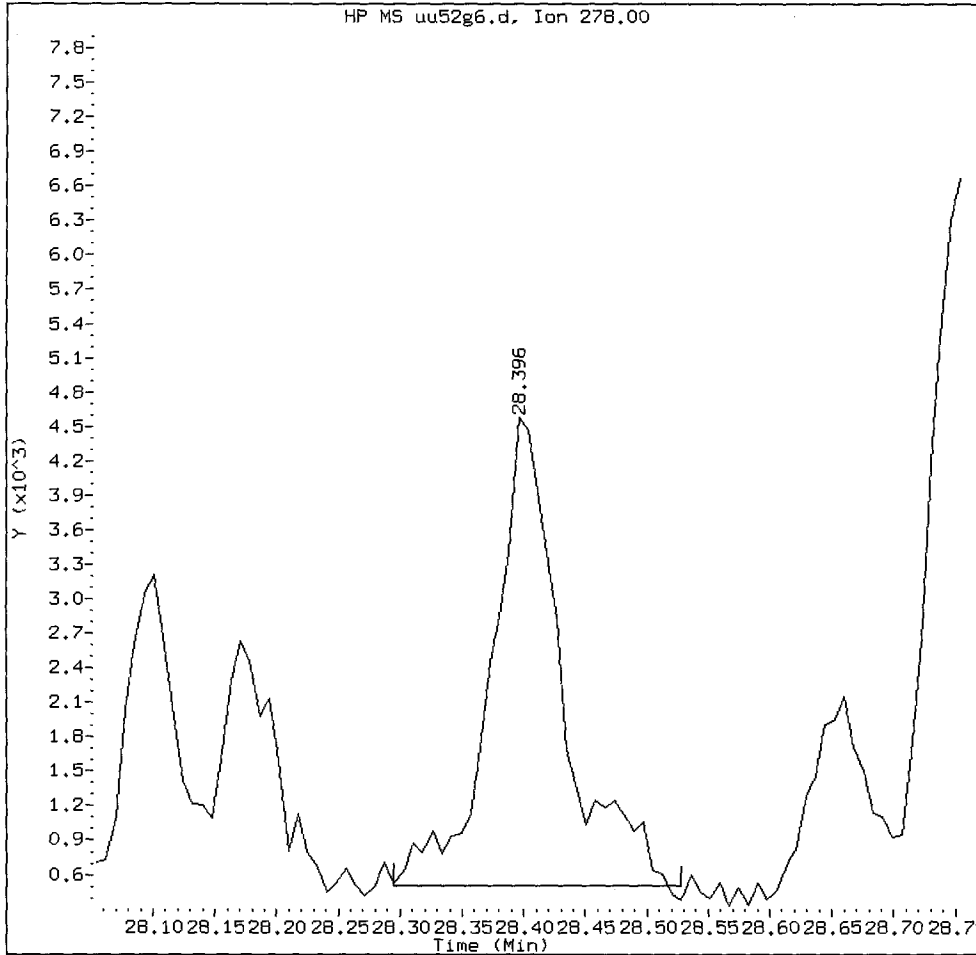
5. Other _____

Analyst: YJ

Date: 5/20/12

UU52G, /chem1/nt10.i/20120530.b/uu52g6.d

Dibenzo(a,h)anthracene Amount: 0.11 Area: 16389



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation ✓

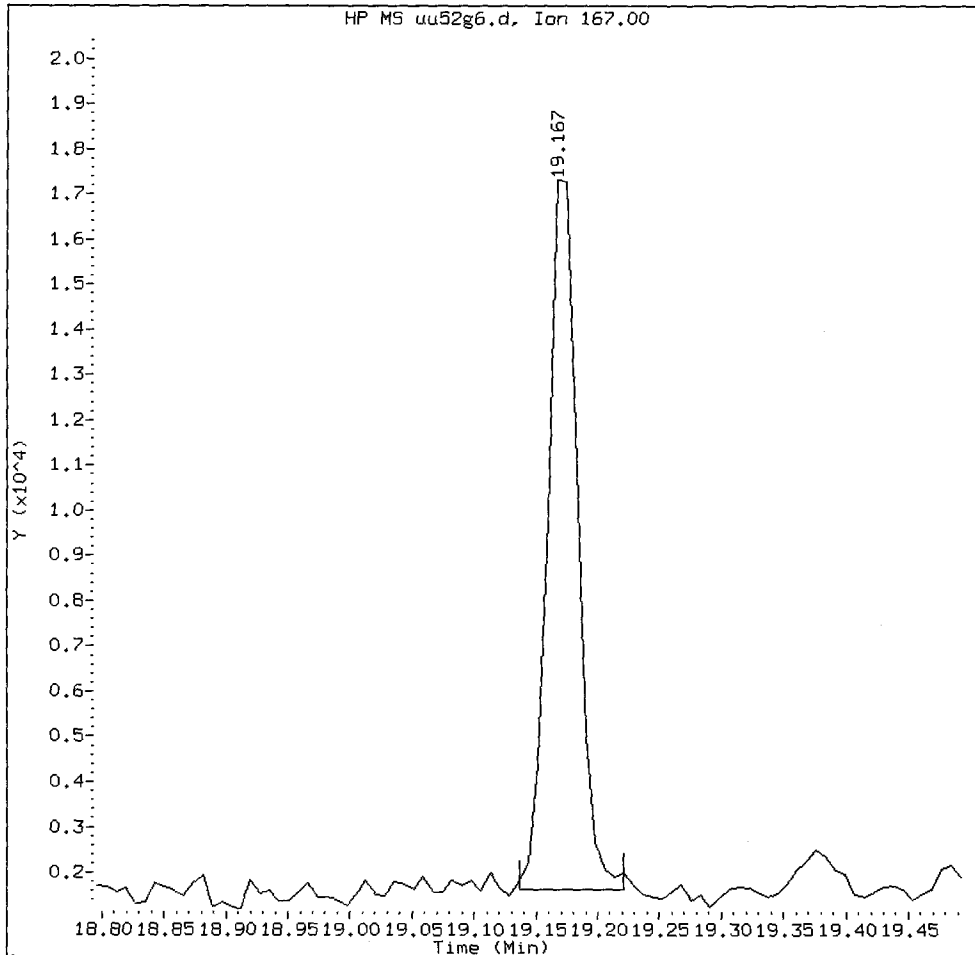
5. Other _____

Analyst: YZ

Date: 5/30/12

UU52G, /chem1/nt10.i/20120530.b/uu52g6.d

Carbazole Amount: 0.18 Area: 26899



MANUAL INTEGRATION for Carbazole

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____

Date: _____

CO-ELUTION SUMMARY FOR FILE - uu52g6.d

Lab ID: UU52G, Method: ABN.m, Instrument: nt10.i, Date: 30-MAY-2012

RT CO-ELUTION COMPOUNDS

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20120207
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: GPCVER
 Level: LOW Operator: VTS/YZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: PSDDALCS.spk Quant Type: ISTD
 Sublist File: PSDDAICAL.sub
 Method File: /chem1/nt10.i/20120207.b/ABN.m
 Misc Info:

| SPIKE COMPOUND | CONC ADDED ug/Kg | CONC RECOVERED ug/Kg | % RECOVERED | LIMITS |
|-----------------------|------------------------|----------------------------|----------------|--------|
| 3 Phenol | 2500 | 1760 | 70.42 | 30-160 |
| 4 Bis(2-Chloroethyl) | 2500 | 1658 | 66.31 | 30-160 |
| 6 2-Chlorophenol | 2500 | 1677 | 67.07 | 30-160 |
| 7 1,3-Dichlorobenzen | 2500 | 1650 | 66.01 | 30-160 |
| 9 1,4-Dichlorobenzen | 2500 | 1662 | 66.50 | 30-160 |
| 11 Benzyl alcohol | 2500 | 2561 | 102.45 | 30-160 |
| 12 1,2-Dichlorobenzen | 2500 | 1659 | 66.34 | 30-160 |
| 13 2-Methylphenol | 2500 | 1698 | 67.93 | 30-160 |
| 14 2,2'-oxybis(1-Chlo | 2500 | 1583 | 63.31 | 30-160 |
| 15 4-Methylphenol | 5000 | 3361 | 67.23 | 30-160 |
| 16 N-Nitroso-di-n-pro | 2500 | 1753 | 70.12 | 30-160 |
| 17 Hexachloroethane | 2500 | 1686 | 67.42 | 30-160 |
| 19 Nitrobenzene | 2500 | 1709 | 68.35 | 30-160 |
| 20 Isophorone | 2500 | 1780 | 71.19 | 30-160 |
| 21 2-Nitrophenol | 2500 | 1772 | 70.87 | 30-160 |
| 22 2,4-Dimethylphenol | 7500 | 4561 | 60.81 | 30-160 |
| 23 Bis(2-Chloroethoxy | 2500 | 1726 | 69.02 | 30-160 |
| 24 Benzoic acid | 13750 | 7435 | 54.07 | 30-160 |
| 25 2,4-Dichlorophenol | 7500 | 2956 | 39.41 | 30-160 |
| 26 1,2,4-Trichloroben | 2500 | 1644 | 65.74 | 30-160 |
| 28 Naphthalene | 2500 | 1752 | 70.08 | 30-160 |
| 29 4-Chloroaniline | 7500 | 5380 | 71.74 | 30-160 |
| 30 Hexachlorobutadien | 2500 | 1672 | 66.87 | 30-160 |
| 31 4-Chloro-3-methylp | 7500 | 5858 | 78.10 | 30-160 |
| 32 2-Methylnaphthalen | 2500 | 1786 | 71.42 | 30-160 |
| 33 Hexachlorocyclopen | 7500 | 4180 | 55.73 | 30-160 |
| 34 2,4,6-Trichlorophe | 7500 | 5844 | 77.92 | 30-160 |
| 35 2,4,5-Trichlorophe | 7500 | 6120 | 81.60 | 30-160 |
| 37 2-Chloronaphthalen | 2500 | 1750 | 69.99 | 30-160 |
| 38 2-Nitroaniline | 7500 | 6320 | 84.27 | 30-160 |
| 39 Dimethylphthalate | 2500 | 1718 | 68.74 | 30-160 |
| 40 Acenaphthylene | 2500 | 1785 | 71.40 | 30-160 |
| 41 2,6-Dinitrotoluene | 7500 | 5738 | 76.51 | 30-160 |

| SPIKE COMPOUND | CONC ADDED ug/Kg | CONC RECOVERED ug/Kg | % RECOVERED | LIMITS |
|-------------------------|------------------------|----------------------------|----------------|--------|
| 43 3-Nitroaniline | 7500 | 5227 | 69.69 | 30-160 |
| 44 Acenaphthene | 2500 | 1833 | 73.32 | 30-160 |
| 45 2,4-Dinitrophenol | 13750 | 9210 | 66.98 | 30-160 |
| 46 Dibenzofuran | 2500 | 1802 | 72.10 | 30-160 |
| 47 4-Nitrophenol | 7500 | 6838 | 91.17 | 30-160 |
| 48 2,4-Dinitrotoluene | 7500 | 6015 | 80.20 | 30-160 |
| 49 Fluorene | 2500 | 1797 | 71.88 | 30-160 |
| 50 Diethylphthalate | 2500 | 1964 | 78.55 | 30-160 |
| 51 4-Chlorophenyl-phe | 2500 | 1231 | 49.24 | 30-160 |
| 52 4-Nitroaniline | 7500 | 5862 | 78.16 | 30-160 |
| 53 4,6-Dinitro-2-meth | 13750 | 12160 | 88.40 | 30-160 |
| 54 N-Nitrosodiphenyla | 2500 | 1797 | 71.87 | 30-160 |
| 56 4-Bromophenyl-phen | 2500 | 1946 | 77.84 | 30-160 |
| 57 Hexachlorobenzene | 2500 | 1915 | 76.61 | 30-160 |
| 58 Pentachlorophenol | 7500 | 4943 | 65.90 | 30-160 |
| 60 Phenanthrene | 2500 | 1963 | 78.52 | 30-160 |
| 61 Anthracene | 2500 | 2016 | 80.64 | 30-160 |
| 62 Carbazole | 2500 | 2022 | 80.88 | 30-160 |
| 63 Di-n-butylphthalat | 2500 | 2101 | 84.04 | 30-160 |
| 64 Fluoranthene | 2500 | 2114 | 84.56 | 30-160 |
| 65 Pyrene | 2500 | 2063 | 82.53 | 30-160 |
| 67 Butylbenzylphthala | 2500 | 1816 | 72.65 | 30-160 |
| 68 Benzo(a)anthracene | 2500 | 1886 | 75.43 | 30-160 |
| 70 3,3'-Dichlorobenzi | 7500 | 4203 | 56.04 | 30-160 |
| 71 Chrysene | 2500 | 1948 | 77.94 | 30-160 |
| 72 bis(2-Ethylhexyl)p | 2500 | 1687 | 67.50 | 30-160 |
| 73 Di-n-octylphthalat | 2500 | 1654 | 66.14 | 30-160 |
| 74 Benzo(b)fluoranthene | 2500 | 1879 | 75.17 | 30-160 |
| 75 Benzo(k)fluoranthene | 2500 | 1886 | 75.43 | 30-160 |
| 76 Benzo(a)pyrene | 2500 | 2012 | 80.48 | 30-160 |
| 78 Indeno(1,2,3-cd)py | 2500 | 1851 | 74.03 | 30-160 |
| 79 Dibenzo(a,h)anthra | 2500 | 1882 | 75.28 | 30-160 |
| 80 Benzo(g,h,i)perylene | 2500 | 1877 | 75.07 | 30-160 |
| 91 Aniline | 7500 | 2295 | 30.59 | 30-160 |
| 111 Azobenzene (1,2-DP | 2500 | 1684 | 67.35 | 30-160 |
| 90 N-Nitrosodimethyla | 7500 | 4811 | 64.15 | 30-160 |
| 105 1-methylnaphthalene | 2500 | 1751 | 70.06 | 30-160 |
| 103 Pyridine | 5000 | 9787 | 195.74* | 30-160 |
| 187 Total Benzofluoran | 5000 | 3748 | 74.97 | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/Kg | CONC RECOVERED ug/Kg | % RECOVERED | LIMITS |
|---------------------|------------------------|----------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 3750 | 2384 | 63.57 | 30-160 |

Results obtained with enhanced integrator!

Signal 2: FID1 A,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 1.701 | BB | 0.0274 | 8386.57617 | 4793.82813 | 6.92801 |
| 2 | 1.822 | BB | 0.0269 | 8546.20215 | 5008.97949 | 7.05987 |
| 3 | 2.142 | BB | 0.0276 | 8302.71094 | 4713.16016 | 6.85873 |
| 4 | 2.697 | BV | 0.0228 | 7718.45801 | 5054.82422 | 6.37609 |
| 5 | 2.724 | VV | 0.0254 | 9934.63184 | 5985.40039 | 8.20683 |
| 6 | 2.749 | VB | 0.0271 | 1.05984e4 | 5872.40576 | 8.75516 |
| 7 | 3.467 | BB | 0.0305 | 9532.32715 | 4951.70068 | 7.87449 |
| 8 | 3.587 | BB | 0.0326 | 9510.16797 | 4707.68457 | 7.85619 |
| 9 | 4.388 | BB | 0.0418 | 1.94536e4 | 6525.24414 | 16.07032 |
| 10 | 5.024 | BB | 0.0446 | 1.45443e4 | 5363.76367 | 12.01483 |
| 11 | 5.178 | PB | 0.0369 | 5178.09131 | 2165.51538 | 4.27753 |
| 12 | 5.792 | PV | 0.0493 | 6230.93164 | 1641.23413 | 5.14727 |
| 13 | 5.868 | VB | 0.0419 | 3116.71411 | 1073.94446 | 2.57467 |

Totals : 1.21053e5 5.78577e4

Results obtained with enhanced integrator!

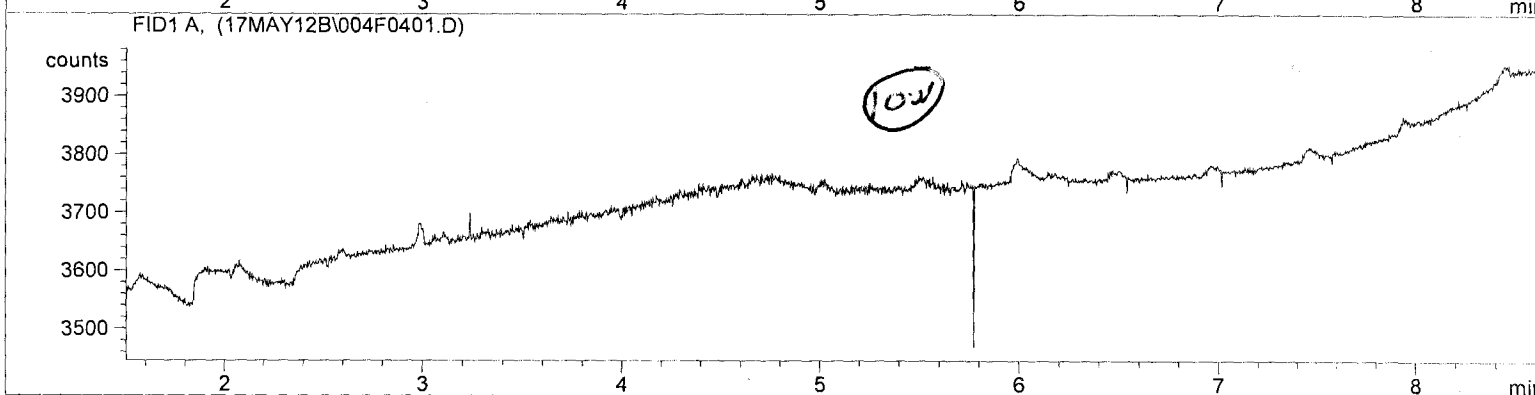
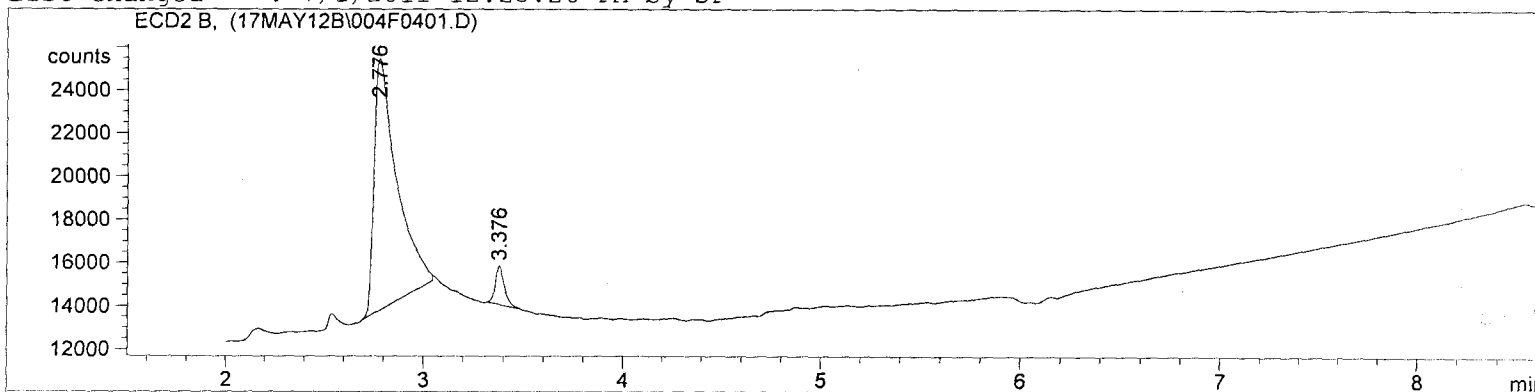
=====
*** End of Report ***

```

=====
Injection Date   : 5/17/2012 4:45:36 PM      Seq. Line   :    4
Sample Name     : UU52 A                    Location    : Vial 4
Acq. Operator  : WW                        Inj        :    1
                                           Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\17MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000

```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.776 | PB | 0.1081 | 9.32030e4 | 1.16761e4 | 94.18513 |
| 2 | 3.376 | BB | 0.0477 | 5754.23291 | 1780.95996 | 5.81487 |

```
Totals :                      9.89572e4  1.34570e4
```

Results obtained with enhanced integrator!

Signal 2: FID1 A,

```

=====
*** End of Report ***
=====

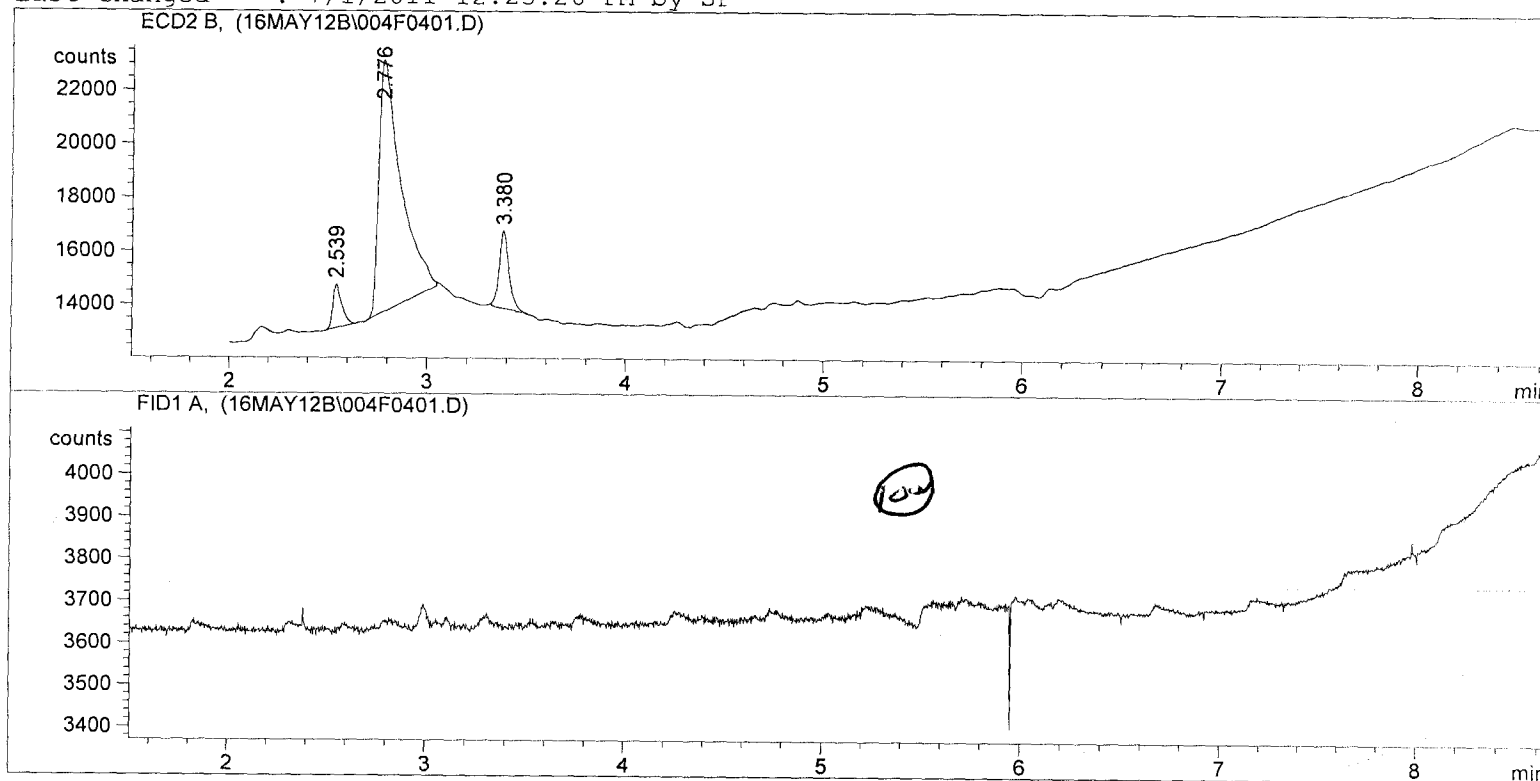
```

```

=====
Injection Date   : 5/16/2012 8:08:34 PM          Seq. Line   :    4
Sample Name     : UU52 B                          Location    : Vial 4
Acq. Operator  : AC                               Inj         :    1
                                                    Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Signal
Multiplier          :      1.0000
Dilution            :      1.0000

```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.539 | PB | 0.0455 | 5064.98047 | 1620.05688 | 5.74942 |
| 2 | 2.776 | PB | 0.1058 | 7.31606e4 | 9404.25293 | 83.04697 |
| 3 | 3.380 | BB | 0.0507 | 9869.87793 | 2897.52539 | 11.20361 |

```
Totals :                      8.80955e4  1.39218e4
```

Results obtained with enhanced integrator!

Signal 2: FID1 A,

```

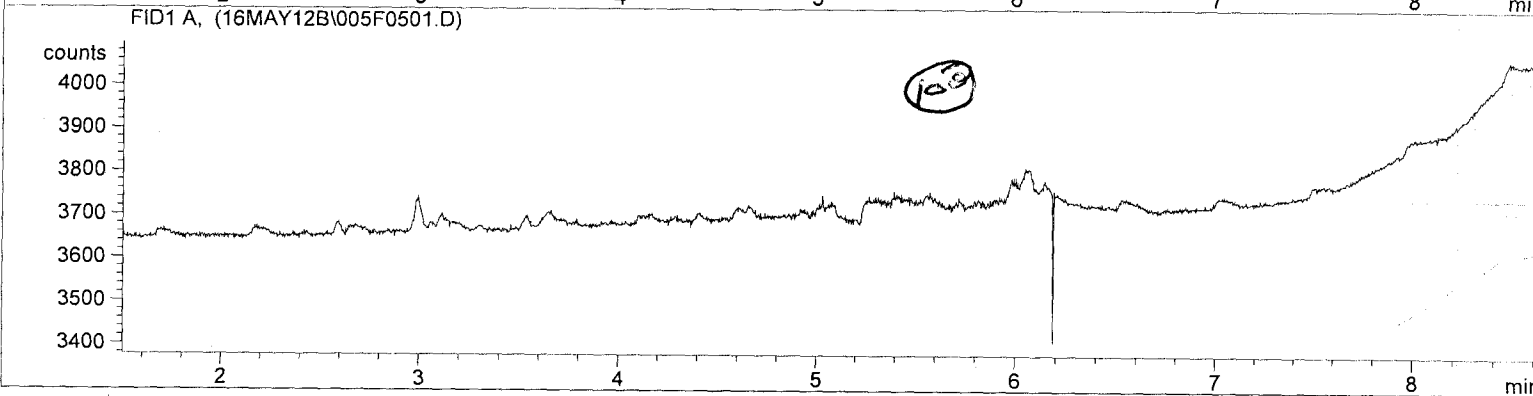
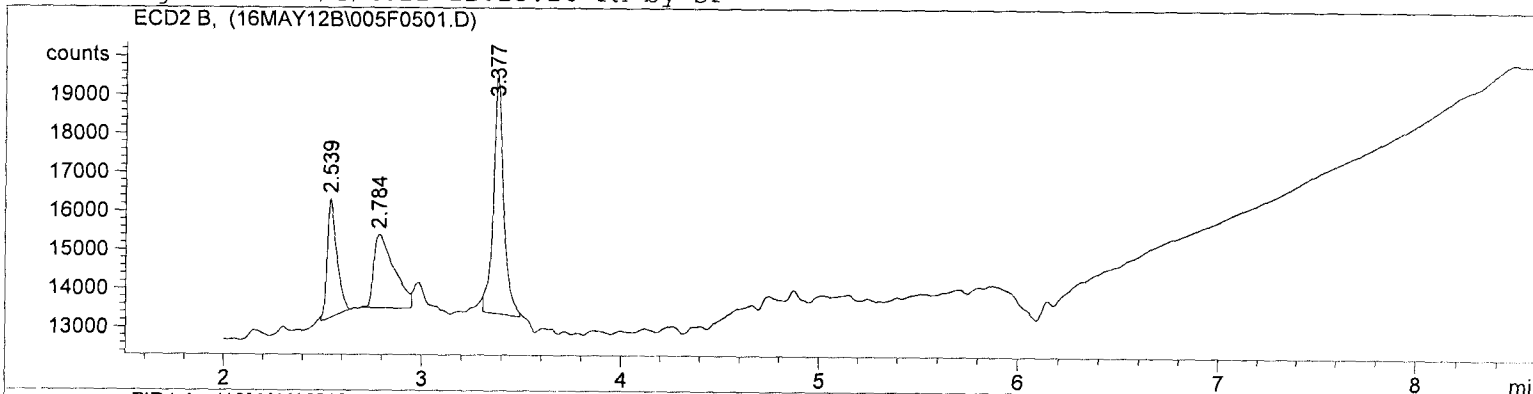
=====
*** End of Report ***
=====

```

```

=====
Injection Date   : 5/16/2012 8:21:48 PM           Seq. Line :    5
Sample Name     : UU52 C                          Location  : Vial 5
Acq. Operator   : AC                               Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
    
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
    
```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.539 | BB | 0.0481 | 1.02791e4 | 3067.37427 | 22.10699 |
| 2 | 2.784 | BB | 0.1018 | 1.38508e4 | 1906.08594 | 29.78858 |
| 3 | 3.377 | BB | 0.0523 | 2.23672e4 | 6170.35449 | 48.10443 |

Totals : 4.64971e4 1.11438e4

Results obtained with enhanced integrator!

Signal 2: FID1 A,

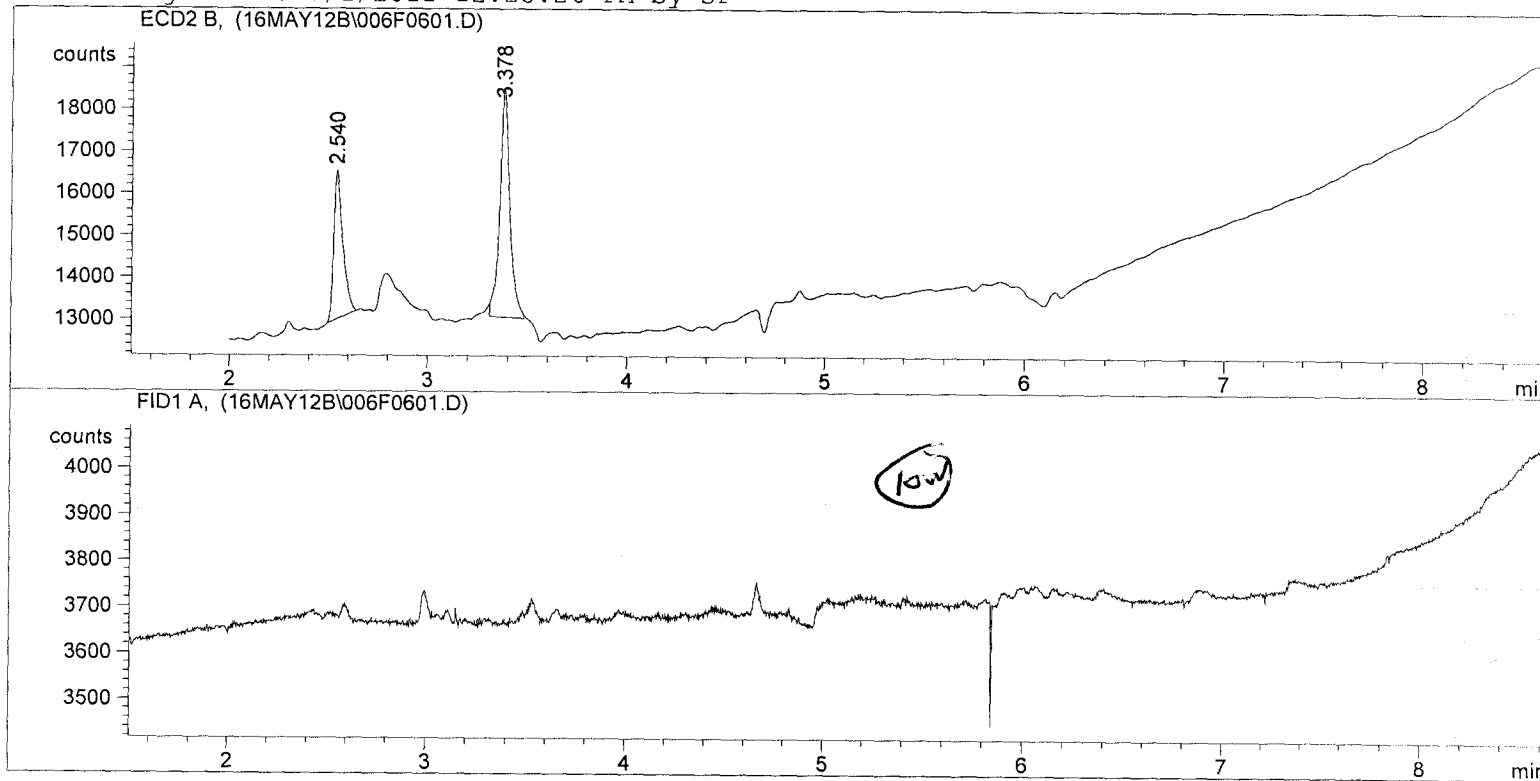
=====
 *** End of Report ***

```

=====
Injection Date   : 5/16/2012 8:35:01 PM           Seq. Line   :    6
Sample Name     : UU52 D                          Location    : Vial 6
Acq. Operator   : AC                               Inj         :    1
                                                    Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000

```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.540 | BB | 0.0450 | 1.12396e4 | 3540.40503 | 36.87132 |
| 2 | 3.378 | BB | 0.0522 | 1.92437e4 | 5444.90137 | 63.12868 |

```
Totals :                      3.04833e4  8985.30640
```

Results obtained with enhanced integrator!

Signal 2: FID1 A,

```

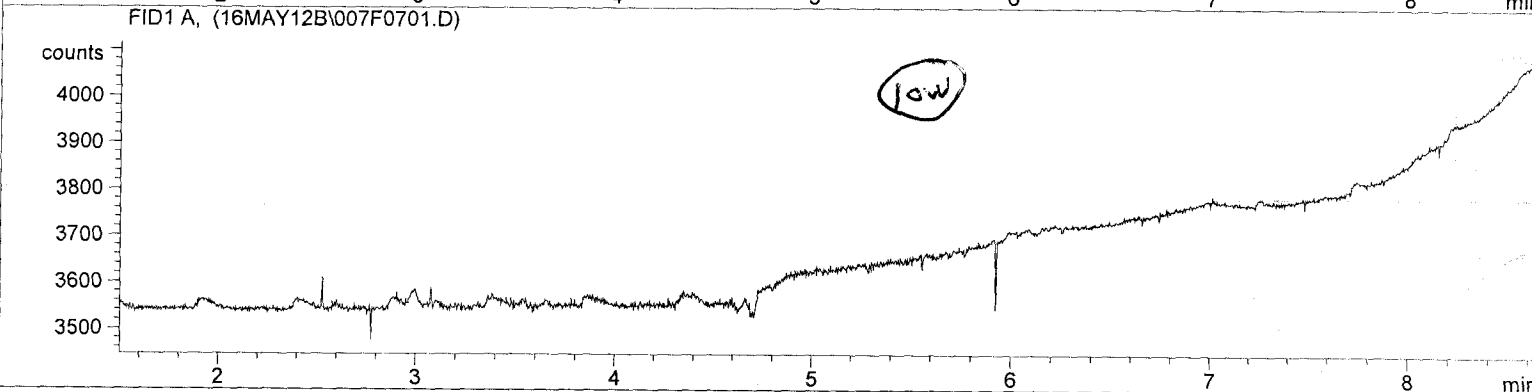
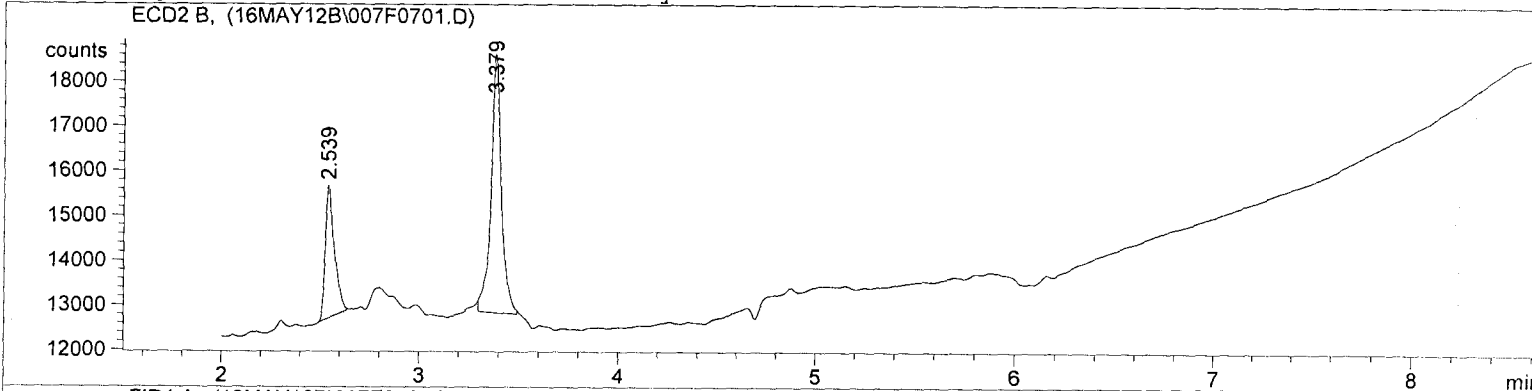
=====
*** End of Report ***
=====

```

```

=====
Injection Date   : 5/16/2012 8:48:14 PM      Seq. Line   :    7
Sample Name     : UU52 E                    Location    : Vial 7
Acq. Operator  : AC                        Inj         :    1
                                           Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
    
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
    
```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.539 | PB | 0.0457 | 9559.85547 | 2955.92041 | 31.03658 |
| 2 | 3.379 | BB | 0.0529 | 2.12420e4 | 5779.72803 | 68.96342 |

Totals : 3.08019e4 8735.64844

Results obtained with enhanced integrator!

Signal 2: FID1 A,

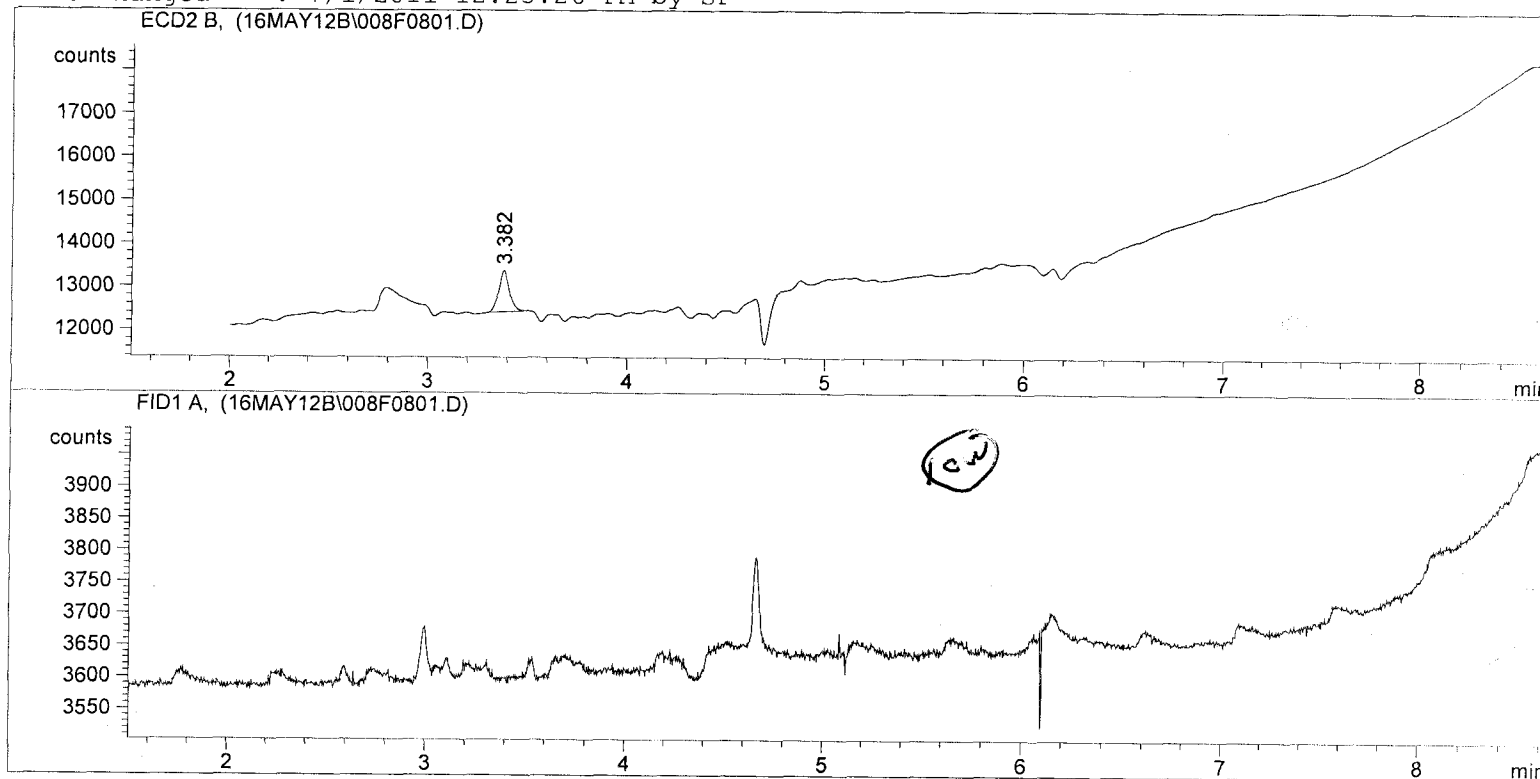
=====
 *** End of Report ***
 =====

```

=====
Injection Date   : 5/16/2012 9:01:29 PM      Seq. Line :    8
Sample Name     : UU52 F                    Location  : Vial 8
Acq. Operator  : AC                        Inj      :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
=====

```



```

=====
Area Percent Report
=====

```

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000

```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|---------|
| 1 | 3.382 | BB | 0.0517 | 3502.42529 | 957.90704 | 1.000e2 |

```
Totals :                3502.42529  957.90704
```

Results obtained with enhanced integrator!

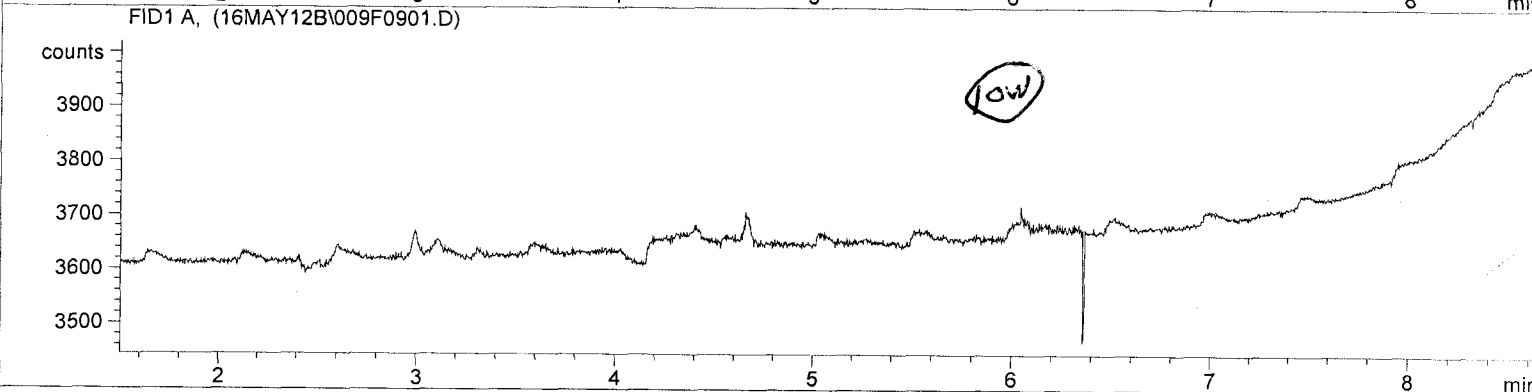
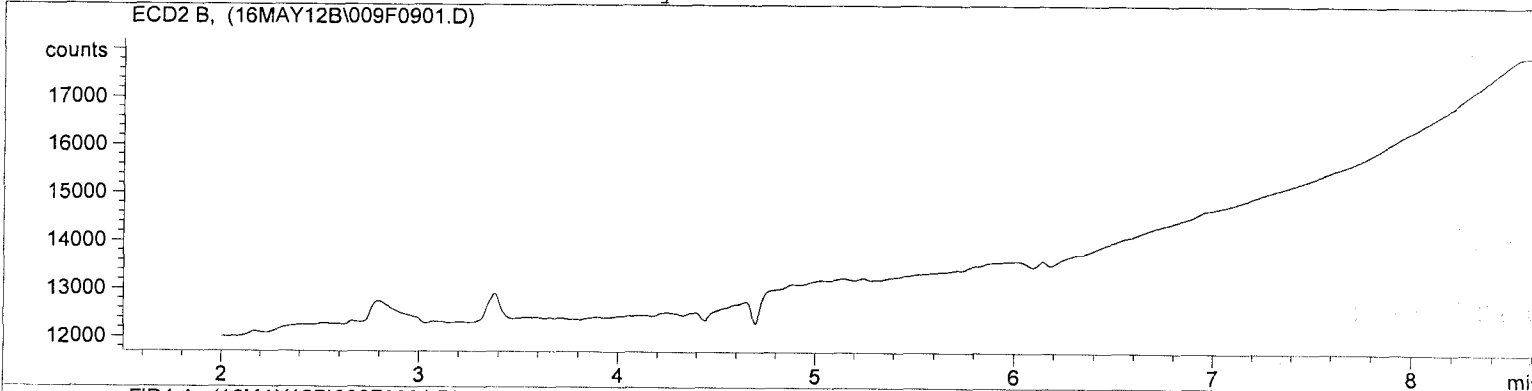
Signal 2: FID1 A,

```

=====
*** End of Report ***
=====

```

=====
Injection Date : 5/16/2012 9:14:41 PM Seq. Line : 9
Sample Name : UU52 G Location : Vial 9
Acq. Operator : AC Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/1/2011 12:25:26 PM by SP
=====



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

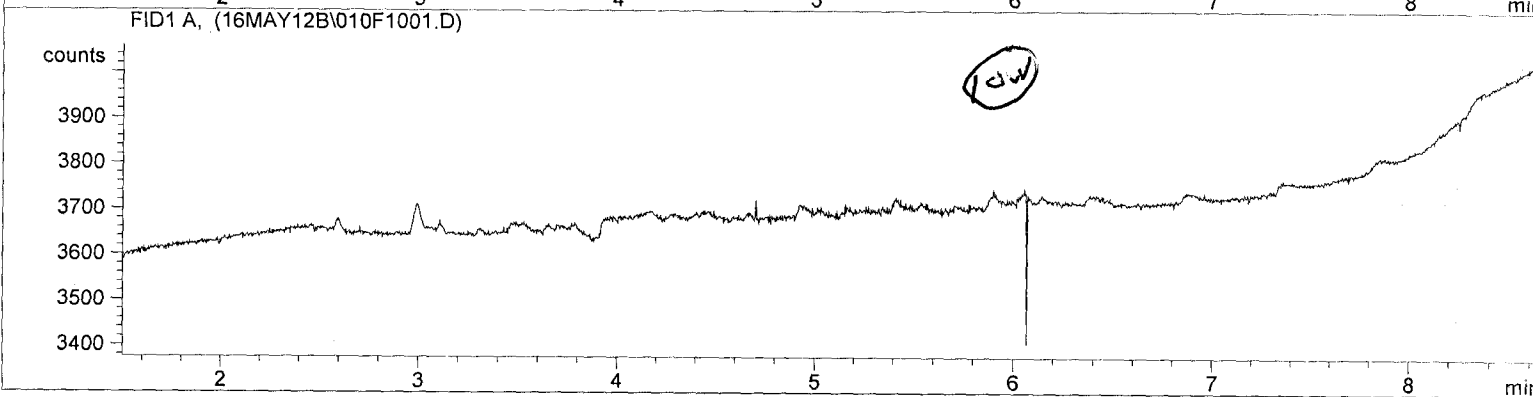
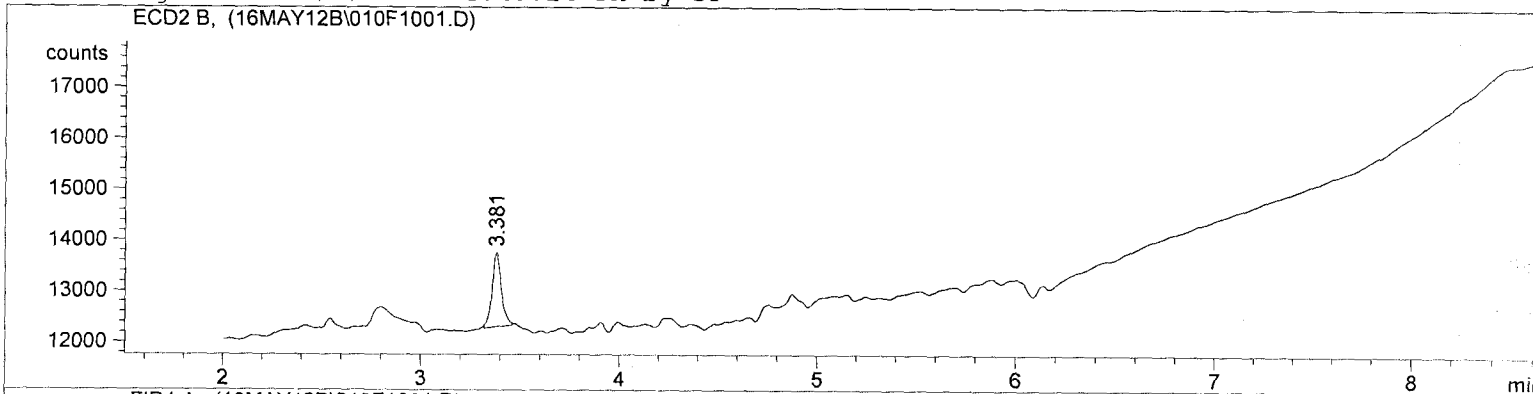
No peaks found

=====
*** End of Report ***
=====


```

=====
Injection Date   : 5/16/2012 9:27:53 PM      Seq. Line : 10
Sample Name     : UU52 H                      Location  : Vial 10
Acq. Operator  : AC                          Inj       : 1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
    
```



=====
 Area Percent Report
 =====

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|---------|
| 1 | 3.381 | BB | 0.0478 | 4729.76709 | 1461.35803 | 1.000e2 |

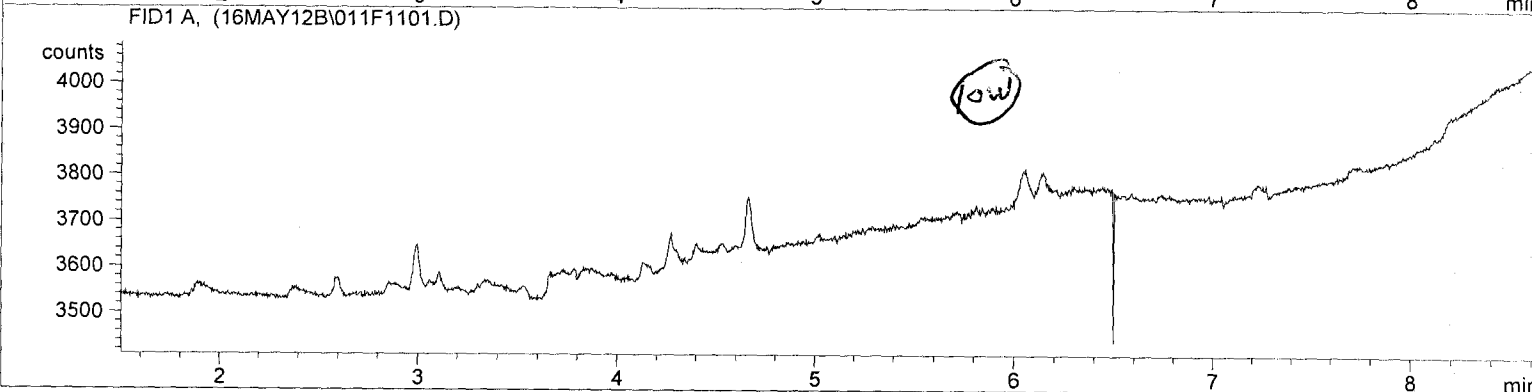
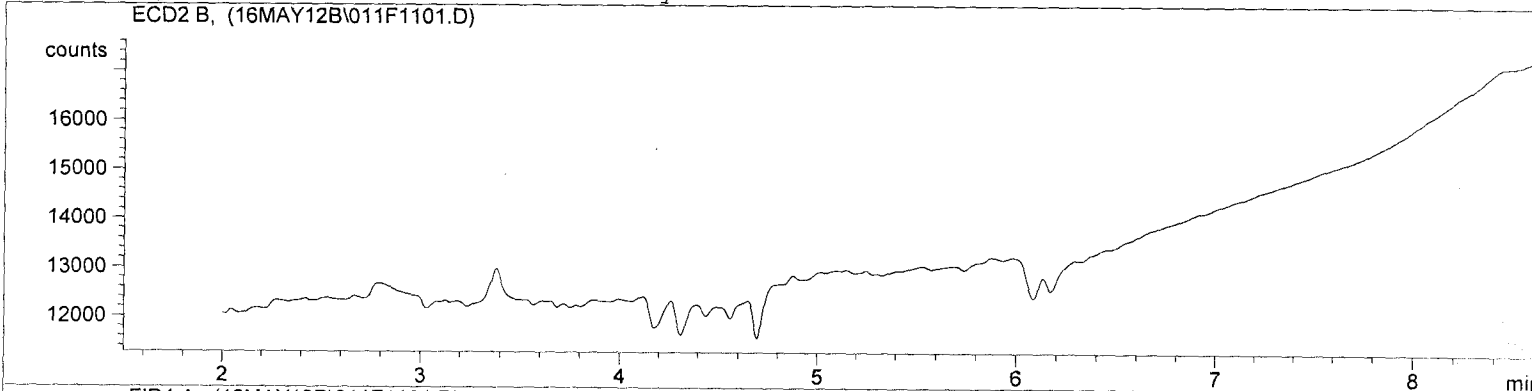
Totals : 4729.76709 1461.35803

Results obtained with enhanced integrator!

Signal 2: FID1 A,

=====
 *** End of Report ***

=====
Injection Date : 5/16/2012 9:41:06 PM Seq. Line : 11
Sample Name : UU52 I Location : Vial 11
Acq. Operator : AC Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/1/2011 12:25:26 PM by SP
=====



=====
Area Percent Report
=====

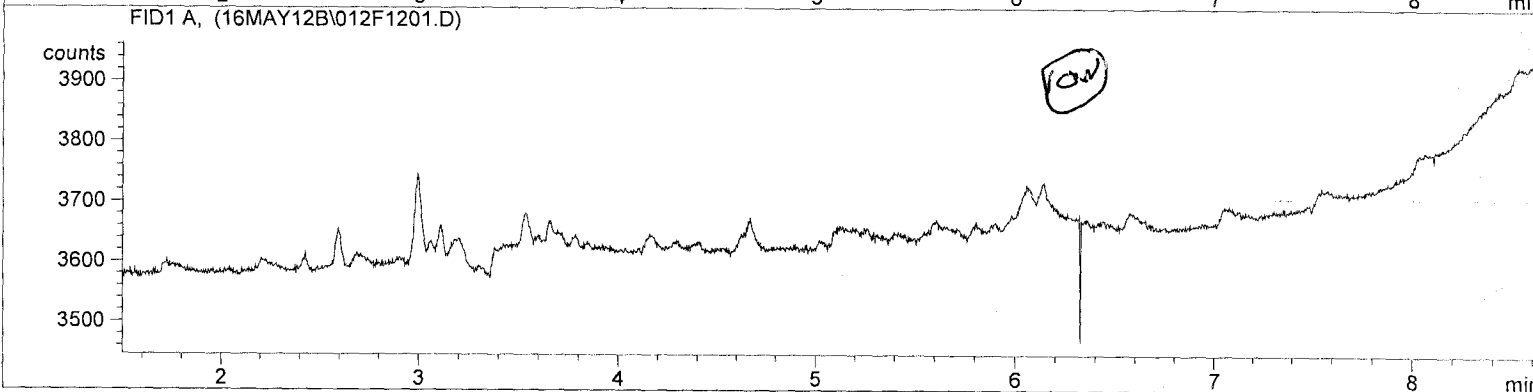
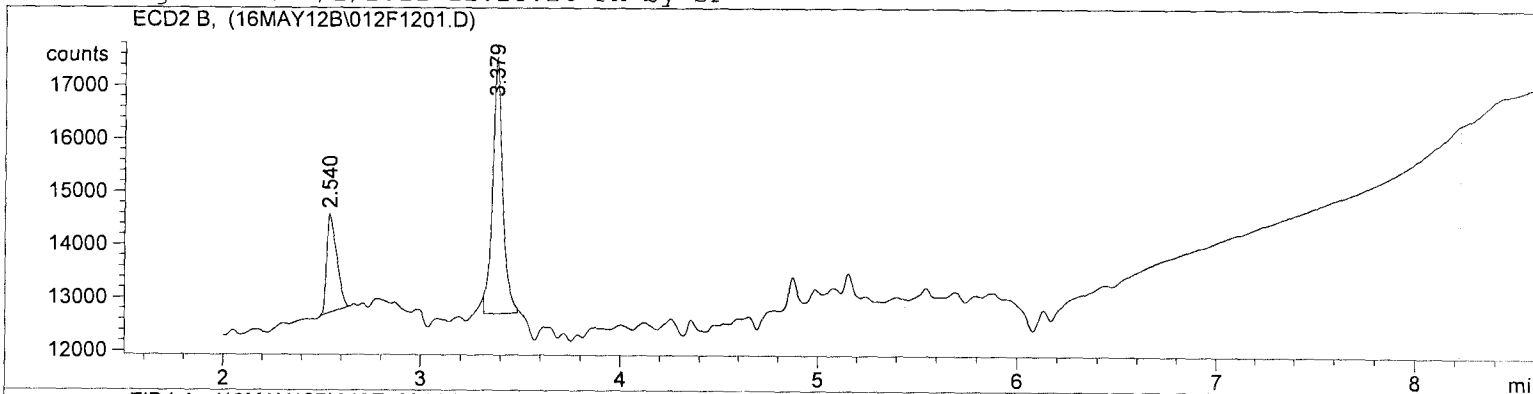
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

No peaks found

=====
*** End of Report ***
=====

```

=====
Injection Date   : 5/16/2012 9:54:23 PM      Seq. Line   : 12
Sample Name     : UU52 J                    Location    : Vial 12
Acq. Operator   : AC                       Inj         : 1
                                           Inj Volume  : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\16MAY12B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/1/2011 12:25:26 PM by SP
    
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
    
```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.540 | PP | 0.0494 | 6603.12891 | 1861.72583 | 28.09105 |
| 2 | 3.379 | BB | 0.0508 | 1.69030e4 | 4833.55859 | 71.90895 |

Totals : 2.35062e4 6695.28442

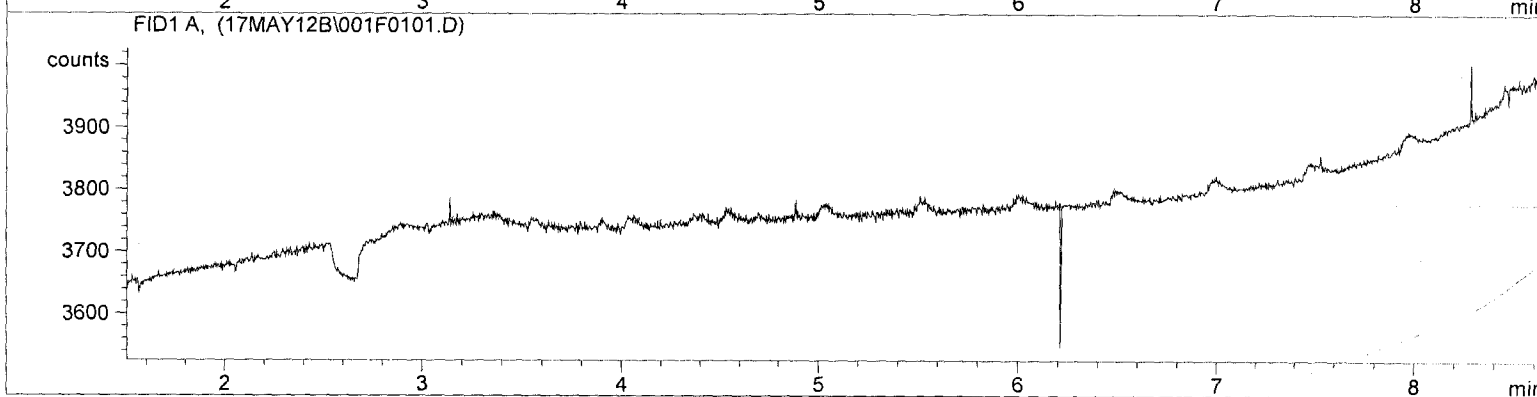
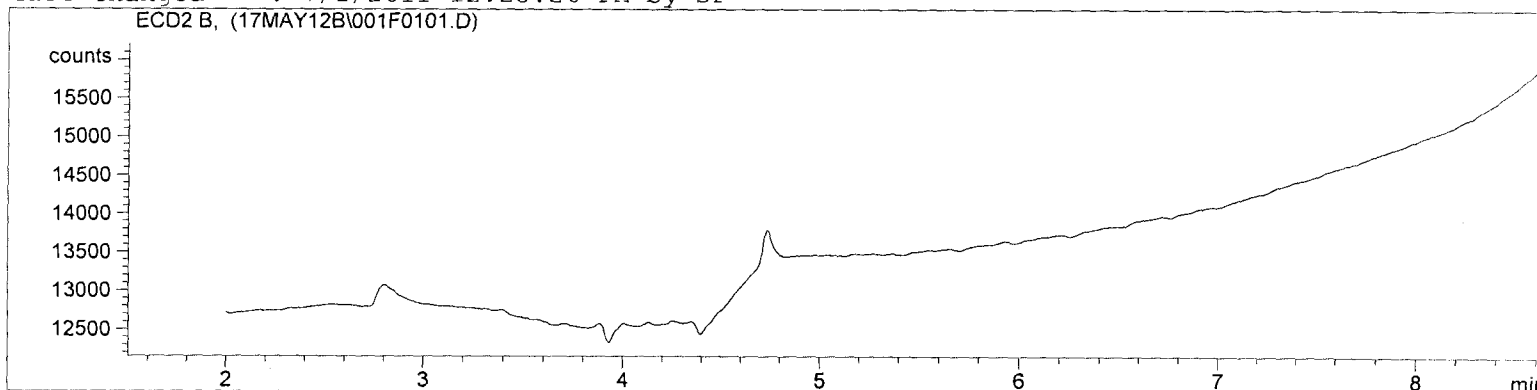
Results obtained with enhanced integrator!

Signal 2: FID1 A,

=====
 *** End of Report ***

```
=====
Injection Date   : 5/17/2012 4:05:54 PM      Seq. Line :    1
Sample Name      : DCM RINSE                  Location  : Vial 1
Acq. Operator    : WW                        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File    : C:\HPCHEM\1\SEQUENCE\17MAY12B.S
Method           : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed     : 7/1/2011 12:25:26 PM by SP
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
```

No peaks found

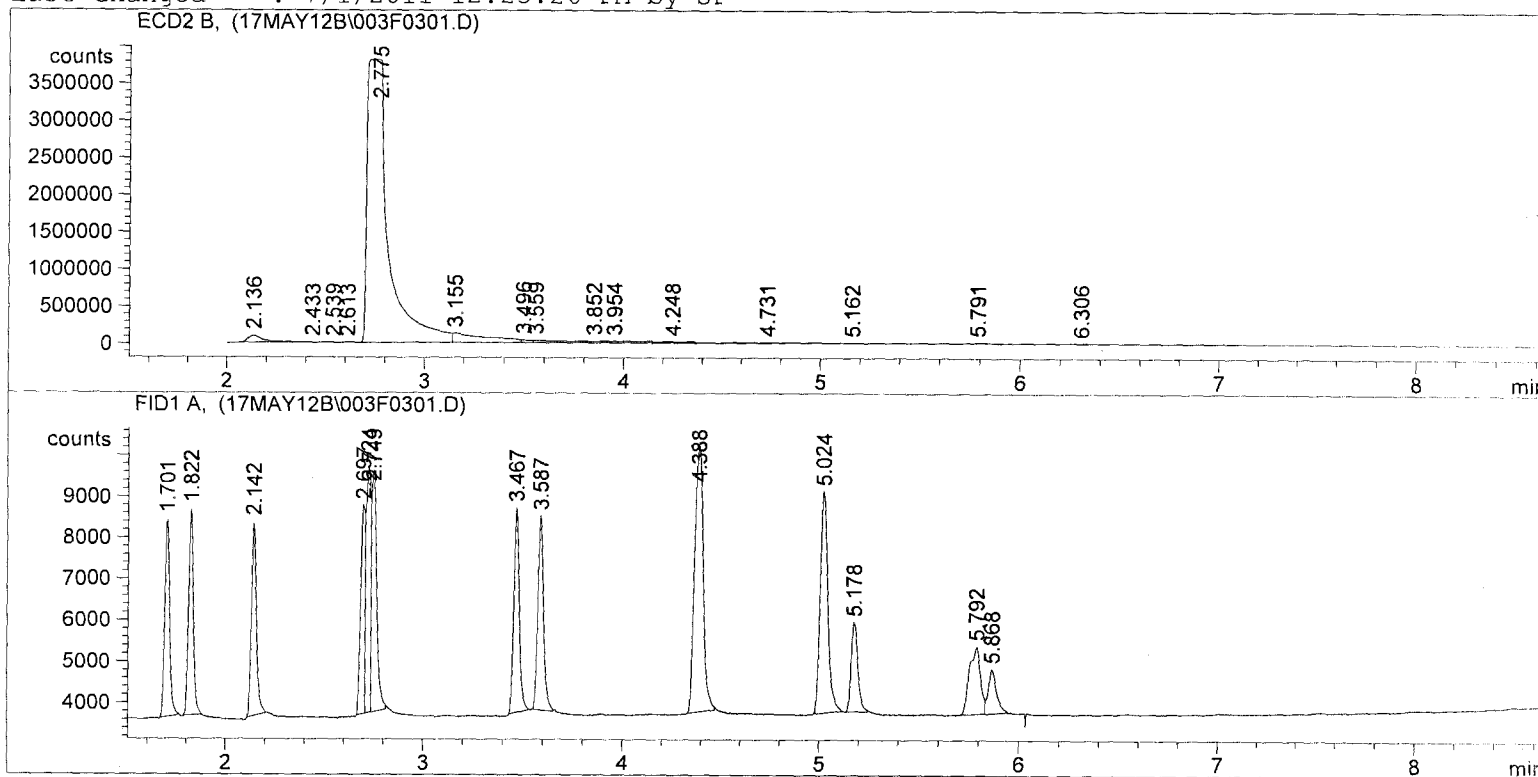
```
=====
*** End of Report ***
=====
```

```

=====
Injection Date   : 5/17/2012 4:32:21 PM           Seq. Line :    3
Sample Name     : PNA STD 10PPM                 Location  : Vial 3
Acq. Operator  : WW                               Inj      :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\17MAY12B.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/1/2011 12:25:26 PM by SP
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By      :      Signal
Multiplier    :      1.0000
Dilution      :      1.0000

```

Signal 1: ECD2 B,

| Peak # | RetTime [min] | Type | Width [min] | Area counts*s | Height [counts] | Area % |
|--------|---------------|------|-------------|---------------|-----------------|----------|
| 1 | 2.136 | PV | 0.0831 | 5.69628e5 | 9.76138e4 | 1.74465 |
| 2 | 2.433 | VV | 0.0644 | 2.98273e4 | 6394.37695 | 0.09135 |
| 3 | 2.539 | VV | 0.0647 | 3.89932e4 | 8476.16211 | 0.11943 |
| 4 | 2.613 | VV | 0.0434 | 1.62080e4 | 5504.79980 | 0.04964 |
| 5 | 2.775 | VV | 0.1119 | 2.87043e7 | 3.81072e6 | 87.91517 |
| 6 | 3.155 | VV | 0.1554 | 1.62254e6 | 1.28421e5 | 4.96951 |
| 7 | 3.496 | VV | 0.0446 | 1.27109e5 | 3.84045e4 | 0.38931 |
| 8 | 3.559 | VV | 0.0873 | 2.12977e5 | 3.25573e4 | 0.65230 |
| 9 | 3.852 | VV | 0.1767 | 3.76702e5 | 2.52997e4 | 1.15376 |
| 10 | 3.954 | VV | 0.1758 | 3.67395e5 | 2.58456e4 | 1.12525 |
| 11 | 4.248 | VV | 0.1438 | 2.36493e5 | 2.01746e4 | 0.72433 |
| 12 | 4.731 | VV | 0.3548 | 2.79479e5 | 9511.43652 | 0.85598 |
| 13 | 5.162 | VP | 0.0559 | 7787.46973 | 1981.50745 | 0.02385 |
| 14 | 5.791 | BP | 0.0579 | 3.90318e4 | 9922.42188 | 0.11955 |
| 15 | 6.306 | BB | 0.0557 | 2.15220e4 | 5618.81152 | 0.06592 |

```
Totals :                      3.26500e7  4.22645e6
```

UU52 - Ramp data (Samples A-E)
Rim 1: 2 at 5/23/12

MARS

CEM

05/23/2012 09:15
ML

MARS #01

REAL TIME DATA

FILE: TPH1200 (24 vessels)

| <u>TIME</u> | <u>PRESSURE</u> | <u>TEMPERATURE</u> |
|-------------|-----------------|--------------------|
| 0:00:00 | 0000 PSI | 077 |
| 0:01:01 | 0000 PSI | 077 |
| 0:02:01 | 0000 PSI | 081 |
| 0:03:01 | 0000 PSI | 084 |
| 0:04:01 | 0000 PSI | 086 |
| 0:05:01 | 0000 PSI | 087 |
| 0:06:01 | 0000 PSI | 090 |
| 0:07:01 | 0000 PSI | 092 |
| 0:08:01 | 0000 PSI | 102 |
| 0:09:01 | 0000 PSI | 104 |
| 0:10:01 | 0000 PSI | 109 |
| 0:11:01 | 0000 PSI | 114 |
| 0:12:01 | 0000 PSI | 107 |
| 0:13:01 | 0000 PSI | 106 |
| 0:14:01 | 0000 PSI | 112 |
| 0:15:01 | 0000 PSI | 112 |
| 0:16:01 | 0000 PSI | 106 |
| 0:17:01 | 0000 PSI | 109 |
| 0:18:01 | 0000 PSI | 110 |
| 0:19:01 | 0000 PSI | 111 |
| 0:20:01 | 0000 PSI | 114 |

UUS2 - Bam psd da (samples A-E)

Run 2:2

MARS

CEM

05/23/2012

10:52

MARSH #1

M

REAL TIME DATA

FILE (TPH1200)

(240000000)

| <u>TIME</u> | <u>PRESSURE</u> | <u>TEMPERATURE</u> |
|-------------|-----------------|--------------------|
| 0:00:00 | 0000 PSI | 068 |
| 0:01:00 | 0000 PSI | 073 |
| 0:02:00 | 0000 PSI | 079 |
| 0:03:00 | 0000 PSI | 087 |
| 0:04:00 | 0000 PSI | 090 |
| 0:05:00 | 0000 PSI | 097 |
| 0:06:00 | 0000 PSI | 100 |
| 0:07:00 | 0000 PSI | 108 |
| 0:08:00 | 0000 PSI | 106 |
| 0:09:00 | 0000 PSI | 112 |
| 0:10:00 | 0000 PSI | 111 |
| 0:11:00 | 0000 PSI | 113 |
| 0:12:00 | 0000 PSI | 109 |
| 0:13:00 | 0000 PSI | 104 |
| 0:14:00 | 0000 PSI | 110 |
| 0:15:00 | 0000 PSI | 114 |
| 0:16:00 | 0000 PSI | 106 |
| 0:17:00 | 0000 PSI | 115 |
| 0:18:00 | 0000 PSI | 112 |
| 0:19:00 | 0000 PSI | 107 |
| 0:20:00 | 0000 PSI | 115 |

UU52 - Ban Padda (Samples ^{05/23/12} G1 - J)
Rim 1:2

MARS

CEM

05/23/2012

07:01

MARK #2

REAL TIME DATA

FILE: 1200W

(2 sensors)

| TIME | PRESSURE | TEMPERATURE |
|---------|----------|-------------|
| 0:00:00 | 0000 PSI | 065 |
| 0:01:01 | 0000 PSI | 067 |
| 0:02:01 | 0000 PSI | 071 |
| 0:03:01 | 0000 PSI | 073 |
| 0:04:01 | 0000 PSI | 079 |
| 0:05:01 | 0000 PSI | 081 |
| 0:06:01 | 0000 PSI | 084 |
| 0:07:01 | 0000 PSI | 087 |
| 0:08:01 | 0000 PSI | 092 |
| 0:09:01 | 0000 PSI | 094 |
| 0:10:01 | 0000 PSI | 095 |
| 0:11:01 | 0000 PSI | 096 |
| 0:12:01 | 0000 PSI | 096 |
| 0:13:01 | 0000 PSI | 093 |
| 0:14:01 | 0000 PSI | 097 |
| 0:15:01 | 0000 PSI | 099 |
| 0:16:01 | 0000 PSI | 103 |
| 0:17:01 | 0000 PSI | 100 |
| 0:18:01 | 0000 PSI | 103 |
| 0:19:01 | 0000 PSI | 105 |
| 0:20:01 | 0000 PSI | 106 |

UU52 - Ban p... (F-J)
Rm 2:2

MARS

CEM

05/23/2012

09:03

MAY SH#2

REAL TIME DATA

FILE: 1200W (2 vessels)

| <u>TIME</u> | <u>PRESSURE</u> | <u>TEMPERATURE</u> |
|-------------|-----------------|--------------------|
| 0:00:00 | 0000 PSI | 079 |
| 0:01:01 | 0000 PSI | 082 |
| 0:02:01 | 0000 PSI | 087 |
| 0:03:01 | 0000 PSI | 092 |
| 0:04:01 | 0000 PSI | 094 |
| 0:05:01 | 0000 PSI | 098 |
| 0:06:01 | 0000 PSI | 098 |
| 0:07:01 | 0000 PSI | 097 |
| 0:08:01 | 0000 PSI | 103 |
| 0:09:01 | 0000 PSI | 102 |
| 0:10:01 | 0000 PSI | 103 |
| 0:11:01 | 0000 PSI | 105 |
| 0:12:01 | 0000 PSI | 111 |
| 0:13:01 | 0000 PSI | 113 |
| 0:14:01 | 0000 PSI | 115 |
| 0:15:01 | 0000 PSI | 108 |
| 0:16:01 | 0000 PSI | 110 |
| 0:17:01 | 0000 PSI | 118 |
| 0:18:01 | 0000 PSI | 111 |
| 0:19:01 | 0000 PSI | 104 |
| 0:20:01 | 0000 PSI | 115 |

Q-FLAG SUMMARY FOR DATABATCH - /chem2/nt6.i/20120524.b

Instrument: nt6.i Date: 24-MAY-2012 Method: SW846052312.m

INITIAL CAL: 23-MAY-2012

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

CONTINUING CAL: 24-MAY-2012

| Compound | %D |
|------------|----|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

B of 24/2

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 24-MAY-2012 10:50
 Lab File ID: 05241201.D Init. Cal. Date(s): 23-MAY-2012 23-MAY-2012
 Analysis Type: Init. Cal. Times: 13:34 18:46
 Lab Sample ID: CC0524 Quant Type: ISTD
 Method: /chem2/nt6.i/20120524.b/SW846052312.m

R. et al.

| COMPOUND | RRF / AMOUNT | RF25 | CCAL RRF25 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|--------------------------------|--------------|----------|---------------|------------|-------------|--------------------|------------|
| \$ 1 2-Fluorophenol | 1.16232 | 1.10227 | 1.10227 | 0.010 | -5.16665 | 20.00000 | Averaged |
| \$ 2 Phenol-d5 | 1.38626 | 1.31414 | 1.31414 | 0.010 | -5.20277 | 20.00000 | Averaged |
| 3 Phenol | 1.65584 | 1.65854 | 1.65854 | 0.800 | 0.16328 | 20.00000 | Averaged |
| \$ 5 2-Chlorophenol-d4 | 1.34352 | 1.27189 | 1.27189 | 0.010 | -5.33199 | 20.00000 | Averaged |
| 4 Bis(2-Chloroethyl)ether | 1.14983 | 1.12395 | 1.12395 | 0.700 | -2.25143 | 20.00000 | Averaged |
| 6 2-Chlorophenol | 1.51155 | 1.51189 | 1.51189 | 0.800 | 0.02284 | 20.00000 | Averaged |
| 7 1,3-Dichlorobenzene | 1.54962 | 1.48582 | 1.48582 | 0.100 | -4.11728 | 20.00000 | Averaged |
| 9 1,4-Dichlorobenzene | 1.54874 | 1.48471 | 1.48471 | 0.100 | -4.13492 | 20.00000 | Averaged |
| \$ 10 1,2-Dichlorobenzene-d4 | 0.97983 | 0.91594 | 0.91594 | 0.010 | -6.52077 | 20.00000 | Averaged |
| 12 1,2-Dichlorobenzene | 1.48257 | 1.43314 | 1.43314 | 0.100 | -3.33419 | 20.00000 | Averaged |
| 11 Benzyl alcohol | 0.86466 | 0.75392 | 0.75392 | 0.100 | -12.80719 | 20.00000 | Averaged |
| 14 2,2'-oxybis(1-Chloropropane | 1.28965 | 1.26252 | 1.26252 | 0.010 | -2.10327 | 20.00000 | Averaged |
| 13 2-Methylphenol | 1.26348 | 1.26324 | 1.26324 | 0.700 | -0.01926 | 20.00000 | Averaged |
| 17 Hexachloroethane | 0.55466 | 0.53368 | 0.53368 | 0.300 | -3.78295 | 20.00000 | Averaged |
| 16 N-Nitroso-di-n-propylamine | 0.77647 | 0.76183 | 0.76183 | 0.500 | -1.88590 | 20.00000 | Averaged |
| 15 4-Methylphenol | 1.30469 | 1.32021 | 1.32021 | 0.600 | 1.18969 | 20.00000 | Averaged |
| \$ 18 Nitrobenzene-d5 | 0.32054 | 0.30533 | 0.30533 | 0.010 | -4.74397 | 20.00000 | Averaged |
| 19 Nitrobenzene | 0.32955 | 0.31020 | 0.31020 | 0.200 | -5.86970 | 20.00000 | Averaged |
| 20 Isophorone | 0.48476 | 0.46645 | 0.46645 | 0.400 | -3.77723 | 20.00000 | Averaged |
| 21 2-Nitrophenol | 0.23195 | 0.23302 | 0.23302 | 0.100 | 0.45958 | 20.00000 | Averaged |
| 22 2,4-Dimethylphenol | 0.34708 | 0.34998 | 0.34998 | 0.200 | 0.83586 | 20.00000 | Averaged |
| 23 Bis(2-Chloroethoxy)methane | 0.36353 | 0.34449 | 0.34449 | 0.300 | -5.23789 | 20.00000 | Averaged |
| 24 Benzoic acid | 47.23346 | 50.00000 | 0.20285 | 0.100 | -5.53309 | 20.00000 | Linear |
| 25 2,4-Dichlorophenol | 0.34369 | 0.35608 | 0.35608 | 0.200 | 3.60555 | 20.00000 | Averaged |
| 26 1,2,4-Trichlorobenzene | 0.36910 | 0.34922 | 0.34922 | 0.100 | -5.38664 | 20.00000 | Averaged |
| 28 Naphthalene | 1.01682 | 1.00511 | 1.00511 | 0.700 | -1.15232 | 20.00000 | Averaged |
| 29 4-Chloroaniline | 0.46956 | 0.44898 | 0.44898 | 0.010 | -4.38355 | 20.00000 | Averaged |
| 30 Hexachlorobutadiene | 0.22538 | 0.21249 | 0.21249 | 0.010 | -5.71810 | 20.00000 | Averaged |
| 31 4-Chloro-3-methylphenol | 0.27483 | 0.29851 | 0.29851 | 0.200 | 8.61306 | 20.00000 | Averaged |
| 32 2-Methylnaphthalene | 0.63209 | 0.60492 | 0.60492 | 0.400 | -4.29932 | 20.00000 | Averaged |
| 33 Hexachlorocyclopentadiene | 0.31515 | 0.31555 | 0.31555 | 0.050 | 0.12613 | 20.00000 | Averaged |
| 34 2,4,6-Trichlorophenol | 0.41002 | 0.42620 | 0.42620 | 0.200 | 3.94697 | 20.00000 | Averaged |
| 35 2,4,5-Trichlorophenol | 0.39610 | 0.42852 | 0.42852 | 0.200 | 8.18614 | 20.00000 | Averaged |
| \$ 36 2-Fluorobiphenyl | 1.21486 | 1.13025 | 1.13025 | 0.010 | -6.96413 | 20.00000 | Averaged |
| 37 2-Chloronaphthalene | 1.04401 | 1.01674 | 1.01674 | 0.800 | -2.61238 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 24-MAY-2012 10:50
 Lab File ID: 05241201.D Init. Cal. Date(s): 23-MAY-2012 23-MAY-2012
 Analysis Type: Init. Cal. Times: 13:34 18:46
 Lab Sample ID: CC0524 Quant Type: ISTD
 Method: /chem2/nt6.i/20120524.b/SW846052312.m

| COMPOUND | RRF / AMOUNT | RF25 | CCAL RRF25 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|-------------------------------|--------------|----------|---------------|------------|-------------|--------------------|------------|
| 38 2-Nitroaniline | 0.25631 | 0.24668 | 0.24668 | 0.010 | -3.75492 | 20.00000 | Averaged |
| 39 Dimethylphthalate | 1.05989 | 0.99790 | 0.99790 | 0.010 | -5.84943 | 20.00000 | Averaged |
| 40 Acenaphthylene | 1.63360 | 1.58914 | 1.58914 | 0.900 | -2.72107 | 20.00000 | Averaged |
| 41 2,6-Dinitrotoluene | 0.26221 | 0.24789 | 0.24789 | 0.200 | -5.46055 | 20.00000 | Averaged |
| 43 3-Nitroaniline | 0.29996 | 0.28445 | 0.28445 | 0.010 | -5.16781 | 20.00000 | Averaged |
| 44 Acenaphthene | 1.09603 | 1.01454 | 1.01454 | 0.900 | -7.43543 | 20.00000 | Averaged |
| 45 2,4-Dinitrophenol | 49.26144 | 50.00000 | 0.16133 | 0.010 | -1.47713 | 20.00000 | Quadratic |
| 46 Dibenzofuran | 1.53529 | 1.44640 | 1.44640 | 0.800 | -5.78979 | 20.00000 | Averaged |
| 47 4-Nitrophenol | 22.50200 | 25.00000 | 0.09503 | 0.010 | -9.99200 | 20.00000 | Linear |
| 48 2,4-Dinitrotoluene | 0.33791 | 0.32372 | 0.32372 | 0.200 | -4.19976 | 20.00000 | Averaged |
| 50 Diethylphthalate | 1.00974 | 0.93871 | 0.93871 | 0.010 | -7.03418 | 20.00000 | Averaged |
| 49 Fluorene | 1.24434 | 1.20057 | 1.20057 | 0.900 | -3.51764 | 20.00000 | Averaged |
| 51 4-Chlorophenyl-phenylether | 0.61030 | 0.56846 | 0.56846 | 0.400 | -6.85601 | 20.00000 | Averaged |
| 52 4-Nitroaniline | 0.28225 | 0.27484 | 0.27484 | 0.010 | -2.62484 | 20.00000 | Averaged |
| 53 4,6-Dinitro-2-methylphenol | 0.14418 | 0.15042 | 0.15042 | 0.010 | 4.32691 | 20.00000 | Averaged |
| 54 N-Nitrosodiphenylamine | 0.50404 | 0.46461 | 0.46461 | 0.010 | -7.82235 | 20.00000 | Averaged |
| 55 2,4,6-Tribromophenol | 0.25957 | 0.23544 | 0.23544 | 0.010 | -9.29736 | 20.00000 | Averaged |
| 56 4-Bromophenyl-phenylether | 0.25220 | 0.22708 | 0.22708 | 0.100 | -9.96050 | 20.00000 | Averaged |
| 57 Hexachlorobenzene | 0.31508 | 0.28636 | 0.28636 | 0.100 | -9.11730 | 20.00000 | Averaged |
| 58 Pentachlorophenol | 22.68177 | 25.00000 | 0.12267 | 0.050 | -9.27292 | 20.00000 | Quadratic |
| 60 Phenanthrene | 1.03978 | 1.01168 | 1.01168 | 0.700 | -2.70242 | 20.00000 | Averaged |
| 61 Anthracene | 1.05063 | 1.03015 | 1.03015 | 0.700 | -1.94865 | 20.00000 | Averaged |
| 62 Carbazole | 0.81558 | 0.77679 | 0.77679 | 0.010 | -4.75590 | 20.00000 | Averaged |
| 63 Di-n-butylphthalate | 0.96446 | 0.96772 | 0.96772 | 0.010 | 0.33854 | 20.00000 | Averaged |
| 64 Fluoranthene | 1.11247 | 1.12760 | 1.12760 | 0.600 | 1.35967 | 20.00000 | Averaged |
| 65 Pyrene | 1.03280 | 0.98274 | 0.98274 | 0.600 | -4.84701 | 20.00000 | Averaged |
| 66 Terphenyl-d14 | 0.69228 | 0.61965 | 0.61965 | 0.010 | -10.49233 | 20.00000 | Averaged |
| 67 Butylbenzylphthalate | 0.39231 | 0.37115 | 0.37115 | 0.010 | -5.39350 | 20.00000 | Averaged |
| 68 Benzo(a)anthracene | 1.04465 | 0.96159 | 0.96159 | 0.800 | -7.95112 | 20.00000 | Averaged |
| 70 3,3'-Dichlorobenzidine | 0.39477 | 0.34877 | 0.34877 | 0.010 | -11.65201 | 20.00000 | Averaged |
| 71 Chrysene | 0.95981 | 0.92747 | 0.92747 | 0.700 | -3.36900 | 20.00000 | Averaged |
| 72 bis(2-Ethylhexyl)phthalate | 0.56228 | 0.52478 | 0.52478 | 0.010 | -6.66888 | 20.00000 | Averaged |
| 73 Di-n-octylphthalate | 0.93469 | 0.89408 | 0.89408 | 0.010 | -4.34482 | 20.00000 | Averaged |
| 74 Benzo(b)fluoranthene | 1.07881 | 1.04911 | 1.04911 | 0.700 | -2.75296 | 20.00000 | Averaged |
| 75 Benzo(k)fluoranthene | 1.02618 | 0.99426 | 0.99426 | 0.700 | -3.11087 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 24-MAY-2012 10:50
 Lab File ID: 05241201.D Init. Cal. Date(s): 23-MAY-2012 23-MAY-2012
 Analysis Type: Init. Cal. Times: 13:34 18:46
 Lab Sample ID: CC0524 Quant Type: ISTD
 Method: /chem2/nt6.i/20120524.b/SW846052312.m

| COMPOUND | RF | | CCAL | MIN | MAX | | CURVE TYPE |
|---------------------------------|--------------|---------|---------|-------|-------------|-------------|------------|
| | RRF / AMOUNT | RF25 | RRF25 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 187 Total Benzofluoranthenes | 0.97823 | 0.95841 | 0.95841 | 0.010 | -2.02588 | 20.00000 | Averaged |
| 76 Benzo(a)pyrene | 0.93668 | 0.90591 | 0.90591 | 0.700 | -3.28461 | 20.00000 | Averaged |
| 78 Indeno(1,2,3-cd)pyrene | 1.37952 | 1.33330 | 1.33330 | 0.500 | -3.35042 | 20.00000 | Averaged |
| 79 Dibenzo(a,h)anthracene | 1.10920 | 1.10794 | 1.10794 | 0.400 | -0.11393 | 20.00000 | Averaged |
| 80 Benzo(g,h,i)perylene | 1.16367 | 1.13165 | 1.13165 | 0.500 | -2.75194 | 20.00000 | Averaged |
| 90 N-Nitrosodimethylamine | 0.69180 | 0.64797 | 0.64797 | 0.010 | -6.33573 | 20.00000 | Averaged |
| 103 Pyridine | 1.15583 | 1.15725 | 1.15725 | 0.010 | 0.12345 | 20.00000 | Averaged |
| 91 Aniline | 1.82183 | 1.78771 | 1.78771 | 0.010 | -1.87316 | 20.00000 | Averaged |
| 105 1-methylnaphthalene | 0.48559 | 0.45346 | 0.45346 | 0.010 | -6.61558 | 20.00000 | Averaged |
| 111 Azobenzene (1,2-DP-Hydrazin | 0.93617 | 0.91908 | 0.91908 | 0.010 | -1.82565 | 20.00000 | Averaged |
| 143 1,4-Dioxane | 0.41940 | 0.39033 | 0.39033 | 0.010 | -6.93106 | 20.00000 | Averaged |
| § 137 d8-1,4-Dioxane | 0.44747 | 0.41474 | 0.41474 | 0.010 | -7.31541 | 20.00000 | Averaged |
| 144 alpha-Terpineol | 0.19211 | 0.17852 | 0.17852 | 0.010 | -7.07361 | 20.00000 | Averaged |
| 177 p-Benzoquinone | 0.05488 | 0.05349 | 0.05349 | 0.010 | -2.52726 | 20.00000 | Averaged |
| 98 Retene | 0.37090 | 0.34100 | 0.34100 | 0.010 | -8.05971 | 20.00000 | Averaged |
| 99 Perylene | 0.90576 | 0.84432 | 0.84432 | 0.010 | -6.78309 | 20.00000 | Averaged |
| 133 Butylatedhydroxytoluene | 0.78067 | 0.74521 | 0.74521 | 0.010 | -4.54192 | 20.00000 | Averaged |
| 115 Tributyl Phosphate | 0.59290 | 0.55070 | 0.55070 | 0.010 | -7.11779 | 20.00000 | Averaged |
| 116 Dibutyl Phenyl Phosphate | 0.47909 | 0.45629 | 0.45629 | 0.010 | -4.75906 | 20.00000 | Averaged |
| 117 Butyl Diphenyl Phosphate | 0.12025 | 0.10988 | 0.10988 | 0.010 | -8.62888 | 20.00000 | Averaged |
| 118 Triphenyl Phosphate | 0.23152 | 0.21238 | 0.21238 | 0.010 | -8.26679 | 20.00000 | Averaged |
| 123 Acetophenone | 1.56612 | 1.53119 | 1.53119 | 0.010 | -2.23025 | 20.00000 | Averaged |
| 168 Pentachlorobenzene | 0.51870 | 0.47844 | 0.47844 | 0.010 | -7.76160 | 20.00000 | Averaged |
| 113 Diphenyl Oxide | 0.73168 | 0.66227 | 0.66227 | 0.010 | -9.48705 | 20.00000 | Averaged |
| 112 Biphenyl | 1.11643 | 1.01690 | 1.01690 | 0.010 | -8.91494 | 20.00000 | Averaged |
| 120 2,3,4,6-Tetrachlorophenol | 0.28317 | 0.30209 | 0.30209 | 0.010 | 6.67993 | 20.00000 | Averaged |
| 151 1,2,4,5-Tetrachlorobenzene | 0.54306 | 0.51070 | 0.51070 | 0.010 | -5.95921 | 20.00000 | Averaged |
| 110 Tetrachloroguaiacol | 0.13235 | 0.12608 | 0.12608 | 0.010 | -4.74005 | 20.00000 | Averaged |
| 109 3,4,5-Trichloroguaiacol | 0.13159 | 0.11856 | 0.11856 | 0.010 | -9.90007 | 20.00000 | Averaged |
| 181 3,4,6-Trichloroguaiacol | 0.57316 | 0.54320 | 0.54320 | 0.010 | -5.22655 | 20.00000 | Averaged |
| 108 4,5,6-Trichloroguaiacol | 0.21817 | 0.19753 | 0.19753 | 0.010 | -9.45789 | 20.00000 | Averaged |
| 184 3,4-Dichloroguaiacol | 0.50906 | 0.47635 | 0.47635 | 0.010 | -6.42549 | 20.00000 | Averaged |
| 107 4,5-Dichloroguaiacol | 0.28069 | 0.26102 | 0.26102 | 0.010 | -7.00515 | 20.00000 | Averaged |
| 182 4,6-Dichloroguaiacol | 0.63689 | 0.61464 | 0.61464 | 0.010 | -3.49320 | 20.00000 | Averaged |
| 185 4-Chloroguaiacol | 0.49321 | 0.49196 | 0.49196 | 0.010 | -0.25200 | 20.00000 | Averaged |

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 24-MAY-2012 10:50
 Lab File ID: 05241201.D Init. Cal. Date(s): 23-MAY-2012 23-MAY-2012
 Analysis Type: Init. Cal. Times: 13:34 18:46
 Lab Sample ID: CC0524 Quant Type: ISTD
 Method: /chem2/nt6.i/20120524.b/SW846052312.m

| COMPOUND | CCAL | | MIN | | MAX | | CURVE TYPE |
|-----------------------------|--------------|---------|---------|-------|-------------|-------------|------------|
| | RRF / AMOUNT | RF25 | RRF25 | RRF | %D / %DRIFT | %D / %DRIFT | |
| 186 Carbaryl | 0.48418 | 0.50613 | 0.50613 | 0.010 | 4.53337 | 20.00000 | Averaged |
| 178 2-Benzyl-4-Chlorophenol | 0.21443 | 0.20459 | 0.20459 | 0.010 | -4.58995 | 20.00000 | Averaged |
| 106 Guaiacol | 1.01087 | 0.97087 | 0.97087 | 0.010 | -3.95675 | 20.00000 | Averaged |

Analytical Resources, Inc.

Semivolatiles Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241201.D
 Lab Smp Id: CC0524 Client Smp ID: CC0524
 Inj Date : 24-MAY-2012 10:50
 Operator : JZ Inst ID: nt6.i
 Smp Info : CC0524
 Misc Info : 12-
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 15:43 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Compound Sublist: ICALA.sub

Handwritten signature and date: JZ 5/24/12

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|---------------------------------|-----------|-------|---------------|----------|-----------------|----------------|--|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| \$ 1 2-Fluorophenol | 112 | 5.187 | 5.187 (0.721) | 1159600 | 25.0000 | 23.71 | |
| \$ 2 Phenol-d5 | 99 | 6.865 | 6.865 (0.955) | 1382492 | 25.0000 | 23.70 | |
| 3 Phenol | 94 | 6.881 | 6.881 (0.957) | 1744808 | 25.0000 | 25.04 | |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.907 | 6.907 (0.961) | 1338041 | 25.0000 | 23.67 | |
| 4 Bis(2-Chloroethyl)ether | 93 | 6.891 | 6.891 (0.958) | 1182405 | 25.0000 | 24.44 | |
| 6 2-Chlorophenol | 128 | 6.929 | 6.929 (0.964) | 1590532 | 25.0000 | 25.01 | |
| 7 1,3-Dichlorobenzene | 146 | 7.121 | 7.121 (0.990) | 1563100 | 25.0000 | 23.97 | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.191 | 7.191 (1.000) | 841610 | 20.0000 | | |
| 9 1,4-Dichlorobenzene | 146 | 7.217 | 7.217 (1.004) | 1561930 | 25.0000 | 23.97 | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.490 | 7.490 (1.042) | 963578 | 25.0000 | 23.37 | |
| 12 1,2-Dichlorobenzene | 146 | 7.516 | 7.516 (1.045) | 1507679 | 25.0000 | 24.17 | |
| 11 Benzyl alcohol | 108 | 7.532 | 7.532 (1.048) | 793132 | 25.0000 | 21.80 | |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.783 | 7.783 (1.082) | 1328189 | 25.0000 | 24.47 | |
| 13 2-Methylphenol | 108 | 7.816 | 7.816 (1.087) | 1328942 | 25.0000 | 25.00 | |
| 17 Hexachloroethane | 117 | 8.003 | 8.003 (1.113) | 561438 | 25.0000 | 24.05 | |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.008 | 8.008 (1.114) | 801450 | 25.0000 | 24.53 | |
| 15 4-Methylphenol | 108 | 8.056 | 8.056 (1.120) | 1388877 | 25.0000 | 25.30 | |
| \$ 18 Nitrobenzene-d5 | 82 | 8.147 | 8.147 (0.880) | 1179748 | 25.0000 | 23.81 | |
| 19 Nitrobenzene | 77 | 8.179 | 8.179 (0.883) | 1198574 | 25.0000 | 23.53 | |
| 20 Isophorone | 82 | 8.574 | 8.574 (0.926) | 1802270 | 25.0000 | 24.06 | |
| 21 2-Nitrophenol | 139 | 8.702 | 8.702 (0.940) | 900335 | 25.0000 | 25.11 | |
| 22 2,4-Dimethylphenol | 107 | 8.879 | 8.879 (0.959) | 1352274 | 25.0000 | 25.21 | |
| 23 Bis(2-Chloroethoxy)methane | 93 | 9.002 | 9.002 (0.972) | 1331037 | 25.0000 | 23.69 | |
| 24 Benzoic acid | 105 | 9.188 | 9.188 (0.992) | 1567583 | 50.0000 | 47.23 | |
| 25 2,4-Dichlorophenol | 162 | 9.114 | 9.114 (0.984) | 1375829 | 25.0000 | 25.90 | |
| 26 1,2,4-Trichlorobenzene | 180 | 9.210 | 9.210 (0.995) | 1349321 | 25.0000 | 23.65 | |
| * 27 Naphthalene-d8 | 136 | 9.258 | 9.258 (1.000) | 3091072 | 20.0000 | | |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 28 Naphthalene | 128 | 9.285 | 9.285 | (1.003) | 3883570 | 25.0000 | 24.71 |
| 29 4-Chloroaniline | 127 | 9.466 | 9.466 | (1.022) | 1734775 | 25.0000 | 23.90 |
| 30 Hexachlorobutadiene | 225 | 9.627 | 9.627 | (1.040) | 821023 | 25.0000 | 23.57 |
| 31 4-Chloro-3-methylphenol | 107 | 10.337 | 10.337 | (1.117) | 1153381 | 25.0000 | 27.15 |
| 32 2-Methylnaphthalene | 141 | 10.412 | 10.412 | (1.125) | 2337296 | 25.0000 | 23.93 |
| 33 Hexachlorocyclopentadiene | 237 | 10.796 | 10.796 | (0.892) | 781674 | 25.0000 | 25.03 |
| 34 2,4,6-Trichlorophenol | 196 | 10.957 | 10.957 | (0.905) | 1055790 | 25.0000 | 25.99 |
| 35 2,4,5-Trichlorophenol | 196 | 11.021 | 11.021 | (0.910) | 1061543 | 25.0000 | 27.05 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.074 | 11.074 | (0.915) | 2799866 | 25.0000 | 23.26 |
| 37 2-Chloronaphthalene | 162 | 11.181 | 11.181 | (0.924) | 2518670 | 25.0000 | 24.35 |
| 38 2-Nitroaniline | 65 | 11.448 | 11.448 | (0.946) | 611085 | 25.0000 | 24.06 |
| 39 Dimethylphthalate | 163 | 11.838 | 11.838 | (0.978) | 2471995 | 25.0000 | 23.54 |
| 40 Acenaphthylene | 152 | 11.849 | 11.849 | (0.979) | 3936641 | 25.0000 | 24.32 |
| 41 2,6-Dinitrotoluene | 165 | 11.918 | 11.918 | (0.985) | 614072 | 25.0000 | 23.63 |
| * 42 Acenaphthene-d10 | 164 | 12.105 | 12.105 | (1.000) | 1981765 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.127 | 12.127 | (1.002) | 704652 | 25.0000 | 23.71 |
| 44 Acenaphthene | 153 | 12.153 | 12.153 | (1.004) | 2513216 | 25.0000 | 23.14 |
| 45 2,4-Dinitrophenol | 184 | 12.292 | 12.292 | (1.015) | 799277 | 50.0000 | 49.26 |
| 46 Dibenzofuran | 168 | 12.420 | 12.420 | (1.026) | 3583042 | 25.0000 | 23.55 |
| 47 4-Nitrophenol | 109 | 12.517 | 12.517 | (1.034) | 235401 | 25.0000 | 22.50 |
| 48 2,4-Dinitrotoluene | 165 | 12.538 | 12.538 | (1.036) | 801912 | 25.0000 | 23.95 |
| 50 Diethylphthalate | 149 | 12.987 | 12.987 | (1.073) | 2325390 | 25.0000 | 23.24 |
| 49 Fluorene | 166 | 12.971 | 12.971 | (1.071) | 2974062 | 25.0000 | 24.12 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.019 | 13.019 | (1.075) | 1408192 | 25.0000 | 23.29 |
| 52 4-Nitroaniline | 138 | 13.115 | 13.115 | (1.083) | 680845 | 25.0000 | 24.34 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.190 | 13.190 | (0.912) | 1205358 | 50.0000 | 52.16 |
| 54 N-Nitrosodiphenylamine | 169 | 13.232 | 13.232 | (0.915) | 1861527 | 25.0000 | 23.04 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.398 | 13.398 | (1.107) | 583231 | 25.0000 | 22.68 |
| 56 4-Bromophenyl-phenylether | 248 | 13.788 | 13.788 | (0.954) | 909816 | 25.0000 | 22.51 |
| 57 Hexachlorobenzene | 284 | 13.986 | 13.986 | (0.967) | 1147331 | 25.0000 | 22.72 |
| 58 Pentachlorophenol | 266 | 14.306 | 14.306 | (0.990) | 491477 | 25.0000 | 22.68 |
| * 59 Phenanthrene-d10 | 188 | 14.456 | 14.456 | (1.000) | 3205322 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.493 | 14.493 | (1.003) | 4053452 | 25.0000 | 24.32 |
| 61 Anthracene | 178 | 14.563 | 14.563 | (1.007) | 4127462 | 25.0000 | 24.51 |
| 62 Carbazole | 167 | 14.873 | 14.873 | (1.029) | 3112323 | 25.0000 | 23.81 |
| 63 Di-n-butylphthalate | 149 | 15.626 | 15.626 | (1.081) | 3877328 | 25.0000 | 25.08 |
| 64 Fluoranthene | 202 | 16.411 | 16.411 | (1.135) | 4517883 | 25.0000 | 25.34 |
| 65 Pyrene | 202 | 16.753 | 16.753 | (0.894) | 4743059 | 25.0000 | 23.79 |
| \$ 66 Terphenyl-d14 | 244 | 17.106 | 17.106 | (0.913) | 2990634 | 25.0000 | 22.38 |
| 67 Butylbenzylphthalate | 149 | 18.014 | 18.014 | (0.962) | 1791298 | 25.0000 | 23.65 |
| 68 Benzo(a)anthracene | 228 | 18.708 | 18.708 | (0.999) | 4640996 | 25.0000 | 23.01 |
| * 69 Chrysene-d12 | 240 | 18.735 | 18.735 | (1.000) | 3861093 | 20.0000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.751 | 18.751 | (1.001) | 1683311 | 25.0000 | 22.09 |
| 71 Chrysene | 228 | 18.772 | 18.772 | (1.002) | 4476312 | 25.0000 | 24.16 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.034 | 19.034 | (0.953) | 2397812 | 25.0000 | 23.33 |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.964 | 19.964 | (1.000) | 3655319 | 20.0000 | |
| 73 Di-n-octylphthalate | 149 | 19.974 | 19.974 | (1.001) | 4085203 | 25.0000 | 23.91 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 74 Benzo(b)fluoranthene | 252 | 20.354 | 20.354 | (0.975) | 5297393 | 25.0000 | 24.31 |
| 75 Benzo(k)fluoranthene | 252 | 20.386 | 20.386 | (0.977) | 5020431 | 25.0000 | 24.22 |
| 187 Total Benzofluoranthenes | 252 | 20.386 | 20.386 | (0.977) | 9678884 | 50.0000 | 48.99 |
| 76 Benzo(a)pyrene | 252 | 20.792 | 20.792 | (0.996) | 4574336 | 25.0000 | 24.18 |
| * 77 Perylene-d12 | 264 | 20.872 | 20.872 | (1.000) | 4039539 | 20.0000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.223 | 22.223 | (1.065) | 6732378 | 25.0000 | 24.16 |
| 79 Dibenzo(a,h)anthracene | 278 | 22.245 | 22.245 | (1.066) | 5594443 | 25.0000 | 24.97 |
| 80 Benzo(g,h,i)perylene | 276 | 22.528 | 22.528 | (1.079) | 5714181 | 25.0000 | 24.31 |
| 90 N-Nitrosodimethylamine | 74 | 2.281 | 2.281 | (0.317) | 681671 | 25.0000 | 23.42 |
| 103 Pyridine | 79 | 2.254 | 2.254 | (0.314) | 1217447 | 25.0000 | 25.03 |
| 91 Aniline | 93 | 6.752 | 6.752 | (0.939) | 1880692 | 25.0000 | 24.53 |
| 105 1-methylnaphthalene | 141 | 10.577 | 10.577 | (1.143) | 1752112 | 25.0000 | 23.35 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.265 | 13.265 | (1.096) | 2276755 | 25.0000 | 24.54 |
| 143 1,4-Dioxane | 88 | 1.806 | 1.806 | (0.251) | 410629 | 25.0000 | 23.27 |
| \$ 137 d8-1,4-Dioxane | 96 | 1.774 | 1.774 | (0.247) | 436309 | 25.0000 | 23.17 |
| 144 alpha-Terpineol | 59 | 9.354 | 9.354 | (1.010) | 689767 | 25.0000 | 23.23 |
| 177 p-Benzoquinone | 82 | 5.834 | 5.834 | (0.630) | 206677 | 25.0000 | 24.37 |
| 98 Retene | 219 | 17.341 | 17.341 | (0.926) | 1645811 | 25.0000 | 22.99 |
| 99 Perylene | 252 | 20.904 | 20.904 | (1.002) | 4263315 | 25.0000 | 23.30 |
| 133 Butylatedhydroxytoluene | 205 | 12.324 | 12.324 | (1.018) | 1846034 | 25.0000 | 23.86 |
| 115 Tributyl Phosphate | 99 | 13.382 | 13.382 | (0.926) | 2206465 | 25.0000 | 23.22 |
| 116 Dibutyl Phenyl Phosphate | 175 | 15.081 | 15.081 | (1.043) | 1828179 | 25.0000 | 23.81 |
| 117 Butyl Diphenyl Phosphate | 94 | 16.737 | 16.737 | (0.893) | 530306 | 25.0000 | 22.84 |
| 118 Triphenyl Phosphate | 326 | 18.318 | 18.318 | (0.978) | 1025043 | 25.0000 | 22.93 |
| 123 Acetophenone | 105 | 7.922 | 7.922 | (1.102) | 1610834 | 25.0000 | 24.44 |
| 168 Pentachlorobenzene | 250 | 12.458 | 12.458 | (1.029) | 1185192 | 25.0000 | 23.06 |
| 113 Diphenyl Oxide | 170 | 11.395 | 11.395 | (0.941) | 1640576 | 25.0000 | 22.63 |
| 112 Biphenyl | 154 | 11.197 | 11.197 | (0.925) | 2519073 | 25.0000 | 22.77 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 12.725 | 12.725 | (1.051) | 748340 | 25.0000 | 26.67 |
| 151 1,2,4,5-Tetrachlorobenzene | 216 | 10.754 | 10.754 | (0.888) | 1265114 | 25.0000 | 23.51 |
| 110 Tetrachloroguaiacol | 247 | 14.440 | 14.440 | (0.999) | 1010282 | 50.0000 | 47.63 |
| 109 3,4,5-Trichloroguaiacol | 213 | 12.826 | 12.826 | (0.887) | 475031 | 25.0000 | 22.52 |
| 181 3,4,6-Trichloroguaiacol | 211 | 12.944 | 12.944 | (1.800) | 571455 | 25.0000 | 23.69 |
| 108 4,5,6-Trichloroguaiacol | 213 | 13.857 | 13.857 | (1.145) | 489326 | 25.0000 | 22.64 |
| 184 3,4-Dichloroguaiacol | 192 | 11.299 | 11.299 | (1.571) | 501125 | 25.0000 | 23.39 |
| 107 4,5-Dichloroguaiacol | 192 | 12.095 | 12.095 | (0.999) | 1293217 | 50.0000 | 46.50 |
| 182 4,6-Dichloroguaiacol | 192 | 12.095 | 12.095 | (1.682) | 1293217 | 50.0000 | 48.25 |
| 185 4-Chloroguaiacol | 115 | 10.225 | 10.225 | (1.422) | 258776 | 12.5000 | 12.47 |
| 186 Carbaryl | 144 | 15.300 | 15.300 | (1.058) | 2027876 | 25.0000 | 26.13 |
| 178 2-Benzyl-4-Chlorophenol | 218 | 15.278 | 15.278 | (1.057) | 819712 | 25.0000 | 23.85 |
| 106 Guaiacol | 124 | 8.206 | 8.206 | (1.141) | 1021366 | 25.0000 | 24.01 |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241201.D
 Lab Smp Id: CC0524
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: CC0524
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 841610 | -12.67 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3091072 | -9.89 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1981765 | -12.28 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3205322 | -7.00 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3861093 | -2.54 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3655319 | -2.75 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4039539 | -2.76 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.00 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | 0.00 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.00 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.00 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | 0.00 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | 0.00 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | 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.

Date : 24-MAY-2012 10:50

Client ID: CC0524

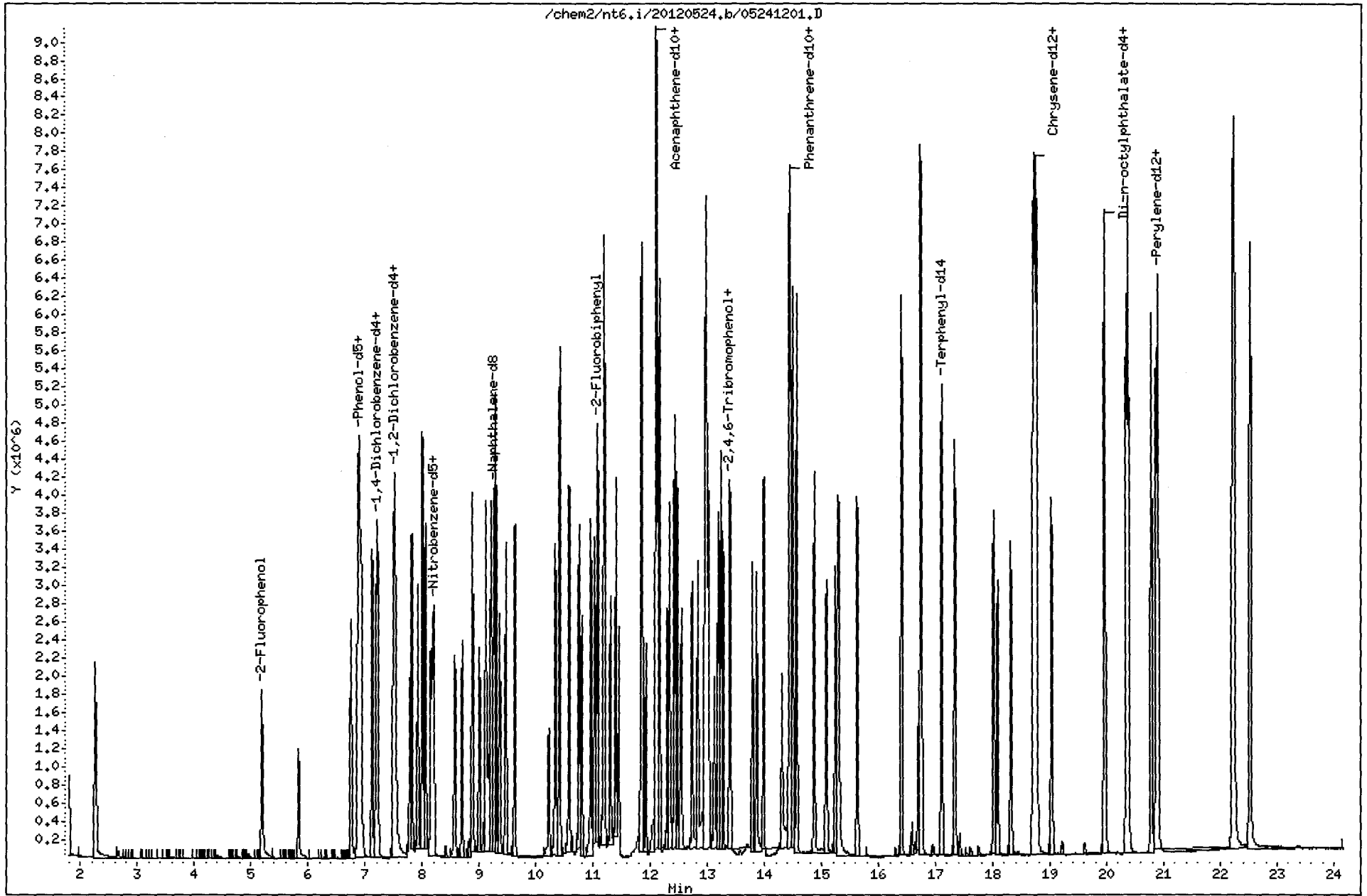
Sample Info: CC0524

Instrument: nt6.i

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32



0052:01108

CO-ELUTION SUMMARY FOR FILE - 05241201.D

Lab ID: CC0524, Method: SW846052312.m, Instrument: nt6.i, Date: 24-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Date : 24-MAY-2012 10:50

Client ID: DFTPP0524

Instrument: nt6.i

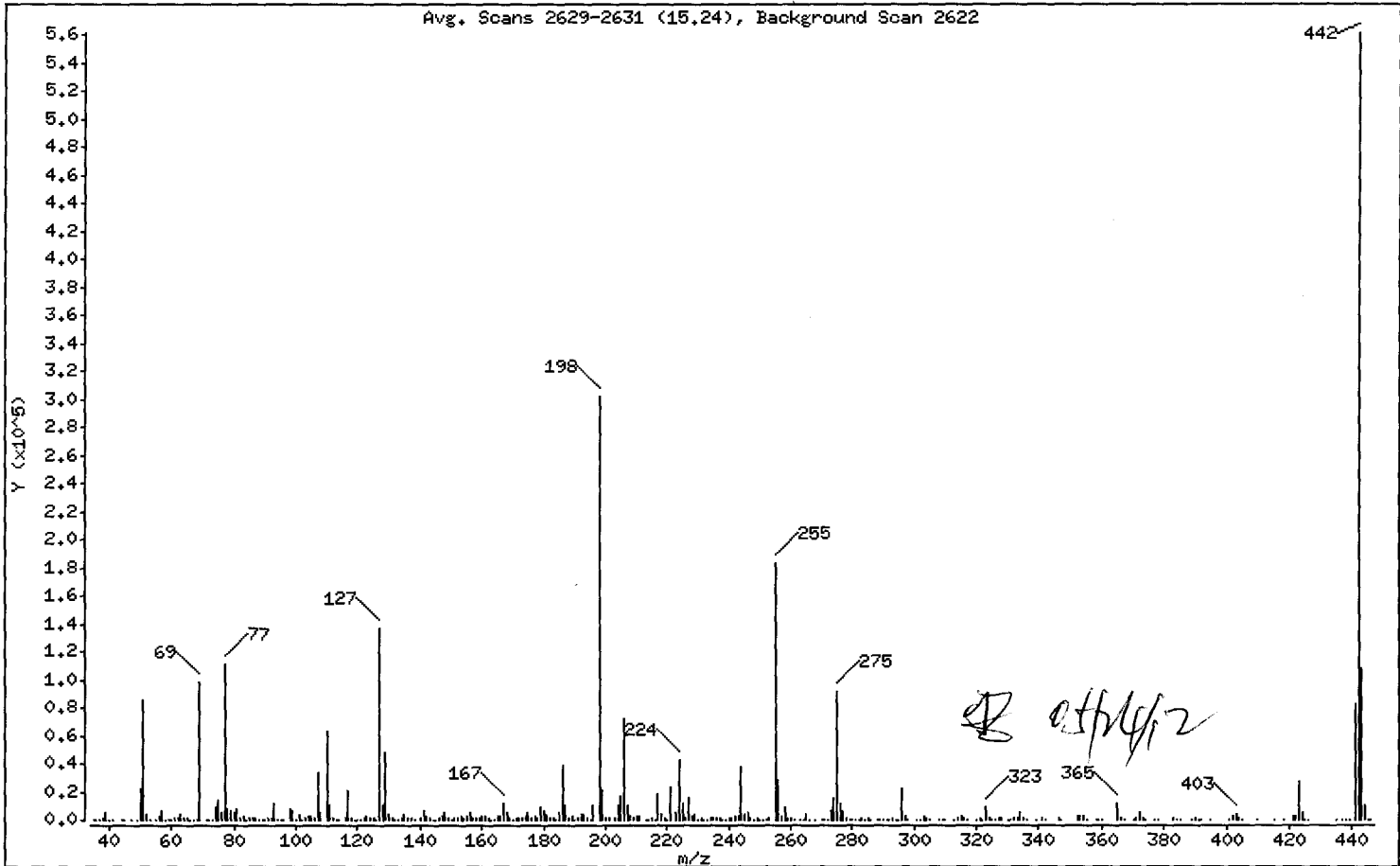
Sample Info: DFTPP0524

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

1 dftpp



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 28.31 |
| 68 | Less than 2.00% of mass 69 | 0.12 (0.36) |
| 69 | Mass 69 relative abundance | 32.26 |
| 70 | Less than 2.00% of mass 69 | 0.00 (0.00) |
| 127 | 10.00 - 80.00% of mass 198 | 45.16 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 7.01 |
| 275 | 10.00 - 60.00% of mass 198 | 30.24 |
| 365 | Greater than 1.00% of mass 198 | 3.91 |
| 441 | 0.01 - 24.00% of mass 442 | 27.14 (14.61) |
| 442 | 50.00 - 200.00% of mass 198 | 185.73 |
| 443 | 15.00 - 24.00% of mass 442 | 35.77 (19.26) |

Date : 24-MAY-2012 10:50

Client ID: DFTPP0524

Instrument: nt6.i

Sample Info: DFTPP0524

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Data File: 05241201.D
 Spectrum: Avg. Scans 2629-2631 (15,24), Background Scan 2622
 Location of Maximum: 442.00
 Number of points: 328

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|-------|--------|------|
| 35,00 | 260 | 127,00 | 136512 | 214,00 | 51 | 305,00 | 57 |
| 36,00 | 42 | 128,00 | 10208 | 215,00 | 870 | 308,00 | 349 |
| 37,00 | 168 | 129,00 | 47168 | 216,00 | 365 | 309,00 | 179 |
| 38,00 | 1192 | 130,00 | 3840 | 217,00 | 17656 | 310,00 | 409 |
| 39,00 | 5798 | 131,00 | 753 | 218,00 | 4198 | 313,00 | 319 |
| 40,00 | 312 | 132,00 | 425 | 219,00 | 657 | 314,00 | 835 |
| 41,00 | 126 | 133,00 | 226 | 220,00 | 96 | 315,00 | 2727 |
| 44,00 | 57 | 134,00 | 1101 | 221,00 | 23016 | 316,00 | 1339 |
| 45,00 | 322 | 135,00 | 3553 | 223,00 | 4752 | 317,00 | 398 |
| 47,00 | 57 | 136,00 | 1435 | 224,00 | 43152 | 320,00 | 119 |
| 49,00 | 210 | 137,00 | 1763 | 225,00 | 11063 | 321,00 | 714 |
| 50,00 | 21440 | 138,00 | 566 | 226,00 | 1238 | 322,00 | 305 |
| 51,00 | 85584 | 140,00 | 1409 | 227,00 | 14949 | 323,00 | 9152 |
| 52,00 | 4515 | 141,00 | 6283 | 228,00 | 2238 | 324,00 | 1598 |
| 53,00 | 199 | 142,00 | 2074 | 229,00 | 4073 | 325,00 | 142 |
| 55,00 | 341 | 143,00 | 1259 | 230,00 | 565 | 326,00 | 56 |
| 56,00 | 2266 | 144,00 | 69 | 231,00 | 1595 | 327,00 | 1822 |
| 57,00 | 6633 | 145,00 | 445 | 232,00 | 206 | 328,00 | 957 |
| 58,00 | 355 | 146,00 | 966 | 233,00 | 381 | 330,00 | 51 |
| 59,00 | 79 | 147,00 | 3131 | 234,00 | 1024 | 331,00 | 56 |
| 60,00 | 221 | 148,00 | 5774 | 235,00 | 1183 | 332,00 | 983 |
| 61,00 | 1014 | 149,00 | 1338 | 236,00 | 689 | 333,00 | 956 |
| 62,00 | 1336 | 150,00 | 344 | 237,00 | 1414 | 334,00 | 5542 |
| 63,00 | 3361 | 151,00 | 1221 | 238,00 | 362 | 335,00 | 1552 |
| 64,00 | 674 | 152,00 | 1280 | 239,00 | 604 | 336,00 | 161 |
| 65,00 | 1791 | 153,00 | 2018 | 240,00 | 763 | 339,00 | 278 |
| 66,00 | 17 | 154,00 | 1367 | 241,00 | 1076 | 341,00 | 1202 |
| 67,00 | 264 | 155,00 | 3220 | 242,00 | 2241 | 342,00 | 435 |
| 68,00 | 352 | 156,00 | 5572 | 243,00 | 2869 | 346,00 | 1825 |
| 69,00 | 97520 | 157,00 | 1262 | 244,00 | 37008 | 347,00 | 488 |
| 71,00 | 232 | 158,00 | 1275 | 245,00 | 4437 | 352,00 | 2912 |
| 72,00 | 170 | 159,00 | 766 | 246,00 | 5393 | 353,00 | 2266 |
| 73,00 | 240 | 160,00 | 2096 | 247,00 | 1177 | 354,00 | 3057 |
| 74,00 | 8472 | 161,00 | 3012 | 248,00 | 310 | 355,00 | 580 |
| 75,00 | 14611 | 162,00 | 1442 | 249,00 | 1426 | 358,00 | 76 |

Date : 24-MAY-2012 10:50

Client ID: DFTPP0524

Instrument: nt6.i

Sample Info: DFTPP0524

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Data File: 05241201.D

Spectrum: Avg. Scans 2629-2631 (15,24), Background Scan 2622

Location of Maximum: 442.00

Number of points: 328

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 76.00 | 5595 | 163.00 | 259 | 250.00 | 340 | 359.00 | 103 |
| 77.00 | 110520 | 164.00 | 422 | 251.00 | 466 | 360.00 | 75 |
| 78.00 | 7989 | 165.00 | 2865 | 252.00 | 344 | 365.00 | 11832 |
| 79.00 | 6109 | 166.00 | 2104 | 253.00 | 967 | 366.00 | 1823 |
| 80.00 | 5148 | 167.00 | 11480 | 255.00 | 183232 | 367.00 | 320 |
| 81.00 | 7345 | 168.00 | 4890 | 256.00 | 27776 | 370.00 | 372 |
| 82.00 | 1715 | 169.00 | 1064 | 257.00 | 1960 | 371.00 | 722 |
| 83.00 | 2045 | 170.00 | 469 | 258.00 | 9146 | 372.00 | 5453 |
| 84.00 | 466 | 171.00 | 695 | 259.00 | 1508 | 373.00 | 1421 |
| 85.00 | 1070 | 172.00 | 669 | 260.00 | 704 | 374.00 | 72 |
| 86.00 | 1904 | 173.00 | 1415 | 261.00 | 475 | 377.00 | 73 |
| 87.00 | 973 | 174.00 | 2702 | 263.00 | 159 | 378.00 | 63 |
| 88.00 | 546 | 175.00 | 4631 | 264.00 | 110 | 383.00 | 1705 |
| 89.00 | 60 | 176.00 | 1756 | 265.00 | 3496 | 384.00 | 302 |
| 90.00 | 117 | 177.00 | 1968 | 266.00 | 516 | 385.00 | 118 |
| 91.00 | 1468 | 178.00 | 674 | 268.00 | 79 | 389.00 | 59 |
| 92.00 | 1654 | 179.00 | 9459 | 270.00 | 366 | 390.00 | 923 |
| 93.00 | 11563 | 180.00 | 6138 | 271.00 | 348 | 391.00 | 574 |
| 94.00 | 575 | 181.00 | 3431 | 272.00 | 515 | 392.00 | 292 |
| 95.00 | 237 | 182.00 | 1065 | 273.00 | 6198 | 395.00 | 56 |
| 96.00 | 476 | 183.00 | 1180 | 274.00 | 15949 | 401.00 | 441 |
| 98.00 | 7386 | 184.00 | 579 | 275.00 | 91392 | 402.00 | 2519 |
| 99.00 | 6652 | 185.00 | 4759 | 276.00 | 11892 | 403.00 | 3847 |
| 100.00 | 515 | 186.00 | 38744 | 277.00 | 6420 | 404.00 | 1585 |
| 101.00 | 3788 | 187.00 | 10343 | 278.00 | 1007 | 405.00 | 236 |
| 102.00 | 631 | 188.00 | 1201 | 279.00 | 220 | 410.00 | 60 |
| 103.00 | 1592 | 189.00 | 2045 | 280.00 | 64 | 415.00 | 216 |
| 104.00 | 2431 | 190.00 | 455 | 281.00 | 250 | 418.00 | 57 |
| 105.00 | 2821 | 191.00 | 932 | 282.00 | 153 | 421.00 | 3143 |
| 106.00 | 893 | 192.00 | 3492 | 283.00 | 943 | 422.00 | 3051 |
| 107.00 | 33072 | 193.00 | 3308 | 284.00 | 475 | 423.00 | 27056 |
| 108.00 | 5096 | 194.00 | 646 | 285.00 | 1200 | 424.00 | 5324 |
| 110.00 | 63360 | 195.00 | 528 | 286.00 | 403 | 425.00 | 538 |
| 111.00 | 9949 | 196.00 | 10017 | 288.00 | 56 | 426.00 | 57 |
| 112.00 | 1740 | 198.00 | 302272 | 289.00 | 325 | 435.00 | 56 |

Date : 24-MAY-2012 10:50

Client ID: DFTPP0524

Instrument: nt6.i

Sample Info: DFTPP0524

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Data File: 05241201.D

Spectrum: Avg. Scans 2629-2631 (15,24), Background Scan 2622

Location of Maximum: 442.00

Number of points: 328

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|-------|--------|-------|--------|-------|--------|--------|
| 113.00 | 518 | 199.00 | 21200 | 290.00 | 324 | 437.00 | 116 |
| 114.00 | 198 | 200.00 | 1478 | 291.00 | 317 | 438.00 | 149 |
| 116.00 | 1076 | 201.00 | 1747 | 292.00 | 316 | 439.00 | 423 |
| 117.00 | 20792 | 203.00 | 1727 | 293.00 | 1548 | 441.00 | 82048 |
| 118.00 | 1652 | 204.00 | 9990 | 294.00 | 566 | 442.00 | 561408 |
| 119.00 | 186 | 205.00 | 17352 | 295.00 | 236 | 443.00 | 108120 |
| 120.00 | 276 | 206.00 | 71816 | 296.00 | 22536 | 444.00 | 9788 |
| 121.00 | 88 | 207.00 | 10394 | 297.00 | 2765 | 445.00 | 472 |
| 122.00 | 1907 | 208.00 | 2279 | 298.00 | 145 | 446.00 | 52 |
| 123.00 | 2741 | 209.00 | 711 | 301.00 | 253 | | |
| 124.00 | 1407 | 210.00 | 2307 | 302.00 | 504 | | |
| 125.00 | 1502 | 211.00 | 2869 | 303.00 | 2744 | | |
| 126.00 | 155 | 213.00 | 213 | 304.00 | 960 | | |

Date : 24-MAY-2012 10:50

Client ID: DFIPP0524

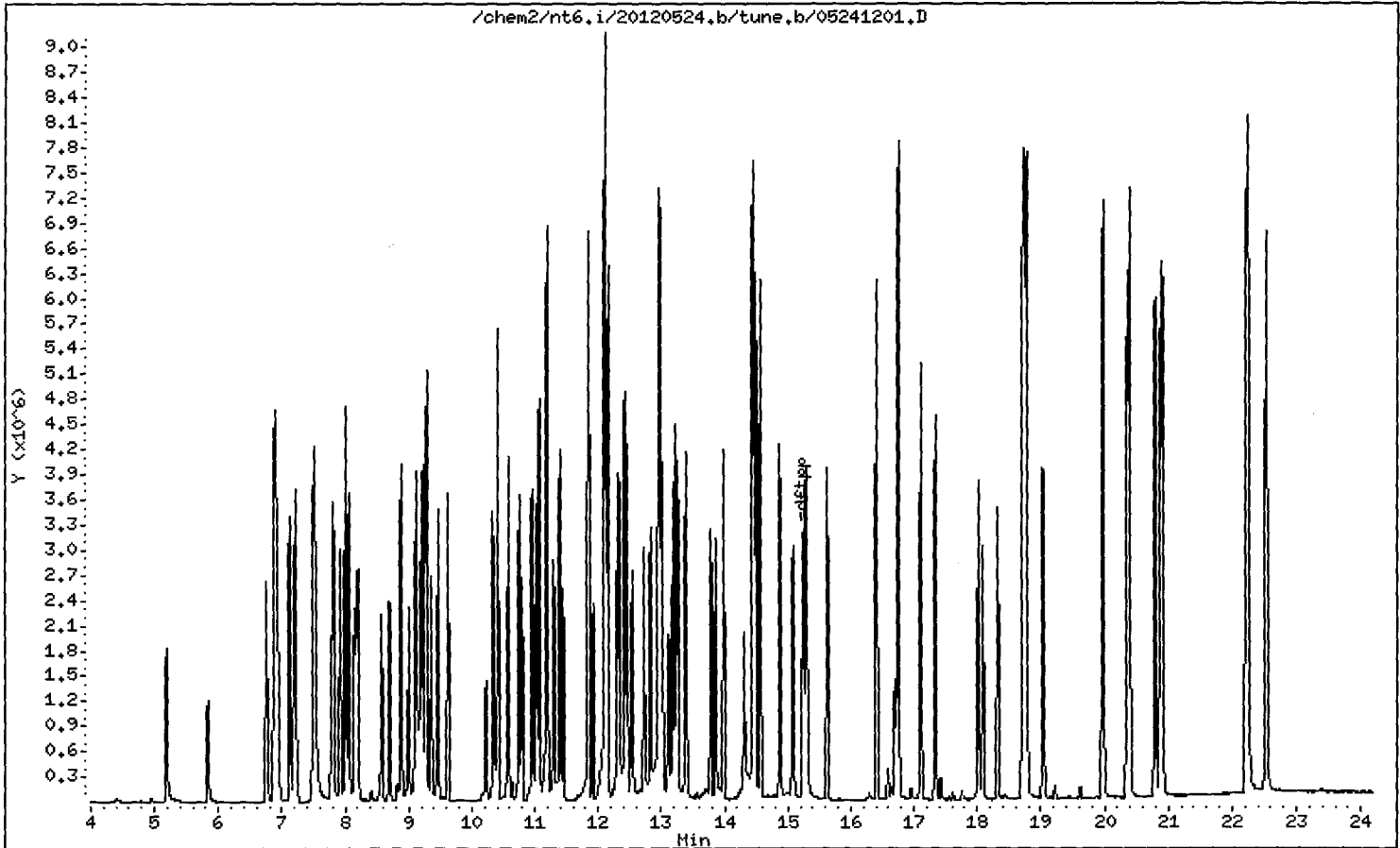
Instrument: nt6.i

Sample Info: DFIPP0524

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem2/nt6.i/20120524.b/ddt.b/05241201.D ARI ID: DDT0524
Method: /chem2/nt6.i/20120524.b/ddt.b/sw846ddt.m Misc: 12-
Analysis Date: 24-MAY-2012 10:50 Instrument: nt6.i

| COMPOUND | RT | AREA |
|-------------------|--------|---------|
| Pentachlorophenol | 14.306 | 491477 |
| Benzidine | 16.694 | 1155260 |
| 4,4'-DDE | ---- | ---- |
| 4,4'-DDD | 17.618 | 26981 |
| 4,4'-DDT | 18.083 | 1164099 |

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

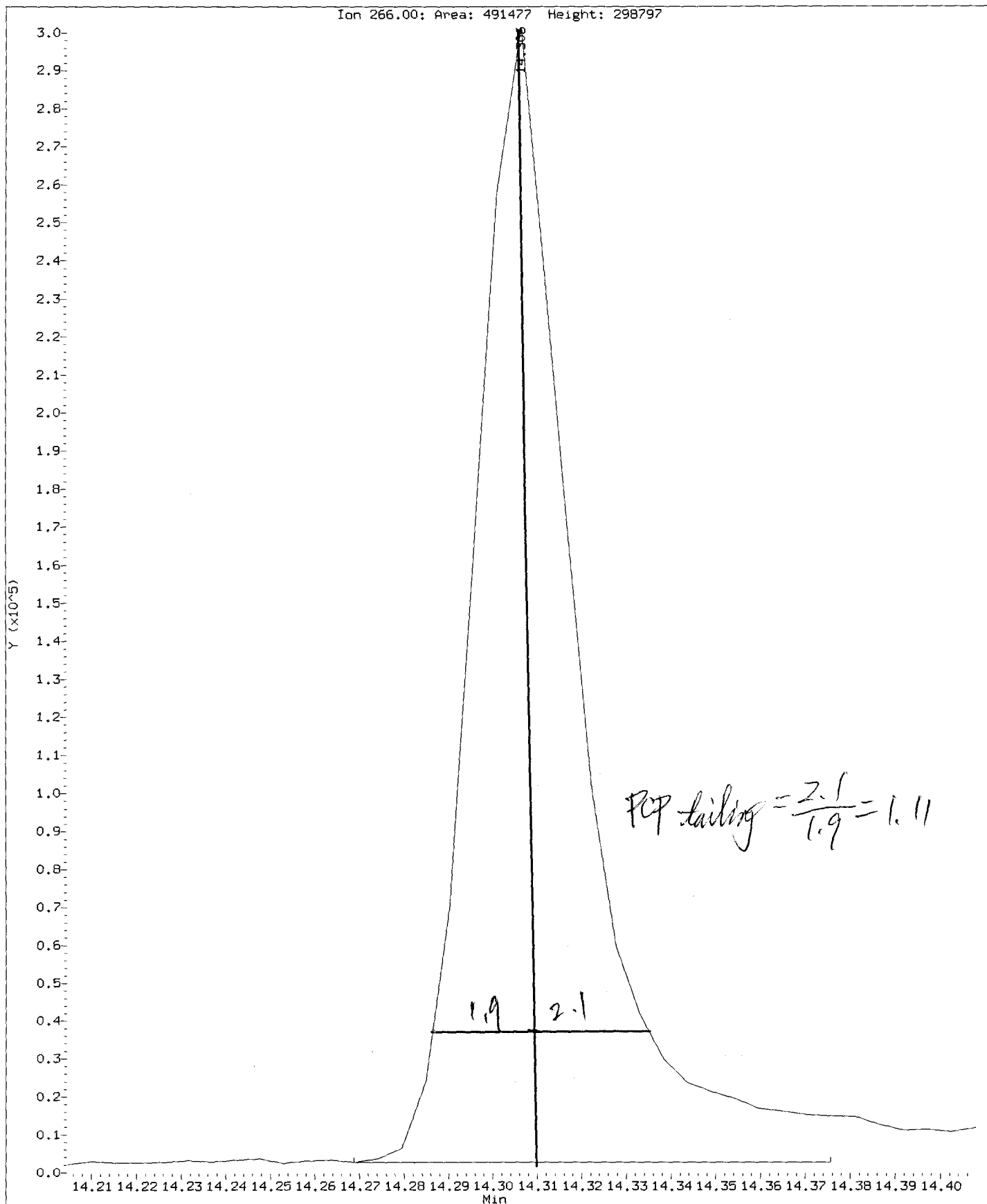
$$\text{DDT Percent Breakdown} = \frac{(0 + 26981) * 100}{(0 + 26981 + 1164099)}$$

$$\text{DDT Percent Breakdown} = 2.3 \%$$

Handwritten signature

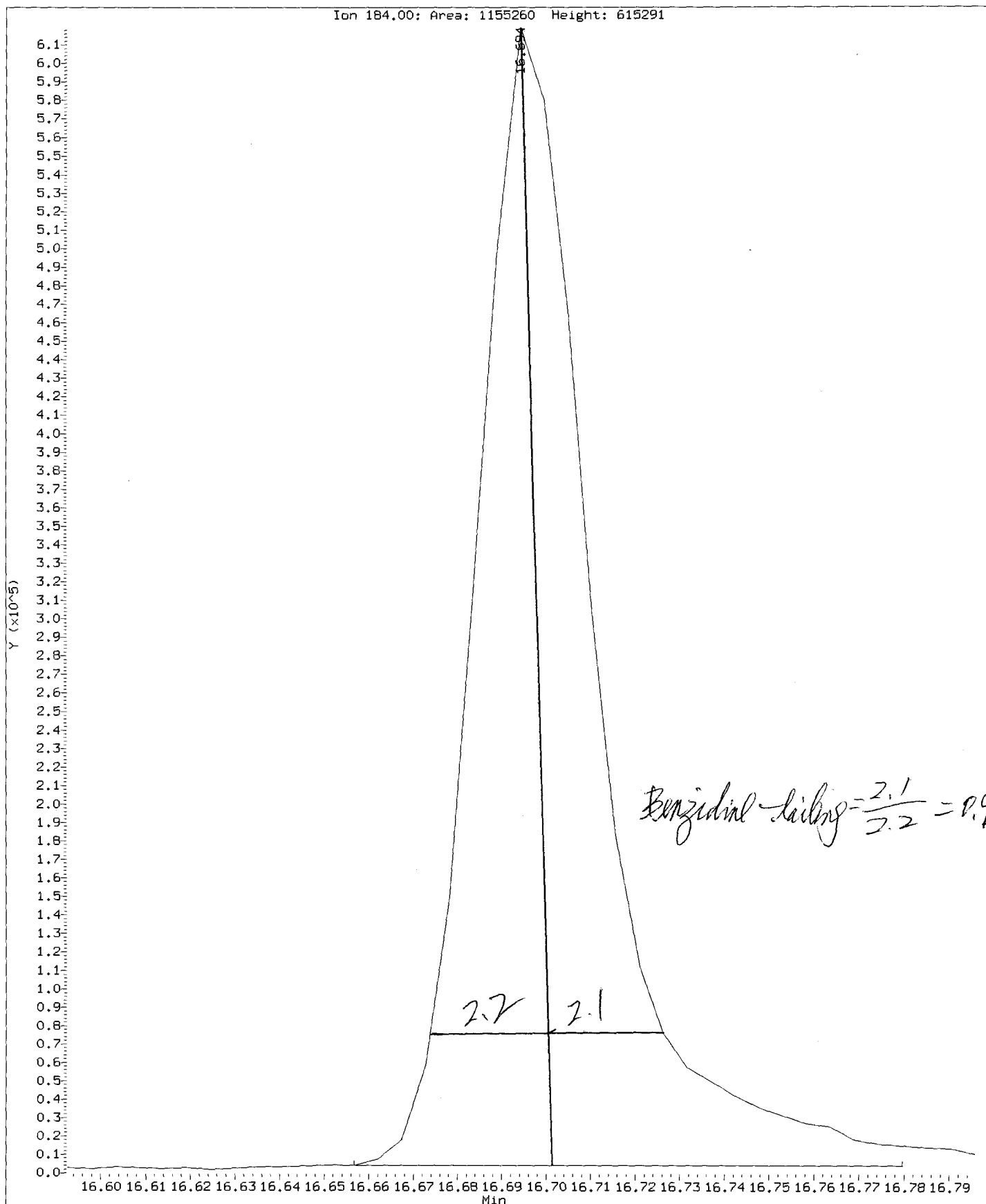
Data File: /chem2/nt6.1/20120524.b/ddt.b/05241201.D
Injection Date: 24-MAY-2012 10:50
Instrument: nt6.i
Client Sample ID: DDT0524

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem2/nt6.i/20120524.b/ddt.b/05241201.D
Injection Date: 24-MAY-2012 10:50
Instrument: nt6.i
Client Sample ID: DDT0524

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241202.D
 Lab Smp Id: UU62MBW1 Client Smp ID: UU62MBW1
 Inj Date : 24-MAY-2012 11:26
 Operator : JZ Inst ID: nt6.i
 Smp Info : UU62MBW1,
 Misc Info : 12-8937
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 17:57 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 2 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLReteneMBLCS.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.184 | 5.187 | (0.721) | 1600180 | 28.3423 | 28.34 |
| \$ 2 Phenol-d5 | 99 | 6.861 | 6.865 | (0.954) | 1850494 | 27.4811 | 27.48 |
| 3 Phenol | 94 | Compound Not Detected. | | | | | |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.904 | 6.907 | (0.960) | 1767111 | 27.0777 | 27.08 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.193 | 7.191 | (1.000) | 971489 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.492 | 7.490 | (1.042) | 704957 | 14.8117 | 14.81 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | | | | Compound Not Detected. | | |
| \$ 18 Nitrobenzene-d5 | 82 | 8.144 | 8.147 | (0.880) | 982735 | 18.1684 | 18.17 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | | | Compound Not Detected. | | |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 9.255 | 9.258 | (1.000) | 3374983 | 20.0000 | |
| 28 Naphthalene | 128 | | | | Compound Not Detected. | | |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 141 | | | | Compound Not Detected. | | |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 11.071 | 11.074 | (0.915) | 2215708 | 17.1452 | 17.15 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | | | Compound Not Detected. | | |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 12.102 | 12.105 | (1.000) | 2127525 | 20.0000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | | | Compound Not Detected. | | |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | | | Compound Not Detected. | | |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | | | Compound Not Detected. | | |
| 49 Fluorene | 166 | | | | Compound Not Detected. | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.395 | 13.398 | (1.107) | 747851 | 27.0839 | 27.08 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 14.453 | 14.456 | (1.000) | 3333166 | 20.0000 | |
| 60 Phenanthrene | 178 | | | | Compound Not Detected. | | |
| 61 Anthracene | 178 | | | | Compound Not Detected. | | |
| 62 Carbazole | 167 | | | | Compound Not Detected. | | |
| 63 Di-n-butylphthalate | 149 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|----|------------------------|--------|---------|----------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) | |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | ===== | |
| 64 Fluoranthene | 202 | | Compound Not Detected. | | | | | | |
| 65 Pyrene | 202 | | Compound Not Detected. | | | | | | |
| \$ 66 Terphenyl-d14 | 244 | | 17.108 | 17.106 | (0.914) | 2600499 | 20.2076 | 20.21 | |
| 67 Butylbenzylphthalate | 149 | | Compound Not Detected. | | | | | | |
| 68 Benzo(a)anthracene | 228 | | Compound Not Detected. | | | | | | |
| * 69 Chrysene-d12 | 240 | | 18.726 | 18.735 | (1.000) | 3717834 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | | Compound Not Detected. | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | Compound Not Detected. | | | | | | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 19.960 | 19.964 | (1.000) | 3450320 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | | Compound Not Detected. | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | Compound Not Detected. | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | | Compound Not Detected. | | | | | | |
| 76 Benzo(a)pyrene | 252 | | Compound Not Detected. | | | | | | |
| * 77 Perylene-d12 | 264 | | 20.869 | 20.872 | (1.000) | 4238968 | 20.0000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | Compound Not Detected. | | | | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | Compound Not Detected. | | | | | | |
| 80 Benzo(g,h,i)perylene | 276 | | Compound Not Detected. | | | | | | |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 141 | | Compound Not Detected. | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | Compound Not Detected. | | | | | | |
| 187 Total Benzofluoranthenes | 252 | | Compound Not Detected. | | | | | | |
| 98 Retene | 219 | | Compound Not Detected. | | | | | | |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241202.D
 Lab Smp Id: UU62MBW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: UU62MBW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 971489 | 0.80 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3374983 | -1.62 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2127525 | -5.83 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3333166 | -3.29 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3717834 | -6.15 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3450320 | -8.21 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4238968 | 2.04 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.03 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.25 | -0.03 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.03 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.02 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.05 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.02 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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: Anchor QEA, LLC. | Client SDG: UU62 |
| Sample Matrix: LIQUID | Fraction: SV |
| Lab Smp Id: UU62MBW1 | Client Smp ID: UU62MBW1 |
| Level: LOW | Operator: JZ |
| Data Type: MS DATA | SampleType: BLANK |
| SpikeList File: LLLCS.spk | Quant Type: ISTD |
| Sublist File: LLReteneMBLCS.sub | |
| Method File: /chem2/nt6.i/20120524.b/SW846052312.m | |
| Misc Info: 12-8937 | |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 37.50 | 28.34 | 75.58 | 46-100 |
| \$ 2 Phenol-d5 | 37.50 | 27.48 | 73.28 | 50-100 |
| \$ 5 2-Chlorophenol-d4 | 37.50 | 27.08 | 72.21 | 53-100 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 14.81 | 59.25 | 38-100 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 18.17 | 72.67 | 46-100 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 17.15 | 68.58 | 49-100 |
| \$ 55 2,4,6-Tribromophen | 37.50 | 27.08 | 72.22 | 52-123 |
| \$ 66 Terphenyl-d14 | 25.00 | 20.21 | 80.83 | 53-119 |

Date : 24-MAY-2012 11:26

Client ID: UU62MBW1

Sample Info: UU62MBW1,

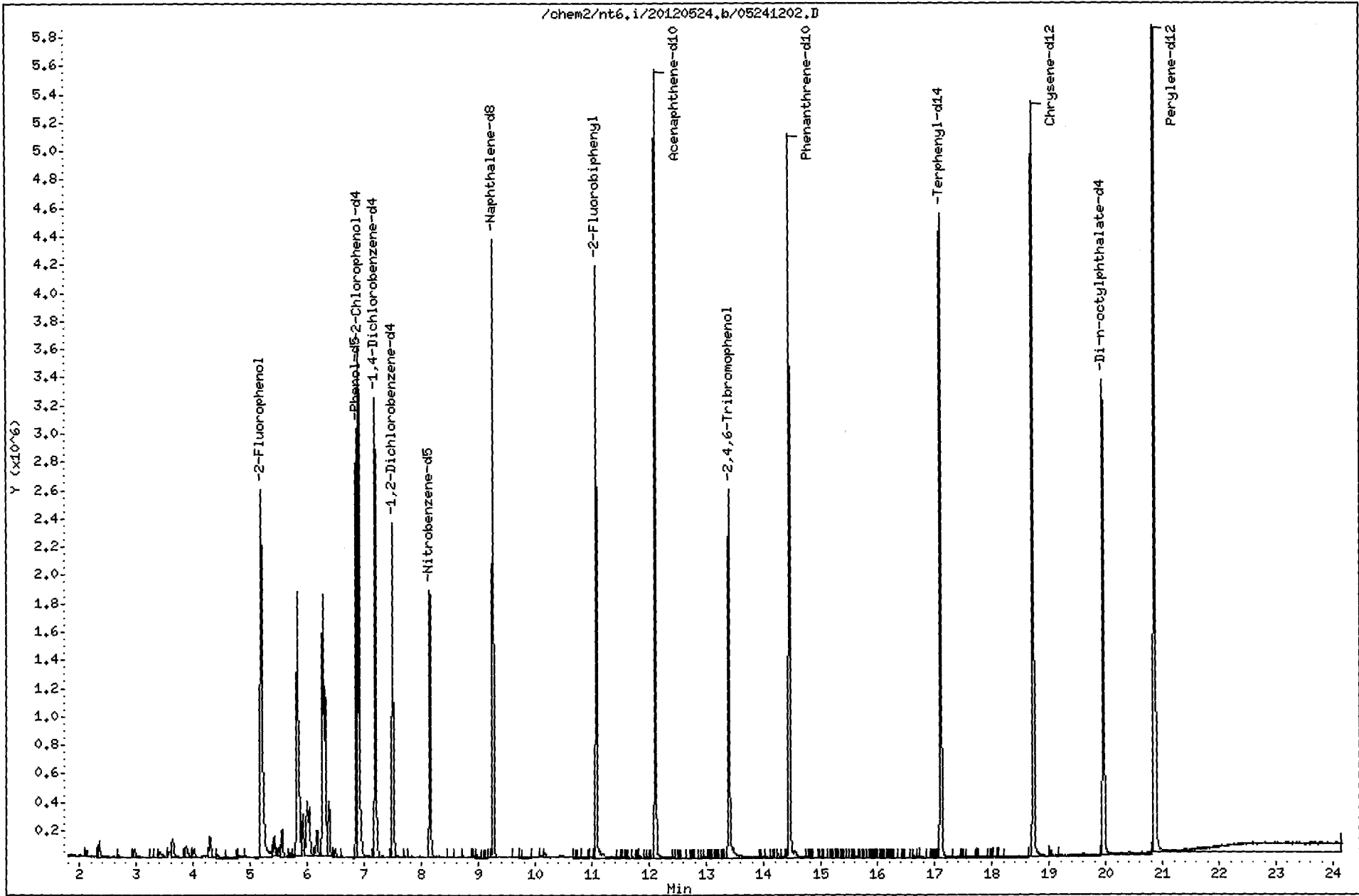
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



Analytical Resources, Inc.

Semivolatle Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241203.D
 Lab Smp Id: UU62LCSW1 Client Smp ID: UU62LCSW1
 Inj Date : 24-MAY-2012 11:59
 Operator : JZ Inst ID: nt6.i
 Smp Info : UU62LCSW1,
 Misc Info : 12-8937
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 18:14 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLReteneMBLCS.sub
 Target Version: 3.50

Handwritten: 12 05/24/12

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|-------|--------|---------|----------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.186 | 5.187 | (0.721) | 1278293 | 25.9488 | 25.95 |
| \$ 2 Phenol-d5 | 99 | 6.863 | 6.865 | (0.955) | 1671212 | 28.4445 | 28.44 |
| 3 Phenol | 94 | 6.879 | 6.881 | (0.957) | 1166615 | 16.6235 | 16.62 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.906 | 6.907 | (0.961) | 1494231 | 26.2413 | 26.24 |
| 4 Bis(2-Chloroethyl)ether | 93 | 6.890 | 6.891 | (0.958) | 874042 | 17.9354 | 17.94 |
| 6 2-Chlorophenol | 128 | 6.927 | 6.929 | (0.964) | 996166 | 15.5497 | 15.55 |
| 7 1,3-Dichlorobenzene | 146 | 7.120 | 7.121 | (0.990) | 708017 | 10.7803 | 10.78 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.189 | 7.191 | (1.000) | 847652 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.216 | 7.217 | (1.004) | 748649 | 11.4054 | 11.41 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.494 | 7.490 | (1.042) | 578529 | 13.9311 | 13.93 |
| 12 1,2-Dichlorobenzene | 146 | 7.515 | 7.516 | (1.045) | 745937 | 11.8713 | 11.87 |
| 11 Benzyl alcohol | 108 | 7.531 | 7.532 | (1.048) | 581010 | 15.8545 | 15.85 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.782 | 7.783 | (1.082) | 933746 | 17.0833 | 17.08 |
| 13 2-Methylphenol | 108 | 7.809 | 7.816 | (1.086) | 823438 | 15.3771 | 15.38 |
| 17 Hexachloroethane | 117 | 8.001 | 8.003 | (1.113) | 227851 | 9.69247 | 9.692 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.006 | 8.008 | (1.114) | 596250 | 18.1183 | 18.12 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|-------------------------------|-----------|--------|--------|---------|----------------|-------------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | 8.060 | 8.056 | (1.121) | 1775887 | 32.1160 | 32.12 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.145 | 8.147 | (0.880) | 859858 | 17.4513 | 17.45 |
| 19 Nitrobenzene | 77 | 8.177 | 8.179 | (0.883) | 853708 | 16.8528 | 16.85 |
| 20 Isophorone | 82 | 8.578 | 8.574 | (0.927) | 1466848 | 19.6852 | 19.69 |
| 21 2-Nitrophenol | 139 | 8.701 | 8.702 | (0.940) | 567595 | 15.9193 | 15.92 |
| 22 2,4-Dimethylphenol | 107 | 8.883 | 8.879 | (0.960) | 2279013 | 42.7164 | 42.72 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 9.000 | 9.002 | (0.972) | 987304 | 17.6682 | 17.67 |
| 24 Benzoic acid | 105 | 9.262 | 9.188 | (1.001) | 3381172 | 102.434 | 102.4 |
| 25 2,4-Dichlorophenol | 162 | 9.112 | 9.114 | (0.984) | 2642305 | 50.0148 | 50.01 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.208 | 9.210 | (0.995) | 696245 | 12.2715 | 12.27 |
| * 27 Naphthalene-d8 | 136 | 9.257 | 9.258 | (1.000) | 3074341 | 20.0000 | |
| 28 Naphthalene | 128 | 9.289 | 9.285 | (1.003) | 2368189 | 15.1513 | 15.15 |
| 29 4-Chloroaniline | 127 | 9.470 | 9.466 | (1.023) | 3385175 | 46.8994 | 46.90 |
| 30 Hexachlorobutadiene | 225 | 9.625 | 9.627 | (1.040) | 335553 | 9.68570 | 9.686 |
| 31 4-Chloro-3-methylphenol | 107 | 10.336 | 10.337 | (1.117) | 2374532 | 56.2062 | 56.21 |
| 32 2-Methylnaphthalene | 141 | 10.410 | 10.412 | (1.125) | 1352620 | 13.9211 | 13.92 |
| 33 Hexachlorocyclopentadiene | 237 | 10.800 | 10.796 | (0.892) | 838981 | 28.4741 | 28.47 |
| 34 2,4,6-Trichlorophenol | 196 | 10.955 | 10.957 | (0.905) | 2177917 | 56.8134 | 56.81 |
| 35 2,4,5-Trichlorophenol | 196 | 11.019 | 11.021 | (0.910) | 2241838 | 60.5360 | 60.54 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.073 | 11.074 | (0.914) | 1992532 | 17.5426 | 17.54 |
| 37 2-Chloronaphthalene | 162 | 11.185 | 11.181 | (0.924) | 1662648 | 17.0337 | 17.03 |
| 38 2-Nitroaniline | 65 | 11.452 | 11.448 | (0.946) | 1357120 | 56.6331 | 56.63 |
| 39 Dimethylphthalate | 163 | 11.842 | 11.838 | (0.978) | 2163989 | 21.8377 | 21.84 |
| 40 Acenaphthylene | 152 | 11.853 | 11.849 | (0.979) | 2792780 | 18.2854 | 18.29 |
| 41 2,6-Dinitrotoluene | 165 | 11.928 | 11.918 | (0.985) | 1568118 | 63.9658 | 63.97 |
| * 42 Acenaphthene-d10 | 164 | 12.109 | 12.105 | (1.000) | 1869892 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.136 | 12.127 | (1.002) | 1682200 | 59.9839 | 59.98 |
| 44 Acenaphthene | 153 | 12.157 | 12.153 | (1.004) | 1759153 | 17.1670 | 17.17 |
| 45 2,4-Dinitrophenol | 184 | 12.296 | 12.292 | (1.015) | 1800285 | 107.713 | 107.7 |
| 46 Dibenzofuran | 168 | 12.419 | 12.420 | (1.026) | 2524115 | 17.5845 | 17.58 |
| 47 4-Nitrophenol | 109 | 12.515 | 12.517 | (1.034) | 619871 | 62.7984 | 62.80 |
| 48 2,4-Dinitrotoluene | 165 | 12.547 | 12.538 | (1.036) | 2094094 | 66.2845 | 66.28 |
| 50 Diethylphthalate | 149 | 12.996 | 12.987 | (1.073) | 2077950 | 22.0109 | 22.01 |
| 49 Fluorene | 166 | 12.969 | 12.971 | (1.071) | 2158504 | 18.5535 | 18.55 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.017 | 13.019 | (1.075) | 1101194 | 19.2989 | 19.30 |
| 52 4-Nitroaniline | 138 | 13.135 | 13.115 | (1.085) | 1611941 | 61.0836 | 61.08 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.199 | 13.190 | (0.913) | 2608577 | 118.353 | 118.4 |
| 54 N-Nitrosodiphenylamine | 169 | 13.236 | 13.232 | (0.916) | 1435847 | 18.6350 | 18.63 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.397 | 13.398 | (1.106) | 786950 | 32.4267 | 32.43 |
| 56 4-Bromophenyl-phenylether | 248 | 13.787 | 13.788 | (0.954) | 751480 | 19.4922 | 19.49 |
| 57 Hexachlorobenzene | 284 | 13.984 | 13.986 | (0.967) | 956386 | 19.8559 | 19.86 |
| 58 Pentachlorophenol | 266 | 14.305 | 14.306 | (0.990) | 1345402 | 60.5575 | 60.56 |
| * 59 Phenanthrene-d10 | 188 | 14.454 | 14.456 | (1.000) | 3057363 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.492 | 14.493 | (1.003) | 3153509 | 19.8397 | 19.84 |
| 61 Anthracene | 178 | 14.561 | 14.563 | (1.007) | 3084959 | 19.2081 | 19.21 |
| 62 Carbazole | 167 | 14.871 | 14.873 | (1.029) | 2787154 | 22.3552 | 22.36 |
| 63 Di-n-butylphthalate | 149 | 15.624 | 15.626 | (1.081) | 3416309 | 23.1717 | 23.17 |

| Compounds | QUANT | | SIG | | | | CONCENTRATIONS | |
|-----------------------------------|-------|------------------------|--------|---------|----------|-------------------|----------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) | |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | |
| 64 Fluoranthene | 202 | 16.404 | 16.411 | (1.135) | 3680394 | 21.6416 | 21.64 | |
| 65 Pyrene | 202 | 16.752 | 16.753 | (0.894) | 3722489 | 19.2912 | 19.29 | |
| \$ 66 Terphenyl-d14 | 244 | 17.104 | 17.106 | (0.913) | 2586318 | 19.9959 | 20.00 | |
| 67 Butylbenzylphthalate | 149 | 18.012 | 18.014 | (0.962) | 1541915 | 21.0366 | 21.04 | |
| 68 Benzo (a) anthracene | 228 | 18.707 | 18.708 | (0.999) | 3595651 | 18.4224 | 18.42 | |
| * 69 Chrysene-d12 | 240 | 18.733 | 18.735 | (1.000) | 3736704 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.755 | 18.751 | (1.001) | 3780098 | 51.2504 | 51.25 | |
| 71 Chrysene | 228 | 18.771 | 18.772 | (1.002) | 3563248 | 19.8703 | 19.87 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.033 | 19.034 | (0.953) | 2116125 | 21.3033 | 21.30 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.962 | 19.964 | (1.000) | 3533231 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | 19.973 | 19.974 | (1.001) | 3567160 | 21.6028 | 21.60 | |
| 74 Benzo (b) fluoranthene | 252 | 20.352 | 20.354 | (0.975) | 3742889 | 17.6002 | 17.60 | |
| 75 Benzo (k) fluoranthene | 252 | 20.384 | 20.386 | (0.977) | 4406273 | 21.7822 | 21.78 | |
| 76 Benzo (a) pyrene | 252 | 20.785 | 20.792 | (0.996) | 3352476 | 18.1564 | 18.16 | |
| * 77 Perylene-d12 | 264 | 20.870 | 20.872 | (1.000) | 3942542 | 20.0000 | | |
| 78 Indeno (1,2,3-cd) pyrene | 276 | 22.217 | 22.223 | (1.064) | 4937628 | 18.1571 | 18.16 | |
| 79 Dibenzo (a,h) anthracene | 278 | 22.243 | 22.245 | (1.066) | 3915613 | 17.9078 | 17.91 | |
| 80 Benzo (g,h,i) perylene | 276 | 22.521 | 22.528 | (1.079) | 4370802 | 19.0539 | 19.05 | |
| 90 N-Nitrosodimethylamine | 74 | 2.280 | 2.281 | (0.317) | 1448154 | 49.3910 | 49.39 | |
| 91 Aniline | 93 | 6.756 | 6.752 | (0.940) | 1271519 | 16.4675 | 16.47 | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 141 | 10.581 | 10.577 | (1.143) | 1429054 | 19.1451 | 19.15 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.268 | 13.265 | (1.096) | 1864969 | 21.3073 | 21.31 | |
| 187 Total Benzofluoranthenes | 252 | 20.384 | 20.386 | (0.977) | 7651676 | 39.6797 | 39.68 | |
| 98 Retene | 219 | Compound Not Detected. | | | | | | |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241203.D
 Lab Smp Id: UU62LCSW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: UU62LCSW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 847652 | -12.05 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3074341 | -10.38 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 1869892 | -17.23 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3057363 | -11.30 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3736704 | -5.68 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3533231 | -6.00 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 3942542 | -5.09 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | -0.02 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | -0.02 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.03 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.01 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.01 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.01 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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: Anchor QEA, LLC. Client SDG: UU62
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: UU62LCSW1 Client Smp ID: UU62LCSW1
 Level: LOW Operator: JZ
 Data Type: MS DATA SampleType: LCS
 SpikeList File: LLRetenLCS.spk Quant Type: ISTD
 Sublist File: LLReteneMBLCS.sub
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 3 Phenol | 25.00 | 16.62 | 66.49 | 50-100 |
| 4 Bis(2-Chloroethyl) | 25.00 | 17.94 | 71.74 | 52-100 |
| 6 2-Chlorophenol | 25.00 | 15.55 | 62.20 | 56-100 |
| 7 1,3-Dichlorobenzen | 25.00 | 10.78 | 43.12 | 23-100 |
| 9 1,4-Dichlorobenzen | 25.00 | 11.41 | 45.62 | 25-100 |
| 11 Benzyl alcohol | 25.00 | 15.85 | 63.42 | 19-100 |
| 12 1,2-Dichlorobenzen | 25.00 | 11.87 | 47.49 | 30-100 |
| 13 2-Methylphenol | 25.00 | 15.38 | 61.51 | 52-100 |
| 14 2,2'-oxybis(1-Chlo | 25.00 | 17.08 | 68.33 | 32-111 |
| 15 4-Methylphenol | 50.00 | 32.12 | 64.23 | 53-102 |
| 16 N-Nitroso-di-n-pro | 25.00 | 18.12 | 72.47 | 43-104 |
| 17 Hexachloroethane | 25.00 | 9.692 | 38.77 | 12-100 |
| 19 Nitrobenzene | 25.00 | 16.85 | 67.41 | 33-125 |
| 20 Isophorone | 25.00 | 19.69 | 78.74 | 57-115 |
| 21 2-Nitrophenol | 25.00 | 15.92 | 63.68 | 56-102 |
| 22 2,4-Dimethylphenol | 75.00 | 42.72 | 56.96 | 29-100 |
| 23 Bis(2-Chloroethoxy | 25.00 | 17.67 | 70.67 | 54-101 |
| 24 Benzoic acid | 137.5 | 102.4 | 74.50 | 10-131 |
| 25 2,4-Dichlorophenol | 75.00 | 50.01 | 66.69 | 56-104 |
| 26 1,2,4-Trichloroben | 25.00 | 12.27 | 49.09 | 27-100 |
| 28 Naphthalene | 25.00 | 15.15 | 60.61 | 45-100 |
| 29 4-Chloroaniline | 75.00 | 46.90 | 62.53 | 10-139 |
| 30 Hexachlorobutadien | 25.00 | 9.686 | 38.74 | 10-100 |
| 31 4-Chloro-3-methylp | 75.00 | 56.21 | 74.94 | 53-109 |
| 32 2-Methylnaphthalen | 25.00 | 13.92 | 55.68 | 46-100 |
| 33 Hexachlorocyclopen | 75.00 | 28.47 | 37.97 | 10-100 |
| 34 2,4,6-Trichlorophe | 75.00 | 56.81 | 75.75 | 58-108 |
| 35 2,4,5-Trichlorophe | 75.00 | 60.54 | 80.71 | 58-107 |
| 37 2-Chloronaphthalen | 25.00 | 17.03 | 68.13 | 56-104 |
| 38 2-Nitroaniline | 75.00 | 56.63 | 75.51 | 50-107 |
| 39 Dimethylphthalate | 25.00 | 21.84 | 87.35 | 58-107 |
| 40 Acenaphthylene | 25.00 | 18.29 | 73.14 | 57-100 |
| 41 2,6-Dinitrotoluene | 75.00 | 63.97 | 85.29 | 58-112 |

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------|---------------------|-------------|--------|
| 43 3-Nitroaniline | 75.00 | 59.98 | 79.98 | 21-150 |
| 44 Acenaphthene | 25.00 | 17.17 | 68.67 | 51-100 |
| 45 2,4-Dinitrophenol | 137.5 | 107.7 | 78.34 | 12-169 |
| 46 Dibenzofuran | 25.00 | 17.58 | 70.34 | 57-100 |
| 47 4-Nitrophenol | 75.00 | 62.80 | 83.73 | 35-119 |
| 48 2,4-Dinitrotoluene | 75.00 | 66.28 | 88.38 | 58-117 |
| 49 Fluorene | 25.00 | 18.55 | 74.21 | 56-104 |
| 50 Diethylphthalate | 25.00 | 22.01 | 88.04 | 52-111 |
| 51 4-Chlorophenyl-phe | 25.00 | 19.30 | 77.20 | 55-104 |
| 52 4-Nitroaniline | 75.00 | 61.08 | 81.44 | 49-112 |
| 53 4,6-Dinitro-2-meth | 137.5 | 118.4 | 86.07 | 13-139 |
| 54 N-Nitrosodiphenyla | 25.00 | 18.63 | 74.54 | 60-136 |
| 56 4-Bromophenyl-phen | 25.00 | 19.49 | 77.97 | 50-103 |
| 57 Hexachlorobenzene | 25.00 | 19.86 | 79.42 | 54-106 |
| 58 Pentachlorophenol | 75.00 | 60.56 | 80.74 | 46-114 |
| 60 Phenanthrene | 25.00 | 19.84 | 79.36 | 56-102 |
| 61 Anthracene | 25.00 | 19.21 | 76.83 | 56-101 |
| 62 Carbazole | 25.00 | 22.36 | 89.42 | 60-108 |
| 63 Di-n-butylphthalat | 25.00 | 23.17 | 92.69 | 56-112 |
| 64 Fluoranthene | 25.00 | 21.64 | 86.57 | 57-110 |
| 65 Pyrene | 25.00 | 19.29 | 77.16 | 48-119 |
| 67 Butylbenzylphthala | 25.00 | 21.04 | 84.15 | 51-114 |
| 68 Benzo(a)anthracene | 25.00 | 18.42 | 73.69 | 55-105 |
| 70 3,3'-Dichlorobenzi | 75.00 | 51.25 | 68.33 | 10-128 |
| 71 Chrysene | 25.00 | 19.87 | 79.48 | 55-104 |
| 72 bis(2-Ethylhexyl)p | 25.00 | 21.30 | 85.21 | 28-164 |
| 73 Di-n-octylphthalat | 25.00 | 21.60 | 86.41 | 57-107 |
| 74 Benzo(b)fluoranthene | 25.00 | 17.60 | 70.40 | 53-112 |
| 75 Benzo(k)fluoranthene | 25.00 | 21.78 | 87.13 | 50-116 |
| 76 Benzo(a)pyrene | 25.00 | 18.16 | 72.63 | 45-103 |
| 78 Indeno(1,2,3-cd)py | 25.00 | 18.16 | 72.63 | 35-118 |
| 79 Dibenzo(a,h)anthra | 25.00 | 17.91 | 71.63 | 42-119 |
| 80 Benzo(g,h,i)perylene | 25.00 | 19.05 | 76.22 | 39-123 |
| 91 Aniline | 75.00 | 16.47 | 21.96 | 10-100 |
| 111 Azobenzene (1,2-DP | 25.00 | 21.31 | 85.23 | 57-109 |
| 90 N-Nitrosodimethyla | 75.00 | 49.39 | 65.85 | 49-100 |
| 105 1-methylnaphthalen | 25.00 | 19.15 | 76.58 | 46-100 |
| 144 alpha-Terpineol | 25.00 | 0.000 | 0.000 | 30-160 |
| 187 Total Benzofluoran | 50.00 | 39.68 | 79.36 | 30-160 |
| 98 Retene | 25.00 | 0.000 | 0.000 | 30-160 |

*not added in **
*not added in **

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---------------------|-----------------|---------------------|-------------|--------|
| \$ 1 2-Fluorophenol | 37.50 | 25.95 | 69.20 | 46-100 |

AZ 05/24/12

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 2 Phenol-d5 | 37.50 | 28.44 | 75.85 | 50-100 |
| \$ 5 2-Chlorophenol-d4 | 37.50 | 26.24 | 69.98 | 53-100 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 13.93 | 55.72 | 38-100 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 17.45 | 69.81 | 46-100 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 17.54 | 70.17 | 49-100 |
| \$ 55 2,4,6-Tribromophen | 37.50 | 32.43 | 86.47 | 52-123 |
| \$ 66 Terphenyl-d14 | 25.00 | 20.00 | 79.98 | 53-119 |

Date : 24-MAY-2012 11:59

Client ID: UU62LCSW1

Sample Info: UU62LCSW1,

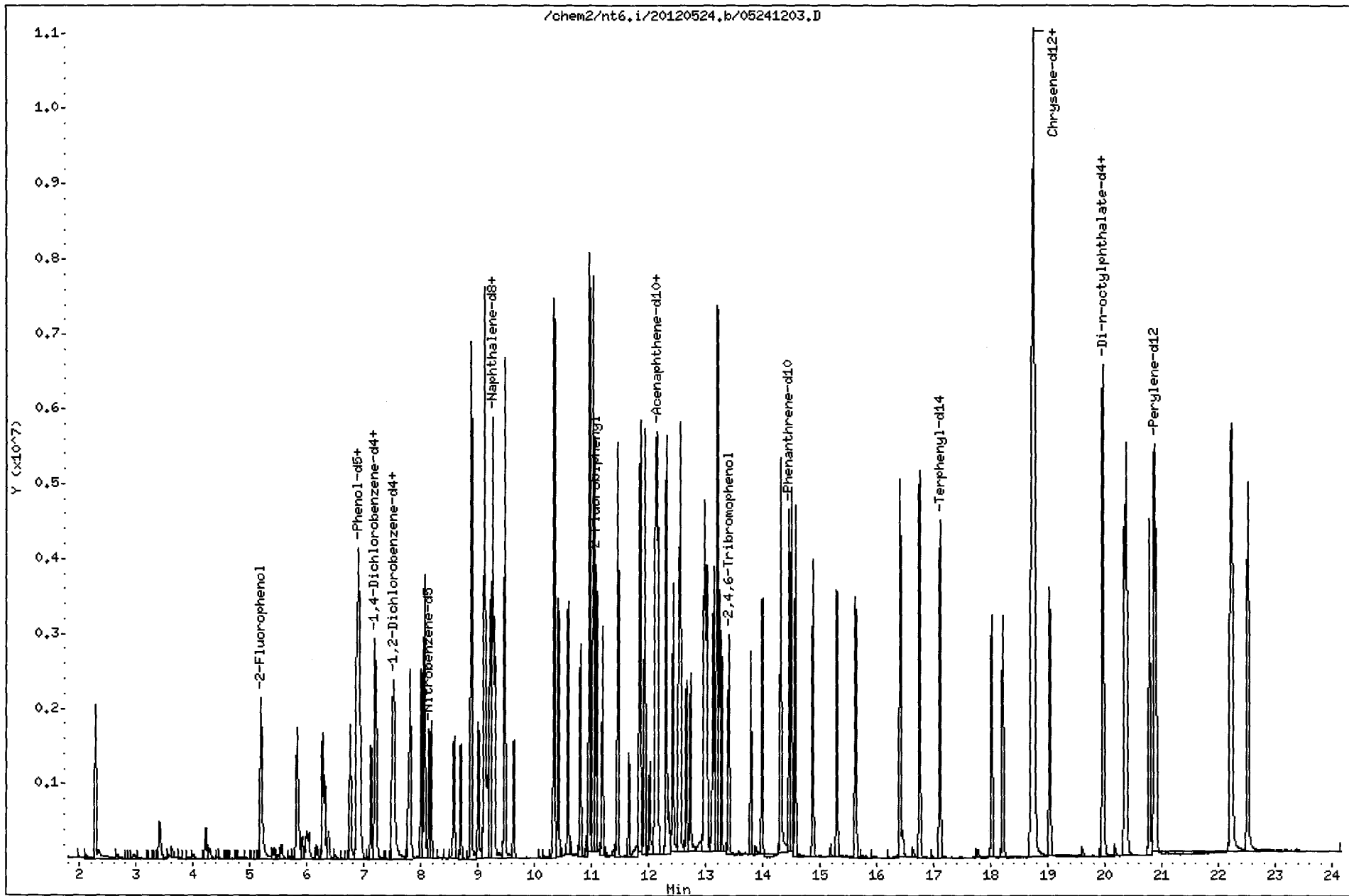
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



UU52:01131

CO-ELUTION SUMMARY FOR FILE - 05241203.D

Lab ID: UU62LCSW1, Method: SW846052312.m, Instrument: nt6.i, Date: 24-MAY-201

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241204.D
 Lab Smp Id: UU62LCSDW1 Client Smp ID: UU62LCSDW1
 Inj Date : 24-MAY-2012 12:33
 Operator : JZ Inst ID: nt6.i
 Smp Info : UU62LCSDW1,
 Misc Info : 12-8937
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 18:14 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 4 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLReteneMBLCS.sub
 Target Version: 3.50

Handwritten: 05/24/12

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|---------------------------------|-----------|-------|----------------|---------|----------|-------------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.190 | 5.187 | (0.721) | 1304531 | 24.6127 | 24.61 |
| \$ 2 Phenol-d5 | 99 | 6.862 | 6.865 | (0.954) | 1695252 | 26.8176 | 26.82 |
| 3 Phenol | 94 | 6.883 | 6.881 | (0.957) | 1217973 | 16.1306 | 16.13 |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.905 | 6.907 | (0.960) | 1515195 | 24.7318 | 24.73 |
| 4 Bis(2-Chloroethyl) ether | 93 | 6.894 | 6.891 | (0.958) | 913877 | 17.4295 | 17.43 |
| 6 2-Chlorophenol | 128 | 6.931 | 6.929 | (0.964) | 1035015 | 15.0161 | 15.02 |
| 7 1,3-Dichlorobenzene | 146 | 7.124 | 7.121 | (0.990) | 761282 | 10.7734 | 10.77 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.193 | 7.191 | (1.000) | 912008 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | 7.214 | 7.217 | (1.003) | 797708 | 11.2952 | 11.30 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.492 | 7.490 | (1.042) | 595547 | 13.3290 | 13.33 |
| 12 1,2-Dichlorobenzene | 146 | 7.514 | 7.516 | (1.045) | 811063 | 11.9970 | 12.00 |
| 11 Benzyl alcohol | 108 | 7.530 | 7.532 | (1.047) | 635938 | 16.1288 | 16.13 |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | 7.786 | 7.783 | (1.082) | 982815 | 16.7122 | 16.71 |
| 13 2-Methylphenol | 108 | 7.807 | 7.816 | (1.085) | 851561 | 14.7801 | 14.78 |
| 17 Hexachloroethane | 117 | 8.000 | 8.003 | (1.112) | 239328 | 9.46229 | 9.462 |
| 16 N-Nitroso-di-n-propylamine | 70 | 8.005 | 8.008 | (1.113) | 634158 | 17.9104 | 17.91 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|-------------------------------|-----------|--------|--------|---------|----------------|-------------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | 8.064 | 8.056 | (1.121) | 1854560 | 31.1721 | 31.17 |
| \$ 18 Nitrobenzene-d5 | 82 | 8.149 | 8.147 | (0.881) | 895115 | 16.5181 | 16.52 |
| 19 Nitrobenzene | 77 | 8.176 | 8.179 | (0.883) | 912196 | 16.3731 | 16.37 |
| 20 Isophorone | 82 | 8.582 | 8.574 | (0.927) | 1650433 | 20.1388 | 20.14 |
| 21 2-Nitrophenol | 139 | 8.700 | 8.702 | (0.940) | 605766 | 15.4479 | 15.45 |
| 22 2,4-Dimethylphenol | 107 | 8.881 | 8.879 | (0.960) | 2171343 | 37.0047 | 37.00 |
| 23 Bis(2-Chloroethoxy)methane | 93 | 8.999 | 9.002 | (0.972) | 1090463 | 17.7433 | 17.74 |
| 24 Benzoic acid | 105 | 9.271 | 9.188 | (1.002) | 3745583 | 103.176 | 103.2 |
| 25 2,4-Dichlorophenol | 162 | 9.111 | 9.114 | (0.984) | 2783619 | 47.9079 | 47.91 |
| 26 1,2,4-Trichlorobenzene | 180 | 9.207 | 9.210 | (0.995) | 773247 | 12.3918 | 12.39 |
| * 27 Naphthalene-d8 | 136 | 9.255 | 9.258 | (1.000) | 3381197 | 20.0000 | |
| 28 Naphthalene | 128 | 9.287 | 9.285 | (1.003) | 2564474 | 14.9181 | 14.92 |
| 29 4-Chloroaniline | 127 | 9.469 | 9.466 | (1.023) | 3640857 | 45.8640 | 45.86 |
| 30 Hexachlorobutadiene | 225 | 9.624 | 9.627 | (1.040) | 362095 | 9.50329 | 9.503 |
| 31 4-Chloro-3-methylphenol | 107 | 10.340 | 10.337 | (1.117) | 2572994 | 55.3766 | 55.38 |
| 32 2-Methylnaphthalene | 141 | 10.414 | 10.412 | (1.125) | 1499579 | 14.0330 | 14.03 |
| 33 Hexachlorocyclopentadiene | 237 | 10.799 | 10.796 | (0.892) | 928120 | 27.7640 | 27.76 |
| 34 2,4,6-Trichlorophenol | 196 | 10.959 | 10.957 | (0.905) | 2344202 | 53.8995 | 53.90 |
| 35 2,4,5-Trichlorophenol | 196 | 11.023 | 11.021 | (0.910) | 2489917 | 59.2618 | 59.26 |
| \$ 36 2-Fluorobiphenyl | 172 | 11.071 | 11.074 | (0.914) | 2144163 | 16.6390 | 16.64 |
| 37 2-Chloronaphthalene | 162 | 11.184 | 11.181 | (0.924) | 1858839 | 16.7853 | 16.79 |
| 38 2-Nitroaniline | 65 | 11.456 | 11.448 | (0.946) | 1554069 | 57.1614 | 57.16 |
| 39 Dimethylphthalate | 163 | 11.841 | 11.838 | (0.978) | 2482183 | 22.0783 | 22.08 |
| 40 Acenaphthylene | 152 | 11.851 | 11.849 | (0.979) | 3120303 | 18.0072 | 18.01 |
| 41 2,6-Dinitrotoluene | 165 | 11.926 | 11.918 | (0.985) | 1794524 | 64.5207 | 64.52 |
| * 42 Acenaphthene-d10 | 164 | 12.108 | 12.105 | (1.000) | 2121467 | 20.0000 | |
| 43 3-Nitroaniline | 138 | 12.140 | 12.127 | (1.003) | 1922761 | 60.4314 | 60.43 |
| 44 Acenaphthene | 153 | 12.156 | 12.153 | (1.004) | 1970113 | 16.9458 | 16.95 |
| 45 2,4-Dinitrophenol | 184 | 12.300 | 12.292 | (1.016) | 2059328 | 108.459 | 108.5 |
| 46 Dibenzofuran | 168 | 12.418 | 12.420 | (1.026) | 2806390 | 17.2326 | 17.23 |
| 47 4-Nitrophenol | 109 | 12.519 | 12.517 | (1.034) | 706262 | 63.0658 | 63.07 |
| 48 2,4-Dinitrotoluene | 165 | 12.546 | 12.538 | (1.036) | 2393238 | 66.7701 | 66.77 |
| 50 Diethylphthalate | 149 | 12.995 | 12.987 | (1.073) | 2392727 | 22.3397 | 22.34 |
| 49 Fluorene | 166 | 12.968 | 12.971 | (1.071) | 2411472 | 18.2699 | 18.27 |
| 51 4-Chlorophenyl-phenylether | 204 | 13.016 | 13.019 | (1.075) | 1238941 | 19.1381 | 19.14 |
| 52 4-Nitroaniline | 138 | 13.139 | 13.115 | (1.085) | 1812028 | 60.5230 | 60.52 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 13.198 | 13.190 | (0.913) | 2971763 | 120.717 | 120.7 |
| 54 N-Nitrosodiphenylamine | 169 | 13.235 | 13.232 | (0.915) | 1633530 | 18.9814 | 18.98 |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.401 | 13.398 | (1.107) | 869638 | 31.5845 | 31.58 |
| 56 4-Bromophenyl-phenylether | 248 | 13.785 | 13.788 | (0.953) | 852276 | 19.7926 | 19.79 |
| 57 Hexachlorobenzene | 284 | 13.983 | 13.986 | (0.967) | 1089333 | 20.2487 | 20.25 |
| 58 Pentachlorophenol | 266 | 14.303 | 14.306 | (0.989) | 1557483 | 62.5020 | 62.50 |
| * 59 Phenanthrene-d10 | 188 | 14.458 | 14.456 | (1.000) | 3414818 | 20.0000 | |
| 60 Phenanthrene | 178 | 14.490 | 14.493 | (1.002) | 3535942 | 19.9171 | 19.92 |
| 61 Anthracene | 178 | 14.565 | 14.563 | (1.007) | 3479464 | 19.3967 | 19.40 |
| 62 Carbazole | 167 | 14.870 | 14.873 | (1.028) | 3072344 | 22.0631 | 22.06 |
| 63 Di-n-butylphthalate | 149 | 15.623 | 15.626 | (1.081) | 3838820 | 23.3119 | 23.31 |

| Compounds | QUANT | | SIG | | | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|------------------------|--------|---------|-------------------|----------|----------------|--|
| | MASS | RT | EXP RT | REL RT | ON-COLUMN (ug/mL) | | FINAL (ug/L) | |
| 64 Fluoranthene | 202 | 16.408 | 16.411 | (1.135) | 4044962 | 21.2955 | 21.30 | |
| 65 Pyrene | 202 | 16.750 | 16.753 | (0.894) | 4077719 | 19.9244 | 19.92 | |
| \$ 66 Terphenyl-d14 | 244 | 17.103 | 17.106 | (0.913) | 2768074 | 20.1780 | 20.18 | |
| 67 Butylbenzylphthalate | 149 | 18.016 | 18.014 | (0.962) | 1676831 | 21.5698 | 21.57 | |
| 68 Benzo(a)anthracene | 228 | 18.705 | 18.708 | (0.999) | 3848908 | 18.5929 | 18.59 | |
| * 69 Chrysene-d12 | 240 | 18.732 | 18.735 | (1.000) | 3963208 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 18.753 | 18.751 | (1.001) | 3906431 | 49.9362 | 49.94 | |
| 71 Chrysene | 228 | 18.769 | 18.772 | (1.002) | 3796433 | 19.9607 | 19.96 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 19.031 | 19.034 | (0.953) | 2291366 | 21.5933 | 21.59 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 19.961 | 19.964 | (1.000) | 3774442 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | 19.971 | 19.974 | (1.001) | 3798553 | 21.5340 | 21.53 | |
| 74 Benzo(b)fluoranthene | 252 | 20.351 | 20.354 | (0.975) | 4351552 | 19.0587 | 19.06 | |
| 75 Benzo(k)fluoranthene | 252 | 20.383 | 20.386 | (0.977) | 4299400 | 19.7959 | 19.80 | |
| 76 Benzo(a)pyrene | 252 | 20.789 | 20.792 | (0.996) | 3594400 | 18.1313 | 18.13 | |
| * 77 Perylene-d12 | 264 | 20.869 | 20.872 | (1.000) | 4232897 | 20.0000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 22.215 | 22.223 | (1.064) | 5530454 | 18.9420 | 18.94 | |
| 79 Dibenzo(a,h)anthracene | 278 | 22.242 | 22.245 | (1.066) | 4497164 | 19.1567 | 19.16 | |
| 80 Benzo(g,h,i)perylene | 276 | 22.525 | 22.528 | (1.079) | 4787532 | 19.4389 | 19.44 | |
| 90 N-Nitrosodimethylamine | 74 | 2.289 | 2.281 | (0.318) | 1506032 | 47.7404 | 47.74 | |
| 91 Aniline | 93 | 6.755 | 6.752 | (0.939) | 1767086 | 21.2706 | 21.27 | |
| 93 Benzidine | 184 | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 141 | 10.580 | 10.577 | (1.143) | 1576761 | 19.2069 | 19.21 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 13.267 | 13.265 | (1.096) | 2093535 | 21.0823 | 21.08 | |
| 187 Total Benzofluoranthenes | 252 | 20.383 | 20.386 | (0.977) | 8119509 | 39.2175 | 39.22 | |
| 98 Retene | 219 | Compound Not Detected. | | | | | | |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241204.D
 Lab Smp Id: UU62LCSDW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: UU62LCSDW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 912008 | -5.37 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3381197 | -1.44 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2121467 | -6.10 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3414818 | -0.92 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3963208 | 0.04 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3774442 | 0.42 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4232897 | 1.90 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.04 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | -0.03 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.11 | 0.02 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.46 | 0.02 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.01 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.01 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.87 | -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: Anchor QEA, LLC. Client SDG: UU62
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: UU62LCSDW1 Client Smp ID: UU62LCSDW1
 Level: LOW Operator: JZ
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: LLRetenLCS.spk Quant Type: ISTD
 Sublist File: LLReteneMBLCS.sub
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 3 Phenol | 25.00 | 16.13 | 64.52 | 50-100 |
| 4 Bis(2-Chloroethyl) | 25.00 | 17.43 | 69.72 | 52-100 |
| 6 2-Chlorophenol | 25.00 | 15.02 | 60.06 | 56-100 |
| 7 1,3-Dichlorobenzen | 25.00 | 10.77 | 43.09 | 23-100 |
| 9 1,4-Dichlorobenzen | 25.00 | 11.30 | 45.18 | 25-100 |
| 11 Benzyl alcohol | 25.00 | 16.13 | 64.52 | 19-100 |
| 12 1,2-Dichlorobenzen | 25.00 | 12.00 | 47.99 | 30-100 |
| 13 2-Methylphenol | 25.00 | 14.78 | 59.12 | 52-100 |
| 14 2,2'-oxybis(1-Chlo | 25.00 | 16.71 | 66.85 | 32-111 |
| 15 4-Methylphenol | 50.00 | 31.17 | 62.34 | 53-102 |
| 16 N-Nitroso-di-n-pro | 25.00 | 17.91 | 71.64 | 43-104 |
| 17 Hexachloroethane | 25.00 | 9.462 | 37.85 | 12-100 |
| 19 Nitrobenzene | 25.00 | 16.37 | 65.49 | 33-125 |
| 20 Isophorone | 25.00 | 20.14 | 80.56 | 57-115 |
| 21 2-Nitrophenol | 25.00 | 15.45 | 61.79 | 56-102 |
| 22 2,4-Dimethylphenol | 75.00 | 37.00 | 49.34 | 29-100 |
| 23 Bis(2-Chloroethoxy | 25.00 | 17.74 | 70.97 | 54-101 |
| 24 Benzoic acid | 137.5 | 103.2 | 75.04 | 10-131 |
| 25 2,4-Dichlorophenol | 75.00 | 47.91 | 63.88 | 56-104 |
| 26 1,2,4-Trichloroben | 25.00 | 12.39 | 49.57 | 27-100 |
| 28 Naphthalene | 25.00 | 14.92 | 59.67 | 45-100 |
| 29 4-Chloroaniline | 75.00 | 45.86 | 61.15 | 10-139 |
| 30 Hexachlorobutadien | 25.00 | 9.503 | 38.01 | 10-100 |
| 31 4-Chloro-3-methylp | 75.00 | 55.38 | 73.84 | 53-109 |
| 32 2-Methylnaphthalen | 25.00 | 14.03 | 56.13 | 46-100 |
| 33 Hexachlorocyclopen | 75.00 | 27.76 | 37.02 | 10-100 |
| 34 2,4,6-Trichlorophe | 75.00 | 53.90 | 71.87 | 58-108 |
| 35 2,4,5-Trichlorophe | 75.00 | 59.26 | 79.02 | 58-107 |
| 37 2-Chloronaphthalen | 25.00 | 16.79 | 67.14 | 56-104 |
| 38 2-Nitroaniline | 75.00 | 57.16 | 76.22 | 50-107 |
| 39 Dimethylphthalate | 25.00 | 22.08 | 88.31 | 58-107 |
| 40 Acenaphthylene | 25.00 | 18.01 | 72.03 | 57-100 |
| 41 2,6-Dinitrotoluene | 75.00 | 64.52 | 86.03 | 58-112 |

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|-------------------------|-----------------------|---------------------------|----------------|--------|
| 43 3-Nitroaniline | 75.00 | 60.43 | 80.58 | 21-150 |
| 44 Acenaphthene | 25.00 | 16.95 | 67.78 | 51-100 |
| 45 2,4-Dinitrophenol | 137.5 | 108.5 | 78.88 | 12-169 |
| 46 Dibenzofuran | 25.00 | 17.23 | 68.93 | 57-100 |
| 47 4-Nitrophenol | 75.00 | 63.07 | 84.09 | 35-119 |
| 48 2,4-Dinitrotoluene | 75.00 | 66.77 | 89.03 | 58-117 |
| 49 Fluorene | 25.00 | 18.27 | 73.08 | 56-104 |
| 50 Diethylphthalate | 25.00 | 22.34 | 89.36 | 52-111 |
| 51 4-Chlorophenyl-phe | 25.00 | 19.14 | 76.55 | 55-104 |
| 52 4-Nitroaniline | 75.00 | 60.52 | 80.70 | 49-112 |
| 53 4,6-Dinitro-2-meth | 137.5 | 120.7 | 87.79 | 13-139 |
| 54 N-Nitrosodiphenyla | 25.00 | 18.98 | 75.93 | 60-136 |
| 56 4-Bromophenyl-phen | 25.00 | 19.79 | 79.17 | 50-103 |
| 57 Hexachlorobenzene | 25.00 | 20.25 | 80.99 | 54-106 |
| 58 Pentachlorophenol | 75.00 | 62.50 | 83.34 | 46-114 |
| 60 Phenanthrene | 25.00 | 19.92 | 79.67 | 56-102 |
| 61 Anthracene | 25.00 | 19.40 | 77.59 | 56-101 |
| 62 Carbazole | 25.00 | 22.06 | 88.25 | 60-108 |
| 63 Di-n-butylphthalat | 25.00 | 23.31 | 93.25 | 56-112 |
| 64 Fluoranthene | 25.00 | 21.30 | 85.18 | 57-110 |
| 65 Pyrene | 25.00 | 19.92 | 79.70 | 48-119 |
| 67 Butylbenzylphthala | 25.00 | 21.57 | 86.28 | 51-114 |
| 68 Benzo(a)anthracene | 25.00 | 18.59 | 74.37 | 55-105 |
| 70 3,3'-Dichlorobenzi | 75.00 | 49.94 | 66.58 | 10-128 |
| 71 Chrysene | 25.00 | 19.96 | 79.84 | 55-104 |
| 72 bis(2-Ethylhexyl)p | 25.00 | 21.59 | 86.37 | 28-164 |
| 73 Di-n-octylphthalat | 25.00 | 21.53 | 86.14 | 57-107 |
| 74 Benzo(b)fluoranthene | 25.00 | 19.06 | 76.23 | 53-112 |
| 75 Benzo(k)fluoranthene | 25.00 | 19.80 | 79.18 | 50-116 |
| 76 Benzo(a)pyrene | 25.00 | 18.13 | 72.53 | 45-103 |
| 78 Indeno(1,2,3-cd)py | 25.00 | 18.94 | 75.77 | 35-118 |
| 79 Dibenzo(a,h)anthra | 25.00 | 19.16 | 76.63 | 42-119 |
| 80 Benzo(g,h,i)perylene | 25.00 | 19.44 | 77.76 | 39-123 |
| 91 Aniline | 75.00 | 21.27 | 28.36 | 10-100 |
| 111 Azobenzene (1,2-DP | 25.00 | 21.08 | 84.33 | 57-109 |
| 90 N-Nitrosodimethyla | 75.00 | 47.74 | 63.65 | 49-100 |
| 105 1-methylnaphthalen | 25.00 | 19.21 | 76.83 | 46-100 |
| 144 alpha-Terpineol | 25.00 | 0.000 | not added in * | 30-160 |
| 187 Total Benzofluoran | 50.00 | 39.22 | 78.44 | 30-160 |
| 98 Retene | 25.00 | 0.000 | not added in * | 30-160 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---------------------|-----------------------|---------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 37.50 | 24.61 | 65.63 | 46-100 |

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| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 2 Phenol-d5 | 37.50 | 26.82 | 71.51 | 50-100 |
| \$ 5 2-Chlorophenol-d4 | 37.50 | 24.73 | 65.95 | 53-100 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 13.33 | 53.32 | 38-100 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 16.52 | 66.07 | 46-100 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 16.64 | 66.56 | 49-100 |
| \$ 55 2,4,6-Tribromophen | 37.50 | 31.58 | 84.23 | 52-123 |
| \$ 66 Terphenyl-d14 | 25.00 | 20.18 | 80.71 | 53-119 |

Date : 24-MAY-2012 12:33

Client ID: UU62LCSDW1

Sample Info: UU62LCSDW1,

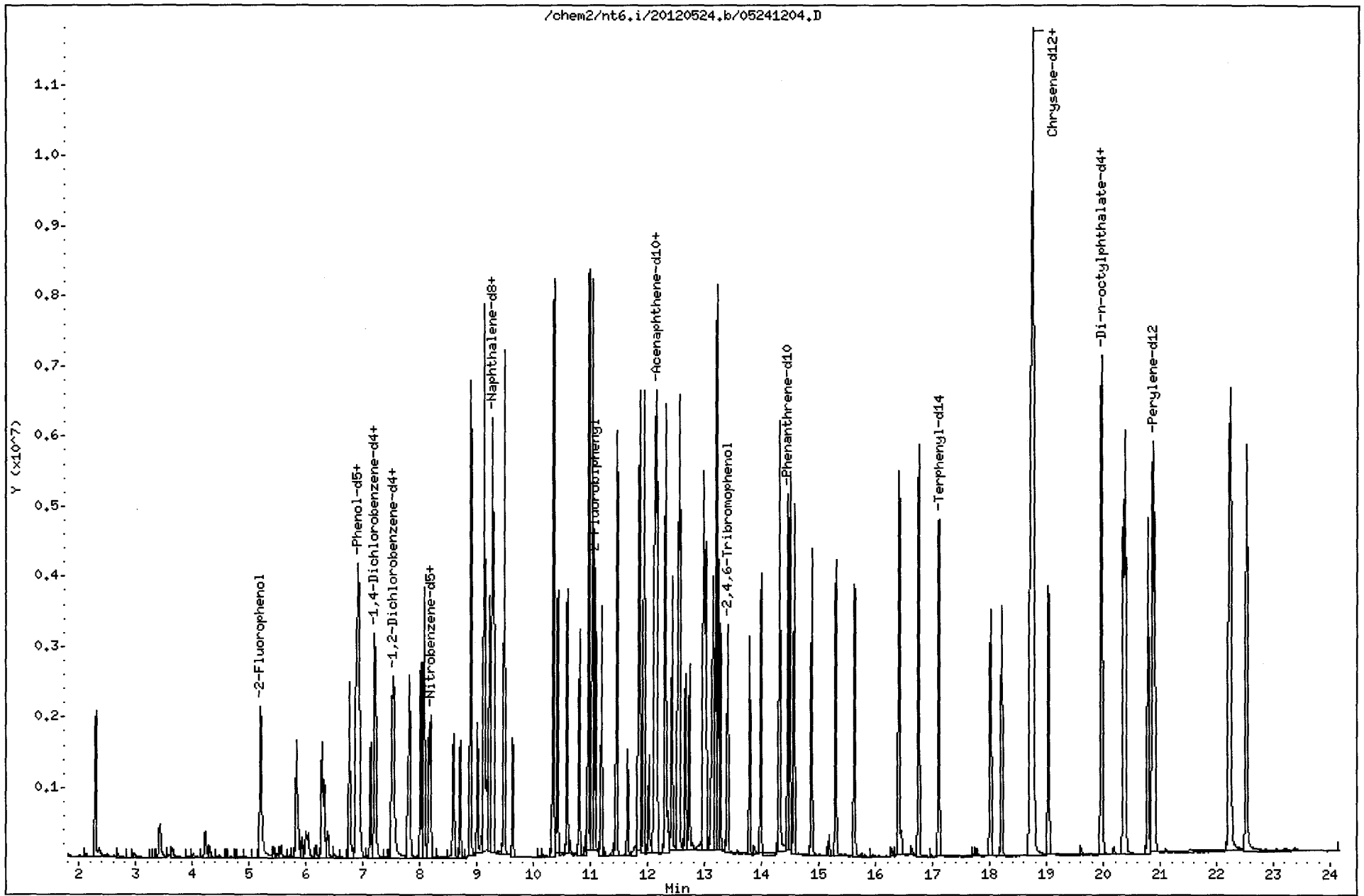
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



UU62:01140

CO-ELUTION SUMMARY FOR FILE - 05241204.D

Lab ID: UU62LCSDW1, Method: SW846052312.m, Instrument: nt6.i, Date: 24-MAY-20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241206.D
 Lab Smp Id: UU62J Client Smp ID: MS-SSRB-120515
 Inj Date : 24-MAY-2012 13:40
 Operator : JZ Inst ID: nt6.i
 Smp Info : UU62J
 Misc Info : 12-8937
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 18:14 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLReten.sub
 Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * \text{Vt}/\text{Vo} * \text{CpndVariable}$

Handwritten signature and date: J 05/24/12

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|------------------------|--------|---------|----------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.189 | 5.187 | (0.721) | 1489975 | 28.6010 | 28.60 |
| \$ 2 Phenol-d5 | 99 | 6.861 | 6.865 | (0.954) | 1703055 | 27.4101 | 27.41 |
| 3 Phenol | 94 | Compound Not Detected. | | | | | |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.904 | 6.907 | (0.960) | 1646833 | 27.3484 | 27.35 |
| 4 Bis(2-Chloroethyl)ether | 93 | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.193 | 7.191 | (1.000) | 896401 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.492 | 7.490 | (1.042) | 657794 | 14.9784 | 14.98 |
| 12 1,2-Dichlorobenzene | 146 | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | | | | Compound Not Detected. | | |
| \$ 18 Nitrobenzene-d5 | 82 | 8.144 | 8.147 | (0.880) | 931594 | 18.2899 | 18.29 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | | | Compound Not Detected. | | |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 9.255 | 9.258 | (1.000) | 3178107 | 20.0000 | |
| 28 Naphthalene | 128 | | | | Compound Not Detected. | | |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 141 | | | | Compound Not Detected. | | |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 11.071 | 11.074 | (0.915) | 2071460 | 16.9097 | 16.91 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | Compound Not Detected. | | |
| 40 Acenaphthylene | 152 | | | | Compound Not Detected. | | |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 12.102 | 12.105 | (1.000) | 2016726 | 20.0000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | | | Compound Not Detected. | | |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | | | Compound Not Detected. | | |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | 12.978 | 12.987 | (1.072) | 97873 | 0.96125 | 0.9612 |
| 49 Fluorene | 166 | | | | Compound Not Detected. | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.395 | 13.398 | (1.107) | 772438 | 29.5113 | 29.51 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 14.453 | 14.456 | (1.000) | 3170811 | 20.0000 | |
| 60 Phenanthrene | 178 | | | | Compound Not Detected. | | |
| 61 Anthracene | 178 | | | | Compound Not Detected. | | |
| 62 Carbazole | 167 | | | | Compound Not Detected. | | |
| 63 Di-n-butylphthalate | 149 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--|--------|--------|---------|------------------------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) | |
| 64 Fluoranthene | 202 | | | | | Compound Not Detected. | | | |
| 65 Pyrene | 202 | | | | | Compound Not Detected. | | | |
| \$ 66 Terphenyl-d14 | 244 | | 17.108 | 17.106 | (0.914) | 2702763 | 20.7374 | 20.74 | |
| 67 Butylbenzylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 68 Benzo(a)anthracene | 228 | | | | | Compound Not Detected. | | | |
| * 69 Chrysene-d12 | 240 | | 18.726 | 18.735 | (1.000) | 3765318 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | Compound Not Detected. | | | |
| 71 Chrysene | 228 | | | | | Compound Not Detected. | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | | | | Compound Not Detected. | | | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 19.960 | 19.964 | (1.000) | 3520284 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 76 Benzo(a)pyrene | 252 | | | | | Compound Not Detected. | | | |
| * 77 Perylene-d12 | 264 | | 20.863 | 20.872 | (1.000) | 4272719 | 20.0000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | | | | Compound Not Detected. | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | | Compound Not Detected. | | | |
| 80 Benzo(g,h,i)perylene | 276 | | | | | Compound Not Detected. | | | |
| 90 N-Nitrosodimethylamine | 74 | | | | | Compound Not Detected. | | | |
| 91 Aniline | 93 | | | | | Compound Not Detected. | | | |
| 93 Benzidine | 184 | | | | | Compound Not Detected. | | | |
| 103 Pyridine | 79 | | | | | Compound Not Detected. | | | |
| 105 1-methylnaphthalene | 141 | | | | | Compound Not Detected. | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | Compound Not Detected. | | | |
| 187 Total Benzofluoranthenes | 252 | | | | | Compound Not Detected. | | | |
| 98 Retene | 219 | | | | | Compound Not Detected. | | | |

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241206.D
 Lab Smp Id: UU62J
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8937

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: MS-SSRB-120515
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 896401 | -6.99 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3178107 | -7.36 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2016726 | -10.73 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3170811 | -8.00 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3765318 | -4.95 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3520284 | -6.34 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4272719 | 2.86 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.03 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.25 | -0.03 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.03 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.02 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.05 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.02 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.86 | -0.04 |

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.

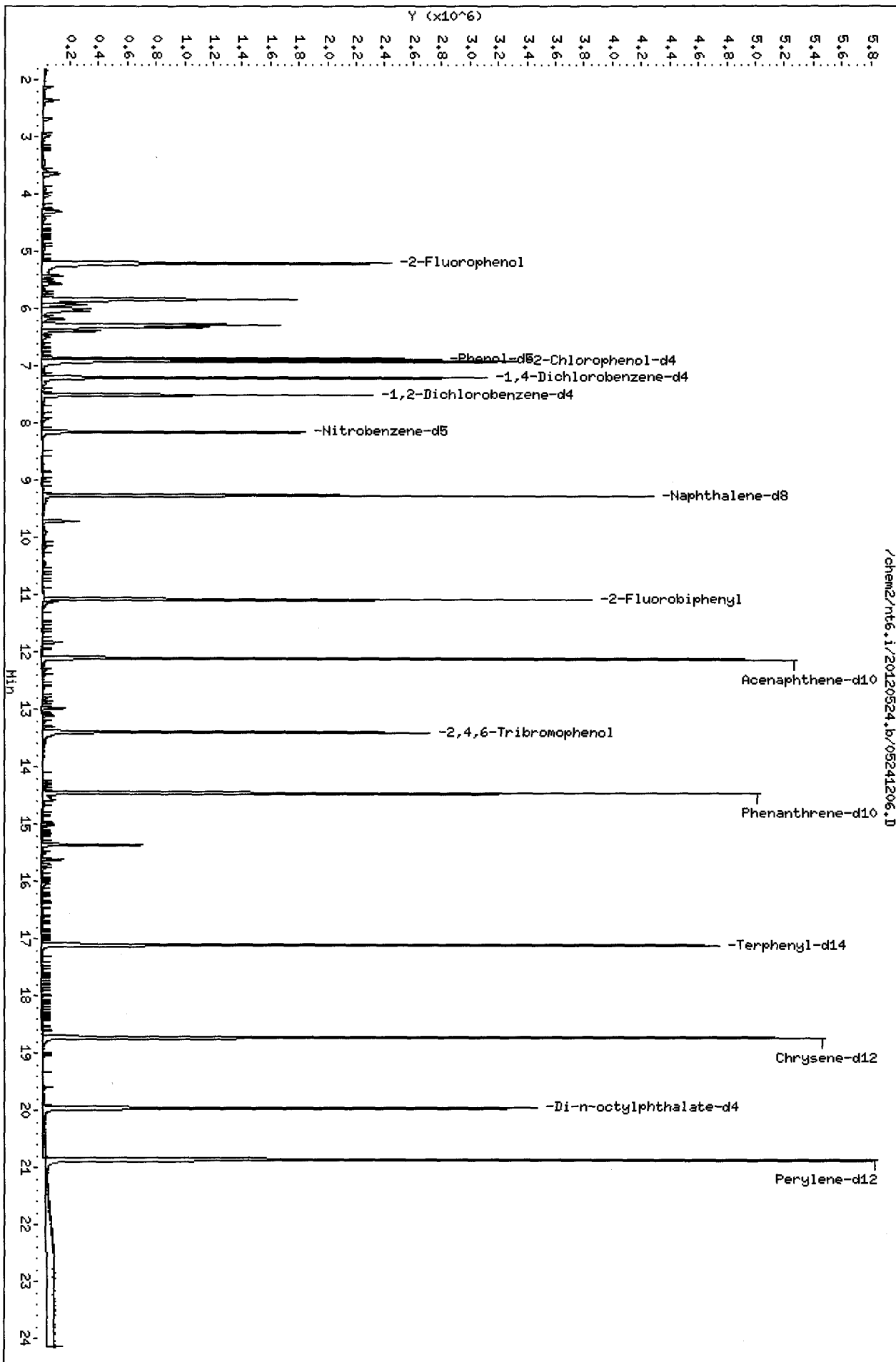
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC.
Sample Matrix: LIQUID
Lab Smp Id: UU62J
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: LLReten.sub
Method File: /chem2/nt6.i/20120524.b/SW846052312.m
Misc Info: 12-8937

Client SDG: UU62
Fraction: SV
Client Smp ID: MS-SSRB-120515
Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 37.50 | 28.60 | 76.27 | 38-100 |
| \$ 2 Phenol-d5 | 37.50 | 27.41 | 73.09 | 41-100 |
| \$ 5 2-Chlorophenol-d4 | 37.50 | 27.35 | 72.93 | 44-100 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 14.98 | 59.91 | 32-100 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 18.29 | 73.16 | 39-100 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 16.91 | 67.64 | 42-100 |
| \$ 55 2,4,6-Tribromophen | 37.50 | 29.51 | 78.70 | 48-118 |
| \$ 66 Terphenyl-d14 | 25.00 | 20.74 | 82.95 | 28-121 |



Date : 24-MAY-2012 13:40

Client ID: MS-SSRB-120515

Instrument: nt6.i

Sample Info: UU62J

Volume Injected (uL): 1.0

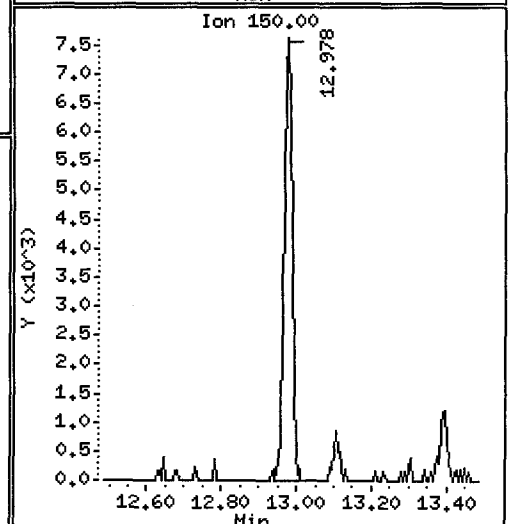
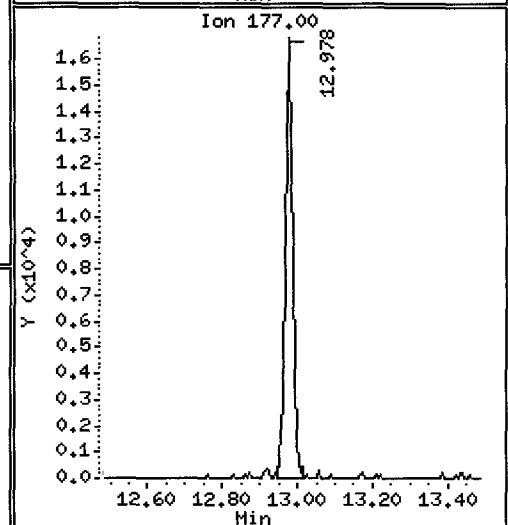
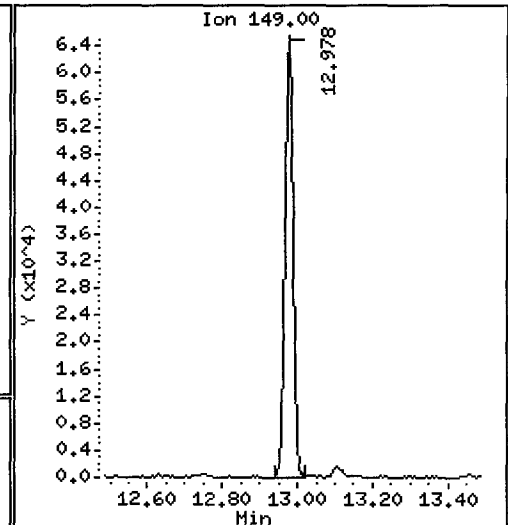
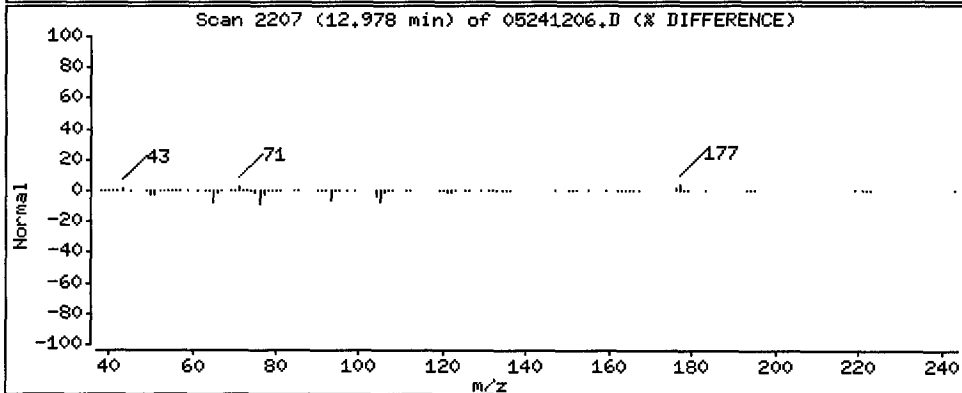
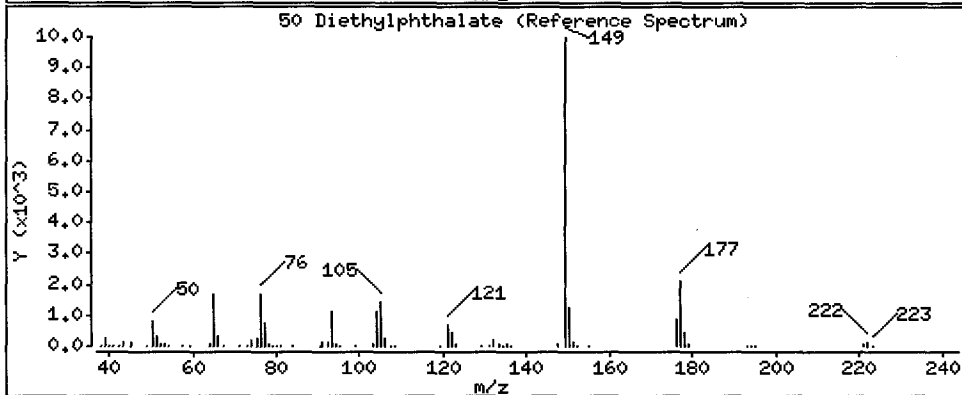
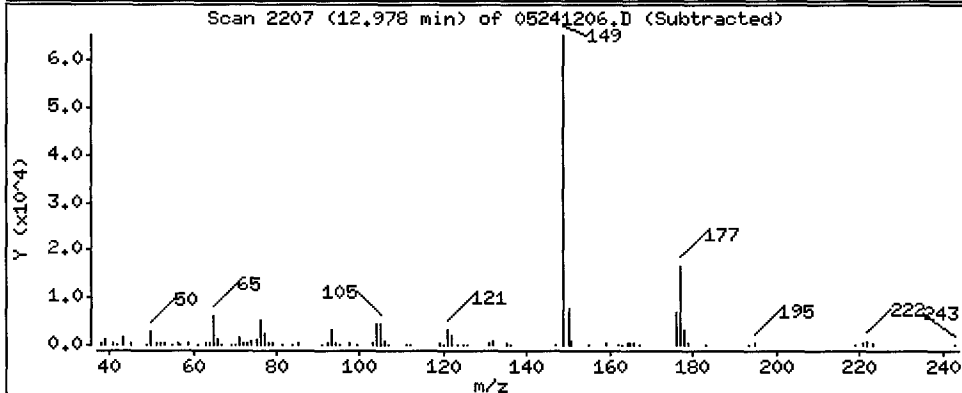
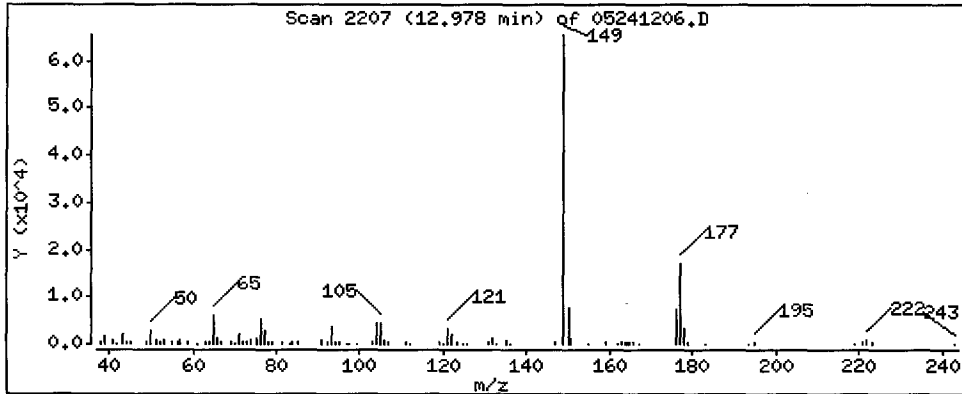
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 0.9612 ug/L



CO-ELUTION SUMMARY FOR FILE - 05241206.D

Lab ID: UU62J, Method: SW846052312.m, Instrument: nt6.i, Date: 24-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem2/nt6.i/20120524.b/05241207.D
 Lab Smp Id: UU62K Client Smp ID: MS-SSFB-120515
 Inj Date : 24-MAY-2012 14:14
 Operator : JZ Inst ID: nt6.i
 Smp Info : UU62K
 Misc Info : 12-8938
 Comment : 1ul Injection
 Method : /chem2/nt6.i/20120524.b/SW846052312.m
 Meth Date : 24-May-2012 18:14 jianqing Quant Type: ISTD
 Cal Date : 23-MAY-2012 16:56 Cal File: 05231207.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLReten.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

| Name | Value | Description |
|------|-----------|---------------------------------|
| DF | 1.00000 | Dilution Factor |
| Vt | 500.00000 | Volume of final extract (uL) |
| Vo | 500.00000 | Volume of sample extracted (mL) |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-----------|-------|--------|---------|------------------------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | 5.190 | 5.187 | (0.722) | 1417828 | 25.7346 | 25.73 |
| \$ 2 Phenol-d5 | 99 | 6.862 | 6.865 | (0.954) | 1718783 | 26.1575 | 26.16 |
| 3 Phenol | 94 | | | | Compound Not Detected. | | |
| \$ 5 2-Chlorophenol-d4 | 132 | 6.905 | 6.907 | (0.960) | 1640665 | 25.7629 | 25.76 |
| 4 Bis(2-Chloroethyl)ether | 93 | | | | Compound Not Detected. | | |
| 6 2-Chlorophenol | 128 | | | | Compound Not Detected. | | |
| 7 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | 7.193 | 7.191 | (1.000) | 948003 | 20.0000 | |
| 9 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | 7.493 | 7.490 | (1.042) | 665537 | 14.3299 | 14.33 |
| 12 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 11 Benzyl alcohol | 108 | | | | Compound Not Detected. | | |
| 14 2,2'-oxybis(1-Chloropropane) | 45 | | | | Compound Not Detected. | | |
| 13 2-Methylphenol | 108 | | | | Compound Not Detected. | | |
| 17 Hexachloroethane | 117 | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|------------------------|-------------------|--------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 15 4-Methylphenol | 108 | | | | Compound Not Detected. | | |
| \$ 18 Nitrobenzene-d5 | 82 | 8.144 | 8.147 | (0.880) | 931891 | 17.3698 | 17.37 |
| 19 Nitrobenzene | 77 | | | | Compound Not Detected. | | |
| 20 Isophorone | 82 | | | | Compound Not Detected. | | |
| 21 2-Nitrophenol | 139 | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | Compound Not Detected. | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | | | Compound Not Detected. | | |
| 25 2,4-Dichlorophenol | 162 | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | 9.256 | 9.258 | (1.000) | 3347510 | 20.0000 | |
| 28 Naphthalene | 128 | | | | Compound Not Detected. | | |
| 29 4-Chloroaniline | 127 | | | | Compound Not Detected. | | |
| 30 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 31 4-Chloro-3-methylphenol | 107 | | | | Compound Not Detected. | | |
| 32 2-Methylnaphthalene | 141 | | | | Compound Not Detected. | | |
| 33 Hexachlorocyclopentadiene | 237 | | | | Compound Not Detected. | | |
| 34 2,4,6-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | 11.072 | 11.074 | (0.915) | 2040595 | 15.6868 | 15.69 |
| 37 2-Chloronaphthalene | 162 | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | 11.825 | 11.838 | (0.977) | 92450 | 0.81460 | 0.8146 |
| 40 Acenaphthylene | 152 | | | | Compound Not Detected. | | |
| 41 2,6-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | 12.103 | 12.105 | (1.000) | 2141551 | 20.0000 | |
| 43 3-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | | | Compound Not Detected. | | |
| 45 2,4-Dinitrophenol | 184 | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | | | Compound Not Detected. | | |
| 47 4-Nitrophenol | 109 | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | 12.979 | 12.987 | (1.072) | 147011 | 1.35969 | 1.360 |
| 49 Fluorene | 166 | | | | Compound Not Detected. | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | 13.390 | 13.398 | (1.106) | 784407 | 28.2218 | 28.22 |
| 56 4-Bromophenyl-phenylether | 248 | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | 14.448 | 14.456 | (1.000) | 3383727 | 20.0000 | |
| 60 Phenanthrene | 178 | | | | Compound Not Detected. | | |
| 61 Anthracene | 178 | | | | Compound Not Detected. | | |
| 62 Carbazole | 167 | | | | Compound Not Detected. | | |
| 63 Di-n-butylphthalate | 149 | 15.623 | 15.626 | (1.081) | 604665 | 3.70567 | 3.706 |
| 64 Fluoranthene | 202 | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--|--------|--------|---------|------------------------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/L) | |
| 65 Pyrene | 202 | | | | | | | | |
| \$ 66 Terphenyl-d14 | 244 | | 17.103 | 17.106 | (0.913) | 2728362 | 19.7849 | 19.78 | |
| 67 Butylbenzylphthalate | 149 | | 18.011 | 18.014 | (0.962) | 41844 | 0.53545 | 0.5355 | |
| 68 Benzo(a)anthracene | 228 | | | | | Compound Not Detected. | | | |
| * 69 Chrysene-d12 | 240 | | 18.727 | 18.735 | (1.000) | 3983969 | 20.0000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | Compound Not Detected. | | | |
| 71 Chrysene | 228 | | | | | Compound Not Detected. | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | | | | Compound Not Detected. | | | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 19.961 | 19.964 | (1.000) | 3747644 | 20.0000 | | |
| 73 Di-n-octylphthalate | 149 | | | | | Compound Not Detected. | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | | Compound Not Detected. | | | |
| 76 Benzo(a)pyrene | 252 | | | | | Compound Not Detected. | | | |
| * 77 Perylene-d12 | 264 | | 20.864 | 20.872 | (1.000) | 4429070 | 20.0000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | | | | Compound Not Detected. | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | | Compound Not Detected. | | | |
| 80 Benzo(g,h,i)perylene | 276 | | | | | Compound Not Detected. | | | |
| 90 N-Nitrosodimethylamine | 74 | | | | | Compound Not Detected. | | | |
| 91 Aniline | 93 | | | | | Compound Not Detected. | | | |
| 93 Benzidine | 184 | | | | | Compound Not Detected. | | | |
| 103 Pyridine | 79 | | | | | Compound Not Detected. | | | |
| 105 1-methylnaphthalene | 141 | | | | | Compound Not Detected. | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | Compound Not Detected. | | | |
| 167 Total Benzofluoranthenes | 252 | | | | | Compound Not Detected. | | | |
| 98 Retene | 219 | | | | | Compound Not Detected. | | | |

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i
 Lab File ID: 05241207.D
 Lab Smp Id: UU62K
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8938

Calibration Date: 24-MAY-2012
 Calibration Time: 10:50
 Client Smp ID: MS-SSFB-120515
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 963757 | 481878 | 1927514 | 948003 | -1.63 |
| 27 Naphthalene-d8 | 3430476 | 1715238 | 6860952 | 3347510 | -2.42 |
| 42 Acenaphthene-d10 | 2259168 | 1129584 | 4518336 | 2141551 | -5.21 |
| 59 Phenanthrene-d10 | 3446677 | 1723338 | 6893354 | 3383727 | -1.83 |
| 69 Chrysene-d12 | 3961525 | 1980762 | 7923050 | 3983969 | 0.57 |
| 134 Di-n-octylphthala | 3758743 | 1879372 | 7517486 | 3747644 | -0.30 |
| 77 Perylene-d12 | 4154109 | 2077054 | 8308218 | 4429070 | 6.62 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 7.19 | 6.69 | 7.69 | 7.19 | 0.04 |
| 27 Naphthalene-d8 | 9.26 | 8.76 | 9.76 | 9.26 | -0.03 |
| 42 Acenaphthene-d10 | 12.11 | 11.61 | 12.61 | 12.10 | -0.02 |
| 59 Phenanthrene-d10 | 14.46 | 13.96 | 14.96 | 14.45 | -0.05 |
| 69 Chrysene-d12 | 18.73 | 18.23 | 19.23 | 18.73 | -0.04 |
| 134 Di-n-octylphthala | 19.96 | 19.46 | 20.46 | 19.96 | -0.01 |
| 77 Perylene-d12 | 20.87 | 20.37 | 21.37 | 20.86 | -0.04 |

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

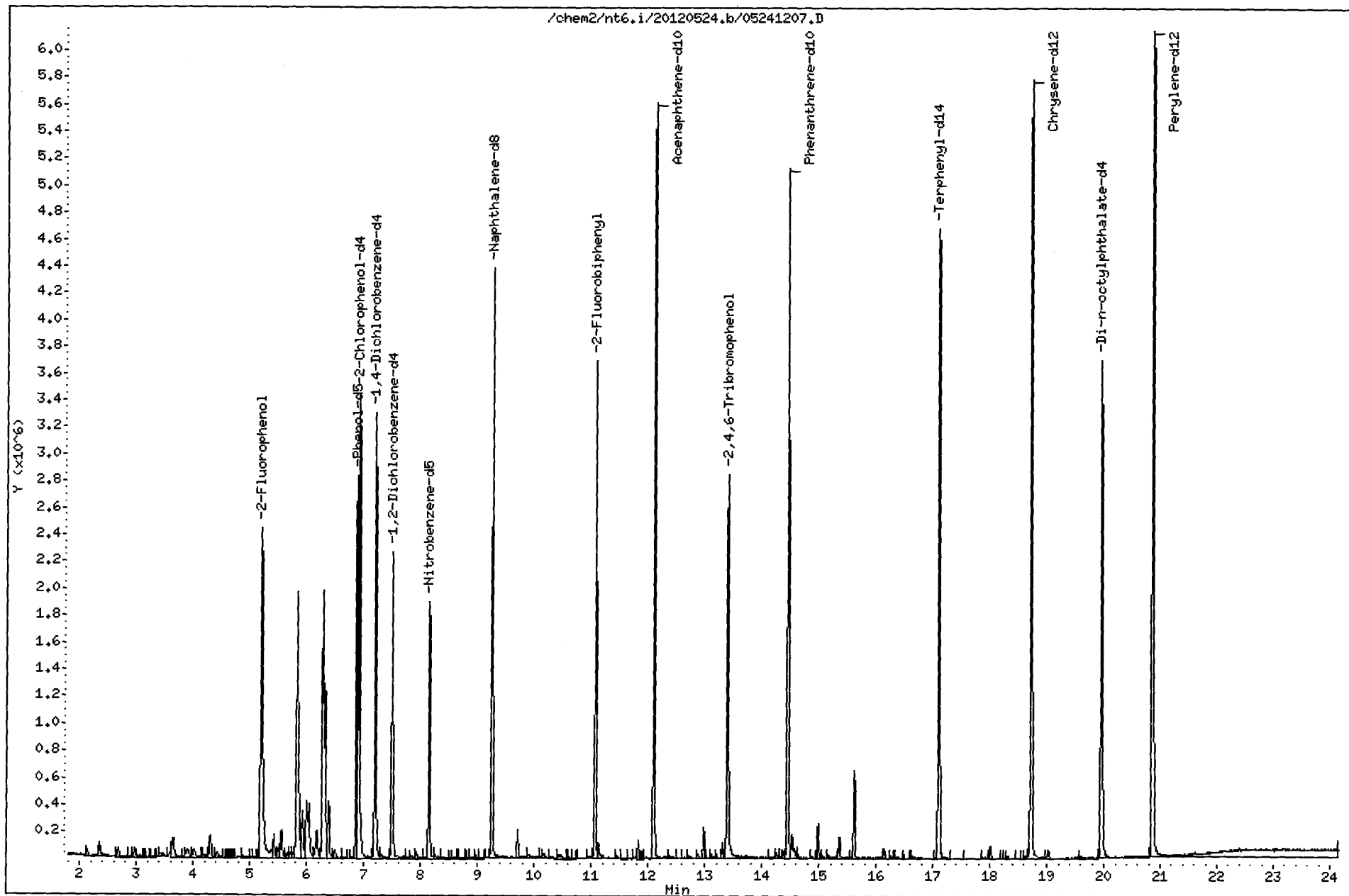
Client Name: Anchor QEA, LLC.
 Sample Matrix: LIQUID
 Lab Smp Id: UU62K
 Level: LOW
 Data Type: MS DATA
 SpikeList File: LLLCS.spk
 Sublist File: LLReten.sub
 Method File: /chem2/nt6.i/20120524.b/SW846052312.m
 Misc Info: 12-8938

Client SDG: UU62
 Fraction: SV
 Client Smp ID: MS-SSFB-120515
 Operator: JZ
 SampleType: SAMPLE
 Quant Type: ISTD

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 1 2-Fluorophenol | 37.50 | 25.73 | 68.63 | 38-100 |
| \$ 2 Phenol-d5 | 37.50 | 26.16 | 69.75 | 41-100 |
| \$ 5 2-Chlorophenol-d4 | 37.50 | 25.76 | 68.70 | 44-100 |
| \$ 10 1,2-Dichlorobenzen | 25.00 | 14.33 | 57.32 | 32-100 |
| \$ 18 Nitrobenzene-d5 | 25.00 | 17.37 | 69.48 | 39-100 |
| \$ 36 2-Fluorobiphenyl | 25.00 | 15.69 | 62.75 | 42-100 |
| \$ 55 2,4,6-Tribromophen | 37.50 | 28.22 | 75.26 | 48-118 |
| \$ 66 Terphenyl-d14 | 25.00 | 19.78 | 79.14 | 28-121 |

Date : 24-MAY-2012 14:14
Client ID: MS-SSFB-120515
Sample Info: UU62K
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



UU52:01155

Date: 24-MAY-2012 14:14

Client ID: MS-SSFB-120515

Instrument: nt6.i

Sample Info: UU62K

Volume Injected (uL): 1.0

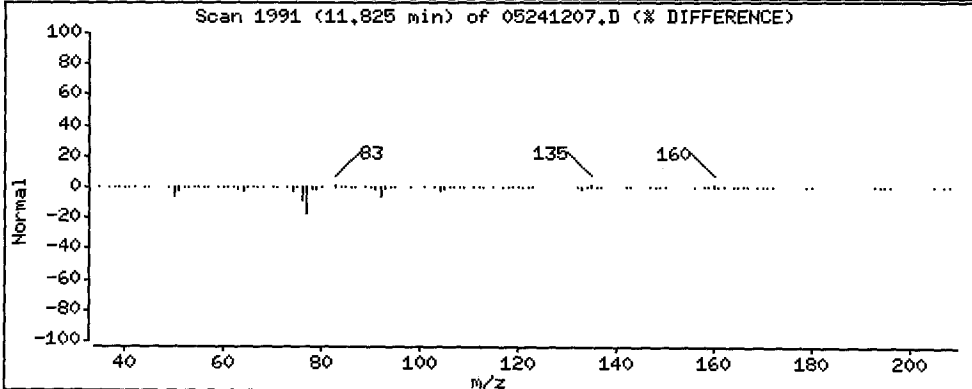
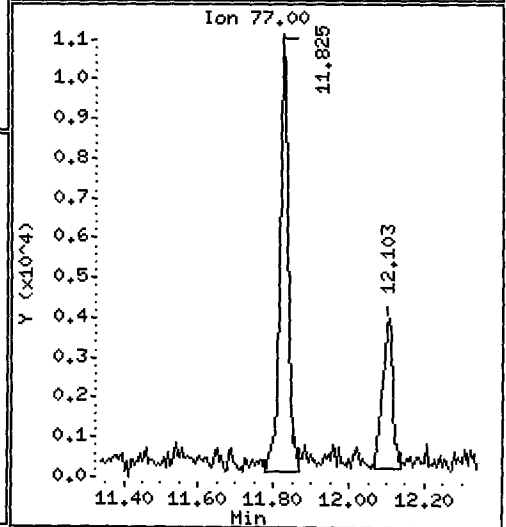
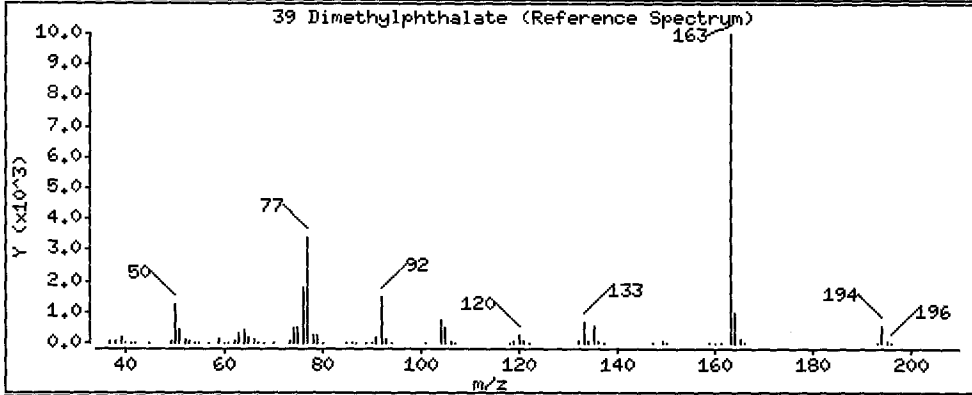
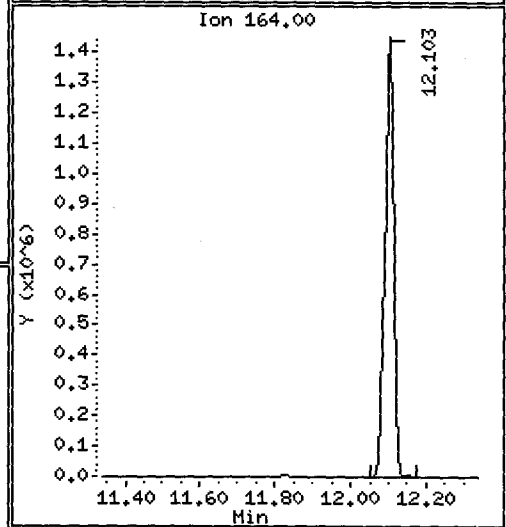
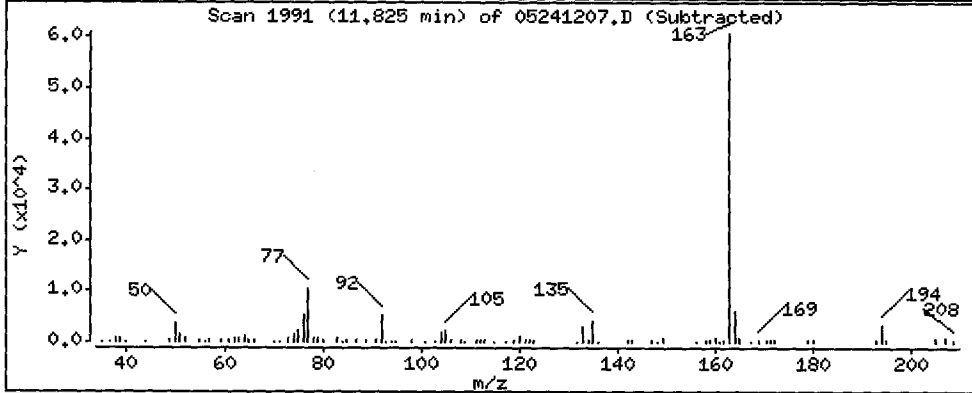
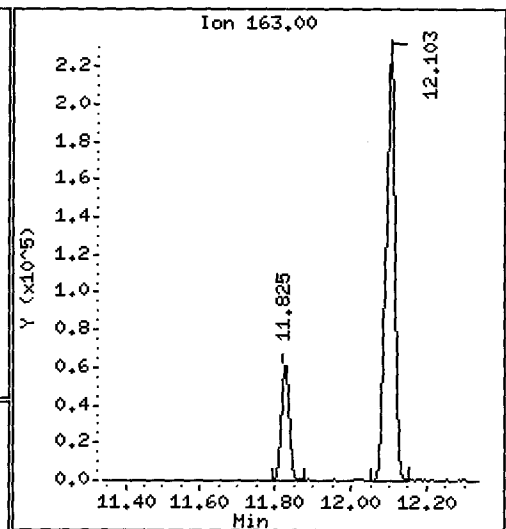
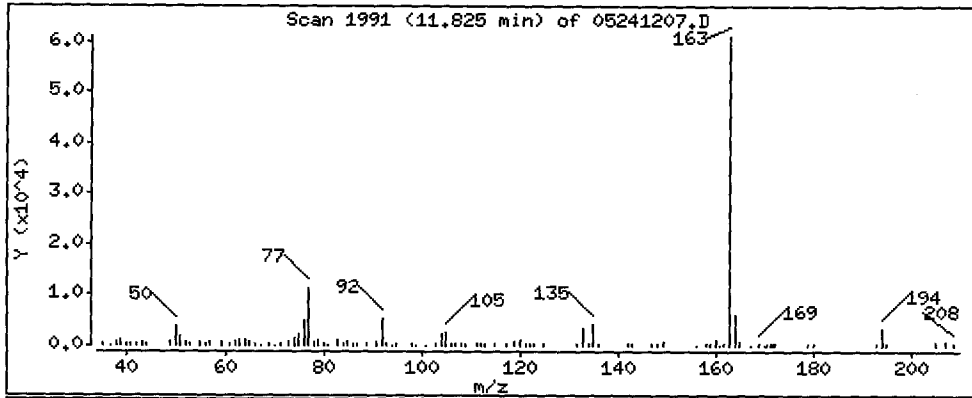
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

39 Dimethylphthalate

Concentration: 0.8146 ug/L



Date : 24-MAY-2012 14:14

Client ID: MS-SSFB-120515

Instrument: nt6.i

Sample Info: UU62K

Volume Injected (uL): 1.0

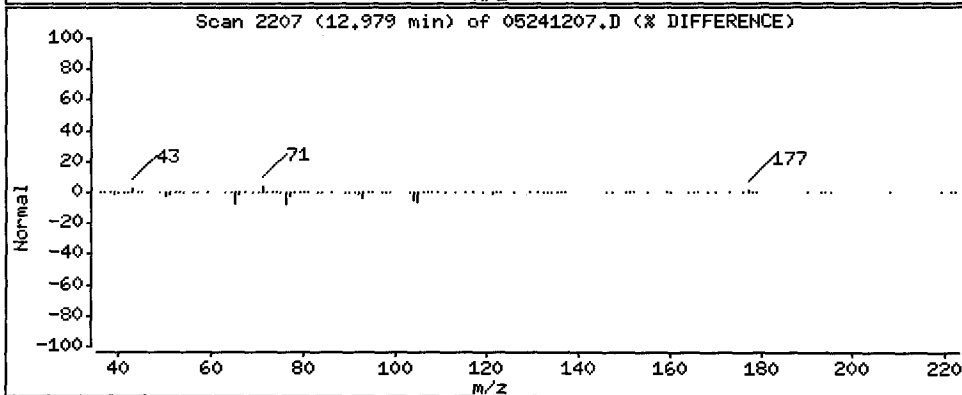
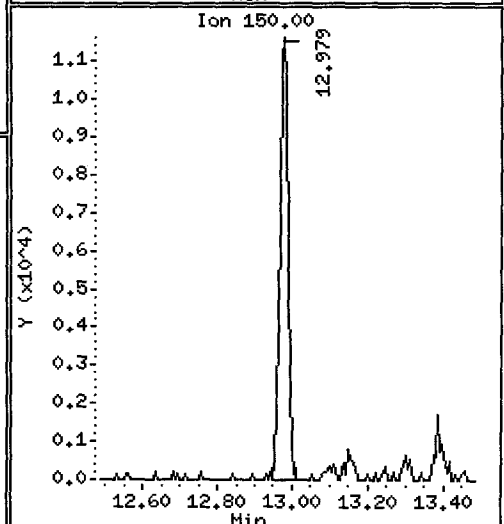
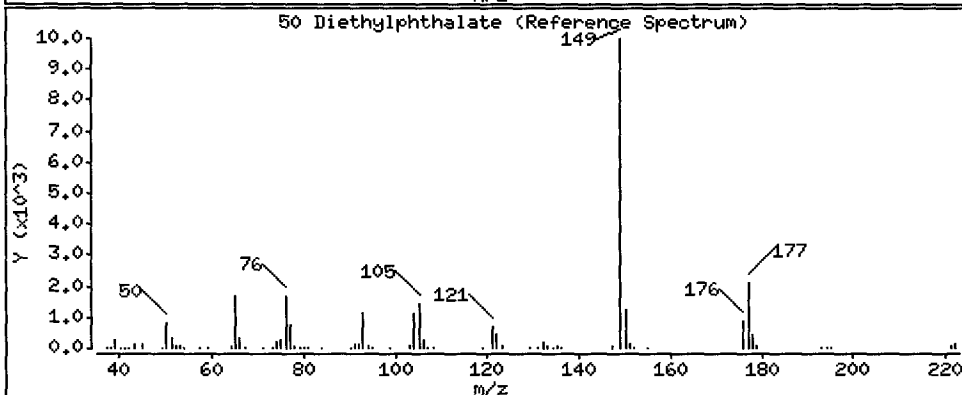
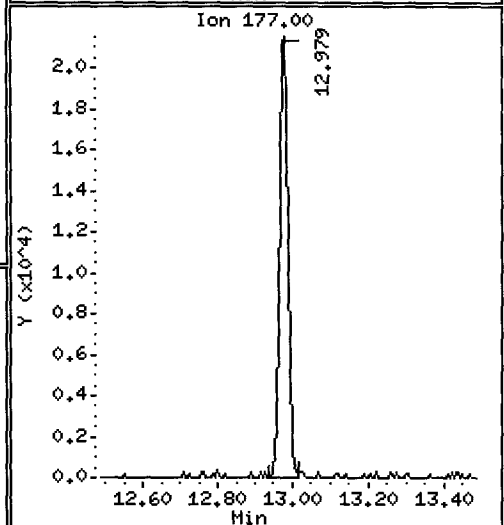
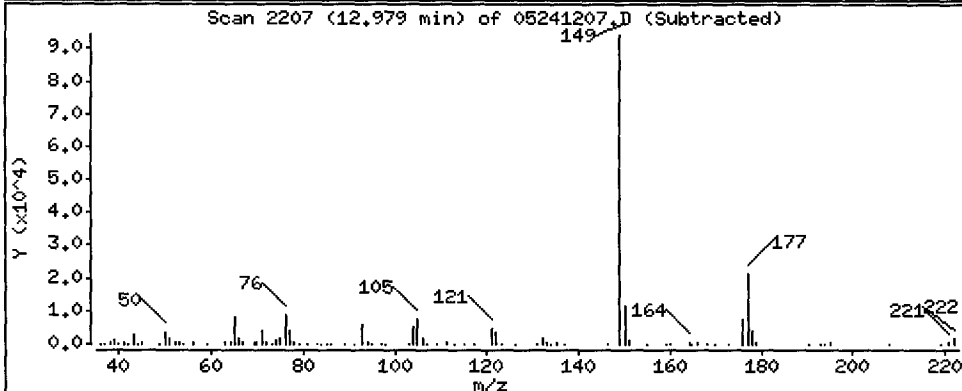
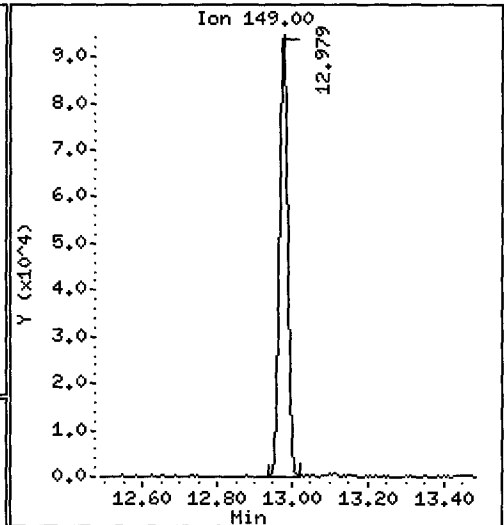
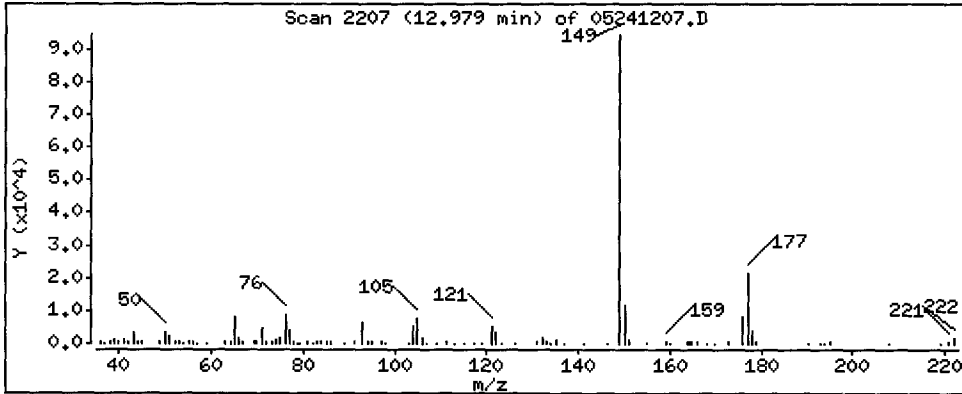
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 1,360 ug/L



Date : 24-MAY-2012 14:14

Client ID: MS-SSFB-120515

Instrument: nt6.i

Sample Info: UU62K

Volume Injected (uL): 1.0

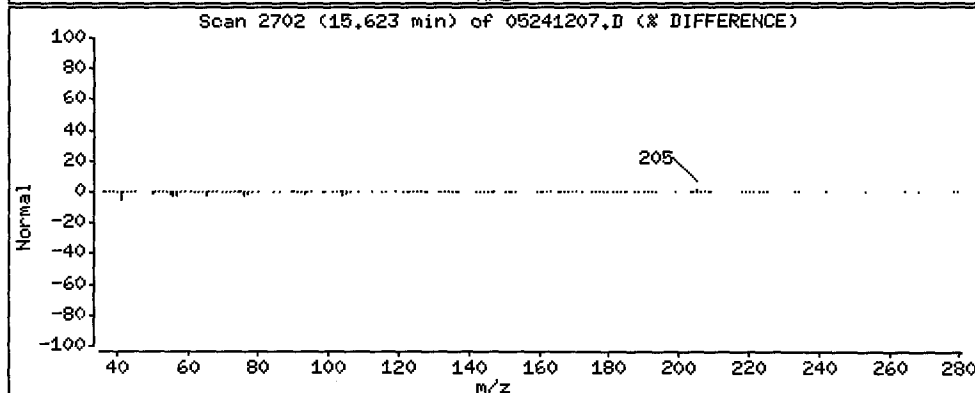
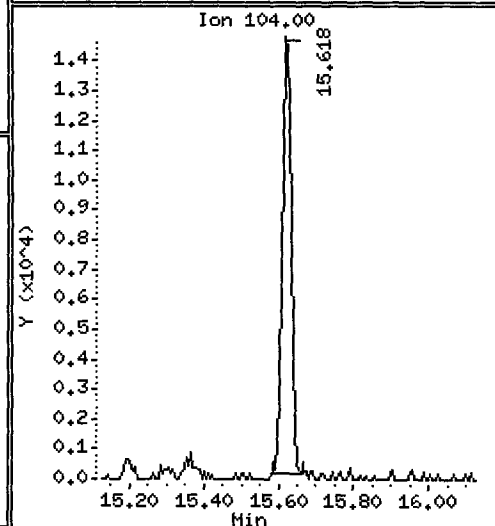
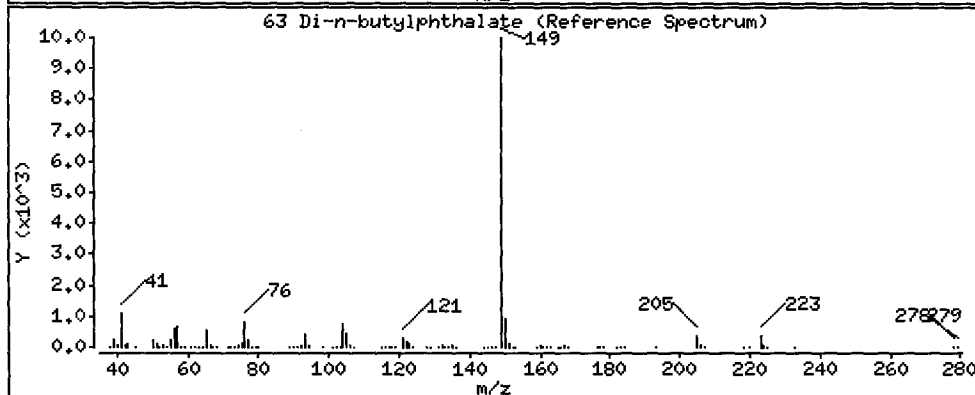
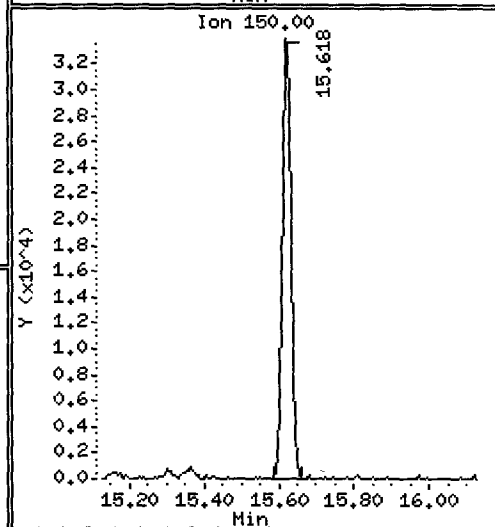
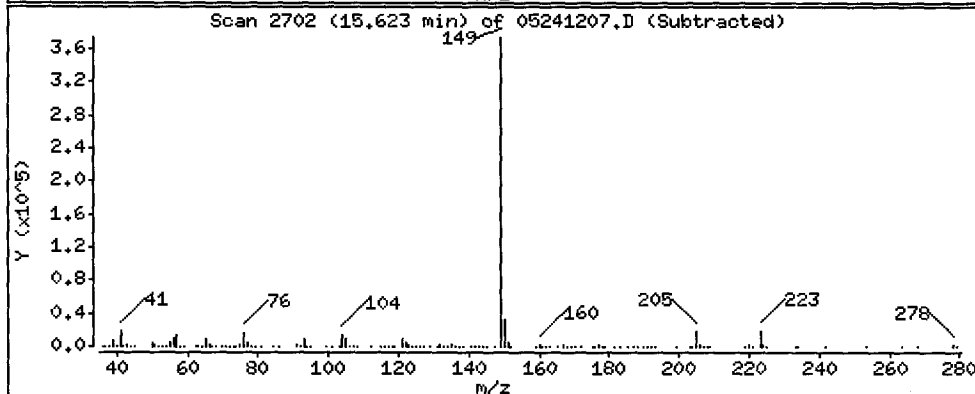
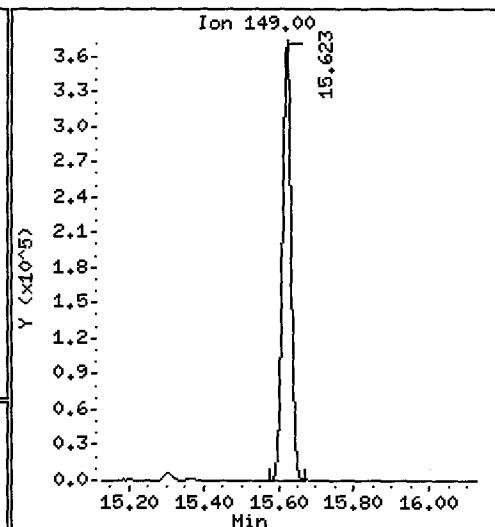
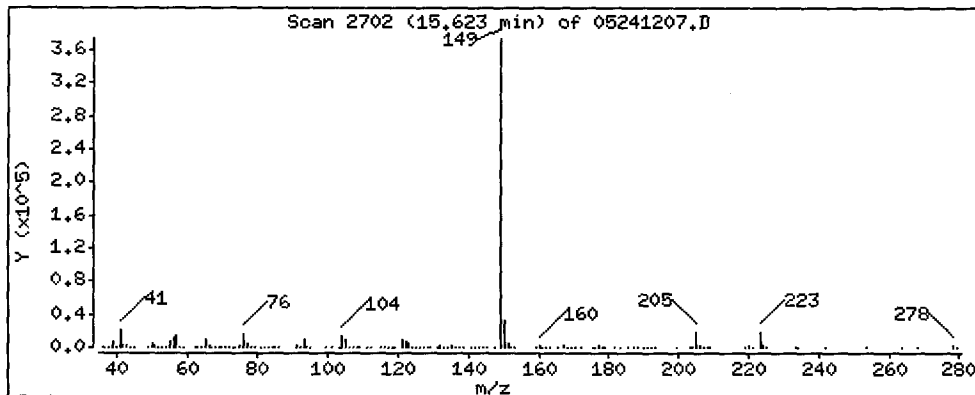
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

63 Di-n-butylphthalate

Concentration: 3,706 ug/L



Date : 24-MAY-2012 14:14

Client ID: MS-SSFB-120515

Instrument: nt6.i

Sample Info: UU62K

Volume Injected (uL): 1.0

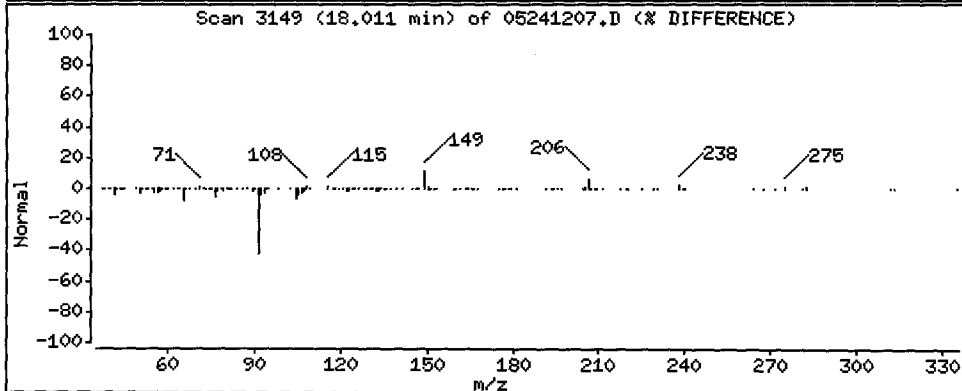
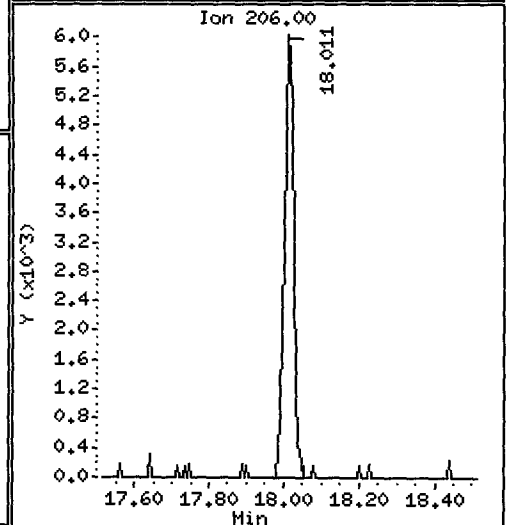
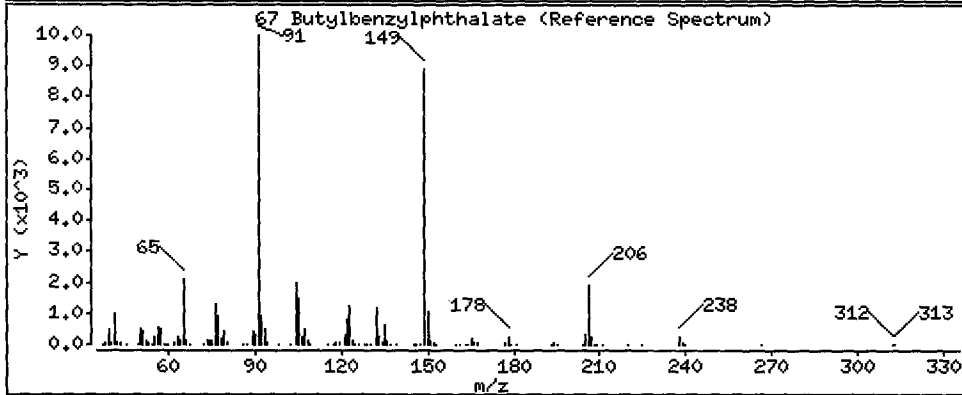
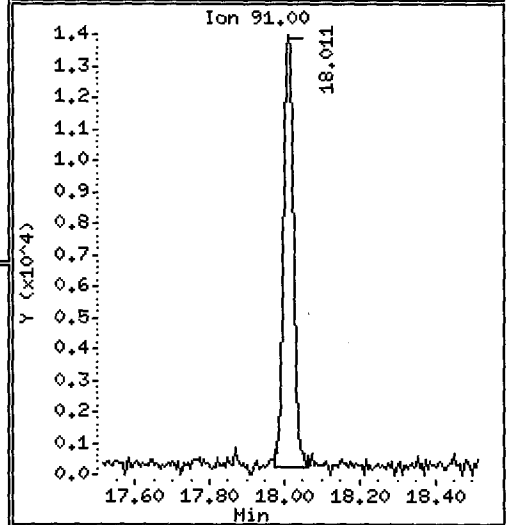
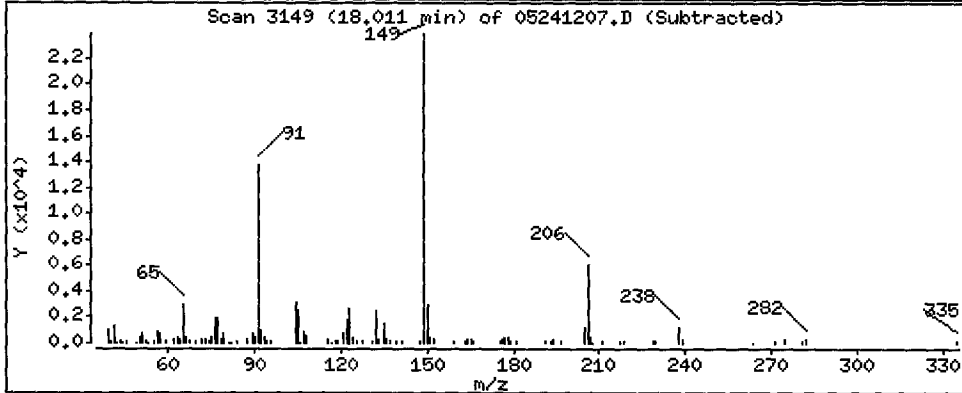
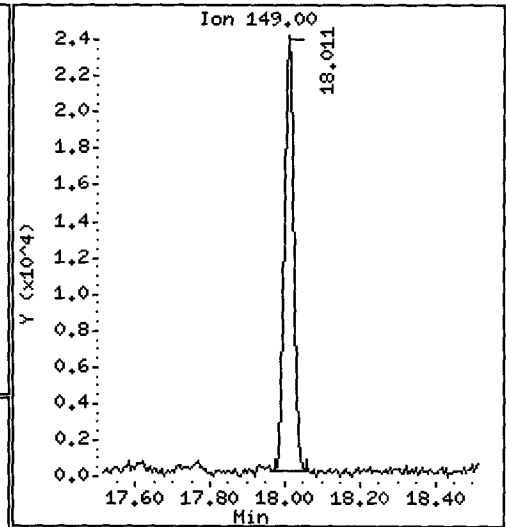
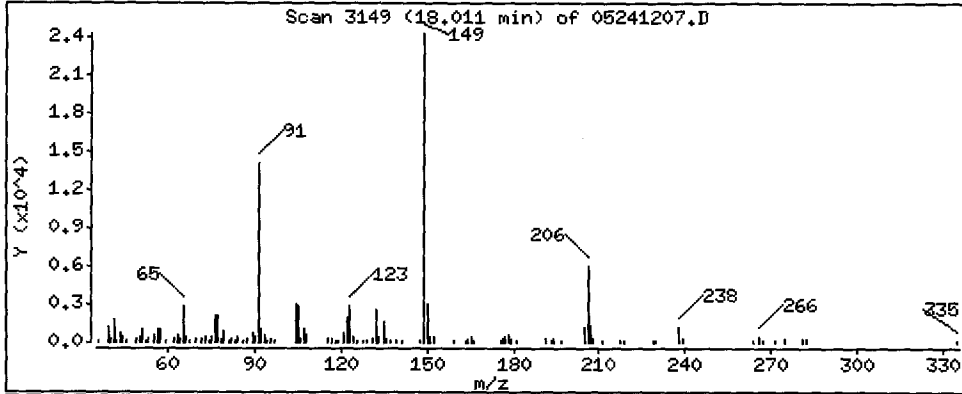
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

67 Butylbenzylphthalate

Concentration: 0.5355 ug/L



CO-ELUTION SUMMARY FOR FILE - 05241207.D

Lab ID: UU62K, Method: SW846052312.m, Instrument: nt6.i, Date: 24-MAY-2012

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

**Pesticide Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: UU52, UU62

very high sulfur content

| ARI Sample I.D. | Weight Extracted (eq. to 12.5 dry wt) | (REQ) Sulfur Clean 2mL+0.5mL Ethyl Acetate 12 ³ | (REQ) Silica Gel Clean (1:2.5) | Final Effective Volume | Volume to Lab | Comment | Verify Client ID |
|--------------------|---------------------------------------|--|--------------------------------|------------------------|---------------|-----------------|--|
| MBS <u>uu52</u> | 12.5g | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | (10g Actual Wt) | AC 5-22-12 Analyst/Date Microwave |
| SBS | 12.5g | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | (10g Actual Wt) | RR/ML 5/23/12 |
| SBS Dup. A | 12.5g 130.43 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | (40g Actual Wt) | Analyst/Date |
| QES B | 12.5g 129.09 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | (40g Actual Wt) | Analyst/Date |
| C | 123.43 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | Analyst/Date |
| Cms | 123.70 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | Analyst/Date |
| Cmsd | 123.14 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | Analyst/Date |
| D | 135.72 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | TurboVap 123 Pre-Cleanups |
| E | 131.57 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | |
| F | 141.65 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | |
| G | 136.63 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | 5-24-12 Analyst/Date |
| H | 78.46 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | TurboVap 123 Post Cleanups |
| I | 114.44 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | |
| V J | 127.31 | 2.5mL | (1:2.5) 1mL | 2.5mL | 1mL | | |
| Analyst/Date | AC 5-22-12 | 5-24-12 | 5-24-12 | 5-24-12 | 5-24-12 | | 5-24-12 Analyst/Date |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|----------------------|-------------------|--------------------------|-----------------|-----------------|---------|---------|
| Surrogate | N (1914-2) | 2µg/mL | 50µL | 5/28/12 | RR | SP |
| Spike | 3 (1922-2) | 1/2/10µg/mL | 50µL | 12/13/12 | RR | SP |
| GLS Spike | 10 () | 0.25-2.5µg/mL | 25µL | | | |

Extraction Time: 1140 Balance ID: B1464-2614

SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. Note: do not fill vessel more than 2/3rd full. Some samples may require ~~two~~ vessels. *multiple*

3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask with sodium sulfate in the bottom and funnel containing neutral glasswool. 8. Rinse with Hexane 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD (Small) Large drying column) to 5mL at 100°C. 12. Exchange to Hexane (2 X with 20mL). 13. TurboVap. 14. Clean-ups. 15. TurboVap. 16. Vial in Hexane.

A. Need Total Solids Y (N) B. Archive/Freeze Y (N)

4434

UU52:01162



ARI Job No.: UU52

Client ID: Anchor QEA, LLC

Parameter: Pest PSDDA

Client Project: Field Wen Mausby Marsh

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|--------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= | AC 5-16-12 |
| <input type="checkbox"/> Standing Water Decanted (Not shared)= | ↓ |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= B < 5% sticks D = 30% grass/sticks E = 10% grass F = 60% grass/sticks G = 5% grass/sticks H = 30% I = 50% | AC 5-16-12 |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= B- | |
| <input checked="" type="checkbox"/> Other (Details)= UU52 - A-J - Samples, surrogate? spikes has to be split into multi vessels prior to microwave due to sample weight, all samples will combine after microwaved samples with multi flask case: A, B, C, D, E, F, G, H, I, J | ML5/23/12 |
| Aqueous: | |
| <input type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |

**Pesticide Raw Data
Initial Calibration**

ARI Job ID: UU52, UU62



GC Initial Calibration Notes

ARI SOP: **403S(PCB)** **405S(Herb)** **407S(TPH-D)** **409S(HCID)** **412S(PCP)** **423S(Pest)**
427S(Dir Inj) **428S(EPH)** **Other**

Instrument: FID-3A FID-3B FID-4A **FID-4B** FID-5 FID-7 FID-8
 FID-9 ECD-1 ECD-5 **ECD-6** ECD-7 ECD-8

Curve Date(s): 5/23/2012 Internal Standard ID 1878-3 Expiration 8/1/2012

Endrin/DDT Breakdown <15%? **YES** / NO / NA ICV Exceeding ±20%? **YES** / NO ^①
 ICal Meets %RSD & r² Criteria **YES** / NO ICV Exceeding ±30%? YES / **NO**
 Manual Integrations for ICal? **YES** / NO Linear Fits Used? YES / **NO**
 Minimum Response S/N Met **YES** / NO Quadratic Fits Used? YES / **NO**
 Calibration Points Dropped? YES / **NO**

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|------------------|---------------|-------------------|-------------------|---------------|------------------|
| <u>INDA</u> | <u>1982-1</u> | <u>12/13/2012</u> | <u>INDA</u> | <u>1897-4</u> | <u>5/28/2012</u> |
| <u>WWD</u> | <u>1938-1</u> | <u>5/28/2012</u> | <u>WWD</u> | <u>1935-2</u> | <u>5/28/2012</u> |
| <u>Toxaphene</u> | <u>1924-5</u> | <u>5/28/2012</u> | <u>HCB/HCBD 1</u> | <u>1886-2</u> | <u>5/28/2012</u> |
| <u>Techlor</u> | <u>1924-4</u> | <u>5/28/2012</u> | <u>2,4-DDx</u> | <u>1936-6</u> | <u>1/10/2013</u> |
| <u>IB</u> | <u>1982-2</u> | <u>5/16/2013</u> | | | |
| <u>DS</u> | <u>1878-2</u> | <u>5/28/2012</u> | | | |
| | | | | | |
| | | | | | |

Detail problems, corrective actions and/or other pertinent information below:

① 2,4-DDE col 2 @ 122.48R, col. 1 ± 20%

Analyst: Date: 5/24/2012
 Reviewer: Date: 5/24/12

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20120523PEST.b/ical-2.b

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|------------|----|-------------------------------|----------|
| 1 | 23-MAY-2012 13:54 | 0523A004.d | 1 | DS | |
| 2 | 23-MAY-2012 14:12 | 0523A005.d | 1 | IB | |
| 3 | 23-MAY-2012 14:29 | 0523A006.d | 1 | INDAE | |
| 4 | 23-MAY-2012 14:47 | 0523A007.d | 1 | INDAA | |
| 5 | 23-MAY-2012 15:05 | 0523A008.d | 1 | INDAB | |
| 6 | 23-MAY-2012 15:23 | 0523A009.d | 1 | INDAC | |
| 7 | 23-MAY-2012 15:41 | 0523A010.d | 1 | INDAD | |
| 8 | 23-MAY-2012 15:58 | 0523A011.d | 1 | INDAF | |
| 9 | 23-MAY-2012 16:16 | 0523A012.d | 1 | INDAG | |
| 10 | 23-MAY-2012 16:34 | 0523A013.d | 1 | INDA ICV | |
| 11 | 23-MAY-2012 16:52 | 0523A014.d | 1 | HCB/HCBD ICV | |
| 12 | 23-MAY-2012 17:10 | 0523A015.d | 1 | TOXAPH 2500 | |
| 13 | 23-MAY-2012 17:27 | 0523A016.d | 1 | WNDE | |
| 14 | 23-MAY-2012 17:45 | 0523A017.d | 1 | WNDA | |
| 15 | 23-MAY-2012 18:03 | 0523A018.d | 1 | WNDB | |
| 16 | 23-MAY-2012 18:21 | 0523A019.d | 1 | WNDC | |
| 17 | 23-MAY-2012 18:39 | 0523A020.d | 1 | WNDD | |
| 18 | 23-MAY-2012 18:56 | 0523A021.d | 1 | WNDF | |
| 19 | 23-MAY-2012 19:14 | 0523A022.d | 1 | WNDG | |
| 20 | 23-MAY-2012 19:32 | 0523A023.d | 1 | WND ICV | |
| 21 | 23-MAY-2012 19:50 | 0523A024.d | 1 | 2/4-DDTS ICV | |
| 22 | 23-MAY-2012 20:08 | 0523A025.d | 1 | TECH 200 WND ASSAY | |
| 23 | 23-MAY-2012 20:25 | 0523A026.d | 1 | DDT RT TECH 200 | |

AR 5/24/2012

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A017.d
 Level 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A018.d
 Level 3: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A019.d
 Level 4: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A020.d
 Level 5: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A016.d
 Level 6: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A021.d
 Level 7: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A022.d

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 1 Hexachlorobutadiene | 1.65636 1.39798 | 1.50163 | 1.57876 | 1.47074 | 1.41861 | 1.32785 | 1.47885 | 7.562 |
| 3 Hexachlorobenzene | 1.35717 1.21654 | 1.23818 | 1.29125 | 1.21861 | 1.21724 | 1.16879 | 1.24397 | 4.961 |
| 4 alpha-BHC | 1.32952 1.40626 | 1.28947 | 1.40059 | 1.37678 | 1.38380 | 1.34940 | 1.36226 | 3.088 |
| 5 gamma-BHC (Lindane) | 1.23891 1.18162 | 1.10980 | 1.17985 | 1.14103 | 1.15693 | 1.12818 | 1.16233 | 3.676 |
| 6 beta-BHC | 0.62504 0.50180 | 0.51533 | 0.53712 | 0.50492 | 0.50135 | 0.48268 | 0.52403 | 9.063 |
| 7 delta-BHC | 0.96154 1.07290 | 0.87508 | 0.95807 | 0.93364 | 1.00362 | 1.00169 | 0.97236 | 6.399 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 8 Heptachlor | 1.34024 1.04330 | 1.19727 | 1.25048 | 1.18065 | 1.11896 | 1.05732 | 1.16974 | 9.079 |
| 37 Chlorthalonil | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 9 Aldrin | 1.10834 0.96398 | 1.01443 | 1.06032 | 1.00791 | 0.99236 | 0.94979 | 1.01387 | 5.429 |
| 10 Heptachlor Epoxide a | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 11 Heptachlor epoxide b | 1.10178 0.89590 | 1.04733 | 1.03236 | 0.96761 | 0.94708 | 0.89310 | 0.98359 | 8.078 |
| 12 gamma-Chlordane | 0.99086 0.88079 | 0.90832 | 0.96200 | 0.90015 | 0.88933 | 0.85705 | 0.91264 | 5.174 |
| 13 alpha-Chlordane | 0.99263 0.82738 | 0.88405 | 0.90013 | 0.84392 | 0.83263 | 0.79915 | 0.86856 | 7.438 |
| 14 Endosulfan I | 1.00548 0.78839 | 0.87872 | 0.89336 | 0.83530 | 0.81450 | 0.77709 | 0.85612 | 9.198 |
| 15 4,4'-DDE | 0.89530 0.75037 | 0.78678 | 0.80828 | 0.75308 | 0.75728 | 0.72797 | 0.78272 | 7.173 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 16 Dieldrin | 1.00557 | 0.90149 | 0.93257 | 0.88795 | 0.85917 | 0.80434 | | |
| | 0.80415 | | | | | | 0.88504 | 8.094 |
| 17 Endrin | 1.61393 | 1.43188 | 1.40621 | 1.36344 | 1.35023 | 1.28452 | | |
| | 1.16341 | | | | | | 1.37337 | 10.080 |
| 18 4,4'-DDD | 1.30959 | 1.15375 | 1.13555 | 1.09241 | 1.14711 | 1.12344 | | |
| | 1.07175 | | | | | | 1.14766 | 6.731 |
| 19 Endosulfan II | 1.63655 | 1.46456 | 1.42963 | 1.38066 | 1.35523 | 1.29779 | | |
| | 1.17600 | | | | | | 1.39149 | 10.310 |
| 20 4,4'-DDT | 1.23923 | 1.11351 | 1.11530 | 1.09696 | 1.13748 | 1.12855 | | |
| | 1.07961 | | | | | | 1.13009 | 4.585 |
| 21 Endrin aldehyde | 1.26354 | 1.11599 | 1.08050 | 1.03768 | 1.03127 | 0.98237 | | |
| | 0.90735 | | | | | | 1.05981 | 10.594 |
| 22 Endosulfan sulfate | 1.20465 | 1.10100 | 1.09062 | 1.06200 | 1.05315 | 1.02103 | | |
| | 0.95133 | | | | | | 1.06911 | 7.279 |
| 23 Methoxychlor | 0.59047 | 0.53992 | 0.50984 | 0.47905 | 0.44187 | 0.40079 | | |
| | +++++ | | | | | | 0.49366 | 13.826 |
| 24 Endrin ketone | 1.58157 | 1.44702 | 1.42930 | 1.36698 | 1.35114 | 1.28218 | | |
| | 1.17655 | | | | | | 1.37639 | 9.353 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
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 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 26 Aroclor-1016(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| 27 Aroclor-1221(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| | +++++ | | | | | | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 28 Aroclor-1232(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 29 Aroclor-1242(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 30 Aroclor-1248 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 31 Aroclor-1254 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 32 Aroclor-1260(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 33 Aroclor-1262(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 34 Aroclor-1268(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 35 Toxaphene(1) | +++++ | +++++ | +++++ | +++++ | 0.04349 | +++++ | 0.04349 | 0.000 |

Analytical Resources, Inc.

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 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | 0.06490 | +++++ | | |
| | +++++ | | | | | | 0.06490 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | 0.06823 | +++++ | | |
| | +++++ | | | | | | 0.06823 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | 0.05423 | +++++ | | |
| | +++++ | | | | | | 0.05423 | 0.000 |
| (5) | +++++ | +++++ | +++++ | +++++ | 0.07384 | +++++ | | |
| | +++++ | | | | | | 0.07384 | 0.000 |
| 38 2,4-DDE | 0.56456 0.48705 | 0.56262 | 0.50524 | 0.50560 | 0.48138 | 0.45709 | 0.50908 | 7.990 |
| 39 2,4-DDD | 1.10232 0.78417 | 1.00479 | 0.92062 | 0.88353 | 0.86256 | 0.81665 | 0.91066 | 12.161 |
| 40 2,4-DDT | 1.17035 0.88276 | 1.06156 | 0.97871 | 0.96115 | 0.95821 | 0.91241 | 0.98931 | 9.864 |
| 41 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 42 Oxychlorane | 0.87084 0.75984 | 0.83597 | 0.77337 | 0.77940 | 0.74349 | 0.71053 | 0.78192 | 6.999 |

Analytical Resources, Inc.

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 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 43 trans-Nonachlor | 2.02516 1.40613 | 1.79344 | 1.62468 | 1.56637 | 1.54157 | 1.45834 | 1.63081 | 13.112 |
| 44 cis-Nonachlor | 1.89636 1.47120 | 1.75305 | 1.64779 | 1.62483 | 1.59707 | 1.52164 | 1.64456 | 8.706 |
| 45 Mirex | 1.29427 0.82394 | 1.10952 | 0.99581 | 0.94061 | 0.90192 | 0.85210 | 0.98831 | 16.711 |
| 46 bis-(2-ethylhexyl) Phthalate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 56 Tech-Chlordane(1) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (2) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (3) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 47 Trifluralin | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 48 Dacthal | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.

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 Cal Date : 24-May-2012 08:54 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 49 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 51 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 53 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 54 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Tetrachloro-m-xylene | 1.06053 | 0.98470 | 1.04125 | 0.99245 | 0.97711 | 0.92893 | | |
| | 0.96432 | | | | | | 0.99276 | 4.530 |
| \$ 25 Decachlorobiphenyl | 1.33438 | 1.19536 | 1.13047 | 1.07991 | 1.03746 | 1.01138 | | |
| | 0.96371 | | | | | | 1.10753 | 11.380 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20120523PEST.b/ical-2.b

ARI Job No.: DS Method: PEST0523B.m Instrument: ecd6.i Date: 23-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|---------------|----------|----|-------------------------------|
| 1354 | 0523A004.d | DS | | 1 | NO MANUAL INTEGRATION |
| 1412 | 0523A005.d | IB | | 1 | NO MANUAL INTEGRATION |
| 1429 | 0523A006.d | INDAE | | 1 | NO MANUAL INTEGRATION |
| 1447 | 0523A007.d | INDAA | | 1 | NO MANUAL INTEGRATION |
| 1505 | 0523A008.d | INDAB | | 1 | NO MANUAL INTEGRATION |
| 1523 | 0523A009.d | INDAC | | 1 | NO MANUAL INTEGRATION |
| 1541 | 0523A010.d | INDAD | | 1 | NO MANUAL INTEGRATION |
| 1558 | 0523A011.d | INDAF | | 1 | NO MANUAL INTEGRATION |
| 1616 | 0523A012.d | INDAG | | 1 | NO MANUAL INTEGRATION |
| 1634 | 0523A013.d | INDA ICV | | 1 | NO MANUAL INTEGRATION |
| 1652 | 0523A014.d | HCBD/HCBD ICV | | 1 | NO MANUAL INTEGRATION |
| 1710 | 0523A015.d | TOXAPH 2500 | | 1 | NO MANUAL INTEGRATION |
| 1727 | 0523A016.d | WNDE | | 1 | NO MANUAL INTEGRATION |
| 1745 | 0523A017.d | WNDA | | 1 | NO MANUAL INTEGRATION |
| 1803 | 0523A018.d | WNDB | | 1 | NO MANUAL INTEGRATION |
| 1821 | 0523A019.d | WNDC | | 1 | NO MANUAL INTEGRATION |
| 1839 | 0523A020.d | WNDD | | 1 | NO MANUAL INTEGRATION |
| 1856 | 0523A021.d | WNDF | | 1 | NO MANUAL INTEGRATION |
| 1914 | 0523A022.d | WNDG | | 1 | NO MANUAL INTEGRATION |
| 1932 | 0523A023.d | WND ICV | | 1 | NO MANUAL INTEGRATION |
| 1950 | 0523A024.d | 2/4-DDTS ICV | | 1 | NO MANUAL INTEGRATION |

20120523

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20120523PEST.b/ical-2.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2008 | 0523A025.d | TECH 200 | | 1 | NO MANUAL INTEGRATION |
| 2025 | 0523A026.d | DDT RT | | 1 | NO MANUAL INTEGRATION |

052:01101

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b
Inst ID: ecd6.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A006 | 0523A007 | 0523A008 | 0523A009 | 0523A010 | 0523A011 | 0523A012 |
| INJ.DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ.TIME: | 14:29 | 14:47 | 15:05 | 15:23 | 15:41 | 15:58 | 16:16 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | 2.112 | 2.112 | 2.112 | 2.112 | 2.112 | 2.112 | 2.113 | 2.113 | 2.063-2.163 | 2.112 | 0.000 |
| * 52 1Bromo-2nitrobenzene | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.805-2.905 | 2.855 | 0.000 |
| * 55 Hexabromobiphenyl | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.305-9.405 | 9.355 | 0.000 |
| \$ 2 Tetrachloro-m-xylene | 3.588 | 3.588 | 3.588 | 3.588 | 3.588 | 3.588 | 3.588 | 3.588 | 3.538-3.638 | 3.588 | 0.000 |
| 3 Hexachlorobenzene | 3.996 | 3.997 | 3.997 | 3.997 | 3.996 | 3.995 | 3.995 | 3.995 | 3.945-4.045 | 3.996 | 0.001 |
| 4 alpha-BHC | 4.107 | 4.107 | 4.107 | 4.107 | 4.107 | 4.107 | 4.108 | 4.108 | 4.058-4.158 | 4.107 | 0.000 |
| 5 gamma-BHC (Lindane) | 4.428 | 4.428 | 4.428 | 4.428 | 4.428 | 4.428 | 4.429 | 4.429 | 4.379-4.479 | 4.428 | 0.000 |
| 6 beta-BHC | 4.503 | 4.505 | 4.505 | 4.504 | 4.503 | 4.502 | 4.502 | 4.502 | 4.452-4.552 | 4.503 | 0.001 |
| 7 delta-BHC | 4.783 | 4.785 | 4.785 | 4.784 | 4.784 | 4.783 | 4.782 | 4.782 | 4.732-4.832 | 4.784 | 0.001 |
| 8 Heptachlor | 4.849 | 4.849 | 4.849 | 4.848 | 4.849 | 4.849 | 4.849 | 4.849 | 4.799-4.899 | 4.849 | 0.000 |
| 37 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.588 | 14.538-14.638 | +++++ | +++++ |
| 9 Aldrin | 5.170 | 5.170 | 5.170 | 5.170 | 5.170 | 5.170 | 5.171 | 5.171 | 5.121-5.221 | 5.170 | 0.000 |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.680 | 12.630-12.730 | +++++ | +++++ |
| 11 Heptachlor epoxide b | 5.732 | 5.732 | 5.732 | 5.732 | 5.733 | 5.732 | 5.733 | 5.733 | 5.683-5.783 | 5.732 | 0.000 |
| 12 gamma-Chlordane | 5.918 | 5.918 | 5.919 | 5.919 | 5.918 | 5.918 | 5.918 | 5.918 | 5.868-5.968 | 5.918 | 0.000 |
| 13 alpha-Chlordane | 6.057 | 6.057 | 6.058 | 6.057 | 6.057 | 6.057 | 6.057 | 6.057 | 6.007-6.107 | 6.057 | 0.000 |
| 14 Endosulfan I | 6.117 | 6.116 | 6.118 | 6.117 | 6.117 | 6.117 | 6.118 | 6.118 | 6.068-6.168 | 6.117 | 0.000 |

Reviewer 1 _____
Reviewer 2 _____

AP Date: 5/23/2012
Date: 5/24/2012

001:01482

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 15 4,4'-DDE | 6.209 | 6.212 | 6.212 | 6.211 | 6.211 | 6.209 | 6.208 | 6.208 | 6.158-6.258 | 6.210 | 0.001 |
| 16 Dieldrin | 6.377 | 6.377 | 6.377 | 6.377 | 6.377 | 6.377 | 6.377 | 6.377 | 6.327-6.427 | 6.377 | 0.000 |
| 17 Endrin | 6.664 | 6.664 | 6.664 | 6.664 | 6.664 | 6.665 | 6.664 | 6.664 | 6.614-6.714 | 6.664 | 0.000 |
| 18 4,4'-DDD | 6.749 | 6.751 | 6.752 | 6.752 | 6.751 | 6.749 | 6.749 | 6.749 | 6.699-6.799 | 6.750 | 0.001 |
| 19 Endosulfan II | 6.857 | 6.857 | 6.857 | 6.857 | 6.857 | 6.858 | 6.857 | 6.857 | 6.807-6.907 | 6.857 | 0.000 |
| 20 4,4'-DDT | 7.035 | 7.035 | 7.035 | 7.035 | 7.035 | 7.035 | 7.034 | 7.034 | 6.984-7.084 | 7.035 | 0.001 |
| 21 Endrin aldehyde | 7.158 | 7.158 | 7.159 | 7.158 | 7.159 | 7.158 | 7.158 | 7.158 | 7.108-7.208 | 7.158 | 0.000 |
| 22 Endosulfan sulfate | 7.404 | 7.404 | 7.405 | 7.404 | 7.404 | 7.405 | 7.404 | 7.404 | 7.354-7.454 | 7.404 | 0.000 |
| 23 Methoxychlor | 7.629 | 7.630 | 7.630 | 7.630 | 7.630 | 7.630 | 7.629 | 7.629 | 7.579-7.679 | 7.630 | 0.000 |
| 24 Endrin ketone | 7.881 | 7.882 | 7.882 | 7.882 | 7.882 | 7.882 | 7.881 | 7.881 | 7.831-7.931 | 7.882 | 0.000 |
| 25 Decachlorobiphenyl | 8.908 | 8.909 | 8.908 | 8.909 | 8.908 | 8.909 | 8.908 | 8.908 | 8.858-8.958 | 8.908 | 0.000 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.475 | 5.425-5.525 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.051 | 5.001-5.101 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.171 | 5.121-5.221 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1.000 | 0.950-1.050 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1.000 | 0.950-1.050 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.025 | 6.975-7.075 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.230 | 8.180-8.280 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 9.714 | 9.664-9.764 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.791 | 11.741-11.841 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.607 | 6.557-6.657 | ++++ | ++++ |
| 38 2,4-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.909 | 5.859-5.959 | ++++ | ++++ |

052:01183

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m

Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b

Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 39 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.399 | 6.349-6.449 | +++++ | +++++ |
| 40 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.685 | 6.635-6.735 | +++++ | +++++ |
| 41 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.770 | 1.720-1.820 | +++++ | +++++ |
| 42 Oxychlorane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.644 | 5.594-5.694 | +++++ | +++++ |
| 43 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.006 | 5.956-6.056 | +++++ | +++++ |
| 44 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.734 | 6.684-6.784 | +++++ | +++++ |
| 45 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.863 | 7.813-7.913 | +++++ | +++++ |
| 46 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.449-21.549 | +++++ | +++++ |
| 56 Tech-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.991 | 5.941-6.041 | +++++ | +++++ |
| 47 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.821-4.921 | +++++ | +++++ |
| 48 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.590-6.690 | +++++ | +++++ |
| 49 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.065-8.165 | +++++ | +++++ |
| 50 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.236-11.336 | +++++ | +++++ |
| 51 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.477-6.577 | +++++ | +++++ |
| 53 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.292-6.392 | +++++ | +++++ |
| 54 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.791-6.891 | +++++ | +++++ |

US2:01154

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b
Inst ID: ecd6.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A016 | 0523A017 | 0523A018 | 0523A019 | 0523A020 | 0523A021 | 0523A022 |
| INJ.DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ.TIME: | 17:27 | 17:45 | 18:03 | 18:21 | 18:39 | 18:56 | 19:14 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.113 | 2.063-2.163 | +++++ | +++++ |
| * 52 1Bromo-2nitrobenzene | 2.855 | 2.854 | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.855 | 2.805-2.905 | 2.855 | 0.000 |
| * 55 Hexabromobiphenyl | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.355 | 9.305-9.405 | 9.355 | 0.000 |
| \$ 2 Tetrachloro-m-xylene | 3.589 | 3.590 | 3.589 | 3.589 | 3.589 | 3.588 | 3.587 | 3.588 | 3.538-3.638 | 3.589 | 0.001 |
| 3 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.995 | 3.945-4.045 | +++++ | +++++ |
| 4 alpha-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.108 | 4.058-4.158 | +++++ | +++++ |
| 5 gamma-BHC (Lindane) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.429 | 4.379-4.479 | +++++ | +++++ |
| 6 beta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.502 | 4.452-4.552 | +++++ | +++++ |
| 7 delta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.782 | 4.732-4.832 | +++++ | +++++ |
| 8 Heptachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.849 | 4.799-4.899 | +++++ | +++++ |
| 37 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.588 | 14.538-14.638 | +++++ | +++++ |
| 9 Aldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.121-5.221 | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.680 | 12.630-12.730 | +++++ | +++++ |
| 11 Heptachlor epoxide b | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.733 | 5.683-5.783 | +++++ | +++++ |
| 12 gamma-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.918 | 5.868-5.968 | +++++ | +++++ |
| 13 alpha-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.057 | 6.007-6.107 | +++++ | +++++ |
| 14 Endosulfan I | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.118 | 6.068-6.168 | +++++ | +++++ |

Reviewer 1 _____
Reviewer 2 _____

AP Date: 5/23/2012
Date: 5/24/12

JUN 10 09:18:55

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 15 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.208 | 6.158-6.258 | +++++ | +++++ |
| 16 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.377 | 6.327-6.427 | +++++ | +++++ |
| 17 Endrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.664 | 6.614-6.714 | +++++ | +++++ |
| 18 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.749 | 6.699-6.799 | +++++ | +++++ |
| 19 Endosulfan II | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.857 | 6.807-6.907 | +++++ | +++++ |
| 20 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.034 | 6.984-7.084 | +++++ | +++++ |
| 21 Endrin aldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.158 | 7.108-7.208 | +++++ | +++++ |
| 22 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.404 | 7.354-7.454 | +++++ | +++++ |
| 23 Methoxychlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.629 | 7.579-7.679 | +++++ | +++++ |
| 24 Endrin ketone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.881 | 7.831-7.931 | +++++ | +++++ |
| \$ 25 Decachlorobiphenyl | 8.908 | 8.909 | 8.908 | 8.909 | 8.908 | 8.908 | 8.909 | 8.908 | 8.858-8.958 | 8.909 | 0.000 |
| 26 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.475 | 5.425-5.525 | +++++ | +++++ |
| 27 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051 | 5.001-5.101 | +++++ | +++++ |
| 28 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.121-5.221 | +++++ | +++++ |
| 29 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 30 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 31 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.025 | 6.975-7.075 | +++++ | +++++ |
| 32 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.230 | 8.180-8.280 | +++++ | +++++ |
| 33 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714 | 9.664-9.764 | +++++ | +++++ |
| 34 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791 | 11.741-11.841 | +++++ | +++++ |
| 35 Toxaphene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.607 | 6.557-6.657 | +++++ | +++++ |
| 38 2,4'-DDE | 5.911 | 5.912 | 5.912 | 5.912 | 5.911 | 5.911 | 5.909 | 5.909 | 5.859-5.959 | 5.911 | 0.001 |

052:01186

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523B.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-2.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 39 2,4-DDD | 6.400 | 6.401 | 6.401 | 6.401 | 6.401 | 6.399 | 6.399 | 6.399 | 6.349-6.449 | 6.400 | 0.001 |
| 40 2,4-DDT | 6.685 | 6.686 | 6.685 | 6.686 | 6.686 | 6.685 | 6.685 | 6.685 | 6.635-6.735 | 6.685 | 0.000 |
| 41 Hexachloroethane | 1.743 | 1.742 | 1.743 | 1.742 | 1.743 | 1.732 | 1.770 | 1.770 | 1.720-1.820 | 1.745 | 0.012 |
| 42 Oxychlorane | 5.644 | 5.644 | 5.643 | 5.643 | 5.644 | 5.643 | 5.644 | 5.644 | 5.594-5.694 | 5.643 | 0.000 |
| 43 trans-Nonachlor | 6.007 | 6.006 | 6.006 | 6.006 | 6.006 | 6.006 | 6.006 | 6.006 | 5.956-6.056 | 6.006 | 0.000 |
| 44 cis-Nonachlor | 6.733 | 6.734 | 6.733 | 6.733 | 6.734 | 6.733 | 6.734 | 6.734 | 6.684-6.784 | 6.734 | 0.000 |
| 45 Mirex | 7.862 | 7.862 | 7.862 | 7.862 | 7.862 | 7.862 | 7.863 | 7.863 | 7.813-7.913 | 7.862 | 0.000 |
| 46 bis-(2-ethylhexyl) Pht | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 21.499 | 21.449-21.549 | ++++ | ++++ |
| 56 Tech-Chlordane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.991 | 5.941-6.041 | ++++ | ++++ |
| 47 Trifluralin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.871 | 4.821-4.921 | ++++ | ++++ |
| 48 Dacthal | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.640 | 6.590-6.690 | ++++ | ++++ |
| 49 Oxadiazon | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.115 | 8.065-8.165 | ++++ | ++++ |
| 50 Kelthane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.286 | 11.236-11.336 | ++++ | ++++ |
| 51 Chlorpyrifos | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.527 | 6.477-6.577 | ++++ | ++++ |
| 53 Methyl Parathion | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.342 | 6.292-6.392 | ++++ | ++++ |
| 54 Ethyl Parathion | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.841 | 6.791-6.891 | ++++ | ++++ |

USB2:01187

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A017.d
 Level 2: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A018.d
 Level 3: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A019.d
 Level 4: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A020.d
 Level 5: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A016.d
 Level 6: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A021.d
 Level 7: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A022.d

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 1 Hexachlorobutadiene | 1.88872 1.70256 | 1.77604 | 1.68503 | 1.78958 | 1.77040 | 1.73608 | 1.76406 | 3.816 |
| 3 Hexachlorobenzene | 1.20228 1.06897 | 1.15344 | 1.04806 | 1.07451 | 1.08289 | 1.07210 | 1.10032 | 5.073 |
| 4 alpha-BHC | 1.39612 1.70058 | 1.53620 | 1.50517 | 1.63944 | 1.68856 | 1.70715 | 1.59618 | 7.480 |
| 5 gamma-BHC (Lindane) | 1.26312 1.43301 | 1.25630 | 1.23450 | 1.35124 | 1.40623 | 1.42837 | 1.33897 | 6.469 |
| 6 beta-BHC | 0.60743 0.59916 | 0.61140 | 0.56388 | 0.58391 | 0.59950 | 0.60228 | 0.59537 | 2.747 |
| 7 delta-BHC | 1.08522 1.31839 | 1.06357 | 1.03298 | 1.13077 | 1.23200 | 1.28885 | 1.16454 | 9.829 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 8 Heptachlor | 1.46363 1.48762 | 1.44091 | 1.38829 | 1.50505 | 1.53322 | 1.52778 | 1.47807 | 3.492 |
| 9 Aldrin | 1.30408 1.41363 | 1.27599 | 1.25380 | 1.38088 | 1.42377 | 1.43811 | 1.35575 | 5.619 |
| 38 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 11 Heptachlor epoxide b | 1.23789 1.20943 | 1.21621 | 1.11886 | 1.20880 | 1.22969 | 1.23007 | 1.20728 | 3.358 |
| 12 gamma-Chlordane | 1.38598 1.33602 | 1.25282 | 1.20540 | 1.29376 | 1.33807 | 1.35141 | 1.30906 | 4.773 |
| 13 alpha-Chlordane | 1.30870 1.26599 | 1.20152 | 1.15871 | 1.24483 | 1.26662 | 1.27409 | 1.24578 | 4.033 |
| 14 Endosulfan I | 1.72885 1.52812 | 1.63360 | 1.56273 | 1.68352 | 1.64388 | 1.62628 | 1.62957 | 4.174 |
| 15 4,4'-DDE | 0.70208 0.99862 | 0.67872 | 0.71553 | 0.78675 | 0.91177 | 0.95210 | 0.82079 | 16.014 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 16 Dieldrin | 1.27966 1.30342 | 1.25003 | 1.24004 | 1.33060 | 1.34586 | 1.33253 | 1.29745 | 3.235 |
| 17 Endrin | 0.85628 0.84319 | 0.81804 | 0.84929 | 0.88010 | 0.89526 | 0.87960 | 0.86025 | 3.076 |
| 18 4,4'-DDD | 0.62939 0.74295 | 0.59674 | 0.62860 | 0.66438 | 0.73195 | 0.74735 | 0.67734 | 9.245 |
| 19 Endosulfan II | 0.85104 0.81701 | 0.80549 | 0.82486 | 0.85001 | 0.86262 | 0.84951 | 0.83722 | 2.542 |
| 20 4,4'-DDT | 0.68664 0.80730 | 0.65778 | 0.70238 | 0.74089 | 0.79613 | 0.81592 | 0.74386 | 8.567 |
| 21 Endrin aldehyde | 0.72128 0.64594 | 0.66305 | 0.66577 | 0.67406 | 0.68474 | 0.67136 | 0.67517 | 3.486 |
| 22 Methoxychlor | 0.39949 0.35903 | 0.39217 | 0.38207 | 0.37662 | 0.37263 | 0.37087 | 0.37898 | 3.595 |
| 23 Endosulfan sulfate | 0.77329 0.71546 | 0.71618 | 0.72561 | 0.73532 | 0.74824 | 0.73836 | 0.73607 | 2.756 |
| 24 Endrin ketone | 1.04699 0.87329 | 0.94034 | 0.92552 | 0.91862 | 0.92510 | 0.90208 | 0.93314 | 5.852 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 26 Aroclor-1016(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 27 Aroclor-1221(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 28 Aroclor-1232(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 29 Aroclor-1242(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (6) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 30 Aroclor-1248(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 31 Aroclor-1254(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 32 Aroclor-1260(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 33 Aroclor-1262(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------|---------|---------|---------|---------|---------|---------|-------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 34 Aroclor-1268 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | RRF | % RSD |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 35 Toxaphene(1) | +++++ | +++++ | +++++ | +++++ | 0.03802 | +++++ | | |
| | +++++ | | | | | | 0.03802 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | 0.02912 | +++++ | | |
| | +++++ | | | | | | 0.02912 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | 0.02684 | +++++ | | |
| | +++++ | | | | | | 0.02684 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | 0.02887 | +++++ | | |
| | +++++ | | | | | | 0.02887 | 0.000 |
| (5) | +++++ | +++++ | +++++ | +++++ | 0.04401 | +++++ | | |
| | +++++ | | | | | | 0.04401 | 0.000 |
| (6) | +++++ | +++++ | +++++ | +++++ | 0.03084 | +++++ | | |
| | +++++ | | | | | | 0.03084 | 0.000 |
| 39 2,4-DDE | 0.54233 | 0.50049 | 0.48899 | 0.50758 | 0.54424 | 0.53370 | | |
| | 0.53236 | | | | | | 0.52138 | 4.224 |
| 40 2,4-DDD | 0.53645 | 0.47855 | 0.47289 | 0.49058 | 0.46188 | 0.45681 | | |
| | 0.46607 | | | | | | 0.48046 | 5.643 |
| 41 2,4-DDT | 0.68718 | 0.61840 | 0.60053 | 0.62111 | 0.64140 | 0.63097 | | |
| | 0.63122 | | | | | | 0.63297 | 4.289 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 43 Oxychlorane | 0.78102 0.72010 | 0.74991 | 0.72651 | 0.72992 | 0.74863 | 0.72658 | 0.74038 | 2.872 |
| 44 trans-Nonachlor | 1.04852 0.90973 | 0.94887 | 0.91452 | 0.93142 | 0.95066 | 0.92504 | 0.94697 | 5.008 |
| 45 cis-Nonachlor | 1.08923 1.04900 | 1.02644 | 1.00781 | 1.04071 | 1.07304 | 1.05193 | 1.04831 | 2.605 |
| 46 Mirex | 0.83026 0.63953 | 0.73297 | 0.67997 | 0.66455 | 0.66748 | 0.64619 | 0.69442 | 9.679 |
| 47 bis-(2-ethylhexyl) Phthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 59 Tech-Chlordane(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 14:29
 End Cal Date : 23-MAY-2012 19:14
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd6.i/20120523PEST.b/PEST0523.m
 Cal Date : 24-May-2012 09:31 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Tetrachloro-m-xylene | 1.34854 0.99719 | 1.26005 | 1.15136 | 1.18735 | 1.18196 | 1.15978 | 1.18375 | 9.087 |
| \$ 25 Decachlorobiphenyl | 1.07817 0.79634 | 0.94842 | 0.90099 | 0.88298 | 0.85491 | 0.82913 | 0.89871 | 10.375 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20120523PEST.b/ical-1.b

ARI Job No.: DS Method: PEST0523.m Instrument: ecd6.i Date: 23-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1354 | 0523A004.d | DS | | 1 | NO MANUAL INTEGRATION |
| 1412 | 0523A005.d | IB | | 1 | NO MANUAL INTEGRATION |
| 1429 | 0523A006.d | INDAE | | 1 | NO MANUAL INTEGRATION |
| 1447 | 0523A007.d | INDAA | | 1 | NO MANUAL INTEGRATION |
| 1505 | 0523A008.d | INDAB | | 1 | NO MANUAL INTEGRATION |
| 1523 | 0523A009.d | INDAC | | 1 | NO MANUAL INTEGRATION |
| 1541 | 0523A010.d | INDAD | | 1 | NO MANUAL INTEGRATION |
| 1558 | 0523A011.d | INDAF | | 1 | NO MANUAL INTEGRATION |
| 1616 | 0523A012.d | INDAG | | 1 | NO MANUAL INTEGRATION |
| 1634 | 0523A013.d | INDA ICV | | 1 | NO MANUAL INTEGRATION |
| 1652 | 0523A014.d | HCBD/ICV | | 1 | NO MANUAL INTEGRATION |
| 1710 | 0523A015.d | TOXAPH 2500 | | 1 | NO MANUAL INTEGRATION |
| 1727 | 0523A016.d | WNDE | | 1 | NO MANUAL INTEGRATION |
| 1745 | 0523A017.d | WNDA | | 1 | NO MANUAL INTEGRATION |
| 1803 | 0523A018.d | WNDB | | 1 | NO MANUAL INTEGRATION |
| 1821 | 0523A019.d | WNDC | | 1 | NO MANUAL INTEGRATION |
| 1839 | 0523A020.d | WNDD | | 1 | NO MANUAL INTEGRATION |
| 1856 | 0523A021.d | WNDF | | 1 | NO MANUAL INTEGRATION |
| 1874 | 0523A022.d | WNDG | | 1 | NO MANUAL INTEGRATION |
| 1932 | 0523A023.d | WND ICV | | 1 | NO MANUAL INTEGRATION |
| 1950 | 0523A024.d | 2/4-DDTS ICV | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20120523PEST.b/ical-1.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-------|----------|----|-------------------------------|
| 2008 | 0523A025.d | TECH | 200 | 1 | NO MANUAL INTEGRATION |
| 2025 | 0523A026.d | DDT | RT | 1 | NO MANUAL INTEGRATION |

U52: 01200

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A006 | 0523A007 | 0523A008 | 0523A009 | 0523A010 | 0523A011 | 0523A012 |
| INJ.DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ.TIME: | 14:29 | 14:47 | 15:05 | 15:23 | 15:41 | 15:58 | 16:16 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | 2.053 | 2.053 | 2.053 | 2.053 | 2.053 | 2.053 | 2.053 | 2.053 | 2.003-2.103 | 2.053 | 0.000 |
| * 54 1Bromo-2nitrobenzene | 2.797 | 2.796 | 2.796 | 2.796 | 2.796 | 2.797 | 2.797 | 2.797 | 2.747-2.847 | 2.796 | 0.000 |
| * 58 Hexabromobiphenyl | 8.390 | 8.390 | 8.390 | 8.390 | 8.390 | 8.390 | 8.390 | 8.390 | 8.340-8.440 | 8.390 | 0.000 |
| S 2 Tetrachloro-m-xylene | 3.407 | 3.408 | 3.408 | 3.408 | 3.407 | 3.406 | 3.406 | 3.407 | 3.357-3.457 | 3.407 | 0.001 |
| 3 Hexachlorobenzene | 3.718 | 3.720 | 3.720 | 3.720 | 3.719 | 3.718 | 3.717 | 3.718 | 3.668-3.768 | 3.719 | 0.001 |
| 4 alpha-BHC | 3.847 | 3.846 | 3.847 | 3.847 | 3.846 | 3.846 | 3.847 | 3.847 | 3.797-3.897 | 3.846 | 0.000 |
| 5 gamma-BHC (Lindane) | 4.106 | 4.106 | 4.107 | 4.106 | 4.106 | 4.106 | 4.106 | 4.106 | 4.056-4.156 | 4.106 | 0.000 |
| 6 beta-BHC | 4.184 | 4.188 | 4.187 | 4.186 | 4.185 | 4.183 | 4.182 | 4.184 | 4.134-4.234 | 4.185 | 0.002 |
| 7 delta-BHC | 4.340 | 4.342 | 4.342 | 4.342 | 4.340 | 4.338 | 4.337 | 4.340 | 4.290-4.390 | 4.340 | 0.002 |
| 8 Heptachlor | 4.518 | 4.517 | 4.518 | 4.517 | 4.517 | 4.518 | 4.518 | 4.518 | 4.468-4.568 | 4.518 | 0.000 |
| 9 Aldrin | 4.788 | 4.787 | 4.787 | 4.787 | 4.787 | 4.787 | 4.787 | 4.788 | 4.738-4.838 | 4.787 | 0.000 |
| 38 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.627 | 13.577-13.677 | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.869 | 10.819-10.919 | +++++ | +++++ |
| 11 Heptachlor epoxide b | 5.346 | 5.346 | 5.346 | 5.346 | 5.345 | 5.346 | 5.346 | 5.346 | 5.296-5.396 | 5.346 | 0.000 |
| 12 gamma-Chlordane | 5.471 | 5.471 | 5.471 | 5.470 | 5.470 | 5.470 | 5.470 | 5.471 | 5.421-5.521 | 5.470 | 0.000 |
| 13 alpha-Chlordane | 5.594 | 5.594 | 5.595 | 5.594 | 5.593 | 5.594 | 5.594 | 5.594 | 5.544-5.644 | 5.594 | 0.000 |
| 14 Endosulfan I | 5.722 | 5.722 | 5.722 | 5.722 | 5.721 | 5.722 | 5.722 | 5.722 | 5.672-5.772 | 5.722 | 0.000 |

Reviewer 1 _____
Reviewer 2 _____

AR Date: 5/24/2012
Date: 5/27/2012

01201

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 15 4,4'-DDE | 5.673 | 5.676 | 5.677 | 5.675 | 5.674 | 5.671 | 5.670 | 5.673 | 5.623-5.723 | 5.674 | 0.003 |
| 16 Dieldrin | 5.947 | 5.946 | 5.947 | 5.946 | 5.946 | 5.946 | 5.946 | 5.947 | 5.896-5.997 | 5.946 | 0.000 |
| 17 Endrin | 6.163 | 6.163 | 6.164 | 6.163 | 6.163 | 6.163 | 6.163 | 6.163 | 6.113-6.213 | 6.163 | 0.000 |
| 18 4,4'-DDD | 6.230 | 6.233 | 6.233 | 6.233 | 6.231 | 6.228 | 6.227 | 6.230 | 6.180-6.280 | 6.231 | 0.002 |
| 19 Endosulfan II | 6.371 | 6.371 | 6.372 | 6.371 | 6.371 | 6.371 | 6.371 | 6.371 | 6.321-6.421 | 6.371 | 0.000 |
| 20 4,4'-DDT | 6.485 | 6.486 | 6.486 | 6.486 | 6.485 | 6.484 | 6.483 | 6.485 | 6.435-6.535 | 6.485 | 0.001 |
| 21 Endrin aldehyde | 6.749 | 6.749 | 6.750 | 6.749 | 6.748 | 6.749 | 6.748 | 6.749 | 6.699-6.799 | 6.749 | 0.000 |
| 22 Methoxychlor | 6.923 | 6.926 | 6.925 | 6.925 | 6.924 | 6.923 | 6.923 | 6.923 | 6.873-6.973 | 6.924 | 0.001 |
| 23 Endosulfan sulfate | 7.138 | 7.138 | 7.139 | 7.138 | 7.138 | 7.138 | 7.138 | 7.138 | 7.088-7.188 | 7.138 | 0.000 |
| 24 Endrin ketone | 7.389 | 7.389 | 7.389 | 7.388 | 7.388 | 7.388 | 7.388 | 7.389 | 7.339-7.439 | 7.388 | 0.000 |
| 25 Decachlorobiphenyl | 8.250 | 8.250 | 8.251 | 8.250 | 8.250 | 8.251 | 8.250 | 8.250 | 8.200-8.300 | 8.250 | 0.000 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.355 | 5.305-5.405 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.881 | 4.831-4.931 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.359 | 5.309-5.409 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.348 | 5.298-5.398 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.072 | 6.022-6.122 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1.000 | 0.950-1.050 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.830 | 7.780-7.880 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.301 | 8.251-8.351 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.259 | 11.209-11.309 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.427 | 6.377-6.477 | ++++ | ++++ |
| 39 2,4'-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.343 | 5.293-5.393 | ++++ | ++++ |

052:01202

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.832 | 5.782-5.882 | +++++ | +++++ |
| 41 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.071 | 6.021-6.121 | +++++ | +++++ |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.722 | 1.672-1.772 | +++++ | +++++ |
| 43 Oxychlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.254 | 5.204-5.304 | +++++ | +++++ |
| 44 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.582 | 5.532-5.632 | +++++ | +++++ |
| 45 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.199 | 6.149-6.249 | +++++ | +++++ |
| 46 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.065 | 7.015-7.115 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.106-20.206 | +++++ | +++++ |
| 59 Tech-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.558 | 4.508-4.608 | +++++ | +++++ |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.269-6.369 | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.886-9.986 | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.841-11.941 | +++++ | +++++ |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.777-14.877 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.700-9.800 | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.057-9.157 | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.201-10.301 | +++++ | +++++ |

052:01203

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A016 | 0523A017 | 0523A018 | 0523A019 | 0523A020 | 0523A021 | 0523A022 |
| INJ. DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ. TIME: | 17:27 | 17:45 | 18:03 | 18:21 | 18:39 | 18:56 | 19:14 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 2.053 | 2.003-2.103 | ++++ | ++++ |
| * 54 1Bromo-2nitrobenzene | 2.797 | 2.796 | 2.796 | 2.796 | 2.796 | 2.796 | 2.796 | 2.797 | 2.747-2.847 | 2.796 | 0.000 |
| * 58 Hexabromobiphenyl | 8.390 | 8.390 | 8.390 | 8.390 | 8.389 | 8.390 | 8.389 | 8.390 | 8.340-8.440 | 8.390 | 0.000 |
| \$ 2 Tetrachloro-m-xylene | 3.408 | 3.409 | 3.409 | 3.408 | 3.408 | 3.407 | 3.406 | 3.406 | 3.356-3.456 | 3.408 | 0.001 |
| 3 Hexachlorobenzene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 3.717 | 3.667-3.767 | ++++ | ++++ |
| 4 alpha-BHC | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 3.847 | 3.797-3.897 | ++++ | ++++ |
| 5 gamma-BHC (Lindane) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.106 | 4.056-4.156 | ++++ | ++++ |
| 6 beta-BHC | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.182 | 4.132-4.232 | ++++ | ++++ |
| 7 delta-BHC | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.337 | 4.287-4.387 | ++++ | ++++ |
| 8 Heptachlor | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.518 | 4.468-4.568 | ++++ | ++++ |
| 9 Aldrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.787 | 4.737-4.837 | ++++ | ++++ |
| 38 Chlorthalonil | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 13.627 | 13.577-13.677 | ++++ | ++++ |
| 10 Heptachlor Epoxide a | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 10.869 | 10.819-10.919 | ++++ | ++++ |
| 11 Heptachlor epoxide b | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.346 | 5.296-5.396 | ++++ | ++++ |
| 12 gamma-Chlordane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.470 | 5.420-5.520 | ++++ | ++++ |
| 13 alpha-Chlordane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.594 | 5.544-5.644 | ++++ | ++++ |
| 14 Endosulfan I | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.722 | 5.672-5.772 | ++++ | ++++ |

Reviewer 1 _____
Reviewer 2 _____

AP Date: 5/24/2012
AS Date: 5/24/12

0523A016

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 15 4,4'-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.670 | 5.620-5.720 | ++++ | ++++ |
| 16 Dieldrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.946 | 5.896-5.996 | ++++ | ++++ |
| 17 Endrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.163 | 6.113-6.213 | ++++ | ++++ |
| 18 4,4'-DDD | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.227 | 6.177-6.277 | ++++ | ++++ |
| 19 Endosulfan II | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.371 | 6.321-6.421 | ++++ | ++++ |
| 20 4,4'-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.483 | 6.433-6.533 | ++++ | ++++ |
| 21 Endrin aldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.748 | 6.698-6.798 | ++++ | ++++ |
| 22 Methoxychlor | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.923 | 6.873-6.973 | ++++ | ++++ |
| 23 Endosulfan sulfate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.138 | 7.088-7.188 | ++++ | ++++ |
| 24 Endrin ketone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.388 | 7.338-7.438 | ++++ | ++++ |
| 25 Decachlorobiphenyl | 8.250 | 8.250 | 8.251 | 8.250 | 8.250 | 8.250 | 8.251 | 8.250 | 8.200-8.300 | 8.250 | 0.000 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.355 | 5.305-5.405 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.881 | 4.831-4.931 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.359 | 5.309-5.409 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.348 | 5.298-5.398 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.072 | 6.022-6.122 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1.000 | 0.950-1.050 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.830 | 7.780-7.880 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.301 | 8.251-8.351 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 11.259 | 11.209-11.309 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.424 | 6.374-6.474 | ++++ | ++++ |
| 39 2,4-DDE | 5.343 | 5.346 | 5.345 | 5.344 | 5.344 | 5.342 | 5.341 | 5.343 | 5.293-5.393 | 5.344 | 0.002 |

052:01205

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Batch File: /chem2/ecd6.i/20120523PEST.b/ical-1.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | 5.832 | 5.835 | 5.834 | 5.834 | 5.833 | 5.831 | 5.830 | 5.832 | 5.782-5.883 | 5.833 | 0.002 |
| 41 2,4-DDT | 6.070 | 6.071 | 6.070 | 6.070 | 6.070 | 6.069 | 6.068 | 6.070 | 6.020-6.120 | 6.070 | 0.001 |
| 42 Hexachloroethane | 1.708 | 1.720 | 1.720 | 1.720 | 1.719 | 1.720 | 1.719 | 1.708 | 1.658-1.758 | 1.718 | 0.005 |
| 43 Oxychlordane | 5.252 | 5.252 | 5.252 | 5.252 | 5.252 | 5.252 | 5.252 | 5.252 | 5.202-5.302 | 5.252 | 0.000 |
| 44 trans-Nonachlor | 5.581 | 5.581 | 5.581 | 5.580 | 5.580 | 5.581 | 5.580 | 5.581 | 5.531-5.631 | 5.581 | 0.000 |
| 45 cis-Nonachlor | 6.198 | 6.198 | 6.198 | 6.198 | 6.198 | 6.198 | 6.197 | 6.198 | 6.148-6.248 | 6.198 | 0.000 |
| 46 Mirex | 7.063 | 7.063 | 7.063 | 7.063 | 7.063 | 7.063 | 7.063 | 7.063 | 7.013-7.113 | 7.063 | 0.000 |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.106-20.206 | +++++ | +++++ |
| 59 Tech-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.558 | 4.508-4.608 | +++++ | +++++ |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.269-6.369 | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.886-9.986 | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.841-11.941 | +++++ | +++++ |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.777-14.877 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.700-9.800 | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.057-9.157 | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.201-10.301 | +++++ | +++++ |

US2:01206

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 2646445 | 4841592 | 82.9 |
| Hexabromobiphenyl | 3761841 | 6506091 | 72.9 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 9546244 | 16226991 | 70.0 |
| Hexabromobiphenyl | 5592240 | 8472750 | 51.5 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|-------------|-------|----|-------|--------|----------|-------|----|-------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120523PEST

Analysis Date: 23-MAY-2012 13:54

Init. Calib. Date: 23-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 5.673 | 42910 |
| Endrin | 6.163 | 7390015 |
| 4,4'-DDD | 6.230 | 251827 |
| 4,4'-DDT | 6.484 | 6473273 |
| Endrin ketone | 7.388 | 265127 |
| Endrin aldehyde | 6.749 | 74504 |

DDT Percent Breakdown = 4.4 %
 $((42910+251827) * 100) / (42910+251827+6473273)$

Endrin Percent Breakdown = 4.4 %
 $((74504+265127) * 100) / (74504+265127+7390015)$

GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|----------|
| 4,4'-DDE | 6.210 | 154354 |
| Endrin | 6.664 | 13544217 |
| 4,4'-DDD | 6.750 | 540642 |
| 4,4'-DDT | 7.035 | 11643113 |
| Endrin ketone | 7.881 | 508138 |
| Endrin aldehyde | 7.158 | 236007 |

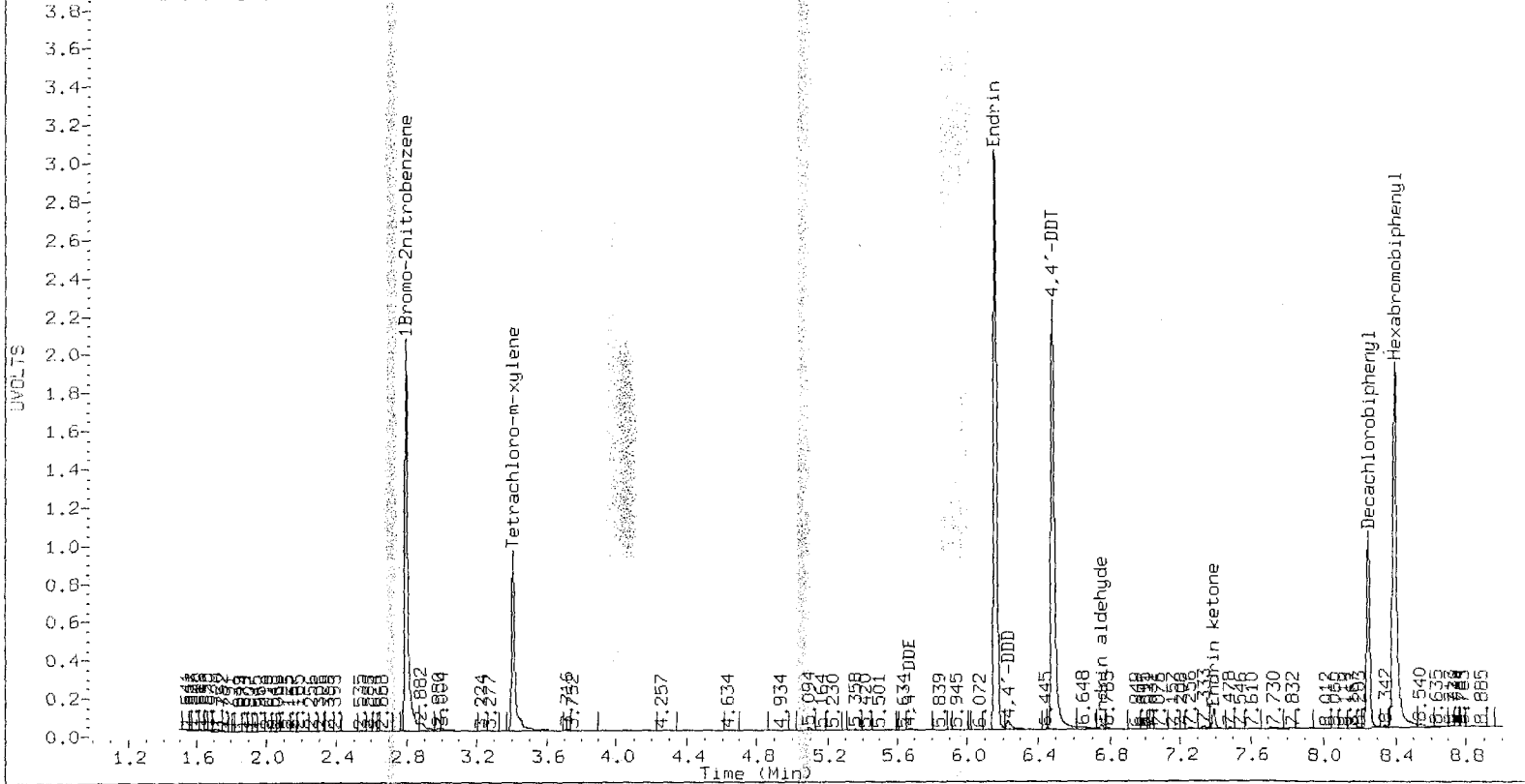
DDT Percent Breakdown = 5.6 %
 $((154354+540642) * 100) / (154354+540642+11643113)$

Endrin Percent Breakdown = 5.2 %
 $((236007+508138) * 100) / (236007+508138+13544217)$

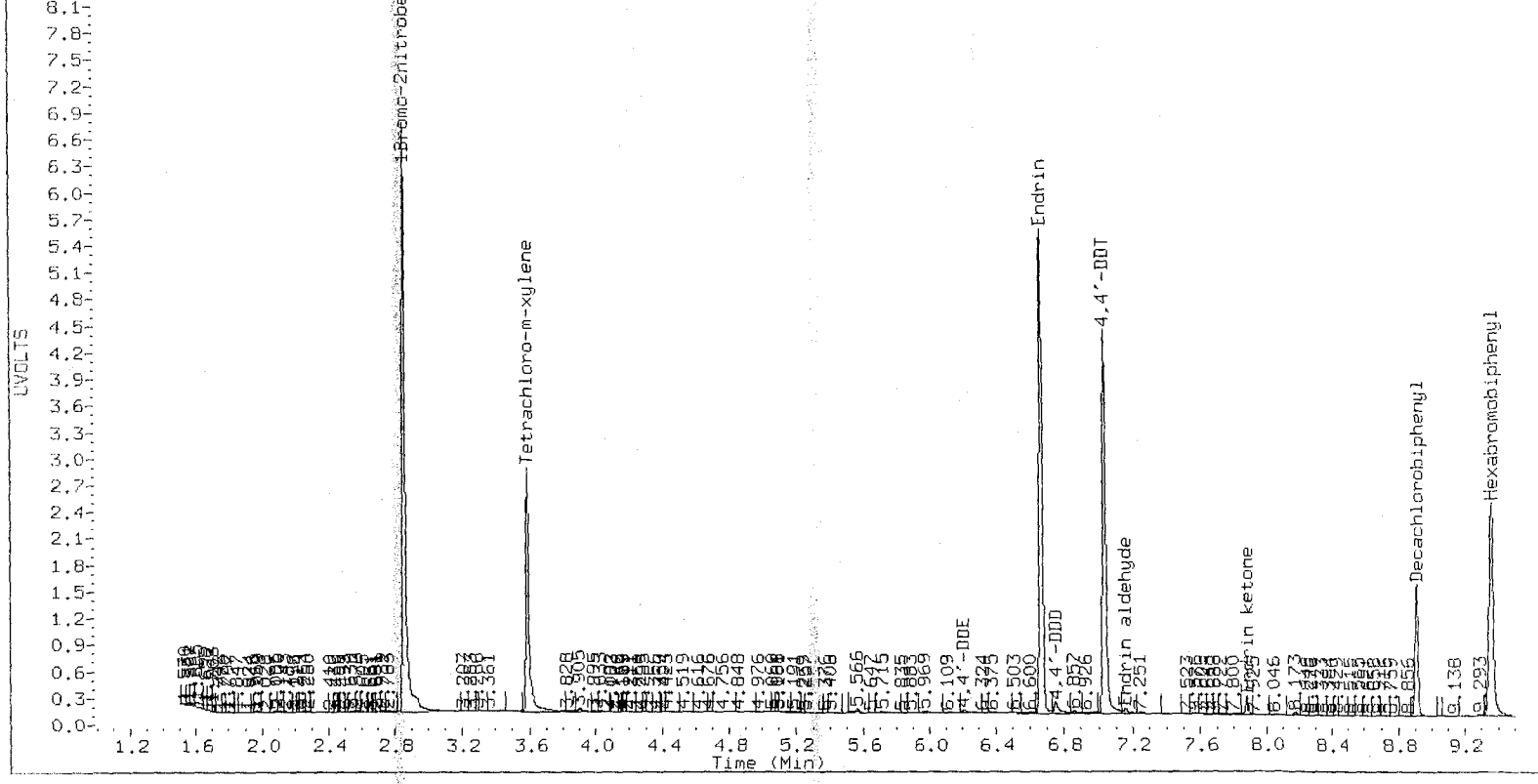
Form VII Pest-1

UU52:01208

chem2/ecd6.i/20120523PEST.b/ical-1a/b/0523A004.d
STX-CLP DS



chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A004.d
CLP2 DS



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A005.d ARI ID: IB
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A005.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 14:12
 Compound Sublist: wpest Report Date: 05/24/2012 10:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4843734 | 2.854 | 0.000 | 16148392 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| ---- | | | 4.103 | -0.005 | 7417 | 0.0000 | 0.0270 | --- | alpha-BHC |
| ---- | | | 4.471 | -0.031 | 3449 | 0.0000 | 0.0326 | --- | beta-BHC |
| ---- | | | 4.780 | -0.002 | 12743 | 0.0000 | 0.0649 | --- | delta-BHC |
| 4.107 | 0.001 | 2814 | 4.440 | 0.011 | 1046 | 0.0347 | 0.0045 | 154.5* | gamma-BHC (Lindane) |
| ---- | | | 4.847 | -0.003 | 8297 | 0.0000 | 0.0351 | --- | Heptachlor |
| ---- | | | 5.191 | 0.020 | 10199 | 0.0000 | 0.0498 | --- | Aldrin |
| 5.355 | 0.009 | 4713 | 5.714 | -0.019 | 41360 | 0.0645 | 0.2083 | 105.5* | Heptachlor epoxide b |
| ---- | | | 6.144 | 0.027 | 35288 | 0.0000 | 0.2042 | --- | Endosulfan I |
| 5.946 | 0.000 | 1413 | 6.376 | -0.001 | 82677 | 0.0180 | 0.4628 | 185.0* | Dieldrin |
| ---- | | | 6.224 | 0.016 | 36379 | 0.0000 | 0.2303 | --- | 4,4'-DDE |
| ---- | | | 6.659 | -0.006 | 67409 | 0.0000 | 0.4711 | --- | Endrin |
| 6.376 | 0.006 | 1340 | 6.864 | 0.007 | 14850 | 0.0199 | 0.1024 | 134.8* | Endosulfan II |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 4,4'-DDD |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | Endosulfan sulfate |
| 6.488 | 0.004 | 1018 | 7.019 | -0.015 | 10864 | 0.0171 | 0.0923 | 137.6* | 4,4'-DDT |
| 6.957 | 0.034 | 1538 | 7.611 | -0.018 | 3010 | 0.0506 | 0.0585 | 14.6 | Methoxychlor |
| 7.412 | 0.024 | 18078 | 7.909 | 0.027 | 4251 | 0.2414 | 0.0296 | 156.3* | Endrin ketone |
| 6.750 | 0.002 | 1529 | 7.157 | -0.002 | 9829 | 0.0282 | 0.0890 | 103.7* | Endrin aldehyde |
| 5.512 | 0.043 | 17962 | ---- | | | 0.2266 | 0.0000 | --- | gamma-Chlordane |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 2.046 | -0.007 | 1530 | 2.106 | -0.006 | 15680 | 0.0143 | 0.0525 | 114.3* | Hexachlorobutadiene |
| 3.717 | 0.000 | 36550 | 3.992 | -0.003 | 11843 | 0.5486 | 0.0472 | 168.3* | Hexachlorobenzene |
| 5.229 | -0.023 | 3048 | ---- | | | 0.0513 | 0.0000 | --- | Oxychlorthane |
| ---- | | | 5.914 | 0.005 | 4380 | 0.0000 | 0.0426 | --- | 2,4-DDE |
| ---- | | | 5.970 | -0.036 | 103136 | 0.0000 | 0.6069 | --- | trans-Nonachlor |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4-DDD |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4-DDT |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| ---- | | | 7.870 | 0.007 | 5530 | 0.0000 | 0.0537 | --- | Mirex |
| 8.389 | 0.000 | 6419201 | 9.355 | -0.001 | 8335866 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.719 | -0.001 | 2082 | 1.743 | -0.027 | 2685 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.407 | 0.001 | 2555655 | 3.589 | 0.001 | 7250841 | 35.6577 | 36.1831 | 1.5 | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 2415063 | 8.908 | 0.000 | 3848415 | 33.4904 | 33.3478 | 0.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01210

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 89.1 | 90.5 | 89.1~ | 130- 0 |
| Decachlorobiphenyl | 83.7 | 83.4 | 83.4~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4843734 | 0.0 |
| Hexabromobiphenyl | 6506091 | 6419201 | -1.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16148392 | -0.5 |
| Hexabromobiphenyl | 8472750 | 8335866 | -1.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | |
|-----------------------------|-------|-------|-------|--------|--------|--------------------------|-------|--------|--------|--------|-------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | |
| Toxaphene | 1 | --- | | | 0.000 | 1 | 6.571 | -0.035 | 21189 | 4.676 | |
| Toxaphene | 2 | 6.488 | 0.013 | 1018 | 0.436 | 2 | 6.929 | -0.003 | 57794 | 8.547 | |
| Toxaphene | 3 | 6.711 | 0.037 | 2730 | 1.267 | 3 | 7.157 | -0.009 | 9829 | 1.383 | |
| Toxaphene | 4 | --- | | | 0.000 | 4 | 7.611 | -0.014 | 3010 | 0.533 | |
| Toxaphene | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 | |
| Toxaphene | 6 | 7.412 | 0.037 | 18078 | 7.305 | NS | --- | | | ---- | |
| Total STX-CLPAve (3 peaks): | | | | | 3.003 | Total CLP2Ave (4 peaks): | | | | | 3.784 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave (3 peaks): | | | | | 2.197 |
| RPD = 23 | | | | | | | | | | | |

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1016 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1016 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1016 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1016 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1016 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1221 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1221 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1221 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1221 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1232 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1232 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1232 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1232 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1232 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|----|-----|--|--|-------|
| Aroclor-1242 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1242 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1242 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1242 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1242 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| Aroclor-1242 | 6 | --- | | | 0.000 | NS | --- | | | ---- |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

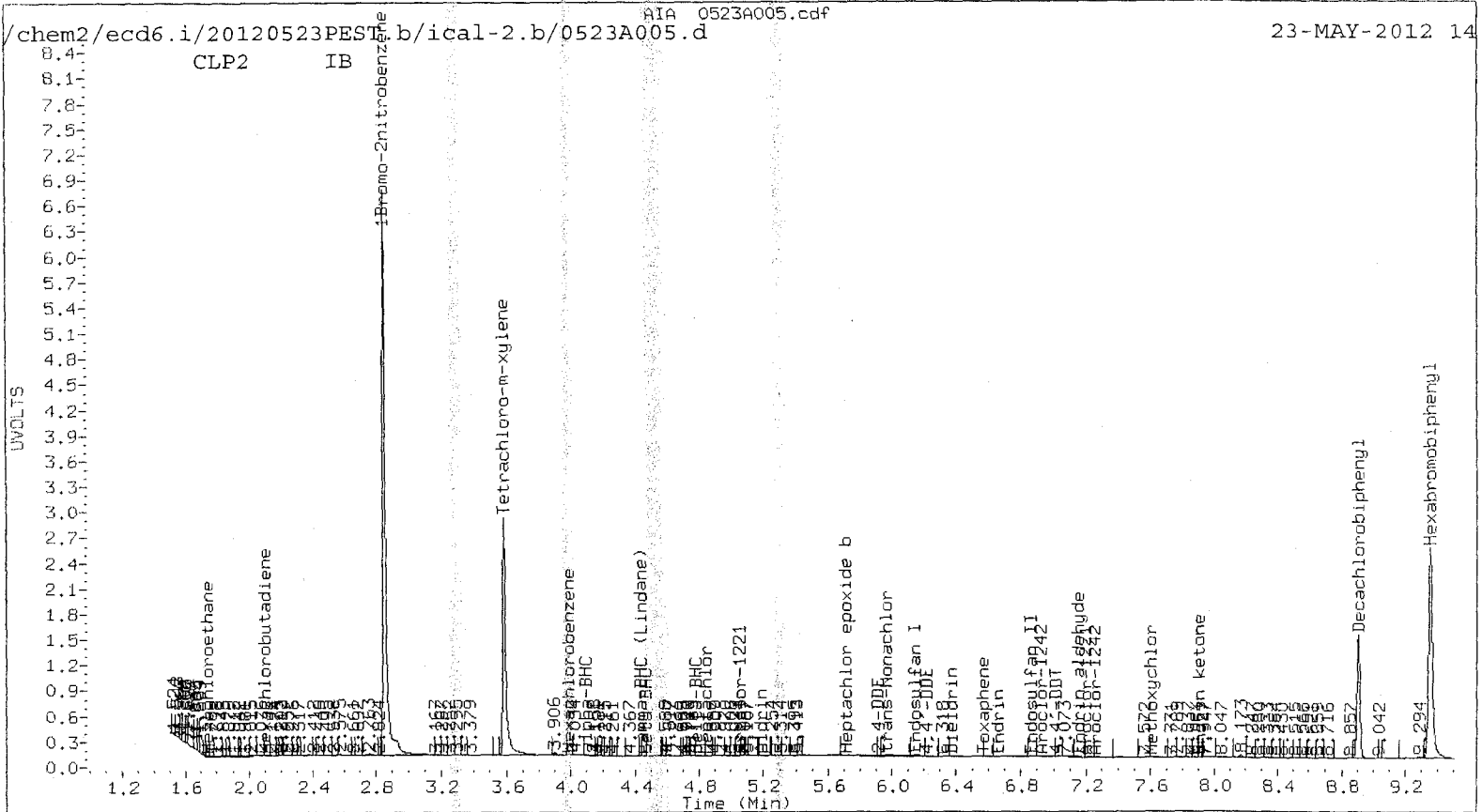
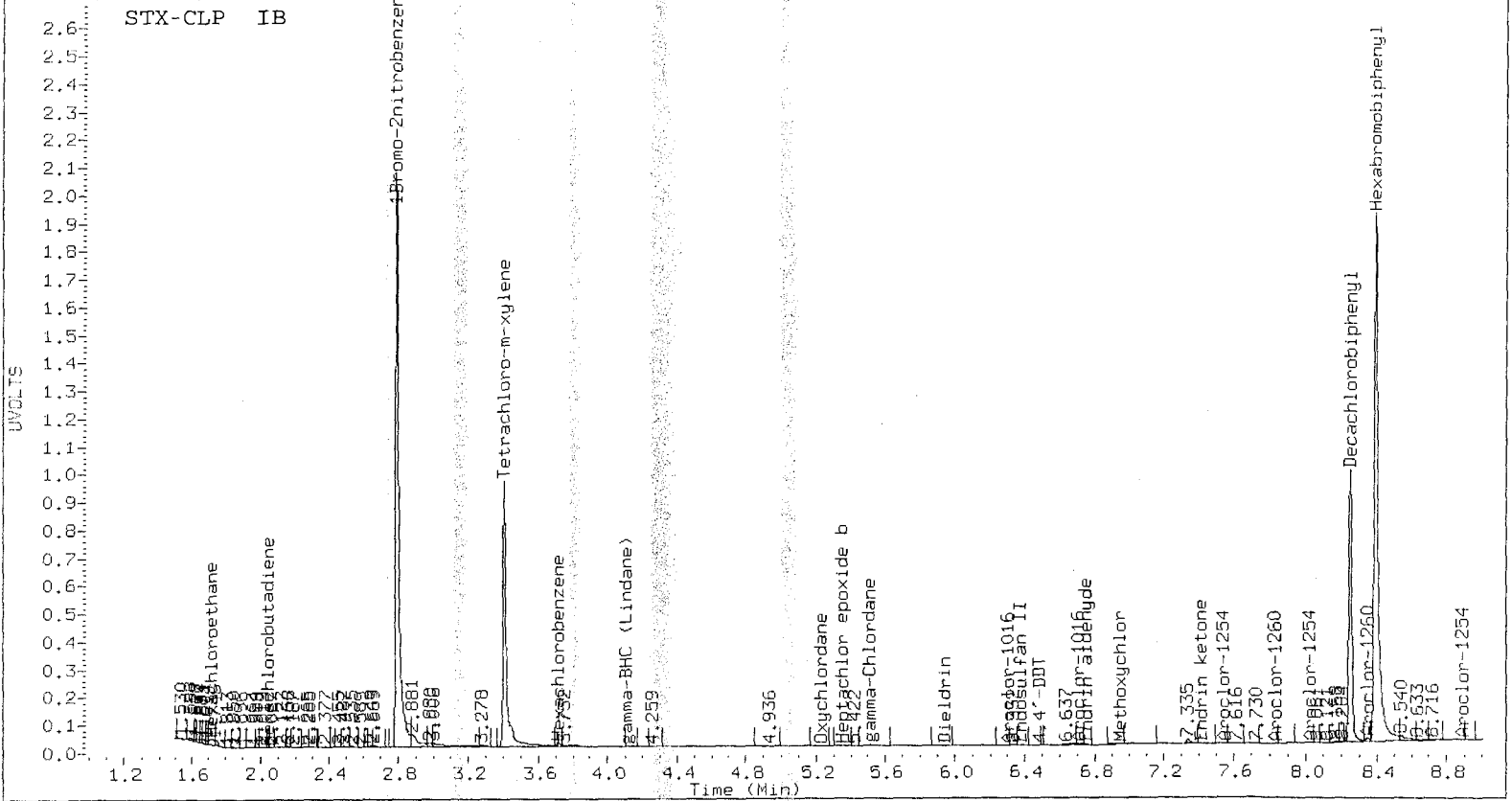
| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

STX-CLP IB



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A006.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A006.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 14:29
 Compound Sublist: INDA Report Date: 05/24/2012 10:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 2.797 | 0.000 4841592 | 2.855 0.000 16226991 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.847 | 0.000 2043826 | 4.107 -0.001 5613739 | 21.1575 | 20.3163 | 4.1 | alpha-BHC |
| 4.184 | 0.002 725632 | 4.503 0.001 2033842 | 20.1389 | 19.1342 | 5.1 | beta-BHC |
| 4.340 | 0.003 1491206 | 4.783 0.001 4071439 | 21.1585 | 20.6429 | 2.5 | delta-BHC |
| 4.106 | 0.000 1702095 | 4.428 0.000 4693388 | 21.0047 | 19.9071 | 5.4 | gamma-BHC (Lindane) |
| 4.518 | 0.000 1855801 | 4.849 -0.001 4539320 | 20.7462 | 19.1316 | 8.1 | Heptachlor |
| 4.788 | 0.000 1723325 | 5.170 0.000 4025734 | 21.0034 | 19.5755 | 7.0 | Aldrin |
| 5.346 | 0.000 1488419 | 5.732 -0.001 3842052 | 20.3713 | 19.2575 | 5.6 | Heptachlor epoxide b |
| 5.722 | 0.000 1989749 | 6.117 0.000 3304208 | 20.1756 | 19.0276 | 5.9 | Endosulfan I |
| 5.947 | 0.000 3258063 | 6.377 0.000 6970898 | 41.4926 | 38.8311 | 6.6 | Dieldrin |
| 5.673 | 0.003 2207200 | 6.209 0.001 6144210 | 44.4334 | 38.6998 | 13.8 | 4,4'-DDE |
| 6.163 | 0.000 2912313 | 6.664 -0.001 5720079 | 41.6277 | 39.3259 | 5.7 | Endrin |
| 6.371 | 0.000 2806136 | 6.857 0.000 5741272 | 41.2135 | 38.9578 | 5.6 | Endosulfan II |
| 6.230 | 0.002 2381080 | 6.749 0.001 4859578 | 43.2255 | 39.9809 | 7.8 | 4,4'-DDD |
| 7.138 | 0.001 2434072 | 7.404 0.000 4461530 | 40.6618 | 39.4028 | 3.1 | Endosulfan sulfate |
| 6.485 | 0.001 2589858 | 7.035 0.001 4818799 | 42.8107 | 40.2616 | 6.1 | 4,4'-DDT |
| 6.923 | 0.000 6060837 | 7.629 0.000 9359710 | 196.6453 | 179.0205 | 9.4 | Methoxychlor |
| 7.389 | 0.000 3009400 | 7.881 0.000 5723944 | 39.6557 | 39.2662 | 1.0 | Endrin ketone |
| 6.749 | 0.001 2227505 | 7.158 0.000 4368862 | 40.5671 | 38.9228 | 4.1 | Endrin aldehyde |
| 5.471 | 0.001 1619597 | 5.918 0.000 3607799 | 20.4431 | 19.4892 | 4.8 | gamma-Chlordane |
| 5.594 | 0.000 1533113 | 6.057 0.000 3377761 | 20.3346 | 19.1727 | 5.9 | alpha-Chlordane |
| 2.053 | 0.000 2142890 | 2.112 0.000 5754928 | 20.0719 | 19.1853 | 4.5 | Hexachlorobutadiene |
| 3.718 | 0.001 1310727 | 3.996 0.001 4938033 | 19.6831 | 19.5703 | 0.6 | Hexachlorobenzene |
| 8.390 | 0.000 6506091 | 9.355 -0.001 8472750 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 2861286 | 3.588 0.000 7927803 | 39.9397 | 39.3697 | 1.4 | Tetrachloro-m-xylene |
| 8.250 | 0.000 2781056 | 8.908 0.000 4395070 | 38.0507 | 37.4695 | 1.5 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 99.8 | 98.4 | 98.4~ | 115- 0 |
| Decachlorobiphenyl | 95.1 | 93.7 | 93.7~ | 115- 0 |

~ Indicates recovery outside QC Limits

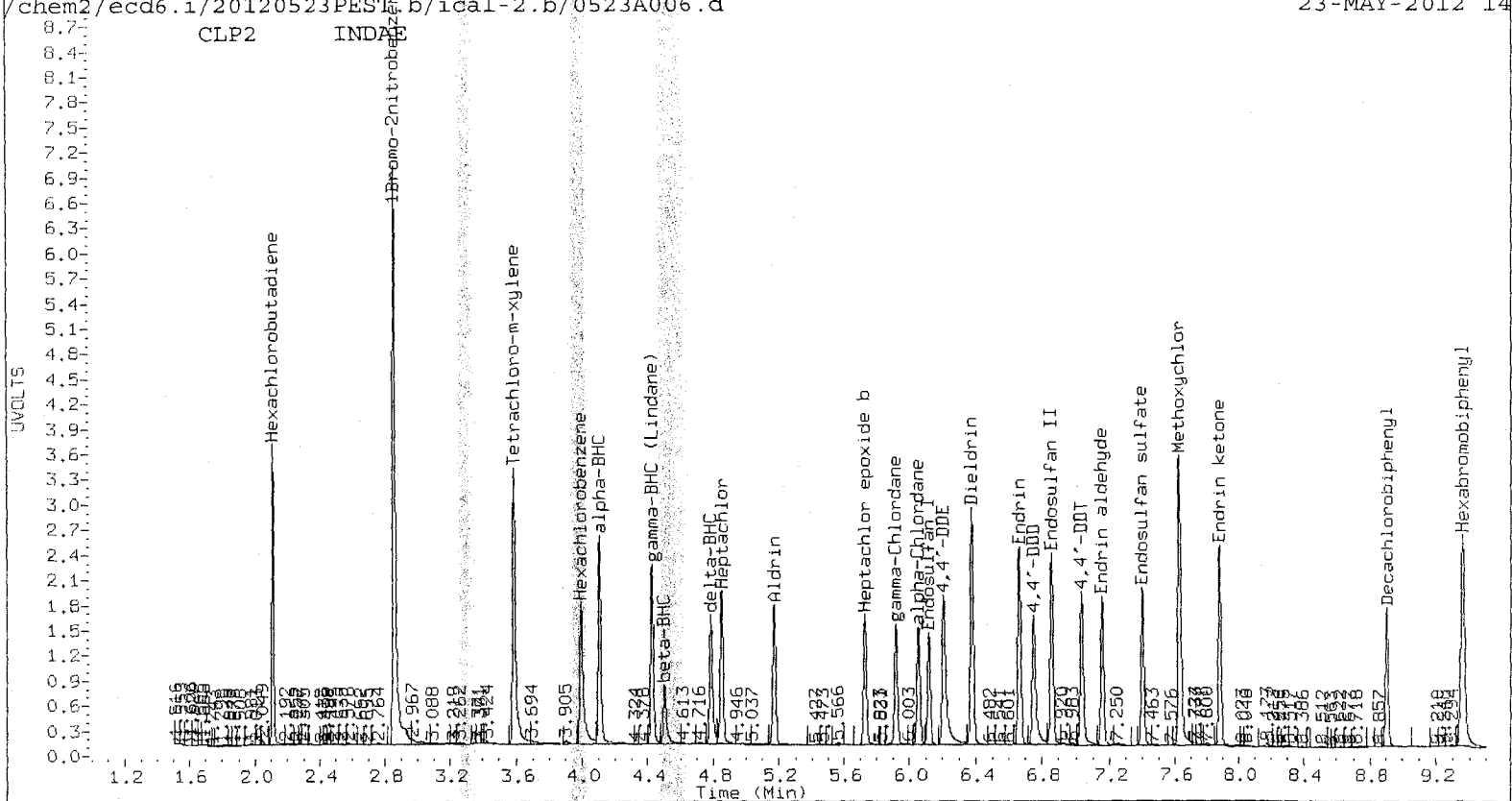
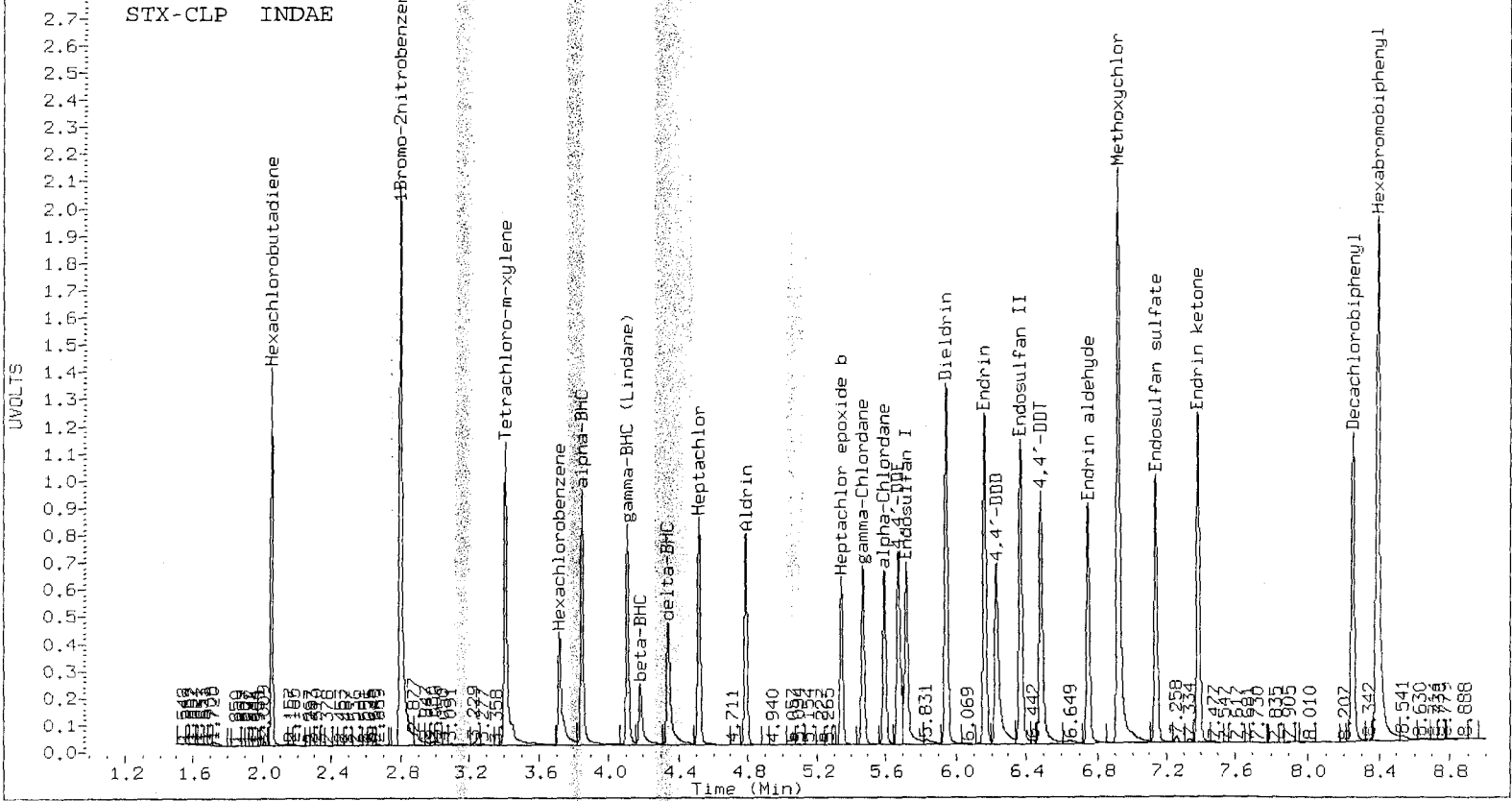
INTERNAL STANDARD SUMMARY

| Standard Cpd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4841592 | 0.0 |
| Hexabromobiphenyl | 6506091 | 6506091 | 0.0 |

| Standard Cpd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16226991 | 0.0 |
| Hexabromobiphenyl | 8472750 | 8472750 | 0.0 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A007.d ARI ID: INDAA
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A007.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 14:47
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|------|----------------------|
| 2.796 | 0.000 4662553 | 2.855 0.000 16229726 | 2.855 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | 0.000 101711 | 4.107 -0.001 337153 | 4.107 | 1.0933 | 1.2200 | 10.9 | alpha-BHC |
| 4.188 | 0.005 44253 | 4.505 0.003 158503 | 4.505 | 1.2753 | 1.4909 | 15.6 | beta-BHC |
| 4.342 | 0.005 79061 | 4.785 0.003 243836 | 4.785 | 1.1649 | 1.2361 | 5.9 | delta-BHC |
| 4.106 | 0.000 92021 | 4.428 -0.001 314175 | 4.428 | 1.1792 | 1.3324 | 12.2 | gamma-BHC (Lindane) |
| 4.517 | -0.001 106629 | 4.849 -0.001 339870 | 4.849 | 1.2378 | 1.4322 | 14.6 | Heptachlor |
| 4.787 | 0.000 95005 | 5.170 -0.001 281063 | 5.170 | 1.2024 | 1.3665 | 12.8 | Aldrin |
| 5.346 | 0.000 90183 | 5.732 -0.001 279399 | 5.732 | 1.2817 | 1.4002 | 8.8 | Heptachlor epoxide b |
| 5.722 | 0.000 125951 | 6.116 -0.001 254978 | 6.116 | 1.3262 | 1.4681 | 10.2 | Endosulfan I |
| 5.946 | 0.000 186453 | 6.377 0.000 510005 | 6.377 | 2.4657 | 2.8405 | 14.1 | Dieldrin |
| 5.676 | 0.007 102296 | 6.212 0.004 454077 | 6.212 | 2.1384 | 2.8596 | 28.9 | 4,4'-DDE |
| 6.163 | 0.000 168281 | 6.664 -0.001 411451 | 6.664 | 2.4885 | 2.9379 | 16.6 | Endrin |
| 6.371 | 0.001 167251 | 6.857 0.000 417218 | 6.857 | 2.5413 | 2.9403 | 14.6 | Endosulfan II |
| 6.233 | 0.006 123691 | 6.751 0.003 333864 | 6.751 | 2.3230 | 2.8528 | 20.5 | 4,4'-DDD |
| 7.138 | 0.001 151972 | 7.404 0.000 307110 | 7.404 | 2.6264 | 2.8169 | 7.0 | Endosulfan sulfate |
| 6.486 | 0.003 134942 | 7.035 0.001 315925 | 7.035 | 2.3077 | 2.7414 | 17.2 | 4,4'-DDT |
| 6.926 | 0.003 392552 | 7.630 0.001 752659 | 7.630 | 13.1764 | 14.9513 | 12.6 | Methoxychlor |
| 7.389 | 0.000 205761 | 7.882 0.000 403201 | 7.882 | 2.8050 | 2.8727 | 2.4 | Endrin ketone |
| 6.749 | 0.001 141750 | 7.158 0.000 322123 | 7.158 | 2.6707 | 2.9806 | 11.0 | Endrin aldehyde |
| 5.471 | 0.001 100972 | 5.918 0.000 251271 | 5.918 | 1.3234 | 1.3571 | 2.5 | gamma-Chlordane |
| 5.594 | 0.000 95342 | 6.057 -0.001 251721 | 6.057 | 1.3131 | 1.4286 | 8.4 | alpha-Chlordane |
| 2.053 | -0.001 137598 | 2.112 -0.001 420036 | 2.112 | 1.3383 | 1.4000 | 4.5 | Hexachlorobutadiene |
| 3.720 | 0.004 87589 | 3.997 0.002 344165 | 3.997 | 1.3658 | 1.3638 | 0.2 | Hexachlorobenzene |
| 8.390 | 0.001 6288842 | 9.355 0.000 8157989 | 9.355 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 196488 | 3.589 0.001 537877 | 3.589 | 2.8480 | 2.6707 | 6.4 | Tetrachloro-m-xylene |
| 8.250 | 0.000 211888 | 8.909 0.000 340184 | 8.909 | 2.9992 | 3.0121 | 0.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 7.1 | 6.7 | 6.7~ | 115- 0 |
| Decachlorobiphenyl | 7.5 | 7.5 | 7.5~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

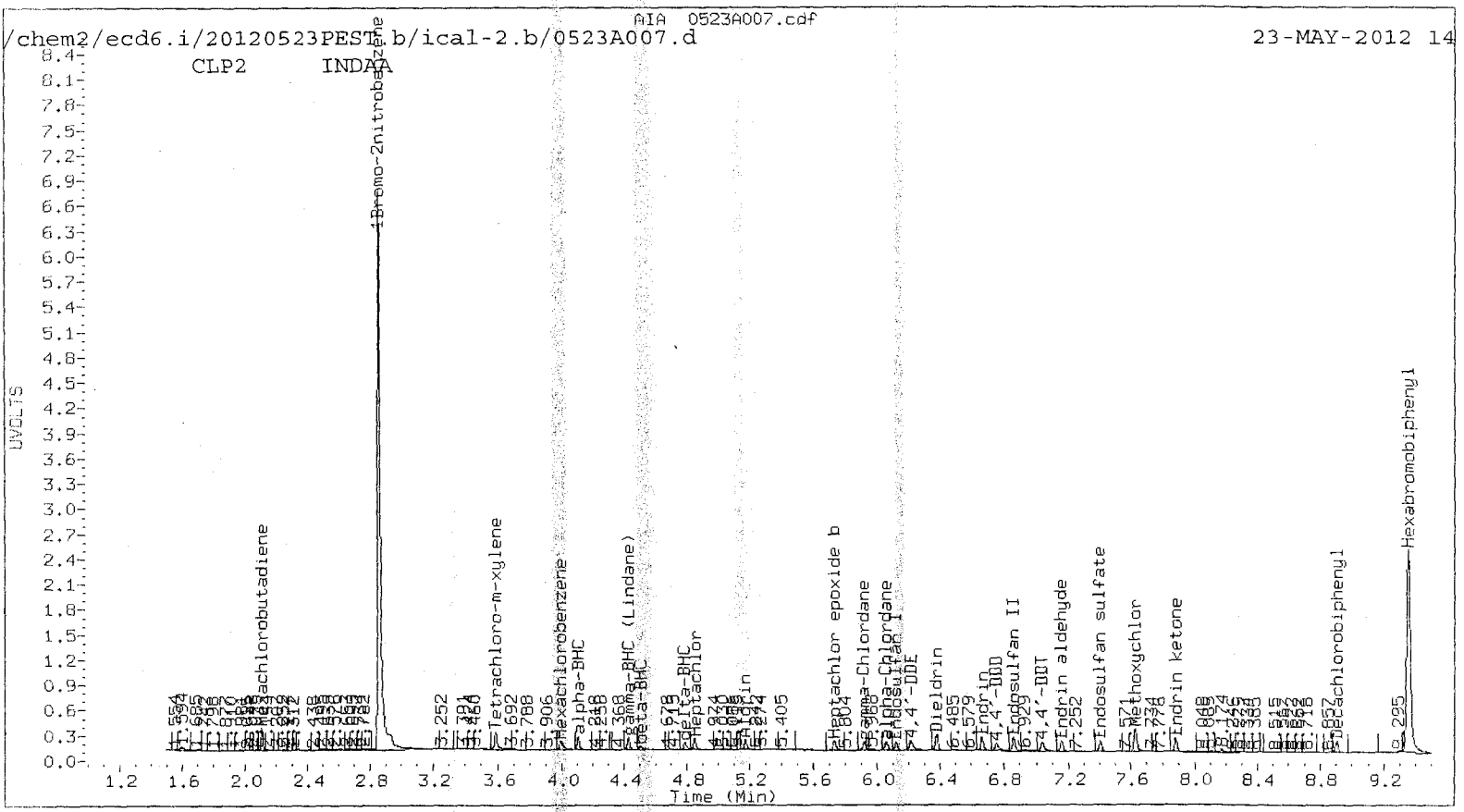
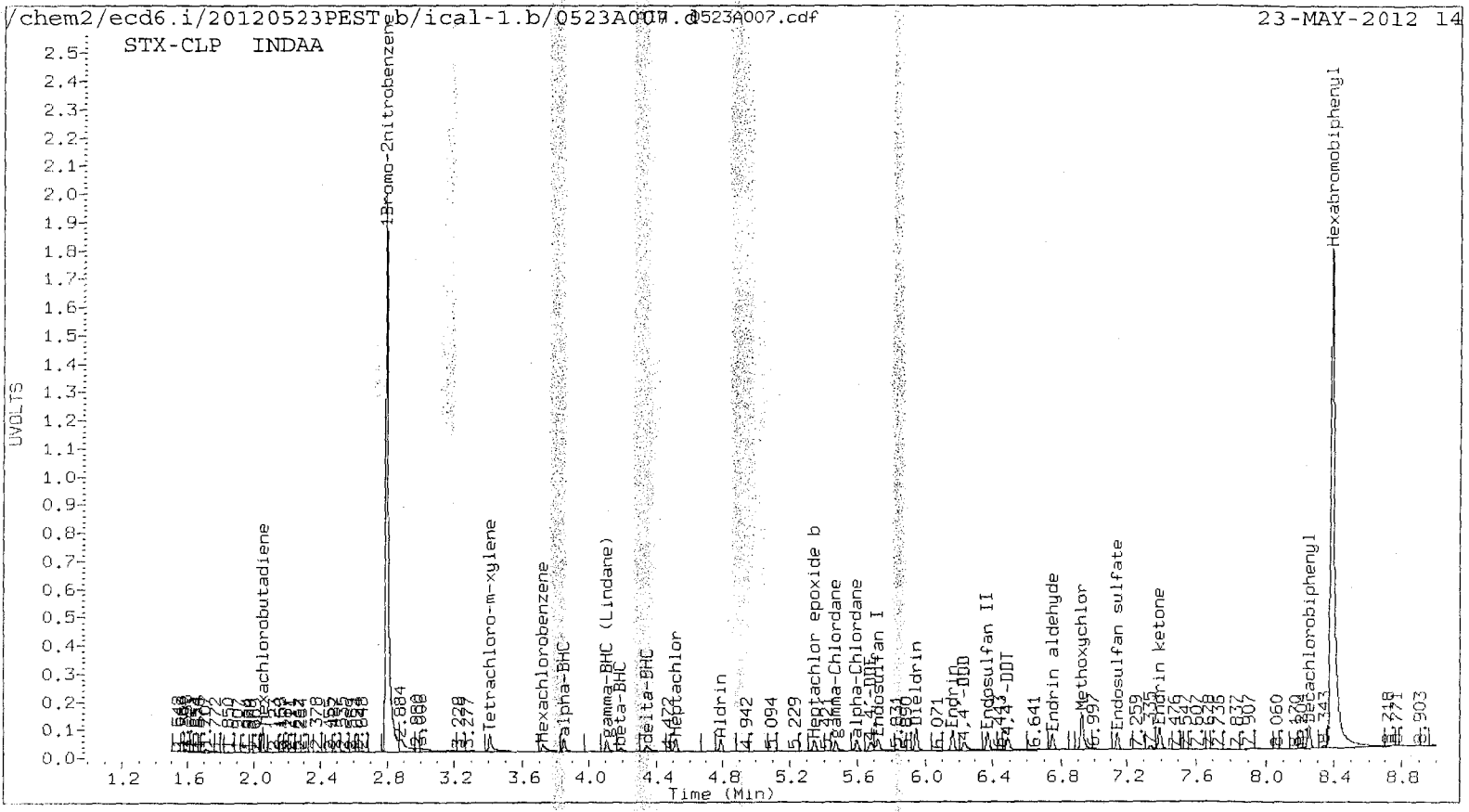
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4662553 | -3.7 |
| Hexabromobiphenyl | 6506091 | 6288842 | -3.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16229726 | 0.0 |
| Hexabromobiphenyl | 8472750 | 8157989 | -3.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A008.d ARI ID: INDAB
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A008.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 15:05
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 2.796 | 0.000 4901931 | 2.855 0.000 16989055 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.847 | 0.000 235324 | 4.107 -0.001 684591 | 2.4061 | 2.3664 | 1.7 | alpha-BHC |
| 4.187 | 0.005 93658 | 4.505 0.003 273591 | 2.5673 | 2.4585 | 4.3 | beta-BHC |
| 4.342 | 0.005 162923 | 4.785 0.002 464588 | 2.2832 | 2.2499 | 1.5 | delta-BHC |
| 4.107 | 0.000 192447 | 4.428 0.000 589200 | 2.3457 | 2.3870 | 1.7 | gamma-BHC (Lindane) |
| 4.518 | 0.000 220726 | 4.849 -0.001 635638 | 2.4371 | 2.5588 | 4.9 | Heptachlor |
| 4.787 | 0.000 195463 | 5.170 -0.001 538568 | 2.3529 | 2.5014 | 6.1 | Aldrin |
| 5.346 | 0.001 186306 | 5.732 -0.001 556037 | 2.5185 | 2.6620 | 5.5 | Heptachlor epoxide b |
| 5.722 | 0.000 250244 | 6.118 0.000 466522 | 2.5062 | 2.5660 | 2.4 | Endosulfan I |
| 5.947 | 0.001 382974 | 6.377 0.000 957220 | 4.8173 | 5.0930 | 5.6 | Dieldrin |
| 5.677 | 0.007 207940 | 6.212 0.003 835415 | 4.1345 | 5.0259 | 19.5 | 4,4'-DDE |
| 6.164 | 0.001 342575 | 6.664 -0.001 776642 | 4.7547 | 5.2130 | 9.2 | Endrin |
| 6.372 | 0.001 337318 | 6.857 0.000 794367 | 4.8105 | 5.2625 | 9.0 | Endosulfan II |
| 6.233 | 0.006 249899 | 6.752 0.003 625787 | 4.4051 | 5.0265 | 13.2 | 4,4'-DDD |
| 7.139 | 0.001 299918 | 7.405 0.001 597175 | 4.8649 | 5.1491 | 5.7 | Endosulfan sulfate |
| 6.486 | 0.003 275462 | 7.035 0.001 603961 | 4.4214 | 4.9266 | 10.8 | 4,4'-DDT |
| 6.925 | 0.002 821153 | 7.630 0.001 1464236 | 25.8700 | 27.3426 | 5.5 | Methoxychlor |
| 7.389 | 0.001 393789 | 7.882 0.000 784857 | 5.0386 | 5.2566 | 4.2 | Endrin ketone |
| 6.750 | 0.001 277667 | 7.159 0.001 605309 | 4.9102 | 5.2650 | 7.0 | Endrin aldehyde |
| 5.471 | 0.001 191913 | 5.919 0.001 482232 | 2.3926 | 2.4881 | 3.9 | gamma-Chlordane |
| 5.595 | 0.001 184055 | 6.058 0.000 469350 | 2.4112 | 2.5446 | 5.4 | alpha-Chlordane |
| 2.053 | -0.001 272064 | 2.112 -0.001 797226 | 2.5170 | 2.5385 | 0.9 | Hexachlorobutadiene |
| 3.720 | 0.004 176690 | 3.997 0.003 657359 | 2.6207 | 2.4884 | 5.2 | Hexachlorobenzene |
| 8.390 | 0.001 6700380 | 9.355 0.000 8678314 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 386041 | 3.589 0.001 1045575 | 5.3223 | 4.9594 | 7.1 | Tetrachloro-m-xylene |
| 8.251 | 0.000 397174 | 8.908 0.000 648359 | 5.2766 | 5.3965 | 2.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 13.3 | 12.4 | 12.4~ | 115- 0 |
| Decachlorobiphenyl | 13.2 | 13.5 | 13.2~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

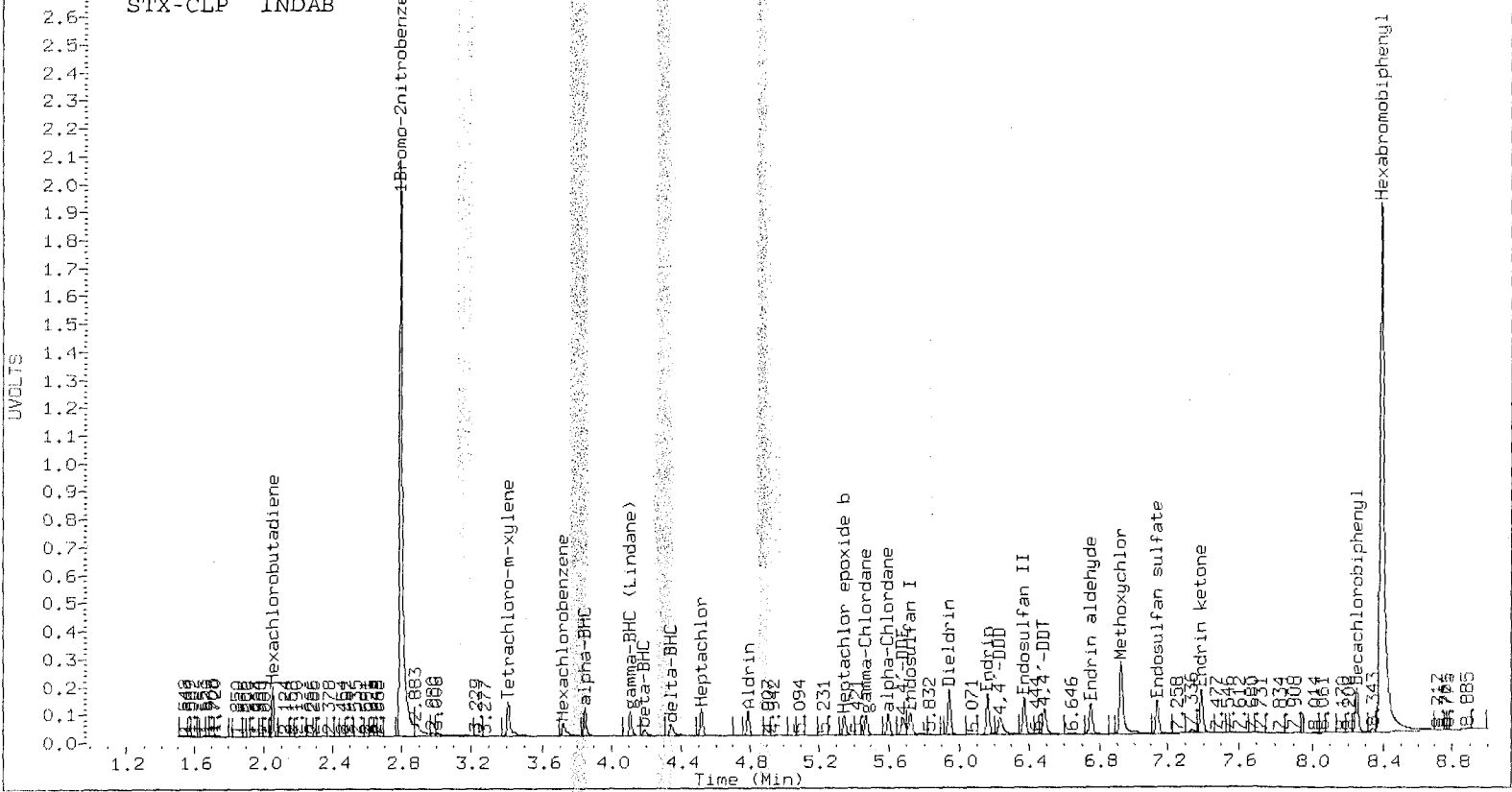
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4901931 | 1.2 |
| Hexabromobiphenyl | 6506091 | 6700380 | 3.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16989055 | 4.7 |
| Hexabromobiphenyl | 8472750 | 8678314 | 2.4 |

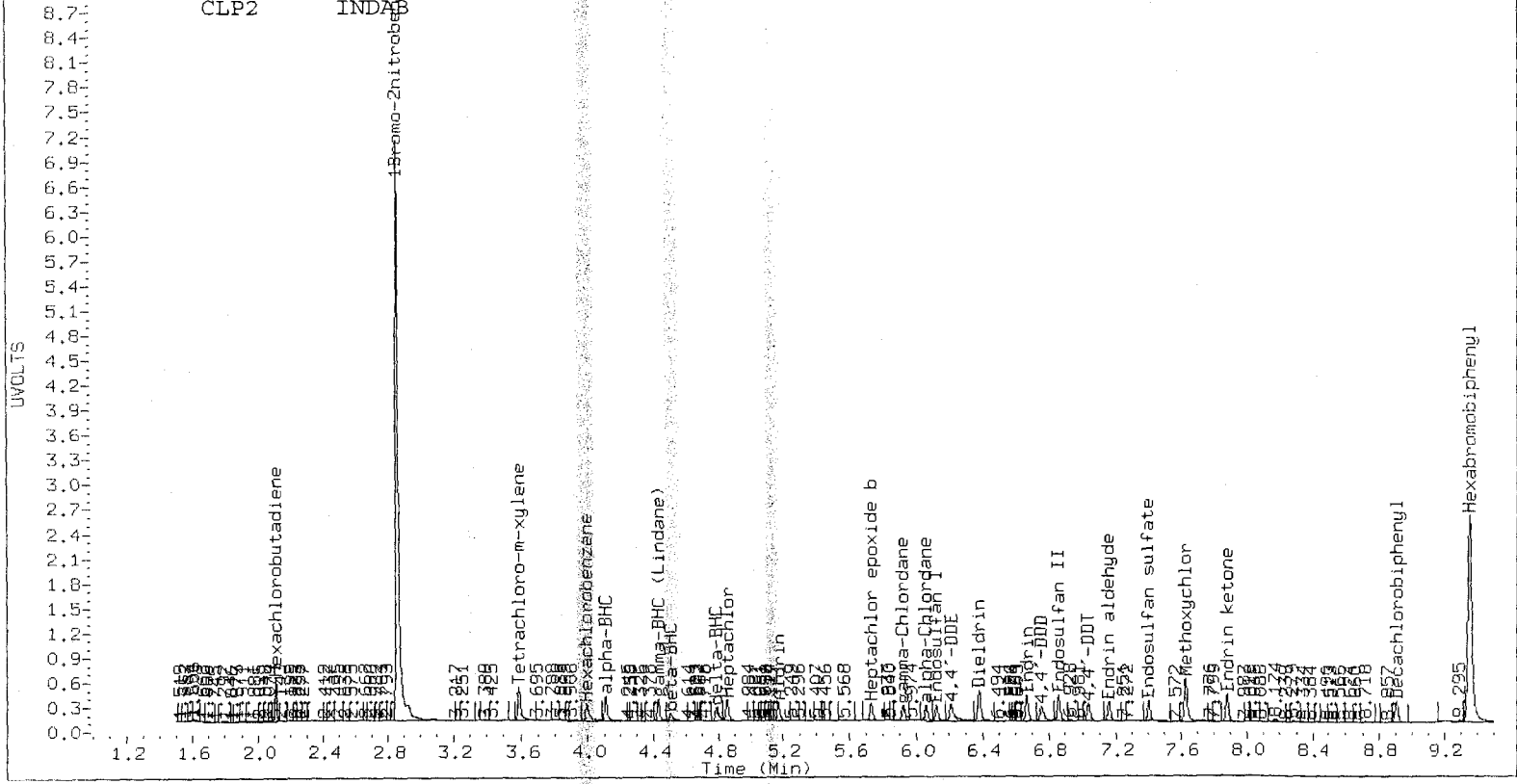
* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | CLP2 Col | | | | | |
|---------|-------------|----|-------|--------|----------|-------|----|-------|--------|--------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP INDAB



CLP2 INDAB



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A009.d ARI ID: INDAC
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A009.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 15:23
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 2.796 | 0.000 5097624 | 2.855 0.000 15963413 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.847 | 0.000 479551 | 4.107 -0.001 1397386 | 4.7149 | 5.1407 | 8.6 | alpha-BHC |
| 4.186 | 0.004 179654 | 4.504 0.002 535896 | 4.7356 | 5.1249 | 7.9 | beta-BHC |
| 4.342 | 0.005 329109 | 4.784 0.002 955882 | 4.4351 | 4.9265 | 10.5 | delta-BHC |
| 4.106 | 0.000 393314 | 4.428 -0.001 1177150 | 4.6099 | 5.0753 | 9.6 | gamma-BHC (Lindane) |
| 4.517 | 0.000 442312 | 4.848 -0.001 1247616 | 4.6963 | 5.3451 | 12.9 | Heptachlor |
| 4.787 | 0.000 399463 | 5.170 -0.001 1057892 | 4.6240 | 5.2290 | 12.3 | Aldrin |
| 5.346 | 0.000 356471 | 5.732 -0.001 1029998 | 4.6338 | 5.2479 | 12.4 | Heptachlor epoxide b |
| 5.722 | 0.000 497889 | 6.117 0.000 891315 | 4.7949 | 5.2175 | 8.4 | Endosulfan I |
| 5.946 | 0.000 790155 | 6.377 0.000 1860875 | 9.5575 | 10.5371 | 9.7 | Dieldrin |
| 5.675 | 0.005 455937 | 6.211 0.003 1612866 | 8.7175 | 10.3265 | 16.9 | 4,4'-DDE |
| 6.163 | 0.000 708238 | 6.664 -0.001 1520477 | 9.8726 | 10.2391 | 3.6 | Endrin |
| 6.371 | 0.001 687864 | 6.857 0.000 1545804 | 9.8524 | 10.2741 | 4.2 | Endosulfan II |
| 6.233 | 0.005 524194 | 6.752 0.003 1227819 | 9.2804 | 9.8945 | 6.4 | 4,4'-DDD |
| 7.138 | 0.001 605096 | 7.404 0.000 1179240 | 9.8580 | 10.2012 | 3.4 | Endosulfan sulfate |
| 6.486 | 0.002 585722 | 7.035 0.001 1205932 | 9.4423 | 9.8691 | 4.4 | 4,4'-DDT |
| 6.925 | 0.002 1593071 | 7.630 0.001 2756371 | 50.4075 | 51.6396 | 2.4 | Methoxychlor |
| 7.388 | 0.000 771804 | 7.882 0.000 1545443 | 9.9184 | 10.3844 | 4.6 | Endrin ketone |
| 6.749 | 0.000 555196 | 7.158 0.000 1168298 | 9.8608 | 10.1952 | 3.3 | Endrin aldehyde |
| 5.470 | 0.001 384042 | 5.919 0.001 959804 | 4.6040 | 5.2704 | 13.5 | gamma-Chlordane |
| 5.594 | 0.000 369166 | 6.057 -0.001 898070 | 4.6505 | 5.1818 | 10.8 | alpha-Chlordane |
| 2.053 | -0.001 536853 | 2.112 -0.001 1575145 | 4.7760 | 5.3378 | 11.1 | Hexachlorobutadiene |
| 3.720 | 0.003 333914 | 3.997 0.002 1288296 | 4.7625 | 5.1900 | 8.6 | Hexachlorobenzene |
| 8.390 | 0.000 6671309 | 9.355 0.000 8650070 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 733647 | 3.588 0.000 2077735 | 9.7264 | 10.4885 | 7.5 | Tetrachloro-m-xylene |
| 8.250 | 0.000 751347 | 8.909 0.000 1222335 | 10.0254 | 10.2072 | 1.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 24.3 | 26.2 | 24.3~ | 115- 0 |
| Decachlorobiphenyl | 25.1 | 25.5 | 25.1~ | 115- 0 |

~ Indicates recovery outside QC Limits

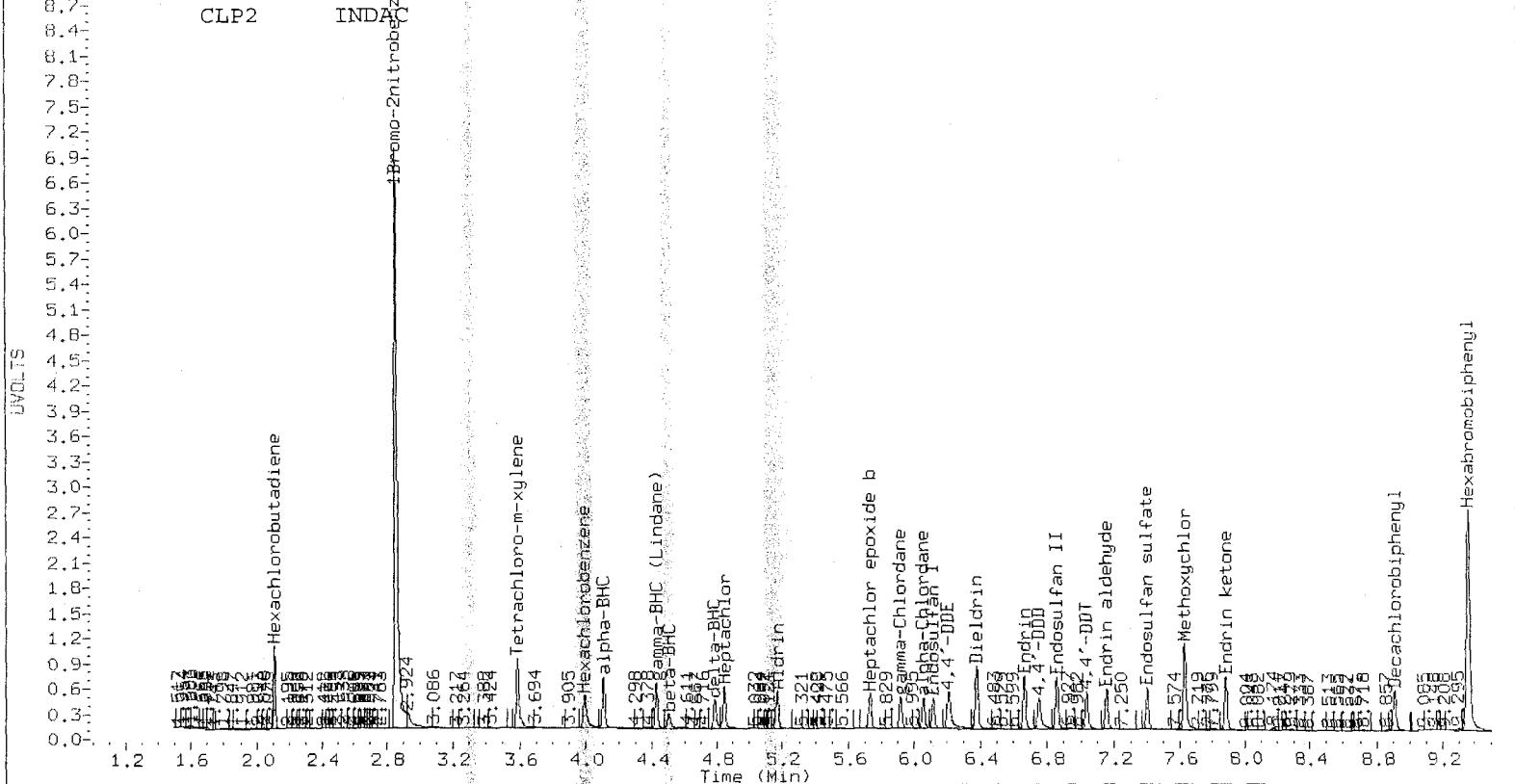
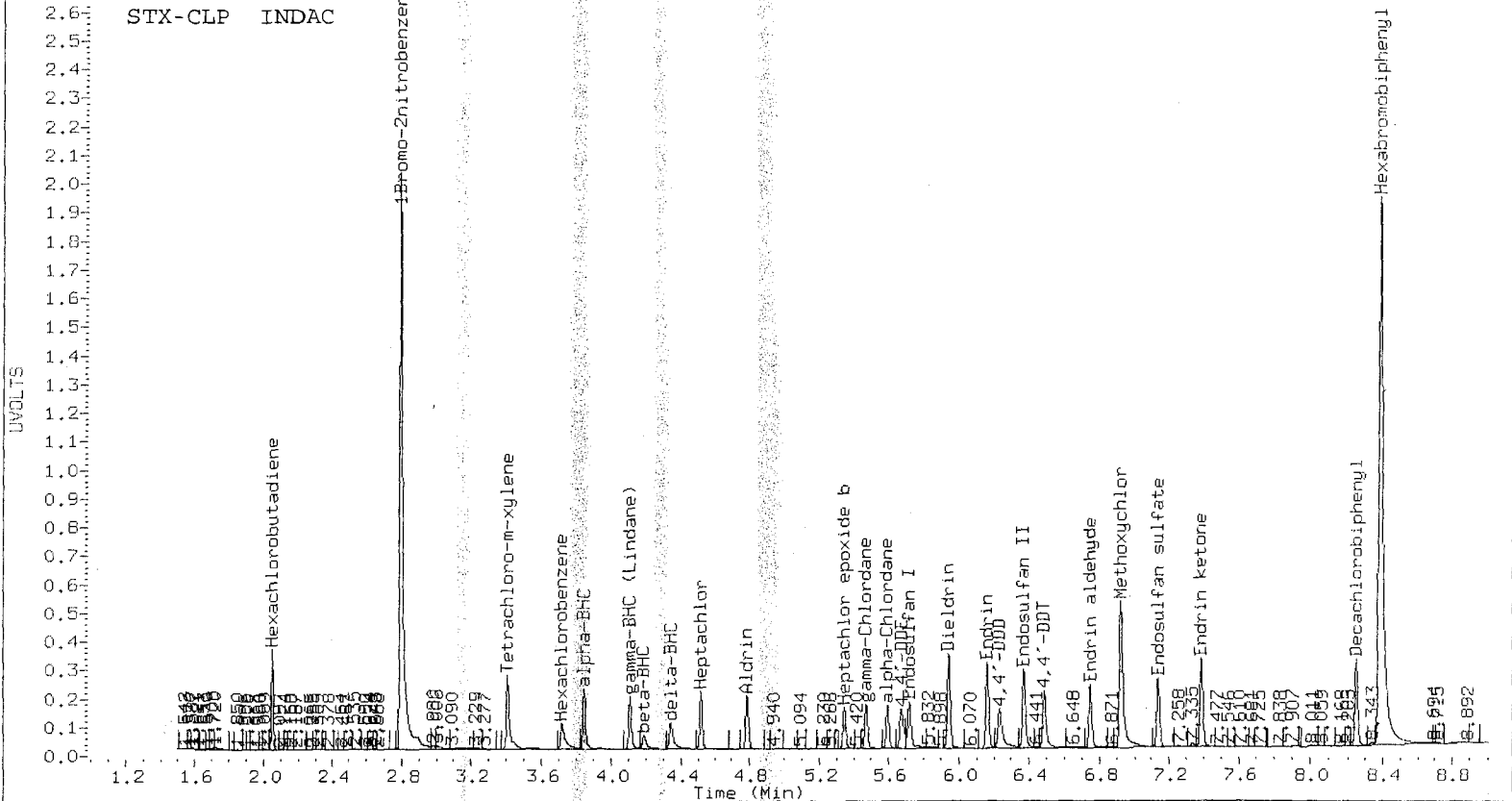
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5097624 | 5.3 |
| Hexabromobiphenyl | 6506091 | 6671309 | 2.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15963413 | -1.6 |
| Hexabromobiphenyl | 8472750 | 8650070 | 2.1 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A010.d ARI ID: INDAD
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A010.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 15:41
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|-----|----------------------|
| 2.796 | 0.000 4846850 | 2.855 0.000 16200736 | 2.855 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | -0.001 993264 | 4.107 -0.001 2788103 | 4.107 | 10.2710 | 10.1066 | 1.6 | alpha-BHC |
| 4.185 | 0.003 353763 | 4.503 0.001 1022509 | 4.503 | 9.8075 | 9.6353 | 1.8 | beta-BHC |
| 4.340 | 0.003 685083 | 4.784 0.001 1890714 | 4.784 | 9.7100 | 9.6018 | 1.1 | delta-BHC |
| 4.106 | 0.000 818658 | 4.428 -0.001 2310686 | 4.428 | 10.0917 | 9.8167 | 2.8 | gamma-BHC (Lindane) |
| 4.517 | -0.001 911843 | 4.849 -0.001 2390915 | 4.849 | 10.1825 | 10.0932 | 0.9 | Heptachlor |
| 4.787 | 0.000 836615 | 5.170 -0.001 2041103 | 5.170 | 10.1854 | 9.9411 | 2.4 | Aldrin |
| 5.345 | 0.000 732359 | 5.733 0.000 1959508 | 5.733 | 10.0126 | 9.8375 | 1.8 | Heptachlor epoxide b |
| 5.721 | 0.000 1019972 | 6.117 0.000 1691554 | 6.117 | 10.3311 | 9.7568 | 5.7 | Endosulfan I |
| 5.946 | -0.001 1612307 | 6.377 0.000 3596377 | 6.377 | 20.5110 | 20.0659 | 2.2 | Dieldrin |
| 5.674 | 0.005 953312 | 6.211 0.003 3050124 | 6.211 | 19.1704 | 19.2426 | 0.4 | 4,4'-DDE |
| 6.163 | -0.001 1438323 | 6.664 0.000 2937191 | 6.664 | 20.4615 | 19.8554 | 3.0 | Endrin |
| 6.371 | 0.000 1389143 | 6.857 0.000 2974275 | 6.857 | 20.3055 | 19.8443 | 2.3 | Endosulfan II |
| 6.231 | 0.003 1085771 | 6.751 0.002 2353314 | 6.751 | 19.6173 | 19.0372 | 3.0 | 4,4'-DDD |
| 7.138 | 0.000 1201708 | 7.404 0.000 2287814 | 7.404 | 19.9797 | 19.8670 | 0.6 | Endosulfan sulfate |
| 6.485 | 0.001 1210817 | 7.035 0.002 2363116 | 7.035 | 19.9201 | 19.4136 | 2.6 | 4,4'-DDT |
| 6.924 | 0.001 3077505 | 7.630 0.001 5159905 | 7.630 | 99.3770 | 97.0402 | 2.4 | Methoxychlor |
| 7.388 | 0.000 1501282 | 7.882 0.000 2944817 | 7.882 | 19.6890 | 19.8633 | 0.9 | Endrin ketone |
| 6.748 | 0.000 1101601 | 7.159 0.001 2235417 | 7.159 | 19.9671 | 19.5823 | 1.9 | Endrin aldehyde |
| 5.470 | 0.000 783831 | 5.918 0.000 1822894 | 5.918 | 9.8831 | 9.8631 | 0.2 | gamma-Chlordane |
| 5.593 | 0.000 754191 | 6.057 0.000 1709018 | 6.057 | 9.9924 | 9.7164 | 2.8 | alpha-Chlordane |
| 2.053 | -0.001 1084226 | 2.112 -0.001 2978384 | 2.112 | 10.1446 | 9.9452 | 2.0 | Hexachlorobutadiene |
| 3.719 | 0.002 651001 | 3.996 0.001 2467801 | 3.996 | 9.7654 | 9.7962 | 0.3 | Hexachlorobenzene |
| 8.390 | 0.000 6537086 | 9.355 -0.001 8616973 | 9.355 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 1438731 | 3.588 0.000 4019617 | 3.588 | 20.0610 | 19.9939 | 0.3 | Tetrachloro-m-xylene |
| 8.250 | 0.000 1443026 | 8.908 0.000 2326383 | 8.908 | 19.6500 | 19.5013 | 0.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 50.2 | 50.0 | 50.0~ | 115- 0 |
| Decachlorobiphenyl | 49.1 | 48.8 | 48.8~ | 115- 0 |

~ Indicates recovery outside QC Limits

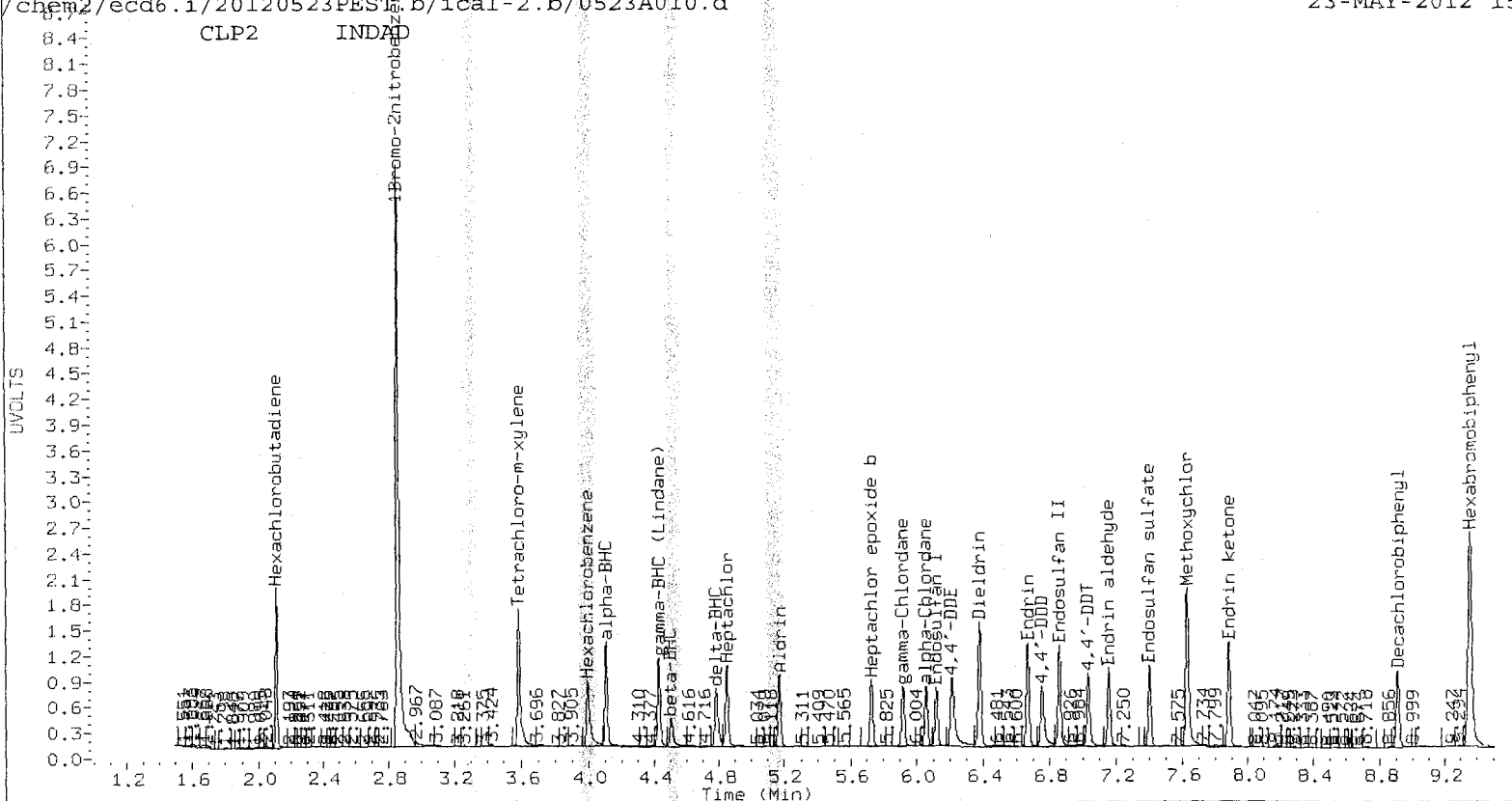
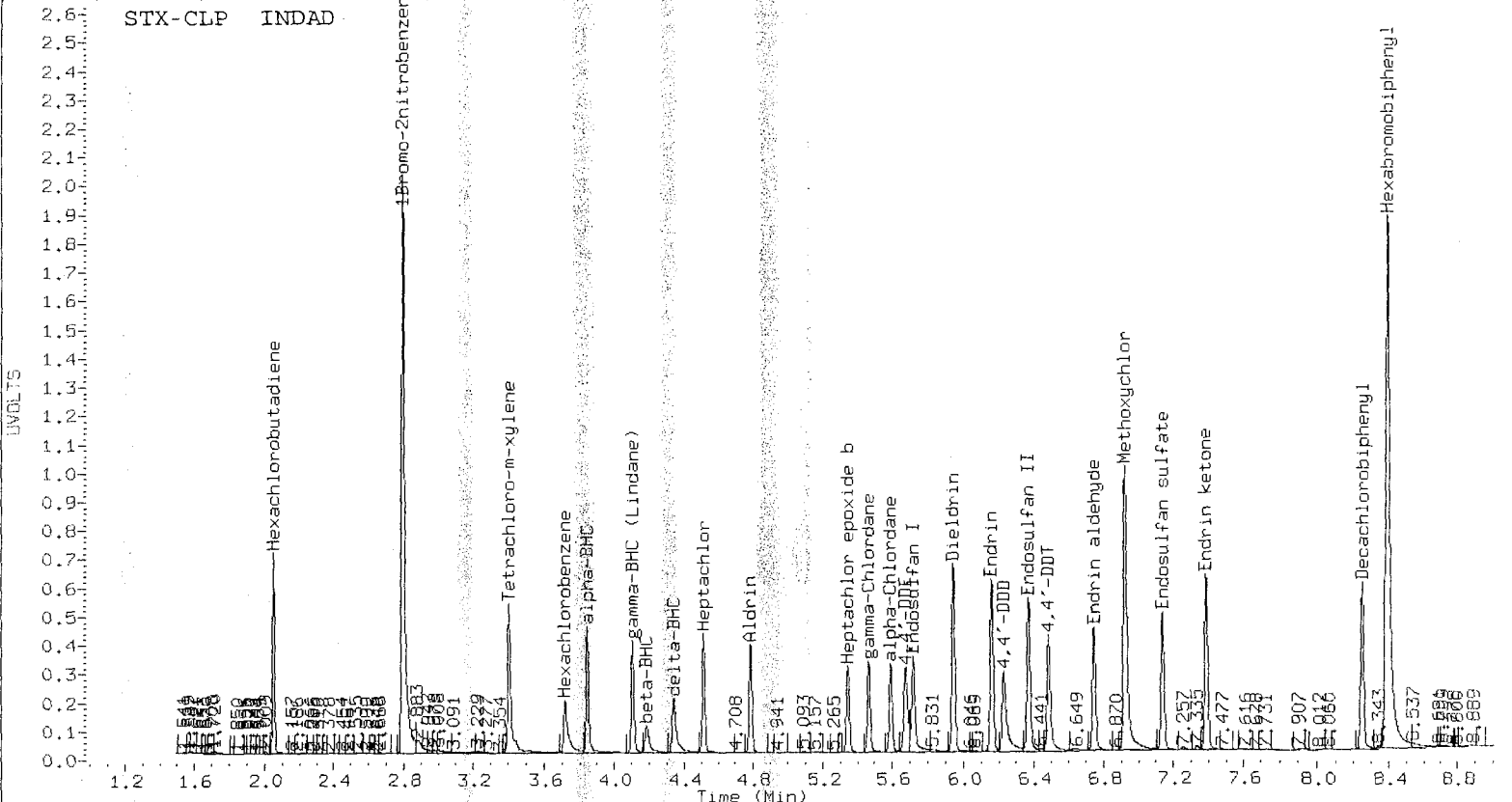
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4846850 | 0.1 |
| Hexabromobiphenyl | 6506091 | 6537086 | 0.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16200736 | -0.2 |
| Hexabromobiphenyl | 8472750 | 8616973 | 1.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | CLP2 Col | | | | | |
|---------|-------------|----|-------|--------|----------|-------|----|-------|--------|--------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A011.d ARI ID: INDAF
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A011.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 15:58
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|-------|----------------------------|-------------------|----------------|------|----------------------|
| 2.797 | 0.000 4867401 | 2.855 | 0.000 16682441 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | 0.000 4154693 | 4.107 | 0.000 11255646 | 42.7810 | 39.6224 | 7.7 | alpha-BHC |
| 4.183 | 0.001 1465758 | 4.502 | 0.000 4026104 | 40.4643 | 36.8432 | 9.4 | beta-BHC |
| 4.338 | 0.001 3136677 | 4.783 | 0.000 8355316 | 44.2699 | 41.2064 | 7.2 | delta-BHC |
| 4.106 | 0.000 3476213 | 4.428 | -0.001 9410438 | 42.6707 | 38.8249 | 9.4 | gamma-BHC (Lindane) |
| 4.518 | 0.000 3718148 | 4.849 | 0.000 8819322 | 41.3451 | 36.1556 | 13.4 | Heptachlor |
| 4.787 | 0.000 3499920 | 5.170 | -0.001 7922388 | 42.4298 | 37.4716 | 12.4 | Aldrin |
| 5.346 | 0.000 2993614 | 5.732 | 0.000 7449545 | 40.7550 | 36.3198 | 11.5 | Heptachlor epoxide b |
| 5.722 | 0.000 3957874 | 6.117 | 0.000 6481871 | 39.9192 | 36.3075 | 9.5 | Endosulfan I |
| 5.946 | 0.000 6485958 | 6.377 | 0.000 13418392 | 82.1630 | 72.7059 | 12.2 | Dieldrin |
| 5.671 | 0.002 4634253 | 6.209 | 0.001 12144345 | 92.7979 | 74.4039 | 22.0 | 4,4'-DDE |
| 6.163 | 0.000 5814366 | 6.665 | 0.000 11084332 | 81.7990 | 74.8243 | 8.9 | Endrin |
| 6.371 | 0.000 5615499 | 6.858 | 0.000 11198816 | 81.1746 | 74.6130 | 8.4 | Endosulfan II |
| 6.228 | 0.001 4940166 | 6.749 | 0.000 9694313 | 88.2691 | 78.3118 | 12.0 | 4,4'-DDD |
| 7.138 | 0.000 4880727 | 7.405 | 0.001 8810610 | 80.2489 | 76.4021 | 4.9 | Endosulfan sulfate |
| 6.484 | 0.000 5393463 | 7.035 | 0.001 9738463 | 87.7497 | 79.8911 | 9.4 | 4,4'-DDT |
| 6.923 | 0.000 12257760 | 7.630 | 0.001 17292597 | 391.4383 | 324.7559 | 18.6 | Methoxychlor |
| 7.388 | 0.000 5962994 | 7.882 | 0.001 11064087 | 77.3376 | 74.5239 | 3.7 | Endrin ketone |
| 6.749 | 0.000 4437890 | 7.158 | 0.000 8476984 | 79.5487 | 74.1538 | 7.0 | Endrin aldehyde |
| 5.470 | 0.000 3288931 | 5.918 | 0.000 7148864 | 41.2940 | 37.5635 | 9.5 | gamma-Chlordane |
| 5.594 | 0.000 3100743 | 6.057 | 0.000 6665901 | 40.9089 | 36.8037 | 10.6 | alpha-Chlordane |
| 2.053 | 0.000 4225104 | 2.112 | 0.000 11075928 | 39.3656 | 35.9159 | 9.2 | Hexachlorobutadiene |
| 3.718 | 0.001 2609181 | 3.995 | 0.000 9749094 | 38.9742 | 37.5825 | 3.6 | Hexachlorobenzene |
| 8.390 | 0.001 6610265 | 9.355 | -0.001 8629150 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.406 | 0.000 5645105 | 3.588 | 0.000 15496769 | 78.3802 | 74.8564 | 4.6 | Tetrachloro-m-xylene |
| 8.251 | 0.000 5480778 | 8.909 | 0.000 8727379 | 73.8068 | 73.0553 | 1.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 196.0 | 187.1 | 187.1~ | 115- 0 |
| Decachlorobiphenyl | 184.5 | 182.6 | 182.6~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4867401 | 0.5 |
| Hexabromobiphenyl | 6506091 | 6610265 | 1.6 |

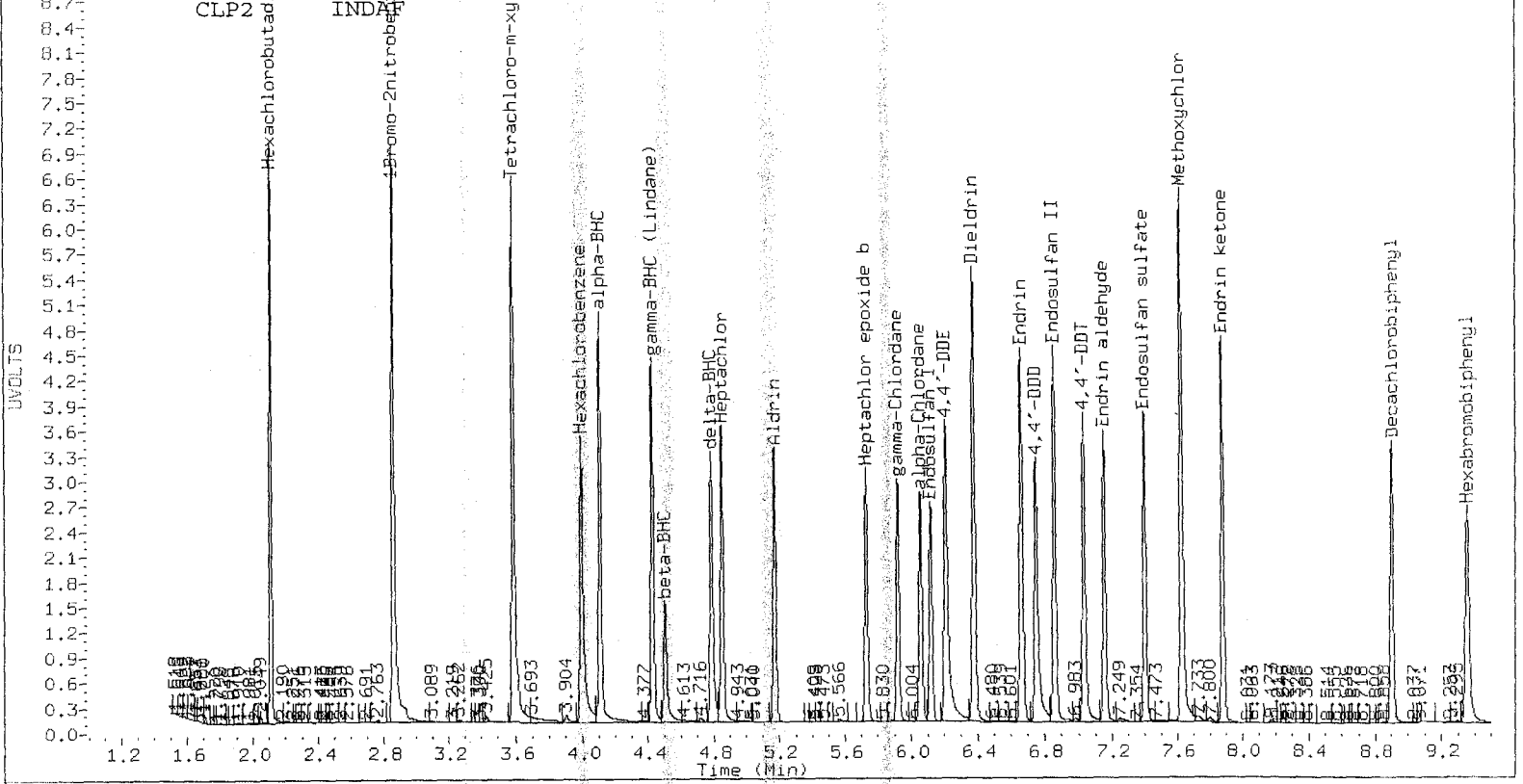
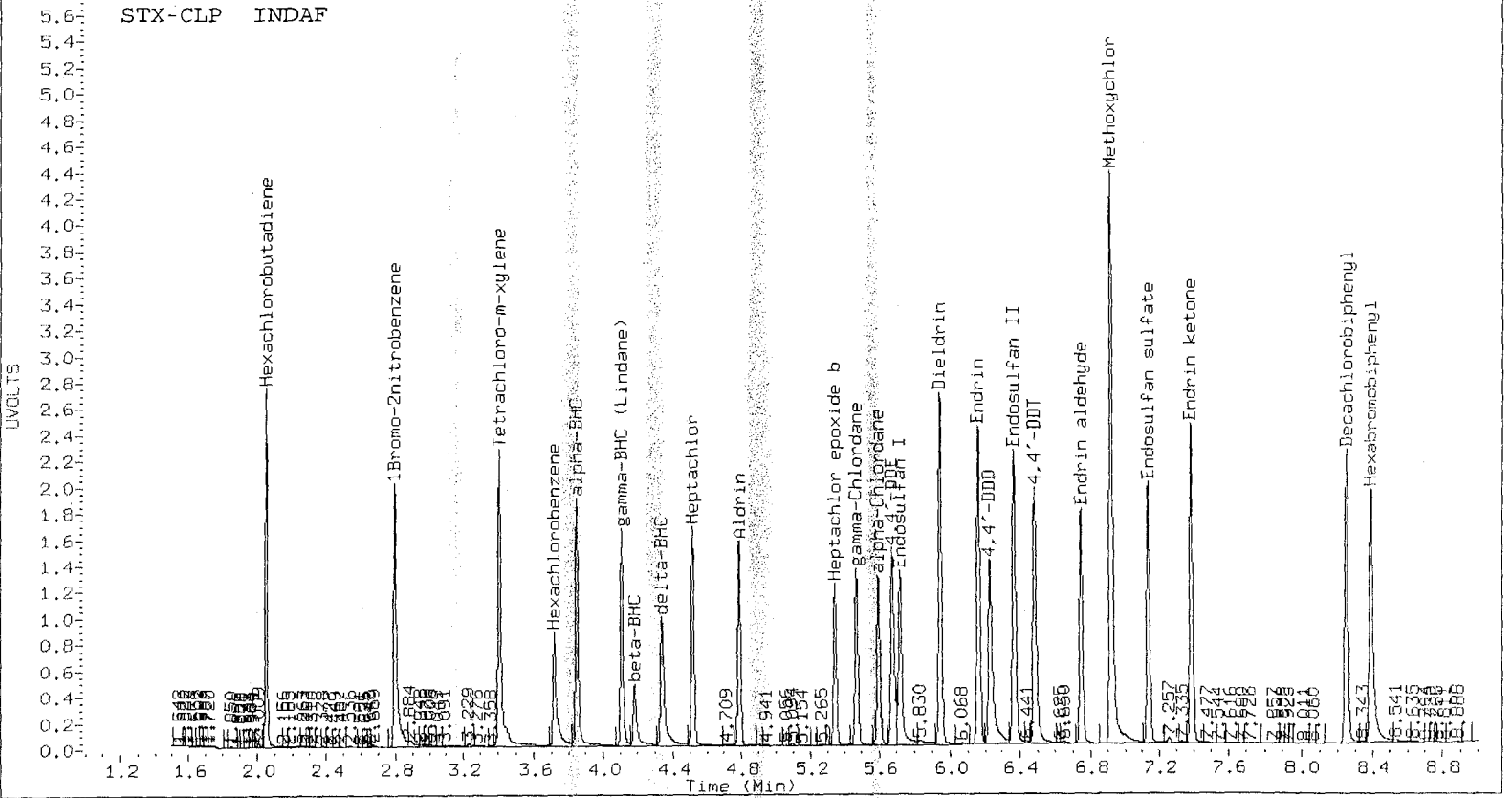
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16682441 | 2.8 |
| Hexabromobiphenyl | 8472750 | 8629150 | 1.8 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A012.d ARI ID: INDAG
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A012.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 16:16
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------|-------------------------|----------------|-------------|------|----------------------|
| 2.797 | 0.001 4944488 | 2.855 | 0.000 15540466 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.847 | 0.000 8408496 | 4.108 | 0.000 21853886 | 85.2327 | 82.5837 | 3.2 | alpha-BHC |
| 4.182 | 0.000 2962525 | 4.502 | 0.000 7798154 | 80.5095 | 76.6054 | 5.0 | beta-BHC |
| 4.337 | 0.000 6518750 | 4.782 | 0.000 16673404 | 90.5689 | 88.2716 | 2.6 | delta-BHC |
| 4.106 | 0.000 7085521 | 4.429 | 0.000 18362931 | 85.6191 | 81.3276 | 5.1 | gamma-BHC (Lindane) |
| 4.518 | 0.000 7355541 | 4.849 | 0.000 16213440 | 80.5171 | 71.3527 | 12.1 | Heptachlor |
| 4.787 | 0.000 6989667 | 5.171 | 0.000 14980751 | 83.4153 | 76.0634 | 9.2 | Aldrin |
| 5.346 | 0.000 5980009 | 5.733 | 0.000 13922744 | 80.1425 | 72.8676 | 9.5 | Heptachlor epoxide b |
| 5.722 | 0.000 7555767 | 6.118 | 0.000 12252001 | 75.0195 | 73.6714 | 1.8 | Endosulfan I |
| 5.946 | 0.000 12889489 | 6.377 | 0.000 24993829 | 160.7362 | 145.3776 | 10.0 | Dieldrin |
| 5.670 | 0.000 9875323 | 6.208 | 0.000 23322294 | 194.6640 | 153.3869 | 23.7 | 4,4'-DDE |
| 6.163 | 0.000 11557288 | 6.664 | 0.000 20579878 | 156.8271 | 135.5383 | 14.6 | Endrin |
| 6.371 | 0.000 11198451 | 6.857 | 0.000 20802640 | 156.1381 | 135.2219 | 14.4 | Endosulfan II |
| 6.227 | 0.000 10183310 | 6.749 | 0.000 18958552 | 175.4994 | 149.4176 | 16.1 | 4,4'-DDD |
| 7.138 | 0.000 9806489 | 7.404 | 0.000 16828418 | 155.5205 | 142.3734 | 8.8 | Endosulfan sulfate |
| 6.483 | 0.000 11065375 | 7.034 | 0.000 19097615 | 173.6454 | 152.8528 | 12.7 | 4,4'-DDT |
| 6.923 | 0.000 24605198 | 7.629 | 0.000 31657500 | 757.8766 | 580.0423 | 26.6 | Methoxychlor |
| 7.388 | 0.000 11969831 | 7.881 | 0.000 20812352 | 149.7387 | 136.7689 | 9.1 | Endrin ketone |
| 6.748 | 0.000 8853574 | 7.158 | 0.000 16050444 | 153.0717 | 136.9826 | 11.1 | Endrin aldehyde |
| 5.470 | 0.000 6605916 | 5.918 | 0.000 13687865 | 81.6471 | 77.2077 | 5.6 | gamma-Chlordane |
| 5.594 | 0.000 6259683 | 6.057 | 0.000 12857873 | 81.2980 | 76.2074 | 6.5 | alpha-Chlordane |
| 2.053 | 0.000 8418309 | 2.113 | 0.000 21725328 | 77.2112 | 75.6256 | 2.1 | Hexachlorobutadiene |
| 3.717 | 0.000 5285530 | 3.995 | 0.000 18905591 | 77.7207 | 78.2361 | 0.7 | Hexachlorobenzene |
| 8.390 | 0.001 6853296 | 9.355 | -0.001 8844674 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.406 | 0.000 9861175 | 3.588 | 0.000 29972046 | 134.7842 | 155.4174 | 14.2 | Tetrachloro-m-xylene |
| 8.250 | 0.000 10915123 | 8.908 | 0.000 17047413 | 141.7757 | 139.2235 | 1.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 337.0 | 388.5 | 337.0~ | 115- 0 |
| Decachlorobiphenyl | 354.4 | 348.1 | 348.1~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

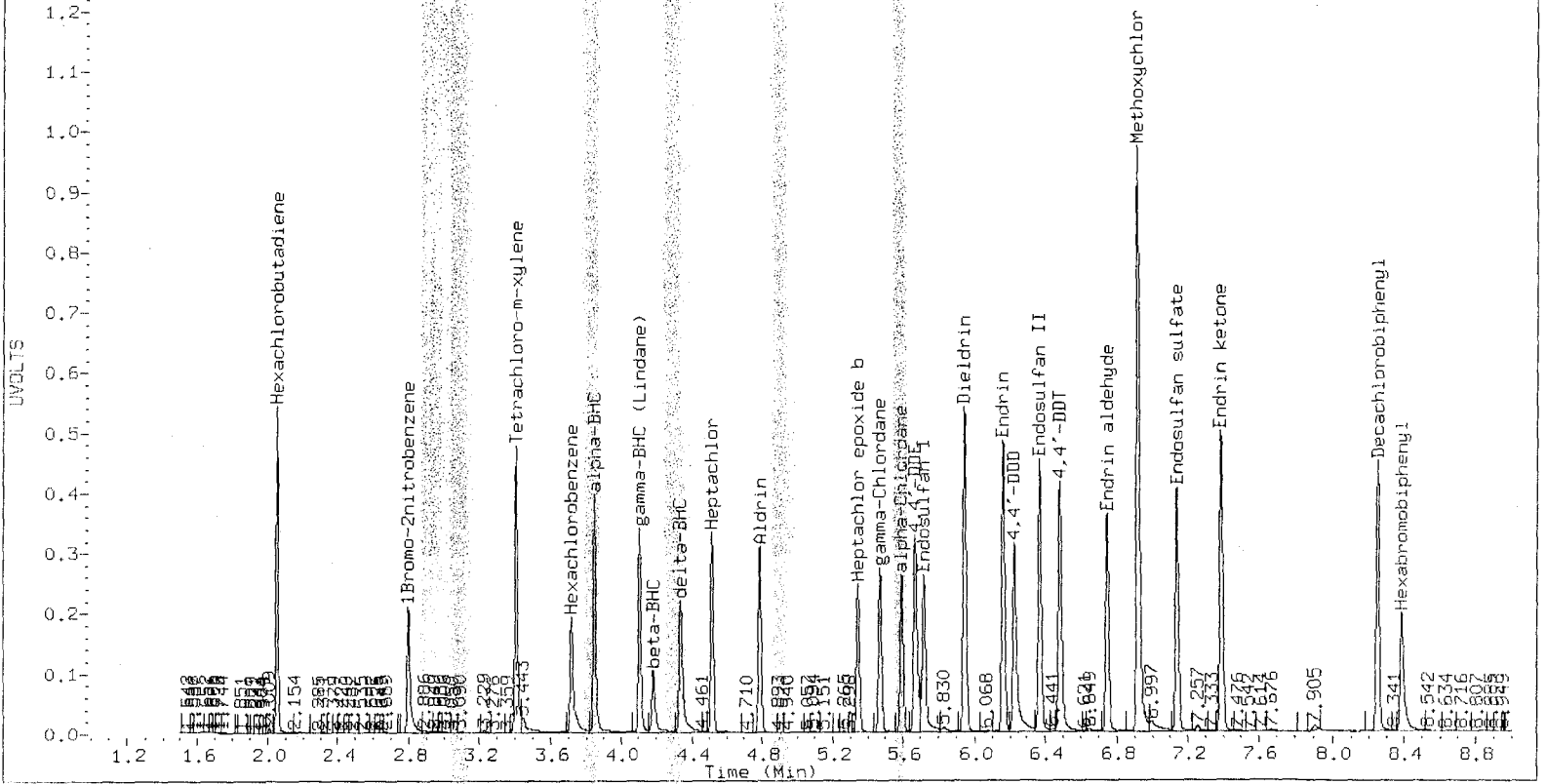
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4944488 | 2.1 |
| Hexabromobiphenyl | 6506091 | 6853296 | 5.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15540466 | -4.2 |
| Hexabromobiphenyl | 8472750 | 8844674 | 4.4 |

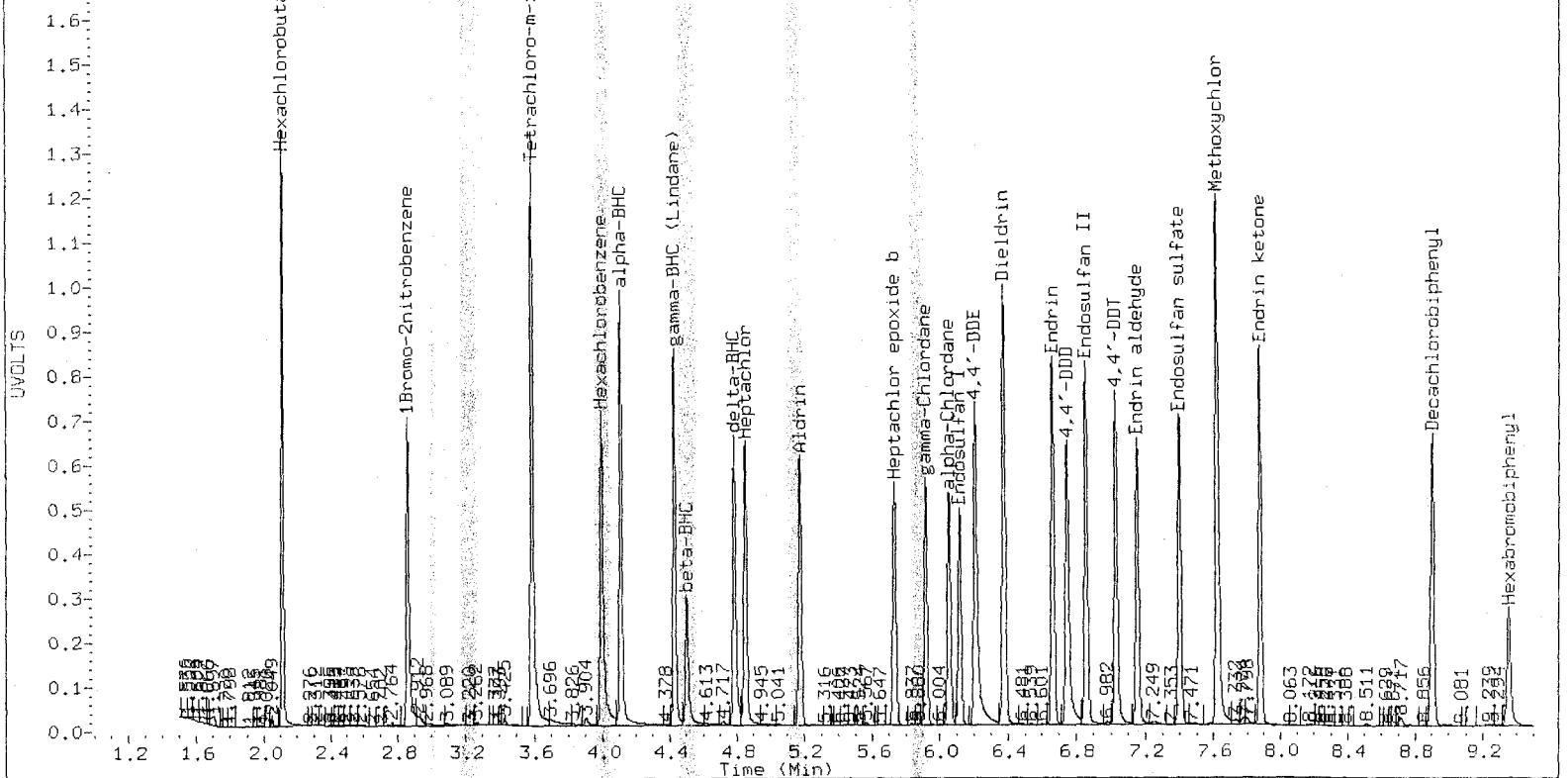
* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP INDAG



CLP2 INDAG



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A015.d ARI ID: TOXAPH 2500
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A015.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 17:10
 Compound Sublist: TOXAPH Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|---------|---------|------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.796 | 0.000 | 4791619 | 2.855 | 0.000 | 16477086 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 8.391 | 0.001 | 6609775 | 9.356 | 0.000 | 8490411 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 3.407 | 0.001 | 2344294 | 3.589 | 0.001 | 6723393 | 33.0645 | 32.8818 | 0.6 | Tetrachloro-m-xylene | |
| 8.251 | 0.000 | 2573992 | 8.908 | 0.000 | 3958796 | 34.6652 | 33.6799 | 2.9 | Decachlorobiphenyl | |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 82.7 | 82.2 | 82.2~ | 150- 0 |
| Decachlorobiphenyl | 86.7 | 84.2 | 84.2~ | 150- 0 |

~ Indicates recovery outside QC Limits

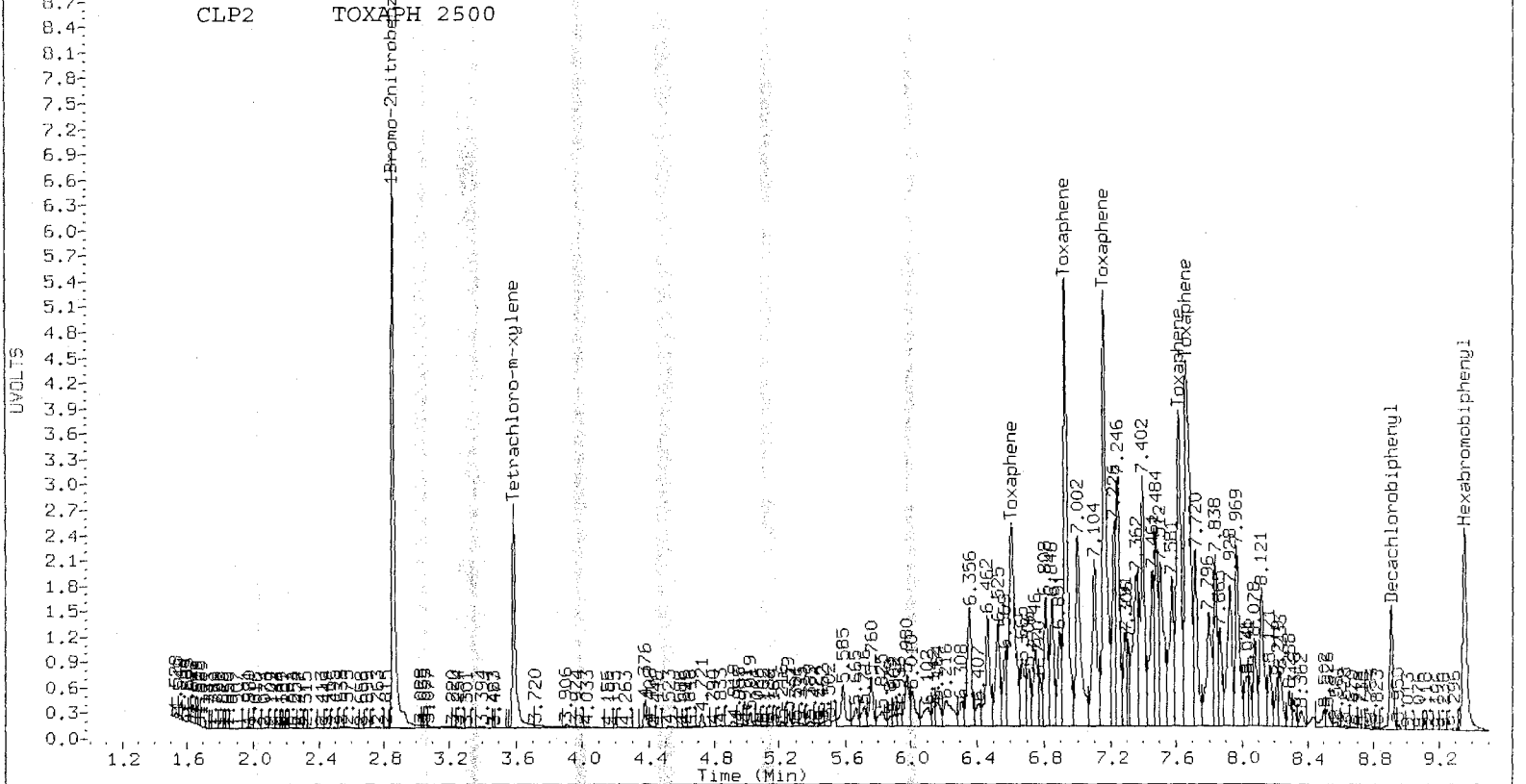
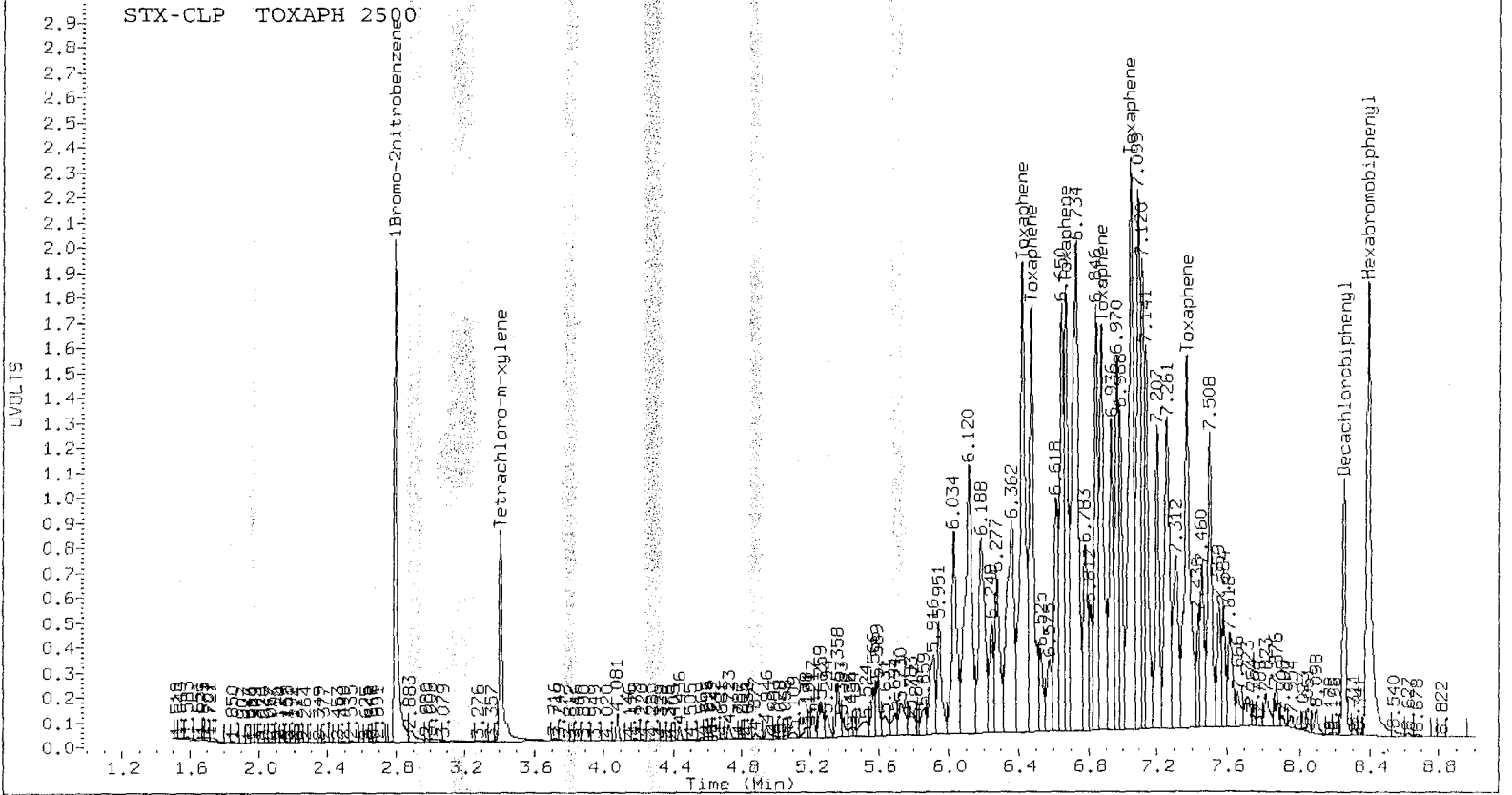
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4791619 | -1.0 |
| Hexabromobiphenyl | 6506091 | 6609775 | 1.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16477086 | 1.5 |
| Hexabromobiphenyl | 8472750 | 8490411 | 0.2 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | | CLP2 Col | | | | |
|--------------------------------------|-------------|-------|-------|---------|-----------------------------------|----------|-------|-------|----------|----------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.424 | 0.000 | 7853407 | 2500.000 | 1 | 6.607 | 0.000 | 11538802 | 2500.000 |
| Toxaphene | 2 | 6.475 | 0.000 | 6015509 | 2500.000 | 2 | 6.931 | 0.000 | 17218598 | 2500.000 |
| Toxaphene | 3 | 6.673 | 0.000 | 5544783 | 2500.000 | 3 | 7.165 | 0.000 | 18102742 | 2500.000 |
| Toxaphene | 4 | 6.877 | 0.000 | 5963483 | 2500.000 | 4 | 7.625 | 0.000 | 14389141 | 2500.000 |
| Toxaphene | 5 | 7.056 | 0.000 | 9090085 | 2500.000 | 5 | 7.670 | 0.000 | 19591746 | 2500.000 |
| Toxaphene | 6 | 7.375 | 0.000 | 6370712 | 2500.000 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 2500.000 | | | | | Total CLP2Ave (5 peaks): 2500.000 | | | | | RPD = 0 |
| Corrected Ave (6 peaks): 2500.000 | | | | | Corrected Ave (5 peaks): 2500.000 | | | | | RPD = 0 |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A016.d ARI ID: WNDE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A016.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 17:27
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|-----|----------------------|
| 1.708 | -0.012 1684 | 1.743 -0.027 2287 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.797 | 0.001 4835108 | 2.855 0.001 16832865 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 2484749 | 5.644 0.000 6257539 | 40.4455 | 38.0341 | 6.1 | Oxychlorane |
| 5.343 | 0.002 1806359 | 5.911 0.002 4051512 | 41.7532 | 37.8239 | 9.9 | 2,4-DDE |
| 5.581 | 0.000 3155299 | 6.007 0.000 6711636 | 40.1560 | 37.8112 | 6.0 | trans-Nonachlor |
| 5.832 | 0.002 1533008 | 6.400 0.002 3755364 | 38.4530 | 37.8870 | 1.5 | 2,4-DDD |
| 6.070 | 0.001 2128849 | 6.685 0.000 4171793 | 40.5326 | 38.7425 | 4.5 | 2,4-DDT |
| 6.198 | 0.000 3561502 | 6.733 0.000 6953265 | 40.9438 | 38.8449 | 5.3 | cis-Nonachlor |
| 7.063 | 0.000 2215404 | 7.862 0.000 3926734 | 38.4481 | 36.5034 | 5.2 | Mirex |
| 8.390 | 0.000 6638127 | 9.355 -0.001 8707514 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 2519639 | 3.589 0.001 7470290 | 35.2179 | 35.7624 | 1.5 | Tetrachloro-m-xylene |
| 8.250 | 0.000 2589198 | 8.908 0.000 4073118 | 34.7210 | 33.7885 | 2.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 88.0 | 89.4 | 88.0~ | 150- 0 |
| Decachlorobiphenyl | 86.8 | 84.5 | 84.5~ | 150- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

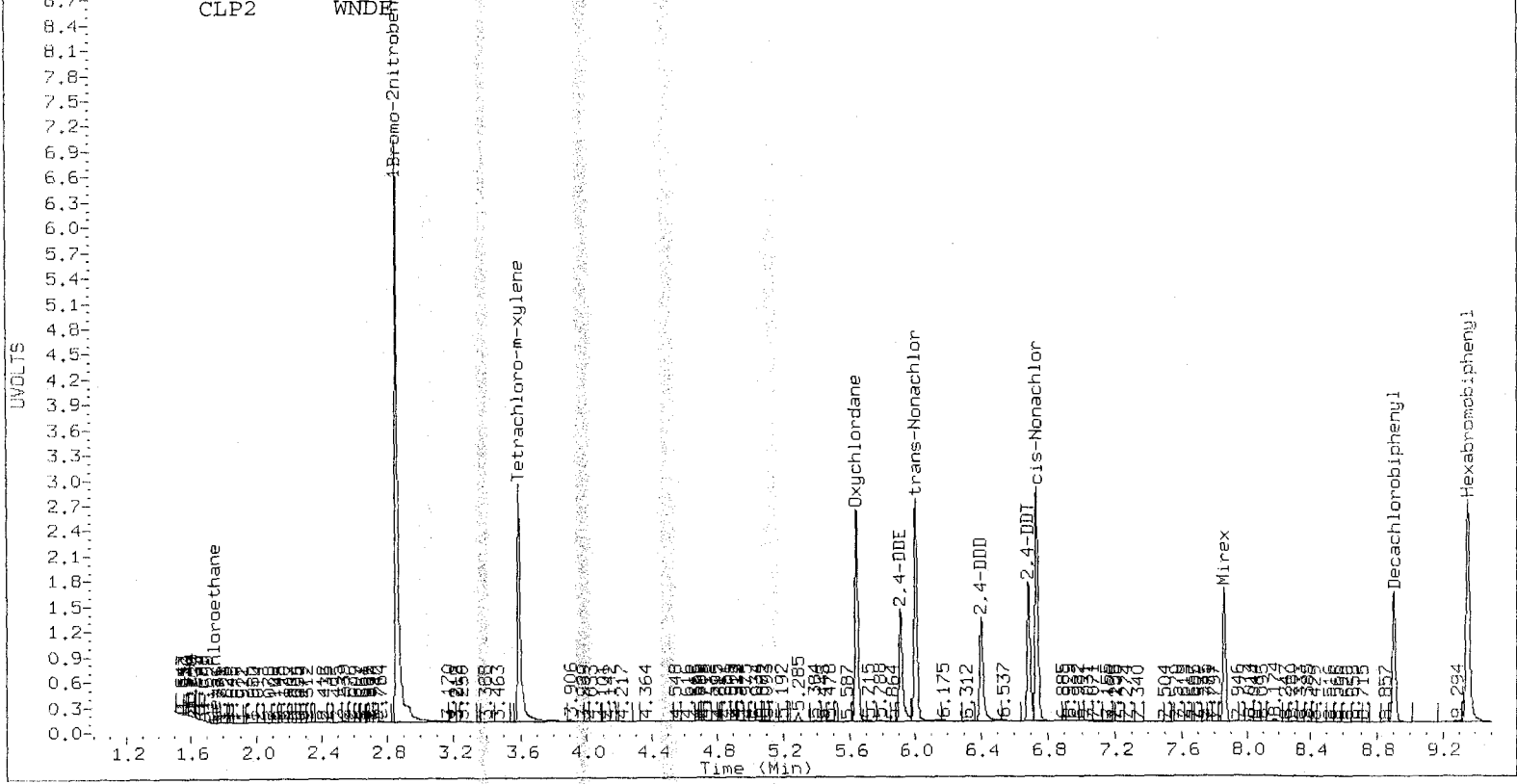
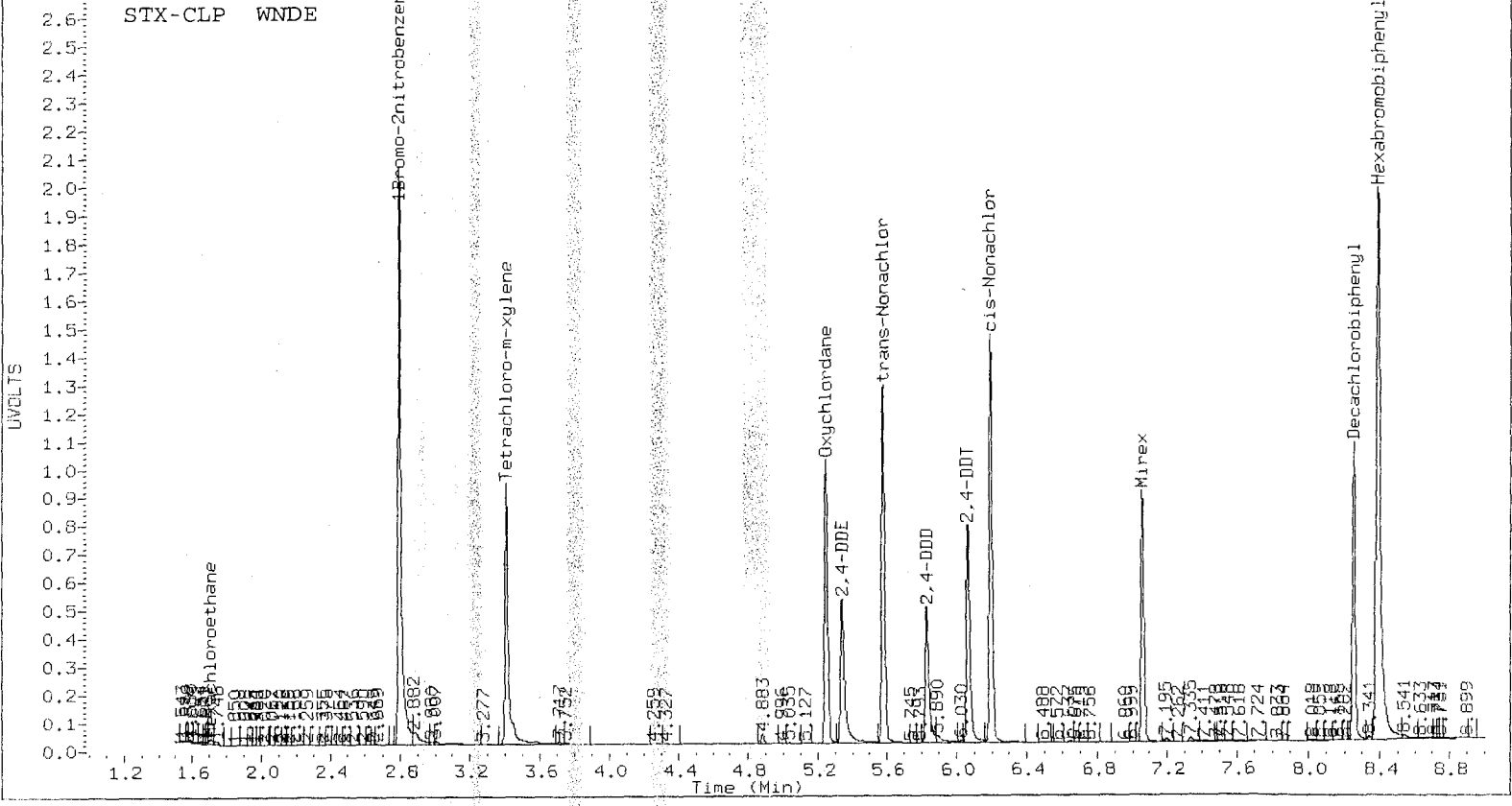
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4835108 | -0.1 |
| Hexabromobiphenyl | 6506091 | 6638127 | 2.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16832865 | 3.7 |
| Hexabromobiphenyl | 8472750 | 8707514 | 2.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A017.d ARI ID: WNDA
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A017.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 17:45
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 1.720 | 0.001 671 | 1.742 -0.028 5350 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 4751592 | 2.854 0.000 16405407 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.001 160052 | 5.644 0.000 446452 | 2.6372 | 2.7843 | 5.4 | Oxychlorane |
| 5.346 | 0.004 111139 | 5.912 0.002 289432 | 2.6005 | 2.7725 | 6.4 | 2,4-DDE |
| 5.581 | 0.001 214870 | 6.006 0.000 538166 | 2.7681 | 3.1045 | 11.5 | trans-Nonachlor |
| 5.835 | 0.004 109933 | 6.401 0.002 292931 | 2.7913 | 3.0262 | 8.1 | 2,4-DDD |
| 6.071 | 0.002 140821 | 6.686 0.001 311009 | 2.7141 | 2.9575 | 8.6 | 2,4-DDT |
| 6.198 | 0.001 223213 | 6.734 0.000 503939 | 2.5976 | 2.8828 | 10.4 | cis-Nonachlor |
| 7.063 | 0.000 170143 | 7.862 0.000 343940 | 2.9890 | 3.2739 | 9.1 | Mirex |
| 8.390 | 0.000 6557663 | 9.355 0.000 8503685 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.409 | 0.003 175117 | 3.590 0.002 492485 | 2.4907 | 2.4191 | 2.9 | Tetrachloro-m-xylene |
| 8.250 | 0.000 205878 | 8.909 0.001 295996 | 2.7947 | 2.5143 | 10.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 6.2 | 6.0 | 6.0~ | 150- 0 |
| Decachlorobiphenyl | 7.0 | 6.3 | 6.3~ | 150- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

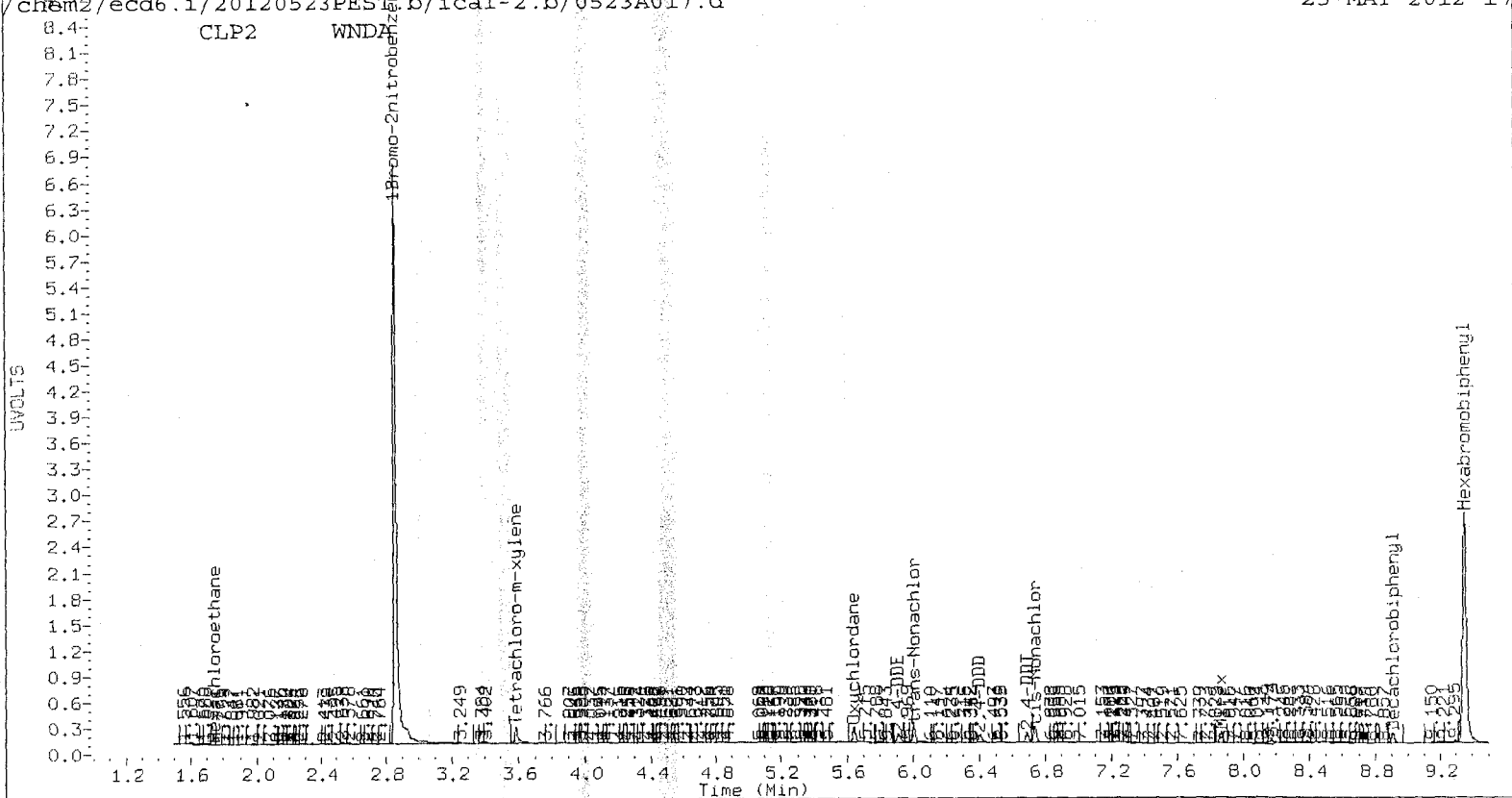
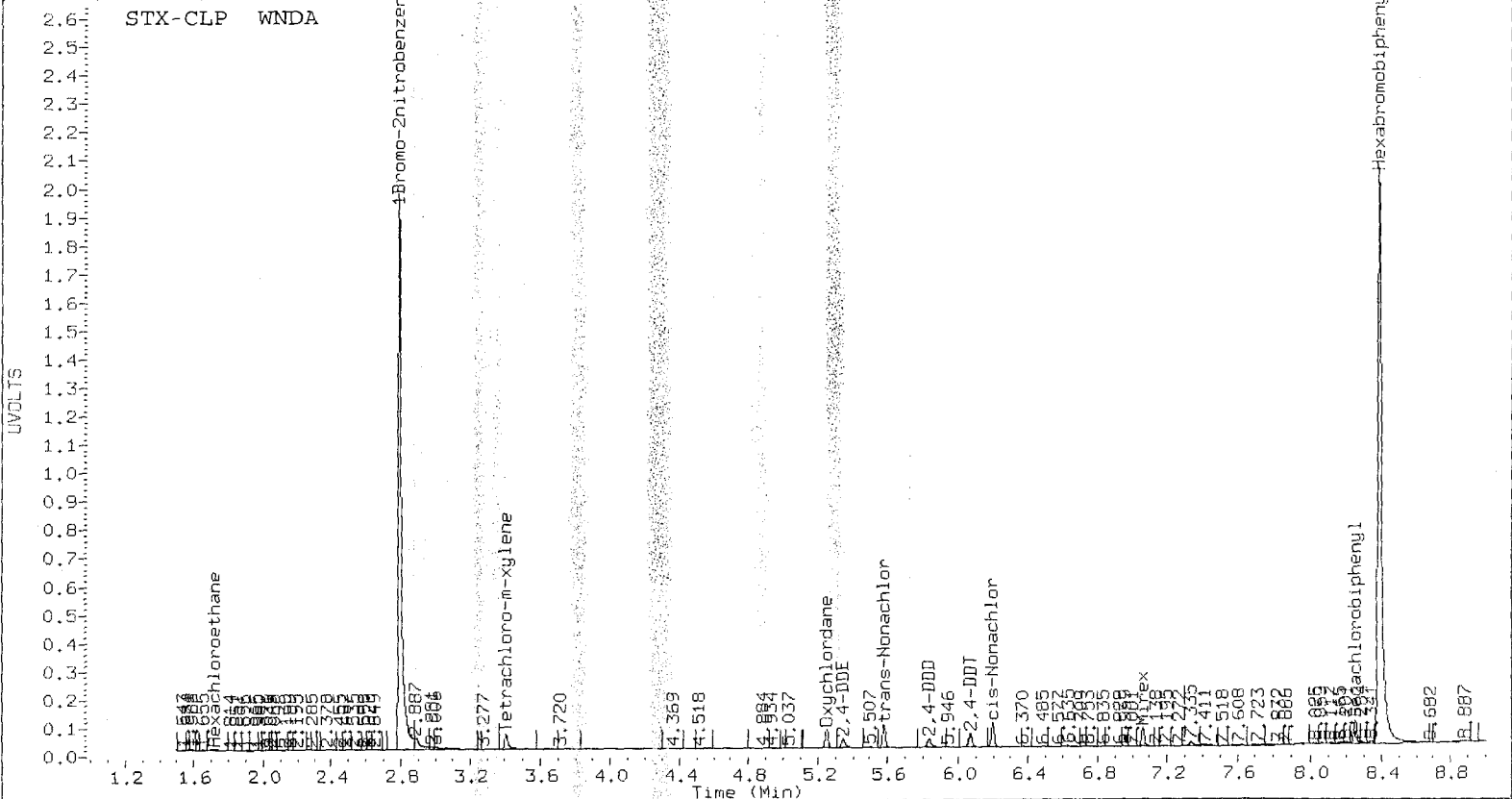
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4751592 | -1.9 |
| Hexabromobiphenyl | 6506091 | 6557663 | 0.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16405407 | 1.1 |
| Hexabromobiphenyl | 8472750 | 8503685 | 0.4 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A018.d ARI ID: WNDB
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A018.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 18:03
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|------|----------------------|
| 1.720 | 0.001 716 | 1.743 -0.027 6360 | 1.743 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 4969001 | 2.855 0.000 16776826 | 2.855 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 310432 | 5.643 -0.001 876559 | 5.643 | 5.0644 | 5.3456 | 5.4 | Oxychlorane |
| 5.345 | 0.004 207183 | 5.912 0.003 589932 | 5.912 | 4.7996 | 5.5259 | 14.1 | 2,4-DDE |
| 5.581 | 0.000 392794 | 6.006 0.000 973333 | 6.006 | 5.0101 | 5.4986 | 9.3 | trans-Nonachlor |
| 5.834 | 0.004 198101 | 6.401 0.002 545319 | 6.401 | 4.9801 | 5.5168 | 10.2 | 2,4-DDD |
| 6.070 | 0.002 255993 | 6.685 0.000 576129 | 6.685 | 4.8849 | 5.3652 | 9.4 | 2,4-DDT |
| 6.198 | 0.000 424902 | 6.733 0.000 951412 | 6.733 | 4.8957 | 5.3298 | 8.5 | cis-Nonachlor |
| 7.063 | 0.000 303419 | 7.862 -0.001 602158 | 7.862 | 5.2776 | 5.6132 | 6.2 | Mirex |
| 8.390 | 0.000 6623328 | 9.355 0.000 8683498 | 9.355 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.409 | 0.003 343862 | 3.589 0.001 979087 | 3.589 | 4.6768 | 4.7028 | 0.6 | Tetrachloro-m-xylene |
| 8.251 | 0.000 371153 | 8.908 0.000 591458 | 8.908 | 4.9883 | 4.9200 | 1.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 11.7 | 11.8 | 11.7~ | 150- 0 |
| Decachlorobiphenyl | 12.5 | 12.3 | 12.3~ | 150- 0 |

~ Indicates recovery outside QC Limits

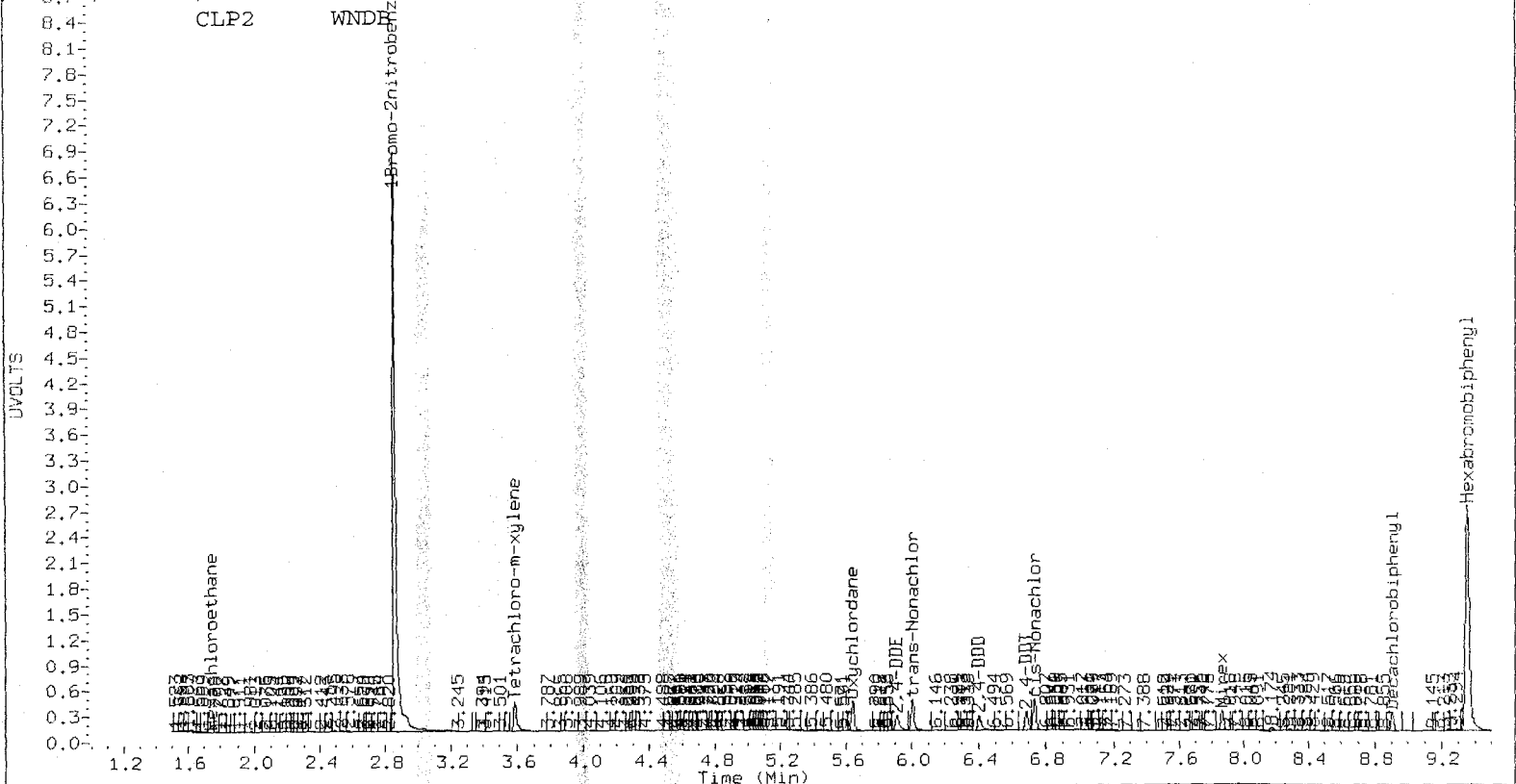
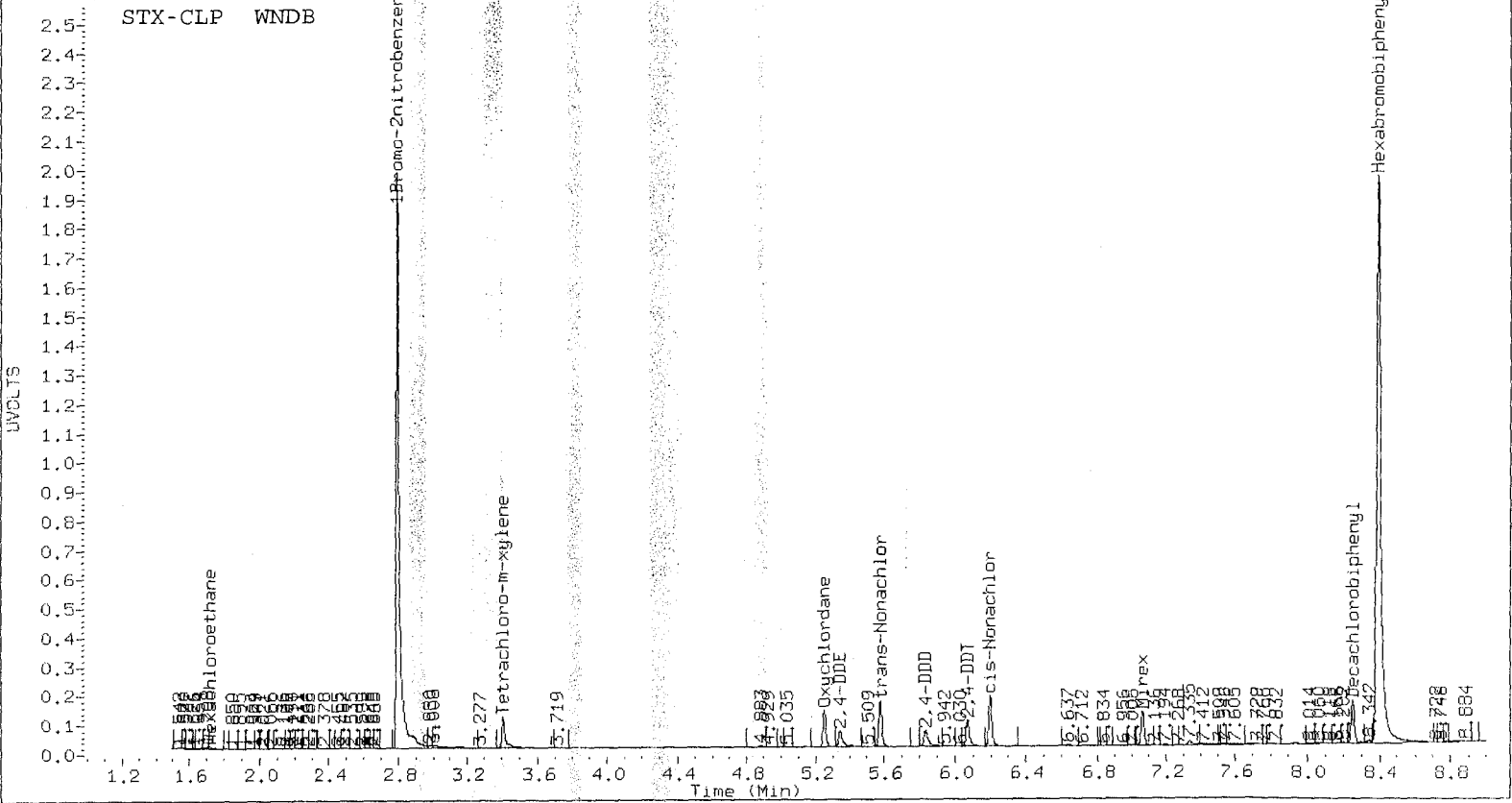
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4969001 | 2.6 |
| Hexabromobiphenyl | 6506091 | 6623328 | 1.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16776826 | 3.4 |
| Hexabromobiphenyl | 8472750 | 8683498 | 2.5 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A019.d ARI ID: WNDC
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A019.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 18:21
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|-----|----------------------|
| 1.720 | 0.001 771 | 1.742 -0.027 3926 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 5151057 | 2.855 0.001 17441474 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 621951 | 5.643 -0.001 1686093 | 9.8127 | 9.8907 | 0.8 | Oxychlorane |
| 5.344 | 0.003 418608 | 5.912 0.002 1101527 | 9.3786 | 9.9247 | 5.7 | 2,4-DDE |
| 5.580 | 0.000 782897 | 6.006 -0.001 1834116 | 9.6574 | 9.9624 | 3.1 | trans-Nonachlor |
| 5.834 | 0.004 404832 | 6.401 0.002 1039292 | 9.8425 | 10.1093 | 2.7 | 2,4-DDD |
| 6.070 | 0.002 514099 | 6.686 0.001 1104875 | 9.4875 | 9.8929 | 4.2 | 2,4-DDT |
| 6.198 | 0.000 862764 | 6.733 0.000 1860209 | 9.6137 | 10.0196 | 4.1 | cis-Nonachlor |
| 7.063 | 0.000 582103 | 7.862 0.000 1124184 | 9.7919 | 10.0759 | 2.9 | Mirex |
| 8.390 | 0.000 6848602 | 9.355 0.000 9031272 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 645430 | 3.589 0.002 1954069 | 8.4681 | 9.0283 | 6.4 | Tetrachloro-m-xylene |
| 8.250 | 0.000 700459 | 8.909 0.000 1118341 | 9.1044 | 8.9446 | 1.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 21.2 | 22.6 | 21.2~ | 150- 0 |
| Decachlorobiphenyl | 22.8 | 22.4 | 22.4~ | 150- 0 |

~ Indicates recovery outside QC Limits

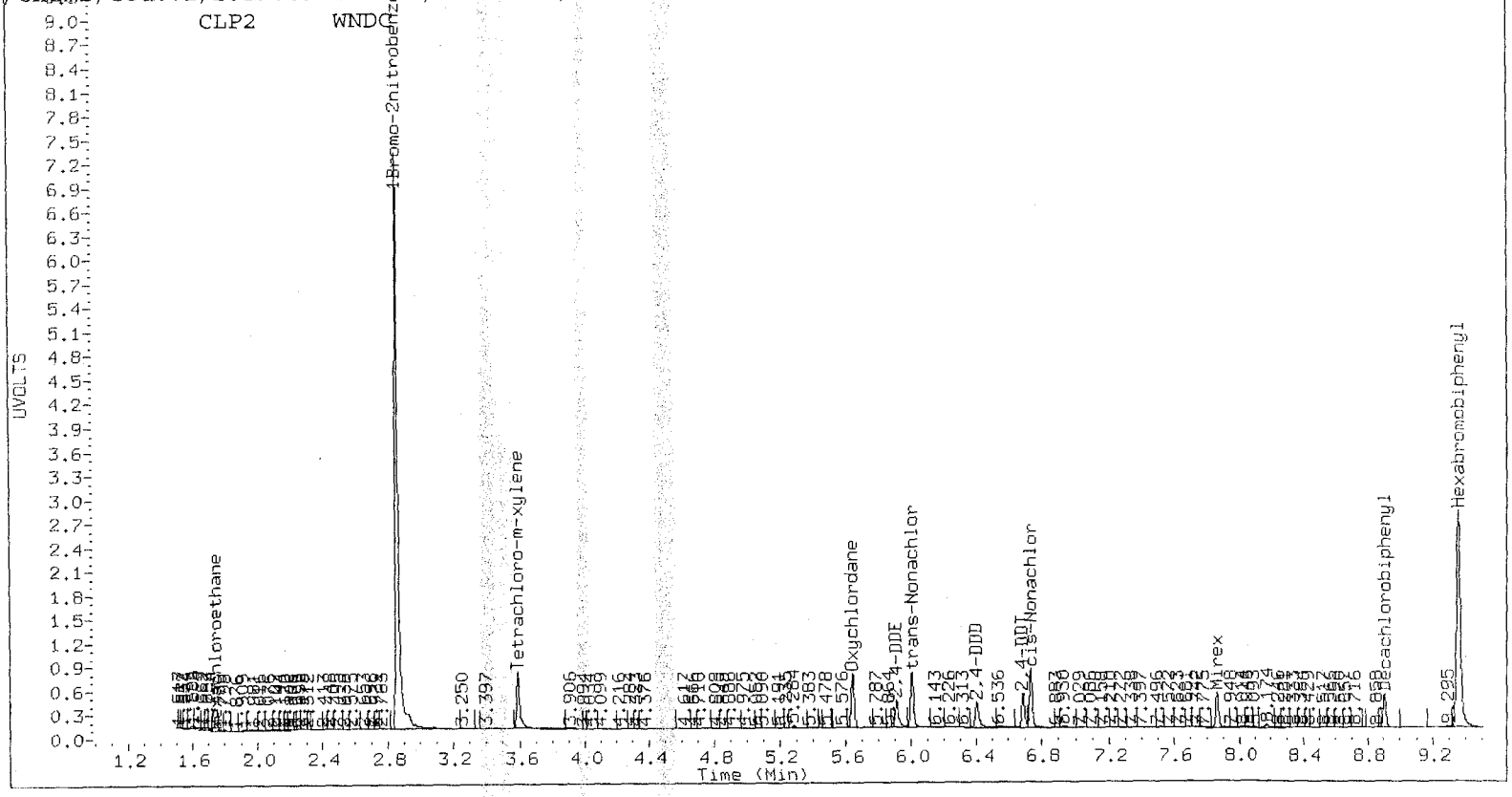
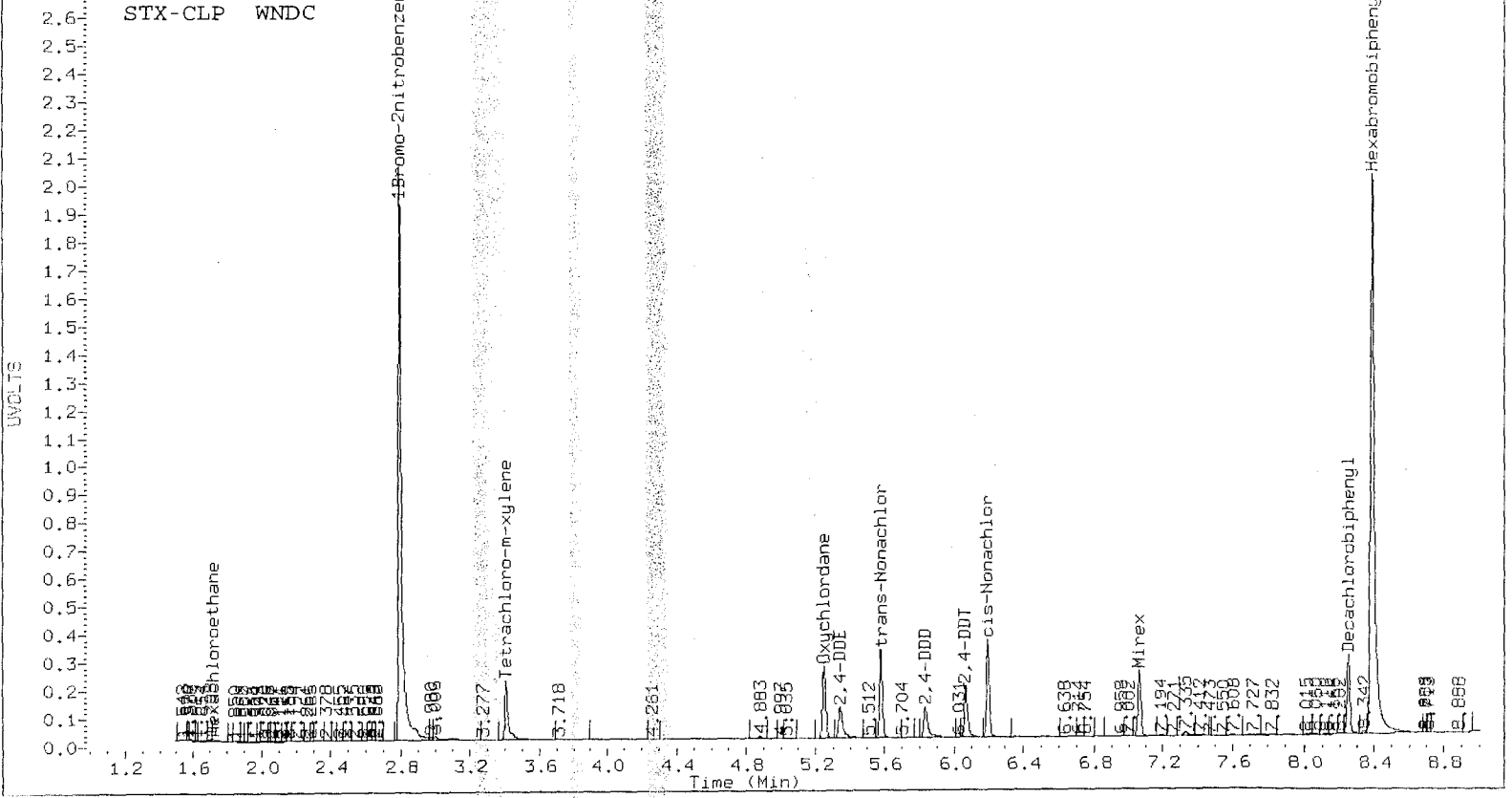
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 5151057 | 6.4 |
| Hexabromobiphenyl | 6506091 | 6848602 | 5.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 17441474 | 7.5 |
| Hexabromobiphenyl | 8472750 | 9031272 | 6.6 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/cal-1.b/0523A020.d ARI ID: WNDD
 Data file 2: /chem2/ecd6.i/20120523PEST.b/cal-2.b/0523A020.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 18:39
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|-----|----------------------|
| 1.719 | 0.000 980 | 1.743 -0.027 2643 | 1.743 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 5139758 | 2.855 0.000 16765159 | 2.855 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 1244004 | 5.644 0.000 3266712 | 5.644 | 19.7173 | 19.9357 | 1.1 | Oxychlorthane |
| 5.344 | 0.003 865078 | 5.911 0.002 2119113 | 5.911 | 19.4706 | 19.8634 | 2.0 | 2,4-DDE |
| 5.580 | 0.000 1587428 | 6.006 0.000 3518750 | 6.006 | 19.6717 | 19.2097 | 2.4 | trans-Nonachlor |
| 5.833 | 0.003 836100 | 6.401 0.002 1984803 | 6.401 | 20.4213 | 19.4042 | 5.1 | 2,4-DDD |
| 6.070 | 0.001 1058554 | 6.686 -0.001 2159167 | 6.686 | 19.6251 | 19.4308 | 1.0 | 2,4-DDT |
| 6.198 | 0.000 1773690 | 6.734 0.000 3650085 | 6.734 | 19.8551 | 19.7600 | 0.5 | cis-Nonachlor |
| 7.063 | 0.000 1132590 | 7.862 -0.001 2113030 | 7.862 | 19.1396 | 19.0347 | 0.5 | Mirex |
| 8.389 | 0.000 6817214 | 9.355 -0.001 8985763 | 9.355 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 1273314 | 3.589 0.001 3833481 | 3.589 | 16.7427 | 18.4261 | 9.6 | Tetrachloro-m-xylene |
| 8.250 | 0.000 1338360 | 8.908 0.000 2144309 | 8.908 | 17.4759 | 17.2373 | 1.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 41.9 | 46.1 | 41.9~ | 150- 0 |
| Decachlorobiphenyl | 43.7 | 43.1 | 43.1~ | 150- 0 |

~ Indicates recovery outside QC Limits

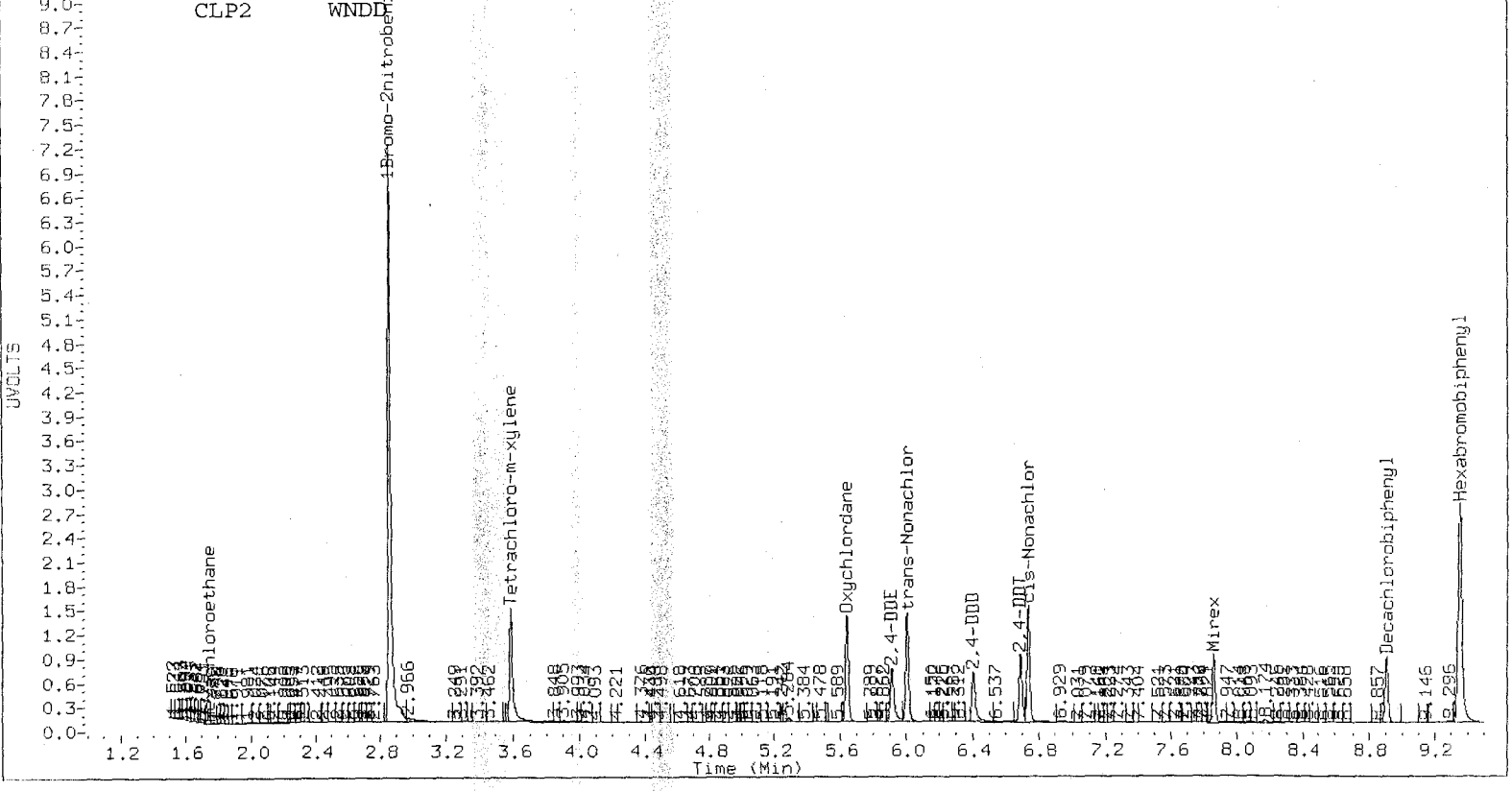
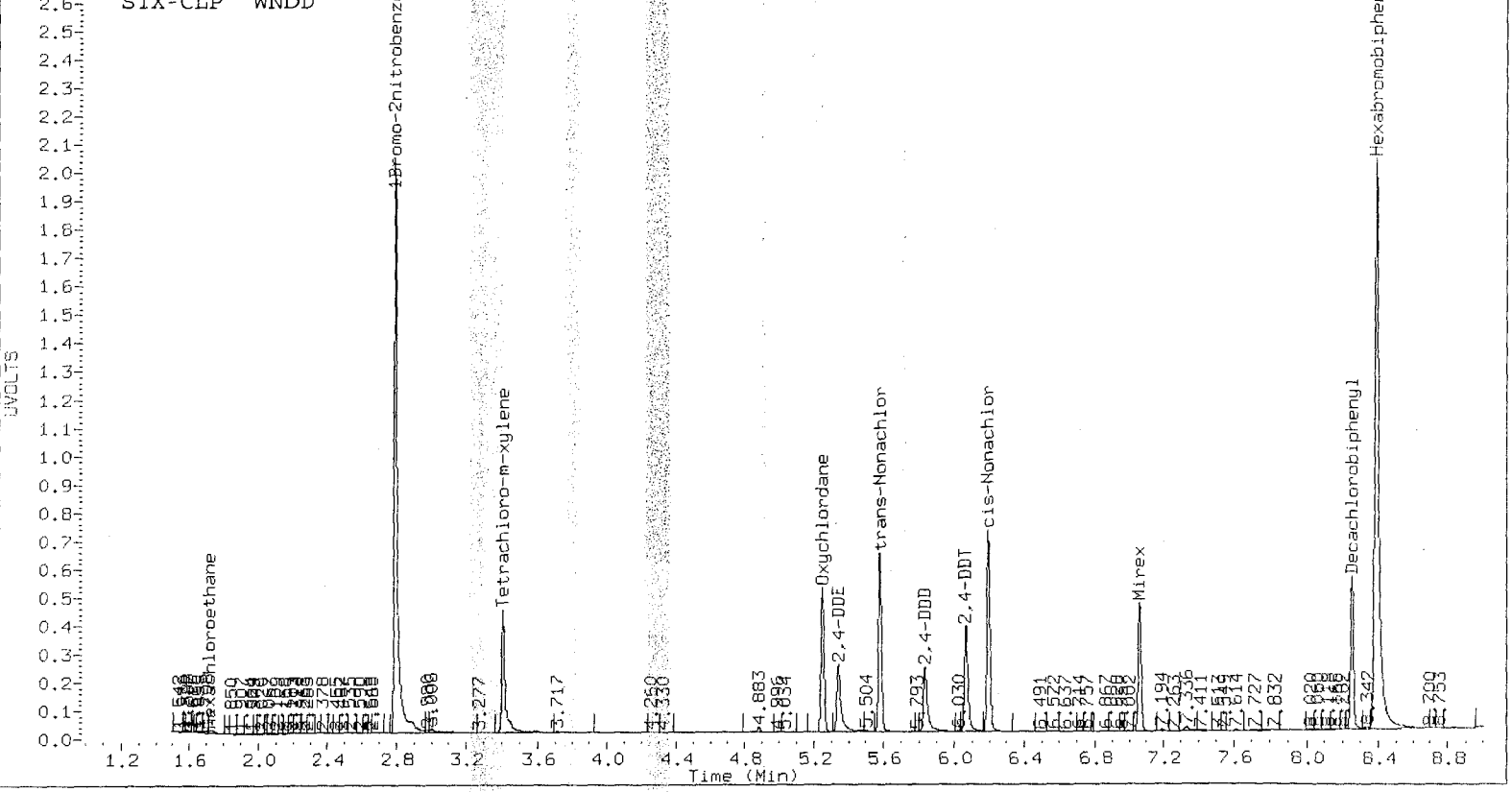
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5139758 | 6.2 |
| Hexabromobiphenyl | 6506091 | 6817214 | 4.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16765159 | 3.3 |
| Hexabromobiphenyl | 8472750 | 8985763 | 6.1 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A021.d ARI ID: WNDF
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A021.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 18:56
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col | | CLP2 Col | | | STX-CLP | | RPD | Compound/Flag |
|-------|-------------|----------|----------|--------|----------|---------|---------|------|----------------------|
| | Shift | Response | RT | Shift | Response | on col | on col | | |
| 1.720 | 0.000 | 1878 | 1.732 | -0.038 | 1290 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 | 4866835 | 2.855 | 0.000 | 17245332 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 | 4874124 | 5.643 | 0.000 | 12253281 | 78.5091 | 72.6956 | 7.7 | Oxychlorane |
| 5.342 | 0.001 | 3580207 | 5.911 | 0.001 | 7882613 | 81.8897 | 71.8300 | 13.1 | 2,4-DDE |
| 5.581 | 0.000 | 6205415 | 6.006 | 0.000 | 13100457 | 78.1477 | 71.5392 | 8.8 | trans-Nonachlor |
| 5.831 | 0.001 | 3064380 | 6.399 | 0.000 | 7336096 | 76.0613 | 71.7413 | 5.8 | 2,4-DDD |
| 6.069 | 0.000 | 4232688 | 6.685 | 0.000 | 8196343 | 79.7465 | 73.7819 | 7.8 | 2,4-DDT |
| 6.198 | 0.000 | 7056608 | 6.733 | 0.000 | 13669155 | 80.2761 | 74.0205 | 8.1 | cis-Nonachlor |
| 7.063 | 0.000 | 4334801 | 7.862 | -0.001 | 7654587 | 74.4434 | 68.9746 | 7.6 | Mirex |
| 8.390 | 0.000 | 6708266 | 9.355 | 0.000 | 8983150 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 | 4847655 | 3.588 | 0.001 | 14619710 | 67.3158 | 68.3147 | 1.5 | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 5034638 | 8.908 | 0.000 | 8129576 | 66.8084 | 65.3695 | 2.2 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 168.3 | 170.8 | 168.3~ | 150- 0 |
| Decachlorobiphenyl | 167.0 | 163.4 | 163.4~ | 150- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

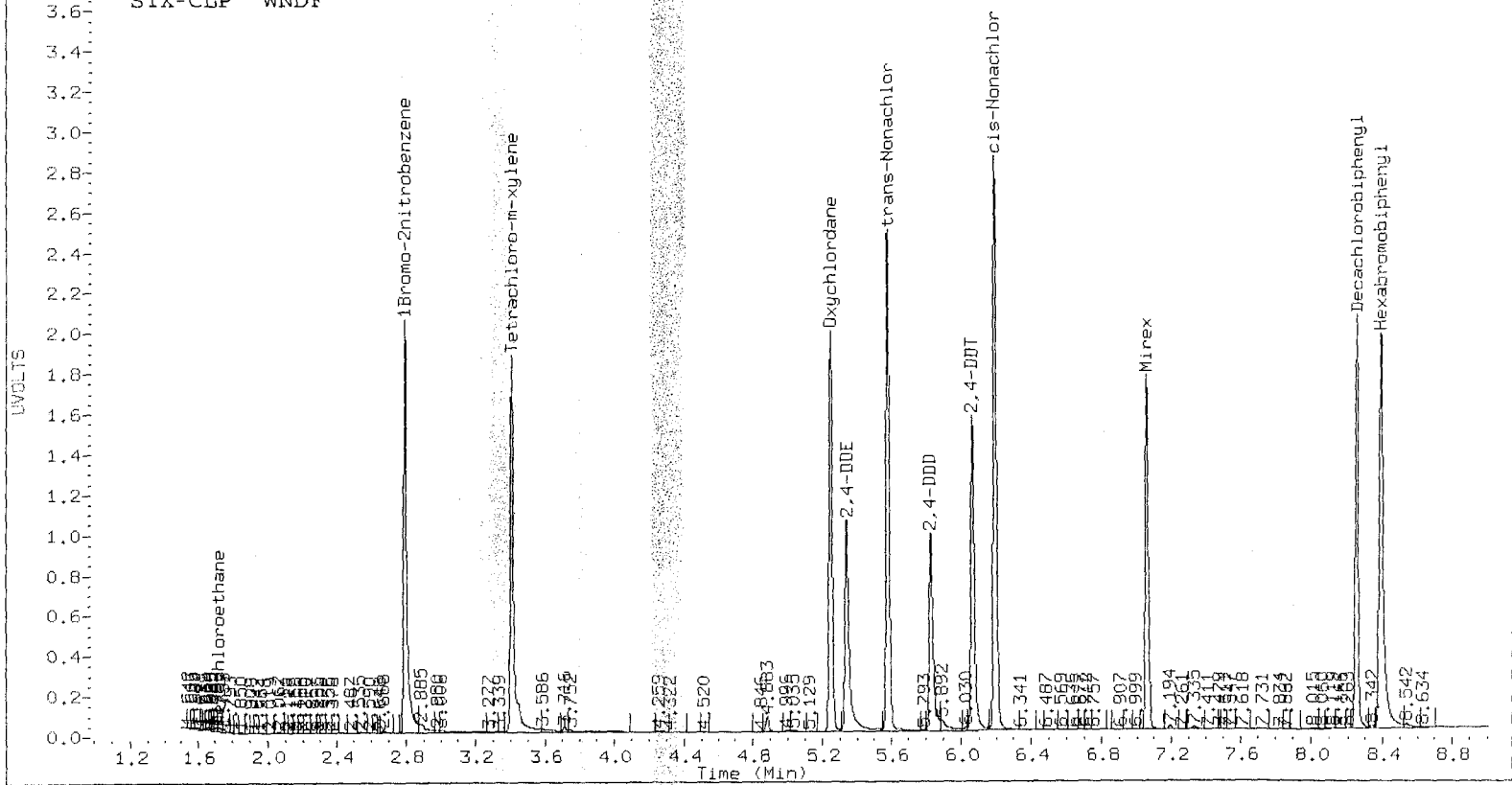
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4866835 | 0.5 |
| Hexabromobiphenyl | 6506091 | 6708266 | 3.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 17245332 | 6.3 |
| Hexabromobiphenyl | 8472750 | 8983150 | 6.0 |

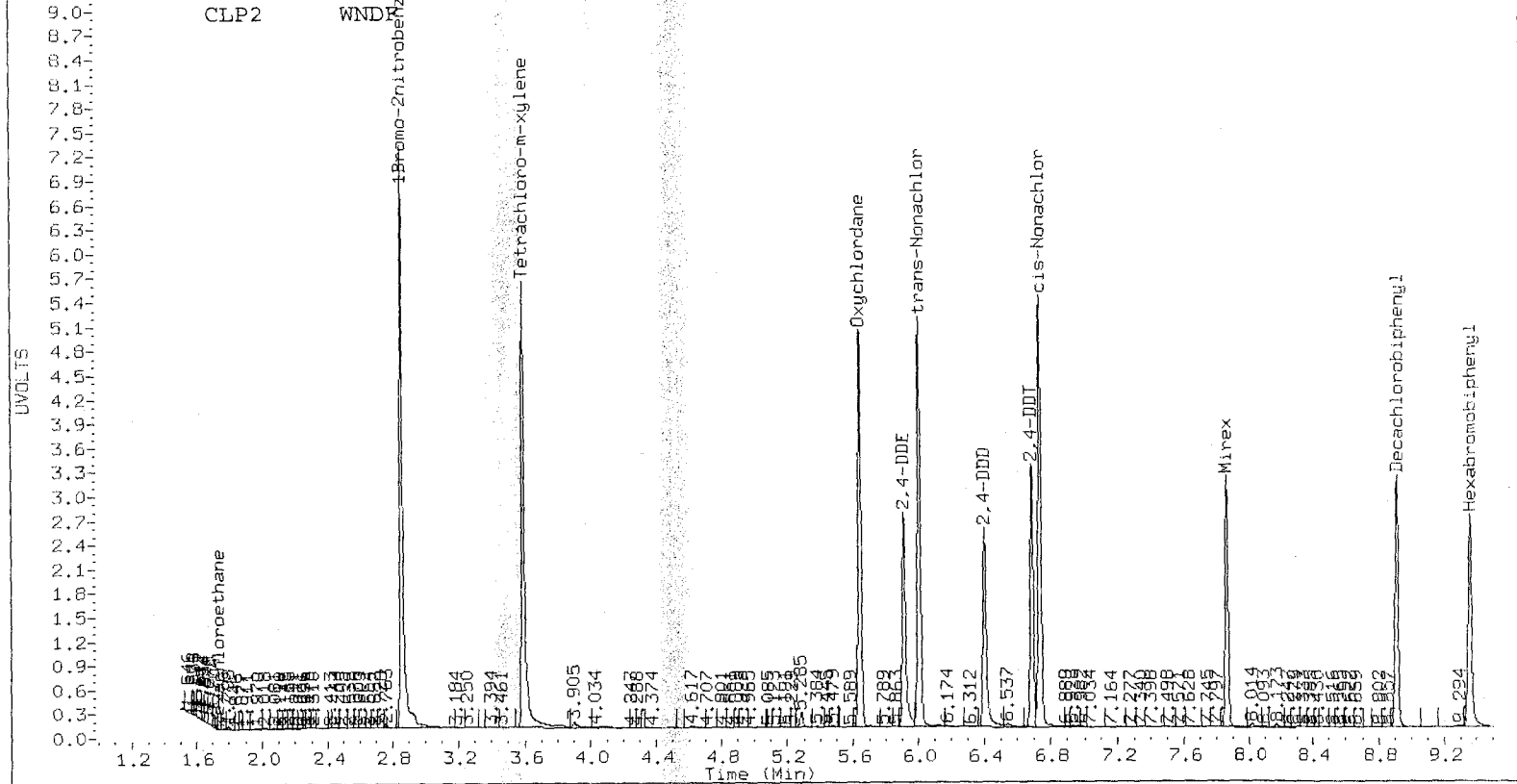
* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP WNDP



CLP2 WNDP



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A022.d ARI ID: WNDG
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A022.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 19:14
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|------|----------------------|
| 1.719 | 0.000 3456 | 1.770 0.000 10682 | 1.770 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 4729578 | 2.855 0.000 15111899 | 2.855 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 9440579 | 5.644 0.000 22965237 | 5.644 | 155.6168 | 155.4817 | 0.1 | Oxychlorthane |
| 5.341 | 0.000 6979272 | 5.909 0.000 14720365 | 5.909 | 163.3676 | 153.0759 | 6.5 | 2,4-DDE |
| 5.580 | 0.000 11926612 | 6.006 0.000 24656545 | 6.006 | 153.7081 | 137.9560 | 10.8 | trans-Nonachlor |
| 5.830 | 0.000 6110160 | 6.399 0.000 13750429 | 6.399 | 155.2059 | 137.7752 | 11.9 | 2,4-DDD |
| 6.068 | 0.000 8275364 | 6.685 0.000 15479328 | 6.685 | 159.5573 | 142.7686 | 11.1 | 2,4-DDT |
| 6.197 | 0.000 13752448 | 6.734 0.000 25797699 | 6.734 | 160.1050 | 143.1338 | 11.2 | cis-Nonachlor |
| 7.063 | 0.000 8384360 | 7.863 0.000 14447903 | 7.863 | 147.3537 | 133.3898 | 9.9 | Mirex |
| 8.389 | 0.000 6555048 | 9.355 0.000 8767543 | 9.355 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.406 | 0.000 9514710 | 3.587 0.000 27715764 | 3.587 | 135.9580 | 147.7934 | 8.3 | Tetrachloro-m-xylene |
| 8.251 | 0.000 9704386 | 8.909 0.000 15533401 | 8.909 | 131.7847 | 127.9749 | 2.9 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 339.9 | 369.5 | 339.9~ | 150- 0 |
| Decachlorobiphenyl | 329.5 | 319.9 | 319.9~ | 150- 0 |

~ Indicates recovery outside QC Limits

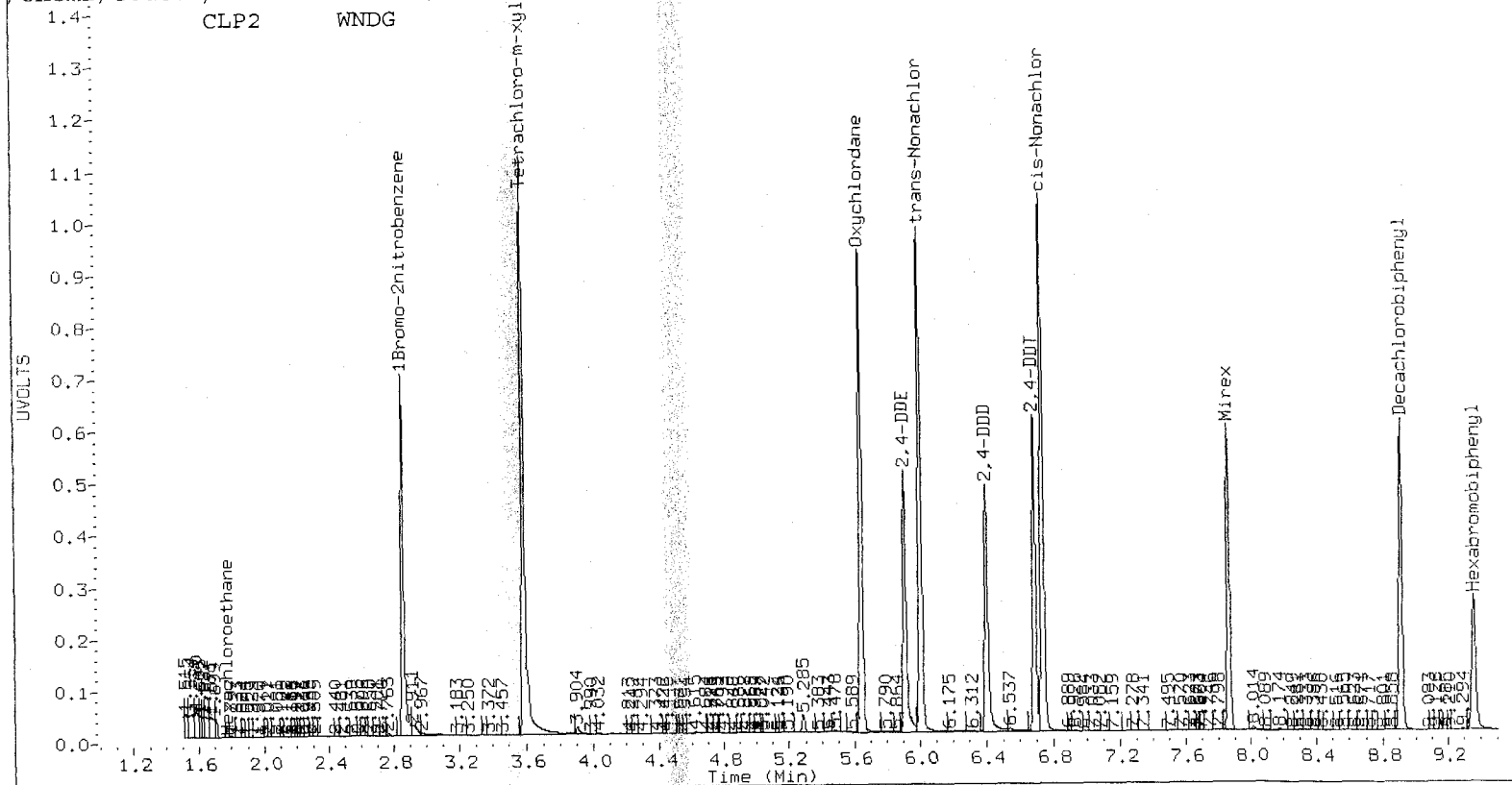
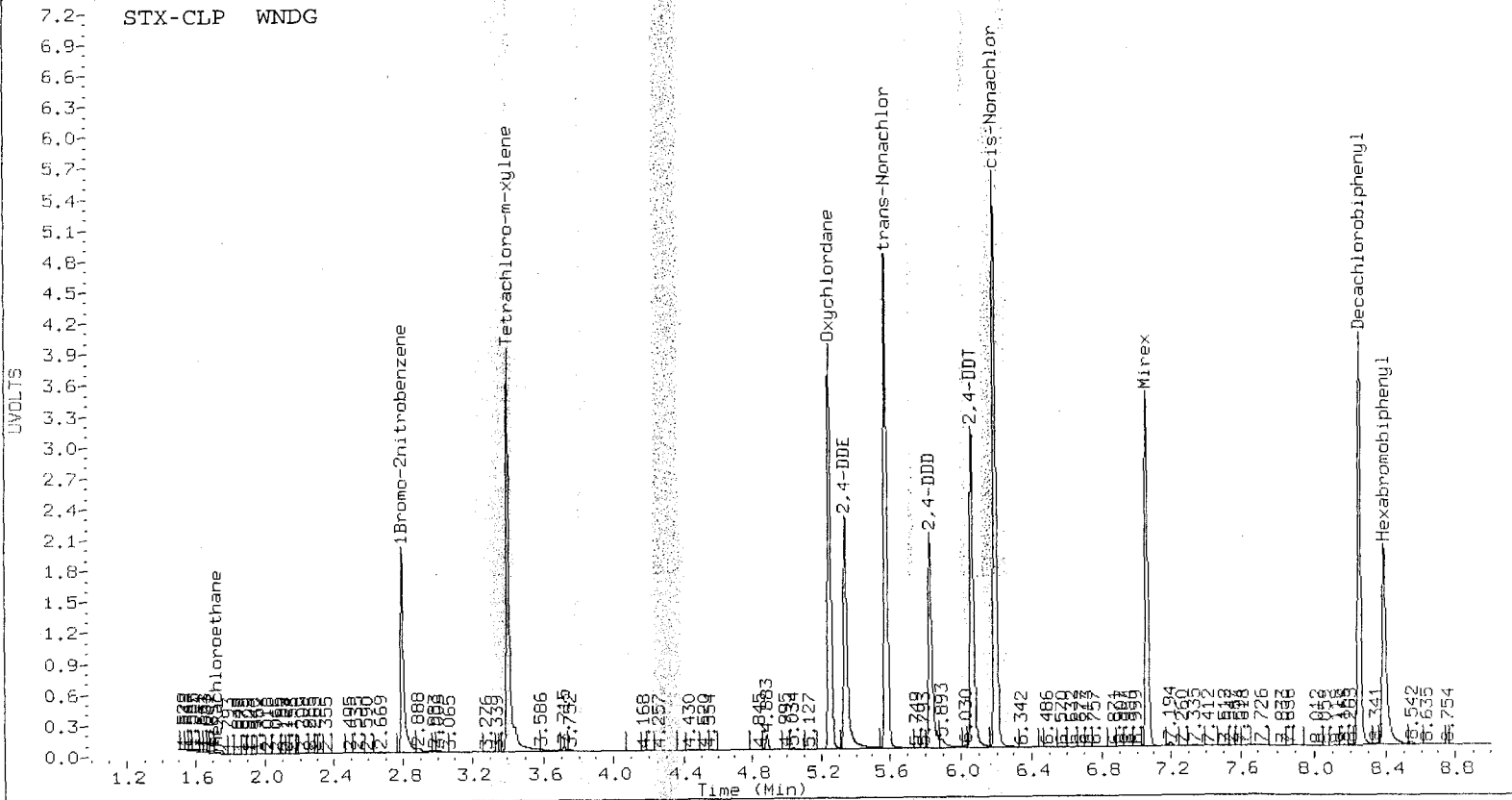
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4729578 | -2.3 |
| Hexabromobiphenyl | 6506091 | 6555048 | 0.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15111899 | -6.9 |
| Hexabromobiphenyl | 8472750 | 8767543 | 3.5 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|-------------|-------|----|-------|--------|----------|-------|----|-------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A025.d ARI ID: WND ASSAY
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A025.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 20:08
 Compound Sublist: WND Report Date: 05/24/2012 10:39
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|------|----------------------|
| 1.720 | 0.001 899 | 1.770 0.000 6947 | 1.770 | 0.000 6947 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.797 | 0.001 4602996 | 2.855 0.001 16499244 | 2.855 | 0.001 16499244 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.252 | 0.000 2329206 | 5.644 0.000 6100747 | 5.644 | 0.000 6100747 | 39.7784 | 37.8309 | 5.0 | Oxychlorthane |
| 5.345 | 0.004 1686660 | 5.912 0.003 3882022 | 5.912 | 0.003 3882022 | 40.9039 | 36.9744 | 10.1 | 2,4-DDE |
| 5.581 | 0.001 3038443 | 6.007 0.000 6772217 | 6.007 | 0.000 6772217 | 40.5707 | 37.7448 | 7.2 | trans-Nonachlor |
| 5.834 | 0.004 1543766 | 6.401 0.003 3587514 | 6.401 | 0.003 3587514 | 40.6274 | 35.8069 | 12.6 | 2,4-DDD |
| 6.070 | 0.002 1856634 | 6.686 0.001 3712658 | 6.686 | 0.001 3712658 | 37.0883 | 34.1102 | 8.4 | 2,4-DDT |
| 6.198 | 0.001 3299011 | 6.734 0.001 6708178 | 6.734 | 0.001 6708178 | 39.7915 | 37.0752 | 7.1 | cis-Nonachlor |
| 7.063 | 0.000 2065376 | 7.863 0.000 3769199 | 7.863 | 0.000 3769199 | 37.6073 | 34.6645 | 8.1 | Mirex |
| 8.392 | 0.003 6326954 | 9.357 0.002 8801559 | 9.357 | 0.002 8801559 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.408 | 0.002 2315465 | 3.589 0.001 7254307 | 3.589 | 0.001 7254307 | 33.9961 | 35.4307 | 4.1 | Tetrachloro-m-xylene |
| 8.251 | 0.001 2428829 | 8.909 0.000 4124811 | 8.909 | 0.000 4124811 | 34.1724 | 33.8517 | 0.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 85.0 | 88.6 | 85.0~ | 150- 0 |
| Decachlorobiphenyl | 85.4 | 84.6 | 84.6~ | 150- 0 |

~ Indicates recovery outside QC Limits

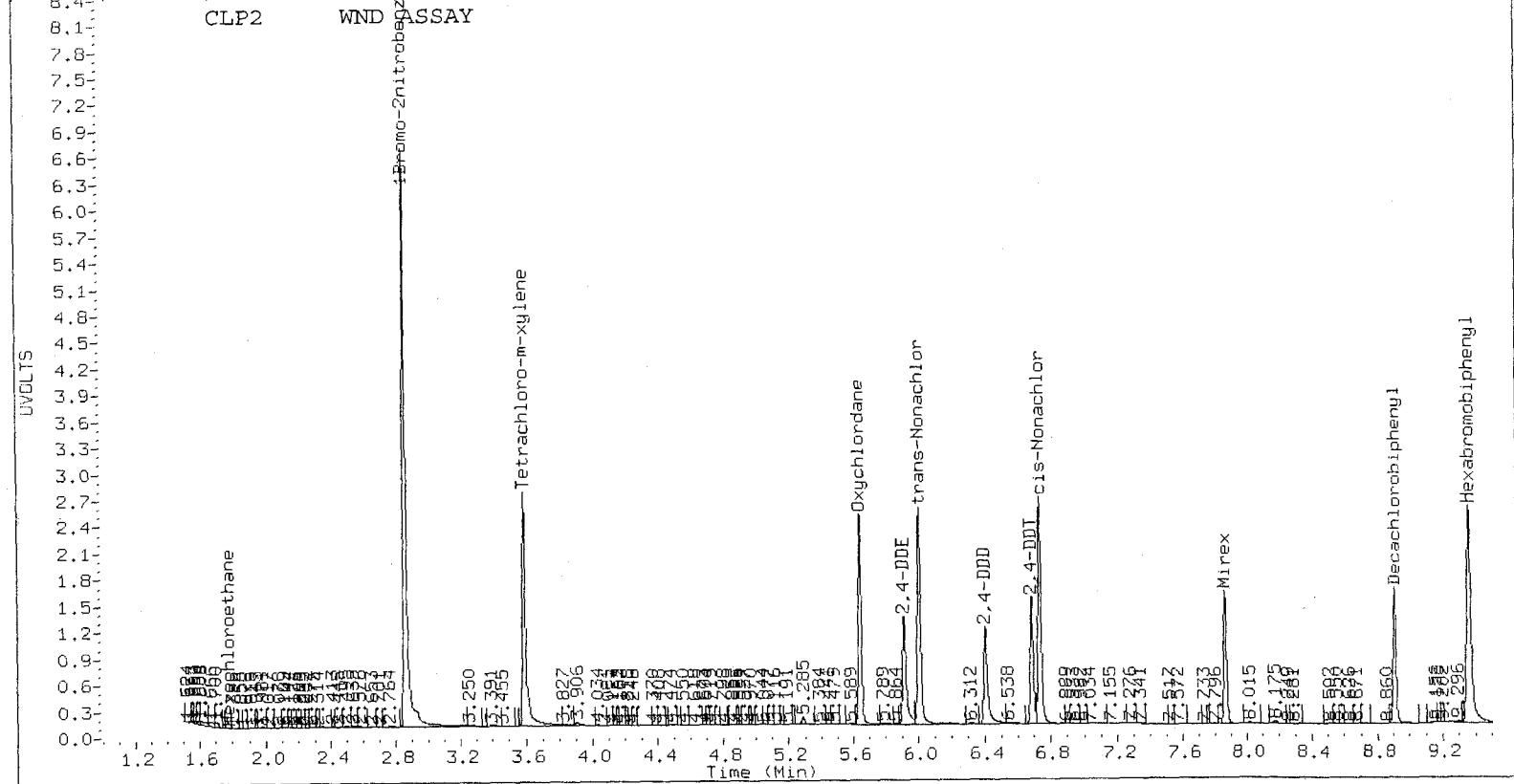
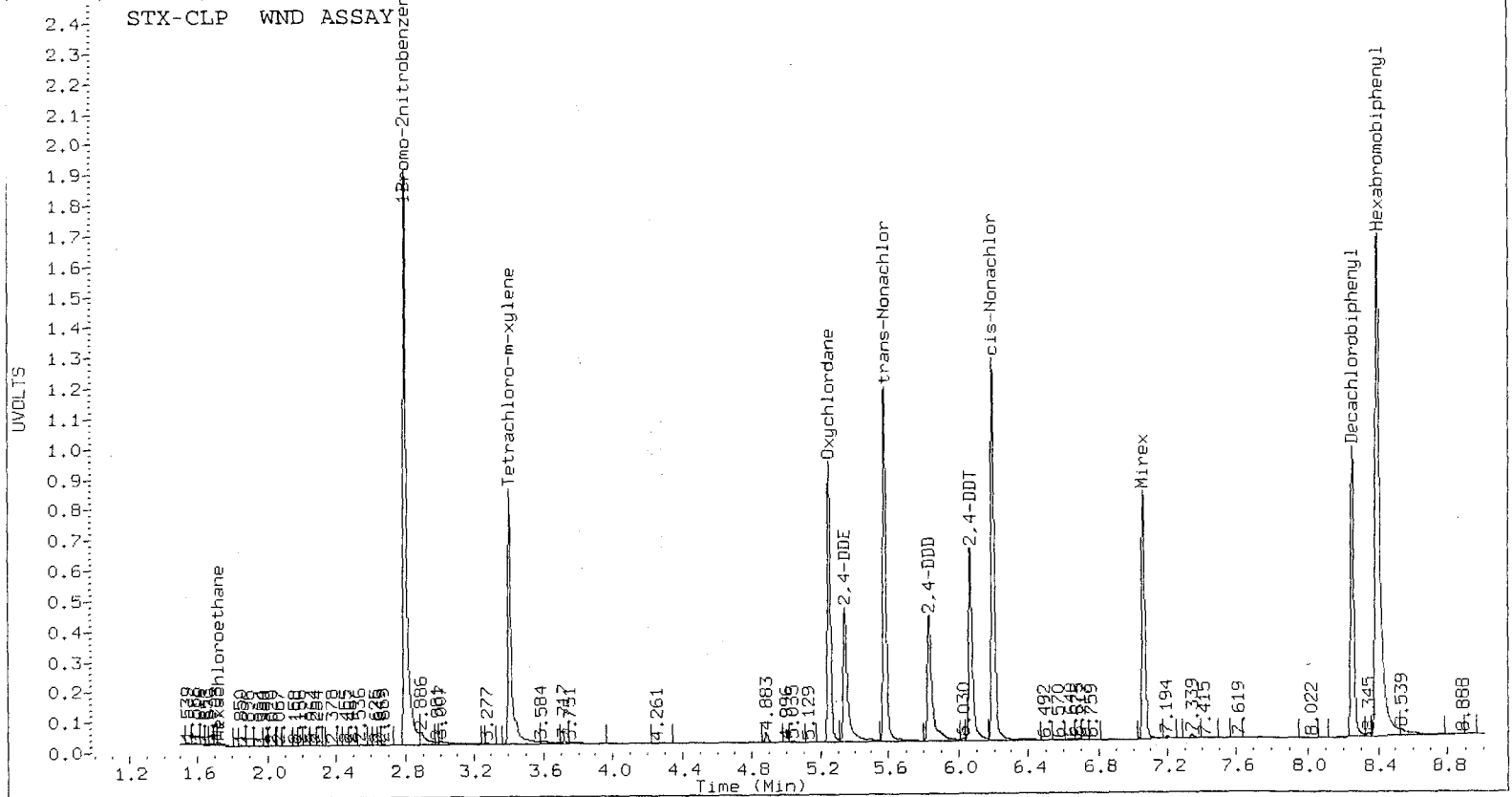
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4602996 | -4.9 |
| Hexabromobiphenyl | 6506091 | 6326954 | -2.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16499244 | 1.7 |
| Hexabromobiphenyl | 8472750 | 8801559 | 3.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|-------------|-------|----|-------|--------|----------|-------|----|-------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A026.d ARI ID: TECH 200
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A026.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 20:25
 Compound Sublist: wpest Report Date: 05/24/2012 10:39
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.796 | 0.000 | 4562991 | 2.855 | 0.000 | 15945583 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 3.868 | 0.021 | 4566 | 4.138 | 0.030 | 107658 | 0.0502 | 0.3965 | 155.1* | alpha-BHC | |
| 4.201 | 0.018 | 22822 | 4.488 | -0.014 | 8161 | 0.6721 | 0.0781 | 158.3* | beta-BHC | |
| 4.354 | 0.017 | 20484 | 4.776 | -0.006 | 12166 | 0.3084 | 0.0628 | 132.4* | delta-BHC | |
| 4.082 | -0.024 | 52422 | 4.444 | 0.015 | 73059 | 0.6864 | 0.3154 | 74.1* | gamma-BHC (Lindane) | |
| 4.518 | 0.000 | 764991 | 4.849 | 0.000 | 2019507 | 9.0741 | 8.6617 | 4.6 | Heptachlor | |
| 4.803 | 0.016 | 10336 | 5.189 | 0.019 | 8218 | 0.1337 | 0.0407 | 106.7* | Aldrin | |
| 5.356 | 0.011 | 187675 | 5.759 | 0.026 | 109557 | 2.7255 | 0.5588 | 131.9* | Heptachlor epoxide b | |
| 5.746 | 0.024 | 51193 | 6.117 | -0.001 | 93422 | 0.5508 | 0.5475 | 0.6 | Endosulfan I | |
| 5.969 | 0.023 | 64282 | 6.384 | 0.007 | 493987 | 0.8686 | 2.8003 | 105.3* | Dieldrin | |
| 5.673 | 0.003 | 124031 | 6.191 | -0.017 | 222137 | 2.6493 | 1.4238 | 60.2* | 4,4'-DDE | |
| 6.144 | -0.019 | 24645 | 6.664 | 0.000 | 85347 | 0.3646 | 0.5703 | 44.0* | Endrin | |
| 6.376 | 0.005 | 41123 | 6.840 | -0.017 | 104854 | 0.6252 | 0.6915 | 10.1 | Endosulfan II | |
| 6.273 | 0.046 | 46367 | ---- | ---- | ---- | 0.8713 | 0.0000 | --- | 4,4'-DDD | |
| 7.145 | 0.007 | 18680 | 7.427 | 0.023 | 14630 | 0.3230 | 0.1256 | 88.0* | Endosulfan sulfate | |
| 6.537 | 0.053 | 128160 | 7.042 | 0.008 | 58596 | 2.1929 | 0.4758 | 128.7* | 4,4'-DDT | |
| 6.941 | 0.017 | 10757 | 7.614 | -0.015 | 2291 | 0.3613 | 0.0426 | 157.8* | Methoxychlor | |
| 7.415 | 0.027 | 12454 | 7.888 | 0.007 | 35341 | 0.1699 | 0.2356 | 32.4 | Endrin ketone | |
| 6.778 | 0.030 | 8806 | 7.192 | 0.034 | 227112 | 0.1660 | 1.9666 | 168.9* | Endrin aldehyde | |
| 5.472 | 0.002 | 1881074 | 5.919 | 0.001 | 3838053 | 25.1933 | 21.0989 | 17.7 | gamma-Chlordane | |
| 5.590 | -0.003 | 2972544 | 6.058 | 0.000 | 3216479 | 41.8338 | 18.5794 | 77.0* | alpha-Chlordane | |
| 2.067 | 0.013 | 12736 | 2.111 | -0.002 | 14490 | 0.1266 | 0.0492 | 88.1* | Hexachlorobutadiene | |
| 3.718 | 0.001 | 49842 | 3.998 | 0.003 | 30473 | 0.7942 | 0.1229 | 146.4* | Hexachlorobenzene | |
| 5.287 | 0.036 | 296791 | 5.622 | -0.022 | 23697 | 5.1022 | 0.1520 | 188.4* | Oxychlordane | |
| 5.392 | 0.051 | 347500 | 5.956 | 0.047 | 171367 | 8.4832 | 1.6889 | 133.6* | 2,4-DDE | |
| ---- | ---- | ---- | 6.007 | 0.001 | 3209415 | 0.0000 | 18.0608 | --- | trans-Nonachlor | |
| 5.823 | -0.007 | 51398 | ---- | ---- | ---- | 1.3616 | 0.0000 | --- | 2,4-DDD | |
| 6.109 | 0.041 | 78135 | 6.693 | 0.008 | 32652 | 1.5712 | 0.3029 | 135.4* | 2,4-DDT | |
| 6.198 | 0.001 | 358108 | 6.734 | 0.001 | 682292 | 4.3480 | 3.8075 | 13.3 | cis-Nonachlor | |
| 7.018 | -0.045 | 3063 | 7.833 | -0.029 | 59967 | 0.0561 | 0.5568 | 163.4* | Mirex | |
| 8.393 | 0.004 | 6285326 | 9.357 | 0.002 | 8717161 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 1.721 | 0.001 | 2424 | 1.771 | 0.001 | 11565 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.408 | 0.002 | 2197447 | 3.589 | 0.001 | 5651184 | 32.5462 | 28.5592 | 13.0 | Tetrachloro-m-xylene | |
| 8.252 | 0.001 | 2383811 | 8.909 | 0.000 | 4031615 | 33.7611 | 33.4072 | 1.1 | Decachlorobiphenyl | |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01263

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 81.4 | 71.4 | 71.4~ | 130- 0 |
| Decachlorobiphenyl | 84.4 | 83.5 | 83.5~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4562991 | -5.8 |
| Hexabromobiphenyl | 6506091 | 6285326 | -3.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15945583 | -1.7 |
| Hexabromobiphenyl | 8472750 | 8717161 | 2.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-----------------------------------|-------|-------|--------|--------|---------------------------------|----------|-------|--------|---------|------------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.430 | 0.006 | 18562 | 6.214 | 1 | 6.586 | -0.021 | 41377 | 8.732 |
| Toxaphene | 2 | --- | --- | --- | 0.000 | 2 | 6.904 | -0.028 | 1044538 | 147.713 |
| Toxaphene | 3 | 6.670 | -0.004 | 19581 | 9.284 | 3 | 7.192 | 0.027 | 227112 | 30.548 |
| Toxaphene | 4 | 6.865 | -0.012 | 10318 | 4.549 | 4 | 7.614 | -0.011 | 2291 | 0.388 |
| Toxaphene | 5 | 7.018 | -0.038 | 3063 | 0.886 | 5 | 7.668 | -0.002 | 20492 | 2.547 |
| Toxaphene | 6 | 7.339 | -0.036 | 49325 | 20.355 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (5 peaks): 8.258 | | | | | Total CLP2Ave (5 peaks): 37.986 | | | | | RPD = 129* |
| Corrected Ave (4 peaks): 5.233 | | | | | Corrected Ave (4 peaks): 10.554 | | | | | RPD = 67* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

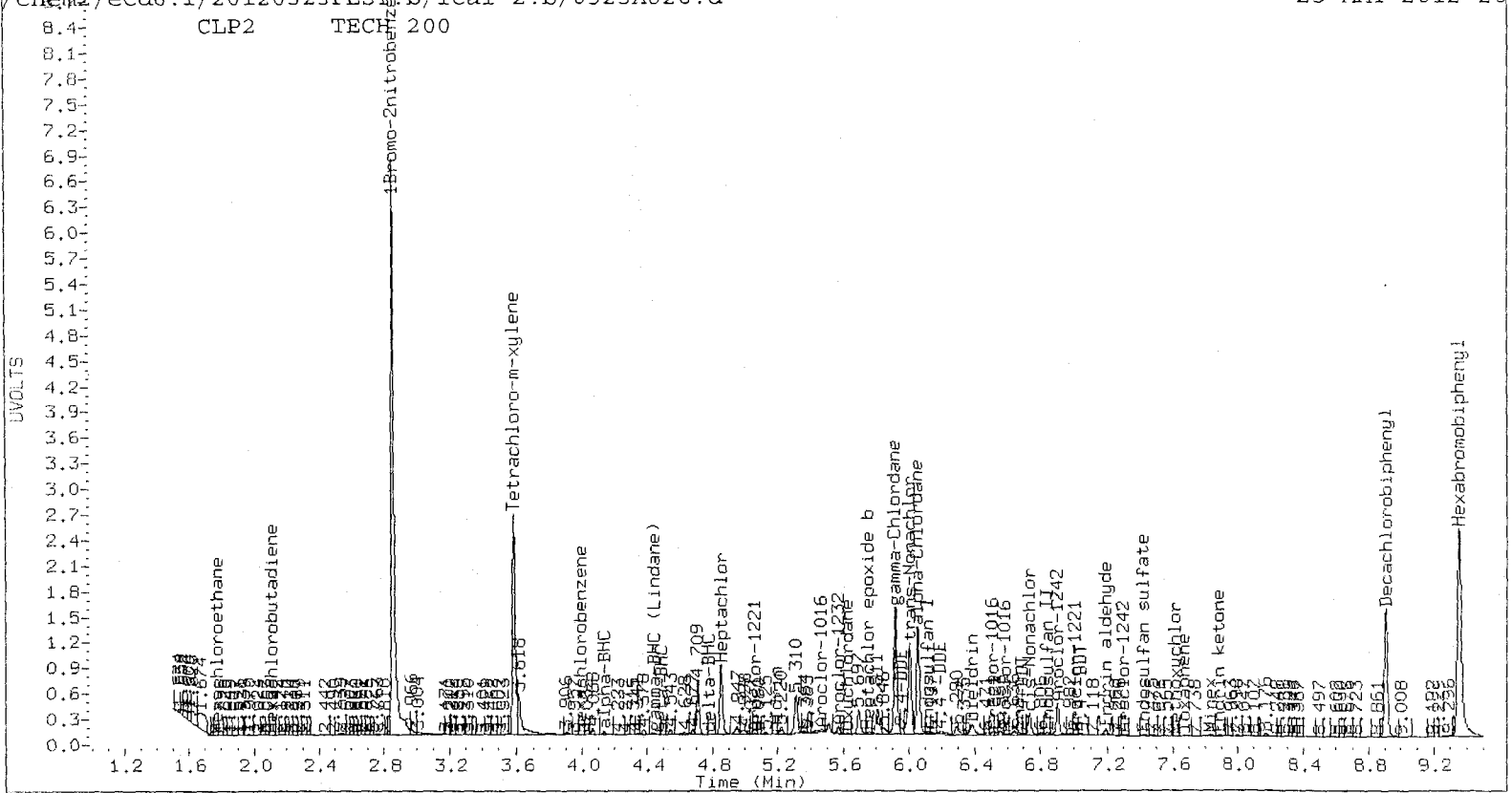
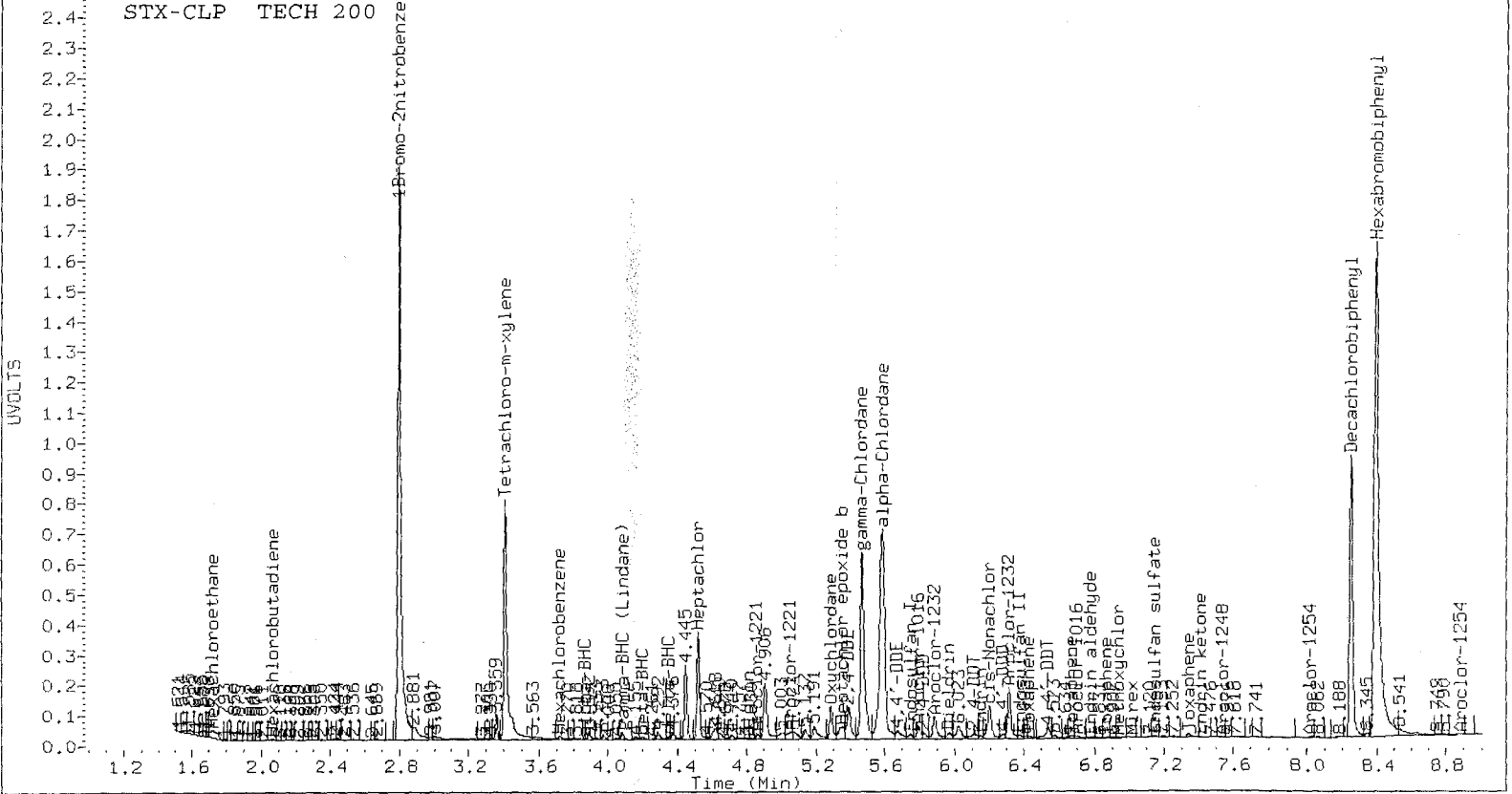
CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/24/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A013.d ARI ID: INDA ICV
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A013.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 16:34
 Compound Sublist: INDA Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|-------|----------------------------|-------------------|-------------------|-------------------|----------------------|
| 2.796 | 0.000 4744837 | 2.854 | 0.000 15077669 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | 0.000 3740489 | 4.106 | -0.001 10016820 | 39.5109 | 39.0145 | 1.3 | alpha-BHC |
| 4.182 | -0.001 1418882 | 4.501 | -0.001 3844948 | 40.1820 | 38.9303 | 3.2 | beta-BHC |
| 4.336 | -0.001 3152314 | 4.781 | -0.002 8096829 | 45.6398 | 44.1816 | 3.2 | delta-BHC |
| 4.106 | 0.000 3321451 | 4.427 | -0.001 8882954 | 41.8241 | 40.5493 | 3.1 | gamma-BHC (Lindane) |
| 4.517 | -0.001 3518724 | 4.848 | -0.001 8066590 | 40.1383 | 36.5894 | 9.3 | Heptachlor |
| 4.787 | 0.000 3319989 | 5.170 | -0.001 7324048 | 41.2882 | 38.3286 | 7.4 | Aldrin |
| 5.345 | 0.000 2867166 | 5.731 | -0.001 6872610 | 40.0418 | 37.0733 | 7.7 | Heptachlor epoxide b |
| 5.721 | -0.001 3248579 | 6.117 | -0.001 6025435 | 33.6116 | 37.3431 | 10.5 | Endosulfan I |
| 5.946 | -0.001 3116730 | 6.376 | -0.001 6592318 | 40.5021 | 39.5214 | 2.5 | Dieldrin |
| 5.669 | -0.001 2281319 | 6.208 | 0.000 5954112 | 46.8620 | 40.3612 | 14.9 | 4,4'-DDE |
| 6.162 | -0.001 2815270 | 6.664 | -0.001 5555736 | 40.5389 | 38.5579 | 5.0 | Endrin |
| 6.370 | -0.001 2644000 | 6.857 | 0.000 5358089 | 39.1200 | 36.7021 | 6.4 | Endosulfan II |
| 6.228 | 0.001 2250397 | 6.748 | 0.000 4648327 | 41.1559 | 38.6052 | 6.4 | 4,4'-DDD |
| 7.138 | 0.000 2303614 | 7.404 | 0.000 4349758 | 38.7677 | 38.7796 | 0.0 | Endosulfan sulfate |
| 6.483 | 0.000 2516300 | 7.034 | 0.000 4637108 | 41.9031 | 39.1106 | 6.9 | 4,4'-DDT |
| 6.923 | 0.000 1250896 | 7.629 | 0.000 2140991 | 40.8865 | 41.3381 | 1.1 | Methoxychlor |
| 7.388 | 0.000 2786124 | 7.882 | 0.000 5326344 | 36.9856 | 36.8849 | 0.3 | Endrin ketone |
| 6.748 | -0.001 2009177 | 7.158 | 0.000 3955687 | 36.8622 | 35.5757 | 3.6 | Endrin aldehyde |
| 5.469 | 0.000 3093617 | 5.918 | 0.000 6669679 | 39.8450 | 38.7757 | 2.7 | gamma-Chlordane |
| 5.593 | 0.000 2988150 | 6.057 | -0.001 6378947 | 40.4417 | 38.9679 | 3.7 | alpha-Chlordane |
| 2.052 | -0.002 2714 | 2.110 | -0.003 18116 | 0.0259 | 0.0650 | 85.9* | Hexachlorobutadiene |
| 3.715 | -0.002 40895 | 3.987 | -0.008 15471 | 0.6266 | 0.0660 | 161.9* | Hexachlorobenzene |
| 8.388 | -0.002 6458219 | 9.354 | -0.001 8393228 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.000 2075561 | 3.587 | 0.000 6793897 | 29.5628 | 36.3105 | 20.5 | Tetrachloro-m-xylene |
| 8.250 | 0.000 2434582 | 8.908 | 0.000 3931074 | 33.5571 | 33.8313 | 0.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 73.9 | 90.8 | 73.9~ | 115- 0 |
| Decachlorobiphenyl | 83.9 | 84.6 | 83.9~ | 115- 0 |

~ Indicates recovery outside QC Limits

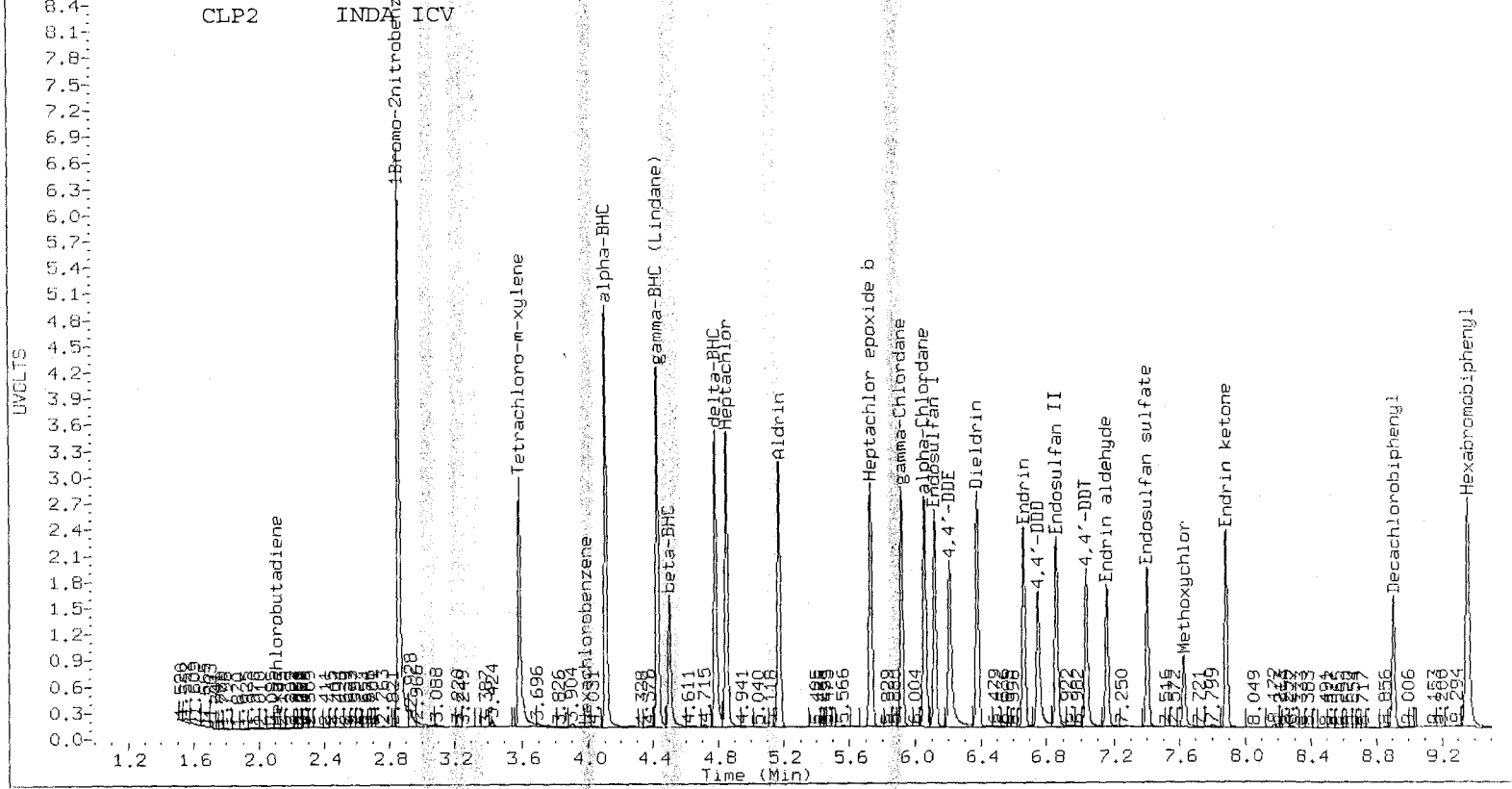
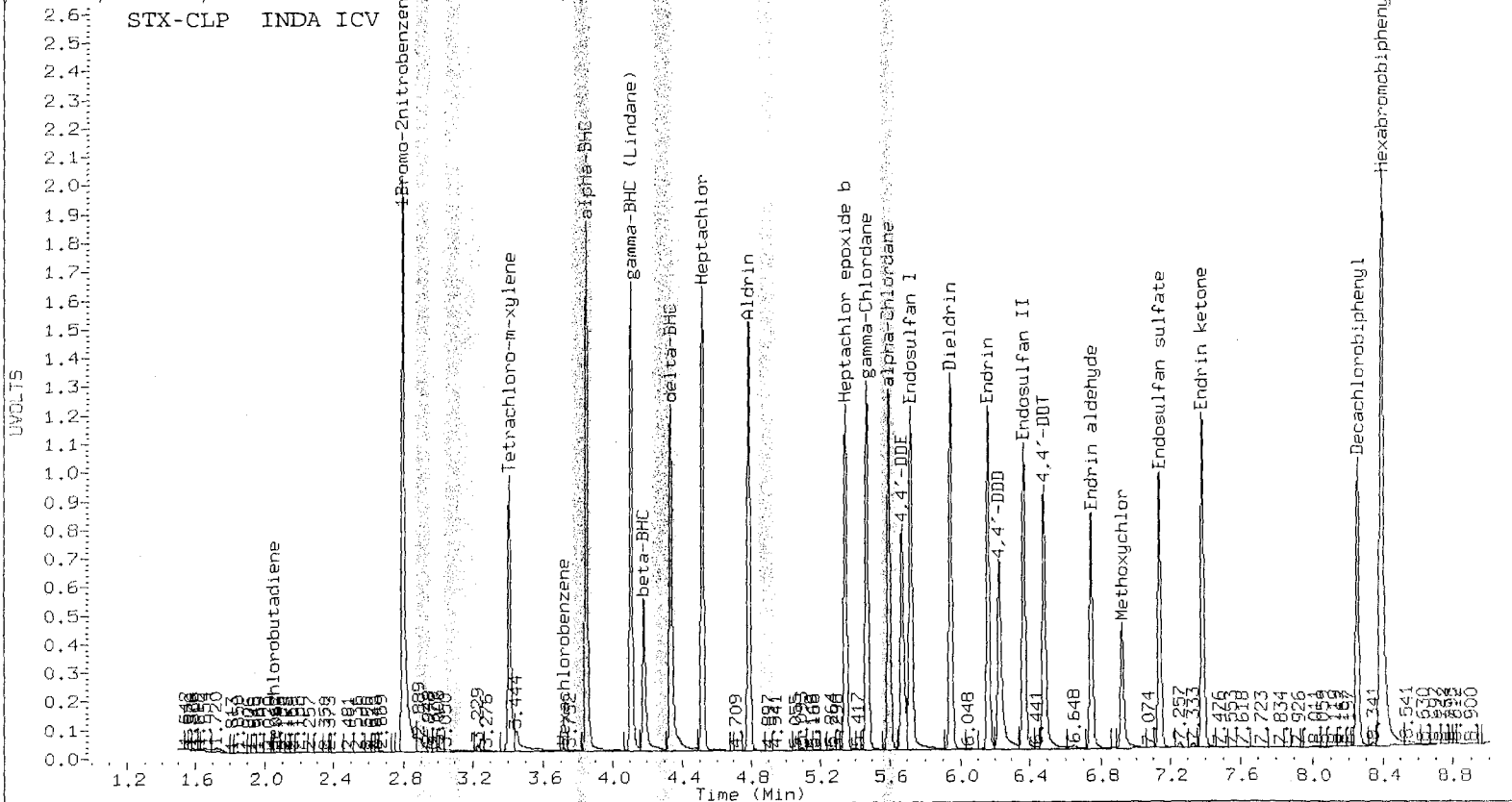
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4744837 | -2.0 |
| Hexabromobiphenyl | 6506091 | 6458219 | -0.7 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15077669 | -7.1 |
| Hexabromobiphenyl | 8472750 | 8393228 | -0.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/24/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A014.d ARI ID: HCB/HCBD ICV
Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A014.d Client ID:
Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m
Compound Sublist: INDA
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: ar

Injection Date: 23-MAY-2012 16:52
Report Date: 05/24/2012 10:07
Matrix: NONE
Dilution Factor: 1.000

HCB 40.8 # HCB D 46.5

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------|-------------------------|-------------------|-------------|-------------------|----------------------|
| 2.796 | 0.000 4813617 | 2.854 | 0.000 15147530 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.882 | 0.035 74200 | --- | --- | 0.7726 | 0.0000 | --- | alpha-BHC |
| 4.196 | 0.013 8533 | 4.501 | -0.001 7590 | 0.2382 | 0.0765 | 102.8* | beta-BHC |
| 4.320 | -0.017 22232 | 4.781 | -0.002 6349 | 0.3173 | 0.0345 | 160.8* | delta-BHC |
| 4.107 | 0.001 15516 | --- | --- | 0.1926 | 0.0000 | --- | gamma-BHC (Lindane) |
| 4.521 | 0.003 8762 | 4.841 | -0.008 7809 | 0.0985 | 0.0353 | 94.6* | Heptachlor |
| 4.809 | 0.022 6216 | 5.190 | 0.019 91775 | 0.0762 | 0.4781 | 145.0* | Aldrin |
| 5.353 | 0.007 3288 | 5.718 | -0.015 44903 | 0.0453 | 0.2411 | 136.8* | Heptachlor epoxide b |
| --- | --- | 6.135 | -0.017 24824 | 0.0000 | 0.1531 | --- | Endosulfan I |
| 5.946 | 0.000 4698 | 6.375 | -0.002 17842 | 0.0602 | 0.1065 | 55.6* | Dieldrin |
| 5.666 | -0.004 9735 | 6.207 | -0.001 67201 | 0.1971 | 0.4534 | 78.8* | 4,4'-DDE |
| 6.121 | -0.042 1742 | 6.683 | 0.019 16250 | 0.0241 | 0.1090 | 127.6* | Endrin |
| 6.370 | -0.001 1446 | 6.853 | -0.004 31013 | 0.0206 | 0.2054 | 163.6* | Endosulfan II |
| 6.227 | 0.000 5374 | 6.746 | -0.003 33975 | 0.0945 | 0.2728 | 97.1* | 4,4'-DDD |
| 7.139 | 0.001 4247 | 7.385 | -0.019 6543 | 0.0687 | 0.0564 | 19.6 | Endosulfan sulfate |
| 6.481 | -0.003 5176 | 7.036 | 0.002 29597 | 0.0828 | 0.2414 | 97.8* | 4,4'-DDT |
| 6.922 | -0.001 4680 | 7.624 | -0.005 15622 | 0.1470 | 0.2917 | 65.9* | Methoxychlor |
| 7.408 | 0.019 17271 | 7.874 | -0.007 14340 | 0.2203 | 0.0960 | 78.6* | Endrin ketone |
| 6.746 | -0.002 2882 | 7.156 | -0.002 22890 | 0.0508 | 0.1991 | 118.7* | Endrin aldehyde |
| 5.482 | 0.013 28861 | 5.937 | 0.019 233541 | 0.3684 | 1.3515 | 114.7* | gamma-Chlordane |
| 5.630 | 0.036 3656 | 6.080 | 0.023 17613 | 0.0488 | 0.1071 | 74.8* | alpha-Chlordane |
| 2.053 | 0.000 4860171 | 2.113 | 0.000 12472927 | 45.7885 | 44.5444 | 2.8 | Hexachlorobutadiene |
| 3.716 | -0.001 2811369 | 3.994 | -0.001 10233887 | 42.4635 | 43.4490 | 2.3 | Hexachlorobutadiene |
| 8.387 | -0.003 6719941 | 9.354 | -0.001 8680249 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.405 | -0.001 2881297 | 3.587 | -0.001 7867666 | 40.4528 | 41.8554 | 3.4 | Tetrachloro-m-xylene |
| 8.250 | -0.001 2792370 | 8.909 | 0.000 4460695 | 36.9897 | 37.1199 | 0.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 101.1 | 104.6 | 101.1~ | 115- 0 |
| Decachlorobiphenyl | 92.5 | 92.8 | 92.5~ | 115- 0 |

~ Indicates recovery outside QC Limits

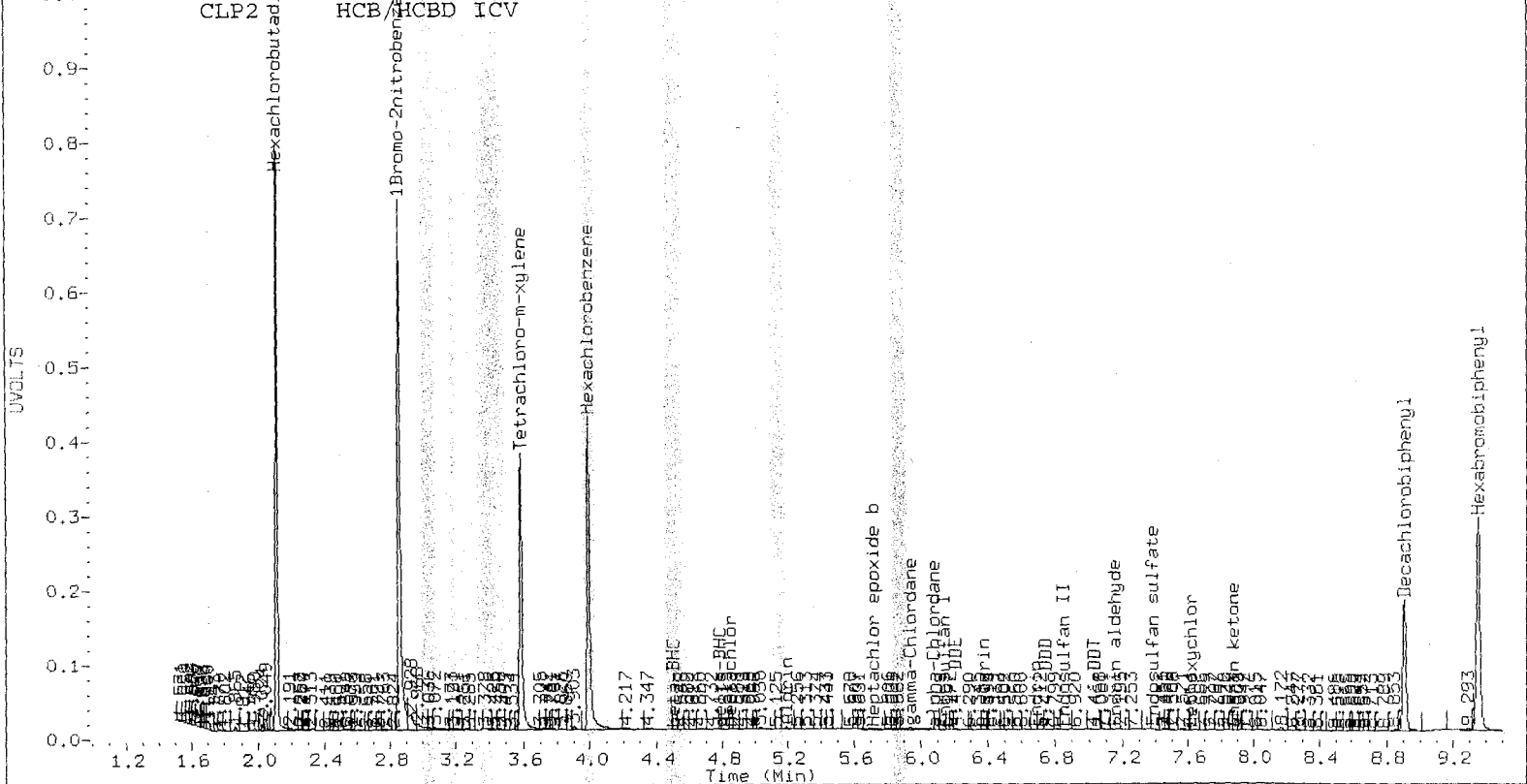
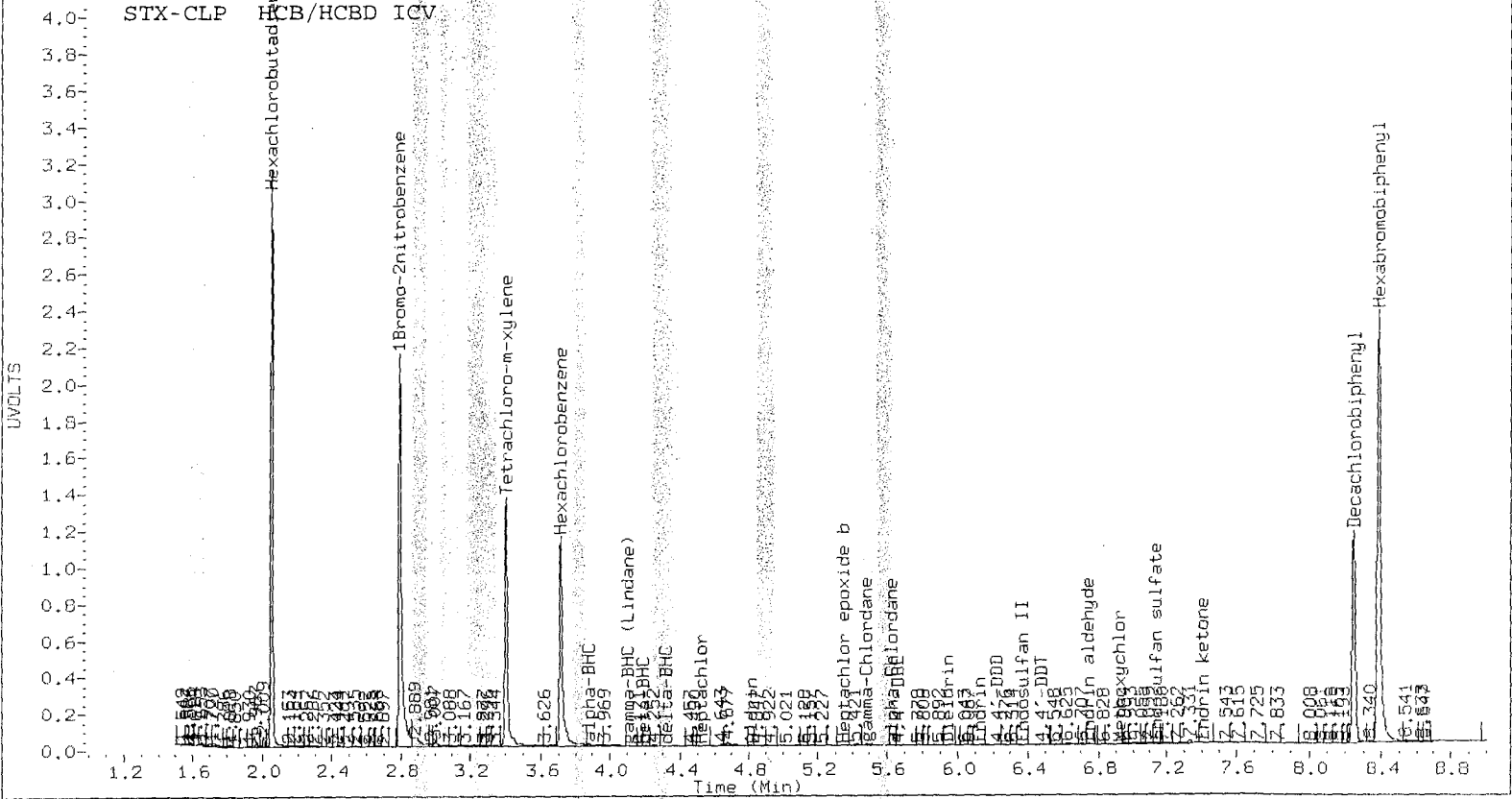
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4813617 | -0.6 |
| Hexabromobiphenyl | 6506091 | 6719941 | 3.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15147530 | -6.7 |
| Hexabromobiphenyl | 8472750 | 8680249 | 2.4 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | CLP2 Col | | | |
|---------|-------------|----|-------|---------------|----------|----|-------|---------------|
| | Peak# | RT | Shift | Height Amount | Peak# | RT | Shift | Height Amount |
| ===== | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/23/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A023.d ARI ID: WND ICV
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A023.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 19:32
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

SOP

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|---------------------|---------------------|------|----------------------|
| 1.721 | 0.002 1363 | 1.770 0.000 8294 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 4525140 | 2.855 0.000 16193143 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.251 | 0.000 3122271 | 5.643 0.000 7974775 | 53.6853 | 50.3865 | 6.3 | Oxychlorane |
| 5.340 | -0.001 13190248 | 5.909 0.000 27150924 | 322.0590 | 263.4879 | 20.0 | 2,4-DDE |
| 5.580 | 0.000 4049948 | 6.006 0.000 9335345 | 54.4447 | 53.7092 | 1.4 | trans-Nonachlor |
| 5.830 | 0.000 12579834 | 6.399 0.001 25636065 | 333.3169 | 264.1292 | 23.2 | 2,4-DDD |
| 6.069 | 0.000 15913707 | 6.685 0.000 28488322 | 320.0573 | 270.1829 | 16.9 | 2,4-DDT |
| 6.198 | 0.000 4446500 | 6.733 0.000 8786545 | 53.9970 | 50.1291 | 7.4 | cis-Nonachlor |
| 7.063 | 0.000 2722870 | 7.863 0.000 4878990 | 49.9166 | 46.3189 | 7.5 | Mirex |
| 8.390 | 0.001 6284187 | 9.356 0.000 8526437 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 2408999 | 3.588 0.000 7319008 | 35.9779 | 36.4224 | 1.2 | Tetrachloro-m-xylene |
| 8.251 | 0.000 2508707 | 8.908 0.000 4138276 | 35.5364 | 35.0581 | 1.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 89.9 | 91.1 | 89.9~ | 150- 0 |
| Decachlorobiphenyl | 88.8 | 87.6 | 87.6~ | 150- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

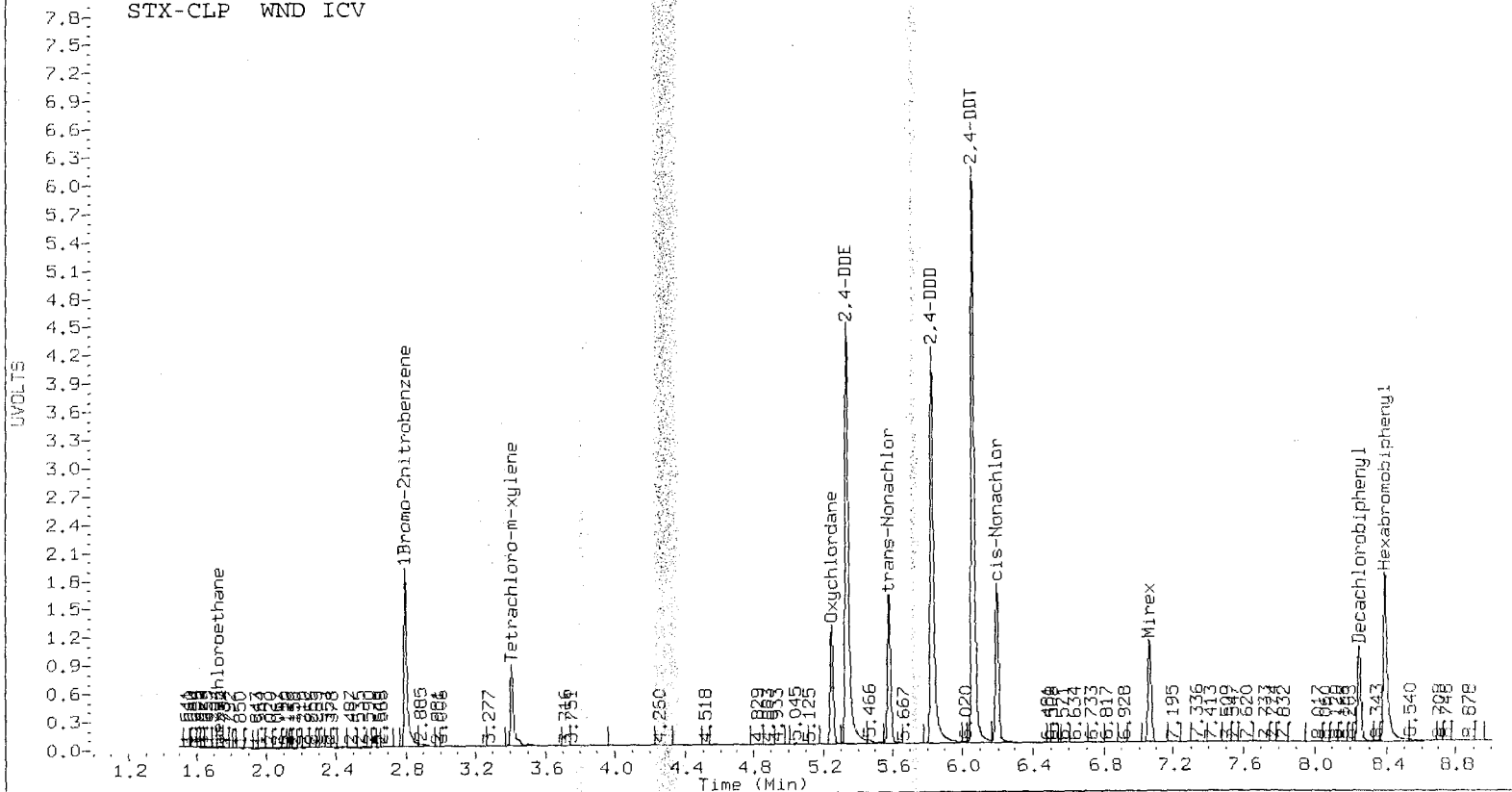
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4525140 | -6.5 |
| Hexabromobiphenyl | 6506091 | 6284187 | -3.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16193143 | -0.2 |
| Hexabromobiphenyl | 8472750 | 8526437 | 0.6 |

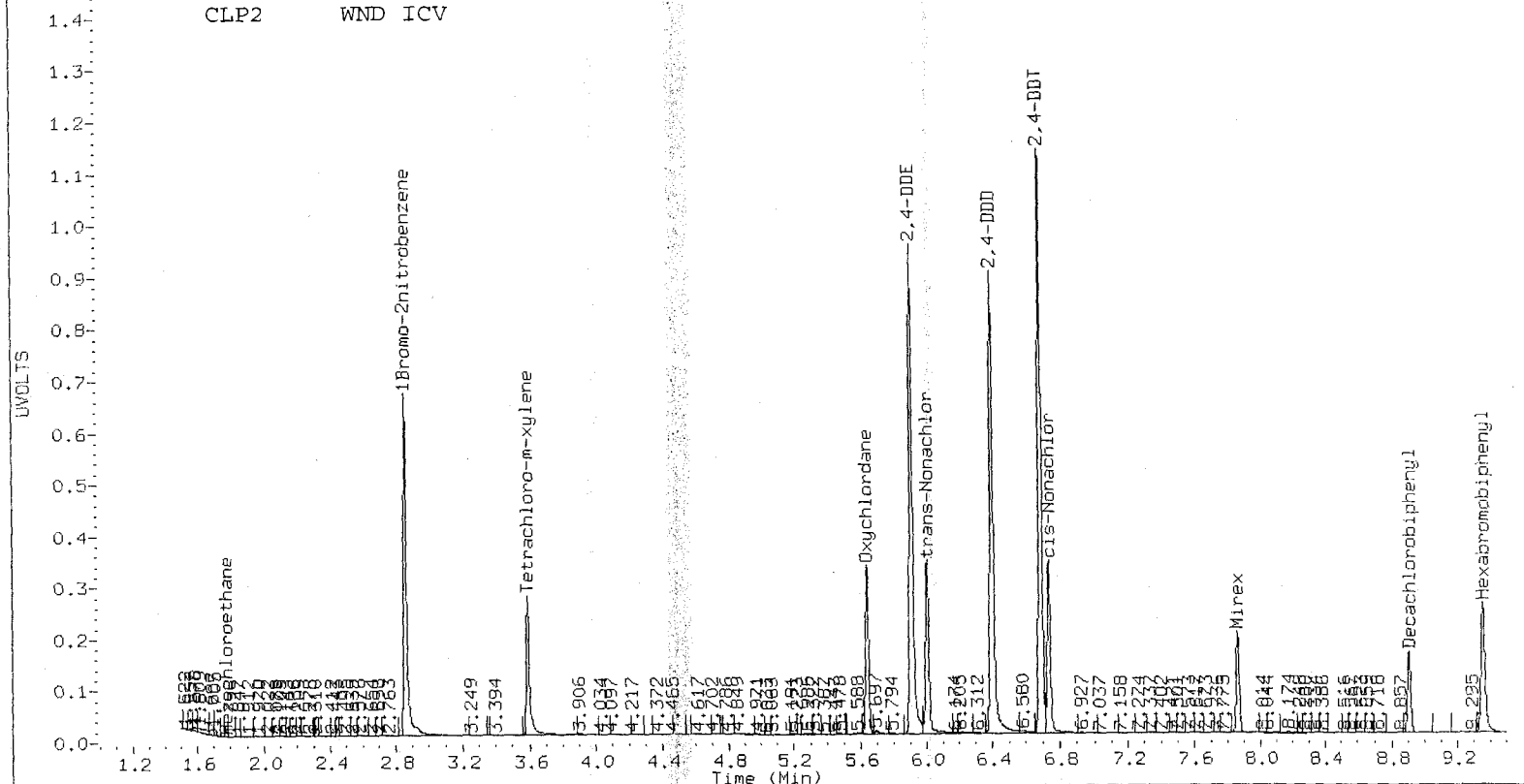
* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | CLP2 Col | | | | | |
|---------|-------------|----|-------|--------|----------|-------|----|-------|--------|--------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP WND ICV



CLP2 WND ICV



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/23/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/ical-1.b/0523A024.d ARI ID: 2/4-DDTS ICV
 Data file 2: /chem2/ecd6.i/20120523PEST.b/ical-2.b/0523A024.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 23-MAY-2012 19:50
 Compound Sublist: WND Report Date: 05/24/2012 10:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

50 ppb

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------------------------|-------------------|-------------------|------------|----------------------|
| 1.721 | 0.001 3034 | 1.742 -0.028 6815 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 2.796 | 0.000 4534400 | 2.855 0.000 15076973 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 5.258 | 0.007 1403 | 5.630 -0.014 5932 | 0.0231 | 0.0403 | NS 54.2* | Oxychlorthane |
| 5.340 | -0.001 2417190 | 5.909 -0.001 5870298 | 56.4624 | 61.1862 | 122.4% 8.0 | 2,4-DDE |
| 5.629 | 0.048 3931 | ---- | 0.0506 | 0.0000 | NS | trans-Nonachlor |
| 5.829 | -0.001 2209283 | 6.398 -0.001 5057267 | 56.0015 | 51.3668 | ✓ 8.6 | 2,4-DDD |
| 6.068 | -0.001 2847308 | 6.684 -0.001 5751501 | 54.7844 | 53.7742 | 1.9 | 2,4-DDT |
| 6.226 | 0.029 18076 | 6.745 0.011 80826 | 0.2100 | 0.4546 | NS 73.6* | cis-Nonachlor |
| ---- | ---- | 7.850 -0.013 3694 | 0.0000 | 0.0346 | --- | Mirex |
| 8.387 | -0.002 6568755 | 9.354 -0.002 8649007 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.405 | -0.001 5854 | 3.589 0.001 8032 | 0.0872 | 0.0429 | 68.1* | Tetrachloro-m-xylene |
| 8.251 | 0.001 4680 | 8.906 -0.002 3815 | 0.0634 | 0.0319 | NS 66.2* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.2 | 0.1 | 0.1~ | 150- 0 |
| Decachlorobiphenyl | 0.2 | 0.1 | 0.1~ | 150- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

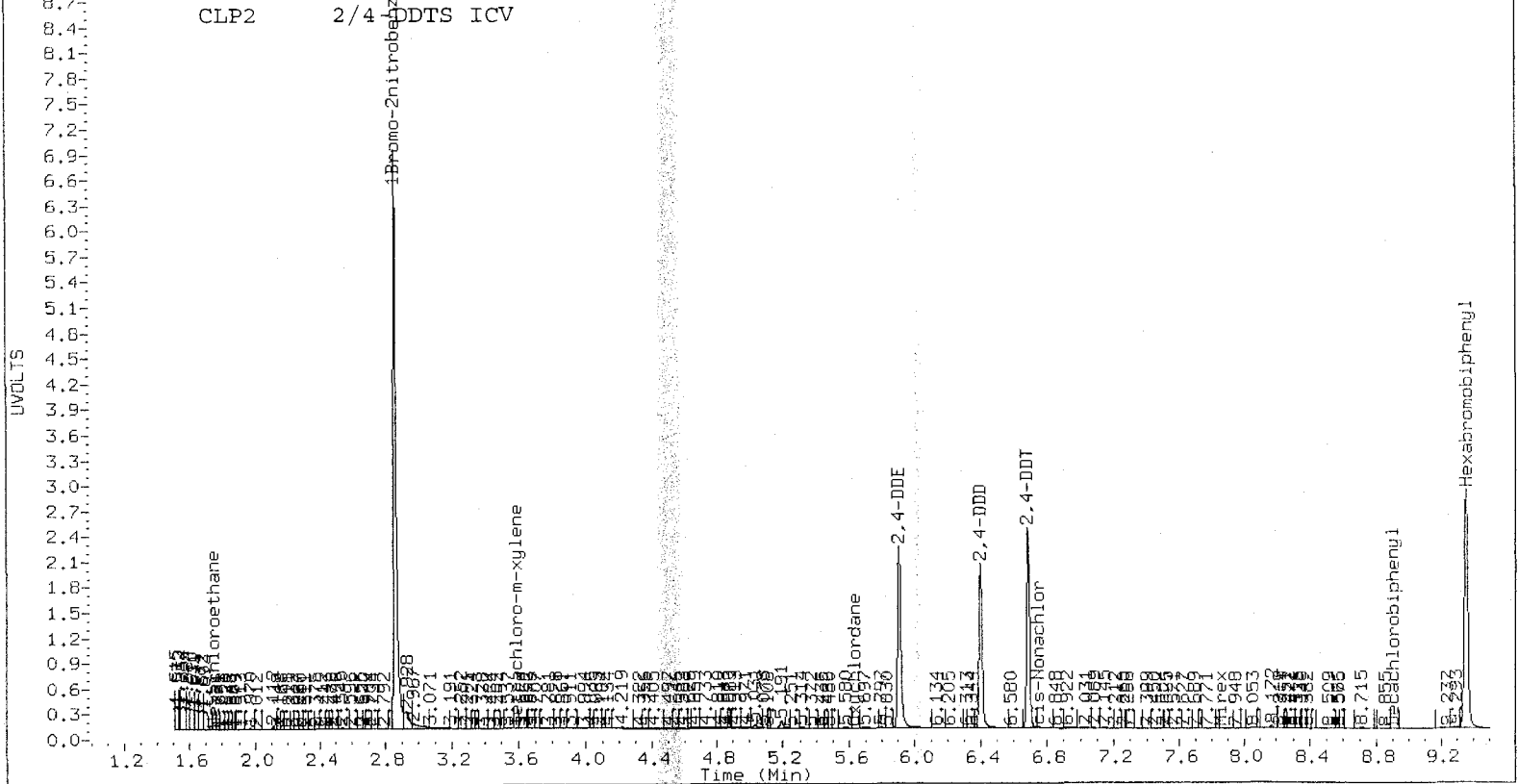
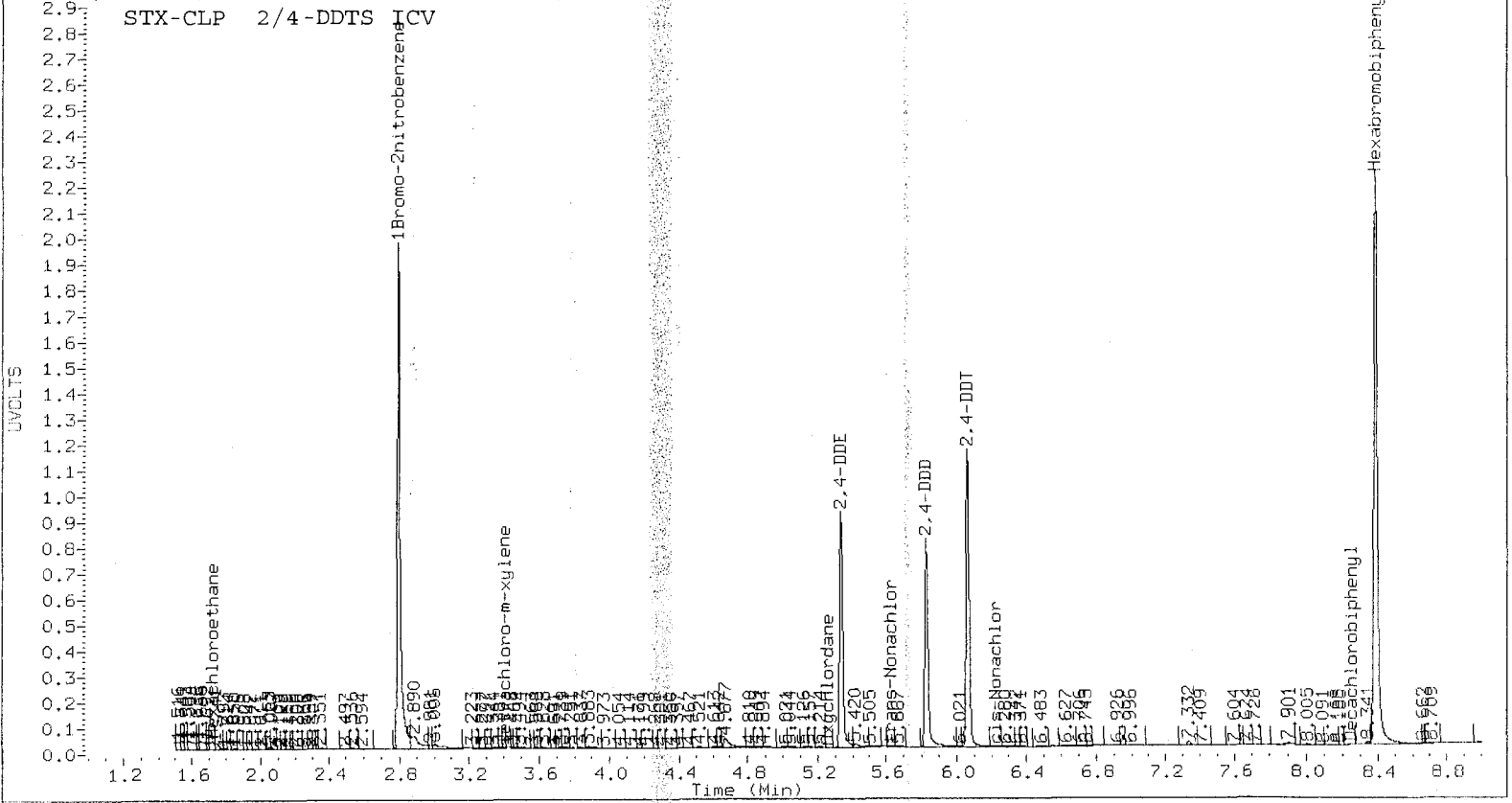
| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4534400 | -6.3 |
| Hexabromobiphenyl | 6506091 | 6568755 | 1.0 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15076973 | -7.1 |
| Hexabromobiphenyl | 8472750 | 8649007 | 2.1 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |





GC Initial Calibration Notes

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) Other

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 **ECD-8**

Curve Date(s): 5/25/2012 AR Internal Standard ID 1878-3 Expiration 8/1/2012

Endrin/DDT Breakdown <15%? **YES** / NO / NA ICV Exceeding ±20%? YES / **NO**
ICal Meets %RSD & r² Criteria **YES** / NO ICV Exceeding ±30%? YES / **NO**
Manual Integrations for ICal? **YES** / NO Linear Fits Used? YES / **NO**
Minimum Response S/N Met **YES** / NO Quadratic Fits Used? **YES** / NO
Calibration Points Dropped? YES / **NO**

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|--|---------------|-------------------|------------------|---------------|------------------|
| <u>INDA</u> | <u>1982-1</u> | <u>12/13/2012</u> | <u>INDA</u> | <u>1897-4</u> | <u>5/28/12</u> |
| <u>WND</u> | <u>1982-3</u> | <u>1/21/2013</u> | <u>HCB/HCBD</u> | <u>1886-2</u> | <u>5/28/12</u> |
| <u>AR</u> <u>5/29/12</u> Toxaphene | <u>---</u> | <u>---</u> | <u>WND</u> | <u>1935-2</u> | <u>5/28/12</u> |
| <u>Toxaphene</u> | <u>1924-5</u> | <u>5/28/12</u> | <u>op DDTs</u> | <u>1936-6</u> | <u>1/10/2013</u> |
| <u>DS</u> | <u>1878-2</u> | <u>5/28/12</u> | | | |
| <u>IB</u> | <u>1982-2</u> | <u>5/16/2013</u> | | | |
| <u>Techlardane</u> | <u>1924-4</u> | <u>5/28/12</u> | | | |

Detail problems, corrective actions and/or other pertinent information below:

Col A 4,4'-DDE quadratic - forced

Analyst: [Signature] Date: 5/29/12

Reviewer: [Signature] Date: 5/29/12

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A017.d
 Level 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A018.d
 Level 3: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A019.d
 Level 4: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A020.d
 Level 5: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A016.d
 Level 6: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A021.d
 Level 7: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A022.d

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 1 Hexachlorobutadiene | 2.91911 2.37127 | 2.57877 | 2.45230 | 2.36284 | 2.63356 | 2.37915 | 2.52814 | 8.016 |
| 3 Hexachlorobenzene | 1.77193 1.41606 | 1.55661 | 1.46839 | 1.42382 | 1.62132 | 1.42748 | 1.52652 | 8.709 |
| 4 alpha-BHC | 1.68968 1.71103 | 1.56515 | 1.57592 | 1.61859 | 1.77818 | 1.71551 | 1.66487 | 4.789 |
| 5 gamma-BHC (Lindane) | 1.47022 1.41085 | 1.34730 | 1.32848 | 1.33684 | 1.43315 | 1.40787 | 1.39067 | 3.881 |
| 6 beta-BHC | 0.77651 0.65116 | 0.72234 | 0.69329 | 0.66864 | 0.69014 | 0.65759 | 0.69424 | 6.287 |
| 7 delta-BHC | 1.22178 1.33375 | 1.12992 | 1.15981 | 1.15128 | 1.30197 | 1.29989 | 1.22834 | 6.812 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 8 Heptachlor | 1.32761 1.21489 | 1.28843 | 1.21128 | 1.25702 | 1.29836 | 1.26258 | 1.26574 | 3.390 |
| 37 Chlorthalonil | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 9 Aldrin | 1.62648 1.57079 | 1.49827 | 1.49178 | 1.51583 | 1.65007 | 1.58552 | 1.56268 | 4.019 |
| 10 Heptachlor Epoxide a | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 11 Heptachlor epoxide b | 1.47012 1.21837 | 1.35814 | 1.28484 | 1.24394 | 1.29933 | 1.24314 | 1.30256 | 6.689 |
| 12 gamma-Chlordane | 1.51441 1.40257 | 1.38765 | 1.34451 | 1.35105 | 1.41189 | 1.39728 | 1.40134 | 4.001 |
| 13 alpha-Chlordane | 1.49475 1.39345 | 1.35633 | 1.45951 | 1.32537 | 1.42514 | 1.39023 | 1.40640 | 4.154 |
| 14 Endosulfan I | 1.37667 1.21167 | 1.25039 | 1.31719 | 1.20131 | 1.27183 | 1.23083 | 1.26570 | 4.947 |
| 15 4,4'-DDE | 1.50933 1.50578 | 1.38793 | 1.47610 | 1.40342 | 1.59024 | 1.52213 | 1.48499 | 4.733 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 16 Dieldrin | 1.43928 1.28972 | 1.32499 | 1.32098 | 1.31646 | 1.40466 | 1.32487 | 1.34585 | 4.035 |
| 17 Endrin | 1.04979 0.88797 | 0.94291 | 0.93298 | 0.93240 | 1.01973 | 0.90546 | 0.95304 | 6.243 |
| 18 4,4'-DDD | 0.98821 0.80196 | 0.87431 | 0.86287 | 0.83813 | 0.89046 | 0.81283 | 0.86697 | 7.189 |
| 19 Endosulfan II | 1.12037 0.93519 | 1.00305 | 1.00097 | 1.01073 | 1.06304 | 0.97333 | 1.01524 | 5.947 |
| 20 4,4'-DDT | 0.47835 0.65072 | 0.45131 | 0.49254 | 0.51784 | 0.58345 | 0.61053 | 0.54068 | 13.826 |
| 21 Endrin aldehyde | 1.00531 0.77807 | 0.88064 | 0.84381 | 0.83054 | 0.87899 | 0.79253 | 0.85856 | 8.804 |
| 22 Endosulfan sulfate | 0.92238 0.83256 | 0.83797 | 0.82787 | 0.83077 | 0.88949 | 0.82951 | 0.85293 | 4.404 |
| 23 Methoxychlor | 0.27747 0.28145 | 0.26382 | 0.27164 | 0.27385 | 0.28796 | 0.27628 | 0.27607 | 2.755 |
| 24 Endrin ketone | 1.00700 0.87986 | 0.92070 | 0.89839 | 0.90757 | 0.94827 | 0.88657 | 0.92119 | 4.796 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------|--------------|--------------|--------------|--------------|-----------------|--------------|-----------------|---------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (3) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (4) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (5) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| 34 Aroclor-1268(1) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (2) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (3) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (4) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| (5) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ |
| 35 Toxaphene(1) | ++++ ++++ | ++++ ++++ | ++++ ++++ | ++++ ++++ | 0.04710 ++++ | ++++ ++++ | 0.04710 ++++ | 0.000 ++++ |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | 0.05196 | +++++ | | |
| | +++++ | | | | | | 0.05196 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | 0.02234 | +++++ | | |
| | +++++ | | | | | | 0.02234 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | 0.04374 | +++++ | | |
| | +++++ | | | | | | 0.04374 | 0.000 |
| (5) | +++++ | +++++ | +++++ | +++++ | 0.01686 | +++++ | | |
| | +++++ | | | | | | 0.01686 | 0.000 |
| 38 2,4-DDE | 0.94934 | 0.91486 | 0.84586 | 0.84646 | 0.89835 | 0.87334 | | |
| | 0.85928 | | | | | | 0.88393 | 4.385 |
| 39 2,4-DDD | 0.72470 | 0.66264 | 0.60525 | 0.59057 | 0.60008 | 0.56786 | | |
| | 0.56429 | | | | | | 0.61648 | 9.364 |
| 40 2,4-DDT | 0.56874 | 0.53458 | 0.51363 | 0.52252 | 0.54254 | 0.54935 | | |
| | 0.57306 | | | | | | 0.54349 | 4.085 |
| 41 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | | | | | | +++++ | +++++ |
| 42 Oxychlordane | 1.09556 | 1.05511 | 0.98585 | 0.99247 | 1.03484 | 1.02691 | | |
| | 1.01016 | | | | | | 1.02870 | 3.702 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 43 trans-Nonachlor | 1.29490 1.15133 | 1.24526 | 1.10026 | 1.15126 | 1.14730 | 1.14321 | 1.17622 | 5.786 |
| 44 cis-Nonachlor | 1.30313 1.30353 | 1.27356 | 1.22391 | 1.24925 | 1.28290 | 1.28582 | 1.27458 | 2.278 |
| 45 Mirex | 1.01475 0.78870 | 0.85912 | 0.77889 | 0.77323 | 0.76999 | 0.76987 | 0.82208 | 11.026 |
| 46 bis-(2-ethylhexyl) Phthalate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 47 Trifluralin | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 48 Dacthal | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 49 Oxadiazon | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 50 Kelthane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 51 Chlorpyrifos | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

Analytical Resources, Inc.
 INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
 Cal Date : 29-May-2012 08:15 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 53 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 54 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Tetrachloro-m-xylene | 2.06021 1.79176 | 1.90428 | 1.86022 | 1.85806 | 2.13050 | 1.85441 | 1.92278 | 6.451 |
| \$ 25 Decachlorobiphenyl | 1.67509 1.15910 | 1.43412 | 1.35395 | 1.25892 | 1.34592 | 1.18598 | 1.34473 | 13.031 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd8.i/20120525PEST.b/ical-2.b

ARI Job No.: DS Method: PEST0525B.m Instrument: ecd8.i Date: 25-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1434 | 0524A004.d | DS | | 1 | 4,4'-DDE, |
| 1453 | 0524A005.d | IB | | 1 | NO MANUAL INTEGRATION |
| 1512 | 0524A006.d | INDAE | | 1 | NO MANUAL INTEGRATION |
| 1531 | 0524A007.d | INDAA | | 1 | NO MANUAL INTEGRATION |
| 1550 | 0524A008.d | INDAB | | 1 | NO MANUAL INTEGRATION |
| 1609 | 0524A009.d | INDAC | | 1 | NO MANUAL INTEGRATION |
| 1628 | 0524A010.d | INDAD | | 1 | NO MANUAL INTEGRATION |
| 1647 | 0524A011.d | INDAF | | 1 | NO MANUAL INTEGRATION |
| 1706 | 0524A012.d | IDNAG | | 1 | NO MANUAL INTEGRATION |
| 1725 | 0524A013.d | INDA ICV | | 1 | NO MANUAL INTEGRATION |
| 1743 | 0524A014.d | HCB/HCBD ICV | | 1 | NO MANUAL INTEGRATION |
| 1802 | 0524A015.d | TOXAPH 2500 | | 1 | NO MANUAL INTEGRATION |
| 1821 | 0524A016.d | WNDE | | 1 | NO MANUAL INTEGRATION |
| 1840 | 0524A017.d | WNDA | | 1 | NO MANUAL INTEGRATION |
| 1859 | 0524A018.d | WNDB | | 1 | NO MANUAL INTEGRATION |
| 1918 | 0524A019.d | WNDC | | 1 | NO MANUAL INTEGRATION |
| 1937 | 0524A020.d | WNDD | | 1 | NO MANUAL INTEGRATION |
| 1956 | 0524A021.d | WNDF | | 1 | NO MANUAL INTEGRATION |
| 2014 | 0524A022.d | WNDG | | 1 | NO MANUAL INTEGRATION |
| 2033 | 0524A023.d | WND ICV | | 1 | NO MANUAL INTEGRATION |
| 2052 | 0524A024.d | OPDDTS ICV | | 1 | NO MANUAL INTEGRATION |

052:01288

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd8.i/20120525PEST.b/ical-2.b

| Time | Filename | LabID | ClientID | DF | Manually Integrated Compounds |
|------|------------|-------|----------|----|-------------------------------|
| 2111 | 0524A025.d | | | 1 | NO MANUAL INTEGRATION |
| 2130 | 0524A026.d | | | 1 | NO MANUAL INTEGRATION |

4452:01289


Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0524A006 | 0524A007 | 0524A008 | 0524A009 | 0524A010 | 0524A011 | 0524A012 |
| INJ. DATE: | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 |
| INJ. TIME: | 15:12 | 15:31 | 15:50 | 16:09 | 16:28 | 16:47 | 17:06 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | 2.035 | 2.035 | 2.037 | 2.037 | 2.036 | 2.036 | 2.037 | 2.037 | 1.987-2.087 | 2.036 | 0.001 |
| * 52 1Bromo-2nitrobenzene | 3.295 | 3.295 | 3.295 | 3.295 | 3.295 | 3.296 | 3.296 | 3.296 | 3.246-3.346 | 3.295 | 0.000 |
| * 55 Hexabromobiphenyl | 10.431 | 10.432 | 10.433 | 10.433 | 10.433 | 10.433 | 10.432 | 10.433 | 10.383-10.483 | 10.432 | 0.001 |
| \$ 2 Tetrachloro-m-xylene | 4.297 | 4.298 | 4.298 | 4.298 | 4.298 | 4.299 | 4.299 | 4.299 | 4.249-4.349 | 4.298 | 0.001 |
| 3 Hexachlorobenzene | 4.790 | 4.791 | 4.792 | 4.791 | 4.791 | 4.791 | 4.791 | 4.791 | 4.741-4.841 | 4.791 | 0.001 |
| 4 alpha-BHC | 4.928 | 4.928 | 4.929 | 4.929 | 4.928 | 4.929 | 4.929 | 4.929 | 4.879-4.979 | 4.929 | 0.001 |
| 5 gamma-BHC (Lindane) | 5.281 | 5.282 | 5.283 | 5.283 | 5.282 | 5.283 | 5.283 | 5.283 | 5.233-5.333 | 5.282 | 0.001 |
| 6 beta-BHC | 5.366 | 5.367 | 5.368 | 5.368 | 5.367 | 5.367 | 5.366 | 5.366 | 5.316-5.416 | 5.367 | 0.001 |
| 7 delta-BHC | 5.652 | 5.654 | 5.655 | 5.654 | 5.654 | 5.654 | 5.653 | 5.653 | 5.603-5.703 | 5.653 | 0.001 |
| 8 Heptachlor | 5.712 | 5.713 | 5.714 | 5.713 | 5.713 | 5.714 | 5.713 | 5.713 | 5.663-5.763 | 5.713 | 0.001 |
| 37 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.588 | 14.538-14.638 | +++++ | +++++ |
| 9 Aldrin | 6.027 | 6.028 | 6.029 | 6.029 | 6.028 | 6.029 | 6.028 | 6.028 | 5.978-6.078 | 6.028 | 0.001 |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.680 | 12.630-12.730 | +++++ | +++++ |
| 11 Heptachlor epoxide b | 6.566 | 6.567 | 6.567 | 6.567 | 6.567 | 6.568 | 6.567 | 6.567 | 6.517-6.617 | 6.567 | 0.001 |
| 12 gamma-Chlordane | 6.745 | 6.746 | 6.746 | 6.746 | 6.745 | 6.747 | 6.746 | 6.746 | 6.696-6.796 | 6.746 | 0.001 |
| 13 alpha-Chlordane | 6.880 | 6.881 | 6.882 | 6.882 | 6.881 | 6.882 | 6.882 | 6.882 | 6.832-6.932 | 6.881 | 0.001 |
| 14 Endosulfan I | 6.941 | 6.942 | 6.942 | 6.942 | 6.942 | 6.943 | 6.942 | 6.942 | 6.892-6.992 | 6.942 | 0.001 |

Reviewer 1 _____
Reviewer 2 _____

AP Date: 5/29/2012
 Date: 5/29/12

0052:01290

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 15 4,4'-DDE | 7.024 | 7.028 | 7.028 | 7.027 | 7.026 | 7.025 | 7.023 | 7.023 | 6.973-7.073 | 7.026 | 0.002 |
| 16 Dieldrin | 7.197 | 7.199 | 7.199 | 7.199 | 7.198 | 7.200 | 7.199 | 7.199 | 7.149-7.249 | 7.199 | 0.001 |
| 17 Endrin | 7.488 | 7.489 | 7.490 | 7.490 | 7.489 | 7.490 | 7.490 | 7.490 | 7.440-7.540 | 7.489 | 0.001 |
| 18 4,4'-DDD | 7.566 | 7.569 | 7.569 | 7.569 | 7.568 | 7.566 | 7.564 | 7.564 | 7.514-7.614 | 7.567 | 0.002 |
| 19 Endosulfan II | 7.684 | 7.686 | 7.686 | 7.686 | 7.686 | 7.686 | 7.686 | 7.686 | 7.636-7.736 | 7.686 | 0.001 |
| 20 4,4'-DDT | 7.858 | 7.861 | 7.861 | 7.861 | 7.860 | 7.859 | 7.858 | 7.858 | 7.808-7.908 | 7.860 | 0.001 |
| 21 Endrin aldehyde | 7.997 | 7.999 | 7.999 | 7.999 | 7.998 | 7.998 | 7.999 | 7.999 | 7.949-8.049 | 7.998 | 0.001 |
| 22 Endosulfan sulfate | 8.257 | 8.259 | 8.259 | 8.259 | 8.258 | 8.259 | 8.258 | 8.258 | 8.208-8.308 | 8.258 | 0.001 |
| 23 Methoxychlor | 8.487 | 8.489 | 8.489 | 8.489 | 8.489 | 8.489 | 8.487 | 8.487 | 8.437-8.537 | 8.488 | 0.001 |
| 24 Endrin ketone | 8.779 | 8.781 | 8.780 | 8.781 | 8.780 | 8.781 | 8.780 | 8.780 | 8.730-8.830 | 8.780 | 0.000 |
| \$ 25 Decachlorobiphenyl | 9.921 | 9.922 | 9.922 | 9.922 | 9.922 | 9.922 | 9.921 | 9.921 | 9.871-9.971 | 9.922 | 0.001 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.619 | 5.569-5.669 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.588 | 4.538-4.638 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.174 | 5.124-5.224 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.749 | 5.699-5.799 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.914 | 5.864-5.964 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.552 | 6.502-6.602 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.335 | 7.285-7.385 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.526 | 7.476-7.576 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.793 | 8.743-8.843 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.759 | 7.709-7.809 | ++++ | ++++ |
| 38 2,4-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.736 | 6.686-6.786 | ++++ | ++++ |

US2:01291

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 39 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.215 | 7.165-7.265 | +++++ | +++++ |
| 40 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.503 | 7.453-7.553 | +++++ | +++++ |
| 41 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.752 | 1.702-1.802 | +++++ | +++++ |
| 42 Oxychlorane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.482 | 6.432-6.532 | +++++ | +++++ |
| 43 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.832 | 6.782-6.882 | +++++ | +++++ |
| 44 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.557 | 7.507-7.607 | +++++ | +++++ |
| 45 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.759 | 8.709-8.809 | +++++ | +++++ |
| 46 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.449-21.549 | +++++ | +++++ |
| 47 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.821-4.921 | +++++ | +++++ |
| 48 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.590-6.690 | +++++ | +++++ |
| 49 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.065-8.165 | +++++ | +++++ |
| 50 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.236-11.336 | +++++ | +++++ |
| 51 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.477-6.577 | +++++ | +++++ |
| 53 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.292-6.392 | +++++ | +++++ |
| 54 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.791-6.891 | +++++ | +++++ |

0052:01292

Report Date : 29-May-2012 08:21

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| | | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
| FILENAME: | 0524A016 | 0524A017 | 0524A018 | 0524A019 | 0524A020 | 0524A021 | 0524A022 |
| INJ. DATE: | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 |
| INJ. TIME: | 18:21 | 18:40 | 18:59 | 19:18 | 19:37 | 19:56 | 20:14 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.037 | 1.987-2.087 | +++++ | +++++ |
| * 52 1Bromo-2nitrobenzene | 3.295 | 3.296 | 3.295 | 3.295 | 3.297 | 3.297 | 3.296 | 3.296 | 3.246-3.346 | 3.296 | 0.001 |
| * 55 Hexabromobiphenyl | 10.431 | 10.430 | 10.431 | 10.431 | 10.433 | 10.435 | 10.433 | 10.433 | 10.383-10.483 | 10.432 | 0.002 |
| \$ 2 Tetrachloro-m-xylene | 4.297 | 4.298 | 4.298 | 4.298 | 4.299 | 4.299 | 4.300 | 4.299 | 4.249-4.349 | 4.298 | 0.001 |
| 3 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.791 | 4.741-4.841 | +++++ | +++++ |
| 4 alpha-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.929 | 4.879-4.979 | +++++ | +++++ |
| 5 gamma-BHC (Lindane) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.283 | 5.233-5.333 | +++++ | +++++ |
| 6 beta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.366 | 5.316-5.416 | +++++ | +++++ |
| 7 delta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.653 | 5.603-5.703 | +++++ | +++++ |
| 8 Heptachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.713 | 5.663-5.763 | +++++ | +++++ |
| 37 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.588 | 14.538-14.638 | +++++ | +++++ |
| 9 Aldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.028 | 5.978-6.078 | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.680 | 12.630-12.730 | +++++ | +++++ |
| 11 Heptachlor epoxide b | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.567 | 6.517-6.617 | +++++ | +++++ |
| 12 gamma-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.746 | 6.696-6.796 | +++++ | +++++ |
| 13 alpha-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.882 | 6.832-6.932 | +++++ | +++++ |
| 14 Endosulfan I | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.942 | 6.892-6.992 | +++++ | +++++ |

Reviewer 1 _____
Reviewer 2 _____

AR
Date: 5/29/2012
Date: 5/29/12

052 : 01293

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 15 4,4'-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.023 | 6.973-7.073 | ++++ | ++++ |
| 16 Dieldrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.199 | 7.149-7.249 | ++++ | ++++ |
| 17 Endrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.490 | 7.440-7.540 | ++++ | ++++ |
| 18 4,4'-DDD | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.564 | 7.514-7.614 | ++++ | ++++ |
| 19 Endosulfan II | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.686 | 7.636-7.736 | ++++ | ++++ |
| 20 4,4'-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.858 | 7.808-7.908 | ++++ | ++++ |
| 21 Endrin aldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.999 | 7.949-8.049 | ++++ | ++++ |
| 22 Endosulfan sulfate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.258 | 8.208-8.308 | ++++ | ++++ |
| 23 Methoxychlor | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.487 | 8.437-8.537 | ++++ | ++++ |
| 24 Endrin ketone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.780 | 8.730-8.830 | ++++ | ++++ |
| 25 Decachlorobiphenyl | 9.921 | 9.921 | 9.922 | 9.922 | 9.924 | 9.925 | 9.923 | 9.921 | 9.871-9.971 | 9.922 | 0.001 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.619 | 5.569-5.669 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.588 | 4.538-4.638 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.174 | 5.124-5.224 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.749 | 5.699-5.799 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.914 | 5.864-5.964 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.552 | 6.502-6.602 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.335 | 7.285-7.385 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.526 | 7.476-7.576 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.793 | 8.743-8.843 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.759 | 7.709-7.809 | ++++ | ++++ |
| 38 2,4-DDE | 6.735 | 6.735 | 6.736 | 6.735 | 6.737 | 6.738 | 6.736 | 6.736 | 6.686-6.786 | 6.736 | 0.001 |

052:01291

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525B.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-2.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 39 2,4-DDD | 7.215 | 7.216 | 7.216 | 7.216 | 7.218 | 7.217 | 7.215 | 7.215 | 7.165-7.265 | 7.216 | 0.001 |
| 40 2,4-DDT | 7.501 | 7.501 | 7.502 | 7.501 | 7.504 | 7.504 | 7.503 | 7.503 | 7.453-7.553 | 7.502 | 0.001 |
| 41 Hexachloroethane | 1.747 | 1.751 | 1.749 | 1.751 | 1.749 | 1.754 | 1.752 | 1.752 | 1.702-1.802 | 1.750 | 0.002 |
| 42 Oxychlordane | 6.480 | 6.479 | 6.480 | 6.479 | 6.482 | 6.483 | 6.482 | 6.482 | 6.432-6.532 | 6.481 | 0.001 |
| 43 trans-Nonachlor | 6.829 | 6.829 | 6.830 | 6.829 | 6.831 | 6.833 | 6.832 | 6.832 | 6.782-6.882 | 6.830 | 0.001 |
| 44 cis-Nonachlor | 7.555 | 7.554 | 7.555 | 7.554 | 7.557 | 7.558 | 7.557 | 7.557 | 7.507-7.607 | 7.556 | 0.001 |
| 45 Mirex | 8.758 | 8.757 | 8.758 | 8.758 | 8.760 | 8.761 | 8.759 | 8.759 | 8.709-8.809 | 8.759 | 0.002 |
| 46 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.449-21.549 | +++++ | +++++ |
| 47 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.821-4.921 | +++++ | +++++ |
| 48 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.590-6.690 | +++++ | +++++ |
| 49 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.065-8.165 | +++++ | +++++ |
| 50 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.236-11.336 | +++++ | +++++ |
| 51 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.477-6.577 | +++++ | +++++ |
| 53 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.292-6.392 | +++++ | +++++ |
| 54 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.791-6.891 | +++++ | +++++ |

M52:01295

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A017.d
 Level 2: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A018.d
 Level 3: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A019.d
 Level 4: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A020.d
 Level 5: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A016.d
 Level 6: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A021.d
 Level 7: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A022.d

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 1 Hexachlorobutadiene | 2.34878 2.64564 | 2.22828 | 2.72236 | 2.25813 | 2.52789 | 2.35305 | 2.44059 | 7.908 |
| 3 Hexachlorobenzene | 1.51117 1.43647 | 1.37478 | 1.32049 | 1.33270 | 1.48020 | 1.36080 | 1.40237 | 5.297 |
| 4 alpha-BHC | 1.33331 1.84513 | 1.30654 | 1.35607 | 1.48914 | 1.69579 | 1.72746 | 1.53620 | 14.214 |
| 5 gamma-BHC (Lindane) | 1.18744 1.44505 | 1.12664 | 1.09843 | 1.17937 | 1.34846 | 1.35528 | 1.24867 | 10.640 |
| 6 beta-BHC | 0.73035 0.56099 | 0.65030 | 0.52207 | 0.57279 | 0.55449 | 0.54845 | 0.59135 | 12.361 |
| 7 delta-BHC | 1.10318 1.52269 | 1.05349 | 1.03892 | 1.13704 | 1.32126 | 1.37226 | 1.22126 | 15.176 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|-----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 8 Heptachlor | 1.16702 1.37270 | 1.12084 | 1.11214 | 1.19922 | 1.33371 | 1.31416 | 1.23140 | 8.703 |
| 9 Aldrin | 1.34812 1.68526 | 1.30074 | 1.32391 | 1.41685 | 1.57726 | 1.60024 | 1.46462 | 10.514 |
| 38 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 11 Heptachlor epoxide b | 1.32784 1.40643 | 1.23103 | 1.22111 | 1.27111 | 1.36780 | 1.35610 | 1.31163 | 5.455 |
| 12 gamma-Chlordane | 1.30541 1.45247 | 1.22266 | 1.20343 | 1.25727 | 1.38157 | 1.36690 | 1.31282 | 6.981 |
| 13 alpha-Chlordane | 1.29118 1.48530 | 1.23307 | 1.34518 | 1.30036 | 1.42301 | 1.39638 | 1.35350 | 6.421 |
| 14 Endosulfan I | 2.01649 1.80460 | 2.28009 | 2.10309 | 2.12921 | 2.17621 | 1.95338 | 2.06615 | 7.571 |
| 15 4,4'-DDE | 0.71917 1.47844 | 0.71540 | 0.84000 | 0.86831 | 1.17420 | 1.25640 | 1.00742 | 29.430 <- |

Report Date : 29-May-2012 09:08

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 16 Dieldrin | 1.28561 1.50374 | 1.30371 | 1.31936 | 1.40713 | 1.53463 | 1.45964 | 1.40197 | 7.211 |
| 17 Endrin | 0.81805 0.98350 | 0.78017 | 0.78481 | 0.82808 | 0.97751 | 0.91175 | 0.86913 | 10.070 |
| 18 4,4'-DDD | 0.85445 0.72561 | 0.73465 | 0.63328 | 0.62739 | 0.71596 | 0.66127 | 0.70752 | 11.068 |
| 19 Endosulfan II | 0.90660 0.94946 | 0.84697 | 0.81824 | 0.85598 | 0.97883 | 0.90018 | 0.89375 | 6.438 |
| 20 4,4'-DDT | 0.38951 0.62298 | 0.40328 | 0.39039 | 0.44897 | 0.54873 | 0.55365 | 0.47965 | 19.716 |
| 21 Endrin aldehyde | 0.74496 0.75328 | 0.68383 | 0.65992 | 0.67296 | 0.75668 | 0.70730 | 0.71127 | 5.692 |
| 22 Methoxychlor | 0.26067 0.31703 | 0.24817 | 0.25211 | 0.25583 | 0.28711 | 0.28482 | 0.27225 | 9.211 |
| 23 Endosulfan sulfate | 0.74751 0.82559 | 0.70039 | 0.69434 | 0.69404 | 0.80702 | 0.76194 | 0.74726 | 7.279 |
| 24 Endrin ketone | 1.13707 0.90396 | 0.96228 | 0.87888 | 0.84297 | 0.92050 | 0.85841 | 0.92915 | 10.762 |

UU52:01298

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 35 Toxaphene (1) | +++++ | +++++ | +++++ | +++++ | 0.04017 | +++++ | 0.04017 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | 0.02802 | +++++ | 0.02802 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | 0.02539 | +++++ | 0.02539 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | 0.04226 | +++++ | 0.04226 | 0.000 |
| (5) | +++++ | +++++ | +++++ | +++++ | 0.03298 | +++++ | 0.03298 | 0.000 |
| (6) | +++++ | +++++ | +++++ | +++++ | 0.02391 | +++++ | 0.02391 | 0.000 |
| 39 2,4-DDE | 0.64988 0.69400 | 0.61961 | 0.57249 | 0.59082 | 0.66134 | 0.66488 | 0.63614 | 6.845 |
| 40 2,4-DDD | 0.49881 0.46367 | 0.48537 | 0.41561 | 0.41210 | 0.45904 | 0.44475 | 0.45419 | 7.205 |
| 41 2,4-DDT | 0.46557 0.51216 | 0.44832 | 0.40077 | 0.42378 | 0.46850 | 0.47784 | 0.45670 | 8.007 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 43 Oxychlorane | 0.80130 0.89108 | 0.77864 | 0.72384 | 0.76824 | 0.82434 | 0.85339 | 0.80583 | 6.940 |
| 44 trans-Nonachlor | 0.94111 1.02639 | 0.87461 | 0.78610 | 0.85154 | 0.93144 | 0.97849 | 0.91281 | 8.904 |
| 45 cis-Nonachlor | 0.97468 1.22741 | 0.94956 | 0.89805 | 0.99130 | 1.07707 | 1.16703 | 1.04073 | 11.610 |
| 46 Mirex | 0.74177 0.61132 | 0.64061 | 0.56842 | 0.57644 | 0.59676 | 0.58873 | 0.61772 | 9.660 |
| 47 bis-(2-ethylhexyl) Phthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

Analytical Resources, Inc.

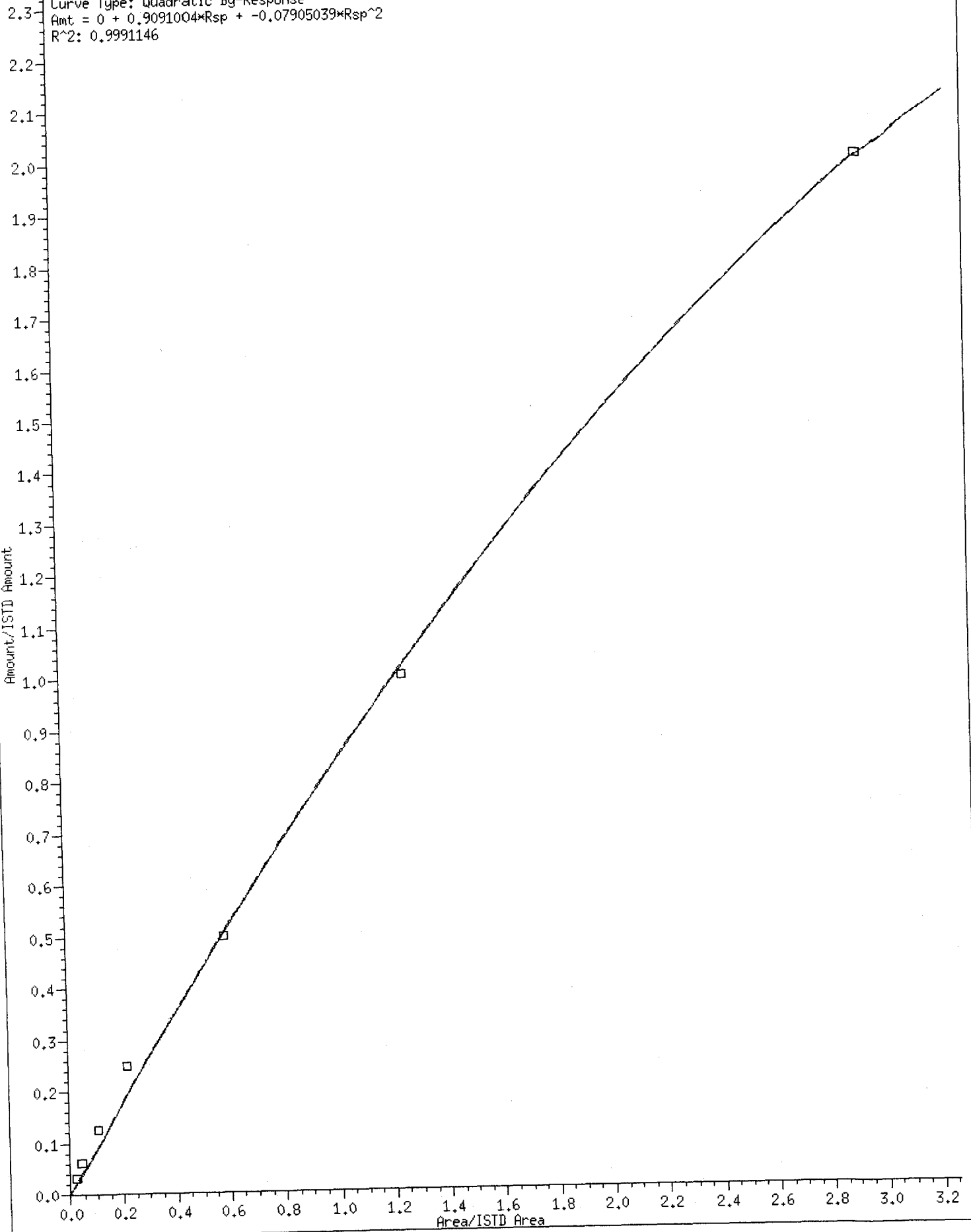
INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|---------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Tetrachloro-m-xylene | 1.15602 1.18849 | 1.07347 | 1.05521 | 1.08545 | 1.22492 | 1.14344 | 1.13243 | 5.587 |
| \$ 25 Decachlorobiphenyl | 1.56359 1.34970 | 1.35337 | 1.26811 | 1.24542 | 1.40361 | 1.27810 | 1.35170 | 8.065 |

Curve Type: Quadratic By-Response
Amt = 0 + 0.9091004*Rsp + -0.07905039*Rsp^2
R^2: 0.9991146

Amount/ISTD Amount



Area/ISTD Area

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

Calibration File Names:

Level 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A017.d
 Level 2: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A018.d
 Level 3: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A019.d
 Level 4: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A020.d
 Level 5: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A016.d
 Level 6: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A021.d
 Level 7: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A022.d

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|-----------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 | | | | | | | | | |
| | Level 7 | | | | | | | | | |
| 1 Hexachlorobutadiene | 2.34878 2.64564 | 2.22828 | 2.72236 | 2.25813 | 2.52789 | 2.35305 | AVRG | 2.44059 | | 7.90839 |
| 3 Hexachlorobenzene | 1.51117 1.43647 | 1.37478 | 1.32049 | 1.33270 | 1.48020 | 1.36080 | AVRG | 1.40237 | | 5.29687 |
| 4 alpha-BHC | 1.33331 1.84513 | 1.30654 | 1.35607 | 1.48914 | 1.69579 | 1.72746 | AVRG | 1.53620 | | 14.21367 |
| 5 gamma-BHC (Lindane) | 1.18744 1.44505 | 1.12664 | 1.09843 | 1.17937 | 1.34846 | 1.35528 | AVRG | 1.24867 | | 10.63983 |

05250100

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|-------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|-----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 Level 7 | | | | | | | | | |
| 6 beta-BHC | 0.73035 0.56099 | 0.65030 | 0.52207 | 0.57279 | 0.55449 | 0.54845 | AVRG | | 0.59135 | 12.36122 |
| 7 delta-BHC | 1.10318 1.52269 | 1.05349 | 1.03892 | 1.13704 | 1.32126 | 1.37226 | AVRG | | 1.22126 | 15.17567 |
| 8 Heptachlor | 1.16702 1.37270 | 1.12084 | 1.11214 | 1.19922 | 1.33371 | 1.31416 | AVRG | | 1.23140 | 8.70286 |
| 9 Aldrin | 1.34812 1.68526 | 1.30074 | 1.32391 | 1.41685 | 1.57726 | 1.60024 | AVRG | | 1.46462 | 10.51374 |
| 38 Chlorthalonil | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 10 Heptachlor Epoxide a | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 11 Heptachlor epoxide b | 1.32784 1.40643 | 1.23103 | 1.22111 | 1.27111 | 1.36780 | 1.35610 | AVRG | | 1.31163 | 5.45471 |

MAY 29 09:07

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | | %RSD or R ² |
|--------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|---------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 80 Level 7 | | | | | | | | | | |
| 12 gamma-Chlordane | 1.30541 1.45247 | 1.22266 | 1.20343 | 1.25727 | 1.38157 | 1.36690 | AVRG | | 1.31282 | | 6.98053 |
| 13 alpha-Chlordane | 1.29118 1.48530 | 1.23307 | 1.34518 | 1.30036 | 1.42301 | 1.39638 | AVRG | | 1.35350 | | 6.42129 |
| 14 Endosulfan I | 2.01649 1.80460 | 2.28009 | 2.10309 | 2.12921 | 2.17621 | 1.95338 | AVRG | | 2.06615 | | 7.57083 |
| 15 4,4'-DDE | 20007 2596728 | 39965 | 91795 | 186729 | 491054 | 1122077 | QUAD | 0.000e+00 | 0.90910 | -0.07905 | 0.99911 |
| 16 Dieldrin | 1.28561 1.50374 | 1.30371 | 1.31936 | 1.40713 | 1.53463 | 1.45964 | AVRG | | 1.40197 | | 7.21136 |
| 17 Endrin | 0.81805 0.98350 | 0.78017 | 0.78481 | 0.82808 | 0.97751 | 0.91175 | AVRG | | 0.86913 | | 10.07001 |
| 18 4,4'-DDD | 0.85445 0.72561 | 0.73465 | 0.63328 | 0.62739 | 0.71596 | 0.66127 | AVRG | | 0.70752 | | 11.06831 |

US2:01305

Report Date : 29-May-2012 09:10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|-----------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 Level 7 | | | | | | | | | |
| 19 Endosulfan II | 0.90660 0.94946 | 0.84697 | 0.81824 | 0.85598 | 0.97883 | 0.90018 | AVRG | 0.89375 | | 6.43801 |
| 20 4,4'-DDT | 0.38951 0.62298 | 0.40328 | 0.39039 | 0.44897 | 0.54873 | 0.55365 | AVRG | 0.47965 | | 19.71634 |
| 21 Endrin aldehyde | 0.74496 0.75328 | 0.68383 | 0.65992 | 0.67296 | 0.75668 | 0.70730 | AVRG | 0.71127 | | 5.69218 |
| 22 Methoxychlor | 0.26067 0.31703 | 0.24817 | 0.25211 | 0.25583 | 0.28711 | 0.28482 | AVRG | 0.27225 | | 9.21119 |
| 23 Endosulfan sulfate | 0.74751 0.82559 | 0.70039 | 0.69434 | 0.69404 | 0.80702 | 0.76194 | AVRG | 0.74726 | | 7.27914 |
| 24 Endrin ketone | 1.13707 0.90396 | 0.96228 | 0.87888 | 0.84297 | 0.92050 | 0.85841 | AVRG | 0.92915 | | 10.76204 |
| 26 Aroclor-1016(1) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | 0.000e+00 | | 0.000e+00 |

4452:01306

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|-----------------|---------------|---------|---------|---------|---------|---------|-------|--------------|-----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 Level 7 | | | | | | | | | |
| (4) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| (5) | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 35 Toxaphene(1) | ++++ ++++ | ++++ | ++++ | ++++ | 0.04017 | ++++ | AVRG | | 0.04017 | 0.000e+00 |
| (2) | ++++ ++++ | ++++ | ++++ | ++++ | 0.02802 | ++++ | AVRG | | 0.02802 | 0.000e+00 |
| (3) | ++++ ++++ | ++++ | ++++ | ++++ | 0.02539 | ++++ | AVRG | | 0.02539 | 0.000e+00 |
| (4) | ++++ ++++ | ++++ | ++++ | ++++ | 0.04226 | ++++ | AVRG | | 0.04226 | 0.000e+00 |
| (5) | ++++ ++++ | ++++ | ++++ | ++++ | 0.03298 | ++++ | AVRG | | 0.03298 | 0.000e+00 |

M52:01307

Report Date : 29-May-2012 09:10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | | %RSD or R ² |
|---------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|-----------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 80 Level 7 | | | | | | | | | | |
| (6) | ++++ ++++ | ++++ | ++++ | ++++ | 0.02391 | ++++ | AVRG | | 0.02391 | | 0.000e+00 |
| 39 2,4-DDE | 0.64988 0.69400 | 0.61961 | 0.57249 | 0.59082 | 0.66134 | 0.66488 | AVRG | | 0.63614 | | 6.84503 |
| 40 2,4-DDD | 0.49881 0.46367 | 0.48537 | 0.41561 | 0.41210 | 0.45904 | 0.44475 | AVRG | | 0.45419 | | 7.20462 |
| 41 2,4-DDT | 0.46557 0.51216 | 0.44832 | 0.40077 | 0.42378 | 0.46850 | 0.47784 | AVRG | | 0.45670 | | 8.00674 |
| 42 Hexachloroethane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | | 0.000e+00 |
| 43 Oxychlorane | 0.80130 0.89108 | 0.77864 | 0.72384 | 0.76824 | 0.82434 | 0.85339 | AVRG | | 0.80583 | | 6.94015 |
| 44 trans-Nonachlor | 0.94111 1.02639 | 0.87461 | 0.78610 | 0.85154 | 0.93144 | 0.97849 | AVRG | | 0.91281 | | 8.90355 |

0052:01308

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|-----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 Level 7 | | | | | | | | | |
| 45 cis-Nonachlor | 0.97468 1.22741 | 0.94956 | 0.89805 | 0.99130 | 1.07707 | 1.16703 | AVRG | | 1.04073 | 11.61010 |
| 46 Mirex | 0.74177 0.61132 | 0.64061 | 0.56842 | 0.57644 | 0.59676 | 0.58873 | AVRG | | 0.61772 | 9.66047 |
| 47 bis-(2-ethylhexyl) Phthalate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 48 Trifluralin | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 49 Dacthal | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 50 Oxadiazon | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 51 Kelthane | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |

MS2:01309

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2012 15:12
 End Cal Date : 25-MAY-2012 20:14
 Quant Method : ISTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd8.i/20120525PEST.b/PEST0525.m
 Cal Date : 29-May-2012 09:07 aron

| Compound | 1 | 2 | 5 | 10 | 20 | 40 | Curve | Coefficients | | %RSD or R ² |
|---------------------------|--------------------|---------|---------|---------|---------|---------|-------|--------------|-----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | |
| | 80 Level 7 | | | | | | | | | |
| 53 Chlorpyrifos | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 55 Methyl Parathion | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| 56 Ethyl Parathion | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | AVRG | | 0.000e+00 | 0.000e+00 |
| \$ 2 Tetrachloro-m-xylene | 1.15602 1.18849 | 1.07347 | 1.05521 | 1.08545 | 1.22492 | 1.14344 | AVRG | | 1.13243 | 5.58734 |
| \$ 25 Decachlorobiphenyl | 1.56359 1.34970 | 1.35337 | 1.26811 | 1.24542 | 1.40361 | 1.27810 | AVRG | | 1.35170 | 8.06450 |

11:52:01310

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd8.i/20120525PEST.b/ical-1.b

ARI Job No.: DS Method: PEST0525.m Instrument: ecd8.i Date: 25-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1434 | 0524A004.d | DS | | 1 | 4,4'-DDE, 4,4'-DDD, |
| 1453 | 0524A005.d | IB | | 1 | NO MANUAL INTEGRATION |
| 1512 | 0524A006.d | INDAE | | 1 | NO MANUAL INTEGRATION |
| 1531 | 0524A007.d | INDAA | | 1 | Endosulfan I, |
| 1550 | 0524A008.d | INDAB | | 1 | NO MANUAL INTEGRATION |
| 1609 | 0524A009.d | INDAC | | 1 | NO MANUAL INTEGRATION |
| 1628 | 0524A010.d | INDAD | | 1 | Hexachlorobutadiene, |
| 1647 | 0524A011.d | INDAF | | 1 | NO MANUAL INTEGRATION |
| 1706 | 0524A012.d | IDNAG | | 1 | Hexachlorobutadiene, |
| 1725 | 0524A013.d | INDA ICV | | 1 | NO MANUAL INTEGRATION |
| 1743 | 0524A014.d | HCB/HCBD ICV | | 1 | Hexachlorobutadiene, |
| 1802 | 0524A015.d | TOXAPH 2500 | | 1 | NO MANUAL INTEGRATION |
| 1821 | 0524A016.d | WNDE | | 1 | NO MANUAL INTEGRATION |
| 1840 | 0524A017.d | WNDA | | 1 | NO MANUAL INTEGRATION |
| 1859 | 0524A018.d | WNDB | | 1 | NO MANUAL INTEGRATION |
| 1918 | 0524A019.d | WNDC | | 1 | NO MANUAL INTEGRATION |
| 1937 | 0524A020.d | WNDD | | 1 | NO MANUAL INTEGRATION |
| 1956 | 0524A021.d | WNDF | | 1 | NO MANUAL INTEGRATION |
| 2014 | 0524A022.d | WNDG | | 1 | NO MANUAL INTEGRATION |
| 2033 | 0524A023.d | WND ICV | | 1 | NO MANUAL INTEGRATION |
| 2052 | 0524A024.d | OPDTS ICV | | 1 | NO MANUAL INTEGRATION |

USB2: 01311

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd8.i/20120525PEST.b/ical-1.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2111 | 0524A025.d | DDT RT | | 1 | NO MANUAL INTEGRATION |
| 2130 | 0524A026.d | TECH 200 | | 1 | NO MANUAL INTEGRATION |

052:01312

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0524A006 | 0524A007 | 0524A008 | 0524A009 | 0524A010 | 0524A011 | 0524A012 |
| INJ. DATE: | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 |
| INJ. TIME: | 15:12 | 15:31 | 15:50 | 16:09 | 16:28 | 16:47 | 17:06 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|---------------|---------|
| 1 Hexachlorobutadiene | 1.727 | 1.728 | 1.728 | 1.728 | 1.727 | 1.728 | 1.728 | 1.728 | 1.678-1.778 | 1.728 | 0.000 |
| * 54 1Bromo-2nitrobenzene | 3.028 | 3.029 | 3.029 | 3.029 | 3.029 | 3.029 | 3.029 | 3.030 | 2.980-3.080 | 3.029 | 0.000 |
| * 58 Hexabromobiphenyl | 9.138 | 9.138 | 9.137 | 9.137 | 9.138 | 9.138 | 9.137 | 9.138 | 9.088-9.188 | 9.138 | 0.000 |
| \$ 2 Tetrachloro-m-xylene | 3.896 | 3.896 | 3.897 | 3.896 | 3.896 | 3.896 | 3.897 | 3.897 | 3.847-3.947 | 3.896 | 0.000 |
| 3 Hexachlorobenzene | 4.287 | 4.288 | 4.288 | 4.288 | 4.287 | 4.287 | 4.287 | 4.287 | 4.237-4.337 | 4.287 | 0.000 |
| 4 alpha-BHC | 4.452 | 4.452 | 4.453 | 4.453 | 4.452 | 4.453 | 4.453 | 4.453 | 4.403-4.503 | 4.453 | 0.000 |
| 5 gamma-BHC (Lindane) | 4.754 | 4.755 | 4.756 | 4.755 | 4.755 | 4.755 | 4.755 | 4.755 | 4.705-4.805 | 4.755 | 0.000 |
| 6 beta-BHC | 4.846 | 4.848 | 4.848 | 4.848 | 4.847 | 4.846 | 4.846 | 4.846 | 4.796-4.896 | 4.847 | 0.001 |
| 7 delta-BHC | 5.010 | 5.012 | 5.013 | 5.012 | 5.011 | 5.011 | 5.011 | 5.011 | 4.961-5.061 | 5.011 | 0.001 |
| 8 Heptachlor | 5.200 | 5.201 | 5.202 | 5.201 | 5.200 | 5.201 | 5.201 | 5.201 | 5.151-5.251 | 5.201 | 0.000 |
| 9 Aldrin | 5.476 | 5.476 | 5.477 | 5.477 | 5.476 | 5.477 | 5.477 | 5.477 | 5.427-5.527 | 5.477 | 0.001 |
| 38 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.627 | 13.577-13.677 | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.869 | 10.819-10.919 | +++++ |
| 11 Heptachlor epoxide b | 6.028 | 6.028 | 6.029 | 6.029 | 6.028 | 6.028 | 6.028 | 6.028 | 5.978-6.078 | 6.028 | 0.001 |
| 12 gamma-Chlordane | 6.142 | 6.142 | 6.143 | 6.143 | 6.142 | 6.143 | 6.142 | 6.142 | 6.092-6.192 | 6.143 | 0.000 |
| 13 alpha-Chlordane | 6.261 | 6.262 | 6.262 | 6.263 | 6.262 | 6.263 | 6.262 | 6.262 | 6.212-6.312 | 6.262 | 0.001 |
| 14 Endosulfan I | 6.384 | 6.385 | 6.385 | 6.385 | 6.385 | 6.385 | 6.385 | 6.385 | 6.335-6.435 | 6.385 | 0.000 |

Reviewer 1
Reviewer 2

AR Date: 5/29/2012
AB Date: 5/29/12

052:01313

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 15 4,4'-DDE | 6.339 | 6.346 | 6.345 | 6.344 | 6.343 | 6.339 | 6.336 | 6.336 | 6.286-6.386 | 6.342 | 0.004 |
| 16 Dieldrin | 6.601 | 6.601 | 6.602 | 6.602 | 6.601 | 6.602 | 6.601 | 6.601 | 6.551-6.651 | 6.601 | 0.000 |
| 17 Endrin | 6.811 | 6.812 | 6.812 | 6.813 | 6.812 | 6.813 | 6.812 | 6.812 | 6.762-6.862 | 6.812 | 0.001 |
| 18 4,4'-DDD | 6.878 | 6.888 | 6.885 | 6.882 | 6.881 | 6.877 | 6.874 | 6.874 | 6.824-6.924 | 6.881 | 0.005 |
| 19 Endosulfan II | 7.015 | 7.016 | 7.017 | 7.017 | 7.016 | 7.016 | 7.015 | 7.015 | 6.965-7.065 | 7.016 | 0.001 |
| 20 4,4'-DDT | 7.125 | 7.129 | 7.129 | 7.128 | 7.127 | 7.125 | 7.123 | 7.123 | 7.073-7.173 | 7.127 | 0.002 |
| 21 Endrin aldehyde | 7.395 | 7.397 | 7.397 | 7.397 | 7.396 | 7.397 | 7.396 | 7.396 | 7.346-7.446 | 7.396 | 0.001 |
| 22 Methoxychlor | 7.562 | 7.565 | 7.565 | 7.564 | 7.564 | 7.563 | 7.561 | 7.561 | 7.511-7.611 | 7.563 | 0.002 |
| 23 Endosulfan sulfate | 7.795 | 7.797 | 7.796 | 7.797 | 7.796 | 7.796 | 7.796 | 7.796 | 7.746-7.846 | 7.796 | 0.001 |
| 24 Endrin ketone | 8.056 | 8.058 | 8.057 | 8.058 | 8.057 | 8.057 | 8.057 | 8.057 | 8.007-8.107 | 8.057 | 0.001 |
| 25 Decachlorobiphenyl | 8.980 | 8.981 | 8.981 | 8.981 | 8.980 | 8.981 | 8.980 | 8.980 | 8.930-9.030 | 8.981 | 0.001 |
| 26 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.066 | 5.016-5.116 | +++++ | +++++ |
| 27 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.080 | 4.030-4.130 | +++++ | +++++ |
| 28 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.266 | 4.216-4.316 | +++++ | +++++ |
| 29 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.170 | 5.120-5.220 | +++++ | +++++ |
| 30 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.516 | 5.466-5.566 | +++++ | +++++ |
| 31 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.848 | 5.798-5.898 | +++++ | +++++ |
| 32 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.598 | 6.548-6.648 | +++++ | +++++ |
| 33 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.599 | 6.549-6.649 | +++++ | +++++ |
| 34 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.995 | 7.945-8.045 | +++++ | +++++ |
| 35 Toxaphene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.068 | 7.018-7.118 | +++++ | +++++ |
| 39 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.027 | 5.977-6.077 | +++++ | +++++ |

052:01314

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.491 | 6.441-6.541 | +++++ | +++++ |
| 41 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.718 | 6.668-6.768 | +++++ | +++++ |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.769 | 1.719-1.819 | +++++ | +++++ |
| 43 Oxychlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.939 | 5.889-5.989 | +++++ | +++++ |
| 44 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.249 | 6.199-6.299 | +++++ | +++++ |
| 45 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.844 | 6.794-6.894 | +++++ | +++++ |
| 46 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.709 | 7.659-7.759 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.106-20.206 | +++++ | +++++ |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.269-6.369 | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.886-9.986 | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.841-11.941 | +++++ | +++++ |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.777-14.877 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.700-9.800 | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.057-9.157 | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.201-10.301 | +++++ | +++++ |

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0524A016 | 0524A017 | 0524A018 | 0524A019 | 0524A020 | 0524A021 | 0524A022 |
| INJ.DATE: | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 | 25-MAY-2012 |
| INJ.TIME: | 18:21 | 18:40 | 18:59 | 19:18 | 19:37 | 19:56 | 20:14 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.728 | 1.678-1.778 | +++++ | +++++ |
| * 54 1Bromo-2nitrobenzene | 3.028 | 3.029 | 3.029 | 3.029 | 3.030 | 3.030 | 3.030 | 3.030 | 2.980-3.080 | 3.029 | 0.001 |
| * 58 Hexabromobiphenyl | 9.137 | 9.135 | 9.136 | 9.136 | 9.139 | 9.140 | 9.138 | 9.138 | 9.088-9.188 | 9.137 | 0.002 |
| \$ 2 Tetrachloro-m-xylene | 3.896 | 3.896 | 3.896 | 3.896 | 3.898 | 3.898 | 3.898 | 3.897 | 3.847-3.947 | 3.897 | 0.001 |
| 3 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.287 | 4.237-4.337 | +++++ | +++++ |
| 4 alpha-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.453 | 4.403-4.503 | +++++ | +++++ |
| 5 gamma-BHC (Lindane) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.755 | 4.705-4.805 | +++++ | +++++ |
| 6 beta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.846 | 4.796-4.896 | +++++ | +++++ |
| 7 delta-BHC | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.011 | 4.961-5.061 | +++++ | +++++ |
| 8 Heptachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.201 | 5.151-5.251 | +++++ | +++++ |
| 9 Aldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.477 | 5.427-5.527 | +++++ | +++++ |
| 38 Chlorthalonil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.627 | 13.577-13.677 | +++++ | +++++ |
| 10 Heptachlor Epoxide a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.869 | 10.819-10.919 | +++++ | +++++ |
| 11 Heptachlor epoxide b | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.028 | 5.978-6.078 | +++++ | +++++ |
| 12 gamma-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.142 | 6.092-6.192 | +++++ | +++++ |
| 13 alpha-Chlordane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.262 | 6.212-6.312 | +++++ | +++++ |
| 14 Endosulfan I | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.385 | 6.335-6.435 | +++++ | +++++ |

Reviewer 1 _____
Reviewer 2 _____

AR
BB

Date: 5/29/2012
Date: 5/29/12

052:01316

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 15 4,4'-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.336 | 6.286-6.386 | ++++ | ++++ |
| 16 Dieldrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.601 | 6.551-6.651 | ++++ | ++++ |
| 17 Endrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.812 | 6.762-6.862 | ++++ | ++++ |
| 18 4,4'-DDD | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.874 | 6.824-6.924 | ++++ | ++++ |
| 19 Endosulfan II | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.015 | 6.965-7.065 | ++++ | ++++ |
| 20 4,4'-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.123 | 7.073-7.173 | ++++ | ++++ |
| 21 Endrin aldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.396 | 7.346-7.446 | ++++ | ++++ |
| 22 Methoxychlor | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.561 | 7.511-7.611 | ++++ | ++++ |
| 23 Endosulfan sulfate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.796 | 7.746-7.846 | ++++ | ++++ |
| 24 Endrin ketone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 8.057 | 8.007-8.107 | ++++ | ++++ |
| \$ 25 Decachlorobiphenyl | 8.979 | 8.979 | 8.980 | 8.979 | 8.982 | 8.983 | 8.981 | 8.980 | 8.930-9.030 | 8.981 | 0.002 |
| 26 Aroclor-1016 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.066 | 5.016-5.116 | ++++ | ++++ |
| 27 Aroclor-1221 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.080 | 4.030-4.130 | ++++ | ++++ |
| 28 Aroclor-1232 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 4.266 | 4.216-4.316 | ++++ | ++++ |
| 29 Aroclor-1242 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.170 | 5.120-5.220 | ++++ | ++++ |
| 30 Aroclor-1248 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.516 | 5.466-5.566 | ++++ | ++++ |
| 31 Aroclor-1254 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 5.848 | 5.798-5.898 | ++++ | ++++ |
| 32 Aroclor-1260 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.598 | 6.548-6.648 | ++++ | ++++ |
| 33 Aroclor-1262 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 6.599 | 6.549-6.649 | ++++ | ++++ |
| 34 Aroclor-1268 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.995 | 7.945-8.045 | ++++ | ++++ |
| 35 Toxaphene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 7.068 | 7.018-7.118 | ++++ | ++++ |
| 39 2,4-DDE | 6.027 | 6.027 | 6.028 | 6.028 | 6.029 | 6.028 | 6.027 | 6.027 | 5.977-6.077 | 6.028 | 0.001 |

052:01317

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd8.i/20120525PEST.b/PEST0525.m
Batch File: /chem2/ecd8.i/20120525PEST.b/ical-1.b
Inst ID: ecd8.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | 6.492 | 6.493 | 6.495 | 6.494 | 6.496 | 6.494 | 6.491 | 6.491 | 6.441-6.541 | 6.494 | 0.001 |
| 41 2,4-DDT | 6.717 | 6.718 | 6.719 | 6.718 | 6.720 | 6.720 | 6.718 | 6.718 | 6.668-6.768 | 6.719 | 0.001 |
| 42 Hexachloroethane | 1.765 | 1.774 | 1.763 | 1.772 | 1.766 | 1.777 | 1.769 | 1.769 | 1.719-1.819 | 1.769 | 0.005 |
| 43 Oxychlordane | 5.936 | 5.936 | 5.937 | 5.937 | 5.939 | 5.939 | 5.939 | 5.939 | 5.889-5.989 | 5.938 | 0.001 |
| 44 trans-Nonachlor | 6.247 | 6.247 | 6.248 | 6.248 | 6.250 | 6.250 | 6.249 | 6.249 | 6.199-6.299 | 6.249 | 0.001 |
| 45 cis-Nonachlor | 6.842 | 6.843 | 6.843 | 6.843 | 6.845 | 6.845 | 6.844 | 6.844 | 6.794-6.894 | 6.844 | 0.001 |
| 46 Mirex | 7.707 | 7.707 | 7.708 | 7.707 | 7.710 | 7.710 | 7.709 | 7.709 | 7.659-7.759 | 7.708 | 0.001 |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.106-20.206 | +++++ | +++++ |
| 48 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.269-6.369 | +++++ | +++++ |
| 49 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.886-9.986 | +++++ | +++++ |
| 50 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.841-11.941 | +++++ | +++++ |
| 51 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.777-14.877 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.700-9.800 | +++++ | +++++ |
| 55 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.057-9.157 | +++++ | +++++ |
| 56 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.201-10.301 | +++++ | +++++ |

4452: 01318

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1452529 | 836406 | -42.4 |
| Hexabromobiphenyl | 1939335 | 1091107 | -43.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1873046 | 1248621 | -33.3 |
| Hexabromobiphenyl | 2080354 | 1339634 | -35.6 |

*ISTD updated
new macro saved*

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

=====

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20120525PEST

Analysis Date: 25-MAY-2012 14:34

Init. Calib. Date: 25-MAY-2012

GC Column: STX-CLP1 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 6.341 | 9743 |
| Endrin | 6.813 | 1398088 |
| 4,4'-DDD | 6.880 | 69143 |
| 4,4'-DDT | 7.127 | 741637 |
| Endrin ketone | 8.058 | 60664 |
| Endrin aldehyde | 7.398 | 23226 |

DDT Percent Breakdown = 9.6 %
 $((9743+69143) * 100) / (9743+69143+741637)$

Endrin Percent Breakdown = 5.7 %
 $((23226+60664) * 100) / (23226+60664+1398088)$

GC Column: STX-CLP2 ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|-------|---------|
| 4,4'-DDE | 7.026 | 29884 |
| Endrin | 7.490 | 1615155 |
| 4,4'-DDD | 7.568 | 102761 |
| 4,4'-DDT | 7.860 | 933004 |
| Endrin ketone | 8.782 | 77706 |
| Endrin aldehyde | 7.999 | 40367 |

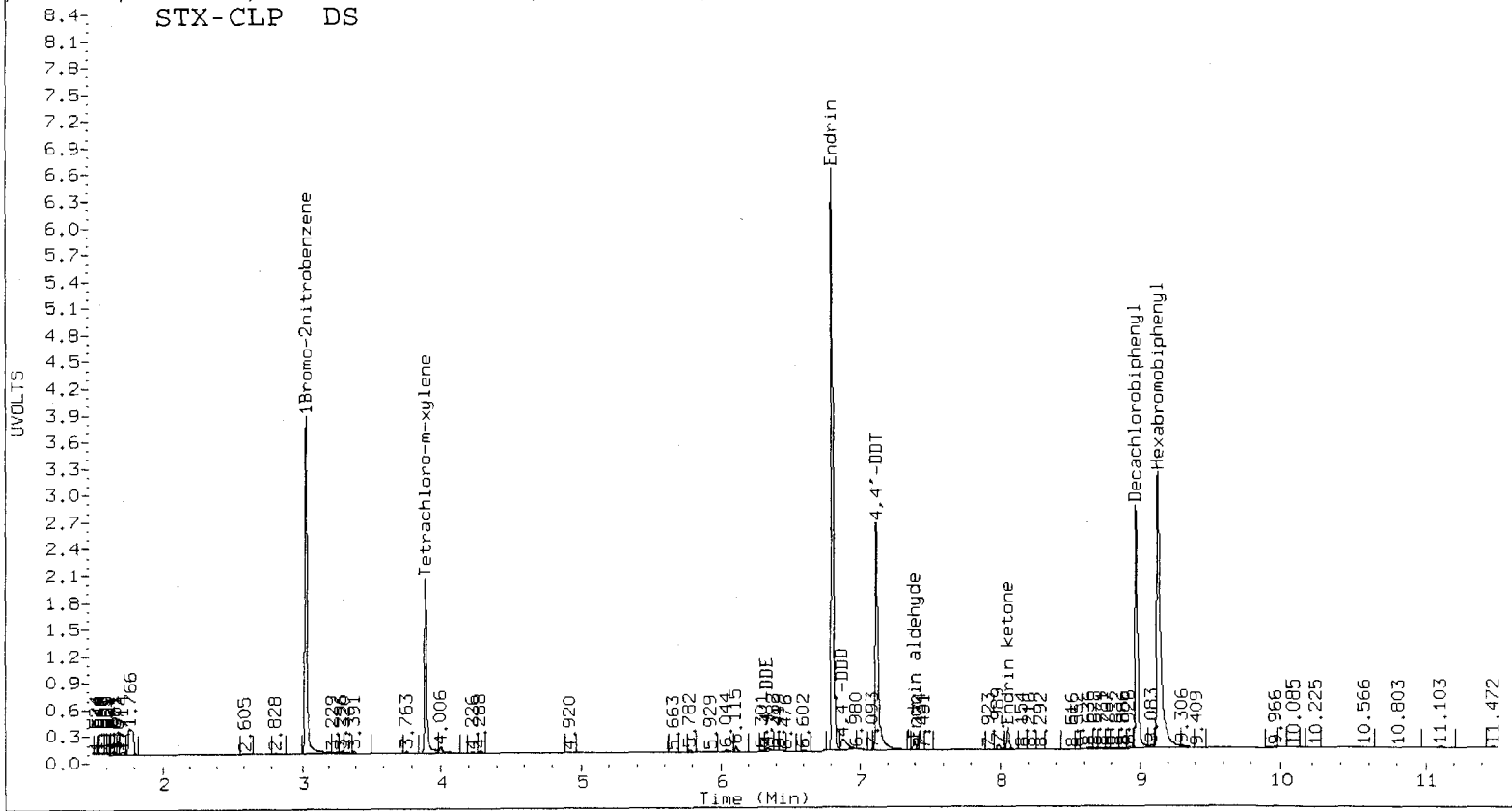
DDT Percent Breakdown = 12.4 %
 $((29884+102761) * 100) / (29884+102761+933004)$

Endrin Percent Breakdown = 6.8 %
 $((40367+77706) * 100) / (40367+77706+1615155)$

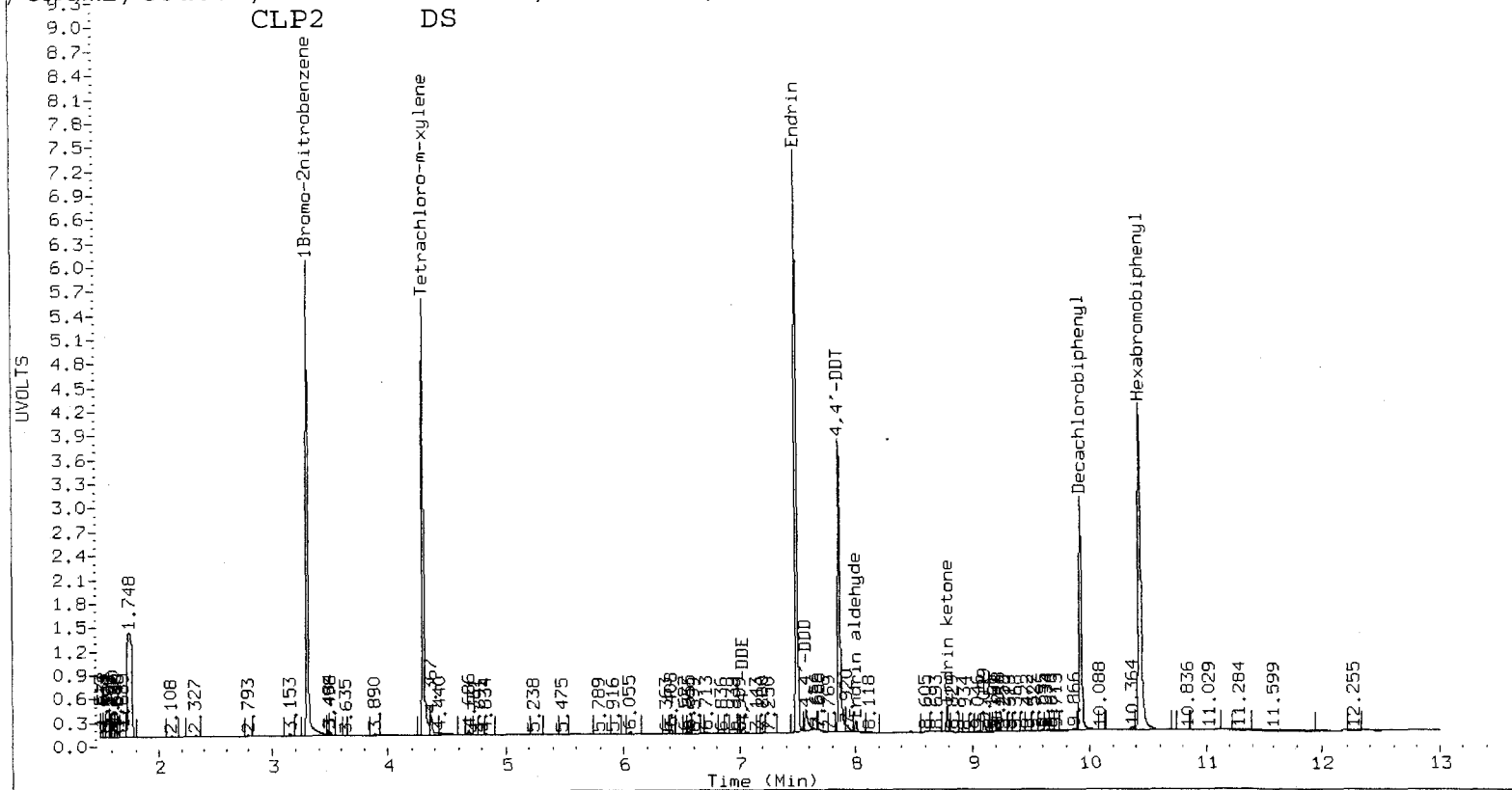
Form VII Pest-1

0052: 01320

STX-CLP DS



CLP2 DS



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A005.d ARI ID: IB
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A005.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 14:53
 Compound Sublist: wpest Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.028 | -0.002 | 847392 | 3.294 | -0.002 | 1216529 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | alpha-BHC |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | beta-BHC |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | delta-BHC |
| ---- | ---- | ---- | 5.237 | -0.046 | 1103 | 0.0000 | 0.0522 | --- | gamma-BHC (Lindane) |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Heptachlor |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Aldrin |
| 6.044 | 0.016 | 2260 | 6.554 | -0.013 | 4525 | 0.1627 | 0.2284 | 33.6 | Heptachlor epoxide b A B |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Endosulfan I |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Dieldrin |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 4,4'-DDE |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Endrin |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Endosulfan II |
| 6.900 | 0.026 | 11414 | ---- | ---- | ---- | 1.1892 | 0.0000 | --- | 4,4'-DDD |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Endosulfan sulfate |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 4,4'-DDT |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Methoxychlor |
| 8.076 | 0.020 | 9194 | ---- | ---- | ---- | 0.7294 | 0.0000 | --- | Endrin ketone |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Endrin aldehyde |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | gamma-Chlordane |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 1.717 | -0.011 | 6136 | ---- | ---- | ---- | 0.2374 | 0.0000 | --- | Hexachlorobutadiene |
| 4.286 | -0.001 | 5376 | 4.833 | 0.042 | 1758 | 0.3619 | 0.0757 | 130.8* | Hexachlorobenzene A B |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Oxychlorane |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4-DDE |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | trans-Nonachlor |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4-DDD |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4-DDT |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | Mirex |
| 9.137 | -0.001 | 1085236 | 10.432 | -0.001 | 1332632 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 1.774 | 0.005 | 22305 | 1.749 | -0.002 | 5680769 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.895 | -0.001 | 451145 | 4.297 | -0.002 | 1182415 | 37.6106 | 40.4397 | 7.2 | Tetrachloro-m-xylene A B |
| 8.980 | 0.000 | 663852 | 9.922 | 0.000 | 777465 | 36.2040 | 34.7078 | 4.2 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

0052:01322

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|-------|-------|--------|
| Tetrachloro-m-xylene | 94.0 | 101.1 | 94.0 | 29-110 |
| Decachlorobiphenyl | 90.5 | 86.8 | 86.8 | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 847392 | 1.3 |
| Hexabromobiphenyl | 1091107 | 1085236 | -0.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1216529 | -2.6 |
| Hexabromobiphenyl | 1339634 | 1332632 | -0.5 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|----------------------------|-------|-----|-------|--------|-------------------------|-------|-----|-------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Toxaphene | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Toxaphene | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Toxaphene | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Toxaphene | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| Toxaphene | 6 | --- | | | 0.000 | NS | --- | | | ---- |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1016 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1016 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1016 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1016 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1016 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1221 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1221 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1221 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1232 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1232 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1232 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1232 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1242 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1242 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1242 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1242 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| Aroclor-1242 | 6 | --- | | | 0.000 | NS | --- | | | ---- |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |

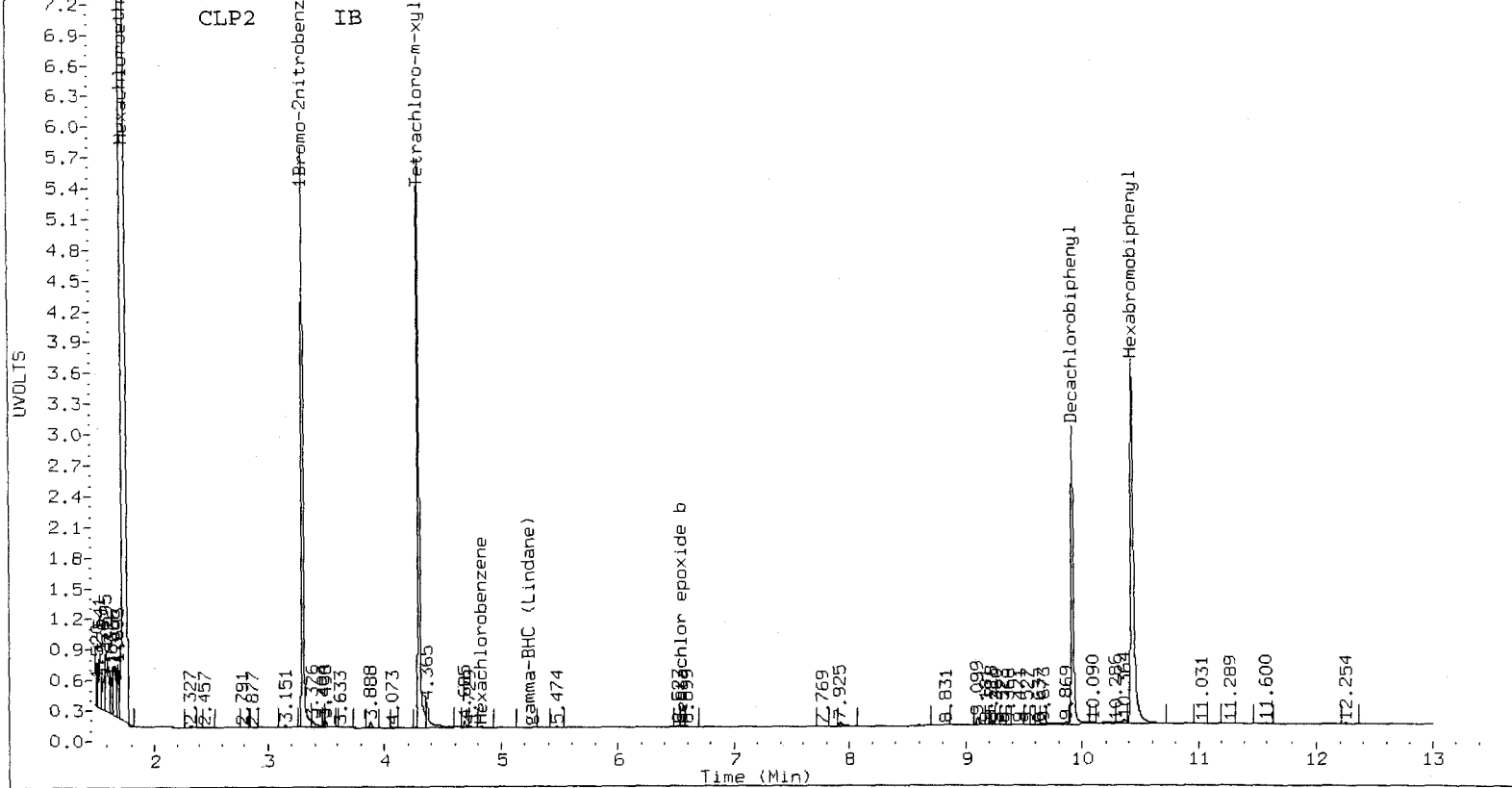
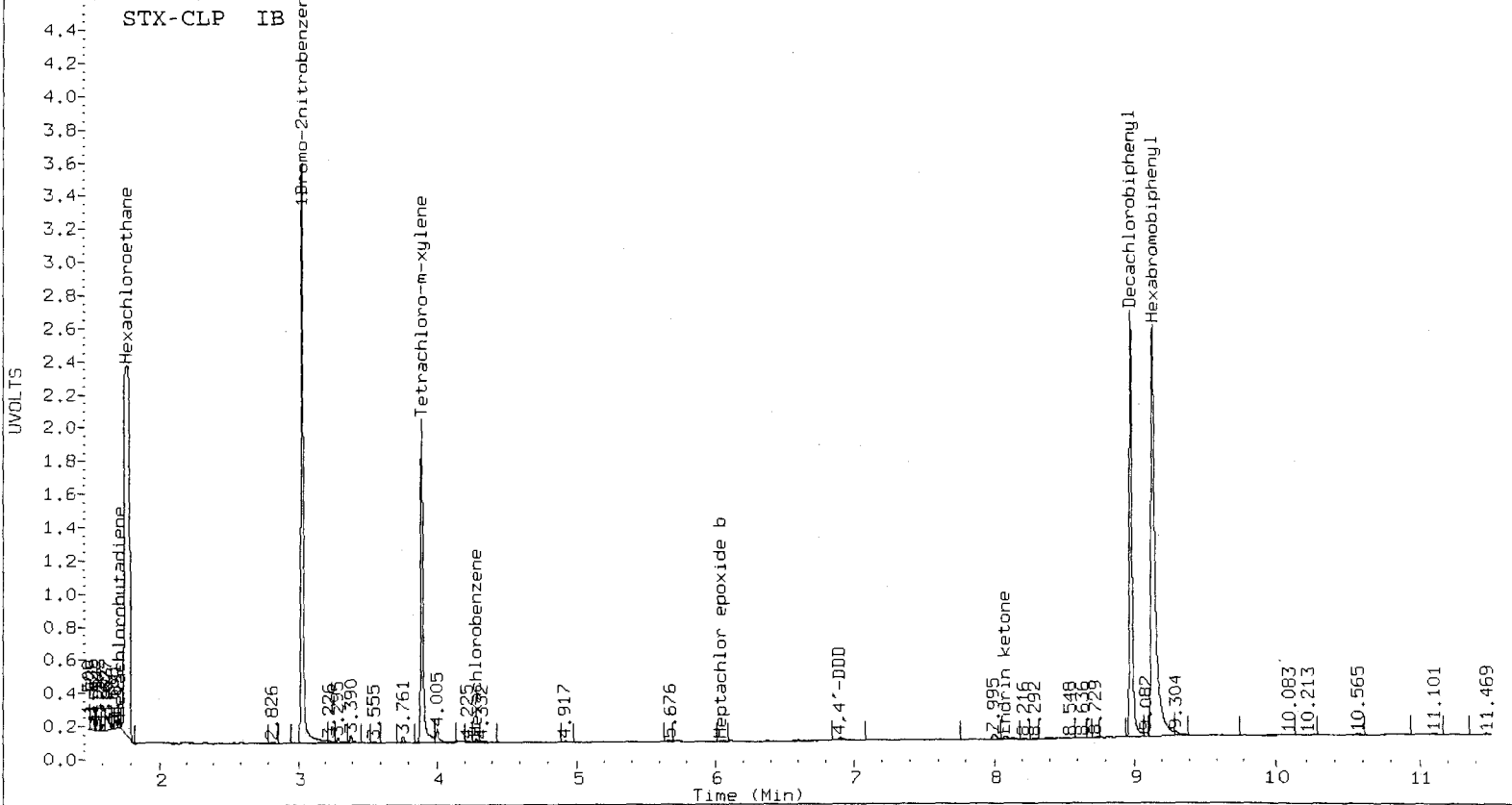
STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A006.d ARI ID: INDAE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A006.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 15:12
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|----------|---------------|--------------------------|
| 3.028 | -0.002 | 836406 | 3.295 | -0.002 | 1248621 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.452 | -0.001 | 354593 | 4.928 | -0.002 | 555068 | 22.0777 | 21.3612 | 3.3 | alpha-BHC A B |
| 4.846 | 0.000 | 115945 | 5.366 | -0.001 | 215432 | 18.7534 | 19.8820 | 5.8 | beta-BHC A B |
| 5.010 | -0.001 | 276278 | 5.652 | -0.001 | 406417 | 21.6376 | 21.1988 | 2.0 | delta-BHC A B |
| 4.754 | -0.001 | 281964 | 5.281 | -0.001 | 447366 | 21.5983 | 20.6109 | 4.7 | gamma-BHC (Lindane) A B |
| 5.200 | -0.001 | 278881 | 5.712 | -0.001 | 405290 | 21.6617 | 20.5155 | 5.4 | Heptachlor A B |
| 5.476 | -0.001 | 329807 | 6.027 | -0.001 | 515077 | 21.5381 | 21.1185 | 2.0 | Aldrin A B |
| 6.028 | -0.001 | 286008 | 6.566 | -0.001 | 405594 | 20.8564 | 19.9505 | 4.4 | Heptachlor epoxide b A B |
| 6.384 | 0.000 | 455048 | 6.941 | -0.001 | 397007 | 21.0653 | 20.0968 | 4.7 | Endosulfan I A B |
| 6.601 | 0.000 | 641787 | 7.197 | -0.002 | 876942 | 43.7848 | 41.7478 | 4.8 | Dieldrin A B |
| 6.339 | 0.003 | 491054 | 7.024 | 0.001 | 992803 | 40.5188 | 42.8350 | 5.6 | 4,4'-DDE A B |
| 6.811 | 0.000 | 533282 | 7.488 | -0.002 | 683033 | 44.9880 | 42.7993 | 5.0 | Endrin A B |
| 7.015 | 0.000 | 534002 | 7.684 | -0.002 | 712041 | 43.8077 | 41.8832 | 4.5 | Endosulfan II A B |
| 6.878 | 0.004 | 390594 | 7.566 | 0.001 | 596442 | 40.4773 | 41.0837 | 1.5 | 4,4'-DDD A B |
| 7.795 | -0.001 | 440270 | 8.257 | -0.001 | 595793 | 43.1986 | 41.7142 | 3.5 | Endosulfan sulfate A B |
| 7.125 | 0.002 | 299363 | 7.858 | 0.000 | 390805 | 45.7615 | 43.1644 | 5.8 | 4,4'-DDT A B |
| 7.562 | 0.001 | 783166 | 8.487 | 0.000 | 964416 | 210.9175 | 208.6184 | 1.1 | Methoxychlor A B |
| 8.056 | -0.001 | 502181 | 8.779 | -0.001 | 635167 | 39.6274 | 41.1757 | 3.8 | Endrin ketone A B |
| 7.395 | -0.001 | 412807 | 7.997 | -0.002 | 588760 | 42.5532 | 40.9518 | 3.8 | Endrin aldehyde A B |
| 6.142 | -0.001 | 288889 | 6.745 | -0.001 | 440728 | 21.0475 | 20.1506 | 4.4 | gamma-Chlordane A B |
| 6.261 | 0.000 | 297554 | 6.880 | -0.002 | 444865 | 21.0272 | 20.2666 | 3.7 | alpha-Chlordane A B |
| 1.727 | -0.001 | 528586 | 2.035 | -0.002 | 822080 | 20.7154 | 20.8340 | 0.6 | Hexachlorobutadiene A B |
| 4.287 | 0.000 | 309513 | 4.790 | -0.001 | 506105 | 21.1100 | 21.2422 | 0.6 | Hexachlorobenzene A B |
| 9.138 | -0.001 | 1091107 | 10.431 | -0.002 | 1339634 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 | 512264 | 4.297 | -0.001 | 1330096 | 43.2669 | 44.3213 | 2.4 | Tetrachloro-m-xylene A B |
| 8.980 | 0.000 | 765744 | 9.921 | 0.000 | 901520 | 41.5362 | 40.0355 | 3.7 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|-------|--------|
| Tetrachloro-m-xylene | 108.2 | 110.8 | 108.2 | 85-115 |
| Decachlorobiphenyl | 103.8 | 100.1 | 100.1 | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

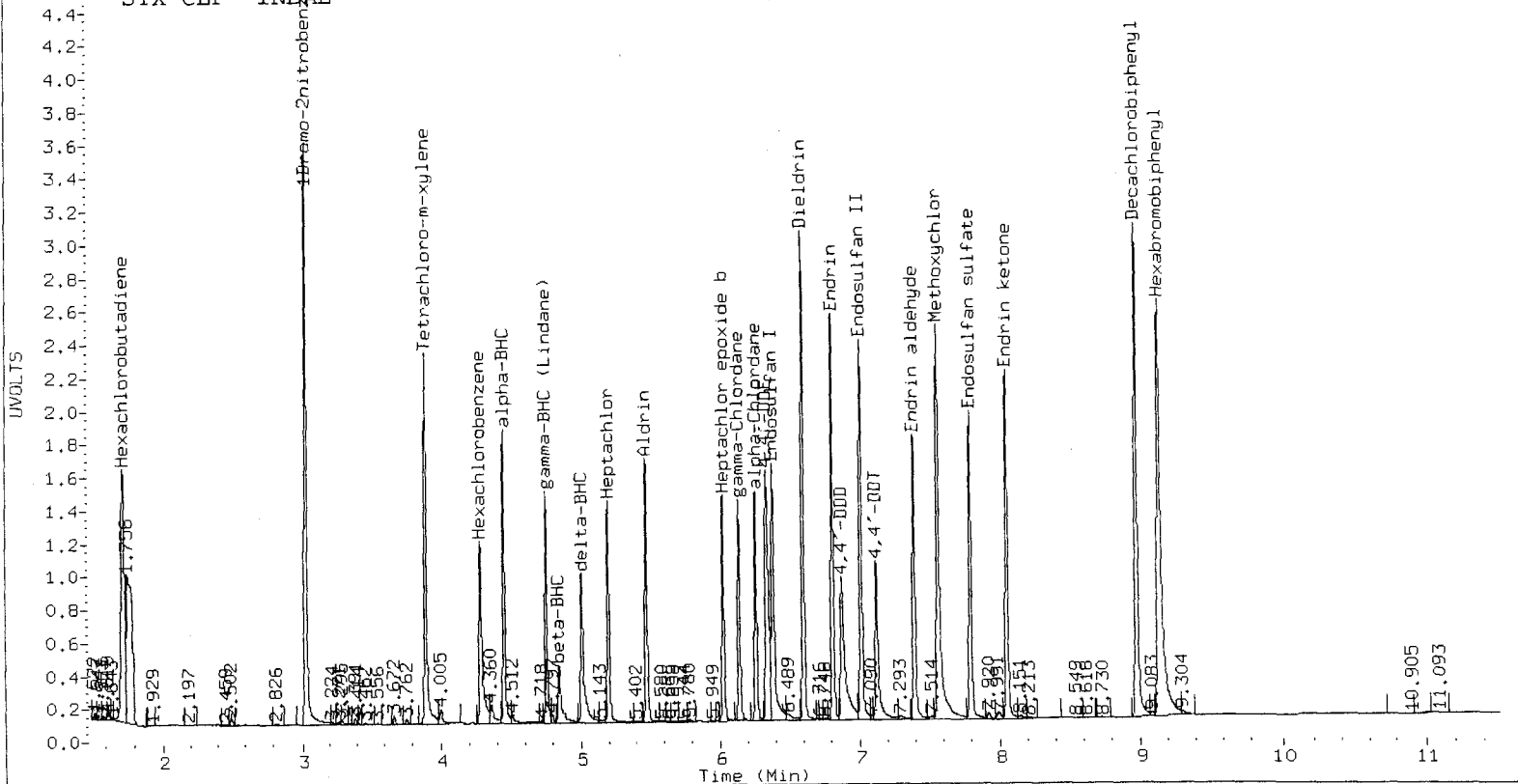
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 836406 | 0.0 |
| Hexabromobiphenyl | 1091107 | 1091107 | 0.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1248621 | 0.0 |
| Hexabromobiphenyl | 1339634 | 1339634 | 0.0 |

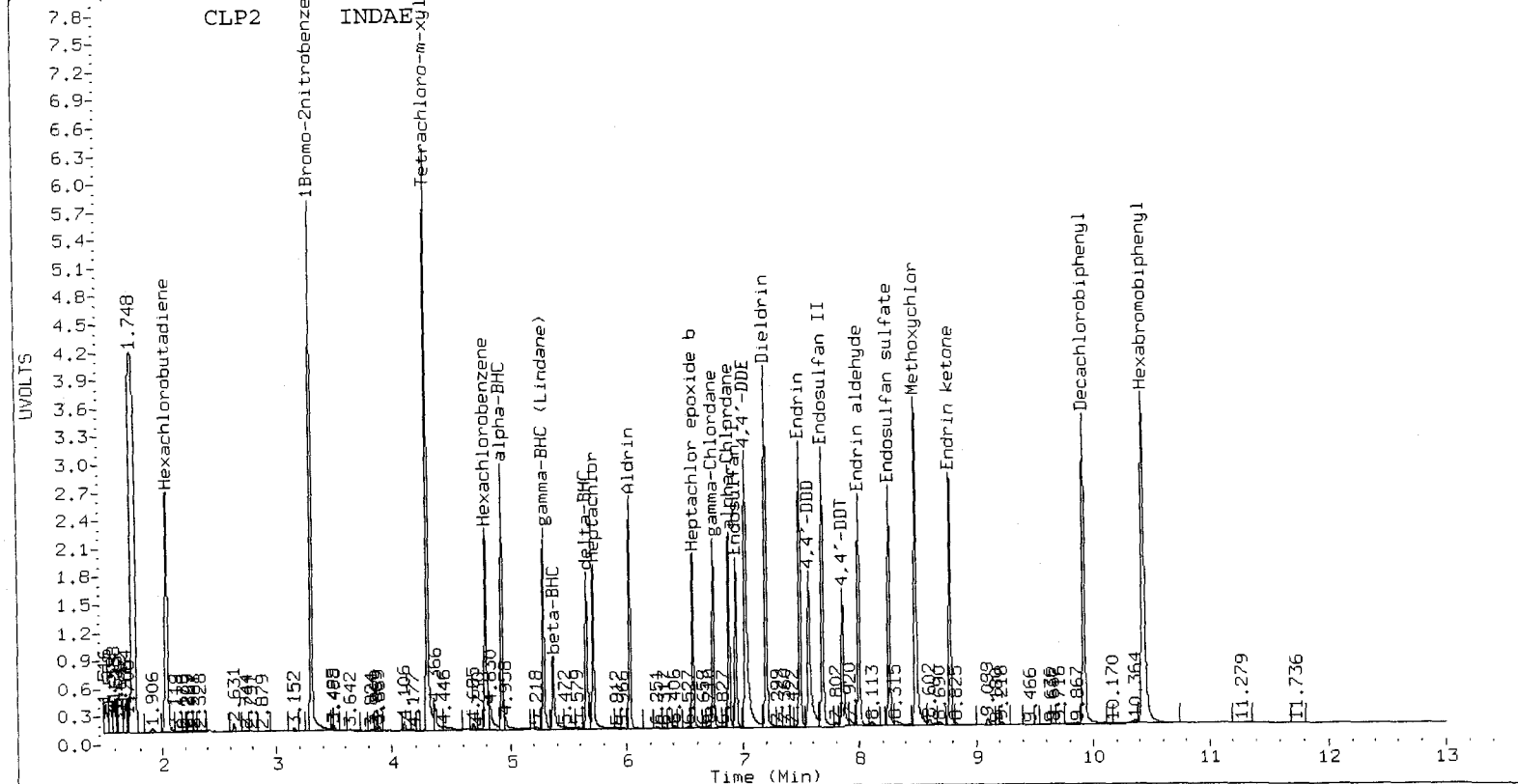
* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|--|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | |
| ===== | | | | | | | | | | | |

STX-CLP INDIAE



CLP2 INDIAE



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A007.d ARI ID: INDAA
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A007.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 15:31
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|-------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.029 | -0.001 | 890226 | 3.295 | -0.002 | 1353989 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.452 | -0.001 | 18546 | 4.928 | -0.001 | 35747 | 1.0849 | 1.2686 | 15.6 | alpha-BHC A B |
| 4.848 | 0.002 | 10159 | 5.367 | 0.001 | 16428 | 1.5438 | 1.3981 | 9.9 | beta-BHC A B |
| 5.012 | 0.001 | 15345 | 5.654 | 0.001 | 25848 | 1.1291 | 1.2433 | 9.6 | delta-BHC A B |
| 4.755 | -0.001 | 16517 | 5.282 | -0.001 | 31104 | 1.1887 | 1.3215 | 10.6 | gamma-BHC (Lindane) A B |
| 5.201 | 0.000 | 16233 | 5.713 | 0.000 | 28087 | 1.1847 | 1.3111 | 10.1 | Heptachlor A B |
| 5.476 | -0.001 | 18752 | 6.028 | -0.001 | 34410 | 1.1506 | 1.3010 | 12.3 | Aldrin A B |
| 6.028 | 0.000 | 18470 | 6.567 | 0.000 | 31102 | 1.2654 | 1.4108 | 10.9 | Heptachlor epoxide b A B |
| 6.385 | 0.001 | 28049 | 6.942 | 0.000 | 29125 | 1.2200 | 1.3596 | 10.8 | Endosulfan I A BM |
| 6.601 | 0.000 | 35765 | 7.199 | 0.000 | 60899 | 2.2925 | 2.6736 | 15.3 | Dieldrin A B |
| 6.346 | 0.010 | 20007 | 7.028 | 0.005 | 63863 | 1.6313 | 2.5410 | 43.6* | 4,4'-DDE A B |
| 6.812 | 0.000 | 31171 | 7.489 | -0.001 | 48429 | 2.3531 | 2.7538 | 15.7 | Endrin A B |
| 7.016 | 0.001 | 34545 | 7.686 | 0.000 | 51685 | 2.5359 | 2.7589 | 8.4 | Endosulfan II A B |
| 6.888 | 0.014 | 32558 | 7.569 | 0.005 | 45588 | 3.0192 | 2.8496 | 5.8 | 4,4'-DDD A B |
| 7.797 | 0.001 | 28483 | 8.259 | 0.000 | 42551 | 2.5008 | 2.7035 | 7.8 | Endosulfan sulfate A B |
| 7.129 | 0.006 | 14842 | 7.861 | 0.003 | 22067 | 2.0302 | 2.2118 | 8.6 | 4,4'-DDT A B |
| 7.565 | 0.004 | 49662 | 8.489 | 0.002 | 64002 | 11.9682 | 12.5637 | 4.9 | Methoxychlor A B |
| 8.058 | 0.001 | 43327 | 8.781 | 0.000 | 46455 | 3.0594 | 2.7329 | 11.3 | Endrin ketone A B |
| 7.397 | 0.001 | 28386 | 7.999 | 0.000 | 46377 | 2.6184 | 2.9273 | 11.1 | Endrin aldehyde A B |
| 6.142 | 0.000 | 18158 | 6.746 | 0.000 | 32039 | 1.2430 | 1.3509 | 8.3 | gamma-Chlordane A B |
| 6.262 | 0.000 | 17960 | 6.881 | 0.000 | 31623 | 1.1924 | 1.3285 | 10.8 | alpha-Chlordane A B |
| 1.728 | 0.000 | 32671 | 2.035 | -0.002 | 61757 | 1.2030 | 1.4433 | 18.2 | Hexachlorobutadiene A B |
| 4.288 | 0.000 | 21020 | 4.791 | 0.000 | 37487 | 1.3470 | 1.4510 | 7.4 | Hexachlorobenzene A B |
| 9.138 | -0.001 | 1219330 | 10.432 | -0.001 | 1476221 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | 0.000 | 32160 | 4.298 | -0.001 | 87172 | 2.5521 | 2.6787 | 4.8 | Tetrachloro-m-xylene A B |
| 8.981 | 0.001 | 59579 | 9.922 | 0.001 | 77275 | 2.8919 | 3.1142 | 7.4 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 6.4 | 6.7 | 6.4~ | 85-115 |
| Decachlorobiphenyl | 7.2 | 7.8 | 7.2~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 890226 | 6.4 |
| Hexabromobiphenyl | 1091107 | 1219330 | 11.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1353989 | 8.4 |
| Hexabromobiphenyl | 1339634 | 1476221 | 10.2 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A008.d ARI ID: INDAB
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A008.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 15:50
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|--------------------------|
| 3.029 | -0.001 893818 | 3.295 -0.001 1375217 | 3.295 | -0.001 1375217 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.453 | 0.000 36494 | 4.929 0.000 67263 | 4.929 | 0.000 67263 | 2.1262 | 2.3503 | 10.0 | alpha-BHC A B |
| 4.848 | 0.002 18164 | 5.368 0.002 31043 | 5.368 | 0.002 31043 | 2.7492 | 2.6012 | 5.5 | beta-BHC A B |
| 5.013 | 0.002 29426 | 5.655 0.002 48559 | 5.655 | 0.002 48559 | 2.1566 | 2.2997 | 6.4 | delta-BHC A B |
| 4.756 | 0.000 31469 | 5.283 0.000 57901 | 5.283 | 0.000 57901 | 2.2557 | 2.4220 | 7.1 | gamma-BHC (Lindane) A B |
| 5.202 | 0.000 31307 | 5.714 0.000 55371 | 5.714 | 0.000 55371 | 2.2755 | 2.5448 | 11.2 | Heptachlor A B |
| 5.477 | 0.000 36332 | 6.029 0.001 64389 | 6.029 | 0.001 64389 | 2.2203 | 2.3970 | 7.7 | Aldrin A B |
| 6.029 | 0.000 34385 | 6.567 0.000 58367 | 6.567 | 0.000 58367 | 2.3464 | 2.6067 | 10.5 | Heptachlor epoxide b A B |
| 6.385 | 0.000 63687 | 6.942 0.000 53736 | 6.942 | 0.000 53736 | 2.7589 | 2.4698 | 11.1 | Endosulfan I A B |
| 6.602 | 0.000 72830 | 7.199 0.000 113884 | 7.199 | 0.000 113884 | 4.6496 | 4.9225 | 5.7 | Dieldrin A B |
| 6.345 | 0.009 39965 | 7.028 0.005 119294 | 7.028 | 0.005 119294 | 3.2392 | 4.6732 | 36.2 | 4,4'-DDE A B |
| 6.812 | 0.000 60279 | 7.490 0.000 88961 | 7.490 | 0.000 88961 | 4.4883 | 4.9469 | 9.7 | Endrin A B |
| 7.017 | 0.001 65440 | 7.686 0.000 94635 | 7.686 | 0.000 94635 | 4.7383 | 4.9400 | 4.2 | Endosulfan II A B |
| 6.885 | 0.011 56762 | 7.569 0.004 82488 | 7.569 | 0.004 82488 | 5.1918 | 5.0423 | 2.9 | 4,4'-DDD A B |
| 7.796 | 0.000 54115 | 8.259 0.000 79060 | 8.259 | 0.000 79060 | 4.6864 | 4.9123 | 4.7 | Endosulfan sulfate A B |
| 7.129 | 0.005 31159 | 7.861 0.003 42580 | 7.861 | 0.003 42580 | 4.2039 | 4.1736 | 0.7 | 4,4'-DDT A B |
| 7.565 | 0.004 95874 | 8.489 0.002 124453 | 8.489 | 0.002 124453 | 22.7893 | 23.8909 | 4.7 | Methoxychlor A B |
| 8.057 | 0.000 74349 | 8.780 0.000 86865 | 8.780 | 0.000 86865 | 5.1782 | 4.9973 | 3.6 | Endrin ketone A B |
| 7.397 | 0.001 52835 | 7.999 0.000 83086 | 7.999 | 0.000 83086 | 4.8071 | 5.1286 | 6.5 | Endrin aldehyde A B |
| 6.143 | 0.001 34151 | 6.746 0.000 59635 | 6.746 | 0.000 59635 | 2.3283 | 2.4756 | 6.1 | gamma-Chlordane A B |
| 6.262 | 0.001 34442 | 6.882 0.000 58289 | 6.882 | 0.000 58289 | 2.2776 | 2.4110 | 5.7 | alpha-Chlordane A B |
| 1.728 | 0.000 62240 | 2.037 -0.001 110824 | 2.037 | -0.001 110824 | 2.2825 | 2.5501 | 11.1 | Hexachlorobutadiene A B |
| 4.288 | 0.001 38400 | 4.792 0.001 66896 | 4.792 | 0.001 66896 | 2.4508 | 2.5493 | 3.9 | Hexachlorobenzene A B |
| 9.137 | -0.001 1236219 | 10.433 -0.001 1509551 | 10.433 | -0.001 1509551 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.897 | 0.000 59968 | 4.298 0.000 163675 | 4.298 | 0.000 163675 | 4.7397 | 4.9519 | 4.4 | Tetrachloro-m-xylene A B |
| 8.981 | 0.001 104566 | 9.922 0.001 135305 | 9.922 | 0.001 135305 | 5.0062 | 5.3324 | 6.3 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 11.8 | 12.4 | 11.8~ | 85-115 |
| Decachlorobiphenyl | 12.5 | 13.3 | 12.5~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 893818 | 6.9 |
| Hexabromobiphenyl | 1091107 | 1236219 | 13.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1375217 | 10.1 |
| Hexabromobiphenyl | 1339634 | 1509551 | 12.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A009.d ARI ID: INDAC
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A009.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 16:09
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|--------|----------------------------|-------------------|----------------|------|--------------------------|
| 3.029 | -0.001 874235 | 3.295 | -0.001 1357862 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.453 | 0.000 74095 | 4.929 | 0.000 133743 | 4.4137 | 4.7329 | 7.0 | alpha-BHC A B |
| 4.848 | 0.002 28526 | 5.368 | 0.001 58837 | 4.4143 | 4.9932 | 12.3 | beta-BHC A B |
| 5.012 | 0.001 56766 | 5.654 | 0.001 98429 | 4.2534 | 4.7210 | 10.4 | delta-BHC A B |
| 4.755 | 0.000 60018 | 5.283 | 0.000 112743 | 4.3984 | 4.7764 | 8.2 | gamma-BHC (Lindane) A B |
| 5.201 | 0.000 60767 | 5.713 | 0.000 102797 | 4.5158 | 4.7849 | 5.8 | Heptachlor A B |
| 5.477 | 0.000 72338 | 6.029 | 0.000 126602 | 4.5196 | 4.7732 | 5.5 | Aldrin A B |
| 6.029 | 0.001 66721 | 6.567 | 0.000 109040 | 4.6549 | 4.9320 | 5.8 | Heptachlor epoxide b A B |
| 6.385 | 0.001 114912 | 6.942 | 0.000 111785 | 5.0894 | 5.2034 | 2.2 | Endosulfan I A B |
| 6.602 | 0.001 144179 | 7.199 | 0.000 224213 | 9.4107 | 9.8152 | 4.2 | Dieldrin A B |
| 6.344 | 0.008 91795 | 7.027 | 0.004 250542 | 7.5667 | 9.9401 | 27.1 | 4,4'-DDE A B |
| 6.813 | 0.001 118793 | 7.490 | 0.000 174661 | 9.0299 | 9.7896 | 8.1 | Endrin A B |
| 7.017 | 0.002 123852 | 7.686 | 0.000 187389 | 9.1551 | 9.8595 | 7.4 | Endosulfan II A B |
| 6.882 | 0.008 95856 | 7.569 | 0.004 161536 | 8.9507 | 9.9528 | 10.6 | 4,4'-DDD A B |
| 7.797 | 0.001 105098 | 8.259 | 0.001 154982 | 9.2918 | 9.7061 | 4.4 | Endosulfan sulfate A B |
| 7.128 | 0.005 59091 | 7.861 | 0.002 92206 | 8.1391 | 9.1096 | 11.3 | 4,4'-DDT A B |
| 7.564 | 0.004 190801 | 8.489 | 0.002 254268 | 46.3013 | 49.1988 | 6.1 | Methoxychlor A B |
| 8.058 | 0.001 133031 | 8.781 | 0.000 168184 | 9.4589 | 9.7524 | 3.1 | Endrin ketone A B |
| 7.397 | 0.001 99888 | 7.999 | 0.000 157966 | 9.2779 | 9.8282 | 5.8 | Endrin aldehyde A B |
| 6.143 | 0.000 65755 | 6.746 | 0.000 114104 | 4.5834 | 4.7972 | 4.6 | gamma-Chlordane A B |
| 6.263 | 0.001 73500 | 6.882 | 0.000 123863 | 4.9693 | 5.1888 | 4.3 | alpha-Chlordane A B |
| 1.728 | 0.000 148749 | 2.037 | -0.001 208118 | 5.5773 | 4.8500 | 13.9 | Hexachlorobutadiene A B |
| 4.288 | 0.000 72151 | 4.791 | 0.000 124617 | 4.7080 | 4.8096 | 2.1 | Hexachlorobenzene A B |
| 9.137 | -0.001 1210916 | 10.433 | 0.000 1497654 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | 0.000 115313 | 4.298 | -0.001 315740 | 9.3181 | 9.6746 | 3.8 | Tetrachloro-m-xylene A B |
| 8.981 | 0.001 191947 | 9.922 | 0.001 253469 | 9.3816 | 10.0686 | 7.1 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 23.3 | 24.2 | 23.3~ | 85-115 |
| Decachlorobiphenyl | 23.5 | 25.2 | 23.5~ | 85-115 |

~ Indicates recovery outside QC Limits

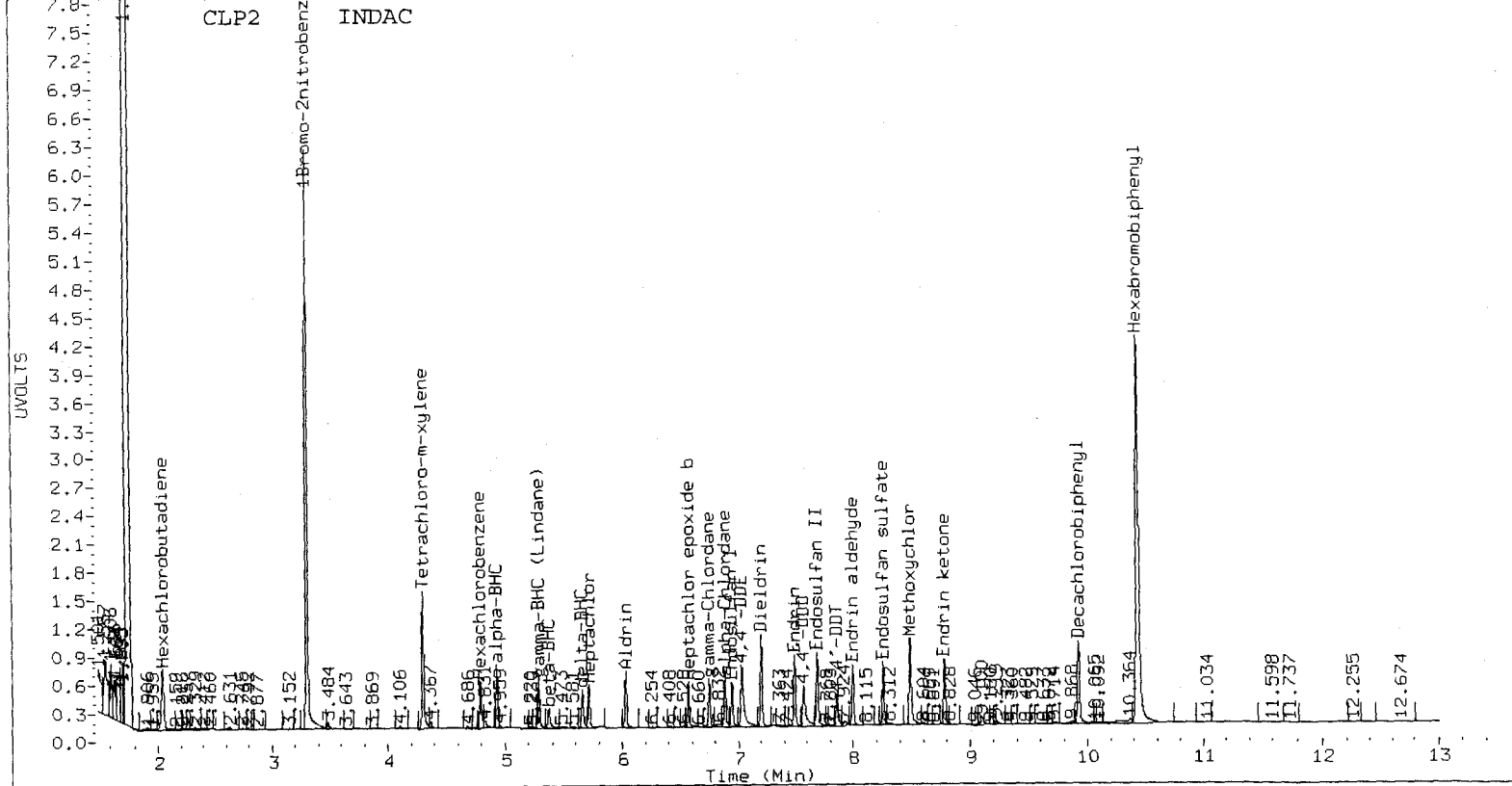
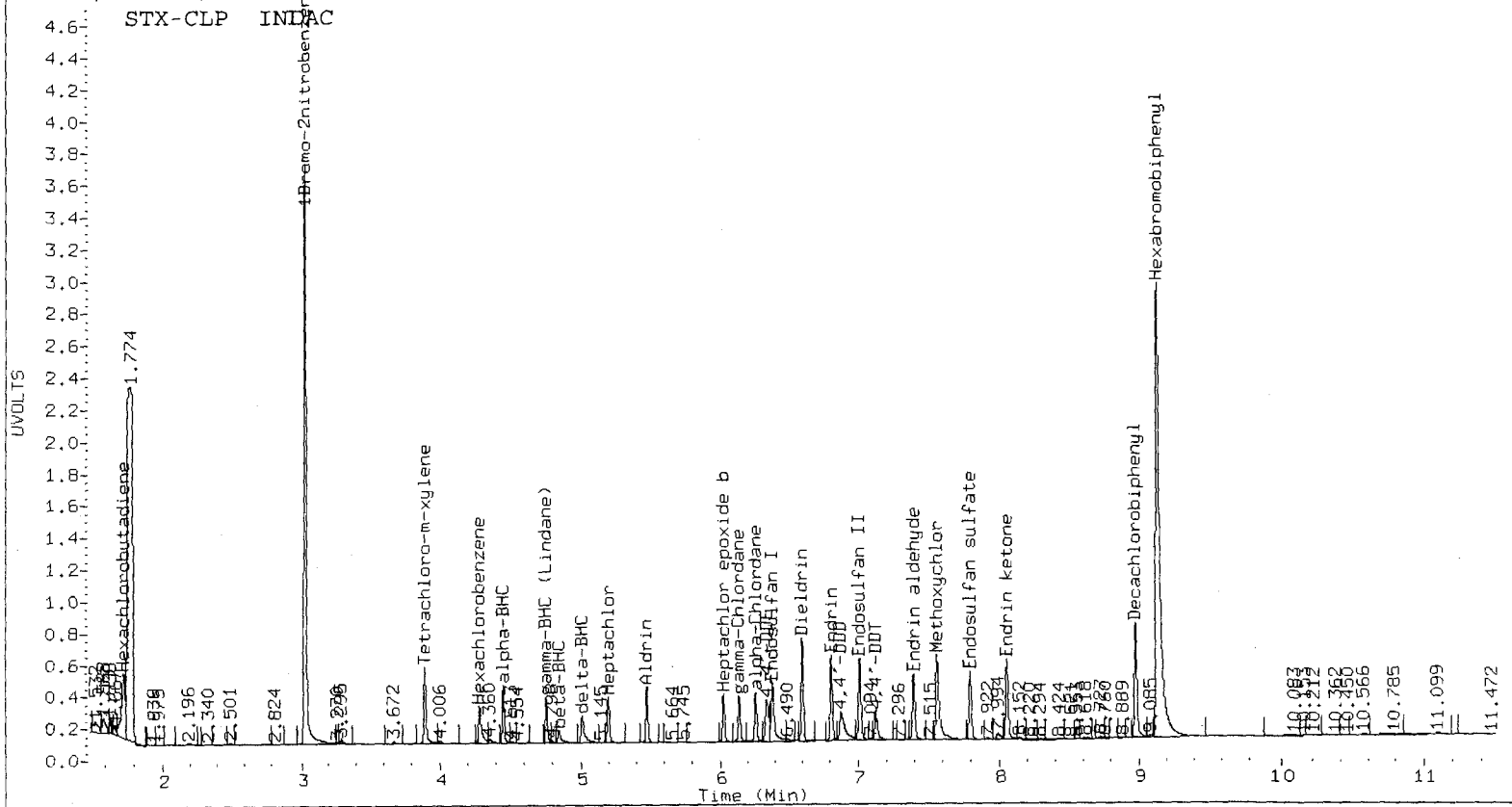
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 874235 | 4.5 |
| Hexabromobiphenyl | 1091107 | 1210916 | 11.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1357862 | 8.7 |
| Hexabromobiphenyl | 1339634 | 1497654 | 11.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A010.d ARI ID: INDAD
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A010.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 16:28
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP CLP2 | | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|--------------|---------|------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.029 | -0.001 | 860198 | 3.295 | -0.001 | 1348234 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.452 | -0.001 | 160119 | 4.928 | -0.001 | 272779 | 9.6936 | 9.7220 | 0.3 | alpha-BHC A B |
| 4.847 | 0.001 | 61589 | 5.367 | 0.001 | 112686 | 9.6861 | 9.6313 | 0.6 | beta-BHC A B |
| 5.011 | 0.000 | 122260 | 5.654 | 0.001 | 194025 | 9.3104 | 9.3727 | 0.7 | delta-BHC A B |
| 4.755 | -0.001 | 126812 | 5.282 | 0.000 | 225296 | 9.4451 | 9.6129 | 1.8 | gamma-BHC (Lindane) A B |
| 5.200 | -0.001 | 128946 | 5.713 | 0.000 | 211844 | 9.7387 | 9.9311 | 2.0 | Heptachlor A B |
| 5.476 | -0.001 | 152346 | 6.028 | 0.000 | 255462 | 9.6738 | 9.7002 | 0.3 | Aldrin A B |
| 6.028 | 0.000 | 136676 | 6.567 | 0.000 | 209641 | 9.6911 | 9.5500 | 1.5 | Heptachlor epoxide b A B |
| 6.385 | 0.000 | 228943 | 6.942 | 0.000 | 202456 | 10.3052 | 9.4913 | 8.2 | Endosulfan I A B |
| 6.601 | 0.000 | 302602 | 7.198 | -0.001 | 443723 | 20.0735 | 19.5632 | 2.6 | Dieldrin A B |
| 6.343 | 0.007 | 186729 | 7.026 | 0.003 | 473035 | 15.4896 | 18.9014 | 19.8 | 4,4'-DDE A B |
| 6.812 | 0.000 | 245959 | 7.489 | -0.001 | 341328 | 19.0555 | 19.5669 | 2.6 | Endrin A B |
| 7.016 | 0.001 | 254245 | 7.686 | -0.001 | 370002 | 19.1548 | 19.9111 | 3.9 | Endosulfan II A B |
| 6.881 | 0.007 | 186349 | 7.568 | 0.004 | 306819 | 17.7350 | 19.3348 | 8.6 | 4,4'-DDD A B |
| 7.796 | 0.000 | 206145 | 8.258 | 0.000 | 304123 | 18.5755 | 19.4802 | 4.8 | Endosulfan sulfate A B |
| 7.127 | 0.004 | 133354 | 7.860 | 0.002 | 189570 | 18.7209 | 19.1554 | 2.3 | 4,4'-DDT A B |
| 7.564 | 0.003 | 379932 | 8.489 | 0.001 | 501245 | 93.9686 | 99.1959 | 5.4 | Methoxychlor A B |
| 8.057 | 0.000 | 250382 | 8.780 | 0.000 | 332240 | 18.1450 | 19.7043 | 8.2 | Endrin ketone A B |
| 7.396 | 0.001 | 199885 | 7.998 | 0.000 | 304041 | 18.9227 | 19.3474 | 2.2 | Endrin aldehyde A B |
| 6.142 | 0.000 | 135188 | 6.745 | 0.000 | 227692 | 9.5769 | 9.6412 | 0.7 | gamma-Chlordane A B |
| 6.262 | 0.000 | 139821 | 6.881 | 0.000 | 223363 | 9.6074 | 9.4238 | 1.9 | alpha-Chlordane A B |
| 1.727 | -0.001 | 242805 | 2.036 | -0.001 | 398207 | 9.2524 | 9.3461 | 1.0 | Hexachlorobutadiene A BM |
| 4.287 | 0.000 | 143298 | 4.791 | 0.000 | 239956 | 9.5032 | 9.3273 | 1.9 | Hexachlorobenzene A B |
| 9.138 | 0.000 | 1188090 | 10.433 | -0.001 | 1464302 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 | 233425 | 4.298 | -0.001 | 626276 | 19.1703 | 19.3268 | 0.8 | Tetrachloro-m-xylene A B |
| 8.980 | 0.000 | 369918 | 9.922 | 0.001 | 460858 | 18.4275 | 18.7237 | 1.6 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 47.9 | 48.3 | 47.9~ | 85-115 |
| Decachlorobiphenyl | 46.1 | 46.8 | 46.1~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 860198 | 2.8 |
| Hexabromobiphenyl | 1091107 | 1188090 | 8.9 |

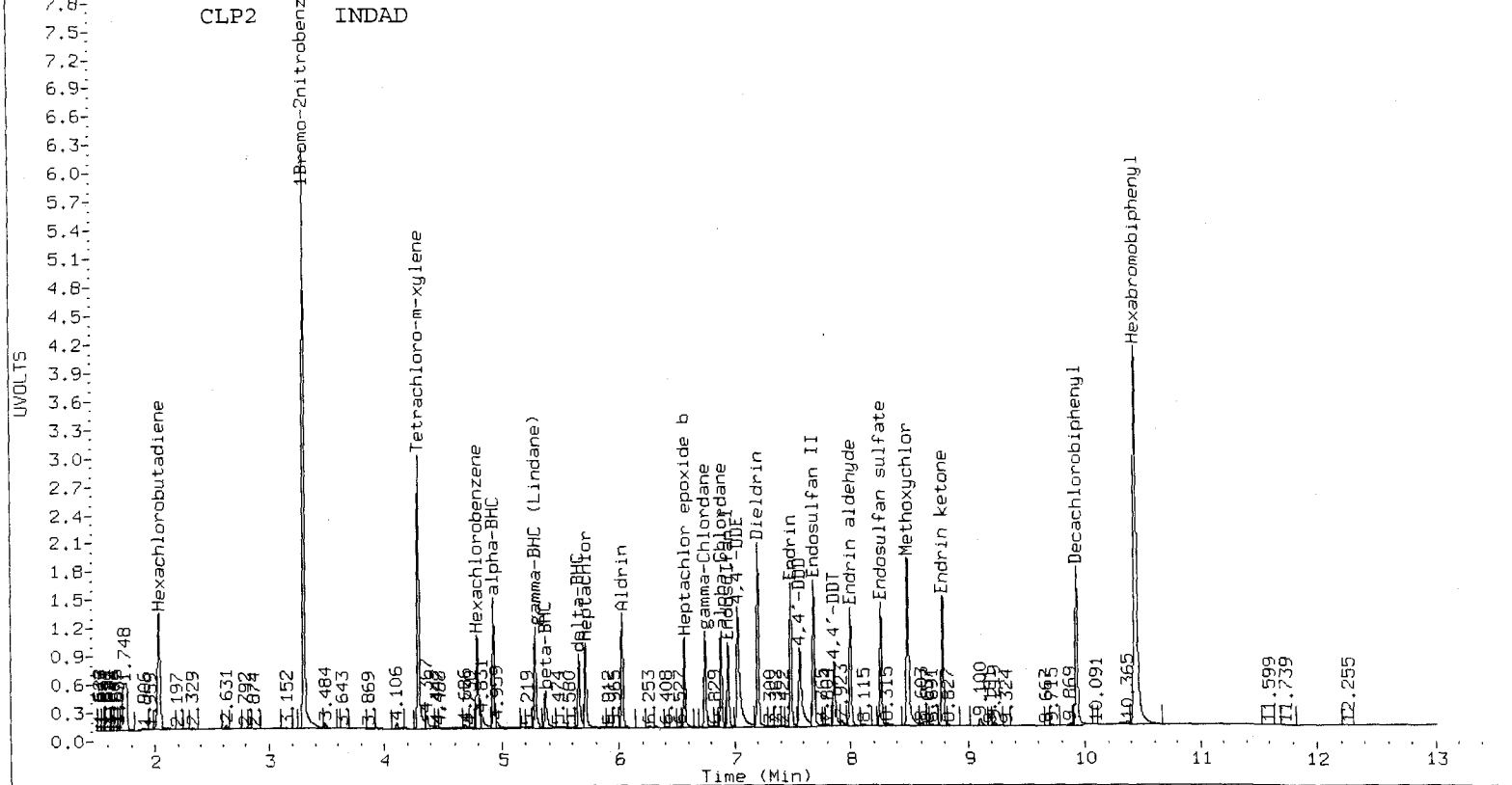
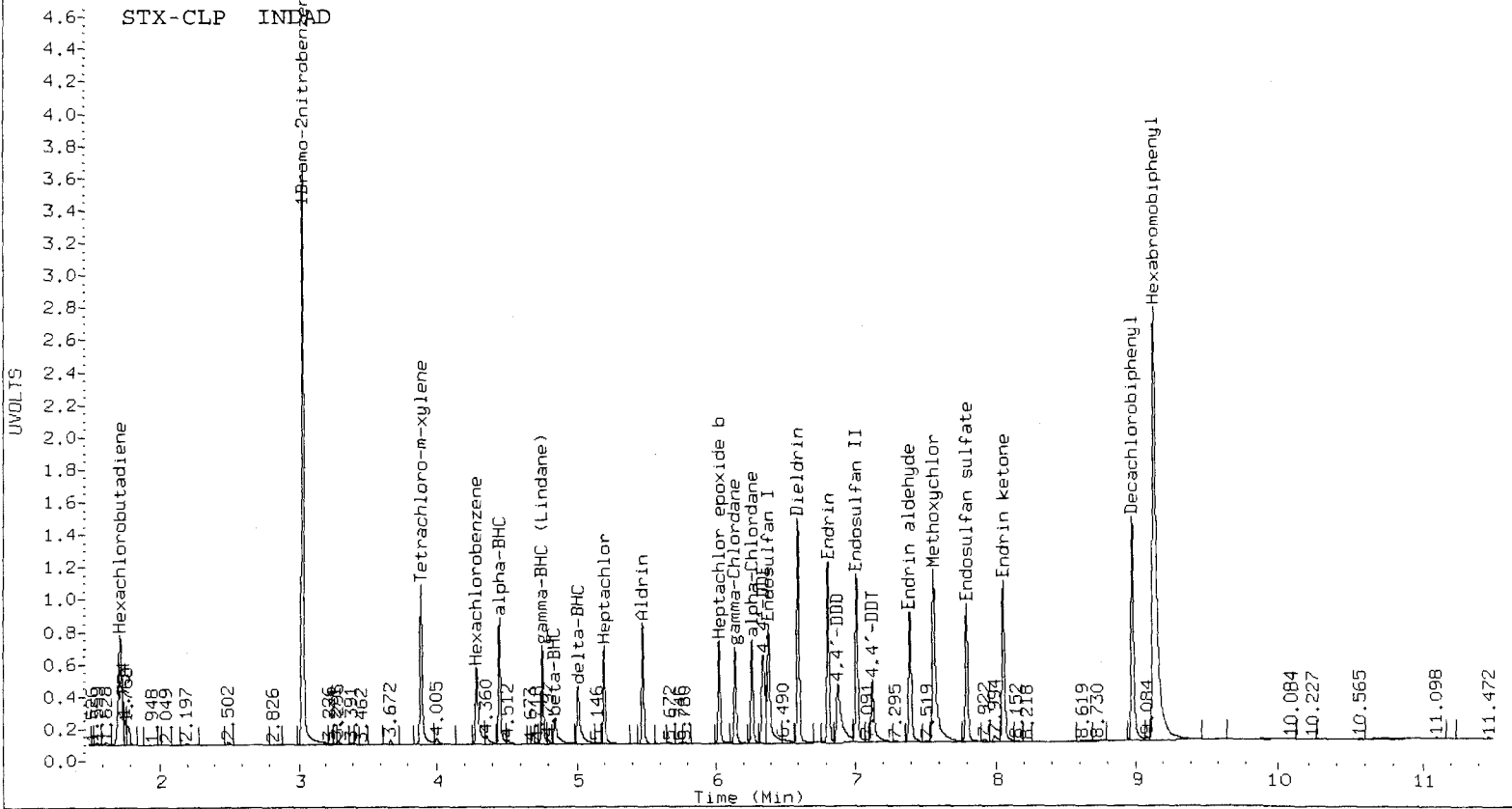
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1348234 | 8.0 |
| Hexabromobiphenyl | 1339634 | 1464302 | 9.3 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A011.d ARI ID: INDAF
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A011.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 16:47
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-----|--------------------------|
| 3.029 | -0.001 893087 | 3.296 -0.001 1357917 | 3.296 | -0.001 1357917 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.453 | 0.000 771385 | 4.929 0.000 1164761 | 4.929 | 0.000 1164761 | 44.9799 | 41.2168 | 8.7 | alpha-BHC A B |
| 4.846 | 0.000 244908 | 5.367 0.001 446476 | 5.367 | 0.001 446476 | 37.0984 | 37.8883 | 2.1 | beta-BHC A B |
| 5.011 | 0.001 612776 | 5.654 0.001 882569 | 5.654 | 0.001 882569 | 44.9457 | 42.3298 | 6.0 | delta-BHC A B |
| 4.755 | 0.000 605193 | 5.283 0.000 955882 | 5.283 | 0.000 955882 | 43.4153 | 40.4945 | 7.0 | gamma-BHC (Lindane) A B |
| 5.201 | 0.000 586829 | 5.714 0.000 857238 | 5.714 | 0.000 857238 | 42.6884 | 39.9001 | 6.8 | Heptachlor A B |
| 5.477 | 0.000 714575 | 6.029 0.001 1076504 | 6.029 | 0.001 1076504 | 43.7037 | 40.5848 | 7.4 | Aldrin A B |
| 6.029 | 0.001 605557 | 6.568 0.001 844040 | 6.568 | 0.001 844040 | 41.3561 | 38.1754 | 8.0 | Heptachlor epoxide b A B |
| 6.385 | 0.001 872271 | 6.943 0.000 835683 | 6.943 | 0.000 835683 | 37.8168 | 38.8981 | 2.8 | Endosulfan I A B |
| 6.602 | 0.001 1303586 | 7.200 0.001 1799063 | 7.200 | 0.001 1799063 | 83.2906 | 78.7529 | 5.6 | Dieldrin A B |
| 6.339 | 0.003 1122077 | 7.025 0.002 2066932 | 7.025 | 0.002 2066932 | 81.3929 | 82.0010 | 0.7 | 4,4'-DDE A B |
| 6.813 | 0.001 1104330 | 7.490 0.000 1398097 | 7.490 | 0.000 1398097 | 83.9237 | 76.0067 | 9.9 | Endrin A B |
| 7.016 | 0.001 1090311 | 7.686 0.000 1502885 | 7.686 | 0.000 1502885 | 80.5755 | 76.6974 | 4.9 | Endosulfan II A B |
| 6.877 | 0.003 800939 | 7.566 0.002 1255067 | 7.566 | 0.002 1255067 | 74.7706 | 75.0047 | 0.3 | 4,4'-DDD A B |
| 7.796 | 0.000 922879 | 8.259 0.000 1280823 | 8.259 | 0.000 1280823 | 81.5719 | 77.8032 | 4.7 | Endosulfan sulfate A B |
| 7.125 | 0.002 670592 | 7.859 0.001 942700 | 7.859 | 0.001 942700 | 92.3434 | 90.3357 | 2.2 | 4,4'-DDT A B |
| 7.563 | 0.002 1724904 | 8.489 0.001 2132946 | 8.489 | 0.001 2132946 | 418.4746 | 400.3023 | 4.4 | Methoxychlor A B |
| 8.057 | 0.000 1039726 | 8.781 0.000 1368926 | 8.781 | 0.000 1368926 | 73.9094 | 76.9932 | 4.1 | Endrin ketone A B |
| 7.397 | 0.001 856694 | 7.998 0.000 1223726 | 7.998 | 0.000 1223726 | 79.5529 | 73.8481 | 7.4 | Endrin aldehyde A B |
| 6.143 | 0.001 610381 | 6.747 0.001 948695 | 6.747 | 0.001 948695 | 41.6479 | 39.8842 | 4.3 | gamma-Chlordane A B |
| 6.263 | 0.001 623544 | 6.882 0.001 943909 | 6.882 | 0.001 943909 | 41.2673 | 39.5402 | 4.3 | alpha-Chlordane A B |
| 1.728 | 0.000 1050737 | 2.036 -0.001 1615344 | 2.036 | -0.001 1615344 | 38.5652 | 37.6426 | 2.4 | Hexachlorobutadiene A B |
| 4.287 | 0.000 607655 | 4.791 0.000 969201 | 4.791 | 0.000 969201 | 38.8142 | 37.4050 | 3.7 | Hexachlorobenzene A B |
| 9.138 | 0.000 1211217 | 10.433 0.000 1544067 | 10.433 | 0.000 1544067 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | 0.000 1021192 | 4.299 0.000 2518141 | 4.299 | 0.000 2518141 | 80.7779 | 77.1556 | 4.6 | Tetrachloro-m-xylene A B |
| 8.981 | 0.001 1548060 | 9.922 0.001 1831237 | 9.922 | 0.001 1831237 | 75.6442 | 70.5561 | 7.0 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 201.9 | 192.9 | 192.9~ | 85-115 |
| Decachlorobiphenyl | 189.1 | 176.4 | 176.4~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 893087 | 6.8 |
| Hexabromobiphenyl | 1091107 | 1211217 | 11.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1357917 | 8.8 |
| Hexabromobiphenyl | 1339634 | 1544067 | 15.3 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A012.d ARI ID: IDNAG
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A012.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 17:06
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|--------------------------|
| 3.029 | -0.001 878201 | 3.296 -0.001 1350929 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.453 | 0.000 1620398 | 4.929 0.000 2311478 | 96.0879 | 82.2182 | 15.6 | alpha-BHC A B |
| 4.846 | 0.000 492660 | 5.366 0.000 879673 | 75.8926 | 75.0358 | 1.1 | beta-BHC A B |
| 5.011 | 0.000 1337229 | 5.653 0.000 1801798 | 99.7453 | 86.8648 | 13.8 | delta-BHC A B |
| 4.755 | 0.000 1269047 | 5.283 0.000 1905960 | 92.5821 | 81.1609 | 13.1 | gamma-BHC (Lindane) A B |
| 5.201 | 0.000 1205503 | 5.713 0.000 1641236 | 89.1797 | 76.7864 | 14.9 | Heptachlor A B |
| 5.477 | 0.000 1479994 | 6.028 0.000 2122025 | 92.0513 | 80.4153 | 13.5 | Aldrin A B |
| 6.028 | 0.000 1235125 | 6.567 0.000 1645929 | 85.7818 | 74.8294 | 13.6 | Heptachlor epoxide b A B |
| 6.385 | 0.000 1584803 | 6.942 0.000 1636879 | 69.8729 | 76.5851 | 9.2 | Endosulfan I A B |
| 6.601 | 0.000 2641180 | 7.199 0.000 3484640 | 171.6145 | 153.3271 | 11.3 | Dieldrin A B |
| 6.336 | 0.000 2596728 | 7.023 0.000 4068405 | 159.7559 | 162.2400 | 1.5 | 4,4'-DDE A B |
| 6.812 | 0.000 2259416 | 7.490 0.000 2716376 | 181.0557 | 149.0759 | 19.4 | Endrin A B |
| 7.015 | 0.000 2181207 | 7.686 0.000 2860846 | 169.9729 | 147.3846 | 14.2 | Endosulfan II A B |
| 6.874 | 0.000 1666967 | 7.564 0.000 2453269 | 164.0927 | 148.0027 | 10.3 | 4,4'-DDD A B |
| 7.796 | 0.000 1896653 | 8.258 0.000 2546892 | 176.7722 | 156.1787 | 12.4 | Endosulfan sulfate A B |
| 7.123 | 0.000 1431195 | 7.858 0.000 1990621 | 207.8149 | 192.5650 | 7.6 | 4,4'-DDT A B |
| 7.561 | 0.000 3641575 | 8.487 0.000 4304884 | 931.5881 | 815.5914 | 13.3 | Methoxychlor A B |
| 8.057 | 0.000 2076680 | 8.780 0.000 2691574 | 155.6614 | 152.8206 | 1.8 | Endrin ketone A B |
| 7.396 | 0.000 1730531 | 7.999 0.000 2380194 | 169.4495 | 145.0008 | 15.6 | Endrin aldehyde A B |
| 6.142 | 0.000 1275557 | 6.746 0.000 1894777 | 88.5099 | 80.0705 | 10.0 | gamma-Chlordane A B |
| 6.262 | 0.000 1304395 | 6.882 0.000 1882452 | 87.7905 | 79.2636 | 10.2 | alpha-Chlordane A B |
| 1.728 | 0.000 2323402 | 2.037 0.000 3203415 | 86.7213 | 75.0359 | 14.4 | Hexachlorobutadiene A BM |
| 4.287 | 0.000 1261511 | 4.791 0.000 1912998 | 81.9453 | 74.2114 | 9.9 | Hexachlorobenzene A B |
| 9.137 | -0.001 1148660 | 10.432 -0.002 1529548 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.897 | 0.000 2087470 | 4.299 0.000 4841084 | 167.9211 | 149.0976 | 11.9 | Tetrachloro-m-xylene A |
| 8.980 | 0.000 3100686 | 9.921 0.000 3545811 | 159.7630 | 137.9141 | 14.7 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 419.8 | 372.7 | 372.7~ | 85-115 |
| Decachlorobiphenyl | 399.4 | 344.8 | 344.8~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 878201 | 5.0 |
| Hexabromobiphenyl | 1091107 | 1148660 | 5.3 |

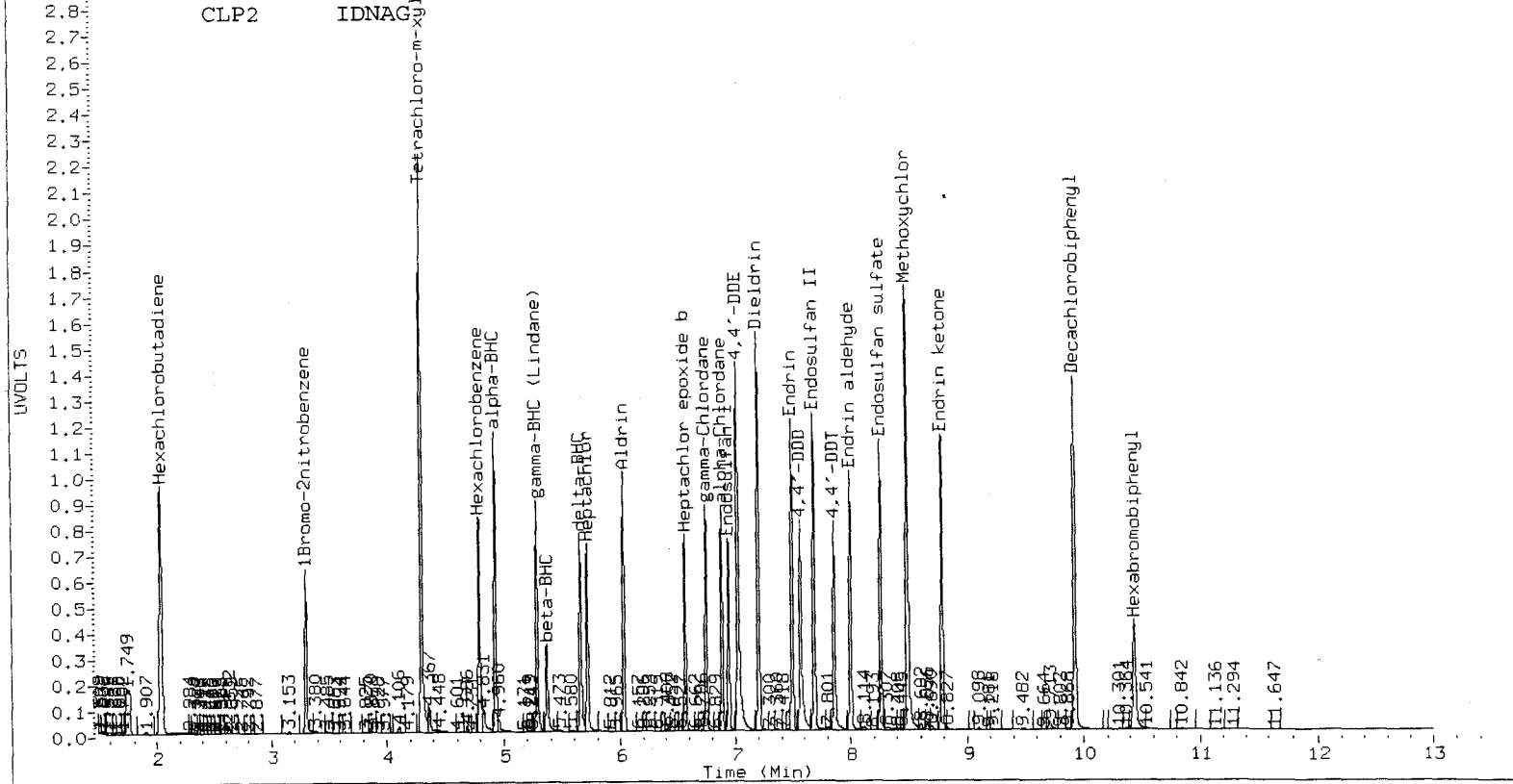
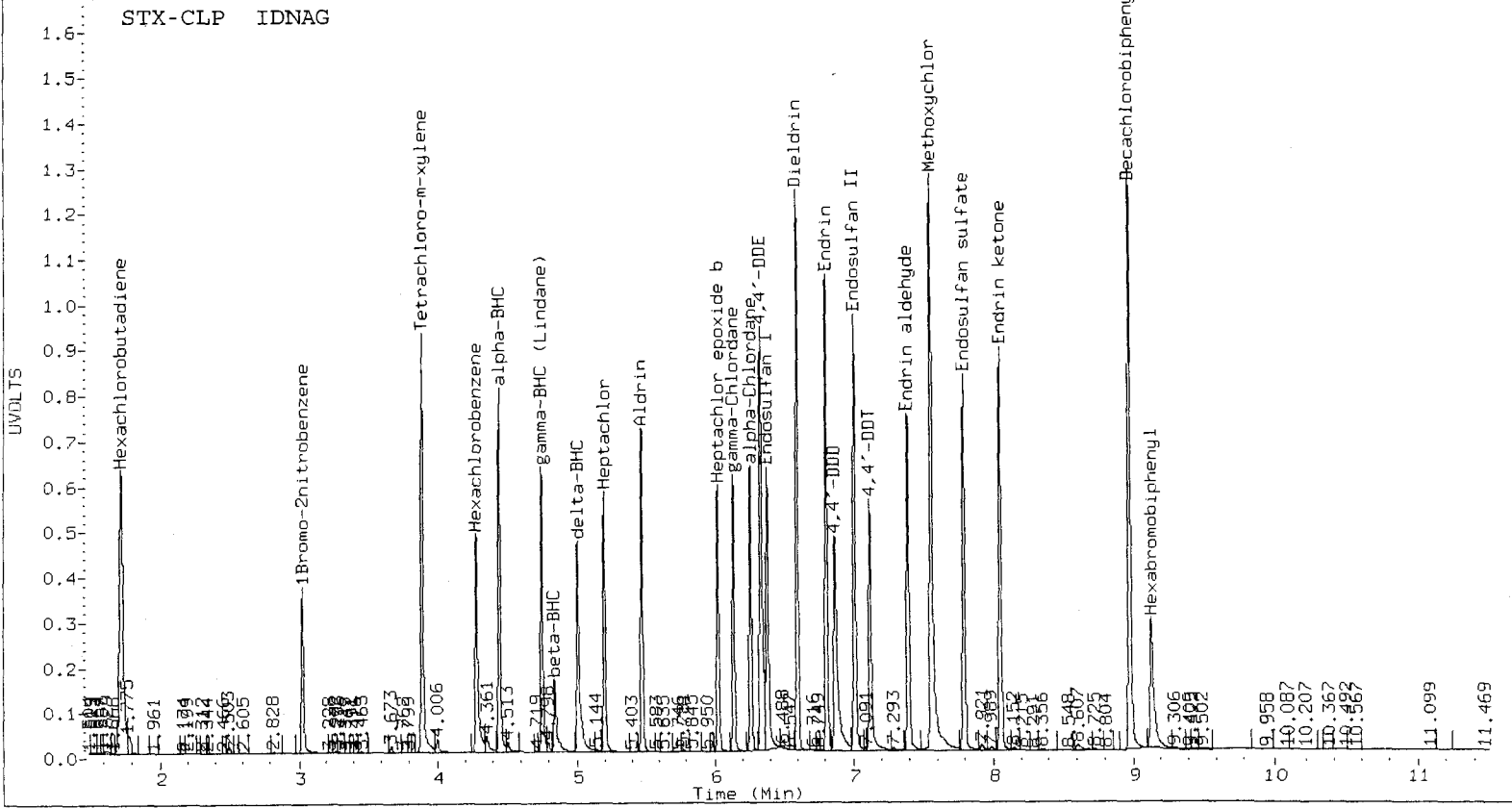
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1350929 | 8.2 |
| Hexabromobiphenyl | 1339634 | 1529548 | 14.2 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A015.d ARI ID: TOXAPH 2500
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A015.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 18:02
 Compound Sublist: TOXAPH Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|-----|--------------------------|
| 3.028 | -0.002 916675 | 3.294 -0.002 1457356 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 9.139 | 0.000 1213703 | 10.432 -0.001 1606848 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.895 | -0.002 428478 | 4.297 -0.002 1133580 | 33.0211 | 32.3629 | 2.0 | Tetrachloro-m-xylene A B |
| 8.980 | -0.001 725410 | 9.921 0.000 873970 | 35.3737 | 32.3577 | 8.9 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 82.6 | 80.9 | 80.9 | 0-110 |
| Decachlorobiphenyl | 88.4 | 80.9 | 80.9 | 0-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 916675 | 9.6 |
| Hexabromobiphenyl | 1091107 | 1213703 | 11.2 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1457356 | 16.7 |
| Hexabromobiphenyl | 1339634 | 1606848 | 19.9 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|----------|----------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 7.068 | 0.000 | 1523624 | 2500.000 | 1 | 7.759 | 0.000 | 2365245 | 2500.000 | | |
| Toxaphene | 2 | 7.119 | 0.000 | 1062718 | 2500.000 | 2 | 8.002 | 0.000 | 2609268 | 2500.000 | | |
| Toxaphene | 3 | 7.523 | 0.000 | 962854 | 2500.000 | 3 | 8.254 | 0.000 | 1121826 | 2500.000 | | |
| Toxaphene | 4 | 7.705 | 0.000 | 1602672 | 2500.000 | 4 | 8.496 | 0.000 | 2196199 | 2500.000 | | |
| Toxaphene | 5 | 7.750 | 0.000 | 1250930 | 2500.000 | 5 | 9.040 | 0.000 | 846765 | 2500.000 | | |
| Toxaphene | 6 | 8.038 | 0.000 | 906765 | 2500.000 | NS | --- | | ---- | | | |
| Total STX-CLPAve (6 peaks): | | | | | 2500.000 | Total CLP2Ave (5 peaks): | | | | | 2500.000 | RPD = 0 |
| Corrected Ave (6 peaks): | | | | | 2500.000 | Corrected Ave (5 peaks): | | | | | 2500.000 | RPD = 0 |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A016.d ARI ID: WNDE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A016.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 18:21
 Compound Sublist: WND Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|-------------------|----------------|-----|--------------------------|
| 1.765 | -0.003 3156 | 1.747 -0.004 763948 | 1.747 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.028 | -0.001 834385 | 3.295 -0.002 1356458 | 3.295 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.936 | -0.002 469978 | 6.480 -0.002 701860 | 6.480 | 40.9186 | 40.2388 | 1.7 | Oxychlorthane A B |
| 6.027 | 0.000 377046 | 6.735 -0.001 609285 | 6.735 | 41.5840 | 40.6526 | 2.3 | 2,4-DDE A B |
| 6.247 | -0.002 531042 | 6.829 -0.002 864245 | 6.829 | 40.8165 | 39.0167 | 4.5 | trans-Nonachlor A B |
| 6.492 | 0.001 261710 | 7.215 0.000 452031 | 7.215 | 40.4268 | 38.9356 | 3.8 | 2,4-DDD A B |
| 6.717 | -0.001 267104 | 7.501 -0.002 408690 | 7.501 | 41.0329 | 39.9304 | 2.7 | 2,4-DDT A B |
| 6.842 | -0.002 614069 | 7.555 -0.002 966388 | 7.555 | 41.3968 | 40.2609 | 2.8 | cis-Nonachlor A B |
| 7.707 | -0.003 340229 | 8.758 -0.002 580025 | 8.758 | 38.6426 | 37.4656 | 3.1 | Mirex A B |
| 9.137 | -0.002 1140256 | 10.431 -0.002 1506571 | 10.431 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 392182 | 4.297 -0.001 1033712 | 4.297 | 33.2047 | 31.7069 | 4.6 | Tetrachloro-m-xylene A B |
| 8.979 | -0.001 646500 | 9.921 0.000 815816 | 9.921 | 33.5565 | 32.2150 | 4.1 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 83.0 | 79.3 | 79.3 | 29-110 |
| Decachlorobiphenyl | 83.9 | 80.5 | 80.5 | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 834385 | -0.2 |
| Hexabromobiphenyl | 1091107 | 1140256 | 4.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1356458 | 8.6 |
| Hexabromobiphenyl | 1339634 | 1506571 | 12.5 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A017.d ARI ID: WNDA
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A017.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 18:40
 Compound Sublist: WND Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP CLP2 | | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|--------------|---------|-----|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 1.774 | 0.005 | 13763 | 1.751 | -0.001 | 3479251 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.029 | -0.001 | 917368 | 3.296 | -0.001 | 1508923 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.936 | -0.003 | 31820 | 6.479 | -0.003 | 51660 | 2.4859 | 2.6625 | 6.9 | Oxychlorane A B |
| 6.027 | 0.000 | 25807 | 6.735 | -0.001 | 44765 | 2.5540 | 2.6850 | 5.0 | 2,4-DDE A B |
| 6.247 | -0.002 | 37372 | 6.829 | -0.002 | 67068 | 2.5775 | 2.7523 | 6.6 | trans-Nonachlor A B |
| 6.493 | 0.002 | 19808 | 7.216 | 0.001 | 37535 | 2.7456 | 2.9388 | 6.8 | 2,4-DDD A B |
| 6.718 | 0.000 | 18488 | 7.501 | -0.001 | 29457 | 2.5485 | 2.6161 | 2.6 | 2,4-DDT A B |
| 6.843 | -0.002 | 38705 | 7.554 | -0.003 | 67494 | 2.3413 | 2.5560 | 8.8 | cis-Nonachlor A B |
| 7.707 | -0.002 | 29456 | 8.757 | -0.002 | 52558 | 3.0020 | 3.0859 | 2.8 | Mirex A B |
| 9.135 | -0.003 | 1270740 | 10.430 | -0.003 | 1657404 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | 0.000 | 26365 | 4.298 | -0.001 | 72980 | 2.0303 | 2.0123 | 0.9 | Tetrachloro-m-xylene A B |
| 8.979 | -0.001 | 52472 | 9.921 | 0.000 | 68295 | 2.4439 | 2.4514 | 0.3 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 5.1 | 5.0 | 5.0~ | 29-110 |
| Decachlorobiphenyl | 6.1 | 6.1 | 6.1~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 917368 | 9.7 |
| Hexabromobiphenyl | 1091107 | 1270740 | 16.5 |

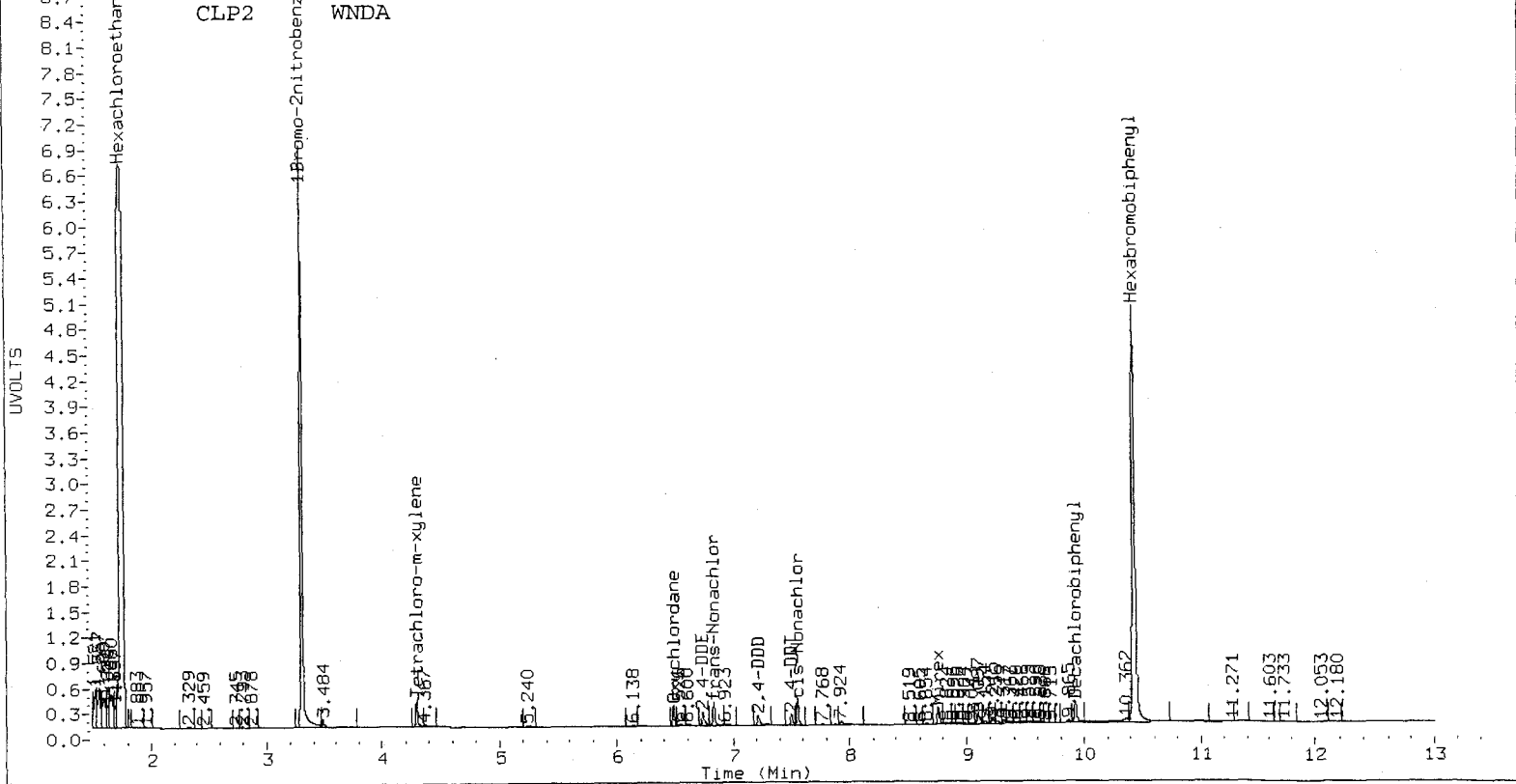
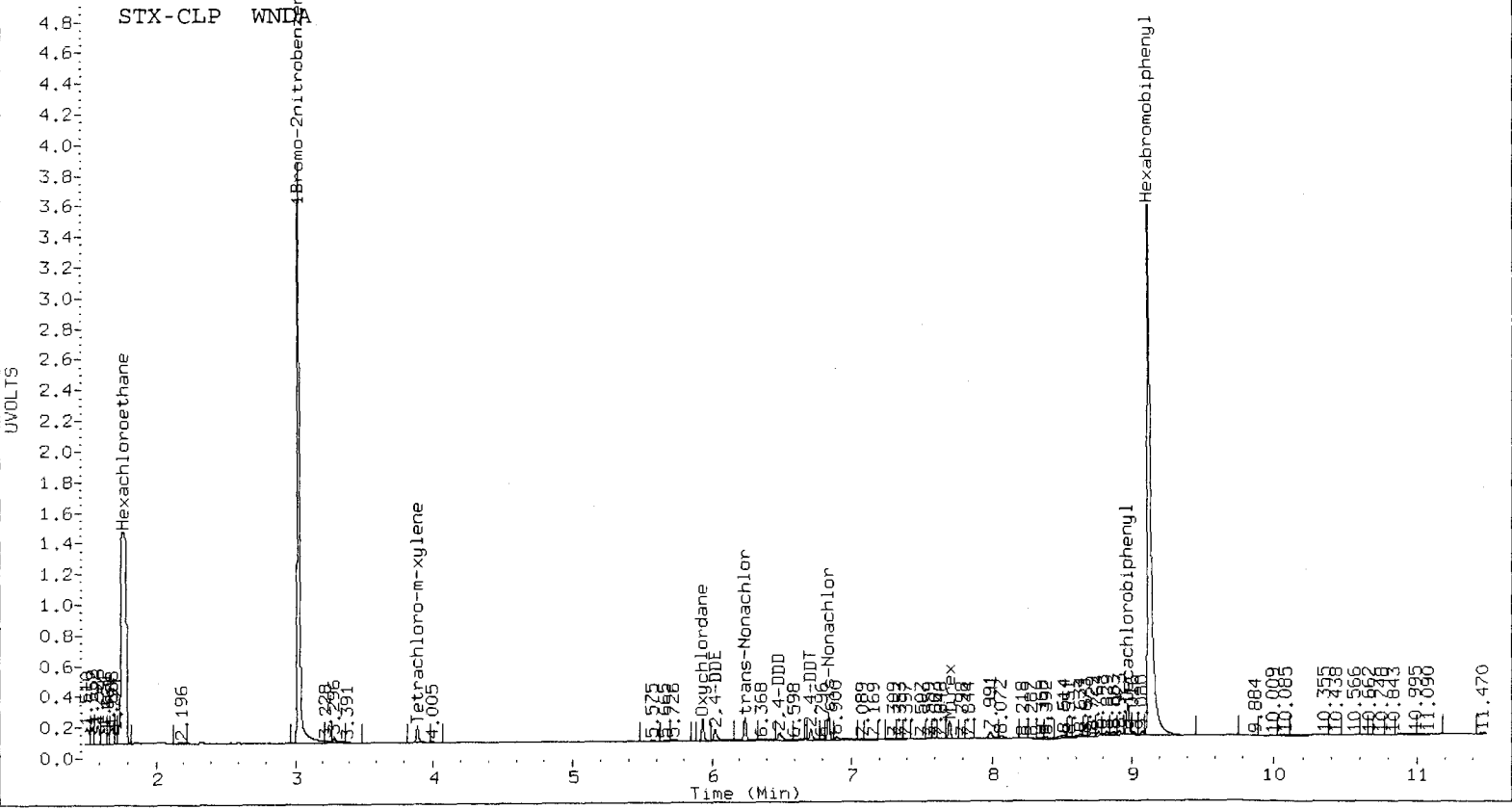
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1508923 | 20.8 |
| Hexabromobiphenyl | 1339634 | 1657404 | 23.7 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A018.d ARI ID: WNDB
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A018.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 18:59
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|--------------------------|
| 1.763 | -0.005 970 | 1.749 -0.003 195630 | 1.749 | -0.003 195630 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.029 | -0.001 954109 | 3.295 -0.001 1572890 | 3.295 | -0.001 1572890 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.937 | -0.002 65071 | 6.480 -0.002 103723 | 6.480 | -0.002 103723 | 4.8313 | 5.1283 | 6.0 | Oxychlorane A B |
| 6.028 | 0.001 51781 | 6.736 0.000 89936 | 6.736 | 0.000 89936 | 4.8701 | 5.1750 | 6.1 | 2,4-DDE A B |
| 6.248 | -0.001 73091 | 6.830 -0.002 135254 | 6.830 | -0.002 135254 | 4.7907 | 5.2935 | 10.0 | trans-Nonachlor A B |
| 6.495 | 0.004 40562 | 7.216 0.001 71973 | 7.216 | 0.001 71973 | 5.3432 | 5.3744 | 0.6 | 2,4-DDD A B |
| 6.719 | 0.001 37466 | 7.502 -0.001 58064 | 7.502 | -0.001 58064 | 4.9082 | 4.9181 | 0.2 | 2,4-DDT A B |
| 6.843 | -0.001 79355 | 7.555 -0.002 138328 | 7.555 | -0.002 138328 | 4.5620 | 4.9960 | 9.1 | cis-Nonachlor A B |
| 7.708 | -0.002 53536 | 8.758 -0.001 93313 | 8.758 | -0.001 93313 | 5.1853 | 5.2253 | 0.8 | Mirex A B |
| 9.136 | -0.002 1337121 | 10.431 -0.003 1737844 | 10.431 | -0.003 1737844 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 53881 | 4.298 -0.001 149127 | 4.298 | -0.001 149127 | 3.9895 | 3.9447 | 1.1 | Tetrachloro-m-xylene A B |
| 8.980 | 0.000 100513 | 9.922 0.000 132550 | 9.922 | 0.000 132550 | 4.4490 | 4.5376 | 2.0 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 10.0 | 9.9 | 9.9~ | 29-110 |
| Decachlorobiphenyl | 11.1 | 11.3 | 11.1~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 954109 | 14.1 |
| Hexabromobiphenyl | 1091107 | 1337121 | 22.5 |

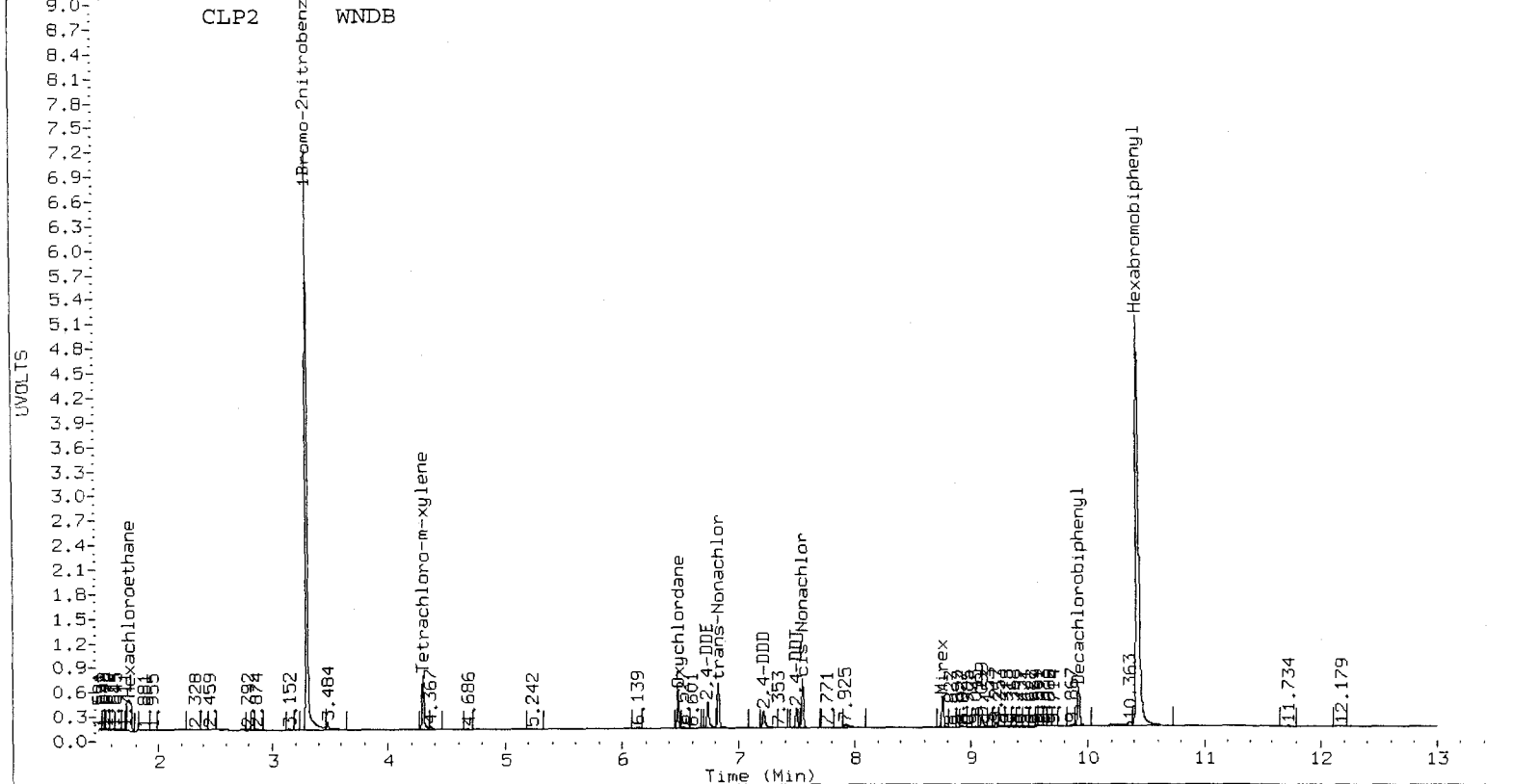
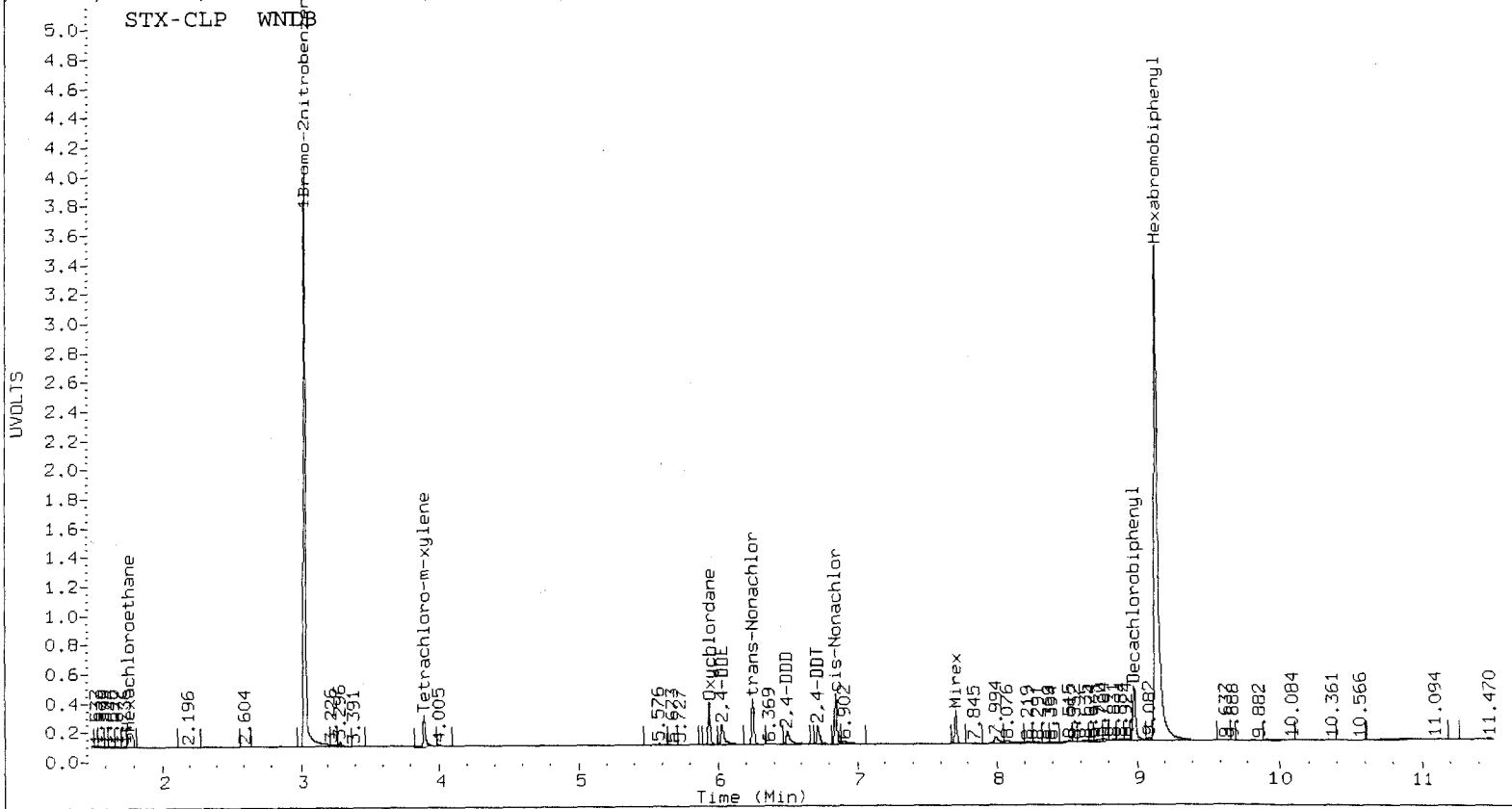
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1572890 | 26.0 |
| Hexabromobiphenyl | 1339634 | 1737844 | 29.7 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A019.d ARI ID: WNDC
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A019.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 19:18
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 1.772 | 0.004 | 15693 | 1.751 | -0.001 | 3809274 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.029 | -0.001 | 1016707 | 3.295 | -0.002 | 1666113 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.937 | -0.002 | 130385 | 6.479 | -0.003 | 205318 | 8.9825 | 9.5835 | 6.5 | Oxychlorane A B |
| 6.028 | 0.001 | 103122 | 6.735 | -0.001 | 176162 | 8.9993 | 9.5693 | 6.1 | 2,4-DDE A B |
| 6.248 | -0.002 | 141599 | 6.829 | -0.003 | 249964 | 8.6118 | 9.3542 | 8.3 | trans-Nonachlor A B |
| 6.494 | 0.003 | 74864 | 7.216 | 0.001 | 137504 | 9.1506 | 9.8177 | 7.0 | 2,4-DDD A B |
| 6.718 | 0.000 | 72190 | 7.501 | -0.002 | 116689 | 8.7752 | 9.4505 | 7.4 | 2,4-DDT A B |
| 6.843 | -0.002 | 161765 | 7.554 | -0.003 | 278056 | 8.6290 | 9.6024 | 10.7 | cis-Nonachlor A B |
| 7.707 | -0.003 | 102390 | 8.758 | -0.002 | 176954 | 9.2020 | 9.4747 | 2.9 | Mirex A B |
| 9.136 | -0.002 | 1441035 | 10.431 | -0.002 | 1817495 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 | 106976 | 4.298 | -0.001 | 295031 | 7.4331 | 7.3676 | 0.9 | Tetrachloro-m-xylene A B |
| 8.979 | -0.001 | 206660 | 9.922 | 0.001 | 257305 | 8.4877 | 8.4223 | 0.8 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 18.6 | 18.4 | 18.4~ | 29-110 |
| Decachlorobiphenyl | 21.2 | 21.1 | 21.1 | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 1016707 | 21.6 |
| Hexabromobiphenyl | 1091107 | 1441035 | 32.1 |

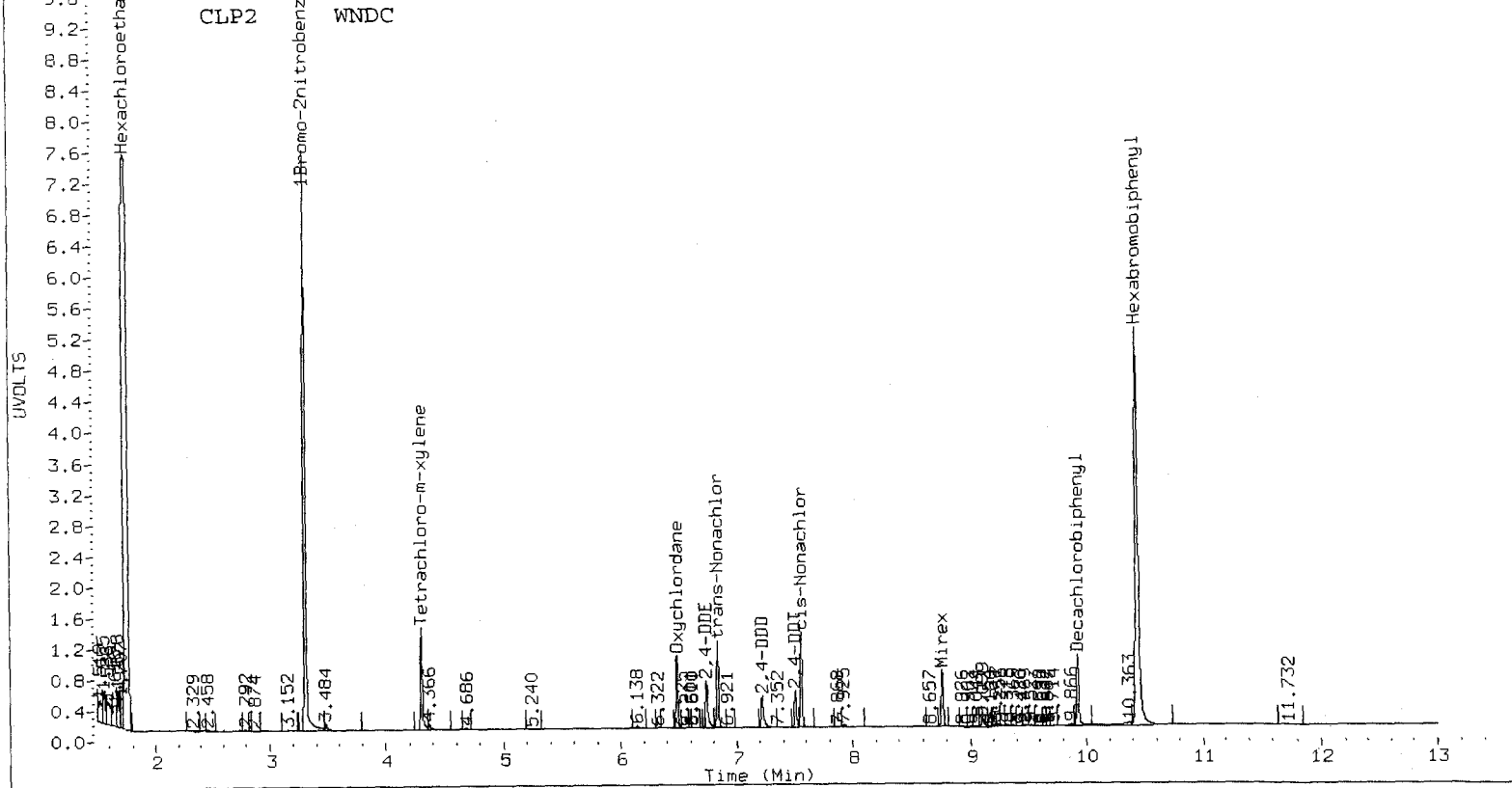
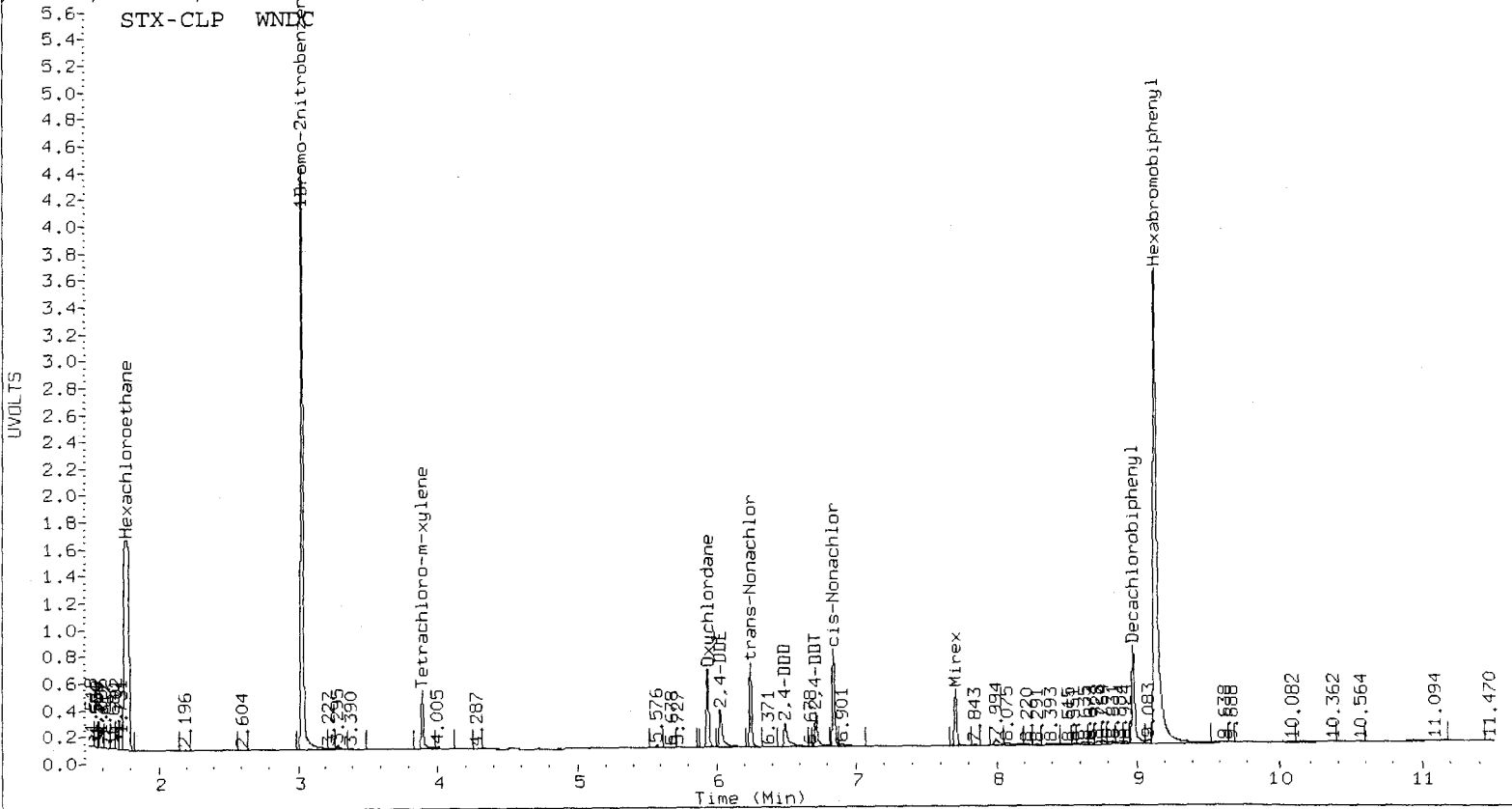
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1666113 | 33.4 |
| Hexabromobiphenyl | 1339634 | 1817495 | 35.7 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A020.d ARI ID: WNDD
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A020.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 19:37
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|-----|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 1.766 | -0.002 | 1462 | 1.749 | -0.003 | 315644 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.030 | 0.000 | 957727 | 3.297 | 0.000 | 1586601 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.939 | 0.000 | 253429 | 6.482 | 0.000 | 393665 | 19.0671 | 19.2957 | 1.2 | Oxychlorane A B |
| 6.029 | 0.002 | 194899 | 6.737 | 0.001 | 335749 | 18.5749 | 19.1523 | 3.1 | 2,4-DDE A B |
| 6.250 | 0.000 | 280908 | 6.831 | 0.000 | 499153 | 18.6576 | 19.5757 | 4.8 | trans-Nonachlor A B |
| 6.496 | 0.004 | 135945 | 7.218 | 0.003 | 256056 | 18.1467 | 19.1594 | 5.4 | 2,4-DDD A B |
| 6.720 | 0.002 | 139797 | 7.504 | 0.001 | 226550 | 18.5582 | 19.2284 | 3.5 | 2,4-DDT A B |
| 6.845 | 0.001 | 327010 | 7.557 | 0.000 | 541637 | 19.0501 | 19.6024 | 2.9 | cis-Nonachlor A B |
| 7.710 | 0.000 | 190155 | 8.760 | 0.001 | 335251 | 18.6633 | 18.8116 | 0.8 | Mirex A B |
| 9.139 | 0.000 | 1319523 | 10.433 | 0.000 | 1734283 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.898 | 0.001 | 208195 | 4.299 | 0.000 | 563747 | 15.3570 | 14.7835 | 3.8 | Tetrachloro-m-xylene A B |
| 8.982 | 0.002 | 362065 | 9.924 | 0.003 | 467926 | 16.2398 | 16.0514 | 1.2 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 38.4 | 37.0 | 37.0 | 29-110 |
| Decachlorobiphenyl | 40.6 | 40.1 | 40.1 | 18-151 |

~ Indicates recovery outside QC Limits

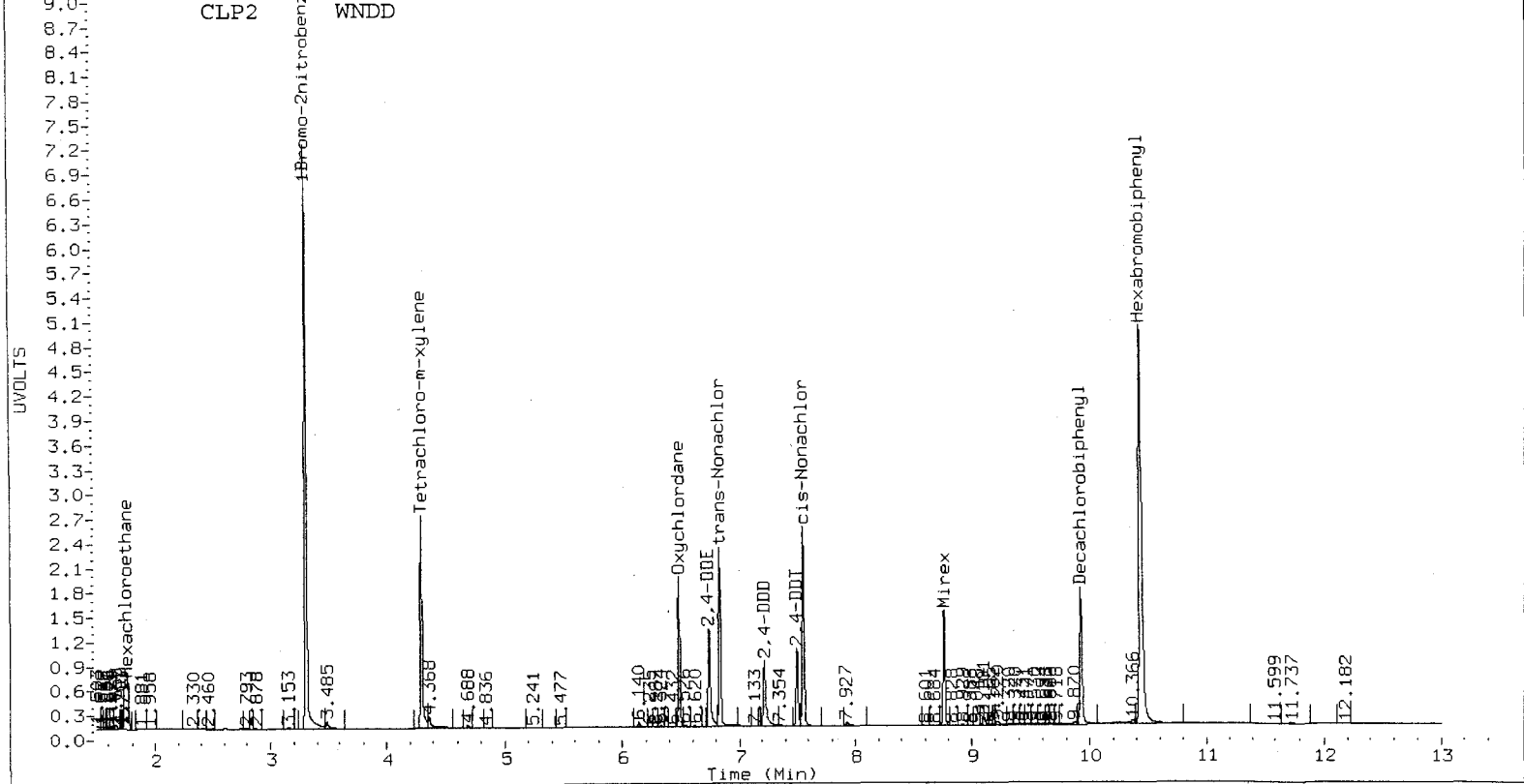
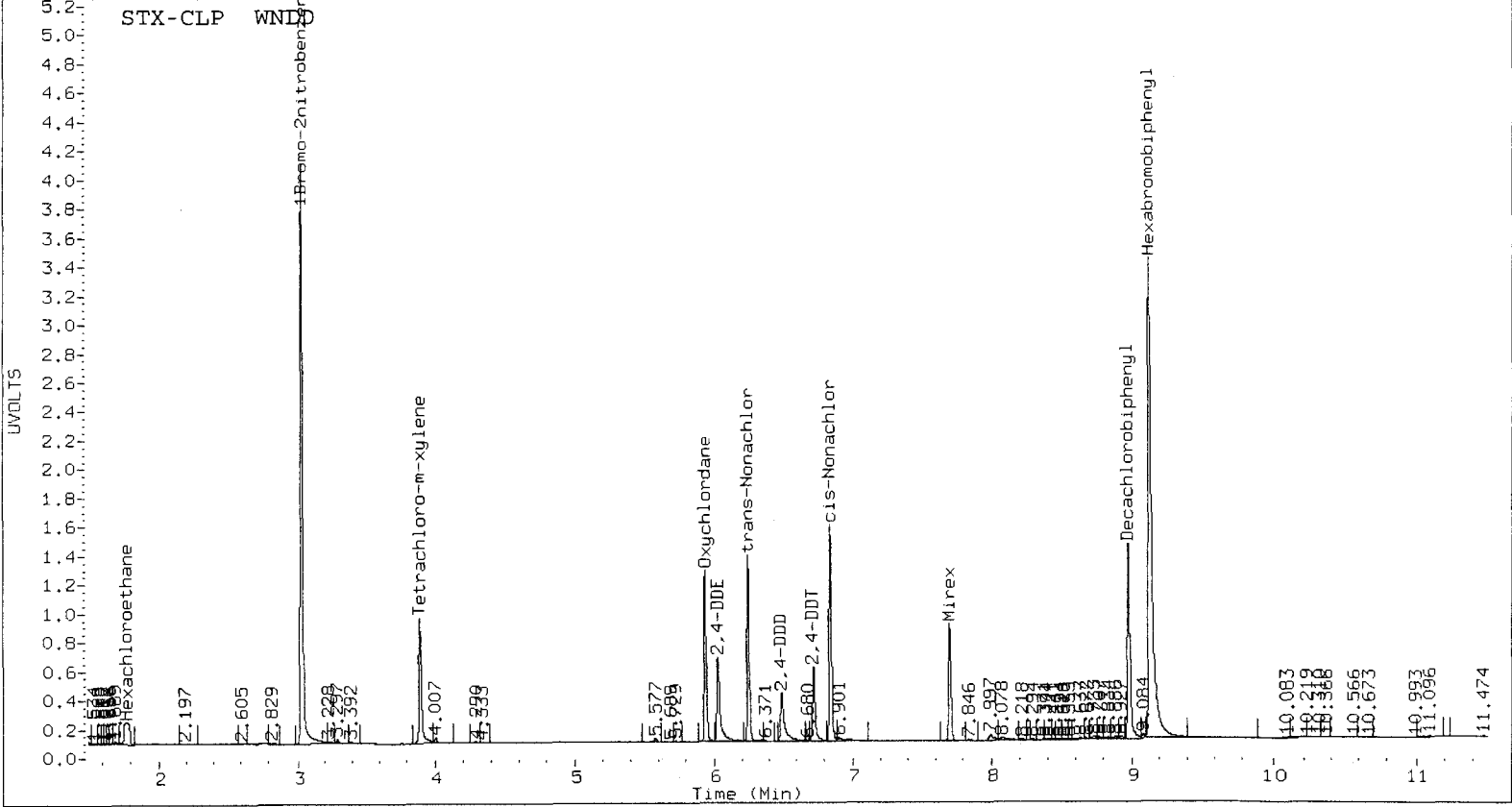
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 957727 | 14.5 |
| Hexabromobiphenyl | 1091107 | 1319523 | 20.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1586601 | 27.1 |
| Hexabromobiphenyl | 1339634 | 1734283 | 29.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A021.d ARI ID: WNDF
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A021.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 19:56
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col | | RT | CLP2 Col | | STX-CLP CLP2 | | RPD | Compound/Flag |
|-------|-------------|----------|--------|----------|----------|--------------|---------|------|--------------------------|
| | Shift | Response | | Shift | Response | on col | on col | | |
| 1.777 | 0.008 | 20363 | 1.754 | 0.002 | 4921648 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.030 | 0.000 | 978714 | 3.297 | 0.000 | 1573708 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.939 | 0.000 | 1139905 | 6.483 | 0.001 | 1616055 | 84.7213 | 79.8606 | 5.9 | Oxychlorane A B |
| 6.028 | 0.001 | 888111 | 6.738 | 0.002 | 1374375 | 83.6141 | 79.0414 | 5.6 | 2,4-DDE A B |
| 6.250 | 0.001 | 1307010 | 6.833 | 0.001 | 2034531 | 85.7563 | 77.7550 | 9.8 | trans-Nonachlor A B |
| 6.494 | 0.002 | 594067 | 7.217 | 0.002 | 1010597 | 78.3366 | 73.6897 | 6.1 | 2,4-DDD A B |
| 6.720 | 0.002 | 638271 | 7.504 | 0.001 | 977657 | 83.7024 | 80.8625 | 3.5 | 2,4-DDT A B |
| 6.845 | 0.001 | 1558853 | 7.558 | 0.001 | 2288337 | 89.7090 | 80.7054 | 10.6 | cis-Nonachlor A B |
| 7.710 | 0.001 | 786392 | 8.761 | 0.002 | 1370111 | 76.2455 | 74.9191 | 1.8 | Mirex A B |
| 9.140 | 0.002 | 1335739 | 10.435 | 0.002 | 1779668 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.898 | 0.001 | 925705 | 4.299 | 0.001 | 2306813 | 66.8184 | 60.9886 | 9.1 | Tetrachloro-m-xylene A B |
| 8.983 | 0.003 | 1491855 | 9.925 | 0.003 | 1838863 | 66.1021 | 61.4705 | 7.3 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 167.0 | 152.5 | 152.5~ | 29-110 |
| Decachlorobiphenyl | 165.3 | 153.7 | 153.7~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 978714 | 17.0 |
| Hexabromobiphenyl | 1091107 | 1335739 | 22.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1573708 | 26.0 |
| Hexabromobiphenyl | 1339634 | 1779668 | 32.8 |

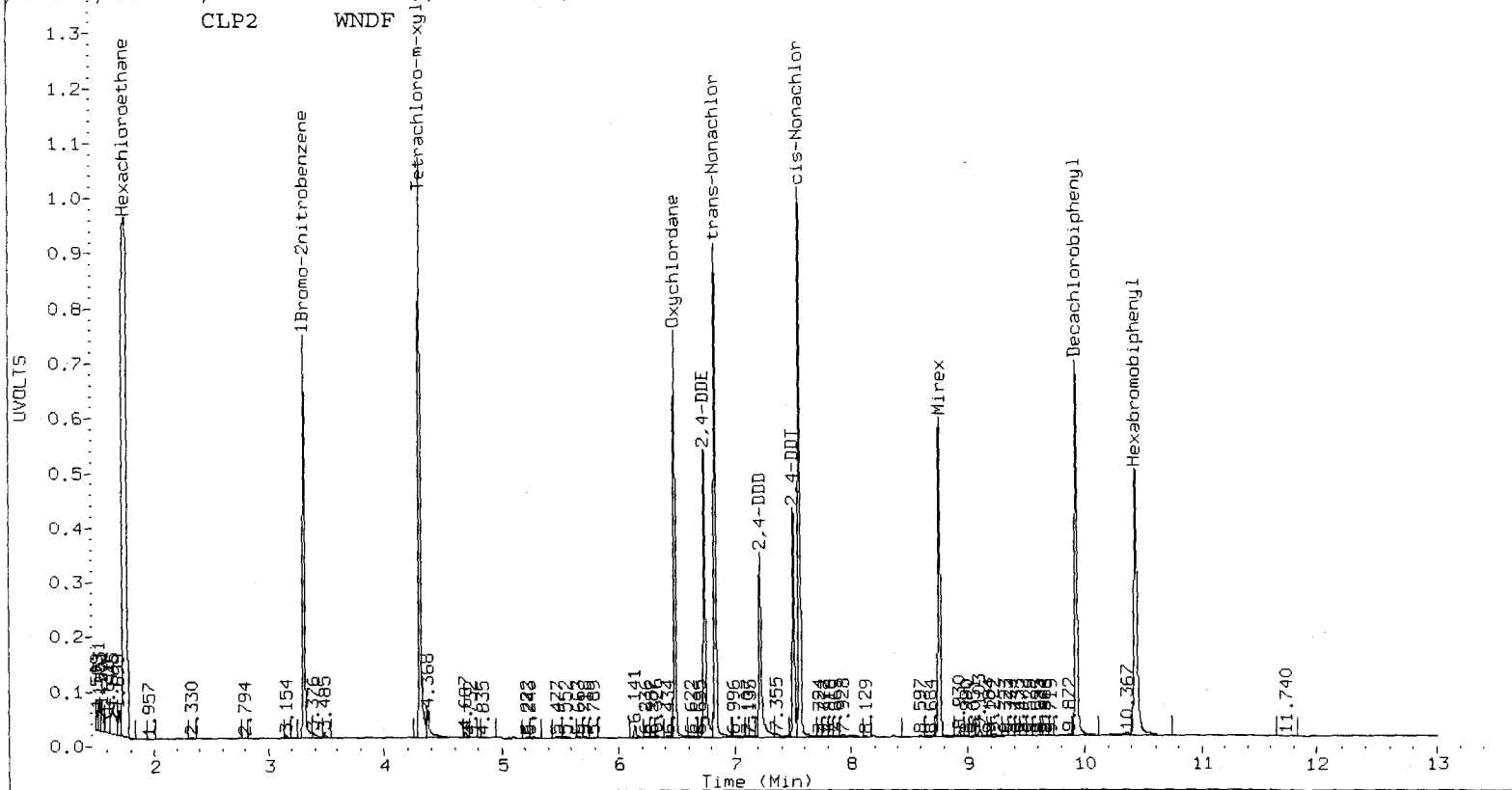
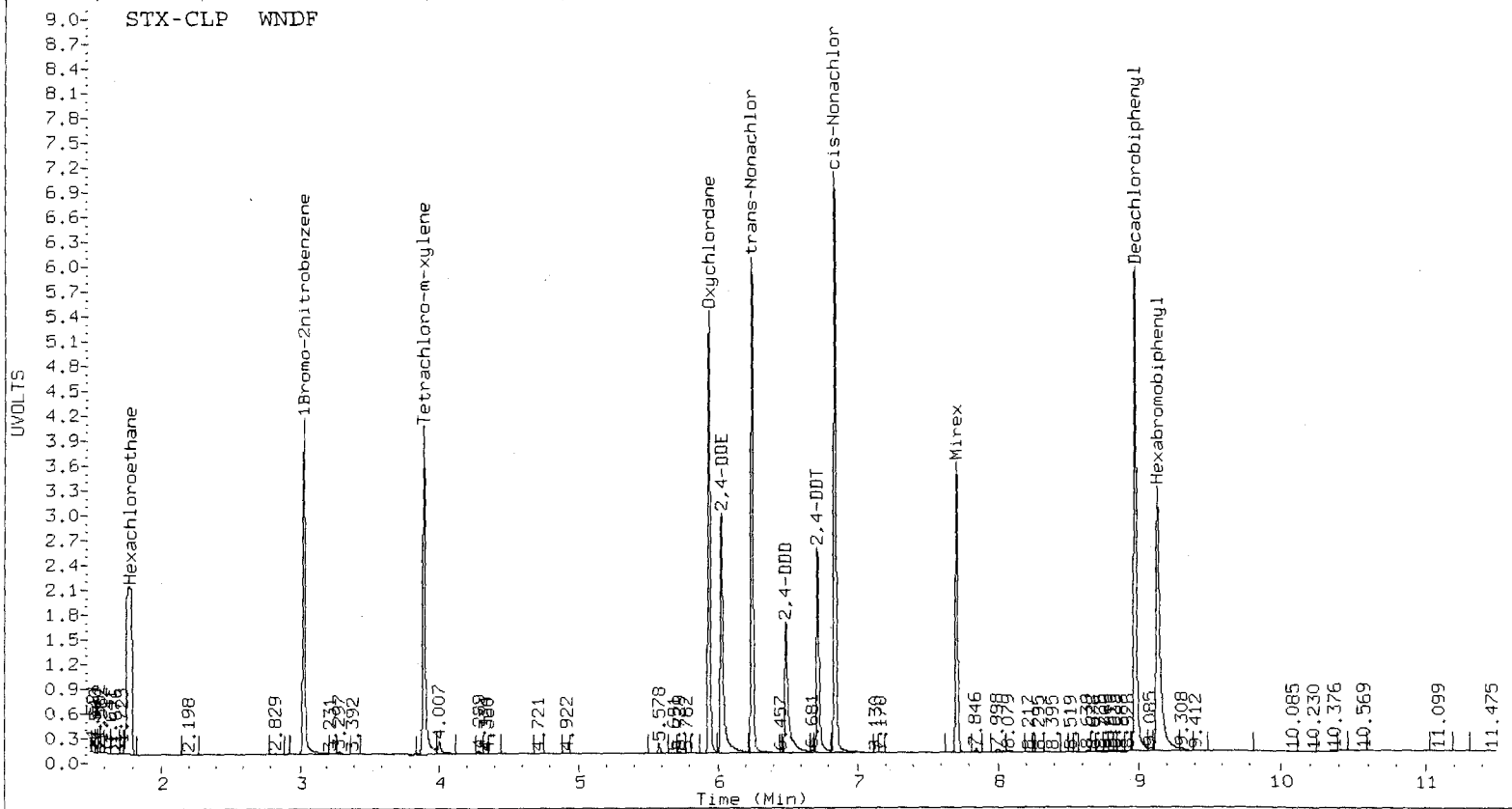
* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

=====



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A022.d ARI ID: WNDG
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A022.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 20:14
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col | | CLP2 Col | | STX-CLP CLP2 | | RPD | Compound/Flag | |
|-------|-------------|----------|----------|-------|--------------|----------|----------|---------------|--------------------------|
| | Shift | Response | RT | Shift | Response | on col | | | on col |
| 1.769 | 0.000 | 7888 | 1.752 | 0.000 | 1985631 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.030 | 0.000 | 965763 | 3.296 | 0.000 | 1560131 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 5.939 | 0.000 | 2355793 | 6.482 | 0.000 | 3151975 | 176.9256 | 157.1166 | 11.9 | Oxychlorane A B |
| 6.027 | 0.000 | 1834774 | 6.736 | 0.000 | 2681189 | 174.5520 | 155.5393 | 11.5 | 2,4-DDE A B |
| 6.249 | 0.000 | 2713521 | 6.832 | 0.000 | 4007548 | 179.9080 | 156.6144 | 13.8 | trans-Nonachlor A B |
| 6.491 | 0.000 | 1225822 | 7.215 | 0.000 | 1964186 | 163.3378 | 146.4539 | 10.9 | 2,4-DDD A B |
| 6.718 | 0.000 | 1354026 | 7.503 | 0.000 | 1994720 | 179.4278 | 168.7064 | 6.2 | 2,4-DDT A B |
| 6.844 | 0.000 | 3244974 | 7.557 | 0.000 | 4537321 | 188.7000 | 163.6331 | 14.2 | cis-Nonachlor A B |
| 7.709 | 0.000 | 1616194 | 8.759 | 0.000 | 2745322 | 158.3429 | 153.5039 | 3.1 | Mirex A B |
| 9.138 | 0.000 | 1321879 | 10.433 | 0.000 | 1740403 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.898 | 0.001 | 1911588 | 4.300 | 0.001 | 4490775 | 139.8308 | 119.7625 | 15.5 | Tetrachloro-m-xylene A |
| 8.981 | 0.001 | 3049671 | 9.923 | 0.001 | 3594851 | 136.5436 | 122.8817 | 10.5 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|--------|--------|
| Tetrachloro-m-xylene | 349.6 | 299.4 | 299.4~ | 29-110 |
| Decachlorobiphenyl | 341.4 | 307.2 | 307.2~ | 18-151 |

~ Indicates recovery outside QC Limits

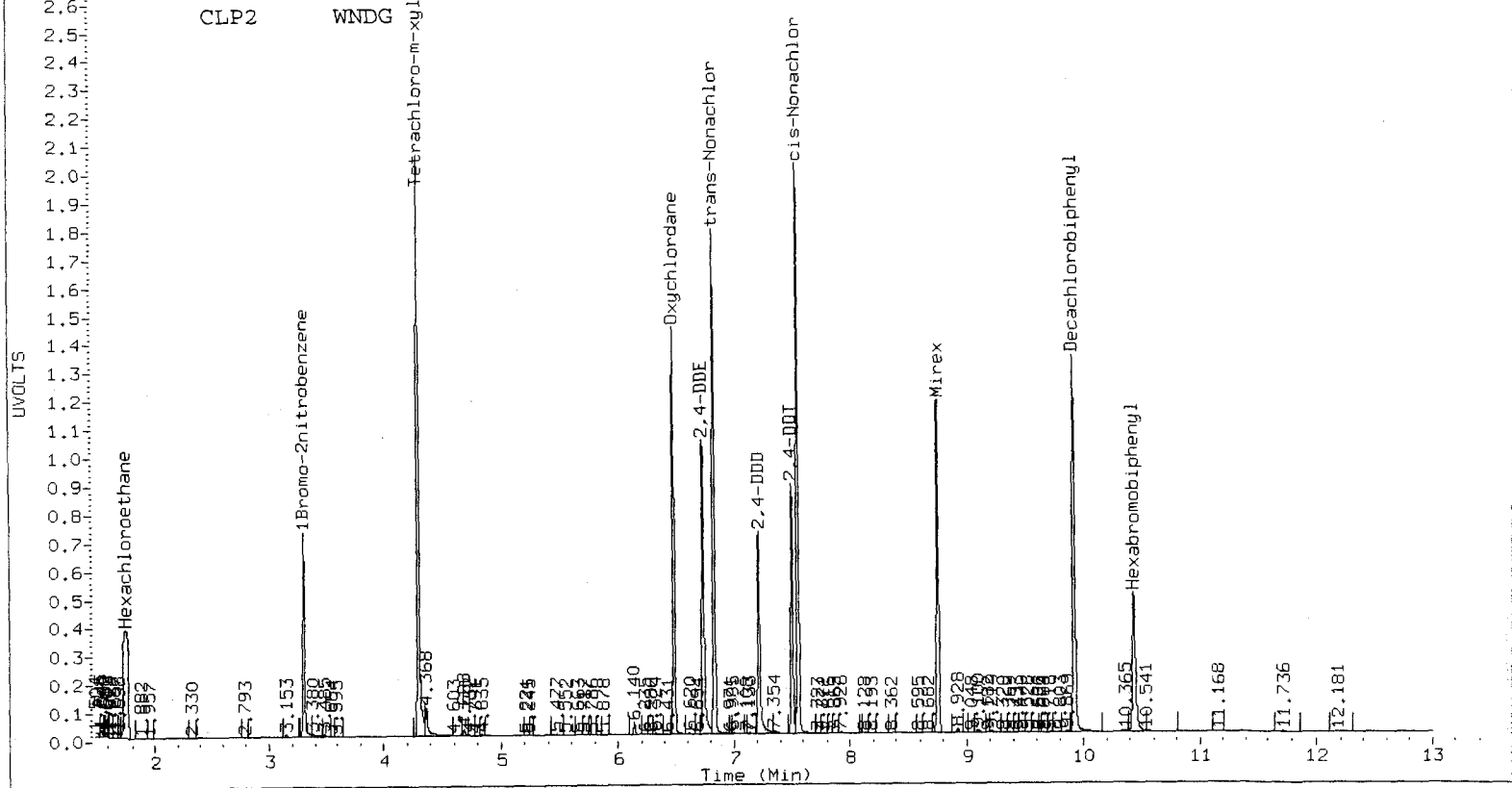
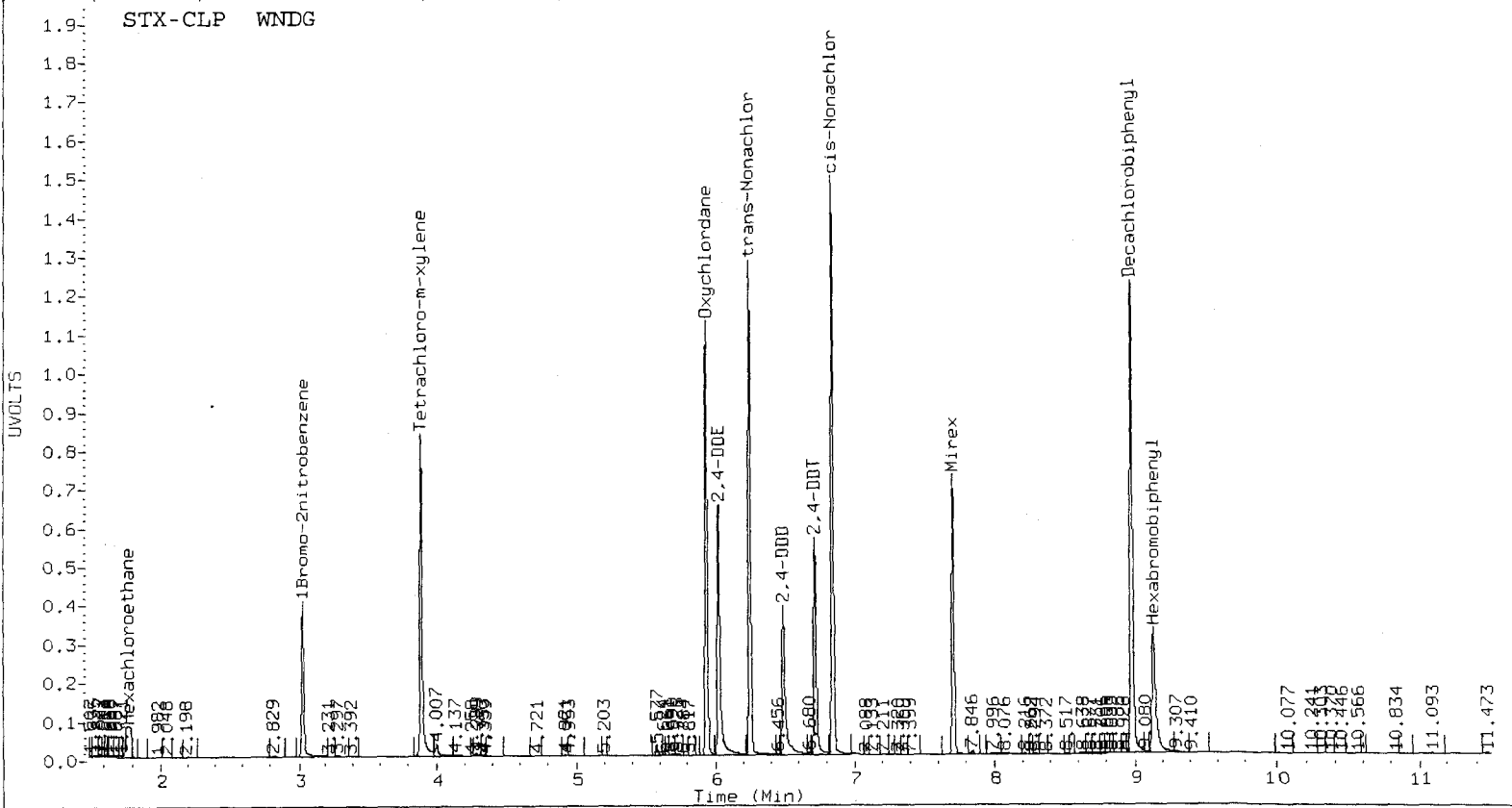
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 965763 | 15.5 |
| Hexabromobiphenyl | 1091107 | 1321879 | 21.2 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1560131 | 24.9 |
| Hexabromobiphenyl | 1339634 | 1740403 | 29.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A025.d ARI ID: DDT RT
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A025.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 21:11
 Compound Sublist: wpest Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|--------------------------|
| 3.030 | 0.000 970671 | | 3.296 | 0.000 1648261 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | alpha-BHC |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | beta-BHC |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | delta-BHC |
| ---- | | | 5.242 | -0.041 2005 | 0.0000 | 0.0700 | --- | gamma-BHC (Lindane) |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Heptachlor |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Aldrin |
| ---- | | | 6.556 | -0.011 7586 | 0.0000 | 0.2827 | --- | Heptachlor epoxide b |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Endosulfan I |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Dieldrin |
| 6.343 | 0.007 828475 | | 7.027 | 0.004 1409394 | 57.4670 | 46.0652 | 22.0 | 4,4'-DDE A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Endrin |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Endosulfan II |
| 6.884 | 0.010 529654 | | 7.570 | 0.006 929264 | 44.4712 | 47.7368 | 7.1 | 4,4'-DDD A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Endosulfan sulfate |
| 7.129 | 0.006 401503 | | 7.861 | 0.003 641468 | 49.7268 | 52.8389 | 6.1 | 4,4'-DDT A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Methoxychlor |
| 8.083 | 0.026 7913 | | ---- | | 0.5059 | 0.0000 | --- | Endrin ketone |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Endrin aldehyde |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | gamma-Chlordane |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 1.720 | -0.008 15989 | | ---- | | 0.5399 | 0.0000 | --- | Hexachlorobutadiene |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Hexachlorobenzene |
| ---- | | | 6.431 | -0.051 5824 | 0.0000 | 0.2748 | --- | Oxychlorthane |
| 6.028 | 0.001 542698 | | 6.736 | 0.000 926072 | 50.6786 | 50.8502 | 0.3 | 2,4-DDE A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | trans-Nonachlor |
| 6.493 | 0.002 381915 | | 7.216 | 0.001 618699 | 49.9517 | 44.6966 | 11.1 | 2,4-DDD A B |
| 6.719 | 0.001 371489 | | 7.503 | 0.000 597480 | 48.3207 | 48.9609 | 1.3 | 2,4-DDT A B |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| ---- | | | ---- | | 0.0000 | 0.0000 | --- | Mirex |
| 9.142 | 0.004 1346689 | | 10.436 | 0.002 1796277 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 1.776 | 0.007 19560 | | 1.753 | 0.002 4765183 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| ---- | | | 4.335 | 0.036 1029 | 0.0000 | 0.0260 | --- | Tetrachloro-m-xylene |
| 8.983 | 0.003 17914 | | 9.925 | 0.003 29176 | 0.7873 | 0.9663 | 20.4 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

0052: 01372

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.0 | 0.1 | 0.0~ | 29-110 |
| Decachlorobiphenyl | 2.0 | 2.4 | 2.0~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 970671 | 16.1 |
| Hexabromobiphenyl | 1091107 | 1346689 | 23.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1648261 | 32.0 |
| Hexabromobiphenyl | 1339634 | 1796277 | 34.1 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | |
|----------------------------|-------|-----|-------------|--------|--------|-------------------------|-----|----------|--------|--------|--|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | |
| Toxaphene | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 | |
| Toxaphene | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 | |
| Toxaphene | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 | |
| Toxaphene | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 | |
| Toxaphene | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 | |
| Toxaphene | 6 | --- | | | 0.000 | NS | --- | | | ---- | |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1016 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 | |
| Aroclor-1016 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 | |
| Aroclor-1016 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 | |
| Aroclor-1016 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 | |
| Aroclor-1016 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 | |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 | |
| Aroclor-1221 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 | |
| Aroclor-1221 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 | |
| Aroclor-1221 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 | |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 | |
| Aroclor-1232 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 | |
| Aroclor-1232 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 | |
| Aroclor-1232 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 | |
| Aroclor-1232 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 | |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 | |
| Aroclor-1242 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 | |
| Aroclor-1242 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 | |
| Aroclor-1242 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 | |
| Aroclor-1242 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 | |
| Aroclor-1242 | 6 | --- | | | 0.000 | NS | --- | | | ---- | |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPave: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPave: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPave: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |

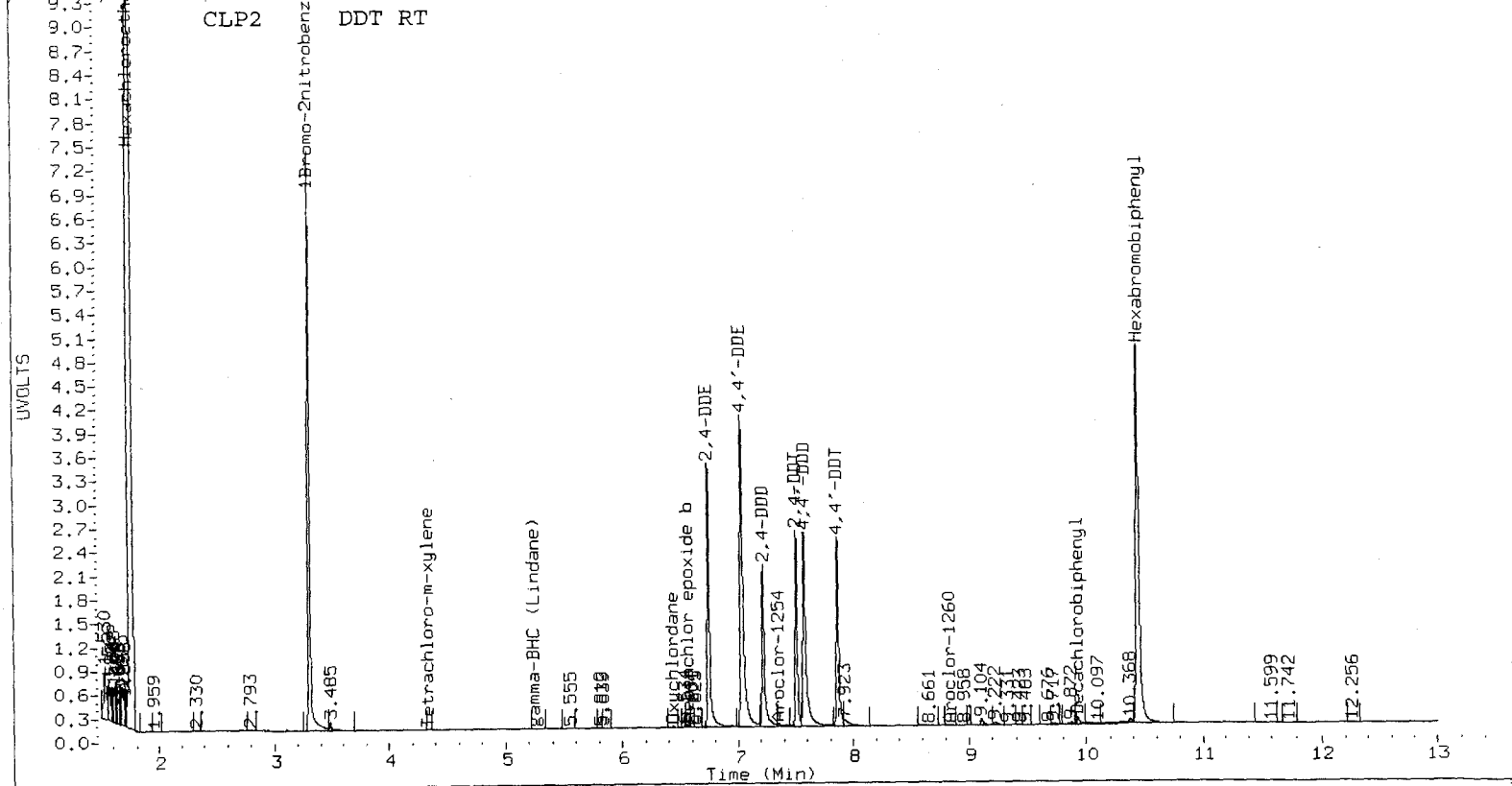
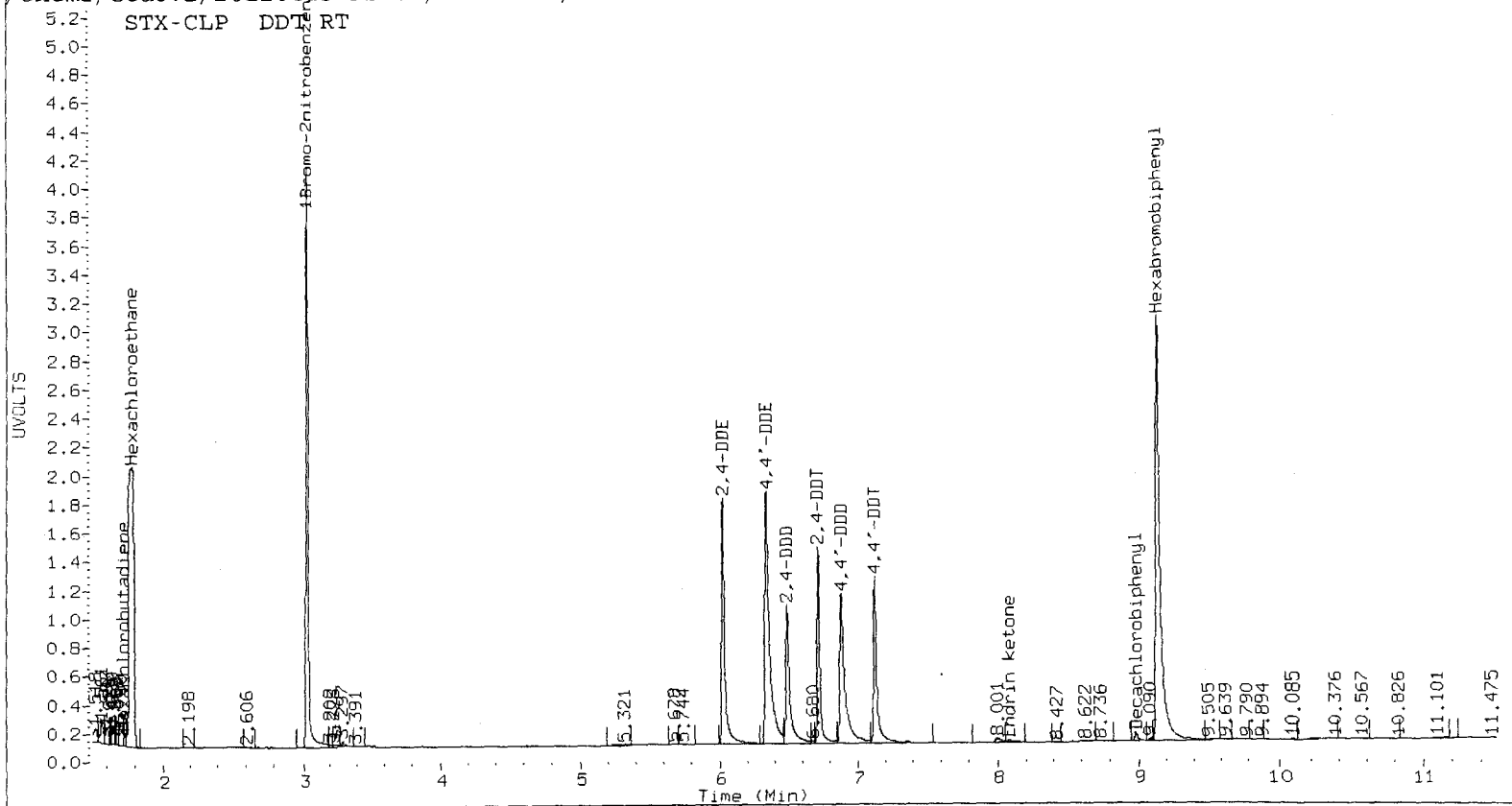
STX-CLPave: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPave: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A026.d ARI ID: TECH 200
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A026.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 21:30
 Compound Sublist: wpest Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.029 | -0.001 | 1032950 | 3.296 | -0.001 | 1750849 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| ---- | | | 4.962 | 0.033 | 15440 | 0.0000 | 0.4237 | --- | alpha-BHC | |
| 4.860 | 0.014 | 4151 | 5.400 | 0.033 | 16210 | 0.5437 | 1.0669 | 65.0* | beta-BHC A B | |
| 5.028 | 0.017 | 4408 | 5.643 | -0.010 | 3680 | 0.2795 | 0.1369 | 68.5* | delta-BHC A B | |
| 4.768 | 0.012 | 1346 | 5.296 | 0.013 | 7222 | 0.0835 | 0.2373 | 95.9* | gamma-BHC (Lindane) A B | |
| 5.201 | 0.000 | 133970 | 5.713 | 0.000 | 240385 | 8.4260 | 8.6777 | 2.9 | Heptachlor A B | |
| 5.488 | 0.011 | 2796 | 5.985 | -0.044 | 16877 | 0.1479 | 0.4935 | 107.8* | Aldrin A B | |
| 6.039 | 0.011 | 45161 | 6.593 | 0.026 | 25416 | 2.6666 | 0.8916 | 99.8* | Heptachlor epoxide b A B | |
| 6.408 | 0.023 | 11878 | 6.942 | -0.001 | 16272 | 0.4452 | 0.5874 | 27.5 | Endosulfan I A B | |
| 6.620 | 0.019 | 14112 | 7.206 | 0.007 | 50674 | 0.7796 | 1.7204 | 75.3* | Dieldrin A B | |
| 6.338 | 0.002 | 23519 | 7.034 | 0.011 | 29018 | 1.6526 | 0.8929 | 59.7* | 4,4'-DDE A B | |
| 6.792 | -0.019 | 4812 | 7.490 | 0.001 | 23313 | 0.3221 | 1.0520 | 106.2* | Endrin A B | |
| 7.020 | 0.005 | 9010 | 7.672 | -0.014 | 19424 | 0.5864 | 0.8228 | 33.5 | Endosulfan II A B | |
| 6.918 | 0.044 | 15534 | ---- | | | 1.2772 | 0.0000 | --- | 4,4'-DDD | |
| 7.797 | 0.002 | 3641 | 8.261 | 0.002 | 1900 | 0.2834 | 0.0958 | 99.0* | Endosulfan sulfate A B | |
| 7.141 | 0.018 | 3157 | 7.874 | 0.016 | 12178 | 0.3829 | 0.9686 | 86.7* | 4,4'-DDT A B | |
| 7.587 | 0.026 | 1750 | ---- | | | 0.3739 | 0.0000 | --- | Methoxychlor | |
| 8.078 | 0.022 | 17994 | 8.784 | 0.004 | 7865 | 1.1265 | 0.3672 | 101.7* | Endrin ketone A B | |
| 7.421 | 0.025 | 1687 | 8.036 | 0.037 | 44201 | 0.1380 | 2.2141 | 176.5* | Endrin aldehyde A B | |
| 6.144 | 0.001 | 428202 | 6.783 | 0.038 | 32151 | 25.2613 | 1.0483 | 184.1* | gamma-Chlordane A B | |
| 6.260 | -0.001 | 687610 | 6.882 | 0.000 | 578091 | 39.3455 | 18.7815 | 70.8* | alpha-Chlordane A B | |
| 1.708 | -0.020 | 28995 | 2.040 | 0.003 | 1057 | 0.9201 | 0.0191 | 191.9* | Hexachlorobutadiene A B | |
| 4.288 | 0.000 | 4878 | 4.791 | 0.000 | 3694 | 0.2694 | 0.1106 | 83.6* | Hexachlorobenzene A B | |
| 5.930 | -0.009 | 3571 | 6.501 | 0.019 | 6676 | 0.2578 | 0.2965 | 14.0 | Oxychlordane A B | |
| 5.972 | -0.055 | 66304 | 6.746 | 0.010 | 661508 | 6.0630 | 34.1948 | 139.8* | 2,4-DDE A B | |
| ---- | | | 6.831 | 0.000 | 542158 | 0.0000 | 19.8228 | --- | trans-Nonachlor | |
| 6.483 | -0.009 | 10944 | 7.184 | -0.031 | 13898 | 1.4017 | 0.9695 | 36.4 | 2,4-DDD A B | |
| 6.673 | -0.045 | 31130 | 7.461 | -0.042 | 25043 | 3.9651 | 1.9816 | 66.7* | 2,4-DDT A B | |
| 6.843 | -0.001 | 72668 | 7.557 | 0.000 | 120538 | 4.0617 | 4.0671 | 0.1 | cis-Nonachlor A B | |
| ---- | | | 8.727 | -0.033 | 8927 | 0.0000 | 0.4670 | --- | Mirex | |
| 9.139 | 0.000 | 1375257 | 10.434 | 0.000 | 1860213 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.775 | 0.007 | 7948 | 1.752 | 0.000 | 1997129 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.897 | 0.000 | 437726 | 4.298 | 0.000 | 1084724 | 29.9366 | 25.7769 | 14.9 | Tetrachloro-m-xylene A B | |
| 8.981 | 0.001 | 729118 | 9.923 | 0.002 | 920809 | 31.3779 | 29.4485 | 6.3 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01377

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 74.8 | 64.4 | 64.4 | 29-110 |
| Decachlorobiphenyl | 78.4 | 73.6 | 73.6 | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 1032950 | 23.5 |
| Hexabromobiphenyl | 1091107 | 1375257 | 26.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1750849 | 40.2 |
| Hexabromobiphenyl | 1339634 | 1860213 | 38.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | STX-CLP Col | | | | Peak# | RT | CLP2 Col | | |
|------------------------------------|-------|-------------|--------|--------|---------------------------------|-------|-------|----------|--------|------------|
| | | Shift | Height | Amount | Shift | | | Height | Amount | |
| Toxaphene | 1 | 7.073 | 0.004 | 3562 | 5.158 | 1 | 7.734 | -0.025 | 159794 | 145.894 |
| Toxaphene | 2 | 7.141 | 0.022 | 3157 | 6.554 | 2 | 8.036 | 0.034 | 44201 | 36.582 |
| Toxaphene | 3 | 7.511 | -0.012 | 1253 | 2.871 | 3 | 8.261 | 0.006 | 1900 | 3.657 |
| Toxaphene | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Toxaphene | 5 | 7.772 | 0.021 | 1978 | 3.489 | 5 | 9.046 | 0.007 | 5179 | 13.208 |
| Toxaphene | 6 | 7.997 | -0.041 | 21664 | 52.712 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (5 peaks): 14.157 | | | | | Total CLP2Ave (4 peaks): 49.835 | | | | | RPD = 112* |
| Corrected Ave (4 peaks): 4.518 | | | | | Corrected Ave (3 peaks): 17.816 | | | | | RPD = 119* |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | |
|----------------|-----|-------|---|-----|-------|
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR-5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A013.d ARI ID: INDA ICV
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A013.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 17:25
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

40ppb

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------------------------|-------------------|-------------------|----------|--------------------------|
| 3.028 | -0.002 932869 | 3.295 -0.002 1487234 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.453 | 0.000 759722 | 4.929 0.000 1172696 | 42.4107 | 37.8893 | 11.3 | alpha-BHC A B |
| 4.846 | 0.000 251541 | 5.367 0.000 468953 | 36.4783 | 36.3354 | 0.4 | beta-BHC A B |
| 5.010 | -0.001 654624 | 5.653 0.000 943352 | 45.9676 | 41.3109 | 10.7 | delta-BHC A B |
| 4.755 | 0.000 609793 | 5.283 0.000 984267 | 41.8798 | 38.0714 | 9.5 | gamma-BHC (Lindane) A B |
| 5.201 | 0.000 587136 | 5.714 0.001 878394 | 40.8893 | 37.3298 | 9.1 | Heptachlor A B |
| 5.477 | 0.000 729063 | 6.029 0.000 1104202 | 42.6883 | 38.0093 | 11.6 | Aldrin A B |
| 6.029 | 0.001 611152 | 6.567 0.000 870609 | 39.9583 | 35.9532 | 10.6 | Heptachlor epoxide b A B |
| 6.385 | 0.001 716362 | 6.943 0.001 844344 | 29.7330 | 35.8839 | 18.7 | Endosulfan I A B |
| 6.602 | 0.001 637502 | 7.199 0.000 918051 | 38.9952 | 36.6928 | 6.1 | Dieldrin A B |
| 6.337 | 0.001 567268 | 7.024 0.001 1062400 | 41.8867 | 38.4836 | 8.5 | 4,4'-DDE A B |
| 6.812 | 0.000 544819 | 7.490 0.000 727017 | 39.2976 | 37.5465 | 4.6 | Endrin A B |
| 7.016 | 0.001 515562 | 7.686 0.000 760226 | 36.1627 | 36.8560 | 1.9 | Endosulfan II A B |
| 6.876 | 0.002 387276 | 7.566 0.001 652217 | 34.3147 | 37.0275 | 7.6 | 4,4'-DDD A B |
| 7.796 | 0.001 441044 | 8.258 0.000 678819 | 37.0003 | 39.1717 | 5.7 | Endosulfan sulfate A B |
| 7.125 | 0.001 312174 | 7.859 0.001 469101 | 40.8011 | 42.7034 | 4.6 | 4,4'-DDT A B |
| 7.562 | 0.001 163353 | 8.488 0.001 234161 | 37.6149 | 41.7478 | 10.4 | Methoxychlor A B |
| 8.057 | 0.000 487442 | 8.781 0.000 676135 | 32.8876 | 36.1257 | 9.4 | Endrin ketone A B |
| 7.397 | 0.001 404061 | 7.999 0.000 607288 | 35.6127 | 34.8145 | 2.3 | Endrin aldehyde A B |
| 6.143 | 0.000 625284 | 6.746 0.001 974452 | 40.8454 | 37.4049 | 8.8 | gamma-Chlordane A B |
| 6.262 | 0.001 636032 | 6.882 0.000 983945 | 40.2987 | 37.6334 | 6.8 | alpha-Chlordane A B |
| 1.704 | -0.024 16200 | ---- | 0.5692 | 0.0000 | --- | Hexachlorobutadiene |
| 4.287 | 0.000 3786 | 4.804 0.013 1552 | 0.2315 | 0.0547 | M 123.6* | Hexachlorobenzene A B |
| 9.135 | -0.004 1276127 | 10.431 -0.003 1625382 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.896 | -0.001 415652 | 4.298 -0.001 1131559 | 31.4766 | 31.6562 | 0.6 | Tetrachloro-m-xylene A B |
| 8.980 | 0.000 693847 | 9.922 0.001 866132 | 32.1795 | 31.7019 | 1.5 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 78.7 | 79.1 | 78.7~ | 85-115 |
| Decachlorobiphenyl | 80.4 | 79.3 | 79.3~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 932869 | 11.5 |
| Hexabromobiphenyl | 1091107 | 1276127 | 17.0 |

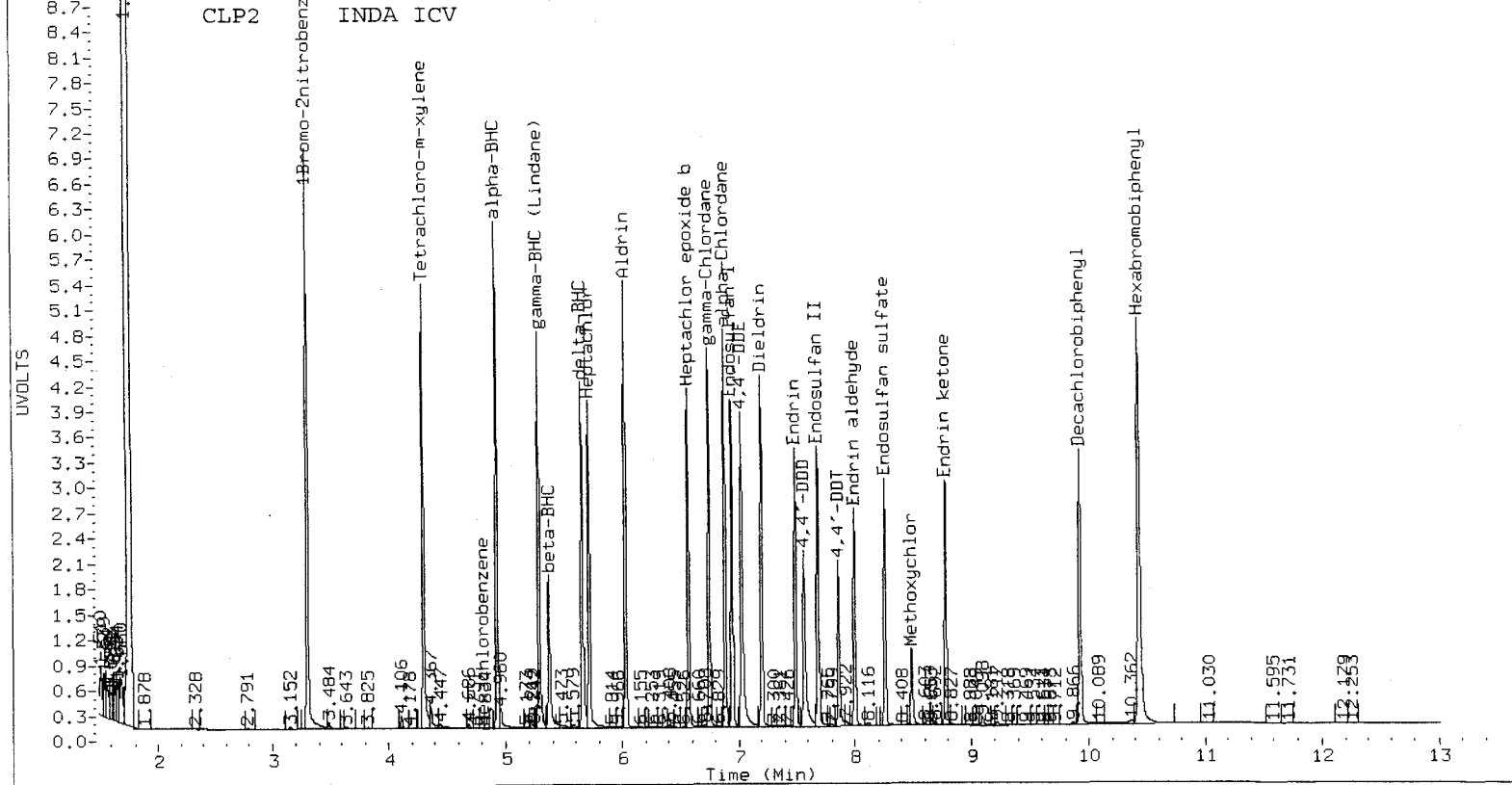
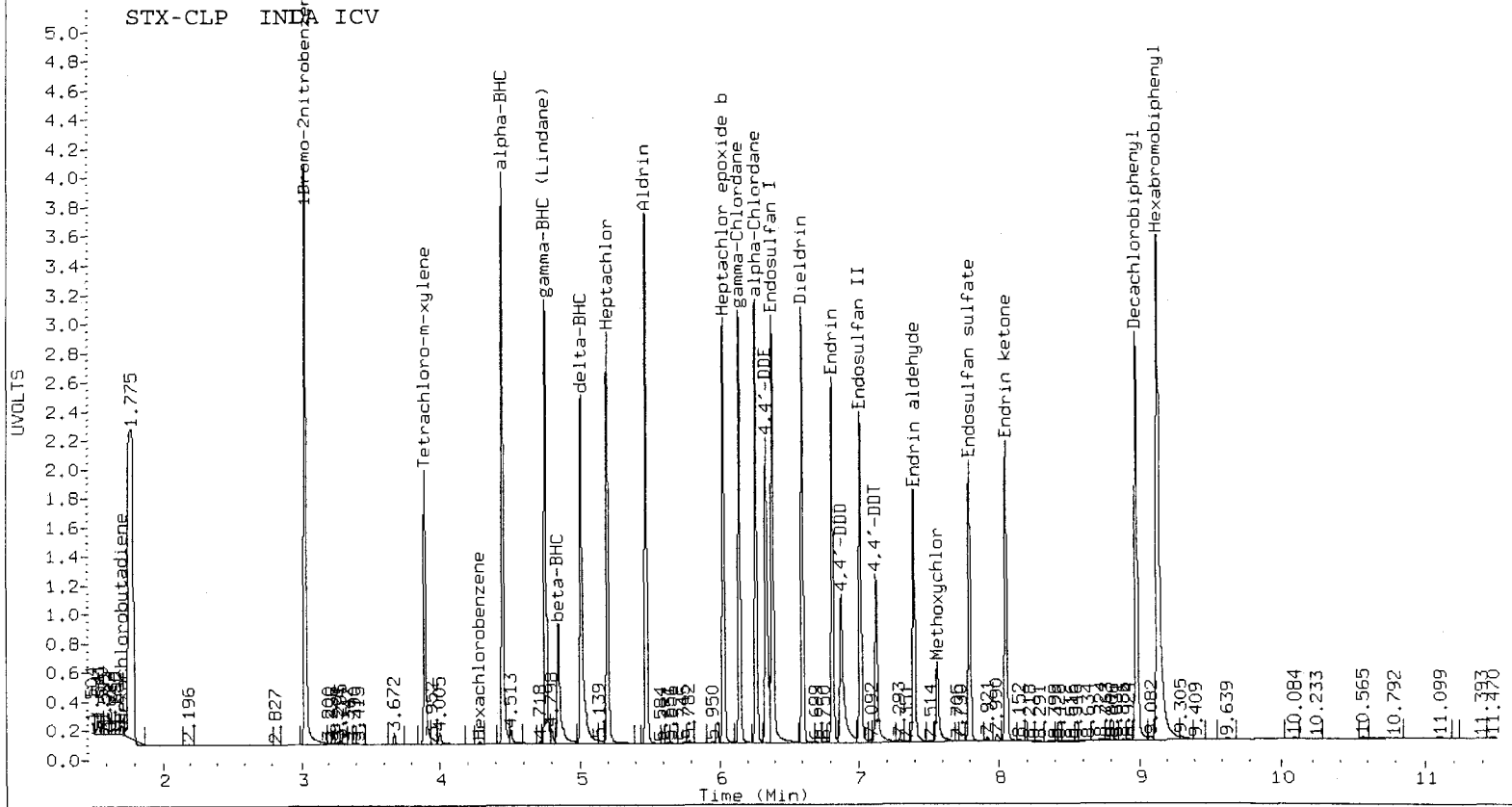
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1487234 | 19.1 |
| Hexabromobiphenyl | 1339634 | 1625382 | 21.3 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A014.d ARI ID: HCB/HCBD ICV
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A014.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 17:43
 Compound Sublist: INDA Report Date: 05/29/2012 09:15
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

HCB 40.8 & HCB 46.8

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|-------------------|-------------------|------------------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.029 | -0.001 | 892508 | 3.295 | -0.001 | 1427760 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| | | | | | | 0.0000 | 0.0000 | | alpha-BHC | |
| 4.826 | -0.020 | 1065 | | | | 0.1614 | 0.0000 | | beta-BHC | |
| 5.011 | 0.000 | 1216 | 5.609 | -0.044 | 1327 | 0.0892 | 0.0605 | 38.3 | delta-BHC A B | |
| | | | 5.237 | -0.045 | 4942 | 0.0000 | 0.1991 | | gamma-BHC (Lindane) | |
| | | | | | | 0.0000 | 0.0000 | | Heptachlor | |
| | | | 6.054 | 0.026 | 2574 | 0.0000 | 0.0923 | | Aldrin | |
| 6.043 | 0.015 | 1380 | 6.555 | -0.012 | 1856 | 0.0943 | 0.0798 | 16.6 | Heptachlor epoxide b A B | |
| 6.365 | -0.020 | 1420 | | | | 0.0616 | 0.0000 | | Endosulfan I | |
| | | | 7.227 | 0.028 | 1512 | 0.0000 | 0.0629 | | Dieldrin | |
| 6.335 | -0.001 | 2500 | | | | 0.2037 | 0.0000 | | 4,4'-DDE | |
| | | | | | | 0.0000 | 0.0000 | | Endrin | |
| | | | | | | 0.0000 | 0.0000 | | Endosulfan II | |
| 6.891 | 0.017 | 10480 | | | | 0.9230 | 0.0000 | | 4,4'-DDD | |
| 7.797 | 0.002 | 2944 | | | | 0.2455 | 0.0000 | | Endosulfan sulfate | |
| 7.125 | 0.002 | 2505 | 7.869 | 0.011 | 1922 | 0.3254 | 0.1748 | 60.2* | 4,4'-DDT A B | |
| 7.551 | -0.010 | 1920 | | | | 0.4395 | 0.0000 | | Methoxychlor | |
| 8.069 | 0.013 | 13898 | | | | 0.9321 | 0.0000 | | Endrin ketone | |
| 7.396 | 0.000 | 1817 | 7.996 | -0.003 | 1491 | 0.1592 | 0.0854 | 60.3* | Endrin aldehyde A B | |
| 6.114 | -0.028 | 3826 | | | | 0.2812 | 0.0000 | | gamma-Chlordane | |
| | | | | | | 0.0000 | 0.0000 | | alpha-Chlordane | |
| 1.728 | 0.000 | 1318722 | 2.036 | -0.001 | 1836197 | 48.4324 | 40.6961 | 17.4 | Hexachlorobutadiene A BM | |
| 4.287 | 0.000 | 622261 | 4.790 | -0.001 | 985735 | 39.7729 | 36.1821 | 9.5 | Hexachlorobenzene A B | |
| 9.132 | -0.006 | 1283811 | 10.429 | -0.005 | 1626638 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 3.896 | 0.000 | 471201 | 4.298 | -0.001 | 1222679 | 37.2969 | 35.6302 | 4.6 | Tetrachloro-m-xylene A B | |
| 8.979 | -0.001 | 765007 | 9.922 | 0.001 | 947027 | 35.2675 | 34.6360 | 1.8 | Decachlorobiphenyl A B | |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 93.2 | 89.1 | 89.1 | 85-115 |
| Decachlorobiphenyl | 88.2 | 86.6 | 86.6 | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 892508 | 6.7 |
| Hexabromobiphenyl | 1091107 | 1283811 | 17.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1427760 | 14.3 |
| Hexabromobiphenyl | 1339634 | 1626638 | 21.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|-------------|-------|--------|-------|----|----------|-------|--------|
| | | RT | Shift | Height | | | Amount | Shift | Height |
| ===== | | | | | | | | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A023.d ARI ID: WND ICV
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A023.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 20:33
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

50ppb

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|-------|----------|---------------------|---------------------|------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 1.776 | 0.008 | 20892 | 1.752 | 0.000 | 5159601 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.031 | 0.001 | 965292 | 3.297 | 0.000 | 1605656 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 5.938 | -0.001 | 747620 | 6.482 | 0.000 | 1091823 | 58.2781 | 52.8811 ✓ | 9.7 | Oxychlorane A B | |
| 6.026 | -0.001 | 3895811 | 6.736 | 0.000 | 5317346 | 384.6898 | 299.7203 | 24.8 | 2,4-DDE A B | |
| 6.249 | 0.000 | 867555 | 6.831 | 0.000 | 1512977 | 59.7014 | 59.9433 | 0.4 | trans-Nonachlor A B | |
| 6.490 | -0.001 | 2574530 | 7.215 | 0.000 | 3912586 | 356.0637 | 295.7587 | 18.5 | 2,4-DDD A B | |
| 6.718 | 0.000 | 2894196 | 7.503 | 0.001 | 4016794 | 398.0717 | 344.4171 | 14.5 | 2,4-DDT A B | |
| 6.844 | 0.000 | 988012 | 7.557 | 0.000 | 1544186 | 59.6339 | 56.4582 ✓ | 5.5 | cis-Nonachlor A B | |
| 7.710 | 0.000 | 510747 | 8.760 | 0.001 | 913412 | 51.9376 | 51.7784 ✓ | 0.3 | Mirex A B | |
| 9.140 | 0.002 | 1273565 | 10.434 | 0.001 | 1716700 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 3.898 | 0.001 | 446071 | 4.299 | 0.001 | 1165869 | 32.6456 | 30.2105 ✓ | 7.7 | Tetrachloro-m-xylene A B | |
| 8.982 | 0.002 | 744399 | 9.924 | 0.002 | 949248 | 34.5935 | 32.8959 ✓ | 5.0 | Decachlorobiphenyl A B | |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 81.6 | 75.5 | 75.5 | 29-110 |
| Decachlorobiphenyl | 86.5 | 82.2 | 82.2 | 18-151 |

~ Indicates recovery outside QC Limits

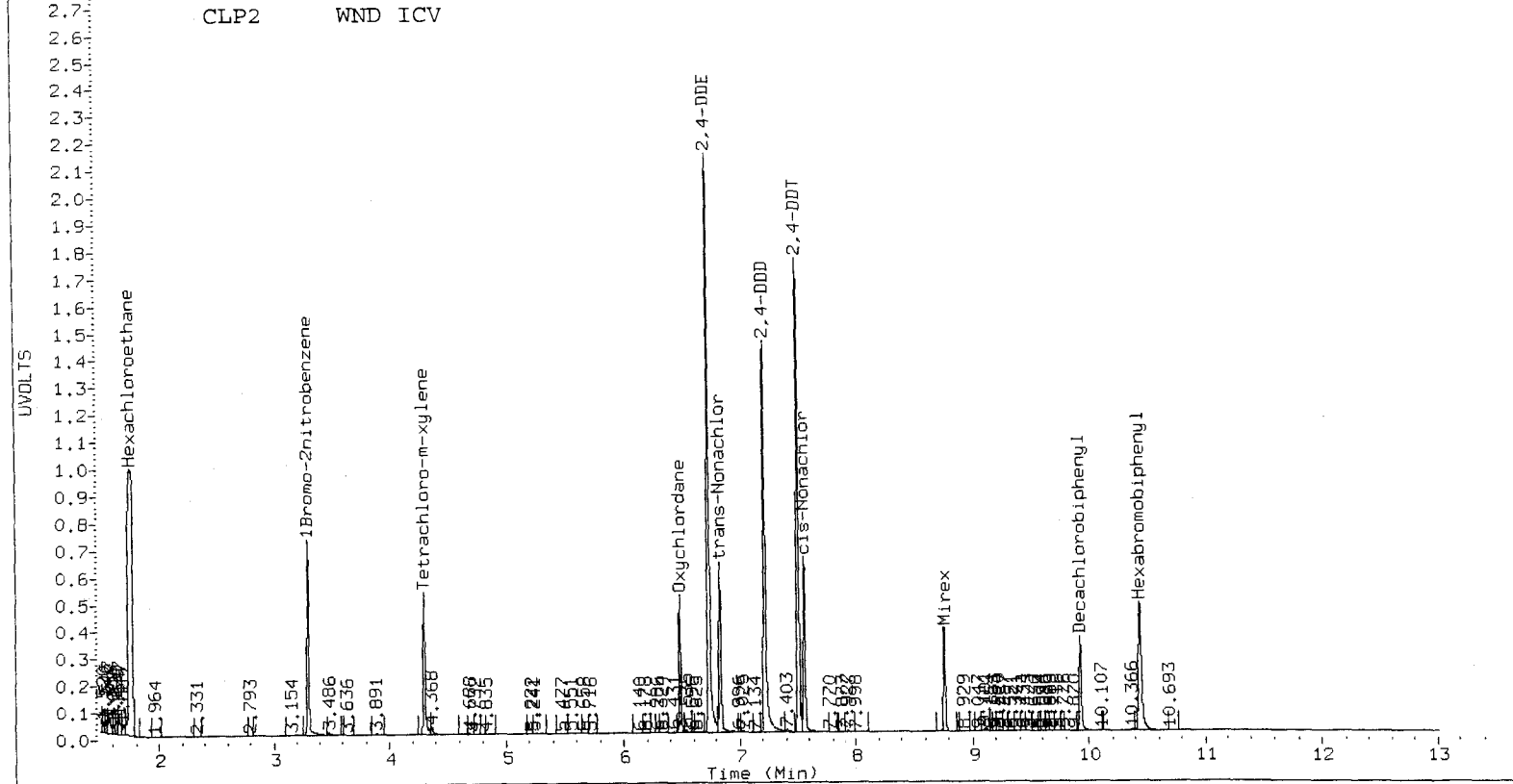
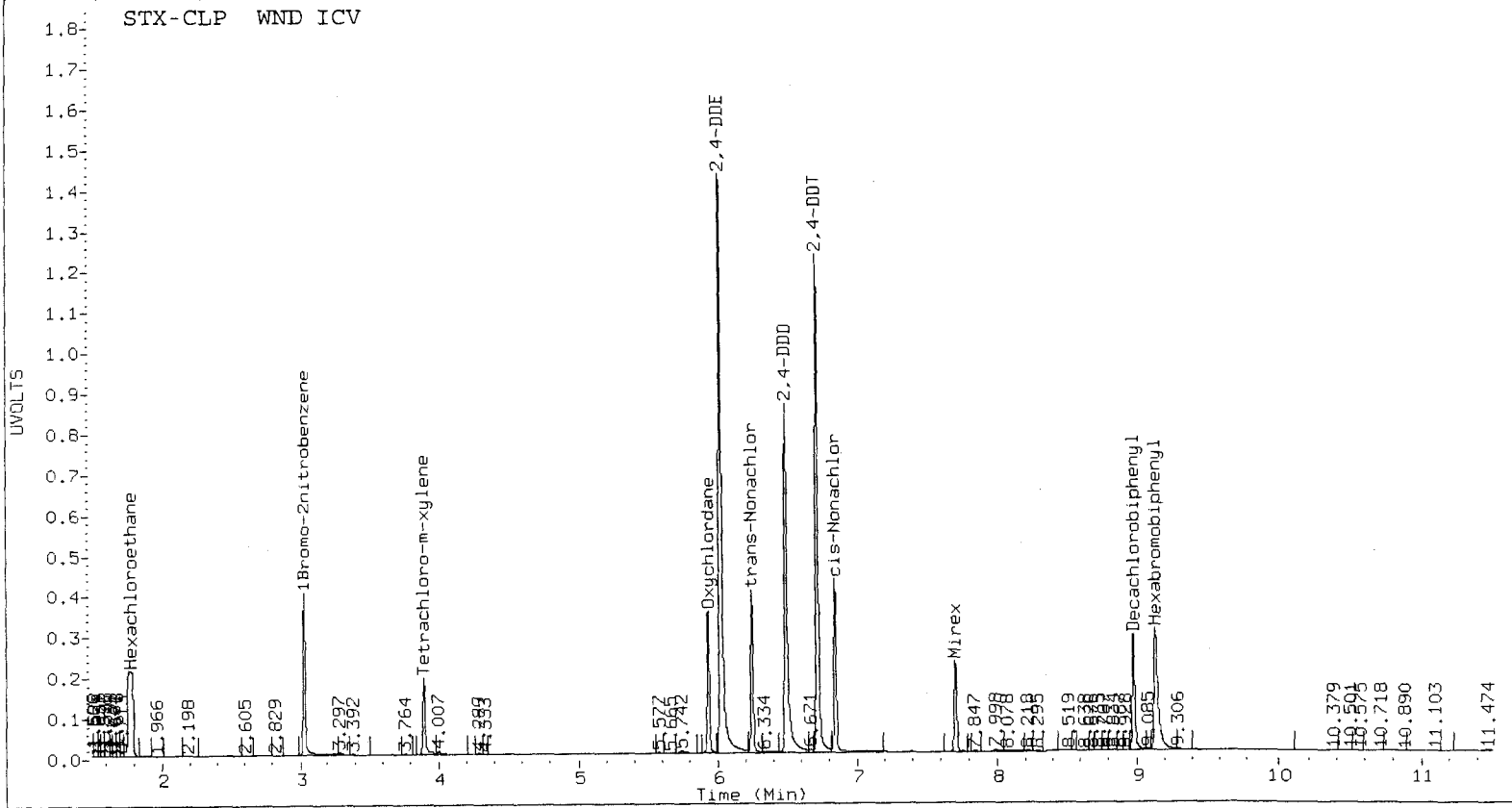
INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 965292 | 15.4 |
| Hexabromobiphenyl | 1091107 | 1273565 | 16.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1605656 | 28.6 |
| Hexabromobiphenyl | 1339634 | 1716700 | 28.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/ical-1.b/0524A024.d ARI ID: OPDDTS ICV
 Data file 2: /chem2/ecd8.i/20120525PEST.b/ical-2.b/0524A024.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 25-MAY-2012 20:52
 Compound Sublist: WND Report Date: 05/29/2012 09:16
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

SOPP

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------------------------|--------|----------------|-------------|-----|--------------------------|
| 1.772 | 0.003 3322 | -0.003 782460 | 1.749 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.029 | -0.001 961204 | -0.001 1621863 | 3.296 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| ---- | | 6.429 -0.053 5294 | 6.429 | 0.0000 | 0.2538 | --- | Oxychlorane |
| 6.026 | -0.001 597143 | 0.000 977377 | 6.736 | 54.4776 | 54.5408 | 0.1 | 2,4-DDE A B |
| ---- | | ---- | ---- | 0.0000 | 0.0000 | --- | trans-Nonachlor |
| 6.490 | -0.001 398711 | 0.000 694461 | 7.215 | 50.9465 | 50.2336 | 1.4 | 2,4-DDD A B |
| 6.718 | 0.000 446247 | 0.000 715186 | 7.503 | 56.7068 | 58.6810 | 3.4 | 2,4-DDT A B |
| ---- | | 7.564 0.007 6570 | 7.564 | 0.0000 | 0.2299 | --- | cis-Nonachlor |
| ---- | | ---- | ---- | 0.0000 | 0.0000 | --- | Mirex |
| 9.135 | -0.004 1378461 | -0.002 1793995 | 10.432 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| ---- | | 4.302 0.003 1237 | 4.302 | 0.0000 | 0.0317 | --- | Tetrachloro-m-xylene |
| ---- | | 9.925 0.004 2575 | 9.925 | 0.0000 | 0.0854 | --- | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.0 | 0.1 | 0.0~ | 29-110 |
| Decachlorobiphenyl | 0.0 | 0.2 | 0.0~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 961204 | 14.9 |
| Hexabromobiphenyl | 1091107 | 1378461 | 26.3 |

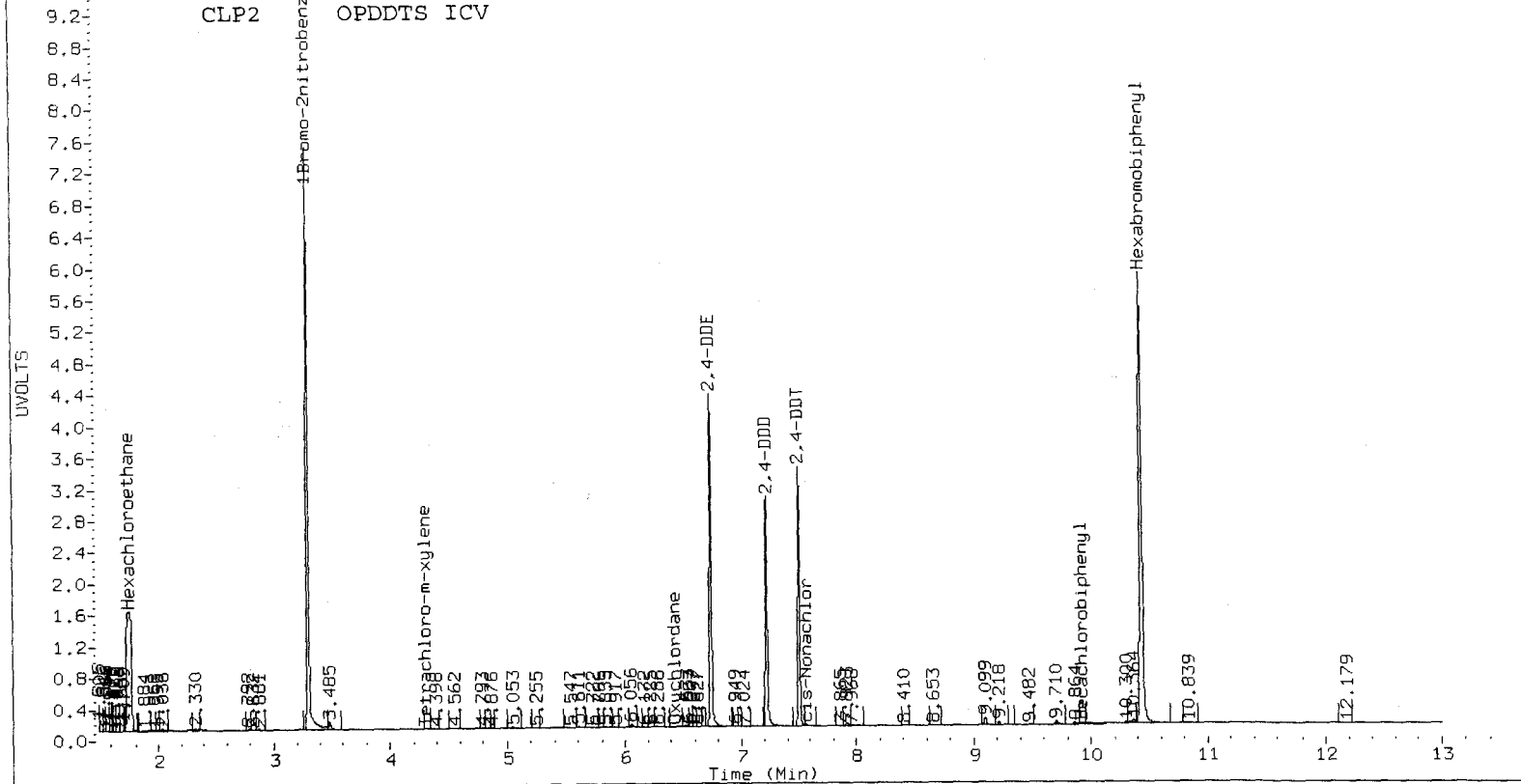
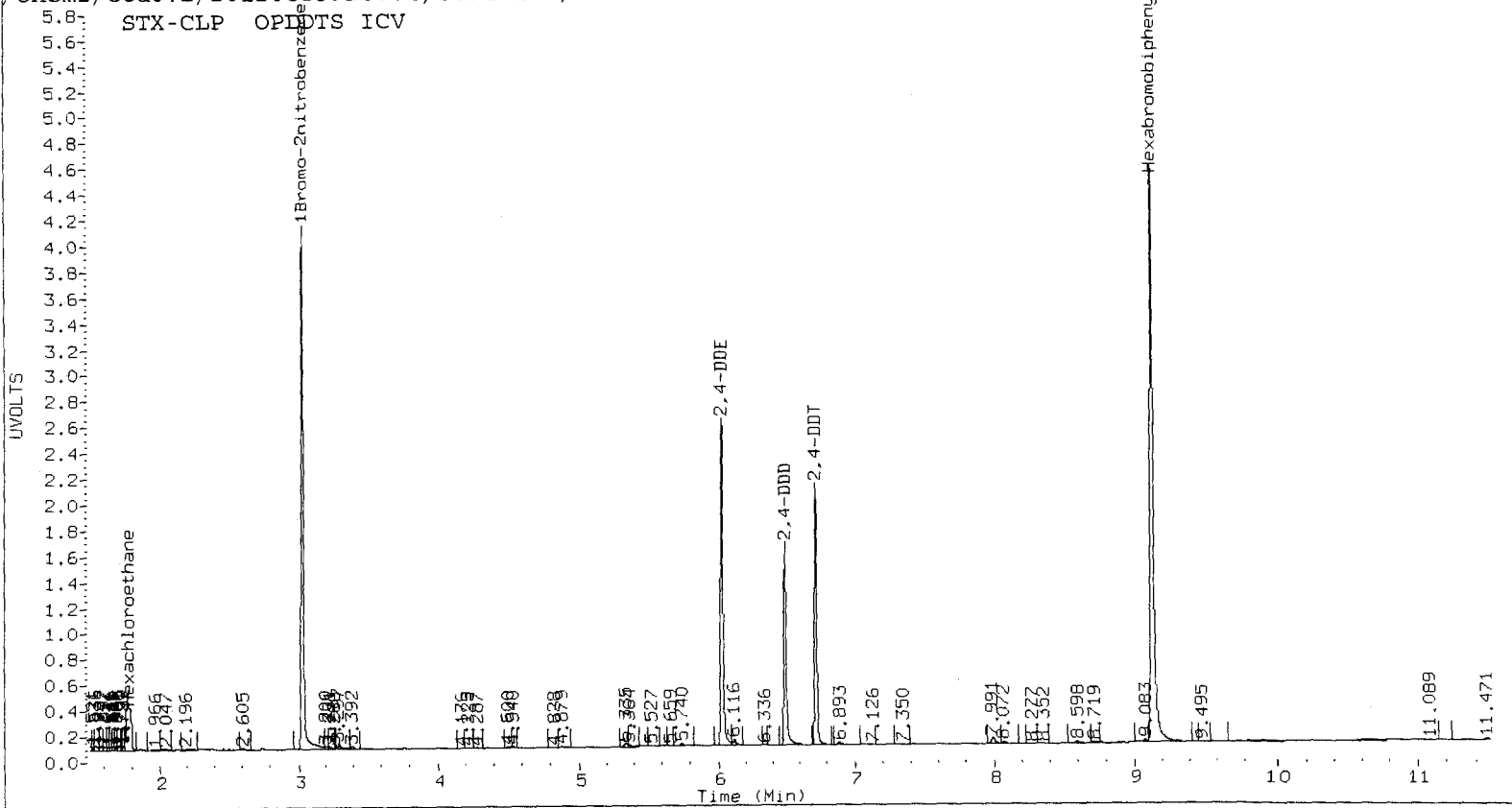
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1621863 | 29.9 |
| Hexabromobiphenyl | 1339634 | 1793995 | 33.9 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |



**Pesticide Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: UU52, UU62

GC Analyst Notes / Corrective Action Log

ARI Project ID: uu52 Client ID: Anchor

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): 12.5g / 2.5mL FV

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
 FID-9 ECD-1 ECD-5 ECD-6 ECD-7 **ECD8**

Dates: Curve: 5/25/2012 Analysis Start: 5/25/2012

Endrin/DDT Breakdown <15%? **YES** / ~~NO~~ / NA^① 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~~^① Surrogate Recovery In Control? **YES** / ~~NO~~^②
 Manual Integrations for ICal? **YES** / NO *Samps Diluted out* Manual Integrations for Samples? **YES** / NO
 Internal Standard Meets Criteria? **YES** / NO / NA Special Analysis Criteria Met? **YES** / NO / NA
Lvl 4 VDP

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

- ① See adjoining run log
- ② Samp G 10x Tcmx 1st col positive interference & DCP 1st col out low due to interference.
- Flags - Samp G 10x B-BHC opposite shifts & background interference and Endrin Aldehyde opposite shifts
- Acid cleaned PCB extracts were run prior to these samps & included for file

Additional Details on Reverse: **Yes** / ~~No~~

Analyst: _____ Date: 5/29/2012

Reviewer: B Date: 5/29/12

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd8.i/20120525PEST.b/ical-2.b

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|------------|----|--|-----------------|
| 1 | 25-MAY-2012 14:34 | 0524A004.d | 1 | DS | |
| 2 | 25-MAY-2012 14:53 | 0524A005.d | 1 | IB | |
| 3 | 25-MAY-2012 15:12 | 0524A006.d | 1 | INDAE | |
| 4 | 25-MAY-2012 15:31 | 0524A007.d | 1 | INDAA | |
| 5 | 25-MAY-2012 15:50 | 0524A008.d | 1 | INDAB | |
| 6 | 25-MAY-2012 16:09 | 0524A009.d | 1 | INDAC | |
| 7 | 25-MAY-2012 16:28 | 0524A010.d | 1 | INDAD | |
| 8 | 25-MAY-2012 16:47 | 0524A011.d | 1 | INDAF | |
| 9 | 25-MAY-2012 17:06 | 0524A012.d | 1 | IDNAG | |
| 10 | 25-MAY-2012 17:25 | 0524A013.d | 1 | INDA ICV | |
| 11 | 25-MAY-2012 17:43 | 0524A014.d | 1 | HCB/HCBD ICV | |
| 12 | 25-MAY-2012 18:02 | 0524A015.d | 1 | TOXAPH 2500 | |
| 13 | 25-MAY-2012 18:21 | 0524A016.d | 1 | WNDE | |
| 14 | 25-MAY-2012 18:40 | 0524A017.d | 1 | WNDA | |
| 15 | 25-MAY-2012 18:59 | 0524A018.d | 1 | WNDB | |
| 16 | 25-MAY-2012 19:18 | 0524A019.d | 1 | WNDC | |
| 17 | 25-MAY-2012 19:37 | 0524A020.d | 1 | WNDD | |
| 18 | 25-MAY-2012 19:56 | 0524A021.d | 1 | WNDF | |
| 19 | 25-MAY-2012 20:14 | 0524A022.d | 1 | WNDG | |
| 20 | 25-MAY-2012 20:33 | 0524A023.d | 1 | WND ICV | |
| 21 | 25-MAY-2012 20:52 | 0524A024.d | 1 | OPDDTS ICV | |
| 22 | 25-MAY-2012 21:11 | 0524A025.d | 1 | DDT RT | |
| 23 | 25-MAY-2012 21:30 | 0524A026.d | 1 | TECH 200 | |
| 24 | 25-MAY-2012 21:49 | 0524A027.d | 1 | DS - Passes | |
| 25 | 25-MAY-2012 22:08 | 0524A028.d | 1 | IB - UR | |
| 26 | 25-MAY-2012 22:27 | 0524A029.d | 1 | INDAE - HCB \downarrow C ₂ | |
| 27 | 25-MAY-2012 22:46 | 0524A030.d | 1 | UU57MBW2 | |
| 28 | 25-MAY-2012 23:04 | 0524A031.d | 1 | UU57LCSW2 | |
| 29 | 25-MAY-2012 23:23 | 0524A032.d | 1 | UU57LCSDW2 | |
| 30 | 25-MAY-2012 23:42 | 0524A033.d | 5 | UU57I | |
| 31 | 26-MAY-2012 00:01 | 0524A034.d | 2 | US34G | |
| 32 | 26-MAY-2012 00:20 | 0524A035.d | 1 | WND ICV | |
| 33 | 26-MAY-2012 00:39 | 0524A036.d | 1 | TECH 200 | |
| 34 | 26-MAY-2012 00:58 | 0524A037.d | 1 | DS - Passes | |
| 35 | 26-MAY-2012 01:17 | 0524A038.d | 1 | INDAE - HCB \downarrow C ₂ | |
| 36 | 26-MAY-2012 01:35 | 0524A039.d | 1 | UU52MBS1 | UU52MBS1 |
| 37 | 26-MAY-2012 01:54 | 0524A040.d | 1 | UU52A | MS001-SS-120515 |
| 38 | 26-MAY-2012 02:13 | 0524A041.d | 1 | UU52B | MS101-SS-120515 |
| 39 | 26-MAY-2012 02:32 | 0524A042.d | 1 | UU52C | MS002-SS-120515 |
| 40 | 26-MAY-2012 02:51 | 0524A043.d | 1 | UU52D | MS003-SS-120515 |
| 41 | 26-MAY-2012 03:10 | 0524A044.d | 1 | UU52E | MS004-SS-120515 |
| 42 | 26-MAY-2012 03:29 | 0524A045.d | 1 | UU52F | MS005-SS-120515 |
| 43 | 26-MAY-2012 03:48 | 0524A046.d | 1 | UU52G | MS006-SS-120515 |
| 44 | 26-MAY-2012 04:07 | 0524A047.d | 1 | UU52H | MS007-SS-120515 |
| 45 | 26-MAY-2012 04:25 | 0524A048.d | 1 | UU52I | MS008-SS-120515 |
| 46 | 26-MAY-2012 04:44 | 0524A049.d | 1 | UU52J | MS009-SS-120515 |
| 47 | 26-MAY-2012 05:03 | 0524A050.d | 1 | WND ICV | |
| 48 | 26-MAY-2012 05:22 | 0524A051.d | 1 | TECH 200 | |
| 49 | 26-MAY-2012 05:41 | 0524A052.d | 1 | DS - Passes | |
| 50 | 26-MAY-2012 06:00 | 0524A053.d | 1 | INDAE - HCB \downarrow C ₂ & TCMX \downarrow C ₂ | |

Acid
Cleaned
PCB
Exts

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|-----|--|--|
| 51 | 26-MAY-2012 06:19 | 0524A054.d | 1 | UU52MBS1 | UU52MBS1 |
| 52 | 26-MAY-2012 06:38 | 0524A055.d | 1 | UU52LCSS1 | UU52LCSS1 |
| 53 | 26-MAY-2012 06:56 | 0524A056.d | 100 | UU52A | MS001-SS-120515 |
| 54 | 26-MAY-2012 07:15 | 0524A057.d | 100 | UU52B | MS101-SS-120515 |
| 55 | 26-MAY-2012 07:34 | 0524A058.d | 100 | UU52C | MS002-SS-120515 |
| 56 | 26-MAY-2012 07:53 | 0524A059.d | 100 | UU52CMS | MS002-SS-120515 MS |
| 57 | 26-MAY-2012 08:12 | 0524A060.d | 100 | UU52CMSD | MS002-SS-120515 MSD |
| 58 | 26-MAY-2012 08:31 | 0524A061.d | 100 | UU52D | MS003-SS-120515 |
| 59 | 26-MAY-2012 08:50 | 0524A062.d | 100 | UU52E | MS004-SS-120515 |
| 60 | 26-MAY-2012 09:09 | 0524A063.d | 100 | UU52F | MS005-SS-120515 |
| 61 | 26-MAY-2012 09:27 | 0524A064.d | 1 | DCM | |
| 62 | 26-MAY-2012 09:46 | 0524A065.d | 1 | WND ICV | |
| 63 | 26-MAY-2012 10:05 | 0524A066.d | 1 | TECH 200 | |
| 64 | 26-MAY-2012 10:24 | 0524A067.d | 1 | DS - DDT bcl > 15% @ 27.5 # 40.6% | |
| 65 | 26-MAY-2012 10:43 | 0524A068.d | 1 | INDAE - DDE ↓ C ₁ , DDT ↓ C ₂ , Methoxychlor ↓ C ₂ , HCB ↓ C ₁ , HCBV ↓ C ₁ | |
| 66 | 26-MAY-2012 11:02 | 0524A069.d | 10 | UU52G | MS006-SS-120515 TCX ↓ C ₁ # DCBP ↓ C ₁ |
| 67 | 26-MAY-2012 11:21 | 0524A070.d | 100 | UU52H | MS007-SS-120515 |
| 68 | 26-MAY-2012 11:40 | 0524A071.d | 100 | UU52I | MS008-SS-120515 |
| 69 | 26-MAY-2012 11:59 | 0524A072.d | 100 | UU52J | MS009-SS-120515 |
| 70 | 26-MAY-2012 12:18 | 0524A073.d | 1 | DCM | |
| 71 | 26-MAY-2012 12:36 | 0524A074.d | 1 | WND ICV | |
| 72 | 26-MAY-2012 12:55 | 0524A075.d | 1 | TECH 200 | |
| 73 | 26-MAY-2012 13:14 | 0524A076.d | 1 | DS - DDT bcl > 15% @ 48.1 # 65.8% | |
| 74 | 26-MAY-2012 13:33 | 0524A077.d | 1 | INDAE - DDE ↓ C ₁ , DDD ↑ C ₂ , DDT ↓ bc, Methoxychlor ↓ bc, | |
| 75 | 26-MAY-2012 13:52 | 0524A078.d | 1 | TOXAPH 2500 - NR | Endrin Ketone ↓ C ₂ , HCB ↓ bc, |
| 76 | 26-MAY-2012 14:11 | 0524A079.d | 1 | WNDE - NR | HCB ↓ bc, TCX ↓ C ₁ # DCBP ↓ C ₁ |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A038.d ARI ID: INDAE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A038.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 01:17
 Compound Sublist: INDA Report Date: 05/29/2012 09:31
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|----------|----------|------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1070501 | 3.297 | 0.001 | 1741963 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.456 | 0.003 | 429239 | 4.931 | 0.002 | 722590 | 20.8811 | 19.9326 | 4.6 | alpha-BHC A B | |
| 4.851 | 0.005 | 147881 | 5.370 | 0.004 | 287963 | 18.6884 | 19.0492 | 1.9 | beta-BHC A B | |
| 5.015 | 0.005 | 330005 | 5.657 | 0.004 | 520086 | 20.1936 | 19.4449 | 3.8 | delta-BHC A B | |
| 4.758 | 0.003 | 332321 | 5.285 | 0.003 | 618698 | 19.8891 | 20.4317 | 2.7 | gamma-BHC (Lindane) A B | |
| 5.204 | 0.003 | 342151 | 5.716 | 0.003 | 617481 | 20.7646 | 22.4043 | 7.6 | Heptachlor A B | |
| 5.480 | 0.003 | 417815 | 6.032 | 0.003 | 670288 | 21.3187 | 19.6989 | 7.9 | Aldrin A B | |
| 6.031 | 0.003 | 354172 | 6.570 | 0.003 | 559602 | 20.1793 | 19.7303 | 2.2 | Heptachlor epoxide b A B | |
| 6.388 | 0.004 | 597302 | 6.945 | 0.003 | 545985 | 21.6040 | 19.8108 | 8.7 | Endosulfan I A B | |
| 6.605 | 0.004 | 806432 | 7.202 | 0.003 | 1194807 | 42.9864 | 40.7711 | 5.3 | Dieldrin A B | |
| 6.350 | 0.014 | 464236 | 7.031 | 0.008 | 1181503 | 30.3501 | 36.5395 | 18.5 | 4,4'-DDE A B | |
| 6.815 | 0.004 | 658723 | 7.493 | 0.003 | 915073 | 44.1555 | 39.7433 | 10.5 | Endrin A B | |
| 7.020 | 0.004 | 652423 | 7.689 | 0.003 | 1007618 | 42.5282 | 41.0813 | 3.5 | Endosulfan II A B | |
| 6.886 | 0.012 | 457313 | 7.572 | 0.007 | 799250 | 37.6566 | 38.1591 | 1.3 | 4,4'-DDD A B | |
| 7.800 | 0.004 | 532333 | 8.262 | 0.004 | 872322 | 41.5026 | 42.3330 | 2.0 | Endosulfan sulfate A B | |
| 7.132 | 0.008 | 384736 | 7.864 | 0.006 | 608403 | 46.7312 | 46.5769 | 0.3 | 4,4'-DDT A BN | |
| 7.568 | 0.007 | 1025797 | 8.493 | 0.005 | 1539273 | 219.5136 | 230.7903 | 5.0 | Methoxychlor A B | |
| 8.060 | 0.004 | 617425 | 8.784 | 0.004 | 971323 | 38.7134 | 43.6446 | 12.0 | Endrin ketone A B | |
| 7.400 | 0.004 | 513777 | 8.002 | 0.004 | 780824 | 42.0825 | 37.6445 | 11.1 | Endrin aldehyde A B | |
| 6.146 | 0.003 | 359847 | 6.749 | 0.004 | 615824 | 20.4841 | 20.1820 | 1.5 | gamma-Chlordane A B | |
| 6.265 | 0.004 | 367832 | 6.885 | 0.003 | 585569 | 20.3093 | 19.1215 | 6.0 | alpha-Chlordane A B | |
| 1.729 | 0.001 | 599657 | 2.037 | 0.000 | 925889 | 18.3616 | 16.8193 | 8.8 | Hexachlorobutadiene A B | |
| 4.291 | 0.004 | 311424 | 4.794 | 0.003 | 510872 | 16.5955 | 15.3696 | 7.7 | Hexachlorobenzene A B | |
| 9.145 | 0.007 | 1373176 | 10.438 | 0.005 | 1932735 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 3.899 | 0.002 | 531188 | 4.301 | 0.002 | 1355338 | 35.0542 | 32.3720 | 8.0 | Tetrachloro-m-xylene A B | |
| 8.985 | 0.005 | 843044 | 9.926 | 0.005 | 1101511 | 36.3357 | 33.9057 | 6.9 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 87.6 | 80.9 | 80.9~ | 85-115 |
| Decachlorobiphenyl | 90.8 | 84.8 | 84.8~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 1070501 | 28.0 |
| Hexabromobiphenyl | 1091107 | 1373176 | 25.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1741963 | 39.5 |
| Hexabromobiphenyl | 1339634 | 1932735 | 44.3 |

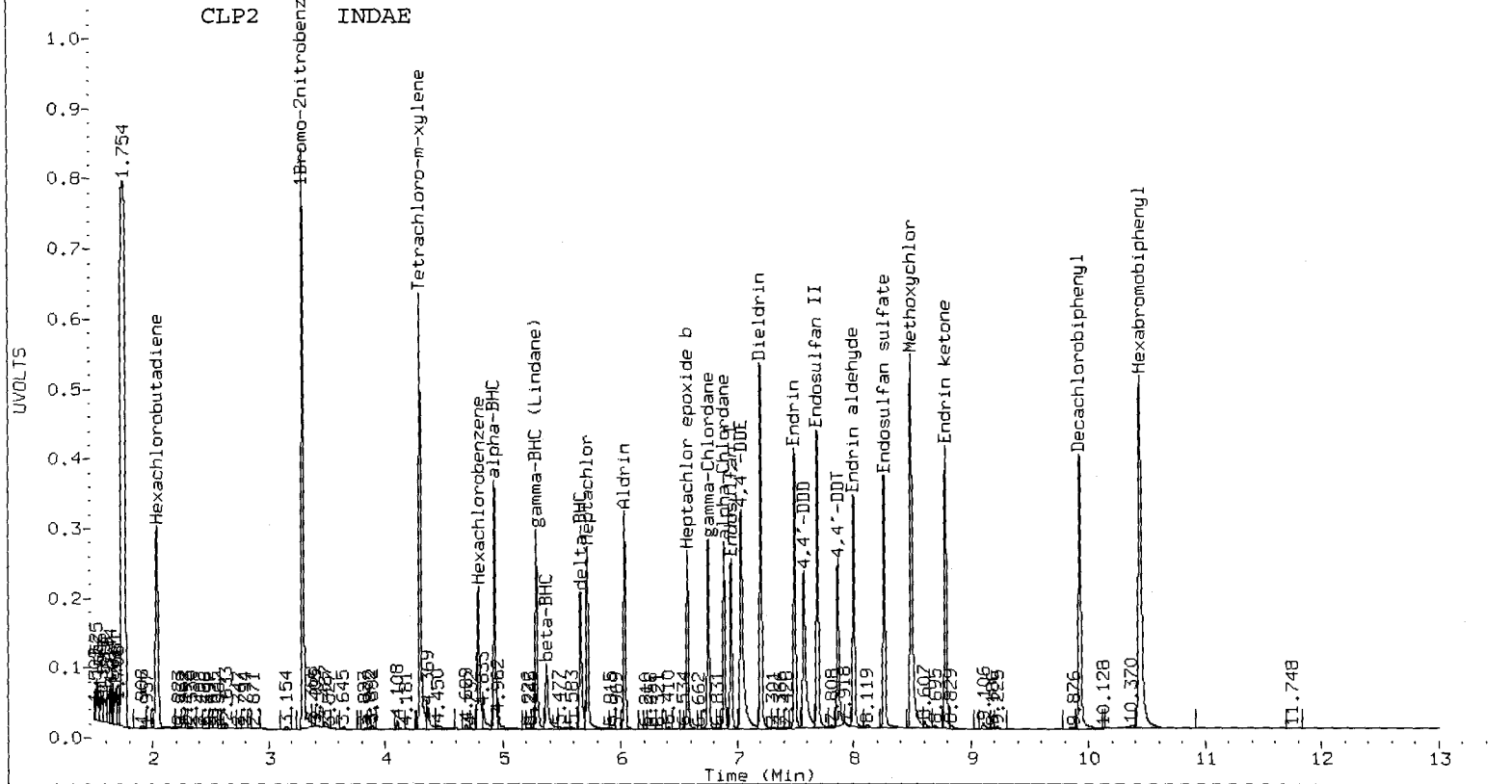
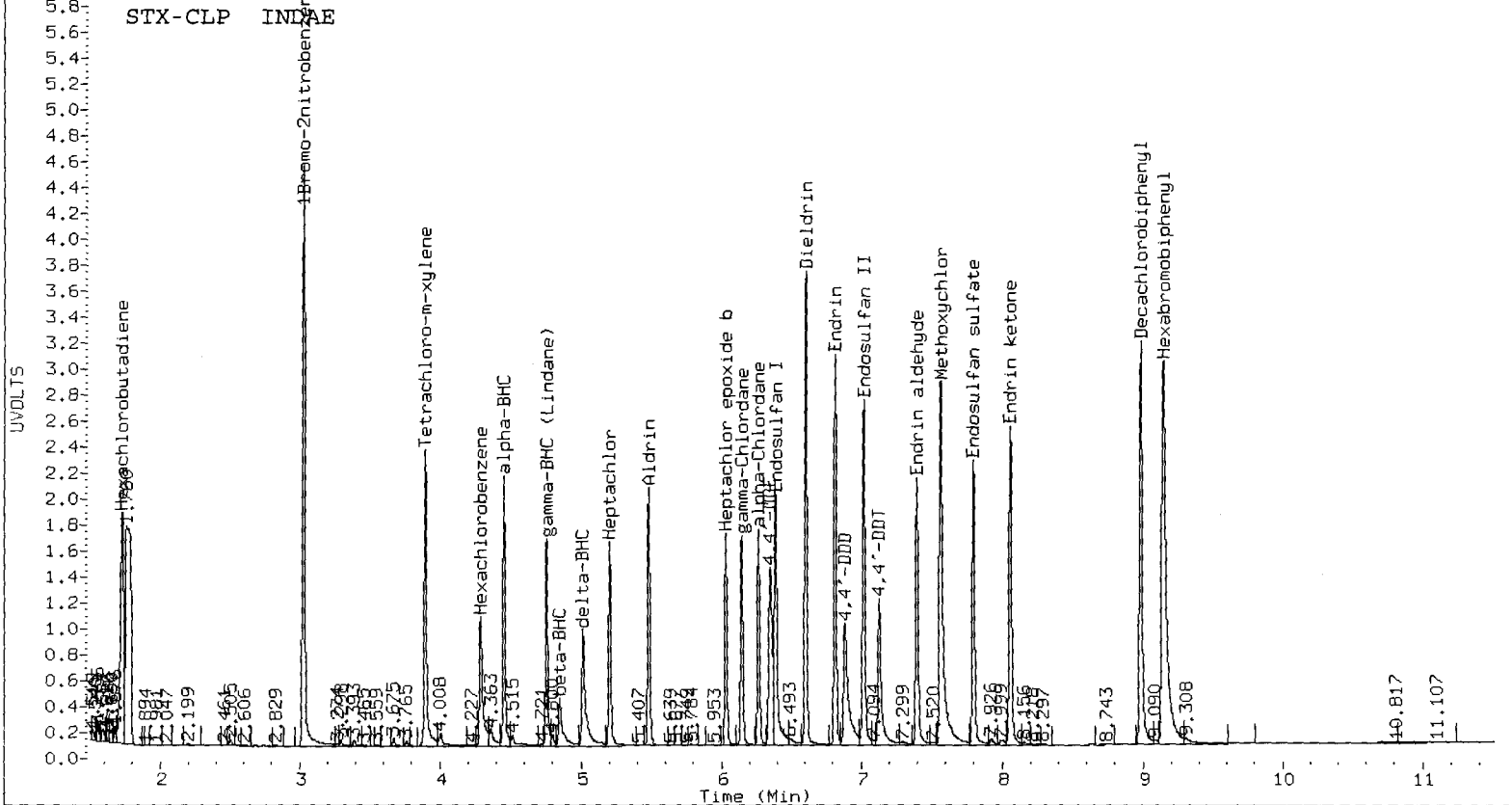
* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

=====



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A053.d ARI ID: INDAE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A053.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 06:00
 Compound Sublist: INDA Report Date: 05/29/2012 10:50
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|----------|----------|------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.030 | 0.000 | 1236508 | 3.296 | 0.000 | 1702782 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.454 | 0.001 | 504550 | 4.930 | 0.001 | 731244 | 21.2495 | 20.6355 | 2.9 | alpha-BHC A B | |
| 4.848 | 0.002 | 174787 | 5.368 | 0.002 | 280856 | 19.1232 | 19.0066 | 0.6 | beta-BHC A B | |
| 5.012 | 0.002 | 402777 | 5.655 | 0.002 | 567071 | 21.3377 | 21.6895 | 1.6 | delta-BHC A B | |
| 4.757 | 0.001 | 431729 | 5.284 | 0.001 | 608614 | 22.3696 | 20.5612 | 8.4 | gamma-BHC (Lindane) A B | |
| 5.203 | 0.002 | 438315 | 5.714 | 0.001 | 538743 | 23.0293 | 19.9972 | 14.1 | Heptachlor A B | |
| 5.479 | 0.001 | 474227 | 6.030 | 0.002 | 651998 | 20.9485 | 19.6024 | 6.6 | Aldrin A B | |
| 6.030 | 0.002 | 414043 | 6.569 | 0.002 | 507625 | 20.4234 | 18.3096 | 10.9 | Heptachlor epoxide b A B | |
| 6.387 | 0.002 | 572187 | 6.944 | 0.002 | 487564 | 17.9171 | 18.0981 | 1.0 | Endosulfan I A B | |
| 6.604 | 0.003 | 939908 | 7.201 | 0.002 | 1048746 | 43.3749 | 36.6105 | 16.9 | Dieldrin A B | |
| 6.340 | 0.004 | 594178 | 7.026 | 0.003 | 1171415 | 33.4877 | 37.0611 | 10.1 | 4,4'-DDE A B | |
| 6.815 | 0.003 | 782815 | 7.491 | 0.002 | 790436 | 47.4195 | 36.3680 | 26.4 | Endrin A B | |
| 7.019 | 0.003 | 778793 | 7.688 | 0.002 | 890843 | 45.8761 | 38.4763 | 17.5 | Endosulfan II A B | |
| 6.880 | 0.006 | 580478 | 7.568 | 0.004 | 747896 | 43.1946 | 37.8269 | 13.3 | 4,4'-DDD A B | |
| 7.798 | 0.003 | 658149 | 8.260 | 0.002 | 750075 | 46.3695 | 38.5612 | 18.4 | Endosulfan sulfate A B | |
| 7.128 | 0.004 | 401580 | 7.861 | 0.003 | 532147 | 44.0790 | 43.1574 | 2.1 | 4,4'-DDT A BMN | |
| 7.565 | 0.004 | 1166369 | 8.490 | 0.002 | 1245025 | 225.5549 | 197.7534 | 13.1 | Methoxychlor A BM | |
| 8.059 | 0.003 | 828130 | 8.783 | 0.002 | 772654 | 46.9236 | 36.7786 | 24.2 | Endrin ketone A B | |
| 7.399 | 0.003 | 594461 | 8.000 | 0.001 | 706440 | 44.0014 | 36.0801 | 19.8 | Endrin aldehyde A B | |
| 6.144 | 0.002 | 430395 | 6.748 | 0.002 | 566513 | 21.2108 | 18.9932 | 11.0 | gamma-Chlordane A B | |
| 6.264 | 0.002 | 416242 | 6.884 | 0.002 | 554289 | 19.8967 | 18.5166 | 7.2 | alpha-Chlordane A B | |
| 1.729 | 0.001 | 638094 | 2.037 | 0.000 | 899159 | 16.9154 | 16.7096 | 1.2 | Hexachlorobutadiene A B | |
| 4.288 | 0.001 | 337658 | 4.792 | 0.001 | 538811 | 15.5778 | 16.5831 | 7.2 | Hexachlorobiphenyl A B | |
| 9.139 | 0.001 | 1519532 | 10.436 | 0.002 | 1824435 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A BM | |
| 3.897 | 0.000 | 550547 | 4.299 | 0.000 | 1385564 | 31.4540 | 33.8554 | 7.2 | Tetrachloro-m-xylene A B | |
| 8.983 | 0.003 | 822950 | 9.925 | 0.004 | 1016381 | 32.0534 | 33.1424 | 3.3 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|--------|-------|--------|
| Tetrachloro-m-xylene | 78.6 | 84.6 ✓ | 78.6~ | 85-115 |
| Decachlorobiphenyl | 80.1 | 82.9 | 80.1~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

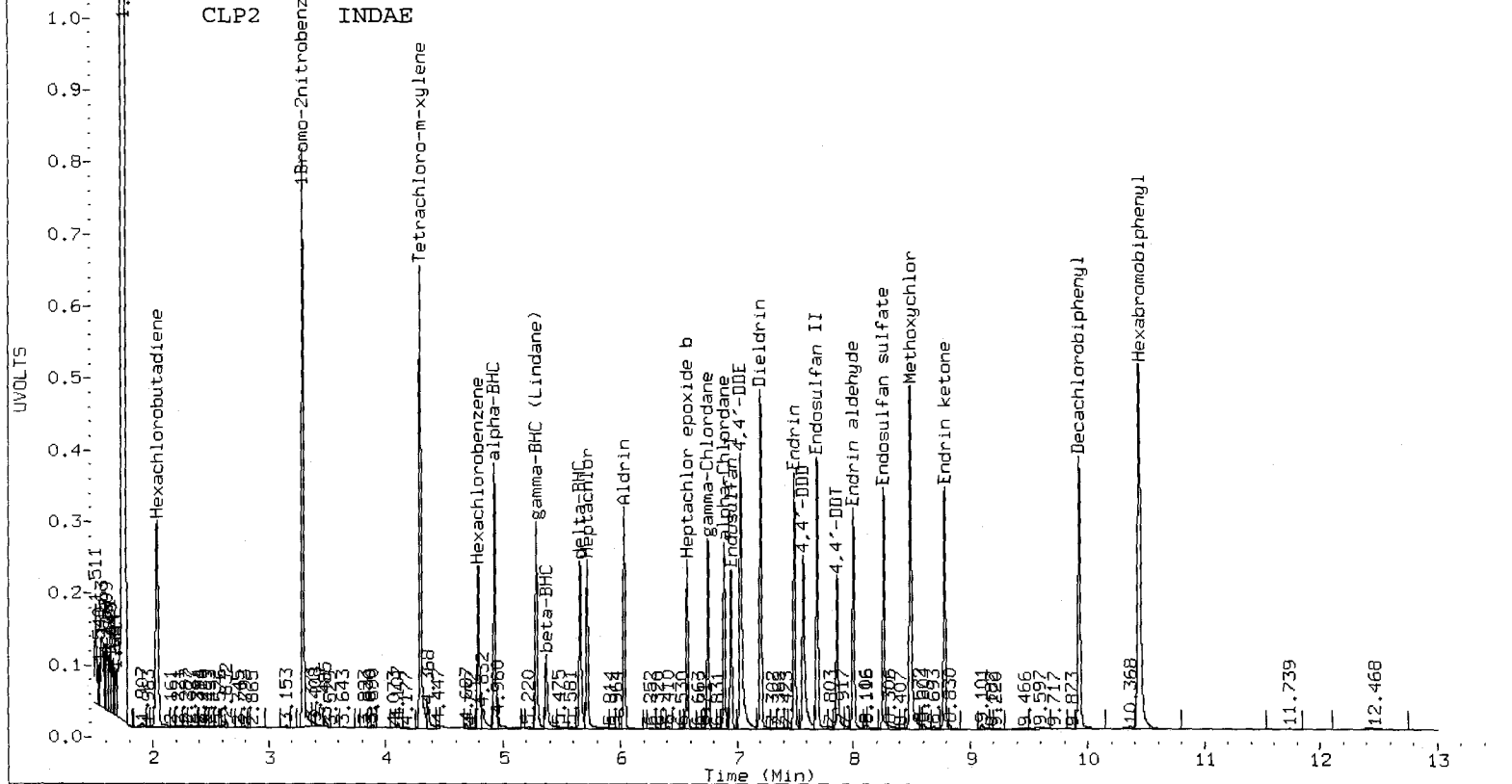
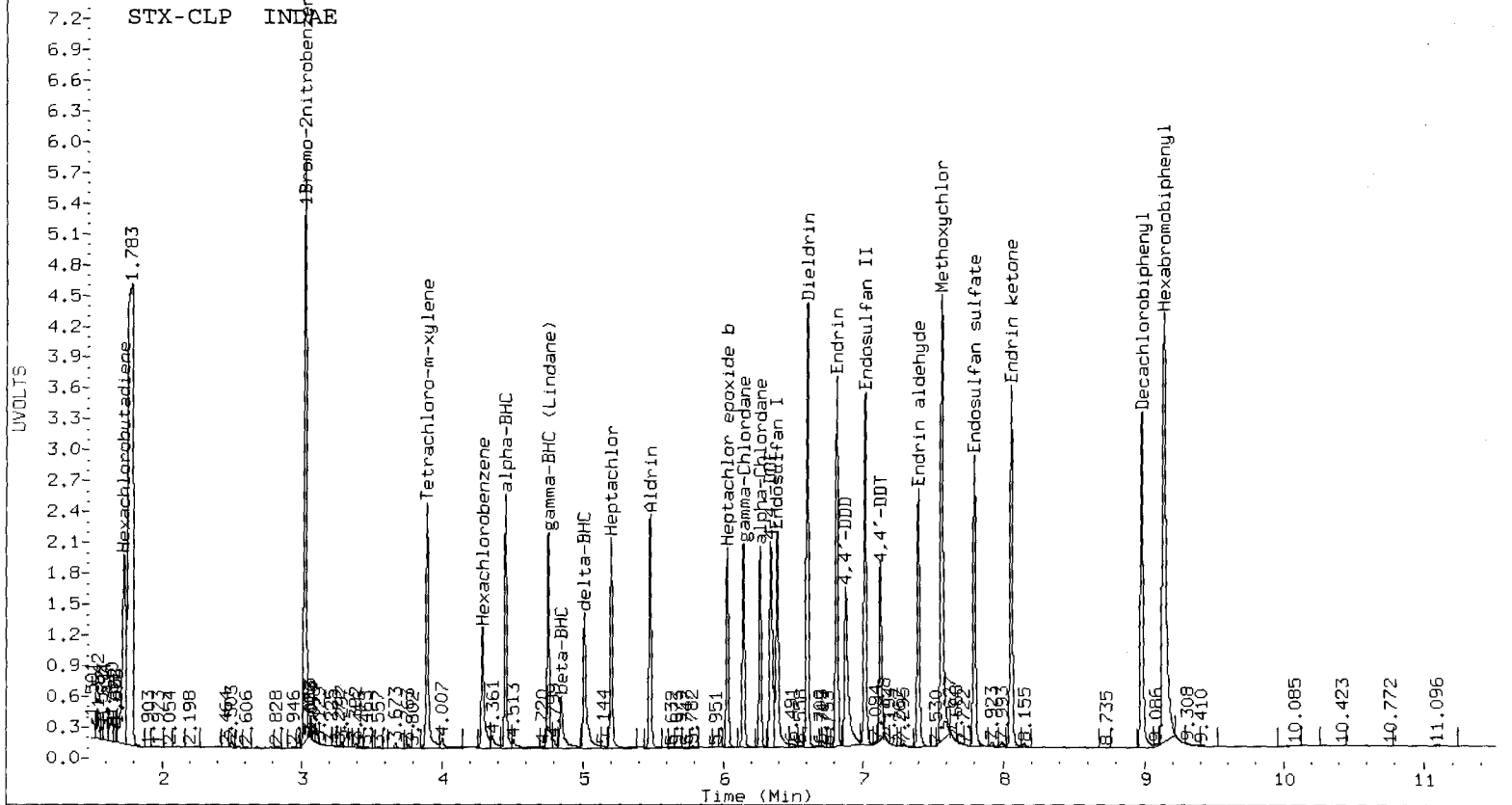
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 1236508 | 47.8 |
| Hexabromobiphenyl | 1091107 | 1519532 | 39.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1702782 | 36.4 |
| Hexabromobiphenyl | 1339634 | 1824435 | 36.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

=====



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A059.d ARI ID: UU52CMS
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A059.d Client ID: MS002-SS-120515 MS
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 07:53
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1542820 | 3.297 | 0.001 | 1933553 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.454 | 0.001 | 24328 | 4.932 | 0.003 | 19165 | 0.8212 | 0.4763 | 53.2* | alpha-BHC A B | |
| 4.867 | 0.021 | 196618 | 5.366 | -0.001 | 5052 | 17.2407 | 0.3011 | 193.1* | beta-BHC A B | |
| 5.024 | 0.013 | 28930 | 5.647 | -0.006 | 21618 | 1.2283 | 0.7282 | 51.1* | delta-BHC A B | |
| 4.757 | 0.002 | 14563 | 5.268 | -0.014 | 51343 | 0.6048 | 1.5275 | 86.6* | gamma-BHC (Lindane) A B | |
| 5.206 | 0.004 | 15748 | 5.717 | 0.003 | 8619 | 0.6631 | 0.2817 | 80.7* | Heptachlor A B | |
| 5.480 | 0.003 | 4644 | 6.014 | -0.015 | 42939 | 0.1644 | 1.1369 | 149.5* | Aldrin A B | |
| 6.034 | 0.006 | 14905 | 6.569 | 0.002 | 14407 | 0.5892 | 0.4576 | 25.1 | Heptachlor epoxide b A B | |
| 6.396 | 0.012 | 11632 | 6.949 | 0.007 | 14731 | 0.2919 | 0.4815 | 49.0* | Endosulfan I A B | |
| 6.605 | 0.003 | 11139 | 7.202 | 0.003 | 16180 | 0.4120 | 0.4974 | 18.8 | Dieldrin A B | |
| 6.336 | 0.000 | 13791 | 7.025 | 0.001 | 15925 | 0.6496 | 0.4437 | 37.7 | 4,4'-DDE A B | |
| 6.818 | 0.006 | 5352 | 7.495 | 0.005 | 14622 | 0.2793 | 0.5701 | 68.5* | Endrin A B | |
| 7.019 | 0.004 | 8183 | 7.690 | 0.004 | 21201 | 0.4152 | 0.7760 | 60.6* | Endosulfan II A B | |
| 6.874 | 0.000 | 25015 | 7.565 | 0.001 | 15854 | 1.6034 | 0.6795 | 80.9* | 4,4'-DDD A B | |
| 7.801 | 0.006 | 11603 | 8.256 | -0.002 | 16202 | 0.7042 | 0.7059 | 0.2 | Endosulfan sulfate A B | |
| 7.128 | 0.004 | 13890 | 7.865 | 0.007 | 24748 | 1.3133 | 1.7008 | 25.7 | 4,4'-DDT A B | |
| 7.562 | 0.002 | 30292 | 8.490 | 0.002 | 13419 | 5.0459 | 1.8062 | 94.6* | Methoxychlor A B | |
| 8.065 | 0.009 | 23664 | 8.786 | 0.006 | 15606 | 1.1550 | 0.6295 | 58.9* | Endrin ketone A B | |
| 7.396 | 0.000 | 25449 | 8.001 | 0.002 | 5506 | 1.6226 | 0.2383 | 148.8* | Endrin aldehyde A B | |
| 6.144 | 0.002 | 12498 | 6.768 | 0.022 | 17228 | 0.4937 | 0.5087 | 3.0 | gamma-Chlordane A B | |
| 6.266 | 0.005 | 5333 | 6.885 | 0.003 | 9787 | 0.2043 | 0.2879 | 34.0 | alpha-Chlordane A B | |
| 1.729 | 0.001 | 22169 | 2.038 | 0.001 | 7787 | 0.4710 | 0.1275 | 114.8* | Hexachlorobutadiene A B | |
| 4.287 | 0.000 | 17114 | 4.793 | 0.002 | 17740 | 0.6328 | 0.4808 | 27.3 | Hexachlorobenzene A B | |
| 5.940 | 0.001 | 5620 | 6.470 | -0.012 | 54714 | 0.3163 | 2.2006 | 149.7* | Oxychlordane A B | |
| 5.988 | -0.039 | 4251 | 6.730 | -0.006 | 7254 | 0.3031 | 0.3395 | 11.3 | 2,4-DDE A B | |
| 6.214 | -0.036 | 76441 | 6.822 | -0.010 | 46505 | 3.7977 | 1.4692 | 88.4* | trans-Nonachlor A B | |
| 6.481 | -0.011 | 6536 | 7.242 | 0.027 | 14806 | 0.6526 | 0.8924 | 31.0 | 2,4-DDD A B | |
| 6.692 | -0.026 | 4299 | 7.527 | 0.025 | 11755 | 0.4269 | 0.8037 | 61.2* | 2,4-DDT A B | |
| 6.842 | -0.002 | 7284 | 7.600 | 0.043 | 4344 | 0.3174 | 0.1266 | 85.9* | cis-Nonachlor A B | |
| 7.694 | -0.015 | 15171 | 8.761 | 0.002 | 6656 | 1.1138 | 0.3009 | 114.9* | Mirex A B | |
| 9.133 | -0.005 | 1764083 | 10.433 | -0.001 | 2152932 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.768 | -0.001 | 24953 | 1.760 | 0.008 | 5888346 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.898 | 0.002 | 24169 | 4.302 | 0.003 | 17453 | 1.1067 | 0.3756 | 98.7* | Tetrachloro-m-xylene A B | |
| 8.985 | 0.005 | 15979 | 9.929 | 0.008 | 14020 | 0.5361 | 0.3874 | 32.2 | Decachlorobiphenyl A B | |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01404

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-----------|-----------|------------|--------|
| Tetrachloro-m-xylene | 2.8 | 0.9 | 0.9~ | 29-110 |
| Decachlorobiphenyl | 1.3 | 1.0 | 1.0~ | 18-151 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0~ | 0- 0 |
| Endrin | 1396286.9 | 2850637.8 | 1396286.9~ | 10-200 |
| 4,4'-DDD | 0.0 | 0.0 | 0.0~ | 0- 0 |
| 4,4'-DDT | 6566328.6 | 8504164.1 | 6566328.6~ | 0- 0 |
| Endrin ketone | 0.0 | 0.0 | 0.0~ | 0- 0 |
| Endrin aldehyde | 0.0 | 0.0 | 0.0~ | 0- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1542820 | 84.5 |
| Hexabromobiphenyl | 1091107 | 1764083 | 61.7 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1933553 | 54.9 |
| Hexabromobiphenyl | 1339634 | 2152932 | 60.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|--------|---|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.086 | 0.018 | 14666 | 16.556 | 1 | 7.752 | -0.007 | 6396 | 5.046 |
| Toxaphene | 2 | 7.128 | 0.009 | 13890 | 22.481 | 2 | 8.001 | 0.000 | 5506 | 3.937 |
| Toxaphene | 3 | 7.510 | -0.013 | 43096 | 76.986 | 3 | 8.256 | 0.002 | 16202 | 26.948 |
| Toxaphene | 4 | 7.694 | -0.010 | 15171 | 16.282 | 4 | 8.490 | -0.006 | 13419 | 11.401 |
| Toxaphene | 5 | 7.752 | 0.001 | 5102 | 7.016 | 5 | 9.030 | -0.009 | 5864 | 12.922 |
| Toxaphene | 6 | 8.021 | -0.016 | 6680 | 12.672 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 25.332 | | | | | | Total CLP2Ave (5 peaks): 12.051 RPD = 71* | | | | |
| Corrected Ave (5 peaks): 15.001 | | | | | | Corrected Ave (4 peaks): 8.326 RPD = 57* | | | | |

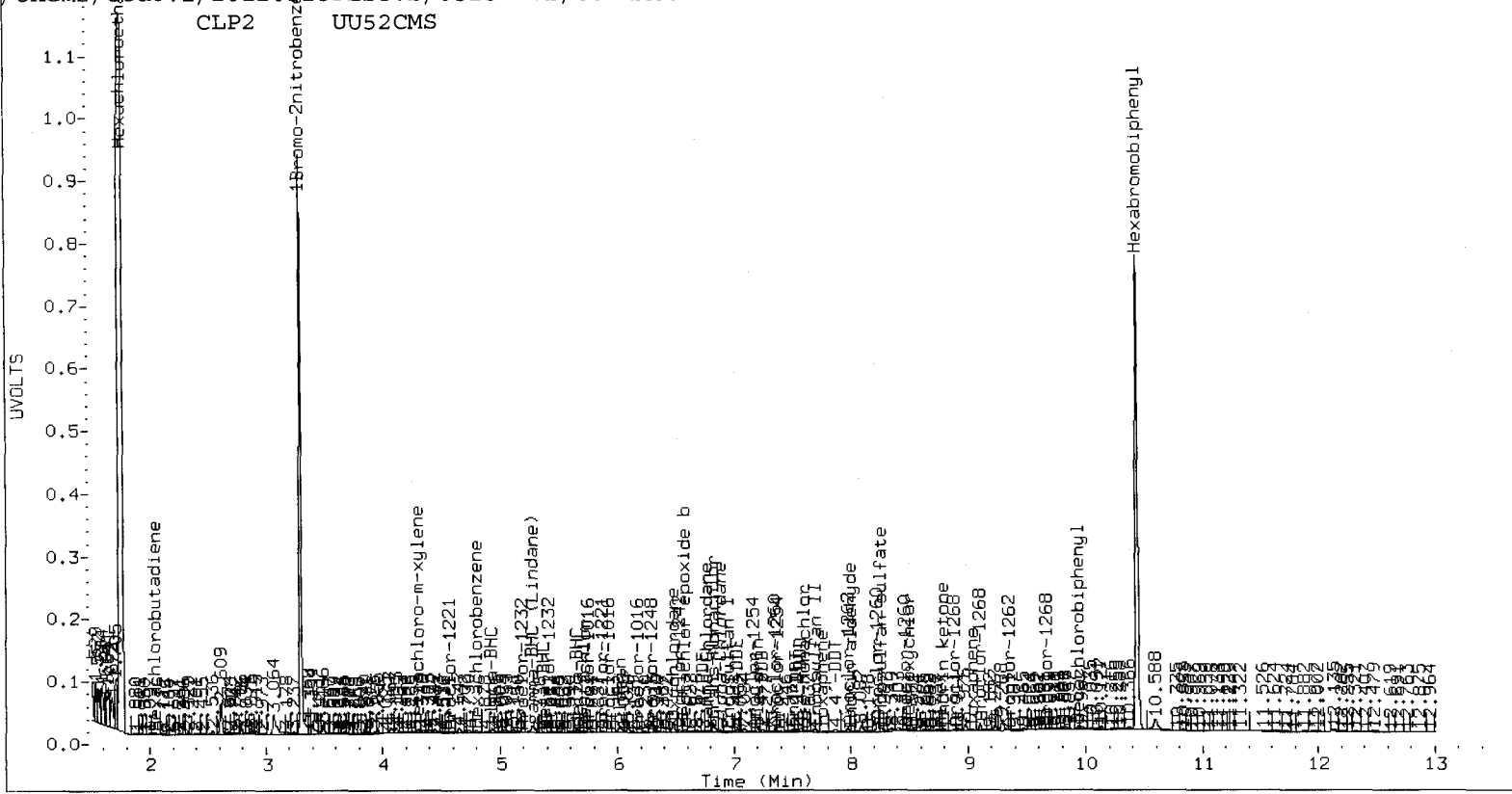
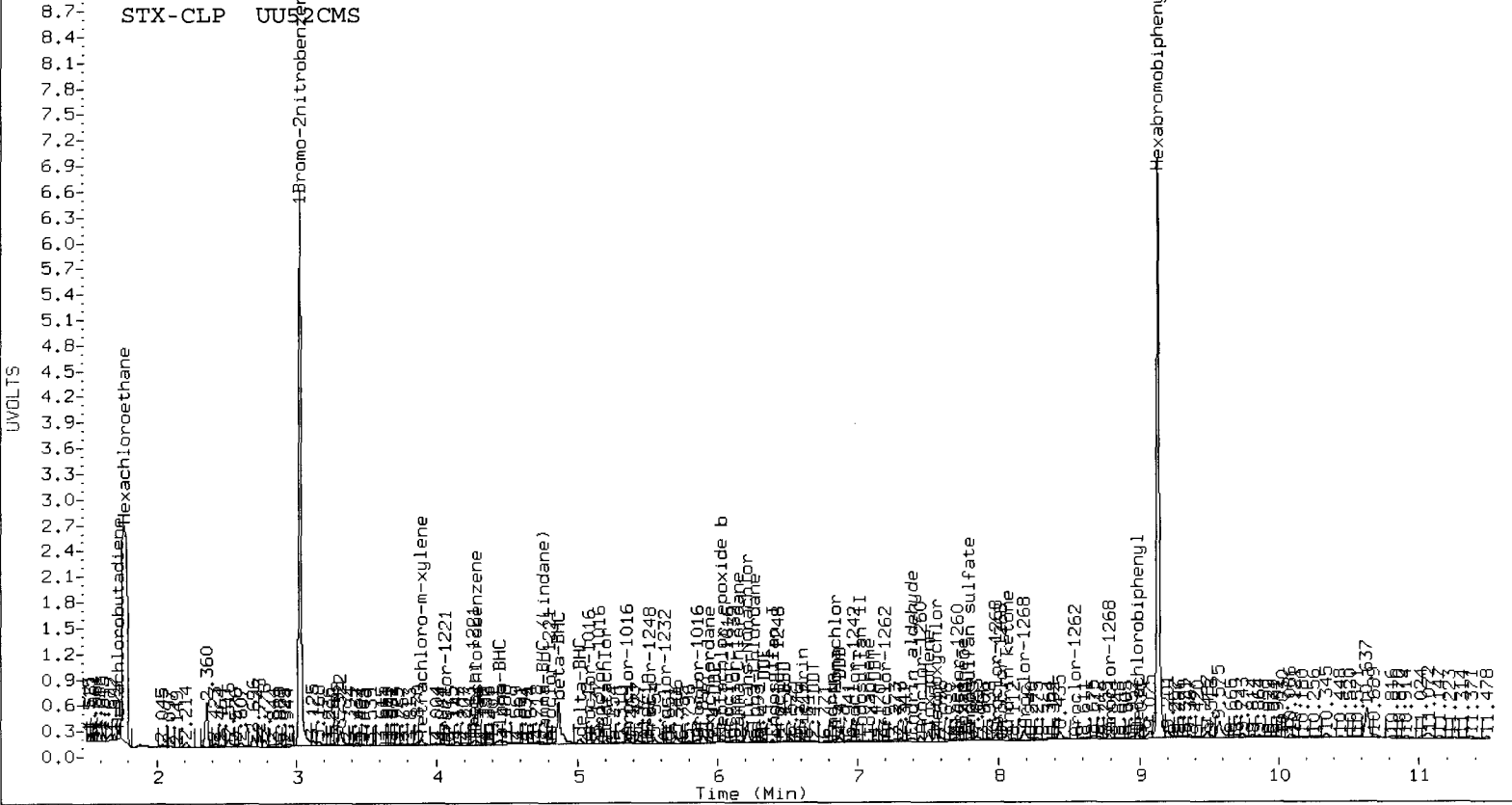
| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |
|----------------------------|-----|-------|---|-------------------------|-------|--|--|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 | | |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 | | |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 | | |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 | | |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 | | |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 | | |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 | | |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 | | |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 | | |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 | | |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 | | |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 | | |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 | | |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 | | |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 | | |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 | | |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 | | |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 | | |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 | | |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 | | |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 | | |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 | | |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 | | |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 | | |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 | | |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A060.d ARI ID: UU52CMSD
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A060.d Client ID: MS002-SS-120515 MSD
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 08:12
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.032 | 0.002 | 1496969 | 3.299 | 0.002 | 1900593 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.454 | 0.001 | 13409 | 4.932 | 0.003 | 17838 | 0.4665 | 0.4510 | 3.4 | alpha-BHC A B | |
| 4.868 | 0.022 | 139572 | 5.366 | 0.000 | 4422 | 12.6134 | 0.2681 | 191.7* | beta-BHC A B | |
| 5.024 | 0.013 | 18303 | 5.648 | -0.005 | 14451 | 0.8009 | 0.4952 | 47.2* | delta-BHC A B | |
| 4.758 | 0.002 | 9106 | 5.284 | 0.001 | 20196 | 0.3897 | 0.6113 | 44.3* | gamma-BHC (Lindane) A B | |
| 5.206 | 0.004 | 11307 | 5.718 | 0.004 | 4410 | 0.4907 | 0.1467 | 108.0* | Heptachlor A B | |
| 5.481 | 0.004 | 3384 | 6.015 | -0.014 | 34398 | 0.1235 | 0.9265 | 153.0* | Aldrin A B | |
| 6.034 | 0.006 | 12044 | 6.571 | 0.004 | 14031 | 0.4907 | 0.4534 | 7.9 | Heptachlor epoxide b A B | |
| 6.396 | 0.011 | 10119 | 6.949 | 0.007 | 13464 | 0.2617 | 0.4478 | 52.4* | Endosulfan I A B | |
| 6.605 | 0.004 | 9915 | 7.204 | 0.005 | 15104 | 0.3779 | 0.4724 | 22.2 | Dieldrin A B | |
| 6.336 | 0.000 | 11166 | 7.026 | 0.003 | 14316 | 0.5421 | 0.4058 | 28.8 | 4,4'-DDE A B | |
| 6.818 | 0.006 | 4569 | 7.495 | 0.006 | 13323 | 0.2405 | 0.5251 | 74.3* | Endrin A B | |
| 7.020 | 0.005 | 6512 | 7.691 | 0.005 | 19269 | 0.3334 | 0.7129 | 72.5* | Endosulfan II A B | |
| 6.874 | 0.000 | 21599 | 7.566 | 0.002 | 14969 | 1.3966 | 0.6485 | 73.2* | 4,4'-DDD A B | |
| 7.801 | 0.006 | 5186 | 8.258 | -0.001 | 14734 | 0.3175 | 0.6488 | 68.6* | Endosulfan sulfate A B | |
| 7.128 | 0.005 | 8980 | 7.868 | 0.010 | 22754 | 0.8565 | 1.5807 | 59.4* | 4,4'-DDT A B | |
| 7.564 | 0.003 | 14286 | 8.490 | 0.003 | 11751 | 2.4006 | 1.5988 | 40.1* | Methoxychlor A B | |
| 8.066 | 0.009 | 15235 | 8.786 | 0.006 | 13467 | 0.7502 | 0.5491 | 30.9 | Endrin ketone A B | |
| 7.396 | 0.000 | 13400 | 8.001 | 0.003 | 4754 | 0.8619 | 0.2080 | 122.2* | Endrin aldehyde A B | |
| 6.146 | 0.003 | 11922 | 6.753 | 0.007 | 4719 | 0.4853 | 0.1417 | 109.6* | gamma-Chlordane A B | |
| 6.266 | 0.004 | 4903 | 6.886 | 0.004 | 9529 | 0.1936 | 0.2852 | 38.3 | alpha-Chlordane A B | |
| 1.698 | -0.030 | 10435 | 2.039 | 0.002 | 6677 | 0.2285 | 0.1112 | 69.1* | Hexachlorobutadiene A B | |
| 4.288 | 0.001 | 12529 | 4.794 | 0.003 | 13847 | 0.4775 | 0.3818 | 22.3 | Hexachlorobenzene A B | |
| 5.941 | 0.002 | 4226 | 6.473 | -0.009 | 44539 | 0.2399 | 1.8225 | 153.5* | Oxychlordane A B | |
| 5.986 | -0.041 | 2456 | 6.732 | -0.004 | 6735 | 0.1766 | 0.3207 | 57.9* | 2,4-DDE A B | |
| 6.215 | -0.035 | 59742 | 6.823 | -0.009 | 38762 | 2.9942 | 1.2378 | 83.0* | trans-Nonachlor A B | |
| 6.481 | -0.010 | 5279 | 7.243 | 0.028 | 15347 | 0.5317 | 0.9351 | 55.0* | 2,4-DDD A B | |
| 6.690 | -0.028 | 3664 | 7.529 | 0.026 | 9627 | 0.3670 | 0.6653 | 57.8* | 2,4-DDT A B | |
| 6.843 | -0.001 | 6030 | 7.602 | 0.045 | 4929 | 0.2651 | 0.1452 | 58.4* | cis-Nonachlor A B | |
| 7.696 | -0.013 | 5741 | 8.762 | 0.002 | 6469 | 0.4252 | 0.2956 | 36.0 | Mirex A B | |
| 9.134 | -0.005 | 1748676 | 10.432 | -0.001 | 2129930 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.768 | -0.001 | 7337 | 1.759 | 0.007 | 1867269 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.899 | 0.002 | 16058 | 4.302 | 0.004 | 16543 | 0.7578 | 0.3621 | 70.7* | Tetrachloro-m-xylene A B | |
| 8.985 | 0.005 | 12041 | 9.928 | 0.007 | 13701 | 0.4076 | 0.3827 | 6.3 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01409

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-----------|-----------|------------|--------|
| Tetrachloro-m-xylene | 1.9 | 0.9 | 0.9~ | 29-110 |
| Decachlorobiphenyl | 1.0 | 1.0 | 1.0~ | 18-151 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0~ | 0- 0 |
| Endrin | 1202511.9 | 2625350.6 | 1202511.9~ | 10-200 |
| 4,4'-DDD | 0.0 | 0.0 | 0.0~ | 0- 0 |
| 4,4'-DDT | 4282588.7 | 7903577.2 | 4282588.7~ | 0- 0 |
| Endrin ketone | 0.0 | 0.0 | 0.0~ | 0- 0 |
| Endrin aldehyde | 0.0 | 0.0 | 0.0~ | 0- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1496969 | 79.0 |
| Hexabromobiphenyl | 1091107 | 1748676 | 60.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1900593 | 52.2 |
| Hexabromobiphenyl | 1339634 | 2129930 | 59.0 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|--------|--|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.086 | 0.017 | 10103 | 11.506 | 1 | 7.770 | 0.011 | 5859 | 4.672 |
| Toxaphene | 2 | 7.128 | 0.009 | 8980 | 14.662 | 2 | 8.001 | 0.000 | 4754 | 3.436 |
| Toxaphene | 3 | 7.511 | -0.011 | 29416 | 53.011 | 3 | 8.258 | 0.003 | 14734 | 24.771 |
| Toxaphene | 4 | 7.696 | -0.008 | 5741 | 6.216 | 4 | 8.490 | -0.006 | 11751 | 10.092 |
| Toxaphene | 5 | 7.752 | 0.002 | 1095 | 1.519 | 5 | 9.031 | -0.008 | 8236 | 18.344 |
| Toxaphene | 6 | 8.021 | -0.017 | 1779 | 3.404 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 15.053 | | | | | | Total CLP2Ave (5 peaks): 12.263 RPD = 20 | | | | |
| Corrected Ave (5 peaks): 7.461 | | | | | | Corrected Ave (4 peaks): 9.136 RPD = 20 | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

| | | | |
|--------------|---|-----|-------|
| Aroclor-1248 | 1 | --- | 0.000 |
| Aroclor-1248 | 2 | --- | 0.000 |
| Aroclor-1248 | 3 | --- | 0.000 |
| Aroclor-1248 | 4 | --- | 0.000 |
| Aroclor-1248 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | | |
|--------------|---|-----|-------|
| Aroclor-1254 | 1 | --- | 0.000 |
| Aroclor-1254 | 2 | --- | 0.000 |
| Aroclor-1254 | 3 | --- | 0.000 |
| Aroclor-1254 | 4 | --- | 0.000 |
| Aroclor-1254 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | | |
|--------------|---|-----|-------|
| Aroclor-1260 | 1 | --- | 0.000 |
| Aroclor-1260 | 2 | --- | 0.000 |
| Aroclor-1260 | 3 | --- | 0.000 |
| Aroclor-1260 | 4 | --- | 0.000 |
| Aroclor-1260 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | | |
|--------------|---|-----|-------|
| Aroclor-1262 | 1 | --- | 0.000 |
| Aroclor-1262 | 2 | --- | 0.000 |
| Aroclor-1262 | 3 | --- | 0.000 |
| Aroclor-1262 | 4 | --- | 0.000 |
| Aroclor-1262 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | | |
|--------------|---|-----|-------|
| Aroclor-1268 | 1 | --- | 0.000 |
| Aroclor-1268 | 2 | --- | 0.000 |
| Aroclor-1268 | 3 | --- | 0.000 |
| Aroclor-1268 | 4 | --- | 0.000 |
| Aroclor-1268 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A056.d ARI ID: UU52A
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A056.d Client ID: MS001-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 06:56
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1465559 | 3.297 | 0.001 | 1800758 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.449 | -0.004 | 25123 | 4.930 | 0.001 | 27995 | 0.8927 | 0.7470 | 17.8 | alpha-BHC A B | |
| 4.866 | 0.019 | 244397 | 5.362 | -0.004 | 10517 | 22.5600 | 0.6730 | 188.4* | beta-BHC A B | |
| 5.025 | 0.014 | 21304 | 5.643 | -0.009 | 17725 | 0.9522 | 0.6411 | 39.1 | delta-BHC A B | |
| 4.718 | -0.037 | 27957 | 5.267 | -0.016 | 69309 | 1.2222 | 2.2141 | 57.7* | gamma-BHC (Lindane) A B | |
| 5.206 | 0.005 | 14478 | 5.747 | 0.034 | 3431 | 0.6418 | 0.1204 | 136.8* | Heptachlor A B | |
| 5.516 | 0.039 | 13019 | 6.012 | -0.017 | 44129 | 0.4852 | 1.2546 | 88.4* | Aldrin A B | |
| 6.035 | 0.007 | 15771 | 6.561 | -0.006 | 13204 | 0.6564 | 0.4503 | 37.2 | Heptachlor epoxide b A B | |
| 6.396 | 0.012 | 14302 | 6.956 | 0.014 | 11316 | 0.3779 | 0.3972 | 5.0 | Endosulfan I A B | |
| 6.576 | -0.025 | 14648 | 7.197 | -0.002 | 9581 | 0.5703 | 0.3163 | 57.3* | Dieldrin A B | |
| 6.332 | -0.004 | 12675 | 7.024 | 0.000 | 8944 | 0.6285 | 0.2676 | 80.6* | 4,4'-DDE A B | |
| 6.770 | -0.042 | 11147 | 7.468 | -0.021 | 2335 | 0.6276 | 0.0961 | 146.9* | Endrin A B | |
| 6.971 | -0.044 | 12353 | 7.691 | 0.005 | 23297 | 0.6763 | 0.9000 | 28.4 | Endosulfan II A B | |
| 6.871 | -0.003 | 27713 | 7.564 | -0.001 | 15010 | 1.9166 | 0.6790 | 95.4* | 4,4'-DDD A B | |
| 7.772 | -0.024 | 3623 | 8.250 | -0.009 | 16389 | 0.2372 | 0.7536 | 104.2* | Endosulfan sulfate A B | |
| 7.138 | 0.014 | 10641 | 7.867 | 0.009 | 17850 | 1.0856 | 1.2948 | 17.6 | 4,4'-DDT A B | |
| 7.557 | -0.004 | 13999 | 8.484 | -0.004 | 5346 | 2.5161 | 0.7596 | 107.2* | Methoxychlor A B | |
| 8.066 | 0.009 | 19193 | 8.798 | 0.018 | 10843 | 1.0108 | 0.4616 | 74.6* | Endrin ketone A B | |
| 7.390 | -0.006 | 18934 | 7.969 | -0.030 | 26149 | 1.3026 | 1.1945 | 8.7 | Endrin aldehyde A B | |
| 6.154 | 0.012 | 9800 | 6.767 | 0.021 | 15830 | 0.4075 | 0.5019 | 20.8 | gamma-Chlordane A B | |
| 6.291 | 0.029 | 8194 | 6.919 | 0.038 | 5574 | 0.3305 | 0.1761 | 61.0* | alpha-Chlordane A B | |
| 1.726 | -0.002 | 13085 | 1.995 | -0.042 | 4696 | 0.2927 | 0.0825 | 112.0* | Hexachlorobutadiene A B | |
| 4.272 | -0.015 | 26433 | 4.788 | -0.003 | 15840 | 1.0289 | 0.4610 | 76.2* | Hexachlorobenzene A B | |
| 5.895 | -0.044 | 49303 | 6.469 | -0.013 | 68844 | 2.9938 | 2.9731 | 0.7 | Oxychlordane A B | |
| 5.985 | -0.042 | 4802 | 6.727 | -0.009 | 10255 | 0.3694 | 0.5154 | 33.0 | 2,4-DDE A B | |
| 6.212 | -0.037 | 103927 | 6.820 | -0.012 | 68044 | 5.5711 | 2.2689 | 84.2* | trans-Nonachlor A B | |
| 6.479 | -0.012 | 8318 | 7.239 | 0.024 | 21721 | 0.8961 | 1.3819 | 42.6* | 2,4-DDD A B | |
| 6.687 | -0.031 | 4131 | 7.525 | 0.022 | 21594 | 0.4426 | 1.5583 | 111.5* | 2,4-DDT A B | |
| 6.841 | -0.004 | 7620 | 7.598 | 0.041 | 6075 | 0.3583 | 0.1869 | 62.9* | cis-Nonachlor A B | |
| 7.693 | -0.016 | 19977 | 8.763 | 0.003 | 12438 | 1.5824 | 0.5934 | 90.9* | Mirex A B | |
| 9.132 | -0.006 | 1634931 | 10.431 | -0.002 | 2039779 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.767 | -0.001 | 8073 | 1.760 | 0.008 | 1964937 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.898 | 0.002 | 32485 | 4.301 | 0.002 | 22887 | 1.5659 | 0.5288 | 99.0* | Tetrachloro-m-xylene A B | |
| 8.983 | 0.003 | 21279 | 9.927 | 0.005 | 26886 | 0.7703 | 0.7842 | 1.8 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01414

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------------------|------------------|--------|
| Tetrachloro-m-xylene | 3.9 | 1.3 ³ | 1.3 [~] | 29-110 |
| Decachlorobiphenyl | 1.9 | 2.0 | 1.9 [~] | 18-151 |

~ Indicates recovery outside QC Limits

10

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1465559 | 75.2 |
| Hexabromobiphenyl | 1091107 | 1634931 | 49.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1800758 | 44.2 |
| Hexabromobiphenyl | 1339634 | 2039779 | 52.3 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|--------|---|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.082 | 0.013 | 15238 | 18.561 | 1 | 7.768 | 0.009 | 8017 | 6.676 |
| Toxaphene | 2 | 7.138 | 0.019 | 10641 | 18.583 | 2 | 7.969 | -0.032 | 26149 | 19.736 |
| Toxaphene | 3 | 7.509 | -0.014 | 45526 | 87.751 | 3 | 8.250 | -0.005 | 16389 | 28.772 |
| Toxaphene | 4 | 7.693 | -0.012 | 19977 | 23.133 | 4 | 8.484 | -0.012 | 5346 | 4.794 |
| Toxaphene | 5 | 7.748 | -0.002 | 4602 | 6.828 | 5 | 9.028 | -0.011 | 9722 | 22.611 |
| Toxaphene | 6 | 8.017 | -0.021 | 5731 | 11.730 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 27.764 | | | | | | Total CLP2Ave (5 peaks): 16.518 RPD = 51* | | | | |
| Corrected Ave (5 peaks): 15.767 | | | | | | Corrected Ave (4 peaks): 13.454 RPD = 16 | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------|-------------------------|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------|-------------------------|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------|-------------------------|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A057.d ARI ID: UU52B
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A057.d Client ID: MS101-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 07:15
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.030 | 0.000 | 1509170 | 3.296 | 0.000 | 1864073 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.448 | -0.005 | 22526 | 4.929 | 0.000 | 25225 | 0.7773 | 0.6502 | 17.8 | alpha-BHC A B | |
| 4.864 | 0.018 | 166057 | 5.360 | -0.006 | 7268 | 14.8856 | 0.4493 | 188.3* | beta-BHC A B | |
| 5.023 | 0.013 | 20157 | 5.641 | -0.011 | 13556 | 0.8749 | 0.4736 | 59.5* | delta-BHC A B | |
| 4.740 | -0.016 | 13376 | 5.265 | -0.018 | 55098 | 0.5678 | 1.7003 | 99.9* | gamma-BHC (Lindane) A B | |
| 5.204 | 0.003 | 11064 | 5.745 | 0.032 | 798 | 0.4763 | 0.0271 | 178.5* | Heptachlor A B | |
| 5.479 | 0.001 | 1666 | 6.010 | -0.018 | 31092 | 0.0603 | 0.8539 | 173.6* | Aldrin A B | |
| 6.036 | 0.008 | 15245 | 6.560 | -0.007 | 11854 | 0.6161 | 0.3906 | 44.8* | Heptachlor epoxide b A B | |
| 6.395 | 0.010 | 14378 | 6.957 | 0.015 | 9235 | 0.3689 | 0.3131 | 16.3 | Endosulfan I A B | |
| 6.595 | -0.006 | 5626 | 7.194 | -0.005 | 8028 | 0.2127 | 0.2560 | 18.5 | Dieldrin A B | |
| 6.331 | -0.005 | 12394 | 7.022 | -0.001 | 7562 | 0.5968 | 0.2185 | 92.8* | 4,4'-DDE A B | |
| 6.768 | -0.044 | 10404 | 7.466 | -0.023 | 2231 | 0.5582 | 0.0888 | 145.1* | Endrin A B | |
| 6.970 | -0.046 | 8961 | 7.689 | 0.003 | 20587 | 0.4675 | 0.7688 | 48.7* | Endosulfan II A B | |
| 6.870 | -0.004 | 25992 | 7.562 | -0.003 | 12913 | 1.7130 | 0.5647 | 100.8* | 4,4'-DDD A B | |
| 7.772 | -0.024 | 3901 | 8.248 | -0.011 | 12721 | 0.2434 | 0.5654 | 79.6* | Endosulfan sulfate A B | |
| 7.138 | 0.015 | 10617 | 7.841 | -0.017 | 10155 | 1.0321 | 0.7121 | 36.7 | 4,4'-DDT A B | |
| 7.553 | -0.008 | 14472 | 8.456 | -0.031 | 13484 | 2.4786 | 1.8517 | 29.0 | Methoxychlor A B | |
| 8.064 | 0.007 | 19459 | 8.796 | 0.016 | 8931 | 0.9765 | 0.3676 | 90.6* | Endrin ketone A B | |
| 7.389 | -0.007 | 15520 | 7.968 | -0.030 | 23641 | 1.0174 | 1.0439 | 2.6 | Endrin aldehyde A B | |
| 6.154 | 0.012 | 9393 | 6.767 | 0.021 | 14277 | 0.3793 | 0.4372 | 14.2 | gamma-Chlordane A B | |
| 6.289 | 0.028 | 7949 | 6.919 | 0.038 | 5149 | 0.3113 | 0.1571 | 65.8* | alpha-Chlordane A B | |
| 1.710 | -0.018 | 44239 | 1.991 | -0.047 | 4768 | 0.9609 | 0.0810 | 168.9* | Hexachlorobutadiene A B | |
| 4.270 | -0.018 | 18757 | 4.786 | -0.005 | 14570 | 0.7090 | 0.4096 | 53.5* | Hexachlorobenzene A B | |
| 5.936 | -0.003 | 7457 | 6.467 | -0.014 | 61251 | 0.4315 | 2.5554 | 142.2* | Oxychlordane A B | |
| 5.981 | -0.046 | 4669 | 6.725 | -0.011 | 8858 | 0.3422 | 0.4301 | 22.8 | 2,4-DDE A B | |
| 6.210 | -0.039 | 93923 | 6.818 | -0.013 | 57881 | 4.7977 | 1.8656 | 88.0* | trans-Nonachlor A B | |
| 6.478 | -0.014 | 8958 | 7.238 | 0.023 | 16908 | 0.9196 | 1.0398 | 12.3 | 2,4-DDD A B | |
| 6.685 | -0.033 | 4869 | 7.526 | 0.023 | 15958 | 0.4972 | 1.1132 | 76.5* | 2,4-DDT A B | |
| 6.840 | -0.005 | 7464 | 7.598 | 0.040 | 3923 | 0.3344 | 0.1167 | 96.5* | cis-Nonachlor A B | |
| 7.713 | 0.003 | 6801 | 8.760 | 0.001 | 8863 | 0.5134 | 0.4087 | 22.7 | Mirex A B | |
| 9.130 | -0.008 | 1715727 | 10.429 | -0.005 | 2110184 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.767 | -0.002 | 18474 | 1.760 | 0.008 | 4370158 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.897 | 0.000 | 27348 | 4.300 | 0.001 | 20413 | 1.2802 | 0.4556 | 95.0* | Tetrachloro-m-xylene A B | |
| 8.981 | 0.001 | 14441 | 9.925 | 0.004 | 15905 | 0.4982 | 0.4484 | 10.5 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

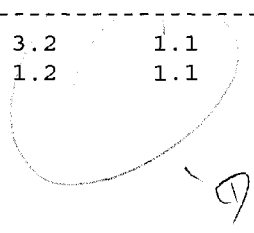
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01419

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 3.2 | 1.1 | 1.1~ | 29-110 |
| Decachlorobiphenyl | 1.2 | 1.1 | 1.1~ | 18-151 |

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1509170 | 80.4 |
| Hexabromobiphenyl | 1091107 | 1715727 | 57.2 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1864073 | 49.3 |
| Hexabromobiphenyl | 1339634 | 2110184 | 57.5 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|--------|--|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.080 | 0.012 | 13257 | 15.388 | 1 | 7.766 | 0.006 | 4908 | 3.950 |
| Toxaphene | 2 | 7.138 | 0.019 | 10617 | 17.668 | 2 | 7.968 | -0.033 | 23641 | 17.248 |
| Toxaphene | 3 | 7.507 | -0.016 | 42749 | 78.519 | 3 | 8.248 | -0.006 | 12721 | 21.587 |
| Toxaphene | 4 | 7.713 | 0.008 | 6801 | 7.505 | 4 | 8.528 | 0.032 | 16065 | 13.925 |
| Toxaphene | 5 | 7.746 | -0.004 | 4772 | 6.747 | 5 | 9.027 | -0.013 | 8418 | 18.926 |
| Toxaphene | 6 | 8.016 | -0.022 | 5117 | 9.981 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 22.635 | | | | | | Total CLP2Ave (5 peaks): 15.127 RPD = 40 | | | | |
| Corrected Ave (5 peaks): 11.458 | | | | | | Corrected Ave (5 peaks): 15.127 RPD = 28 | | | | |

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

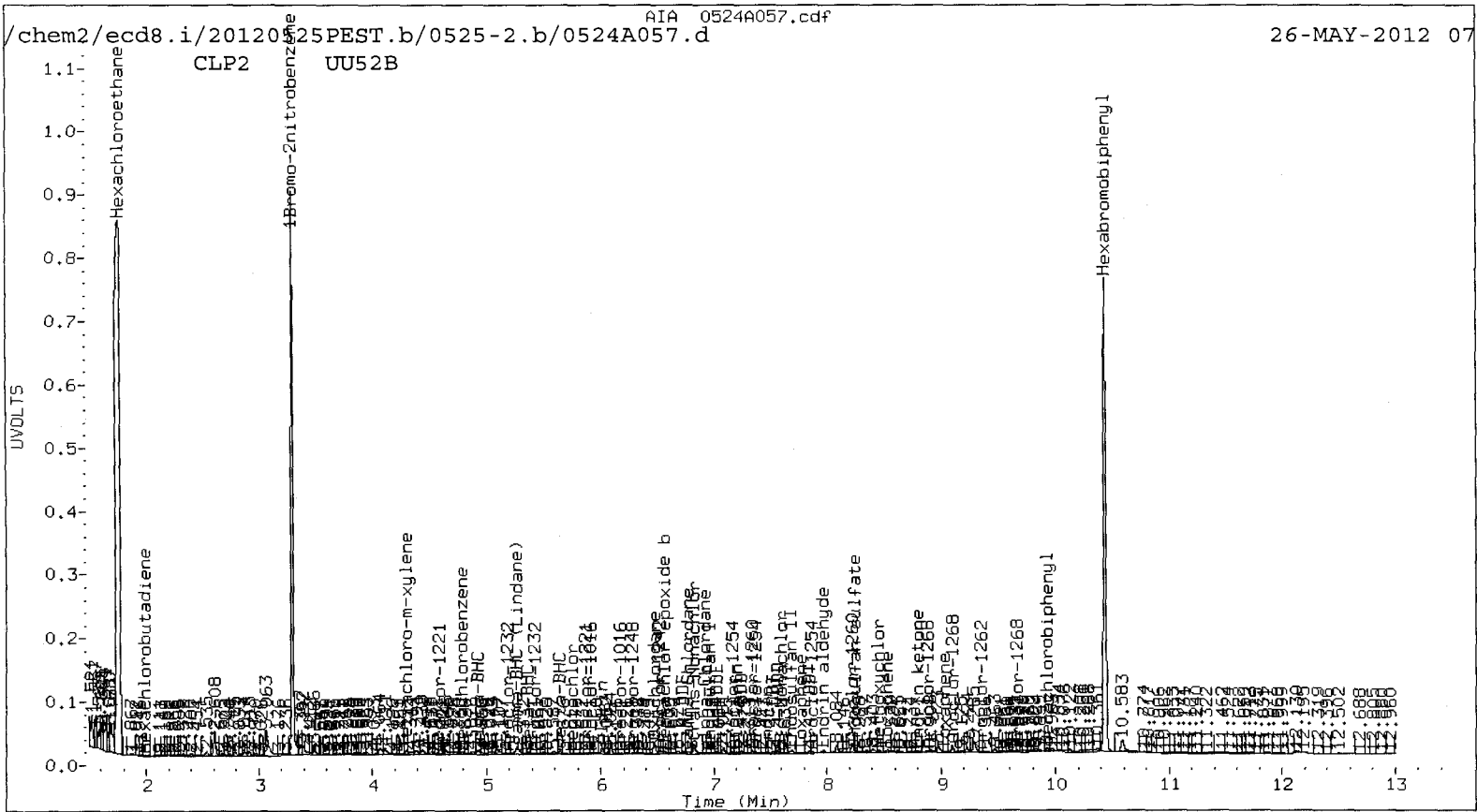
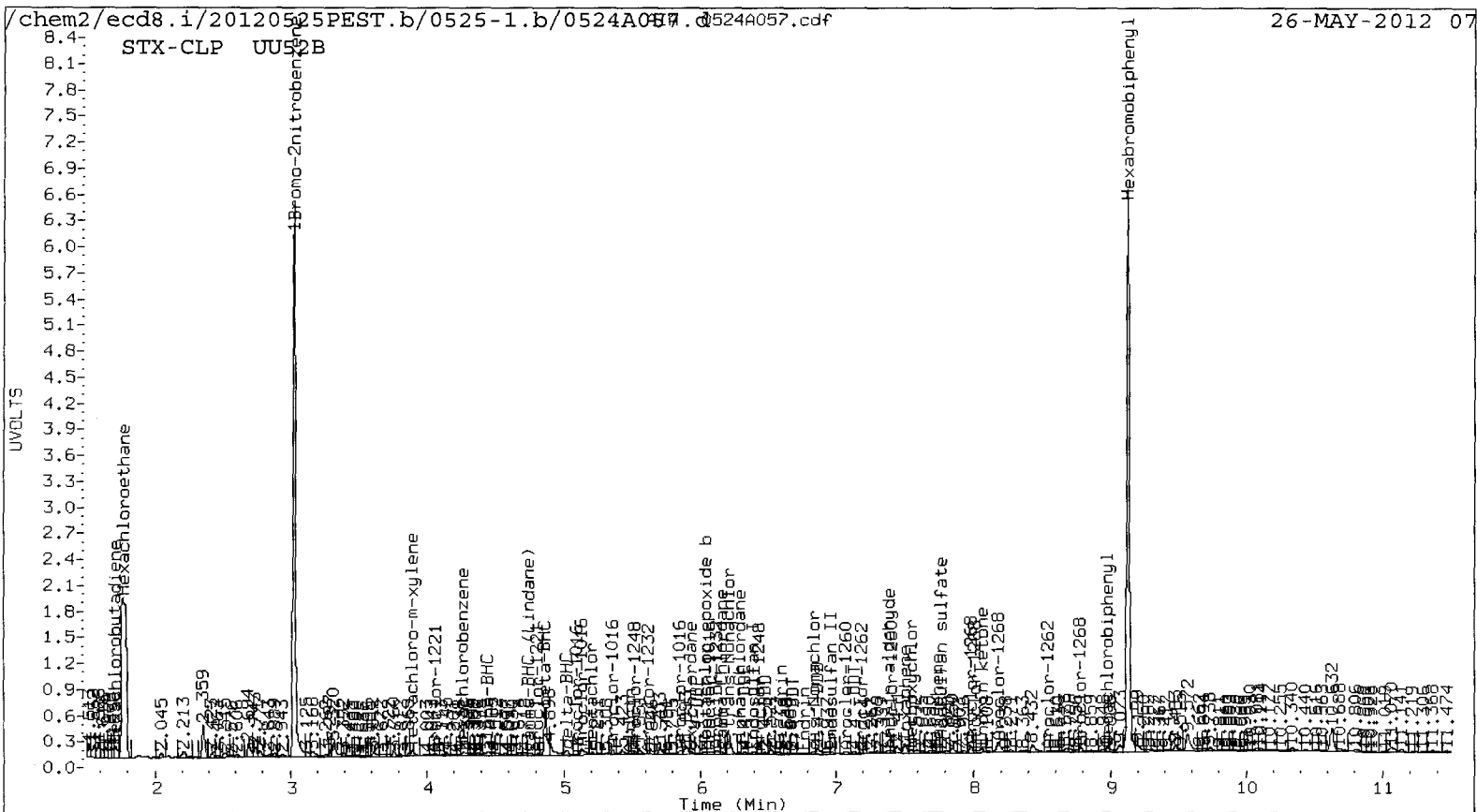
| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A058.d ARI ID: UU52C
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A058.d Client ID: MS002-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 07:34
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.030 | 0.000 | 1537602 | 3.296 | 0.000 | 1918734 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.448 | -0.005 | 15101 | 4.931 | 0.002 | 13696 | 0.5114 | 0.3430 | 39.4 | alpha-BHC A B |
| 4.866 | 0.020 | 113741 | 5.361 | -0.005 | 3470 | 10.0074 | 0.2084 | 191.8* | beta-BHC A B |
| 5.024 | 0.013 | 19706 | 5.643 | -0.010 | 16058 | 0.8395 | 0.5451 | 42.5* | delta-BHC A B |
| 4.744 | -0.011 | 10001 | 5.267 | -0.016 | 39040 | 0.4167 | 1.1705 | 95.0* | gamma-BHC (Lindane) A B |
| 5.206 | 0.005 | 10974 | 5.743 | 0.030 | 1341 | 0.4637 | 0.0442 | 165.2* | Heptachlor A B |
| 5.515 | 0.038 | 8554 | 6.011 | -0.017 | 38805 | 0.3039 | 1.0354 | 109.2* | Aldrin A B |
| 6.036 | 0.008 | 10042 | 6.561 | -0.006 | 8631 | 0.3984 | 0.2763 | 36.2 | Heptachlor epoxide b A B |
| 6.396 | 0.011 | 9462 | 6.953 | 0.011 | 7980 | 0.2383 | 0.2629 | 9.8 | Endosulfan I A B |
| 6.597 | -0.004 | 3834 | 7.196 | -0.003 | 8001 | 0.1423 | 0.2479 | 54.1* | Dieldrin A B |
| 6.332 | -0.004 | 7265 | 7.024 | 0.000 | 6829 | 0.3435 | 0.1917 | 56.7* | 4,4'-DDE A B |
| 6.769 | -0.042 | 8227 | 7.469 | -0.021 | 2923 | 0.4267 | 0.1139 | 115.7* | Endrin A B |
| 6.968 | -0.047 | 10866 | 7.688 | 0.002 | 16616 | 0.5480 | 0.6078 | 10.4 | Endosulfan II A B |
| 6.870 | -0.004 | 19282 | 7.562 | -0.002 | 8912 | 1.2284 | 0.3818 | 105.2* | 4,4'-DDD A B |
| 7.769 | -0.026 | 4086 | 8.285 | 0.026 | 7711 | 0.2465 | 0.3358 | 30.7 | Endosulfan sulfate A B |
| 7.136 | 0.013 | 6502 | 7.842 | -0.016 | 10217 | 0.6110 | 0.7018 | 13.8 | 4,4'-DDT A B |
| 7.557 | -0.003 | 11592 | 8.456 | -0.032 | 11017 | 1.9192 | 1.4822 | 25.7 | Methoxychlor A B |
| 8.035 | -0.021 | 4220 | 8.793 | 0.013 | 4636 | 0.2047 | 0.1869 | 9.1 | Endrin ketone A B |
| 7.389 | -0.007 | 16948 | 7.969 | -0.030 | 22873 | 1.0740 | 0.9894 | 8.2 | Endrin aldehyde A B |
| 6.130 | -0.013 | 16657 | 6.766 | 0.020 | 15904 | 0.6602 | 0.4732 | 33.0 | gamma-Chlordane A B |
| 6.290 | 0.029 | 5559 | 6.877 | -0.005 | 4007 | 0.2137 | 0.1188 | 57.1* | alpha-Chlordane A B |
| 1.698 | -0.030 | 27908 | 1.996 | -0.041 | 3338 | 0.5950 | 0.0551 | 166.1* | Hexachlorobutadiene A B |
| 4.271 | -0.016 | 22076 | 4.782 | -0.009 | 10235 | 0.8190 | 0.2796 | 98.2* | Hexachlorobenzene A B |
| 5.938 | -0.001 | 5093 | 6.469 | -0.013 | 46912 | 0.2849 | 1.9014 | 147.9* | Oxychlordane A B |
| 5.984 | -0.043 | 3340 | 6.728 | -0.008 | 7920 | 0.2367 | 0.3736 | 44.9* | 2,4-DDE A B |
| 6.211 | -0.038 | 65756 | 6.819 | -0.012 | 42748 | 3.2470 | 1.3498 | 82.5* | trans-Nonachlor A B |
| 6.478 | -0.013 | 6313 | 7.239 | 0.024 | 15521 | 0.6265 | 0.9351 | 39.5 | 2,4-DDD A B |
| 6.690 | -0.028 | 4463 | 7.526 | 0.023 | 16221 | 0.4405 | 1.1085 | 86.3* | 2,4-DDT A B |
| 6.841 | -0.004 | 6710 | 7.599 | 0.041 | 4571 | 0.2906 | 0.1332 | 74.3* | cis-Nonachlor A B |
| 7.712 | 0.003 | 6250 | 8.759 | 0.000 | 7165 | 0.4560 | 0.3237 | 33.9 | Mirex A B |
| 9.130 | -0.008 | 1774891 | 10.429 | -0.004 | 2154033 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 1.765 | -0.003 | 3440 | 1.755 | 0.003 | 802440 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.898 | 0.001 | 19207 | 4.300 | 0.002 | 17746 | 0.8825 | 0.3848 | 78.5* | Tetrachloro-m-xylene A B |
| 8.982 | 0.002 | 13943 | 9.926 | 0.005 | 19214 | 0.4650 | 0.5307 | 13.2 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01424

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 2.2 | 1.0 | 1.0~ | 29-110 |
| Decachlorobiphenyl | 1.2 | 1.3 | 1.2~ | 18-151 |

~ Indicates recovery outside QC Limits

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INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1537602 | 83.8 |
| Hexabromobiphenyl | 1091107 | 1774891 | 62.7 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1918734 | 53.7 |
| Hexabromobiphenyl | 1339634 | 2154033 | 60.8 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | | |
|-----------------------------|-------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | | |
| Toxaphene | 1 | 7.080 | 0.011 | 9778 | 10.971 | 1 | 7.751 | -0.008 | 7066 | 5.571 | | |
| Toxaphene | 2 | 7.136 | 0.017 | 6502 | 10.459 | 2 | 7.969 | -0.033 | 22873 | 16.348 | | |
| Toxaphene | 3 | 7.507 | -0.016 | 35009 | 62.158 | 3 | 8.285 | 0.030 | 7711 | 12.819 | | |
| Toxaphene | 4 | 7.712 | 0.007 | 6250 | 6.667 | 4 | 8.529 | 0.033 | 13353 | 11.339 | | |
| Toxaphene | 5 | 7.750 | -0.001 | 3550 | 4.851 | 5 | 9.029 | -0.010 | 7570 | 16.672 | | |
| Toxaphene | 6 | 8.035 | -0.003 | 4220 | 7.957 | NS | --- | --- | --- | --- | | |
| Total STX-CLPAve (6 peaks): | | | | | 17.177 | Total CLP2Ave (5 peaks): | | | | | 12.550 | RPD = 31 |
| Corrected Ave (5 peaks): | | | | | 8.181 | Corrected Ave (5 peaks): | | | | | 12.550 | RPD = 42* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A061.d ARI ID: UU52D
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A061.d Client ID: MS003-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 08:31
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1588078 | 3.297 | 0.001 | 2015578 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.429 | -0.024 | 26079 | 4.932 | 0.003 | 7284 | 0.8552 | 0.1737 | 132.5* | alpha-BHC A B | |
| 4.867 | 0.021 | 96671 | 5.361 | -0.005 | 3024 | 8.2351 | 0.1729 | 191.8* | beta-BHC A B | |
| 5.024 | 0.013 | 31807 | 5.644 | -0.009 | 18616 | 1.3120 | 0.6015 | 74.3* | delta-BHC A B | |
| 4.751 | -0.004 | 10632 | 5.278 | -0.005 | 40912 | 0.4290 | 1.1677 | 92.5* | gamma-BHC (Lindane) A B | |
| 5.205 | 0.004 | 20006 | 5.745 | 0.032 | 2497 | 0.8184 | 0.0783 | 165.1* | Heptachlor A B | |
| 5.454 | -0.023 | 11211 | 6.012 | -0.017 | 35902 | 0.3856 | 0.9119 | 81.1* | Aldrin A B | |
| 6.039 | 0.011 | 20794 | 6.560 | -0.007 | 3233 | 0.7986 | 0.0985 | 156.1* | Heptachlor epoxide b A B | |
| 6.396 | 0.011 | 9084 | 6.956 | 0.014 | 2869 | 0.2215 | 0.0900 | 84.4* | Endosulfan I A B | |
| 6.575 | -0.026 | 11468 | 7.199 | 0.000 | 3081 | 0.4121 | 0.0909 | 127.7* | Dieldrin A B | |
| 6.333 | -0.003 | 4516 | 7.026 | 0.003 | 2654 | 0.2068 | 0.0709 | 97.8* | 4,4'-DDE A B | |
| 6.772 | -0.040 | 11068 | 7.494 | 0.005 | 7370 | 0.5620 | 0.2780 | 67.6* | Endrin A B | |
| 7.018 | 0.003 | 4499 | 7.688 | 0.002 | 13724 | 0.2221 | 0.4859 | 74.5* | Endosulfan II A B | |
| 6.870 | -0.004 | 32060 | 7.564 | -0.001 | 7261 | 1.9995 | 0.3010 | 147.7* | 4,4'-DDD A B | |
| 7.771 | -0.024 | 4914 | 8.286 | 0.028 | 4428 | 0.2902 | 0.1866 | 43.5* | Endosulfan sulfate A B | |
| 7.131 | 0.008 | 8694 | 7.840 | -0.018 | 16051 | 0.7999 | 1.0670 | 28.6 | 4,4'-DDT A B | |
| 7.560 | -0.001 | 5582 | 8.456 | -0.031 | 13076 | 0.9048 | 1.7023 | 61.2* | Methoxychlor A B | |
| 8.068 | 0.011 | 9538 | 8.737 | -0.044 | 10236 | 0.4530 | 0.3994 | 12.6 | Endrin ketone A B | |
| 7.409 | 0.013 | 9766 | 7.971 | -0.028 | 21730 | 0.6059 | 0.9096 | 40.1* | Endrin aldehyde A B | |
| 6.123 | -0.020 | 12131 | 6.765 | 0.019 | 8193 | 0.4655 | 0.2321 | 66.9* | gamma-Chlordane A B | |
| 6.292 | 0.030 | 6435 | 6.879 | -0.002 | 840 | 0.2395 | 0.0237 | 164.0* | alpha-Chlordane A B | |
| 1.730 | 0.002 | 11736 | ---- | ---- | ---- | 0.2423 | 0.0000 | --- | Hexachlorobutadiene | |
| 4.268 | -0.019 | 44234 | 4.781 | -0.010 | 13720 | 1.5890 | 0.3567 | 126.7* | Hexachlorobenzene A B | |
| 5.940 | 0.001 | 4706 | 6.469 | -0.013 | 36766 | 0.2577 | 1.4186 | 138.5* | Oxychlorane A B | |
| 5.985 | -0.042 | 5576 | 6.729 | -0.007 | 5305 | 0.3868 | 0.2382 | 47.5* | 2,4-DDE A B | |
| 6.213 | -0.037 | 40958 | 6.820 | -0.011 | 19342 | 1.9800 | 0.5910 | 108.0* | trans-Nonachlor A B | |
| 6.479 | -0.012 | 8417 | 7.240 | 0.025 | 12642 | 0.8178 | 0.7370 | 10.4 | 2,4-DDD A B | |
| 6.693 | -0.025 | 5446 | 7.525 | 0.023 | 8741 | 0.5262 | 0.5780 | 9.4 | 2,4-DDT A B | |
| ---- | ---- | ---- | 7.600 | 0.042 | 1912 | 0.0000 | 0.0539 | --- | cis-Nonachlor | |
| 7.690 | -0.020 | 2812 | 8.764 | 0.004 | 15022 | 0.2009 | 0.6567 | 106.3* | Mirex A B | |
| 9.131 | -0.007 | 1812949 | 10.431 | -0.002 | 2225921 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.766 | -0.002 | 13461 | 1.756 | 0.004 | 3264188 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.898 | 0.001 | 31190 | 4.301 | 0.002 | 20926 | 1.3875 | 0.4320 | 105.0* | Tetrachloro-m-xylene A B | |
| 8.985 | 0.005 | 26847 | 9.927 | 0.006 | 19249 | 0.8765 | 0.5145 | 52.0* | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01429

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 3.5 | 1.1 | 1.1~ | 29-110 |
| Decachlorobiphenyl | 2.2 | 1.3 | 1.3~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1588078 | 89.9 |
| Hexabromobiphenyl | 1091107 | 1812949 | 66.2 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 2015578 | 61.4 |
| Hexabromobiphenyl | 1339634 | 2225921 | 66.2 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|---------------------------------|----------|-------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.079 | 0.011 | 16527 | 18.154 | 1 | 7.752 | -0.007 | 5985 | 4.567 |
| Toxaphene | 2 | 7.131 | 0.012 | 8694 | 13.693 | 2 | 7.971 | -0.031 | 21730 | 15.030 |
| Toxaphene | 3 | 7.508 | -0.015 | 25349 | 44.062 | 3 | 8.223 | -0.032 | 33516 | 53.918 |
| Toxaphene | 4 | 7.718 | 0.013 | 6876 | 7.181 | 4 | 8.531 | 0.035 | 9234 | 7.588 |
| Toxaphene | 5 | 7.771 | 0.021 | 4914 | 6.575 | 5 | 9.029 | -0.011 | 8764 | 18.679 |
| Toxaphene | 6 | 8.019 | -0.018 | 6629 | 12.235 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 16.983 | | | | | Total CLP2Ave (5 peaks): 19.956 | | | | | RPD = 16 |
| Corrected Ave (5 peaks): 11.568 | | | | | Corrected Ave (4 peaks): 11.466 | | | | | RPD = 1 |

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A062.d ARI ID: UU52E
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A062.d Client ID: MS004-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 08:50
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.032 | 0.002 | 1590197 | 3.298 | 0.001 | 1990201 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.432 | -0.021 | 18754 | 4.931 | 0.002 | 9072 | 0.6142 | 0.2190 | 94.8* | alpha-BHC A B | |
| 4.866 | 0.020 | 216093 | 5.363 | -0.003 | 4806 | 18.3838 | 0.2783 | 194.0* | beta-BHC A B | |
| 5.025 | 0.014 | 23953 | 5.645 | -0.008 | 16054 | 0.9867 | 0.5254 | 61.0* | delta-BHC A B | |
| 4.767 | 0.012 | 4649 | 5.268 | -0.015 | 51053 | 0.1873 | 1.4757 | 154.9* | gamma-BHC (Lindane) A B | |
| 5.207 | 0.006 | 17691 | 5.748 | 0.035 | 2574 | 0.7228 | 0.0818 | 159.3* | Heptachlor A B | |
| 5.454 | -0.023 | 10765 | 6.012 | -0.016 | 35559 | 0.3698 | 0.9147 | 84.8* | Aldrin A B | |
| 6.042 | 0.014 | 12765 | 6.562 | -0.005 | 5314 | 0.4896 | 0.1640 | 99.6* | Heptachlor epoxide b A B | |
| 6.397 | 0.012 | 12387 | 6.951 | 0.009 | 4874 | 0.3016 | 0.1548 | 64.3* | Endosulfan I A B | |
| 6.576 | -0.025 | 11005 | 7.196 | -0.003 | 6384 | 0.3949 | 0.1907 | 69.8* | Dieldrin A B | |
| 6.334 | -0.002 | 7921 | 7.028 | 0.005 | 2786 | 0.3621 | 0.0754 | 131.1* | 4,4'-DDE A B | |
| 6.772 | -0.040 | 12065 | 7.449 | -0.041 | 2971 | 0.6204 | 0.1124 | 138.7* | Endrin A B | |
| 7.017 | 0.002 | 5885 | 7.689 | 0.003 | 18432 | 0.2943 | 0.6543 | 75.9* | Endosulfan II A B | |
| 6.872 | -0.002 | 19474 | 7.563 | -0.001 | 3982 | 1.2302 | 0.1655 | 152.6* | 4,4'-DDD A B | |
| 7.772 | -0.023 | 6604 | 8.287 | 0.029 | 7516 | 0.3950 | 0.3176 | 21.7 | Endosulfan sulfate A B | |
| 7.140 | 0.016 | 18065 | 7.843 | -0.016 | 12924 | 1.6833 | 0.8615 | 64.6* | 4,4'-DDT A B | |
| 7.560 | -0.001 | 10398 | 8.457 | -0.030 | 12732 | 1.7071 | 1.6621 | 2.7 | Methoxychlor A B | |
| 8.036 | -0.021 | 5767 | 8.802 | 0.021 | 4020 | 0.2774 | 0.1573 | 55.3* | Endrin ketone A B | |
| 7.391 | -0.005 | 23949 | 7.972 | -0.026 | 24092 | 1.5049 | 1.0113 | 39.2 | Endrin aldehyde A B | |
| 6.129 | -0.013 | 11969 | 6.769 | 0.023 | 8345 | 0.4587 | 0.2394 | 62.8* | gamma-Chlordane A B | |
| 6.294 | 0.032 | 8266 | 6.927 | 0.045 | 3320 | 0.3072 | 0.0949 | 105.6* | alpha-Chlordane A B | |
| 1.700 | -0.028 | 37165 | 1.992 | -0.045 | 4918 | 0.7661 | 0.0782 | 163.0* | Hexachlorobutadiene A B | |
| 4.270 | -0.017 | 28314 | 4.783 | -0.008 | 13855 | 1.0157 | 0.3648 | 94.3* | Hexachlorobenzene A B | |
| 5.938 | -0.001 | 5754 | 6.470 | -0.012 | 60464 | 0.3192 | 2.3627 | 152.4* | Oxychlordane A B | |
| 5.985 | -0.042 | 5877 | 6.730 | -0.006 | 4915 | 0.4129 | 0.2235 | 59.5* | 2,4-DDE A B | |
| 6.214 | -0.036 | 102518 | 6.821 | -0.010 | 52345 | 5.0196 | 1.6039 | 103.1* | trans-Nonachlor A B | |
| 6.480 | -0.011 | 6508 | 7.242 | 0.027 | 14264 | 0.6404 | 0.8339 | 26.2 | 2,4-DDD A B | |
| 6.693 | -0.025 | 2802 | 7.526 | 0.024 | 12612 | 0.2742 | 0.8363 | 101.2* | 2,4-DDT A B | |
| 6.839 | -0.006 | 10548 | 7.599 | 0.042 | 2004 | 0.4530 | 0.0567 | 155.5* | cis-Nonachlor A B | |
| 7.691 | -0.018 | 18452 | 8.765 | 0.005 | 32083 | 1.3351 | 1.4065 | 5.2 | Mirex A B | |
| 9.133 | -0.006 | 1789929 | 10.432 | -0.001 | 2219745 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.766 | -0.003 | 5190 | 1.756 | 0.004 | 1201374 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.898 | 0.002 | 27052 | 4.301 | 0.003 | 15107 | 1.2018 | 0.3158 | 116.8* | Tetrachloro-m-xylene A B | |
| 8.986 | 0.005 | 26606 | 9.928 | 0.007 | 22749 | 0.8797 | 0.6097 | 36.3 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

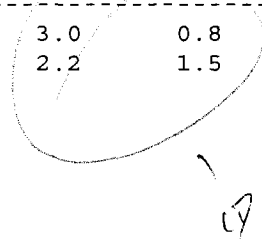
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01434

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 3.0 | 0.8 | 0.8~ | 29-110 |
| Decachlorobiphenyl | 2.2 | 1.5 | 1.5~ | 18-151 |

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1590197 | 90.1 |
| Hexabromobiphenyl | 1091107 | 1789929 | 64.0 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1990201 | 59.4 |
| Hexabromobiphenyl | 1339634 | 2219745 | 65.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | | |
|-----------------------------|-------|-------|--------|--------|---------|--------------------------|-------|--------|--------|---------|--------|----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | | |
| Toxaphene | 1 | 7.081 | 0.013 | 17321 | 19.271 | 1 | 7.755 | -0.005 | 6011 | 4.599 | | |
| Toxaphene | 2 | 7.140 | 0.021 | 18065 | 28.816 | 2 | 7.972 | -0.029 | 24092 | 16.710 | | |
| Toxaphene | 3 | 7.508 | -0.015 | 58503 | 102.999 | 3 | 8.223 | -0.032 | 66520 | 107.310 | | |
| Toxaphene | 4 | 7.718 | 0.013 | 9010 | 9.531 | 4 | 8.531 | 0.035 | 18490 | 15.236 | | |
| Toxaphene | 5 | 7.751 | 0.000 | 5871 | 7.956 | 5 | 9.030 | -0.009 | 13242 | 28.302 | | |
| Toxaphene | 6 | 8.036 | -0.002 | 5767 | 10.781 | NS | --- | --- | --- | --- | | |
| Total STX-CLPAve (6 peaks): | | | | | 29.892 | Total CLP2Ave (5 peaks): | | | | | 34.431 | RPD = 14 |
| Corrected Ave (5 peaks): | | | | | 15.271 | Corrected Ave (4 peaks): | | | | | 16.212 | RPD = 6 |

| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|----------------------------|---|-----|-----|-------------------------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | CLP2Ave: <3 Quant Peaks | | | | |

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

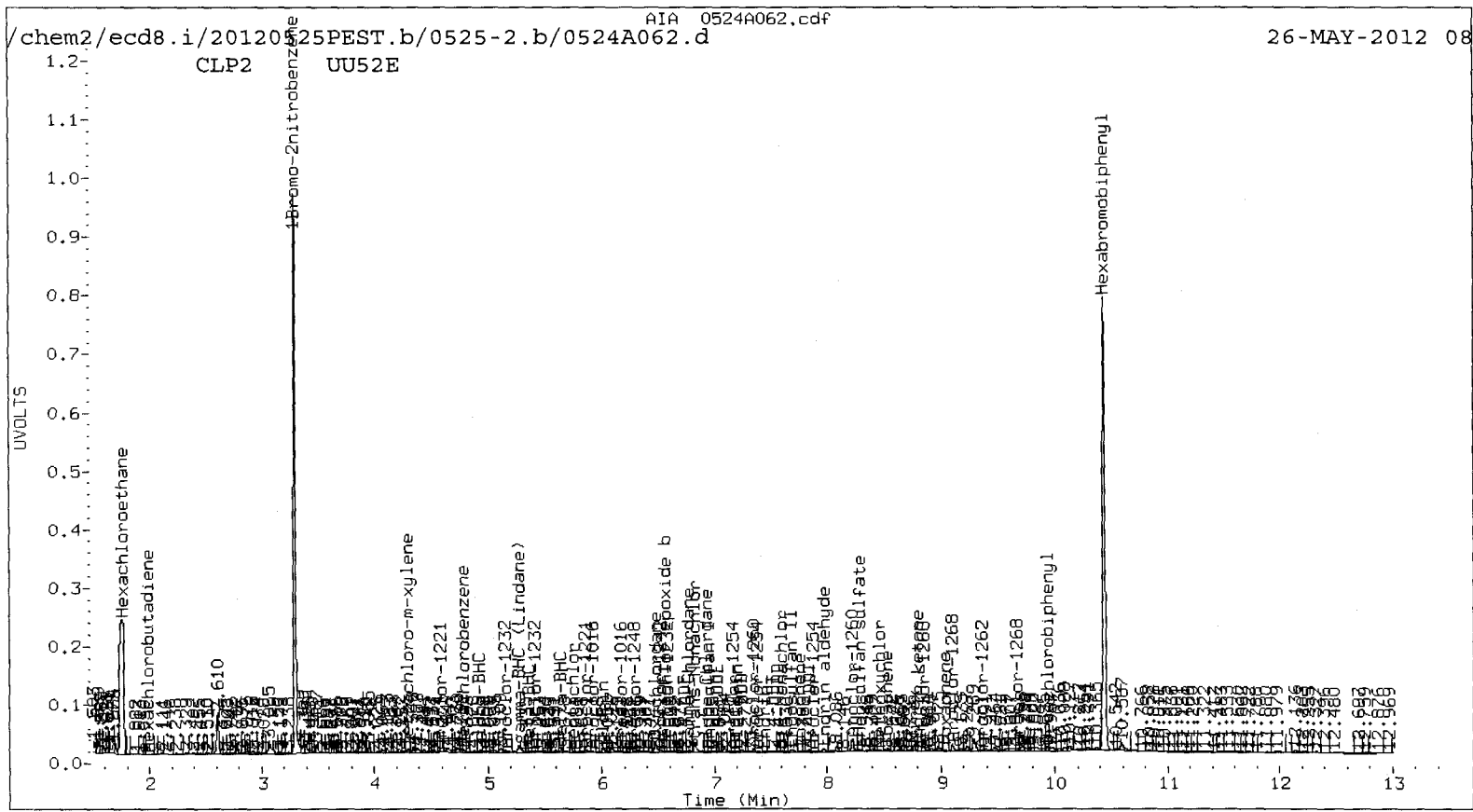
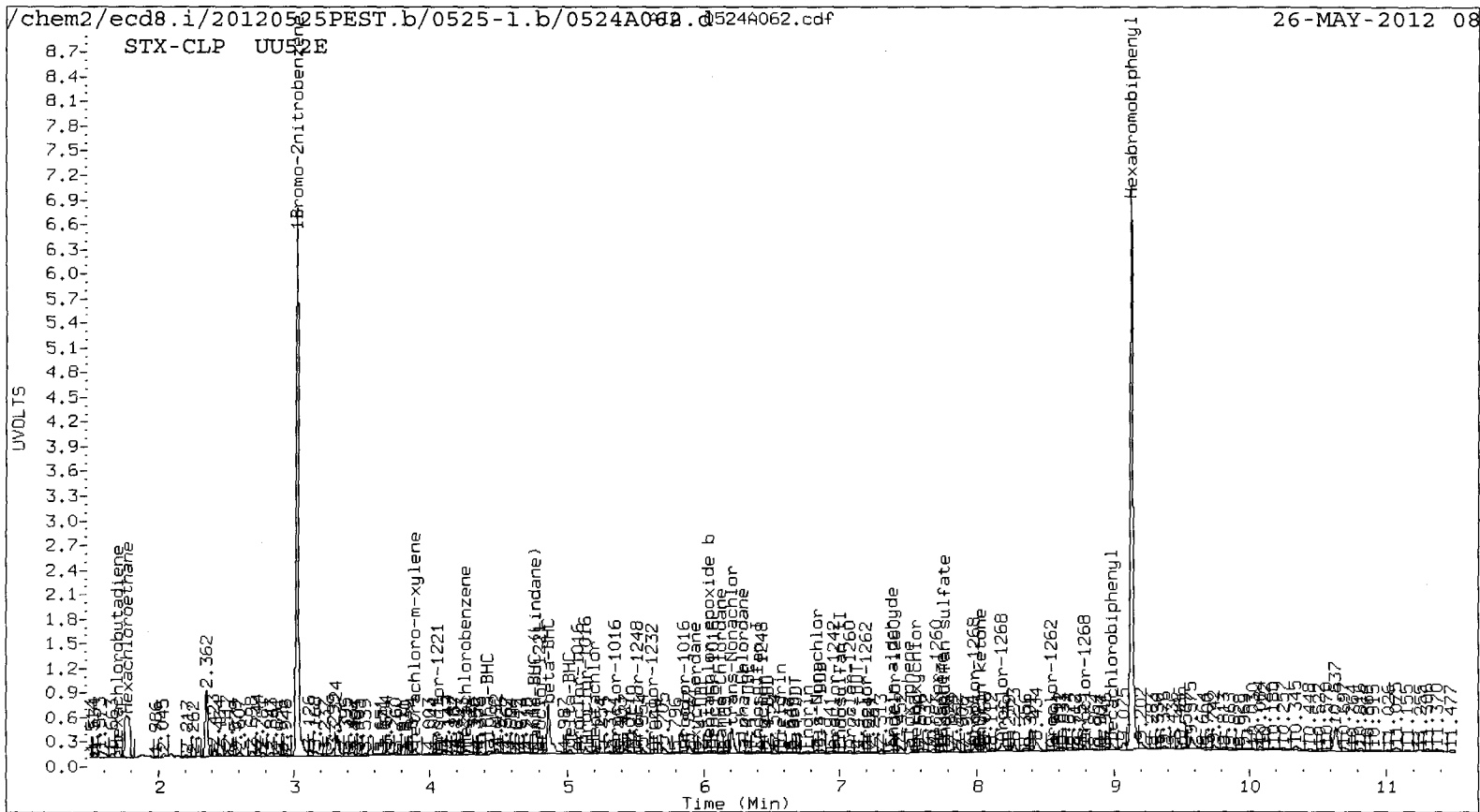
CLP2Ave: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A063.d ARI ID: UU52F
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A063.d Client ID: MS005-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 09:09
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.002 | 1570030 | 3.297 | 0.001 | 1986131 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.441 | -0.012 | 15111 | 4.930 | 0.001 | 12700 | 0.5012 | 0.3073 | 48.0* | alpha-BHC A B | |
| 4.866 | 0.020 | 181262 | 5.361 | -0.006 | 6702 | 15.6187 | 0.3888 | 190.3* | beta-BHC A B | |
| 5.023 | 0.013 | 28391 | 5.644 | -0.009 | 10841 | 1.1845 | 0.3555 | 107.7* | delta-BHC A B | |
| 4.737 | -0.019 | 6584 | 5.267 | -0.016 | 43991 | 0.2687 | 1.2742 | 130.3* | gamma-BHC (Lindane) A B | |
| 5.205 | 0.004 | 8392 | 5.750 | 0.037 | 412 | 0.3473 | 0.0131 | 185.4* | Heptachlor A B | |
| 5.515 | 0.038 | 5482 | 6.012 | -0.016 | 21440 | 0.1907 | 0.5526 | 97.4* | Aldrin A B | |
| 6.040 | 0.012 | 15676 | 6.565 | -0.002 | 3756 | 0.6090 | 0.1161 | 135.9* | Heptachlor epoxide b A B | |
| 6.397 | 0.012 | 10575 | 6.929 | -0.013 | 2743 | 0.2608 | 0.0873 | 99.7* | Endosulfan I A B | |
| 6.579 | -0.022 | 10480 | 7.198 | -0.001 | 8575 | 0.3809 | 0.2566 | 39.0 | Dieldrin A B | |
| 6.333 | -0.003 | 7600 | 7.027 | 0.004 | 2972 | 0.3519 | 0.0806 | 125.4* | 4,4'-DDE A B | |
| 6.772 | -0.040 | 10334 | 7.449 | -0.040 | 6243 | 0.5060 | 0.2386 | 71.8* | Endrin A B | |
| 7.005 | -0.010 | 4531 | 7.692 | 0.006 | 21116 | 0.2157 | 0.7576 | 111.3* | Endosulfan II A B | |
| 6.871 | -0.003 | 23991 | 7.564 | -0.001 | 6875 | 1.4429 | 0.2888 | 133.3* | 4,4'-DDD A B | |
| 7.778 | -0.018 | 2353 | 8.287 | 0.028 | 9669 | 0.1340 | 0.4129 | 102.0* | Endosulfan sulfate A B | |
| 7.141 | 0.017 | 12639 | 7.869 | 0.011 | 11456 | 1.1213 | 0.7718 | 36.9 | 4,4'-DDT A B | |
| 7.561 | 0.000 | 20036 | 8.482 | -0.006 | 4698 | 3.1317 | 0.6199 | 133.9* | Methoxychlor A B | |
| 8.066 | 0.010 | 21302 | 8.803 | 0.023 | 2769 | 0.9756 | 0.1095 | 159.6* | Endrin ketone A B | |
| 7.411 | 0.015 | 16115 | 7.966 | -0.033 | 16313 | 0.9641 | 0.6921 | 32.9 | Endrin aldehyde A B | |
| 6.128 | -0.014 | 14775 | 6.769 | 0.023 | 8569 | 0.5735 | 0.2463 | 79.8* | gamma-Chlordane A B | |
| 6.289 | 0.028 | 7488 | ---- | ---- | ---- | 0.2819 | 0.0000 | --- | alpha-Chlordane | |
| 1.724 | -0.004 | 12302 | 2.070 | 0.033 | 1219 | 0.2569 | 0.0194 | 171.9* | Hexachlorobutadiene A B | |
| 4.270 | -0.018 | 25414 | 4.791 | 0.000 | 8167 | 0.9234 | 0.2155 | 124.3* | Hexachlorobenzene A B | |
| 5.896 | -0.043 | 38529 | 6.470 | -0.012 | 55726 | 2.0345 | 2.1820 | 7.0 | Oxychlorane A B | |
| 5.984 | -0.043 | 3498 | 6.729 | -0.007 | 3769 | 0.2340 | 0.1717 | 30.7 | 2,4-DDE A B | |
| 6.213 | -0.037 | 101049 | 6.821 | -0.011 | 53299 | 4.7106 | 1.6505 | 96.2* | trans-Nonachlor A B | |
| 6.480 | -0.011 | 5629 | 7.242 | 0.027 | 11368 | 0.5274 | 0.6717 | 24.1 | 2,4-DDD A B | |
| 6.694 | -0.024 | 3011 | 7.525 | 0.023 | 15809 | 0.2805 | 1.0595 | 116.3* | 2,4-DDT A B | |
| 6.841 | -0.003 | 9812 | 7.598 | 0.041 | 9909 | 0.4012 | 0.2832 | 34.5 | cis-Nonachlor A B | |
| 7.692 | -0.017 | 13897 | 8.765 | 0.005 | 23749 | 0.9573 | 1.0523 | 9.4 | Mirex A B | |
| 9.133 | -0.006 | 1880039 | 10.434 | 0.000 | 2196333 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.767 | -0.001 | 16320 | 1.758 | 0.006 | 3974373 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.897 | 0.001 | 40520 | 4.302 | 0.003 | 13649 | 1.8232 | 0.2859 | 145.8* | Tetrachloro-m-xylene A B | |
| 8.984 | 0.004 | 13972 | 9.929 | 0.008 | 19846 | 0.4399 | 0.5376 | 20.0 | Decachlorobiphenyl A B | |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01439

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 4.6 | 0.7 | 0.7~ | 29-110 |
| Decachlorobiphenyl | 1.1 | 1.3 | 1.1~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1570030 | 87.7 |
| Hexabromobiphenyl | 1091107 | 1880039 | 72.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1986131 | 59.1 |
| Hexabromobiphenyl | 1339634 | 2196333 | 64.0 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-------------|-------|-------|--------|--------|--------|----------|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.082 | 0.014 | 10966 | 11.616 | 1 | 7.769 | 0.010 | 8296 | 6.415 |
| Toxaphene | 2 | 7.141 | 0.022 | 12639 | 19.195 | 2 | 7.966 | -0.035 | 16313 | 11.435 |
| Toxaphene | 3 | 7.510 | -0.013 | 44670 | 74.877 | 3 | 8.224 | -0.031 | 57711 | 94.091 |
| Toxaphene | 4 | 7.692 | -0.013 | 13897 | 13.995 | 4 | 8.482 | -0.014 | 4698 | 3.913 |
| Toxaphene | 5 | 7.752 | 0.001 | 3934 | 5.076 | 5 | 9.030 | -0.010 | 9127 | 19.714 |
| Toxaphene | 6 | 8.066 | 0.028 | 21302 | 37.915 | NS | --- | --- | --- | --- |

Total STX-CLPAve (6 peaks): 27.112 Total CLP2Ave (5 peaks): 27.114 RPD = 0
 Corrected Ave (5 peaks): 17.559 Corrected Ave (4 peaks): 10.369 RPD = 51*

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1016 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1016 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1016 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1016 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1016 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1221 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1221 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1221 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1221 | 4 | --- | 0.000 | 4 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1232 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1232 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1232 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1232 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1232 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|----|-----|-------|
| Aroclor-1242 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1242 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1242 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1242 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1242 | 5 | --- | 0.000 | 5 | --- | 0.000 |
| Aroclor-1242 | 6 | --- | 0.000 | NS | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

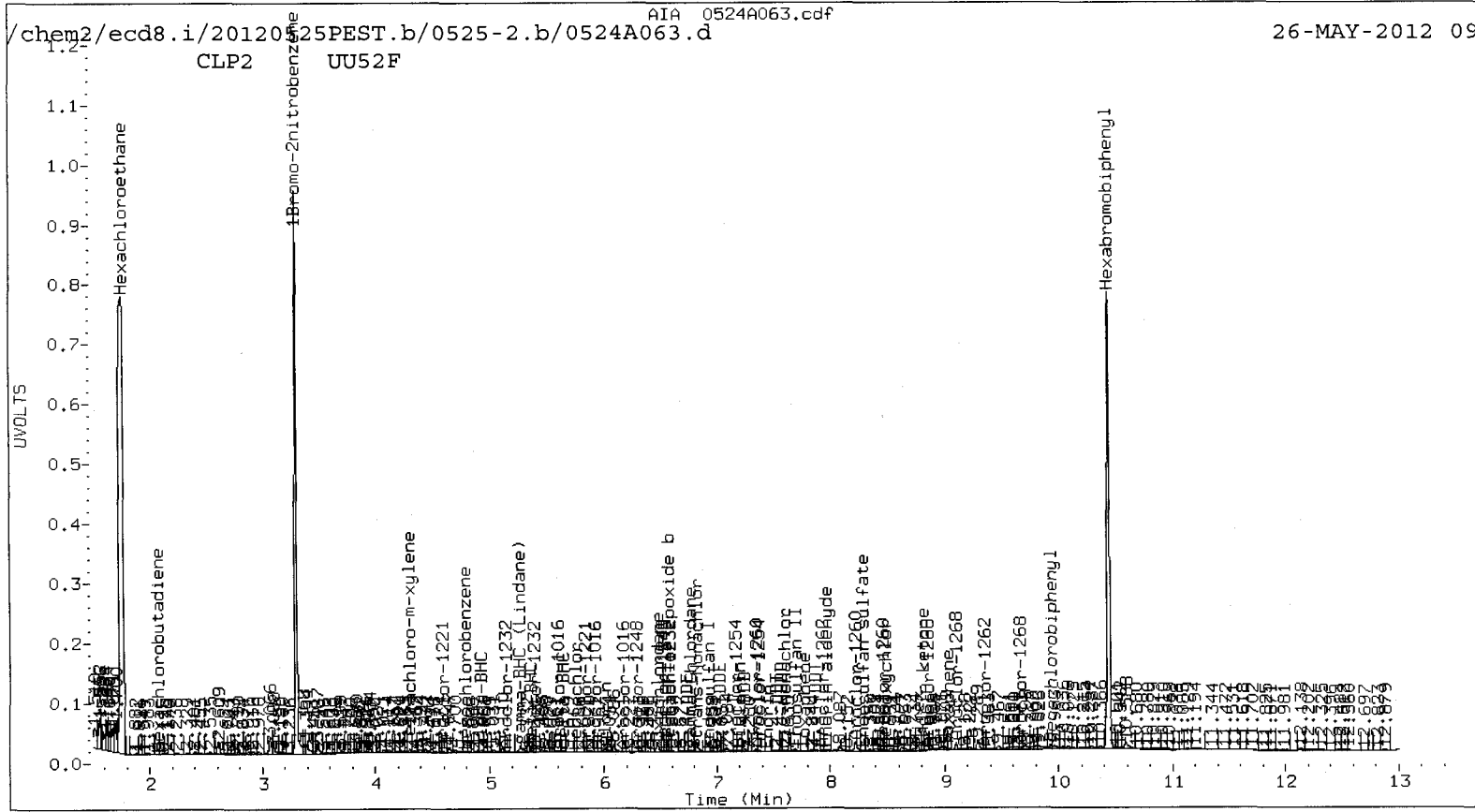
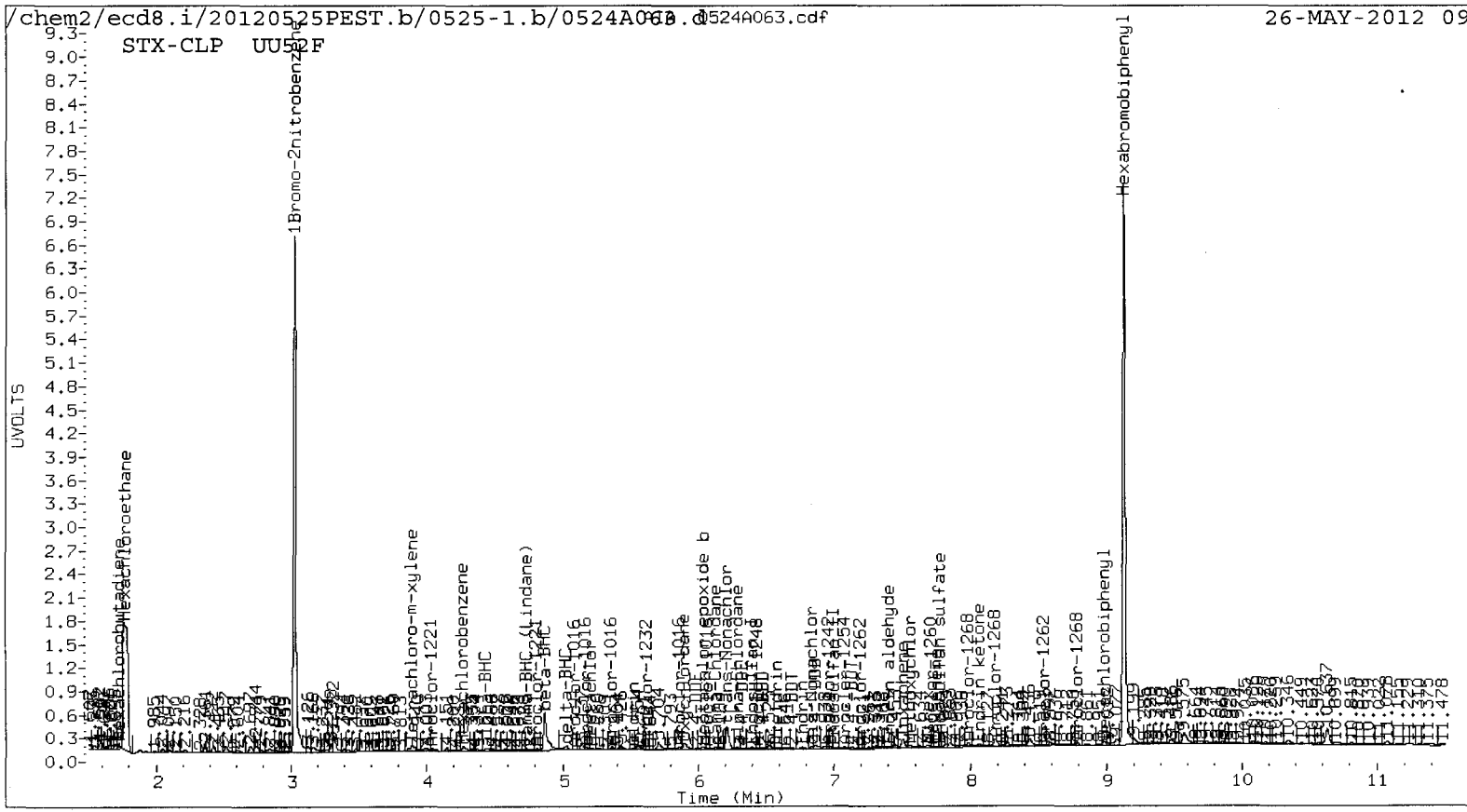
CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks



UUS2: 01443

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A068.d ARI ID: INDAE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A068.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 10:43
 Compound Sublist: INDA Report Date: 05/29/2012 12:07
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|----------|----------|------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.030 | 0.001 | 1381366 | 3.297 | 0.000 | 1734872 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.454 | 0.001 | 500892 | 4.931 | 0.001 | 710473 | 18.8832 | 19.6785 | 4.1 | alpha-BHC A B |
| 4.848 | 0.002 | 165047 | 5.369 | 0.003 | 278013 | 16.1639 | 18.4663 | 13.3 | beta-BHC A B |
| 5.013 | 0.002 | 369249 | 5.656 | 0.003 | 524252 | 17.5102 | 19.6808 | 11.7 | delta-BHC A B |
| 4.757 | 0.002 | 417302 | 5.284 | 0.002 | 586593 | 19.3547 | 19.4507 | 0.5 | gamma-BHC (Lindane) A B |
| 5.203 | 0.002 | 418050 | 5.715 | 0.002 | 494921 | 19.6613 | 18.0308 | 8.7 | Heptachlor A B |
| 5.479 | 0.002 | 468698 | 6.031 | 0.002 | 639279 | 18.5331 | 18.8644 | 1.8 | Aldrin A B |
| 6.030 | 0.002 | 412288 | 6.569 | 0.002 | 538560 | 18.2042 | 19.0660 | 4.6 | Heptachlor epoxide b A B |
| 6.387 | 0.003 | 572317 | 6.944 | 0.002 | 516626 | 16.0419 | 18.8221 | 15.9 | Endosulfan I A B |
| 6.604 | 0.003 | 937305 | 7.201 | 0.002 | 1136629 | 38.7188 | 38.9444 | 0.6 | Dieldrin A B |
| 6.341 | 0.005 | 579092 | 7.027 | 0.004 | 1218087 | 29.3774 | 37.8248 | 25.1 | 4,4'-DDE A B |
| 6.815 | 0.003 | 792865 | 7.492 | 0.002 | 870671 | 42.4960 | 39.2882 | 7.8 | Endrin A B |
| 7.019 | 0.003 | 802799 | 7.688 | 0.002 | 985128 | 41.8430 | 41.7293 | 0.3 | Endosulfan II A B |
| 6.880 | 0.006 | 672586 | 7.568 | 0.004 | 911306 | 44.2836 | 45.2043 | 2.1 | 4,4'-DDD A B |
| 7.798 | 0.003 | 667664 | 8.261 | 0.002 | 779581 | 41.6214 | 39.3064 | 5.7 | Endosulfan sulfate A B |
| 7.129 | 0.005 | 334052 | 7.861 | 0.003 | 303855 | 32.4433 | 24.1683 | 29.2 | 4,4'-DDT A B |
| 7.564 | 0.004 | 1088953 | 8.490 | 0.002 | 973177 | 186.3273 | 151.5980 | 20.6 | Methoxychlor A B |
| 8.059 | 0.003 | 796840 | 8.782 | 0.002 | 763479 | 39.9499 | 35.6421 | 11.4 | Endrin ketone A B |
| 7.399 | 0.003 | 591093 | 8.000 | 0.002 | 749313 | 38.7123 | 37.5329 | 3.1 | Endrin aldehyde A B |
| 6.145 | 0.003 | 425226 | 6.748 | 0.002 | 568424 | 18.7585 | 18.7047 | 0.3 | gamma-Chlordane A B |
| 6.264 | 0.003 | 413015 | 6.884 | 0.002 | 559449 | 17.6722 | 18.3432 | 3.7 | alpha-Chlordane A B |
| 1.728 | 0.000 | 622266 | 2.037 | 0.000 | 891406 | 14.7660 | 16.2591 | 9.6 | Hexachlorobutadiene A B |
| 4.289 | 0.002 | 329666 | 4.793 | 0.002 | 527060 | 13.6142 | 15.9214 | 15.6 | Hexachlorobenzene A B |
| 9.140 | 0.002 | 1717350 | 10.435 | 0.002 | 1860256 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.898 | 0.001 | 525242 | 4.300 | 0.001 | 1362995 | 26.8615 | 32.6879 | 19.6 | Tetrachloro-m-xylene A B |
| 8.982 | 0.002 | 855414 | 9.925 | 0.004 | 1071644 | 29.4800 | 34.2716 | 15.0 | Decachlorobiphenyl A B |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 67.2 | 81.7 | 67.2~ | 85-115 |
| Decachlorobiphenyl | 73.7 | 85.7 | 73.7~ | 85-115 |

~ Indicates recovery outside QC Limits

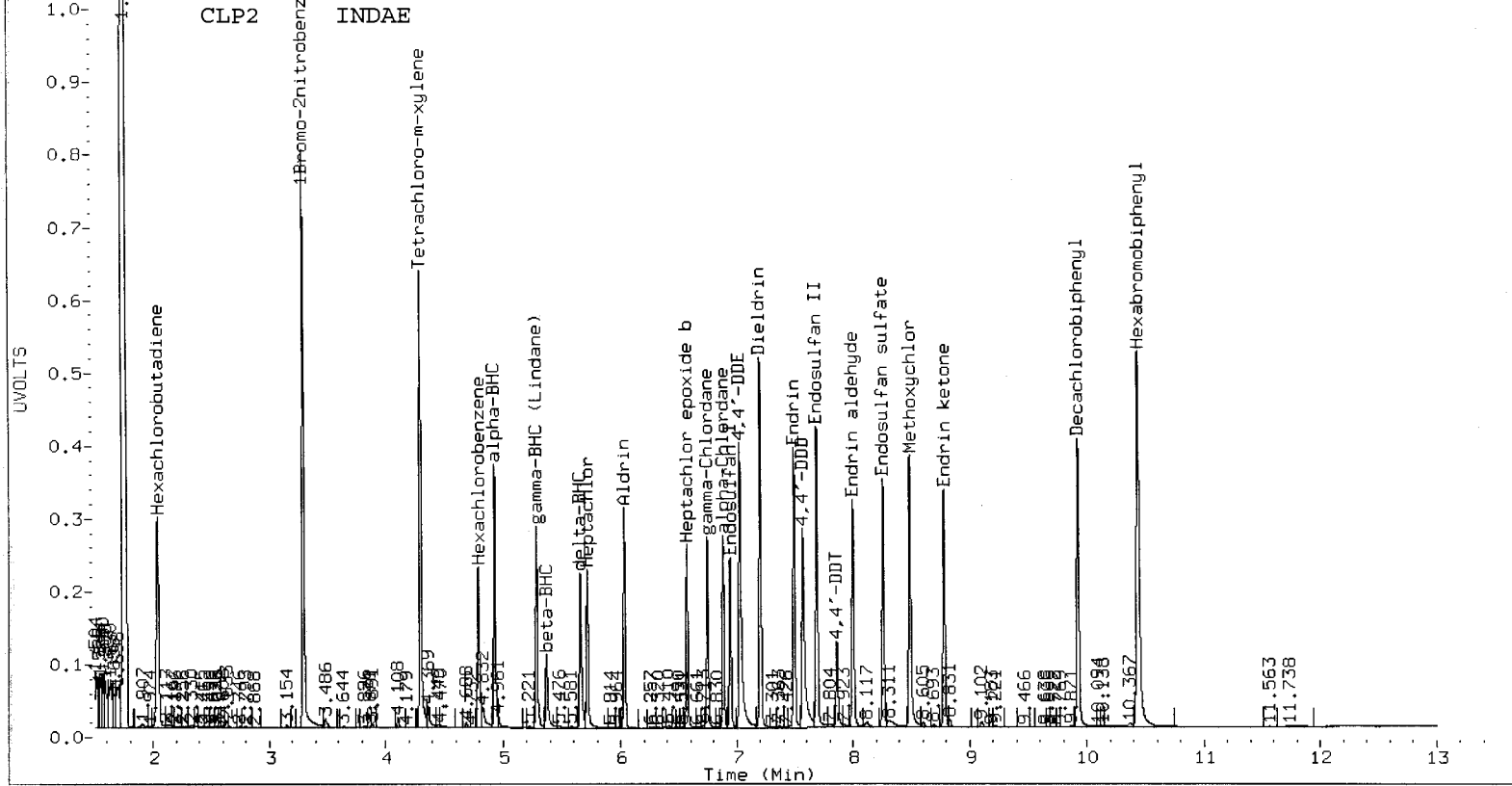
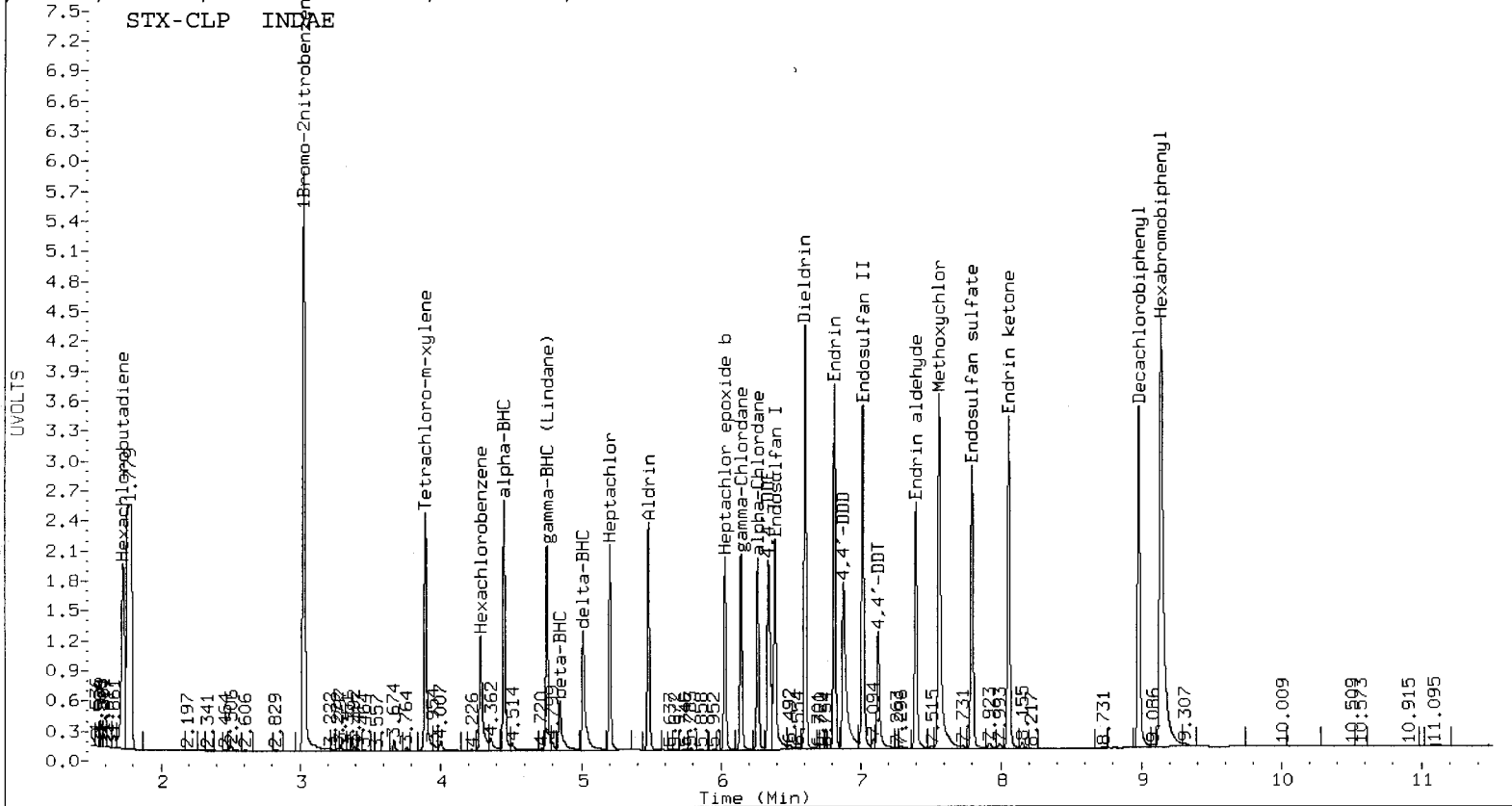
INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1381366 | 65.2 |
| Hexabromobiphenyl | 1091107 | 1717350 | 57.4 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1734872 | 38.9 |
| Hexabromobiphenyl | 1339634 | 1860256 | 38.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

NR 5/29/2012

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A069.d ARI ID: UU52G
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A069.d Client ID: MS006-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 11:02
 Compound Sublist: wpest Report Date: 05/29/2012 13:13
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 10.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|----------|---------|--------|---|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1403389 | 3.297 | 0.001 | 1921460 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.455 | 0.002 | 198268 | 4.931 | 0.002 | 222578 | 7.3572 | 5.5663 | 27.7 | alpha-BHC A B | |
| 4.862 | 0.016 | 6946849 | 5.361 | -0.005 | 102524 | 669.6621 | 16.1486 | 196.4* | beta-BHC A BM opp shifts & interference | |
| 5.017 | 0.006 | 112568 | 5.641 | -0.012 | 42848 | 5.2544 | 1.4524 | 113.4* | delta-BHC A B | |
| 4.780 | 0.024 | 49599 | 5.291 | 0.008 | 168082 | 2.2643 | 5.0322 | 75.9* | gamma-BHC (Lindane) A B | |
| 5.193 | -0.008 | 61351 | 5.746 | 0.033 | 19722 | 2.8401 | 0.6487 | 125.6* | Heptachlor A B | |
| 5.510 | 0.033 | 212781 | 6.041 | 0.012 | 86225 | 8.2817 | 2.2973 | 113.1* | Aldrin A B | |
| 6.031 | 0.002 | 33005 | 6.541 | -0.026 | 121536 | 1.4344 | 3.8848 | 92.1* | Heptachlor epoxide b A B | |
| 6.398 | 0.013 | 107315 | 6.947 | 0.005 | 64162 | 2.9608 | 2.1106 | 33.5 | Endosulfan I A B | |
| 6.596 | -0.005 | 30486 | 7.183 | -0.016 | 458199 | 1.2396 | 14.1748 | 167.8* | Dieldrin A BMN | |
| 6.333 | -0.003 | 194958 | 7.047 | 0.024 | 114641 | 9.9813 | 3.2142 | 102.6* | 4,4'-DDE A B | |
| 6.763 | -0.049 | 89078 | 7.466 | -0.024 | 14573 | 5.1278 | 0.5984 | 158.2* | Endrin A B | |
| 7.017 | 0.002 | 19323 | 7.686 | 0.000 | 150726 | 1.0817 | 5.8098 | 137.2* | Endosulfan II A B | |
| 6.870 | -0.004 | 311860 | 7.565 | 0.000 | 241075 | 22.0528 | 10.8815 | 67.8* | 4,4'-DDD A B | |
| 7.769 | -0.027 | 128769 | 8.250 | -0.009 | 348011 | 8.6214 | 15.9667 | 59.7* | Endosulfan sulfate A B | |
| 7.128 | 0.005 | 90329 | 7.853 | -0.005 | 101424 | 9.4221 | 7.3408 | 24.8 | 4,4'-DDT A BN | |
| 7.556 | -0.004 | 123184 | 8.479 | -0.008 | 31504 | 22.6377 | 4.4657 | 134.1* | Methoxychlor A B | |
| 8.039 | 0.018 | 258512 | 8.800 | 0.019 | 126128 | 13.9199 | 5.3580 | 88.8* | Endrin ketone A B opp shifts | |
| 7.382 | -0.014 | 370460 | 8.020 | 0.022 | 43106 | 26.0582 | 1.9648 | 172.0* | Endrin aldehyde A B | |
| 6.154 | 0.011 | 101681 | 6.760 | 0.014 | 69096 | 4.4152 | 2.0529 | 73.0* | gamma-Chlordane A B | |
| 6.286 | 0.024 | 49331 | 6.897 | 0.015 | 48673 | 2.0777 | 1.4409 | 36.2 | alpha-Chlordane A B | |
| 1.734 | 0.006 | 31659 | 2.046 | 0.009 | 6262 | 0.7395 | 0.1031 | 151.0* | Hexachlorobutadiene A B | |
| 4.307 | 0.019 | 25082 | 4.794 | 0.004 | 38350 | 1.0196 | 1.0460 | 2.6 | Hexachlorobenzene A B | |
| 5.926 | -0.013 | 80433 | 6.466 | -0.016 | 977110 | 4.9938 | 39.5469 | 155.2* | Oxychlordane A B | |
| 6.008 | -0.019 | 92796 | 6.726 | -0.010 | 28058 | 7.2982 | 1.3216 | 138.7* | 2,4-DDE A B | |
| 6.209 | -0.041 | 2475014 | 6.819 | -0.013 | 1264046 | 135.6556 | 42.0547 | 105.3* | trans-Nonachlor A B | |
| 6.486 | -0.006 | 39936 | 7.237 | 0.022 | 86263 | 4.3991 | 5.4757 | 21.8 | 2,4-DDD A B | |
| 6.729 | 0.011 | 22148 | 7.507 | 0.005 | 146140 | 2.4263 | 10.5225 | 125.1* | 2,4-DDT A B | |
| 6.850 | 0.006 | 454986 | 7.528 | -0.029 | 92357 | 21.8727 | 2.8356 | 154.1* | cis-Nonachlor A B | |
| 7.689 | -0.021 | 167592 | 8.755 | -0.005 | 62508 | 13.5738 | 2.9755 | 128.1* | Mirex A B | |
| 9.134 | -0.004 | 1599002 | 10.433 | 0.000 | 2044331 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.767 | -0.001 | 63556 | 1.761 | 0.010 | 14183640 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.895 | -0.002 | 325721 | 4.300 | 0.001 | 99573 | 16.3963 | 2.1561 | 153.5* | Tetrachloro-m-xylene A B | |
| 8.986 | 0.006 | 41351 | 9.928 | 0.007 | 88376 | 1.5305 | 2.5718 | 50.8* | Decachlorobiphenyl A BM | |

* Indicates RPD > 40%

- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01447

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 41.0 | 5.4 | 5.4~ | 29-110 |
| Decachlorobiphenyl | 3.8 | 6.4 | 3.8~ | 18-151 |

Cost
out low

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1403389 | 67.8 |
| Hexabromobiphenyl | 1091107 | 1599002 | 46.5 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1921460 | 53.9 |
| Hexabromobiphenyl | 1339634 | 2044331 | 52.6 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-------------------------------------|-------|-------|--------|--------|----------|----------------------------------|-------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.075 | 0.007 | 122107 | 152.078 | 1 | 7.741 | -0.019 | 10927 | 9.078 |
| Toxaphene | 2 | 7.128 | 0.009 | 90329 | 161.293 | 2 | 8.020 | 0.019 | 43106 | 32.463 |
| Toxaphene | 3 | 7.500 | -0.022 | 821472 | 1618.959 | 3 | 8.250 | -0.005 | 348011 | 609.580 |
| Toxaphene | 4 | 7.689 | -0.016 | 167592 | 198.432 | 4 | 8.479 | -0.017 | 31504 | 28.188 |
| Toxaphene | 5 | 7.769 | 0.018 | 128769 | 195.336 | 5 | 9.030 | -0.010 | 60371 | 140.097 |
| Toxaphene | 6 | 8.039 | 0.001 | 258512 | 540.991 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 477.848 | | | | | | Total CLP2Ave (5 peaks): 163.881 | | | | |
| Corrected Ave (5 peaks): 249.626 | | | | | | Corrected Ave (4 peaks): 52.456 | | | | |
| | | | | | | RPD = 98* | | | | |
| | | | | | | RPD = 131* | | | | |

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

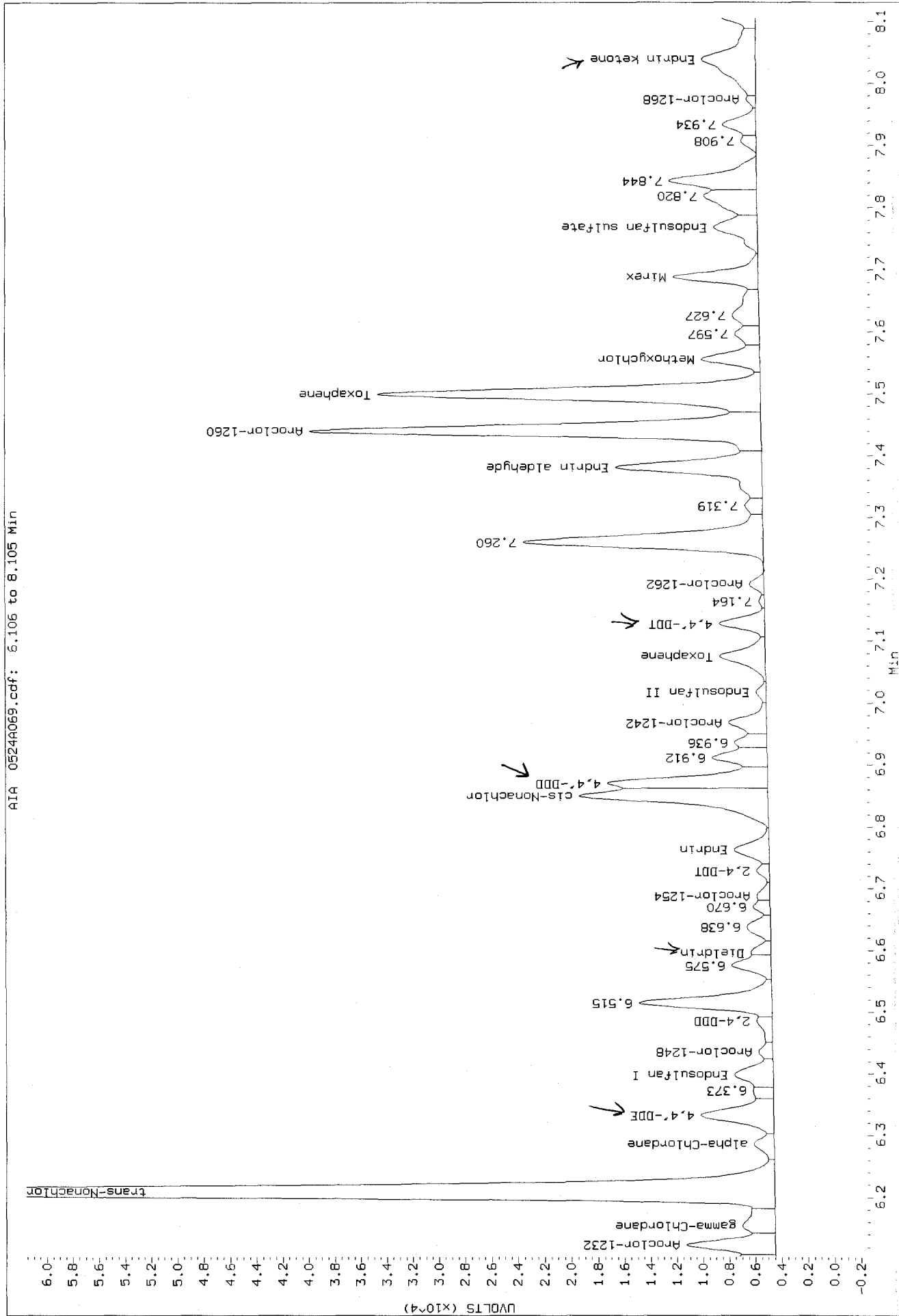
| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

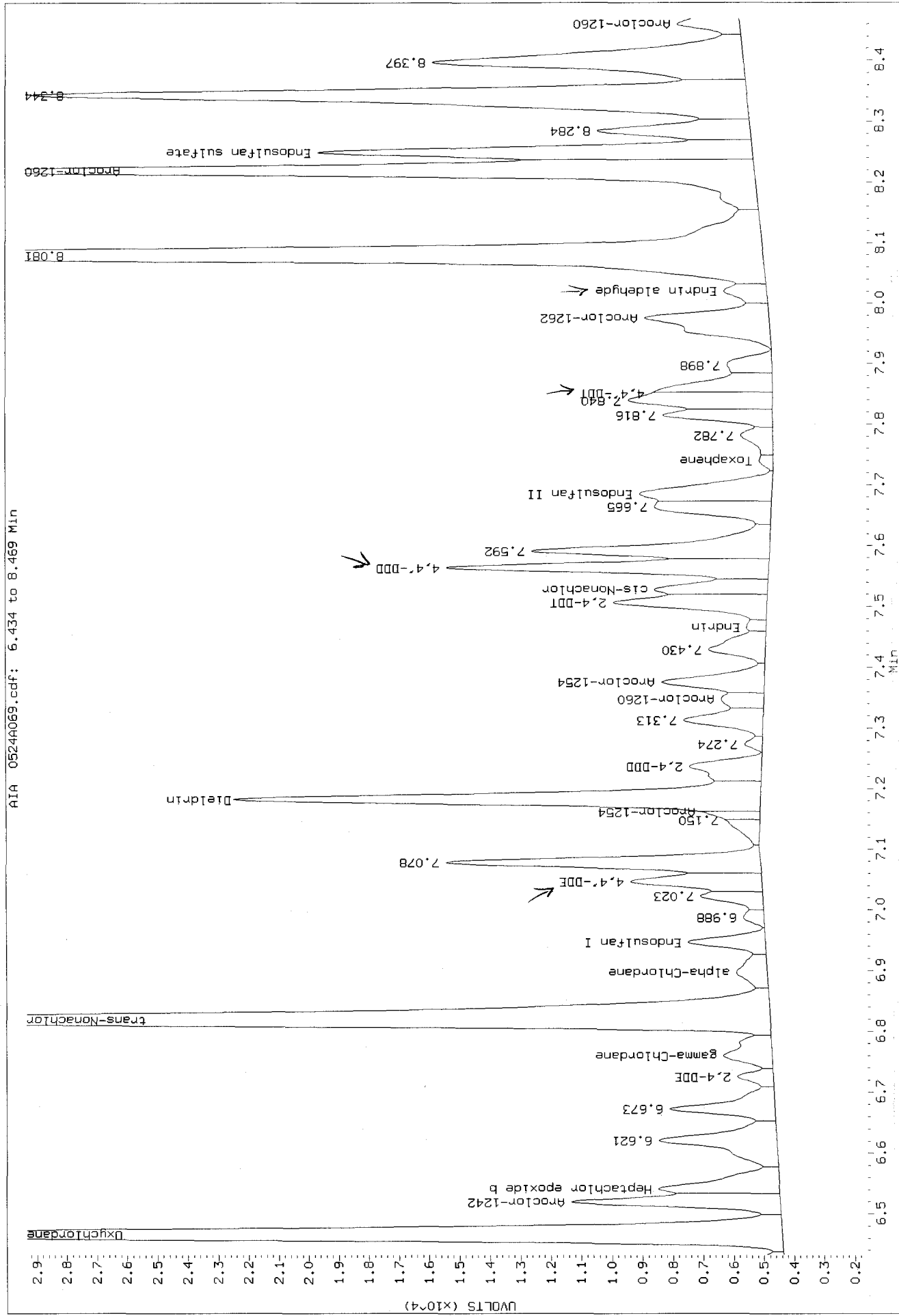
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Data File: /chem2/ecc8.i/20120525PEST.b/0525-1.b/05244069.d/05244069.cdf
 Injection Date: 26-MAY-2012 11:02
 Instrument: ecc8.i
 Client Sample ID: M5006-SS-120515



25410: 01452

Data File: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524069.d/0524069.cdf
 Injection Date: 26-MAY-2012 11:02
 Instrument: ecd8.i
 Client Sample ID: MS006-SS-120515



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A070.d ARI ID: UU52H
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A070.d Client ID: MS007-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 11:21
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|--------|--------------------------|
| 3.032 | 0.002 1485976 | 3.298 0.001 1948265 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.451 | -0.002 15634 | 4.931 0.002 8490 | 0.5479 | 0.2094 | 89.4* | alpha-BHC A B |
| 4.867 | 0.021 119563 | 5.363 -0.004 2927 | 10.8851 | 0.1732 | 193.7* | beta-BHC A B |
| 5.025 | 0.014 8327 | 5.644 -0.009 8335 | 0.3671 | 0.2786 | 27.4 | delta-BHC A B |
| 4.742 | -0.014 7265 | 5.268 -0.015 30693 | 0.3133 | 0.9063 | 97.3* | gamma-BHC (Lindane) A B |
| 5.204 | 0.003 5671 | 5.719 0.006 1315 | 0.2480 | 0.0427 | 141.3* | Heptachlor A B |
| 5.518 | 0.041 8135 | 6.012 -0.016 12606 | 0.2990 | 0.3312 | 10.2 | Aldrin A B |
| 6.036 | 0.008 9203 | 6.564 -0.003 4469 | 0.3778 | 0.1409 | 91.3* | Heptachlor epoxide b A B |
| 6.398 | 0.013 7145 | 6.936 -0.006 13153 | 0.1862 | 0.4267 | 78.5* | Endosulfan I A B |
| 6.601 | 0.000 13139 | 7.199 0.000 7411 | 0.5046 | 0.2261 | 76.2* | Dieldrin A B |
| 6.335 | -0.001 11936 | 7.024 0.001 10700 | 0.5838 | 0.2959 | 65.5* | 4,4'-DDE A B |
| 6.769 | -0.043 8052 | 7.468 -0.021 3431 | 0.4472 | 0.1423 | 103.4* | Endrin A B |
| 7.016 | 0.001 4566 | 7.692 0.006 18303 | 0.2466 | 0.7127 | 97.2* | Endosulfan II A B |
| 6.874 | 0.000 24004 | 7.565 0.000 19844 | 1.6377 | 0.9048 | 57.7* | 4,4'-DDD A B |
| 7.774 | -0.022 1585 | 8.224 -0.035 35473 | 0.1024 | 1.6440 | 176.5* | Endosulfan sulfate A B |
| 7.140 | 0.017 6781 | 7.849 -0.009 3804 | 0.6825 | 0.2781 | 84.2* | 4,4'-DDT A B |
| ---- | | 8.483 -0.004 2664 | 0.0000 | 0.3815 | --- | Methoxychlor |
| 8.065 | 0.008 68078 | 8.793 0.013 4912 | 3.5368 | 0.2108 | 177.5* | Endrin ketone A B |
| 7.401 | 0.005 150710 | 7.972 -0.026 6737 | 10.2279 | 0.3102 | 188.2* | Endrin aldehyde A B |
| 6.146 | 0.003 11723 | 6.771 0.026 20090 | 0.4808 | 0.5887 | 20.2 | gamma-Chlordane A B |
| 6.296 | 0.034 5563 | 6.884 0.003 6207 | 0.2213 | 0.1812 | 19.9 | alpha-Chlordane A B |
| 1.727 | -0.001 251 | 2.067 0.030 1235 | 0.0055 | 0.0201 | 113.5* | Hexachlorobutadiene A B |
| 4.277 | -0.011 24608 | 4.801 0.011 9584 | 0.9447 | 0.2578 | 114.2* | Hexachlorobenzene A B |
| ---- | | 6.471 -0.011 30319 | 0.0000 | 1.2102 | --- | Oxychlordane |
| 5.994 | -0.033 16134 | 6.729 -0.007 2016 | 1.2243 | 0.0937 | 171.6* | 2,4-DDE A B |
| 6.214 | -0.036 63883 | 6.822 -0.009 33243 | 3.3782 | 1.1172 | 100.6* | trans-Nonachlor A B |
| 6.461 | -0.030 17790 | 7.239 0.024 4231 | 1.8908 | 0.2713 | 149.8* | 2,4-DDD A B |
| ---- | | 7.526 0.024 11738 | 0.0000 | 0.8538 | --- | 2,4-DDT |
| 6.845 | 0.000 6512 | 7.601 0.044 3588 | 0.3021 | 0.1113 | 92.3* | cis-Nonachlor A B |
| 7.688 | -0.021 9202 | 8.763 0.003 10326 | 0.7191 | 0.4965 | 36.6 | Mirex A B |
| 9.132 | -0.006 1657319 | 10.432 -0.001 2023771 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 1.768 | -0.001 6488 | 1.759 0.007 1645941 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.898 | 0.001 13845 | 4.301 0.002 17401 | 0.6582 | 0.3716 | 55.7* | Tetrachloro-m-xylene A B |
| 8.983 | 0.003 14864 | 9.928 0.007 15660 | 0.5308 | 0.4603 | 14.2 | Decachlorobiphenyl A B |

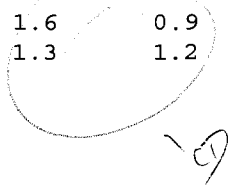
- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01454

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 1.6 | 0.9 | 0.9~ | 29-110 |
| Decachlorobiphenyl | 1.3 | 1.2 | 1.2~ | 18-151 |

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1485976 | 77.7 |
| Hexabromobiphenyl | 1091107 | 1657319 | 51.9 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1948265 | 56.0 |
| Hexabromobiphenyl | 1339634 | 2023771 | 51.1 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | | |
|-----------------------------|-------|-------|--------|--------|---------|--------------------------|-------|--------|--------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | | |
| Toxaphene | 1 | 7.086 | 0.017 | 10167 | 12.217 | 1 | 7.778 | 0.019 | 7461 | 6.261 | | |
| Toxaphene | 2 | 7.140 | 0.021 | 6781 | 11.683 | 2 | 8.027 | 0.025 | 1872 | 1.424 | | |
| Toxaphene | 3 | 7.510 | -0.013 | 24811 | 47.177 | 3 | 8.224 | -0.031 | 35473 | 62.766 | | |
| Toxaphene | 4 | 7.688 | -0.017 | 9202 | 10.513 | 4 | 8.483 | -0.012 | 2664 | 2.408 | | |
| Toxaphene | 5 | 7.774 | 0.023 | 1585 | 2.320 | 5 | 9.026 | -0.014 | 6008 | 14.084 | | |
| Toxaphene | 6 | 8.065 | 0.027 | 68078 | 137.455 | NS | --- | --- | --- | --- | | |
| Total STX-CLPAve (6 peaks): | | | | | 36.894 | Total CLP2Ave (5 peaks): | | | | | 17.389 | RPD = 72* |
| Corrected Ave (5 peaks): | | | | | 16.782 | Corrected Ave (4 peaks): | | | | | 6.044 | RPD = 94* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A071.d ARI ID: UU52I
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A071.d Client ID: MS008-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 11:40
 Compound Sublist: wpest Report Date: 05/29/2012 12:32
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 3.031 | 0.001 | 1468582 | 3.298 | 0.001 | 1925279 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B | |
| 4.452 | -0.001 | 10810 | 4.933 | 0.003 | 8282 | 0.3833 | 0.2067 | 59.9* | alpha-BHC A B | |
| 4.869 | 0.023 | 66453 | 5.360 | -0.006 | 10422 | 6.1216 | 0.6238 | 163.0* | beta-BHC A B | |
| 5.027 | 0.016 | 12795 | 5.644 | -0.009 | 9224 | 0.5707 | 0.3120 | 58.6* | delta-BHC A B | |
| 4.745 | -0.010 | 9855 | 5.270 | -0.013 | 34734 | 0.4299 | 1.0378 | 82.8* | gamma-BHC (Lindane) A B | |
| 5.208 | 0.007 | 5226 | 5.682 | -0.031 | 10771 | 0.2312 | 0.3536 | 41.9* | Heptachlor A B | |
| 5.428 | -0.049 | 11031 | 6.012 | -0.016 | 11618 | 0.4103 | 0.3089 | 28.2 | Aldrin A B | |
| 6.042 | 0.014 | 15641 | 6.562 | -0.005 | 4177 | 0.6496 | 0.1333 | 131.9* | Heptachlor epoxide b A B | |
| 6.397 | 0.012 | 3999 | 6.959 | 0.017 | 3357 | 0.1054 | 0.1102 | 4.4 | Endosulfan I A B | |
| 6.598 | -0.003 | 5527 | 7.201 | 0.001 | 2857 | 0.2148 | 0.0882 | 83.5* | Dieldrin A B | |
| 6.335 | -0.001 | 2621 | 7.025 | 0.002 | 3544 | 0.1298 | 0.0992 | 26.8 | 4,4'-DDE A B | |
| 6.779 | -0.033 | 6254 | 7.474 | -0.015 | 3116 | 0.3269 | 0.1269 | 88.1* | Endrin A B | |
| 7.012 | -0.003 | 5335 | 7.695 | 0.009 | 15943 | 0.2711 | 0.6095 | 76.8* | Endosulfan II A B | |
| 6.875 | 0.001 | 17994 | 7.563 | -0.001 | 7700 | 1.1553 | 0.3447 | 108.1* | 4,4'-DDD A B | |
| 7.762 | -0.033 | 2137 | 8.225 | -0.033 | 30843 | 0.1299 | 1.4034 | 166.1* | Endosulfan sulfate A B | |
| 7.145 | 0.022 | 6555 | 7.846 | -0.013 | 9584 | 0.6208 | 0.6879 | 10.3 | 4,4'-DDT A B | |
| 7.562 | 0.002 | 6591 | 8.483 | -0.005 | 2450 | 1.0997 | 0.3444 | 104.6* | Methoxychlor A B | |
| 8.067 | 0.011 | 8121 | 8.739 | -0.042 | 10144 | 0.3970 | 0.4274 | 7.4 | Endrin ketone A B | |
| 7.395 | -0.001 | 10699 | 7.990 | -0.009 | 3384 | 0.6833 | 0.1530 | 126.8* | Endrin aldehyde A B | |
| 6.164 | 0.022 | 4364 | 6.772 | 0.026 | 6234 | 0.1811 | 0.1849 | 2.1 | gamma-Chlordane A B | |
| 6.293 | 0.031 | 5920 | 6.884 | 0.002 | 1530 | 0.2383 | 0.0452 | 136.2* | alpha-Chlordane A B | |
| 1.735 | 0.007 | 7214 | 2.069 | 0.032 | 1693 | 0.1610 | 0.0278 | 141.0* | Hexachlorobutadiene A B | |
| 4.282 | -0.006 | 18546 | 4.800 | 0.009 | 17726 | 0.7204 | 0.4825 | 39.6 | Hexachlorobenzene A B | |
| 5.905 | -0.034 | 15901 | 6.471 | -0.011 | 21130 | 0.8963 | 0.8535 | 4.9 | Oxychlordane A B | |
| 5.991 | -0.036 | 2064 | 6.730 | -0.006 | 1360 | 0.1474 | 0.0639 | 79.0* | 2,4-DDE A B | |
| 6.216 | -0.034 | 32743 | 6.823 | -0.009 | 15351 | 1.6294 | 0.5065 | 105.1* | trans-Nonachlor A B | |
| 6.481 | -0.011 | 5139 | 7.241 | 0.026 | 6003 | 0.5139 | 0.3779 | 30.5 | 2,4-DDD A B | |
| 6.690 | -0.027 | 3746 | 7.528 | 0.025 | 18103 | 0.3726 | 1.2927 | 110.5* | 2,4-DDT A B | |
| 6.845 | 0.001 | 5591 | 7.601 | 0.044 | 5955 | 0.2440 | 0.1813 | 29.5 | cis-Nonachlor A B | |
| 7.690 | -0.019 | 1509 | 8.762 | 0.002 | 9139 | 0.1110 | 0.4314 | 118.1* | Mirex A B | |
| 9.133 | -0.005 | 1761217 | 10.432 | -0.001 | 2061329 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B | |
| 1.769 | 0.000 | 20028 | 1.759 | 0.007 | 4817851 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.915 | 0.018 | 24968 | 4.302 | 0.003 | 18391 | 1.2011 | 0.3974 | 100.5* | Tetrachloro-m-xylene A B | |
| 8.984 | 0.003 | 10208 | 9.927 | 0.006 | 12029 | 0.3430 | 0.3472 | 1.2 | Decachlorobiphenyl A B | |

- * Indicates RPD > 40%
- A Indicates Peak Area was used for Column 1 quantitation instead of Height
- B Indicates Peak Area was used for Column 2 quantitation instead of Height
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01459

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 3.0 | 1.0 | 1.0~ | 29-110 |
| Decachlorobiphenyl | 0.9 | 0.9 | 0.9~ | 18-151 |

~ Indicates recovery outside QC Limits

9

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1468582 | 75.6 |
| Hexabromobiphenyl | 1091107 | 1761217 | 61.4 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1925279 | 54.2 |
| Hexabromobiphenyl | 1339634 | 2061329 | 53.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | | |
|-----------------------------|-------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | | |
| Toxaphene | 1 | 7.087 | 0.019 | 9356 | 10.579 | 1 | 7.764 | 0.005 | 4938 | 4.069 | | |
| Toxaphene | 2 | 7.145 | 0.026 | 6555 | 10.627 | 2 | 7.990 | -0.011 | 3384 | 2.527 | | |
| Toxaphene | 3 | 7.512 | -0.011 | 19478 | 34.853 | 3 | 8.225 | -0.029 | 30843 | 53.579 | | |
| Toxaphene | 4 | 7.690 | -0.015 | 1509 | 1.623 | 4 | 8.483 | -0.013 | 2450 | 2.174 | | |
| Toxaphene | 5 | 7.762 | 0.012 | 2137 | 2.944 | 5 | 9.028 | -0.012 | 9161 | 21.084 | | |
| Toxaphene | 6 | 8.018 | -0.020 | 1623 | 3.085 | NS | --- | --- | --- | --- | | |
| Total STX-CLPAve (6 peaks): | | | | | 10.618 | Total CLP2Ave (5 peaks): | | | | | 16.687 | RPD = 44* |
| Corrected Ave (5 peaks): | | | | | 5.772 | Corrected Ave (4 peaks): | | | | | 7.464 | RPD = 26 |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

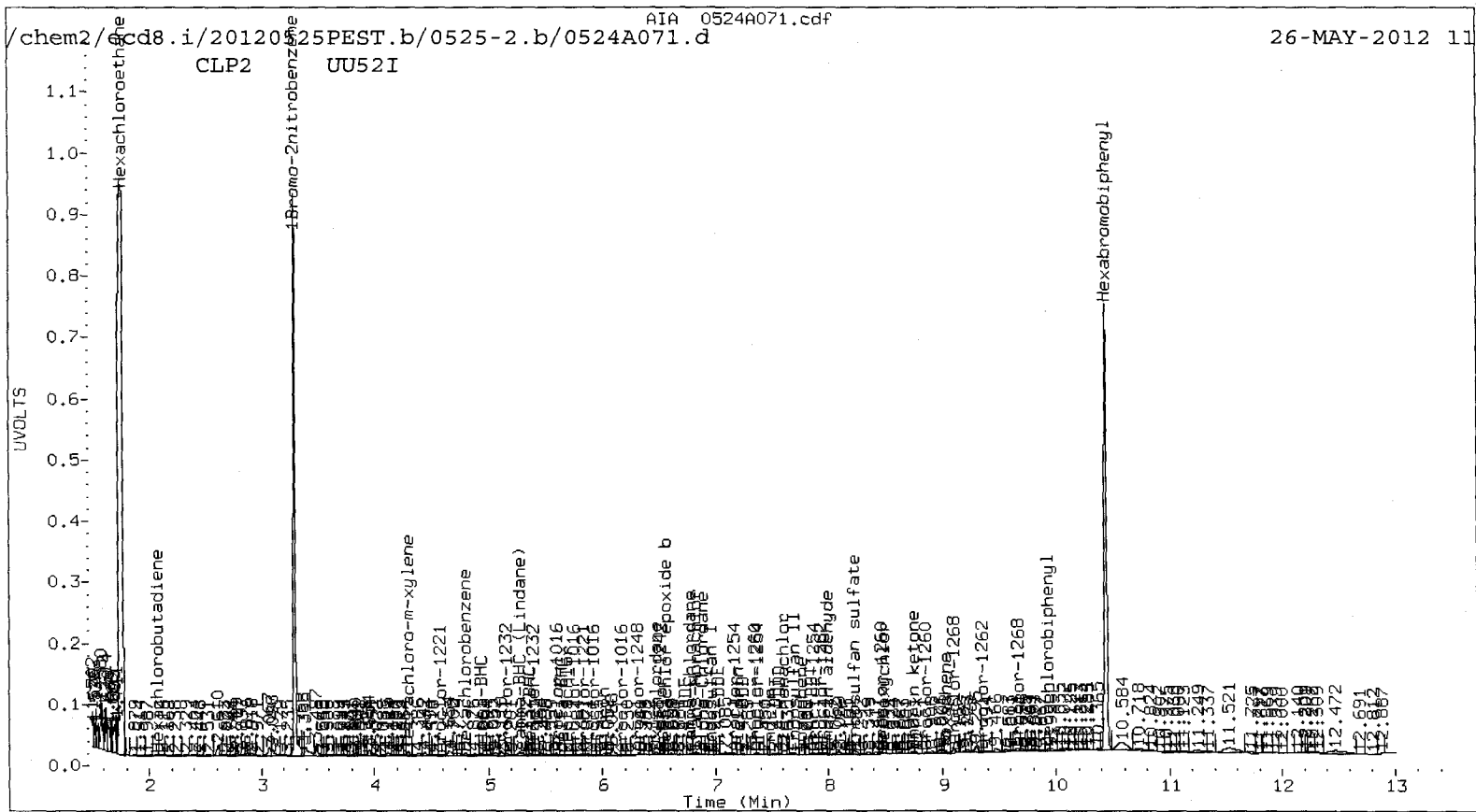
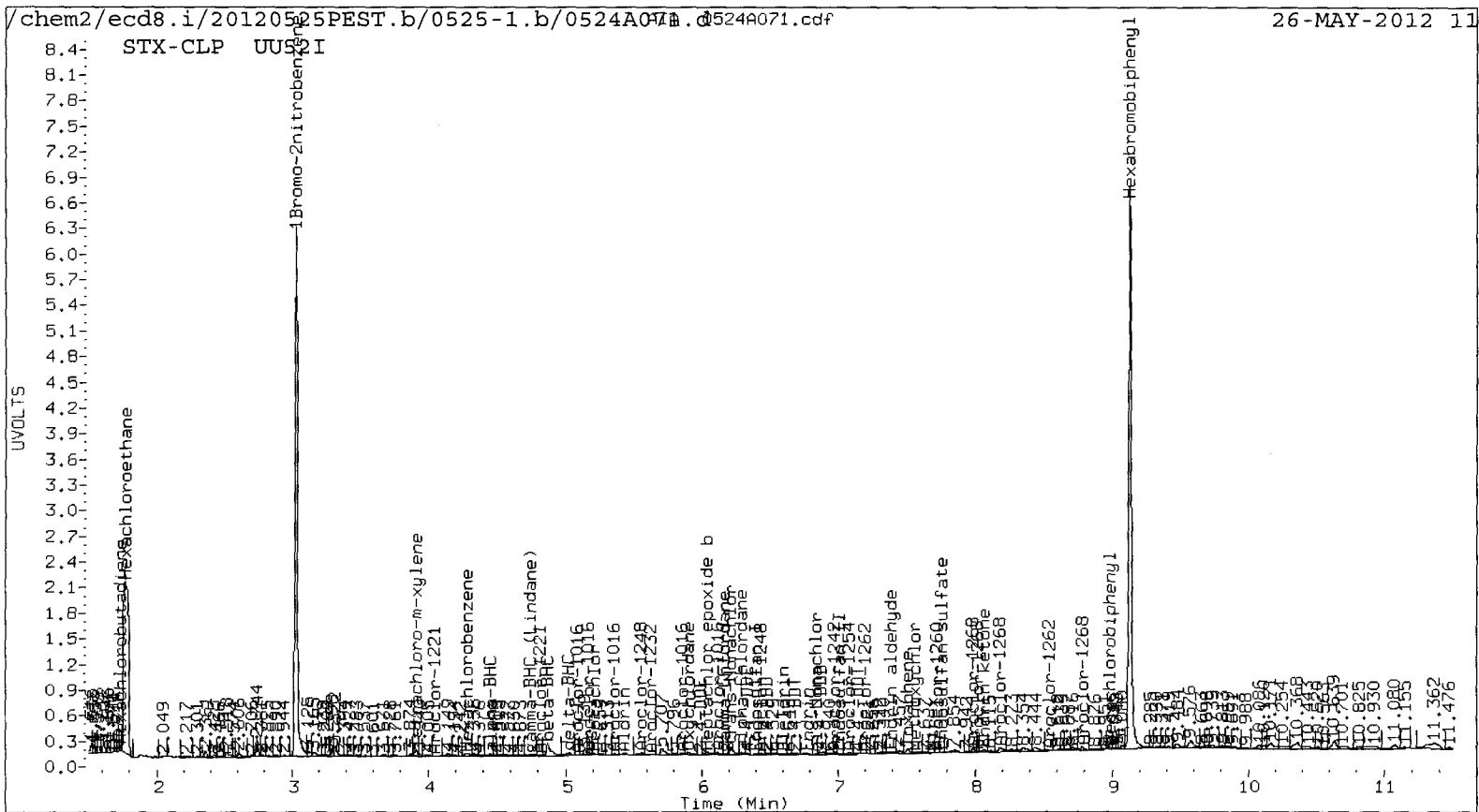
STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UU52: 01463

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A072.d ARI ID: UU52J
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A072.d Client ID: MS009-SS-120515
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 11:59
 Compound Sublist: wpest Report Date: 05/29/2012 12:33
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 100.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.031 | 0.001 | 1504730 | 3.297 | 0.001 | 1970396 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.430 | -0.023 | 17499 | 4.932 | 0.002 | 8401 | 0.6056 | 0.2049 | 98.9* | alpha-BHC A B |
| 4.868 | 0.022 | 40666 | 5.361 | -0.005 | 7015 | 3.6562 | 0.4103 | 159.6* | beta-BHC A B |
| 5.027 | 0.016 | 20950 | 5.644 | -0.008 | 12797 | 0.9120 | 0.4230 | 73.3* | delta-BHC A B |
| 4.745 | -0.011 | 10124 | 5.283 | 0.000 | 40681 | 0.4311 | 1.1877 | 93.5* | gamma-BHC (Lindane) A B |
| 5.206 | 0.005 | 13512 | 5.714 | 0.000 | 8341 | 0.5834 | 0.2676 | 74.2* | Heptachlor A B |
| 5.454 | -0.023 | 8575 | 6.011 | -0.018 | 21476 | 0.3113 | 0.5580 | 56.8* | Aldrin A B |
| 6.043 | 0.015 | 21349 | 6.560 | -0.007 | 7141 | 0.8654 | 0.2226 | 118.2* | Heptachlor epoxide b A B |
| 6.395 | 0.011 | 9961 | 6.961 | 0.019 | 15225 | 0.2563 | 0.4884 | 62.3* | Endosulfan I A B |
| 6.578 | -0.024 | 15857 | 7.202 | 0.003 | 4028 | 0.6013 | 0.1215 | 132.8* | Dieldrin A B |
| 6.333 | -0.003 | 5252 | 7.026 | 0.003 | 4672 | 0.2538 | 0.1277 | 66.1* | 4,4'-DDE A B |
| 6.769 | -0.042 | 10915 | 7.444 | -0.045 | 2372 | 0.5699 | 0.0918 | 144.5* | Endrin A B |
| 7.011 | -0.004 | 5201 | 7.696 | 0.010 | 13422 | 0.2641 | 0.4876 | 59.5* | Endosulfan II A B |
| 6.893 | 0.019 | 14461 | 7.563 | -0.001 | 3048 | 0.9275 | 0.1297 | 150.9* | 4,4'-DDD A B |
| 7.775 | -0.021 | 16801 | 8.225 | -0.033 | 18555 | 1.0202 | 0.8023 | 23.9 | Endosulfan sulfate A B |
| 7.091 | -0.032 | 9640 | 7.847 | -0.011 | 7126 | 0.9120 | 0.4861 | 60.9* | 4,4'-DDT A B |
| 7.565 | 0.004 | 15650 | 8.455 | -0.032 | 8685 | 2.6084 | 1.1603 | 76.8* | Methoxychlor A B |
| 8.070 | 0.013 | 16519 | 8.739 | -0.041 | 10170 | 0.8067 | 0.4072 | 65.8* | Endrin ketone A B |
| 7.399 | 0.003 | 32671 | 7.974 | -0.025 | 20448 | 2.0842 | 0.8784 | 81.4* | Endrin aldehyde A B |
| 6.165 | 0.022 | 9188 | 6.771 | 0.025 | 13218 | 0.3721 | 0.3830 | 2.9 | gamma-Chlordane A B |
| 6.292 | 0.031 | 8644 | 6.881 | -0.001 | 5640 | 0.3396 | 0.1628 | 70.4* | alpha-Chlordane A B |
| 1.724 | -0.004 | 5163 | ---- | ---- | ---- | 0.1125 | 0.0000 | --- | Hexachlorobutadiene |
| 4.286 | -0.001 | 24183 | 4.796 | 0.005 | 16832 | 0.9168 | 0.4477 | 68.8* | Hexachlorobenzene A B |
| 5.942 | 0.003 | 4036 | 6.471 | -0.011 | 26855 | 0.2273 | 1.0599 | 129.4* | Oxychlordane A B |
| 5.986 | -0.041 | 5138 | 6.730 | -0.006 | 7919 | 0.3665 | 0.3638 | 0.8 | 2,4-DDE A B |
| 6.215 | -0.034 | 30985 | 6.823 | -0.008 | 20802 | 1.5403 | 0.6523 | 81.0* | trans-Nonachlor A B |
| 6.479 | -0.012 | 12671 | 7.244 | 0.029 | 16236 | 1.2659 | 0.9713 | 26.3 | 2,4-DDD A B |
| 6.688 | -0.030 | 7846 | 7.498 | -0.005 | 7070 | 0.7796 | 0.4798 | 47.6* | 2,4-DDT A B |
| 6.844 | -0.001 | 4777 | 7.527 | -0.030 | 10270 | 0.2083 | 0.2972 | 35.2 | cis-Nonachlor A B |
| 7.720 | 0.011 | 9574 | 8.764 | 0.004 | 12808 | 0.7033 | 0.5746 | 20.1 | Mirex A B |
| 9.133 | -0.006 | 1763076 | 10.432 | -0.001 | 2169151 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 1.767 | -0.002 | 9154 | 1.757 | 0.005 | 2221337 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.898 | 0.002 | 18188 | 4.301 | 0.003 | 27210 | 0.8539 | 0.5746 | 39.1 | Tetrachloro-m-xylene A B |
| 8.987 | 0.007 | 33734 | 9.927 | 0.006 | 11770 | 1.1324 | 0.3228 | 111.3* | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01464

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 2.1 | 1.4 | 1.4~ | 29-110 |
| Decachlorobiphenyl | 2.8 | 0.8 | 0.8~ | 18-151 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 836406 | 1504730 | 79.9 |
| Hexabromobiphenyl | 1091107 | 1763076 | 61.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1248621 | 1970396 | 57.8 |
| Hexabromobiphenyl | 1339634 | 2169151 | 61.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 25-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|------------------------------------|-------|-------|--------|--------|---------------------------------|----------|-------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 7.091 | 0.023 | 9640 | 10.889 | 1 | 7.752 | -0.008 | 3291 | 2.577 |
| Toxaphene | 2 | 7.147 | 0.028 | 8288 | 13.423 | 2 | 8.025 | 0.024 | 1624 | 1.153 |
| Toxaphene | 3 | 7.511 | -0.012 | 29619 | 52.941 | 3 | 8.225 | -0.029 | 18555 | 30.631 |
| Toxaphene | 4 | 7.720 | 0.015 | 9574 | 10.281 | 4 | 8.533 | 0.037 | 5249 | 4.426 |
| Toxaphene | 5 | 7.775 | 0.025 | 16801 | 23.115 | 5 | 9.029 | -0.011 | 8739 | 19.113 |
| Toxaphene | 6 | 8.017 | -0.021 | 16662 | 31.624 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 23.712 | | | | | Total CLP2Ave (5 peaks): 11.580 | | | | | RPD = 69* |
| Corrected Ave (5 peaks): 17.866 | | | | | Corrected Ave (4 peaks): 6.817 | | | | | RPD = 90* |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

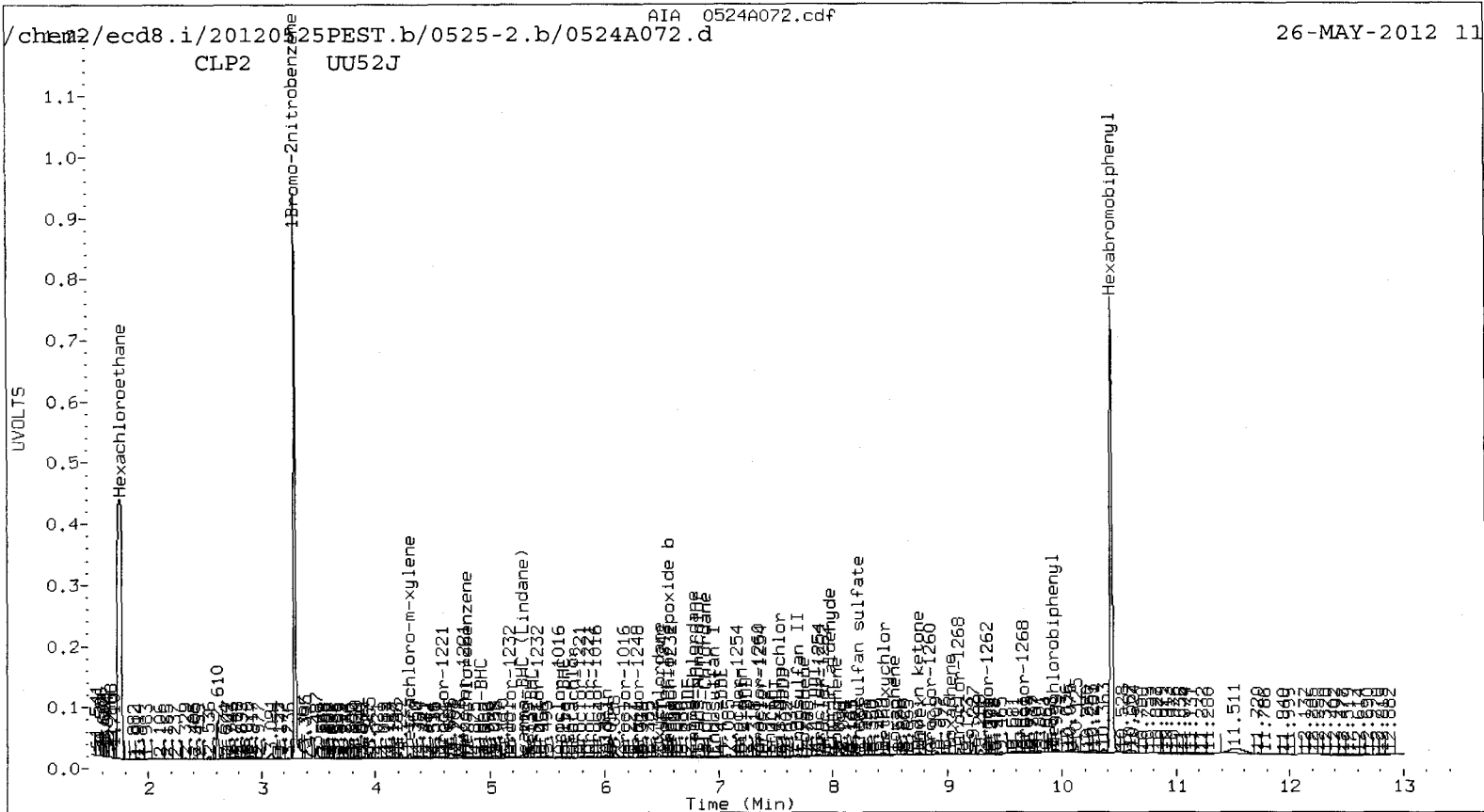
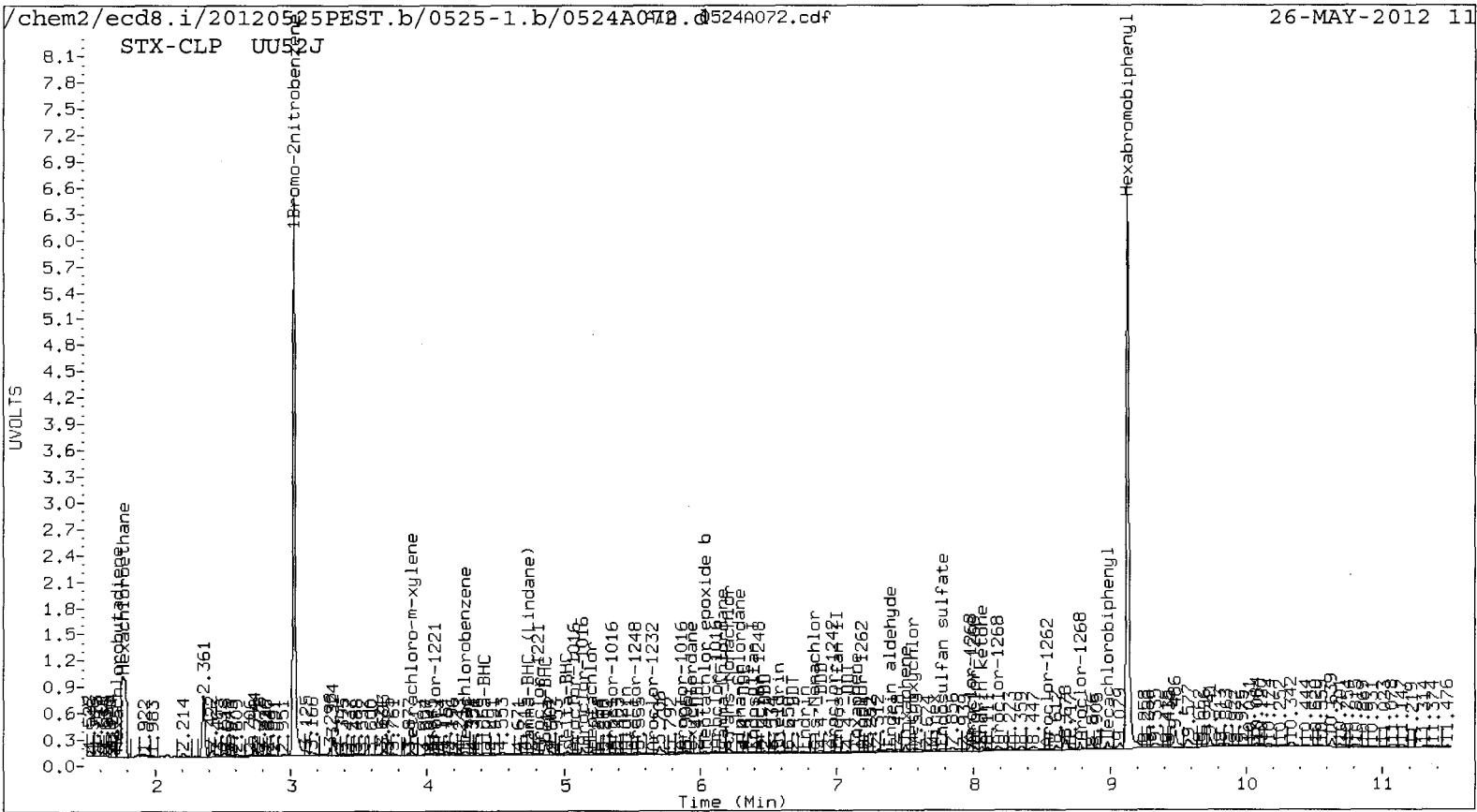
CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks



UU52: 01468

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd8.i/20120525PEST.b/0525-1.b/0524A077.d ARI ID: INDAE
 Data file 2: /chem2/ecd8.i/20120525PEST.b/0525-2.b/0524A077.d Client ID:
 Method: /chem2/ecd8.i/20120525PEST.b/PEST0525.m Injection Date: 26-MAY-2012 13:33
 Compound Sublist: INDA Report Date: 05/29/2012 12:07
 Instrument, Inj. Vol.: ecd8.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|----------|----------|-------|--------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.031 | 0.001 | 1321741 | 3.297 | 0.001 | 1755648 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene A B |
| 4.455 | 0.002 | 489565 | 4.930 | 0.001 | 711094 | 19.2888 | 19.4626 | 0.9 | alpha-BHC A B |
| 4.849 | 0.003 | 166803 | 5.369 | 0.002 | 278921 | 17.0728 | 18.3073 | 7.0 | beta-BHC A B |
| 5.013 | 0.002 | 358857 | 5.655 | 0.003 | 509997 | 17.7851 | 18.9191 | 6.2 | delta-BHC A B |
| 4.757 | 0.002 | 404496 | 5.284 | 0.001 | 577114 | 19.6070 | 18.9099 | 3.6 | gamma-BHC (Lindane) A B |
| 5.203 | 0.002 | 401422 | 5.715 | 0.001 | 465845 | 19.7309 | 16.7707 | 16.2 | Heptachlor A B |
| 5.479 | 0.001 | 467924 | 6.030 | 0.002 | 641705 | 19.3372 | 18.7119 | 3.3 | Aldrin A B |
| 6.030 | 0.002 | 412181 | 6.569 | 0.002 | 546510 | 19.0204 | 19.1185 | 0.5 | Heptachlor epoxide b A B |
| 6.387 | 0.002 | 569590 | 6.944 | 0.002 | 521092 | 16.6857 | 18.7602 | 11.7 | Endosulfan I A B |
| 6.604 | 0.003 | 939039 | 7.201 | 0.002 | 1160971 | 40.5403 | 39.3077 | 3.1 | Dieldrin A B |
| 6.340 | 0.004 | 597637 | 7.027 | 0.004 | 1222747 | 31.5917 | 37.5203 | 17.2 | 4,4'-DDE A B |
| 6.814 | 0.002 | 790479 | 7.492 | 0.002 | 882717 | 41.9633 | 38.6640 | 8.2 | Endrin A B |
| 7.018 | 0.003 | 799067 | 7.689 | 0.003 | 1036128 | 41.2505 | 42.6029 | 3.2 | Endosulfan II A B |
| 6.880 | 0.006 | 724899 | 7.569 | 0.005 | 998456 | 47.2719 | 48.0752 | 1.7 | 4,4'-DDD A B |
| 7.798 | 0.003 | 639608 | 8.261 | 0.002 | 764919 | 39.4914 | 37.4364 | 5.3 | Endosulfan sulfate A B |
| 7.128 | 0.005 | 194709 | 7.862 | 0.004 | 148238 | 18.7296 | 11.4450 | 48.3* | 4,4'-DDT A B |
| 7.565 | 0.004 | 795423 | 8.491 | 0.003 | 680406 | 134.8019 | 102.8839 | 26.9 | Methoxychlor A B |
| 8.059 | 0.003 | 706521 | 8.783 | 0.003 | 677972 | 35.0832 | 30.7224 | 13.3 | Endrin ketone A B |
| 7.399 | 0.003 | 583111 | 8.001 | 0.002 | 754844 | 37.8247 | 36.7014 | 3.0 | Endrin aldehyde A B |
| 6.145 | 0.002 | 428023 | 6.748 | 0.002 | 573027 | 19.7337 | 18.6331 | 5.7 | gamma-Chlordane A B |
| 6.264 | 0.002 | 414609 | 6.883 | 0.002 | 560586 | 18.5407 | 18.1630 | 2.1 | alpha-Chlordane A B |
| 1.730 | 0.002 | 622450 | 2.038 | 0.001 | 884638 | 15.4367 | 15.9447 | 3.2 | Hexachlorobutadiene A B |
| 4.289 | 0.002 | 336457 | 4.793 | 0.002 | 524196 | 14.5215 | 15.6475 | 7.5 | Hexachlorobenzene A B |
| 9.140 | 0.002 | 1733918 | 10.436 | 0.002 | 1916442 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl A B |
| 3.898 | 0.002 | 520911 | 4.300 | 0.001 | 1350554 | 27.8417 | 32.0063 | 13.9 | Tetrachloro-m-xylene A B |
| 8.983 | 0.003 | 853589 | 9.925 | 0.004 | 1074146 | 29.1360 | 33.3445 | 13.5 | Decachlorobiphenyl A B |

* Indicates RPD > 40%

A Indicates Peak Area was used for Column 1 quantitation instead of Height

B Indicates Peak Area was used for Column 2 quantitation instead of Height

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 69.6 | 80.0 | 69.6~ | 85-115 |
| Decachlorobiphenyl | 72.8 | 83.4 | 72.8~ | 85-115 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

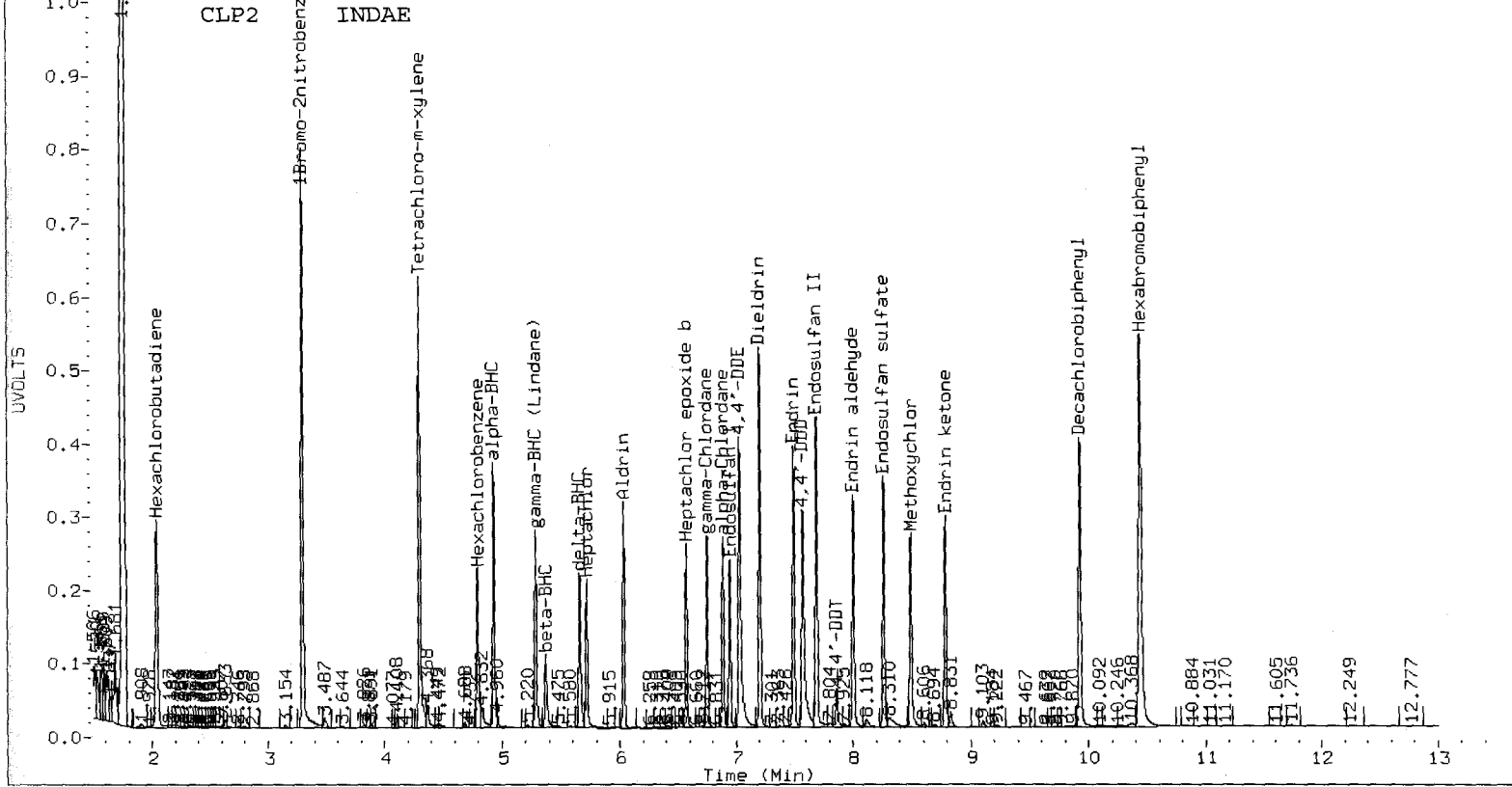
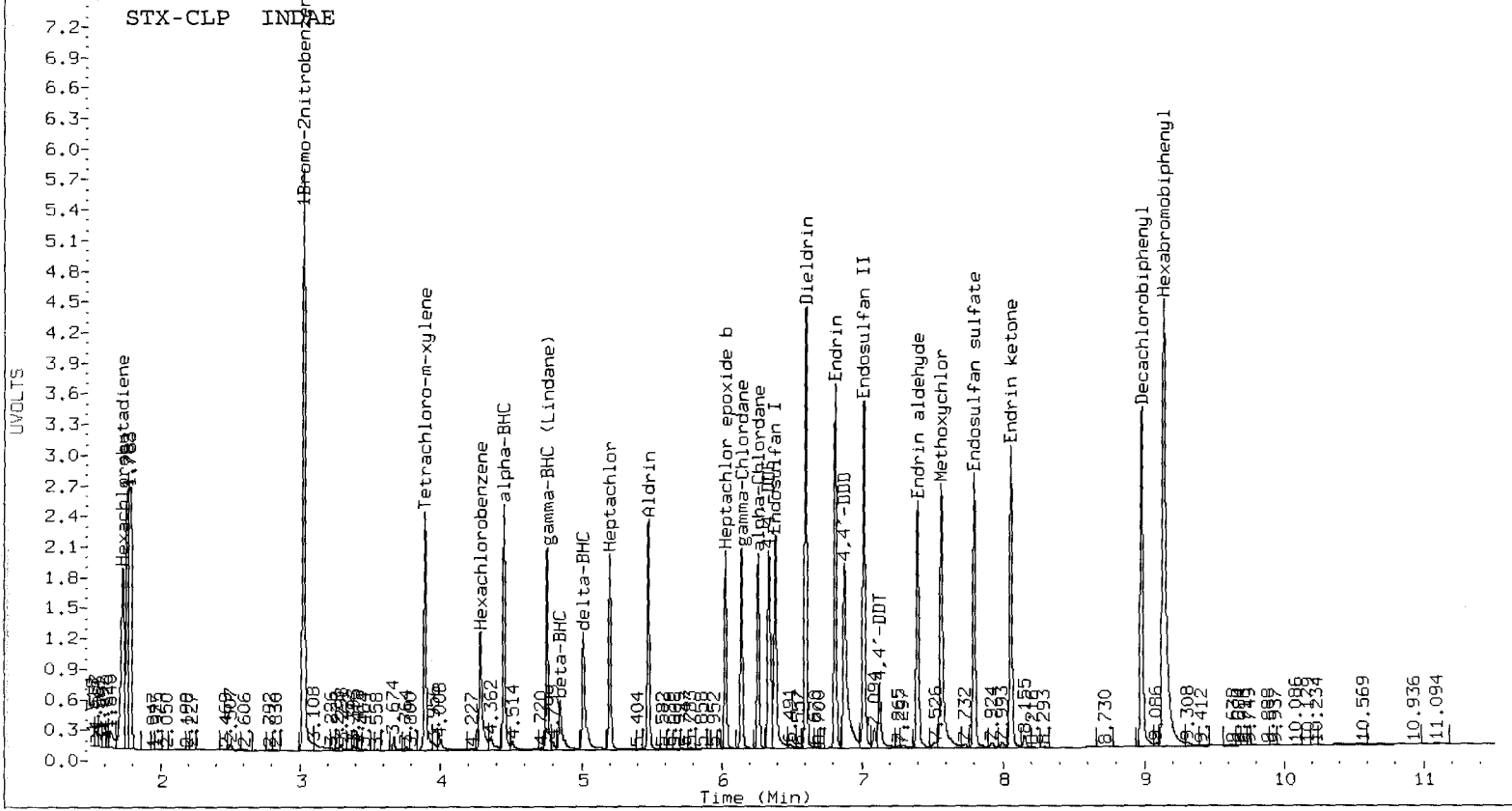
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 836406 | 1321741 | 58.0 |
| Hexabromobiphenyl | 1091107 | 1733918 | 58.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1248621 | 1755648 | 40.6 |
| Hexabromobiphenyl | 1339634 | 1916442 | 43.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 25-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |

=====



GC Analyst Notes / Corrective Action Log

ARI Project ID: uu62 Client ID: Anchor

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): 500mL/50mL FV
AR 5/23/12

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/23/2012 Analysis Start: 5/23/2012

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

Level 4 VDP

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/25/2012

Reviewer: [Signature] Date: 5/25/12

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A087.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A087.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 14:31
 Compound Sublist: INDA Report Date: 05/25/2012 15:53
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|----------|----------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 5138026 | 2.854 | -0.001 | 17460248 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | -0.001 | 2153795 | 4.106 | -0.001 | 5935110 | 21.0096 | 19.9622 | 5.1 | alpha-BHC |
| 4.184 | 0.002 | 767688 | 4.502 | 0.000 | 2127626 | 20.0768 | 18.6027 | 7.6 | beta-BHC |
| 4.339 | 0.002 | 1572221 | 4.782 | 0.000 | 4277431 | 21.0210 | 20.1555 | 4.2 | delta-BHC |
| 4.106 | 0.000 | 1791172 | 4.427 | -0.002 | 4944162 | 20.8287 | 19.4896 | 6.6 | gamma-BHC (Lindane) |
| 4.517 | -0.001 | 1960354 | 4.848 | -0.002 | 4778170 | 20.6506 | 18.7159 | 9.8 | Heptachlor |
| 4.787 | 0.000 | 1813780 | 5.169 | -0.002 | 4217518 | 20.8305 | 19.0596 | 8.9 | Aldrin |
| 5.346 | 0.000 | 1557022 | 5.730 | -0.002 | 4080766 | 20.0808 | 19.0093 | 5.5 | Heptachlor epoxide b |
| 5.721 | -0.001 | 2061698 | 6.116 | -0.002 | 3510584 | 19.6991 | 18.7882 | 4.7 | Endosulfan I |
| 5.945 | -0.001 | 3392010 | 6.375 | -0.002 | 7390693 | 40.7062 | 38.2616 | 6.2 | Dieldrin |
| 5.672 | 0.002 | 2362843 | 6.208 | 0.000 | 6578937 | 44.8223 | 38.5112 | 15.1 | 4,4'-DDE |
| 6.162 | -0.001 | 3033187 | 6.662 | -0.002 | 6080394 | 40.3659 | 37.0089 | 8.7 | Endrin |
| 6.371 | 0.000 | 2927734 | 6.855 | -0.002 | 6093442 | 40.0343 | 36.6055 | 8.9 | Endosulfan II |
| 6.229 | 0.002 | 2504898 | 6.748 | -0.001 | 5216612 | 42.3376 | 37.9962 | 10.8 | 4,4'-DDD |
| 7.137 | -0.001 | 2548990 | 7.402 | -0.002 | 4799767 | 39.6453 | 37.5285 | 5.5 | Endosulfan sulfate |
| 6.484 | 0.000 | 2710876 | 7.033 | -0.001 | 5171564 | 41.7212 | 38.2535 | 8.7 | 4,4'-DDT |
| 6.923 | 0.000 | 6399917 | 7.627 | -0.002 | 10016532 | 193.3285 | 169.6117 | 13.1 | Methoxychlor |
| 7.388 | -0.001 | 3136573 | 7.880 | -0.002 | 6123268 | 38.4814 | 37.1882 | 3.4 | Endrin ketone |
| 6.748 | 0.000 | 2319970 | 7.156 | -0.002 | 4648545 | 39.3377 | 36.6649 | 7.0 | Endrin aldehyde |
| 5.469 | 0.000 | 1702337 | 5.917 | -0.001 | 3845309 | 20.2478 | 19.3050 | 4.8 | gamma-Chlordane |
| 5.594 | 0.000 | 1540833 | 6.056 | -0.002 | 3593719 | 19.2579 | 18.9577 | 1.6 | alpha-Chlordane |
| 2.053 | -0.001 | 2265284 | 2.111 | -0.001 | 6151347 | 19.9942 | 19.0584 | 4.8 | Hexachlorobutadiene |
| 3.718 | 0.002 | 1384434 | 3.995 | 0.000 | 5200452 | 19.5905 | 19.1545 | 2.3 | Hexachlorobenzene |
| 8.389 | -0.004 | 6987948 | 9.353 | -0.004 | 9570322 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 | 3009166 | 3.587 | -0.001 | 8470664 | 39.5805 | 39.0944 | 1.2 | Tetrachloro-m-xylene |
| 8.250 | -0.001 | 2897118 | 8.907 | -0.002 | 4907198 | 36.9053 | 37.0376 | 0.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 99.0 | 97.7 | 97.7~ | 115- 0 |
| Decachlorobiphenyl | 92.3 | 92.6 | 92.3~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 5138026 | 6.1 |
| Hexabromobiphenyl | 6506091 | 6987948 | 7.4 |

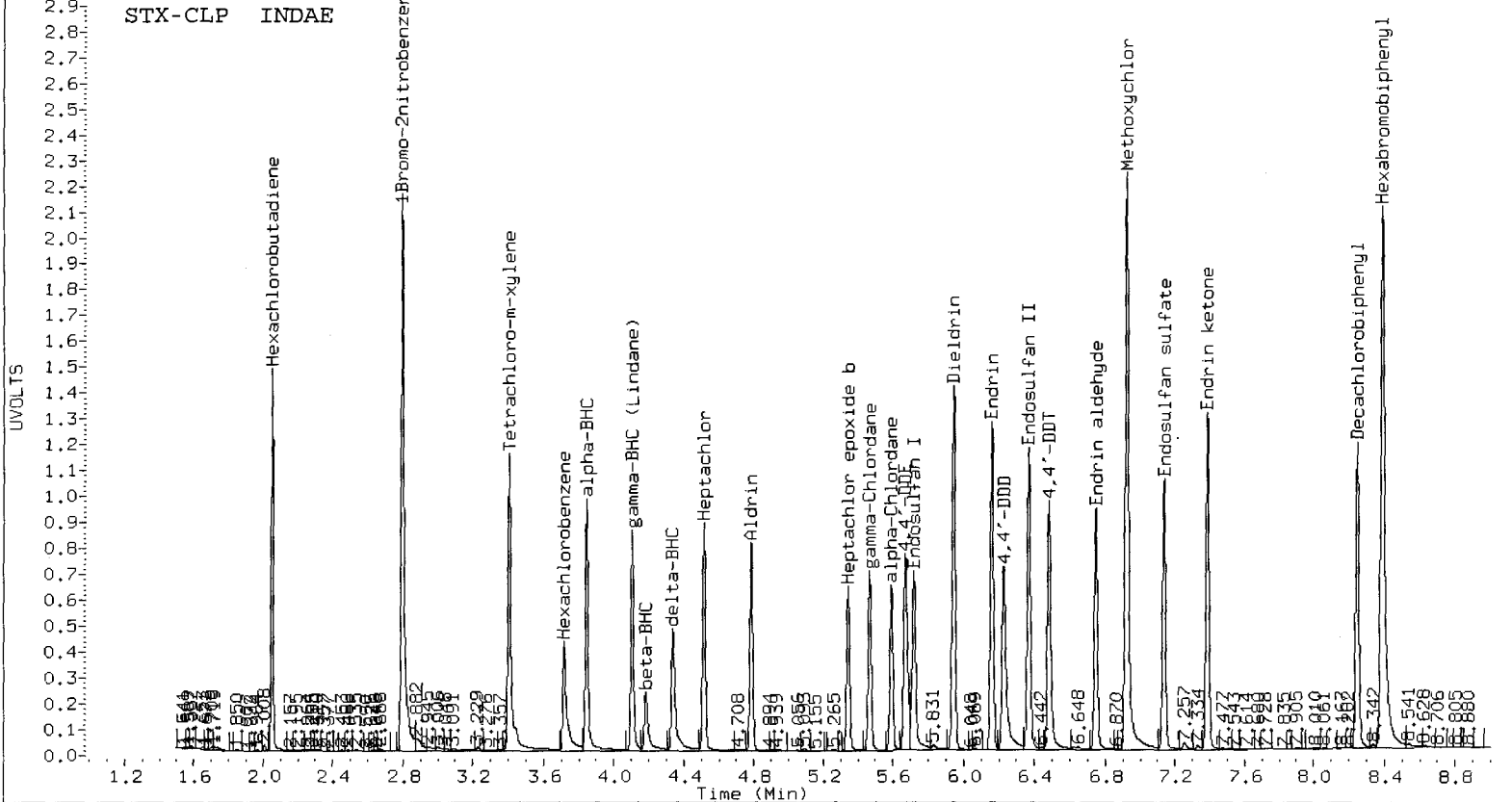
| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 17460248 | 7.6 |
| Hexabromobiphenyl | 8472750 | 9570322 | 13.0 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

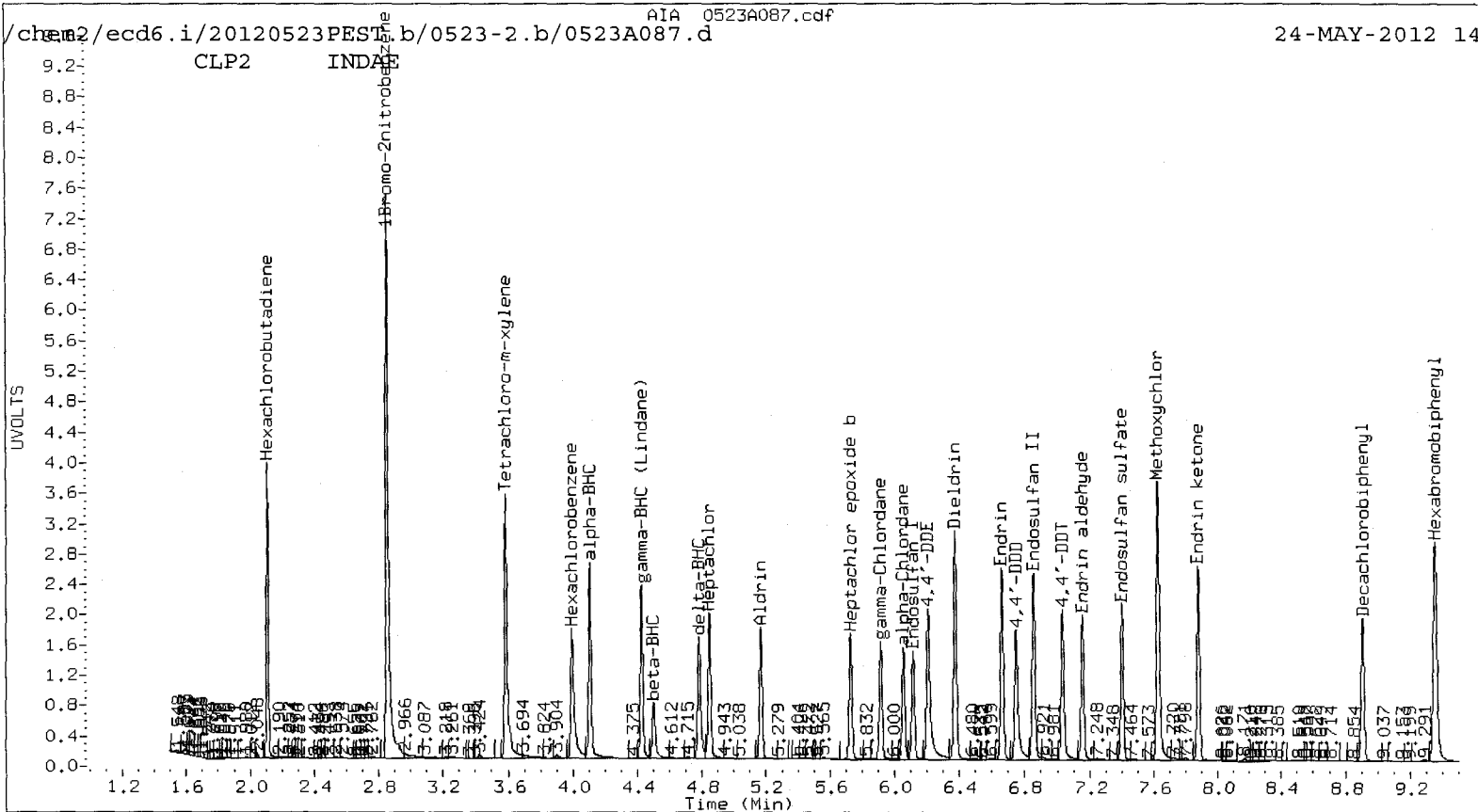
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP INDAE



CLP2 INDAE



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A090.d ARI ID: UU37MBW1
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A090.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 15:24
 Compound Sublist: wpest Report Date: 05/25/2012 08:42
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | Col Response | RT | CLP2 Col Shift Response | Col Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|-----------------|-------|----------------------------|-----------------|-------------------|----------------|--------|----------------------|
| 2.794 | -0.002 | 5071443 | 2.853 | -0.002 | 15720442 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.831 | -0.015 | 21195 | 4.091 | -0.017 | 13606 | 0.2095 | 0.0508 | 121.9* | alpha-BHC |
| 4.193 | 0.011 | 12211 | 4.525 | 0.023 | 7446 | 0.3235 | 0.0723 | 126.9* | beta-BHC |
| 4.329 | -0.008 | 9273 | 4.778 | -0.005 | 15514 | 0.1256 | 0.0812 | 43.0* | delta-BHC |
| 4.102 | -0.004 | 27230 | 4.425 | -0.003 | 10815 | 0.3208 | 0.0474 | 148.6* | gamma-BHC (Lindane) |
| 4.516 | -0.002 | 8053 | 4.846 | -0.003 | 25863 | 0.0860 | 0.1125 | 26.8 | Heptachlor |
| 4.785 | -0.002 | 1615 | 5.186 | 0.015 | 382154 | 0.0188 | 1.9181 | 196.1* | Aldrin |
| 5.356 | 0.011 | 24285 | 5.714 | -0.019 | 158006 | 0.3173 | 0.8175 | 88.2* | Heptachlor epoxide b |
| 5.723 | 0.002 | 8962 | 6.137 | 0.019 | 77865 | 0.0868 | 0.4628 | 136.9* | Endosulfan I |
| 5.944 | -0.002 | 21813 | 6.378 | 0.001 | 59957 | 0.2652 | 0.3448 | 26.1 | Dieldrin |
| 5.667 | -0.003 | 8756 | 6.205 | -0.003 | 81412 | 0.1683 | 0.5293 | 103.5* | 4,4'-DDE |
| 6.161 | -0.002 | 7504 | ---- | ---- | ---- | 0.0974 | 0.0000 | --- | Endrin |
| 6.366 | -0.004 | 13186 | 6.854 | -0.003 | 128856 | 0.1758 | 0.7773 | 126.2* | Endosulfan II |
| ---- | ---- | ---- | 6.709 | -0.039 | 56829 | 0.0000 | 0.4156 | --- | 4,4'-DDD |
| 7.136 | -0.002 | 11934 | 7.398 | -0.007 | 16867 | 0.1810 | 0.1324 | 31.0 | Endosulfan sulfate |
| 6.483 | 0.000 | 35212 | 7.033 | -0.001 | 175974 | 0.5284 | 1.3071 | 84.8* | 4,4'-DDT |
| 6.924 | 0.001 | 33914 | ---- | ---- | ---- | 0.9990 | 0.0000 | --- | Methoxychlor |
| 7.405 | 0.016 | 30803 | 7.916 | 0.034 | 48987 | 0.3685 | 0.2987 | 20.9 | Endrin ketone |
| 6.704 | -0.044 | 37365 | 7.143 | -0.015 | 113503 | 0.6178 | 0.8990 | 37.1 | Endrin aldehyde |
| 5.473 | 0.003 | 84236 | 5.949 | 0.030 | 299581 | 1.0151 | 1.6705 | 48.8* | gamma-Chlordane |
| 5.632 | 0.038 | 6458 | 6.049 | -0.008 | 84121 | 0.0818 | 0.4929 | 143.1* | alpha-Chlordane |
| 2.051 | -0.002 | 30766 | 2.108 | -0.004 | 157994 | 0.2751 | 0.5437 | 65.6* | Hexachlorobutadiene |
| 3.714 | -0.003 | 94243 | 3.991 | -0.003 | 23669 | 1.3511 | 0.0968 | 173.3* | Hexachlorobenzene |
| 5.250 | -0.002 | 6673 | 5.616 | -0.027 | 53874 | 0.1006 | 0.3506 | 110.8* | Oxychlordane |
| 5.292 | -0.050 | 4500 | 5.909 | 0.000 | 42514 | 0.0964 | 0.4250 | 126.1* | 2,4-DDE |
| 5.584 | 0.003 | 11567 | 6.001 | -0.005 | 121828 | 0.1364 | 0.6271 | 128.5* | trans-Nonachlor |
| 5.827 | -0.003 | 9131 | 6.395 | -0.004 | 84609 | 0.2122 | 0.7799 | 114.4* | 2,4-DDD |
| 6.067 | -0.002 | 16698 | 6.681 | -0.004 | 177261 | 0.2945 | 1.5040 | 134.5* | 2,4-DDT |
| 6.197 | 0.000 | 16712 | 6.731 | -0.003 | 220131 | 0.1780 | 1.1235 | 145.3* | cis-Nonachlor |
| 7.062 | -0.001 | 21556 | 7.860 | -0.003 | 125492 | 0.3465 | 1.0658 | 101.9* | Mirex |
| 8.386 | -0.007 | 7166255 | 9.352 | -0.005 | 9530794 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.716 | -0.003 | 92693 | 1.766 | -0.003 | 28516 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.405 | -0.001 | 1940009 | 3.585 | -0.002 | 5382066 | 25.8526 | 27.5887 | 6.5 | Tetrachloro-m-xylene |
| 8.250 | -0.001 | 2319618 | 8.907 | -0.002 | 3989338 | 28.8136 | 30.2348 | 4.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01476

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 64.6 | 69.0 | 64.6~ | 130- 0 |
| Decachlorobiphenyl | 72.0 | 75.6 | 72.0~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 5071443 | 4.7 |
| Hexabromobiphenyl | 6506091 | 7166255 | 10.1 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15720442 | -3.1 |
| Hexabromobiphenyl | 8472750 | 9530794 | 12.5 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | | | |
|-----------------------------|-------|-------|-------|--------|----------|--------------------------|-------|--------|--------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | | |
| Toxaphene | 1 | --- | | | 0.000 | 1 | 6.583 | -0.024 | 226985 | 43.810 | | |
| Toxaphene | 2 | 6.483 | 0.009 | 35212 | 13.498 | 2 | 6.946 | 0.015 | 23207 | 3.002 | | |
| Toxaphene | 3 | 6.704 | 0.031 | 37365 | 15.539 | 3 | 7.185 | 0.020 | 94267 | 11.597 | | |
| Toxaphene | 4 | 6.924 | 0.046 | 33914 | 13.113 | 4 | --- | | | 0.000 | | |
| Toxaphene | 5 | 7.062 | 0.006 | 21556 | 5.468 | 5 | 7.717 | 0.048 | 17595 | 2.000 | | |
| Toxaphene | 6 | 7.405 | 0.029 | 30803 | 11.149 | NS | --- | | | ---- | | |
| Total STX-CLPAve (5 peaks): | | | | | 11.753 | Total CLP2Ave (4 peaks): | | | | | 15.102 | RPD = 25 |
| Corrected Ave (5 peaks): | | | | | 11.753 | Corrected Ave (3 peaks): | | | | | 5.533 | RPD = 72* |

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1016 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1016 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1016 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1016 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1016 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1221 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1221 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1221 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1221 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1232 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1232 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1232 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1232 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1232 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|----|-----|--|--|-------|
| Aroclor-1242 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1242 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1242 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1242 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1242 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| Aroclor-1242 | 6 | --- | | | 0.000 | NS | --- | | | ---- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 4/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A091.d ARI ID: UU37LCSW1
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A091.d Client ID: UU37LCSW1
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 15:42
 Compound Sublist: wpest Report Date: 05/25/2012 16:00
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|-------------------|-------------------|--------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.794 | -0.003 | 5352442 | 2.852 | -0.002 | 16498690 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 3.845 | -0.001 | 1786051 | 4.105 | -0.003 | 4623209 | 16.7244 | 16.4560 | 1.6 | alpha-BHC | |
| 4.181 | -0.001 | 682867 | 4.499 | -0.003 | 1781809 | 17.1432 | 16.4871 | 3.9 | beta-BHC | |
| 4.335 | -0.002 | 1453725 | 4.779 | -0.003 | 4229148 | 18.6581 | 21.0894 | 12.2 | delta-BHC | |
| 4.105 | -0.001 | 1684809 | 4.426 | -0.003 | 4362772 | 18.8070 | 18.2001 | 3.3 | gamma-BHC (Lindane) | |
| 4.516 | -0.002 | 1566504 | 4.847 | -0.002 | 3598633 | 15.8407 | 14.9172 | 6.0 | Heptachlor | |
| 4.786 | -0.001 | 1398286 | 5.168 | -0.003 | 3176964 | 15.4154 | 15.1939 | 1.4 | Aldrin | |
| 5.345 | -0.001 | 1480410 | 5.730 | -0.002 | 3753567 | 18.3279 | 18.5041 | 1.0 | Heptachlor epoxide b | |
| 5.720 | -0.002 | 913494 | 6.115 | -0.002 | 1762576 | 8.3786 | 9.9828 | 17.5 | Endosulfan I | |
| 5.945 | -0.001 | 3129316 | 6.375 | -0.002 | 6852721 | 36.0493 | 37.5441 | 4.1 | Dieldrin | |
| 5.667 | -0.003 | 2715169 | 6.204 | -0.004 | 6331931 | 49.4425 | 39.2254 | 23.0 | 4,4'-DDE | |
| 6.162 | -0.001 | 2942582 | 6.662 | -0.003 | 6076269 | 36.7045 | 35.6874 | 2.8 | Endrin | |
| 6.369 | -0.001 | 1741077 | 6.855 | -0.002 | 3806095 | 22.3149 | 22.0631 | 1.1 | Endosulfan II | |
| 6.225 | -0.002 | 2510998 | 6.745 | -0.004 | 5350774 | 39.7794 | 37.6072 | 5.6 | 4,4'-DDD | |
| 7.137 | -0.001 | 2448448 | 7.402 | -0.002 | 4489876 | 35.6936 | 33.8749 | 5.2 | Endosulfan sulfate | |
| 6.482 | -0.002 | 2666218 | 7.032 | -0.002 | 5068325 | 38.4608 | 36.1757 | 6.1 | 4,4'-DDT | |
| 6.921 | -0.002 | 6170249 | 7.627 | -0.002 | 9736818 | 174.7027 | 159.0956 | 9.4 | Methoxychlor | |
| 7.387 | -0.001 | 3034299 | 7.880 | -0.002 | 5996791 | 34.8923 | 35.1433 | 0.7 | Endrin ketone | |
| 6.747 | -0.002 | 1221302 | 7.156 | -0.002 | 3292573 | 19.4100 | 25.0595 | 25.4 | Endrin aldehyde | |
| 5.469 | -0.001 | 1640669 | 5.916 | -0.002 | 3819127 | 18.7326 | 20.2910 | 8.0 | gamma-Chlordane | |
| 5.593 | -0.001 | 1456692 | 6.055 | -0.002 | 3301632 | 17.4769 | 18.4320 | 5.3 | alpha-Chlordane | |
| 2.051 | -0.003 | 1085395 | 2.110 | -0.003 | 2856993 | 9.1963 | 9.3676 | 1.8 | Hexachlorobutadiene | |
| 3.715 | -0.001 | 1123433 | 3.993 | -0.002 | 3817489 | 15.2604 | 14.8802 | 2.5 | Hexachlorobenzene | |
| 5.264 | 0.012 | 7393 | 5.616 | -0.028 | 30525 | 0.1071 | 0.1893 | 55.4* | Oxychlorodane | |
| 5.292 | -0.050 | 6326 | 5.874 | -0.035 | 61548 | 0.1302 | 0.5862 | 127.3* | 2,4-DDE | |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | trans-Nonachlor | |
| 5.828 | -0.002 | 43938 | ---- | ---- | ---- | 0.9813 | 0.0000 | --- | 2,4-DDD | |
| 6.066 | -0.002 | 24956 | ---- | ---- | ---- | 0.4231 | 0.0000 | --- | 2,4-DDT | |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | cis-Nonachlor | |
| 7.070 | 0.007 | 18283 | 7.836 | -0.027 | 51361 | 0.2825 | 0.4192 | 39.0 | Mirex | |
| 8.386 | -0.007 | 7455456 | 9.351 | -0.006 | 9917993 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 1.700 | -0.019 | 159736 | 1.765 | -0.005 | 23586 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.404 | -0.002 | 1857060 | 3.585 | -0.003 | 5419425 | 23.4480 | 26.4698 | 12.1 | Tetrachloro-m-xylene | |
| 8.249 | -0.001 | 2409685 | 8.906 | -0.002 | 4205582 | 28.7713 | 30.6294 | 6.3 | Decachlorobiphenyl | |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01481

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|-------|-------------|
| Tetrachloro-m-xylene | 58.6 | 66.2 | 58.6 | 52-100 |
| Decachlorobiphenyl | 71.9 | 76.6 | 71.9 | 54-100 |
| alpha-BHC | 83.6 | 82.3 | 82.3 | 73-107 |
| beta-BHC | 85.7 | 82.4 | 82.4 | 68-116 |
| delta-BHC | 93.3 | 105.4 | 93.3 | 42-114 |
| gamma-BHC (Lindane) | 94.0 | 91.0 | 91.0 | 75-111 |
| Heptachlor | 79.2 | 74.6 | 74.6 | 60-100 |
| Aldrin | 77.1 | 76.0 | 76.0 | 54-101 |
| Heptachlor epoxide b | 91.6 | 92.5 | 91.6 | 72-116 |
| + Endosulfan I | 41.9 | 49.9 | 41.9~ | 72-122 + NR |
| Dieldrin | 90.1 | 93.9 | 90.1 | 75-124 |
| 4,4'-DDE | 123.6 | 98.1 | 98.1 | 72-125 |
| Endrin | 91.8 | 89.2 | 89.2 | 66-116 |
| + Endosulfan II | 55.8 | 55.2 | 55.2~ | 73-107 + NR |
| 4,4'-DDD | 99.4 | 94.0 | 94.0 | 67-106 |
| Endosulfan sulfate | 89.2 | 84.7 | 84.7 | 62-100 |
| 4,4'-DDT | 96.2 | 90.4 | 90.4 | 69-108 |
| Methoxychlor | 87.4 | 79.5 | 79.5 | 67-107 |
| Endrin ketone | 87.2 | 87.9 | 87.2 | 72-102 |
| Endrin aldehyde | 48.5 | 62.6 | 48.5 | 43-108 |
| gamma-Chlordane | 93.7 | 101.5 | 93.7 | 69-118 |
| alpha-Chlordane | 87.4 | 92.2 | 87.4 | 71-118 |
| Hexachlorobutadiene | 46.0 | 46.8 | 46.0 | 19-100 |
| Hexachlorobenzene | 76.3 | 74.4 | 74.4 | 45-100 |

US

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 5352442 | 10.6 |
| Hexabromobiphenyl | 6506091 | 7455456 | 14.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16498690 | 1.7 |
| Hexabromobiphenyl | 8472750 | 9917993 | 17.1 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | |
|-----------------------------|-------|-------|--------|---------|----------|--------------------------|-------|--------|---------|----------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | |
| Toxaphene | 1 | 6.441 | 0.017 | 16657 | 4.701 | 1 | 6.597 | -0.010 | 146411 | 27.156 | |
| Toxaphene | 2 | 6.482 | 0.007 | 2666218 | 982.371 | 2 | 6.944 | 0.013 | 22517 | 2.799 | |
| Toxaphene | 3 | 6.650 | -0.023 | 35577 | 14.221 | 3 | 7.156 | -0.009 | 3292573 | 389.257 | |
| Toxaphene | 4 | 6.921 | 0.044 | 6170249 | 2293.270 | 4 | 7.627 | 0.001 | 9736818 | 1448.195 | |
| Toxaphene | 5 | 7.070 | 0.014 | 18283 | 4.458 | 5 | --- | --- | --- | 0.000 | |
| Toxaphene | 6 | 7.387 | 0.012 | 3034299 | 1055.657 | NS | --- | --- | --- | --- | |
| Total STX-CLPAve (6 peaks): | | | | | 725.780 | Total CLP2Ave (4 peaks): | | | | 466.852 | RPD = 43* |
| Corrected Ave (5 peaks): | | | | | 412.282 | Corrected Ave (3 peaks): | | | | 139.737 | RPD = 99* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

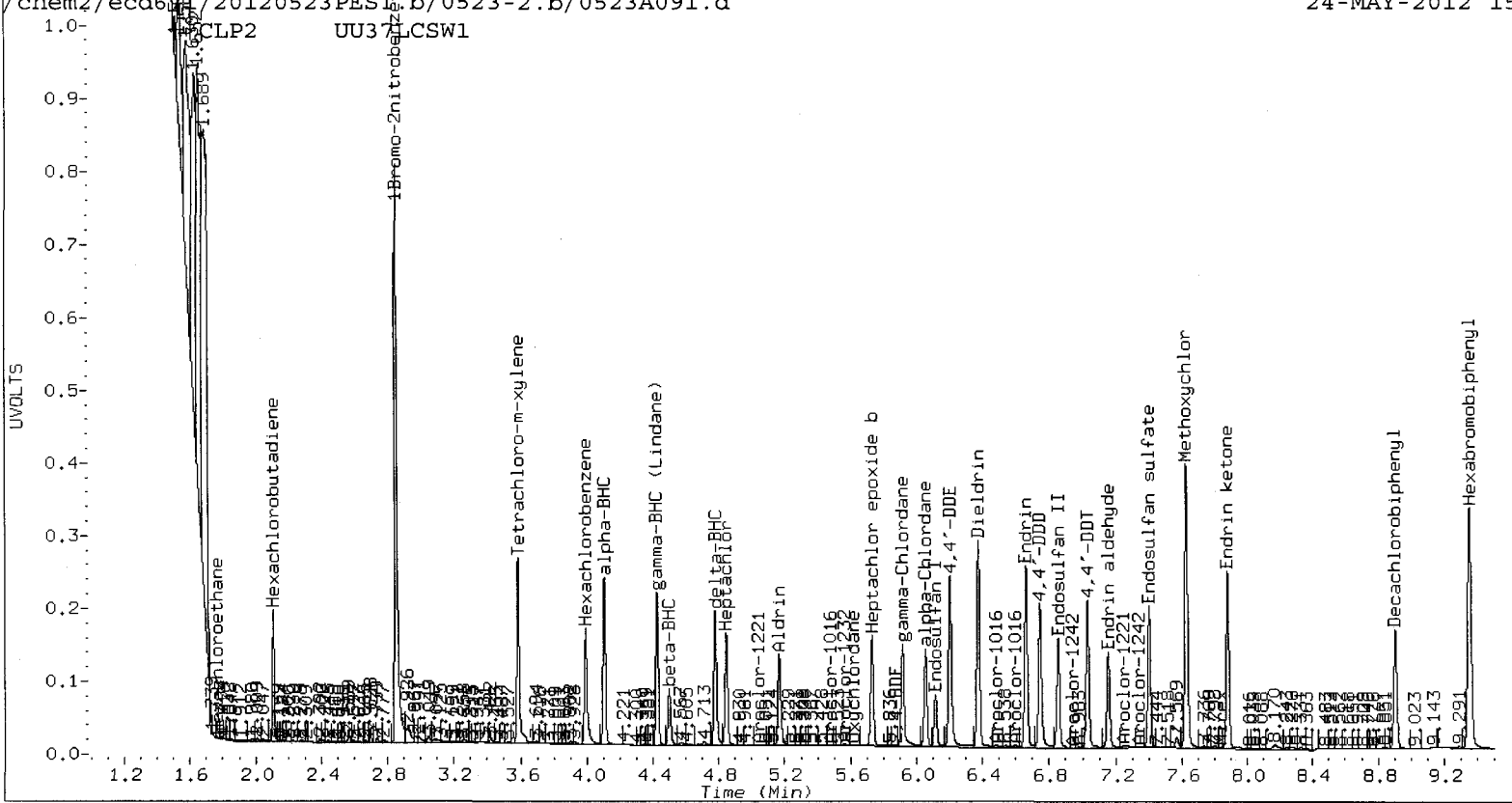
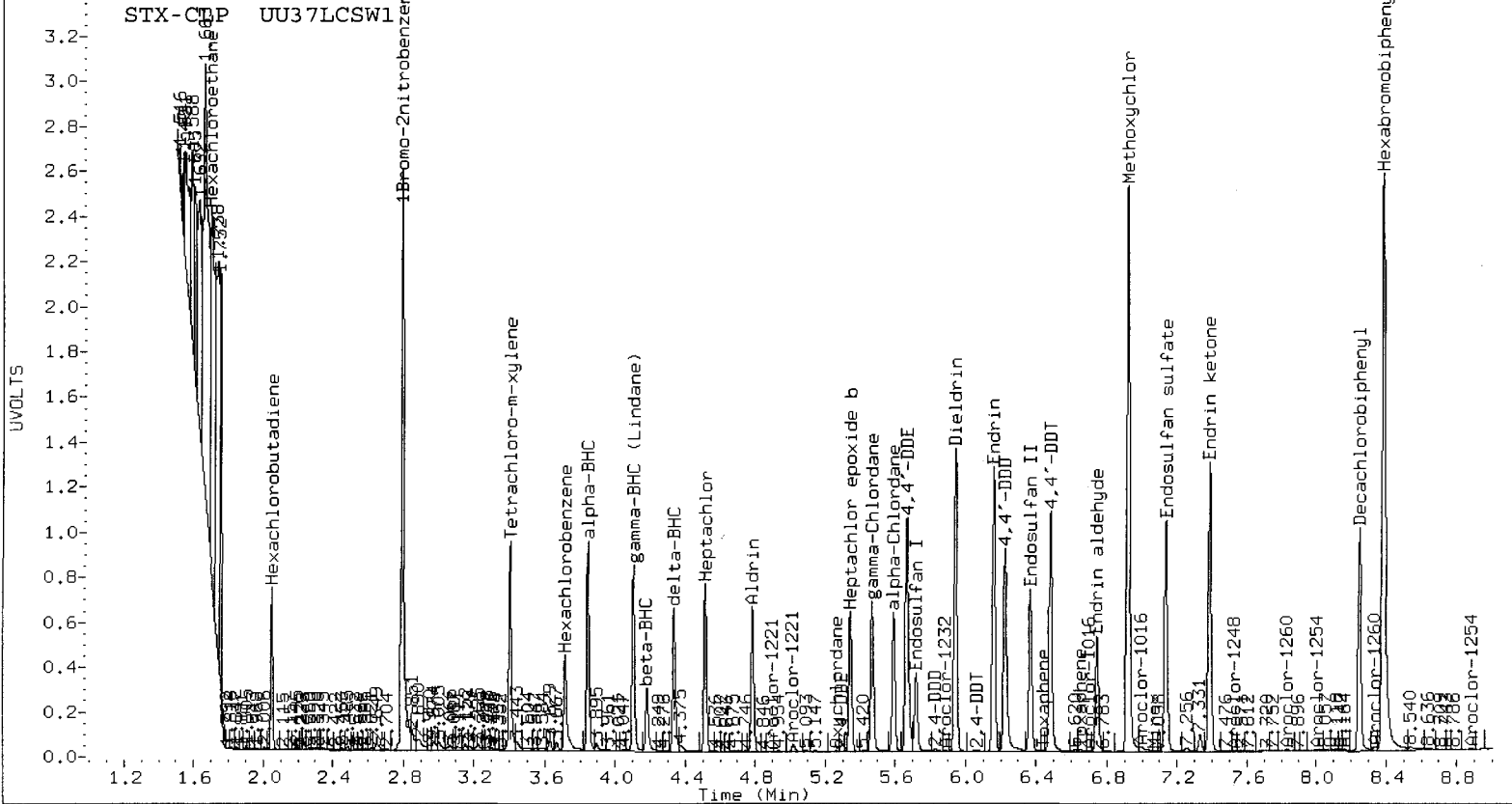
| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A092.d ARI ID: UU37LCSDW1
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A092.d Client ID: UU37LCSDW1
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 16:00
 Compound Sublist: wpest Report Date: 05/25/2012 16:00
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag |
|----------------------|-----------------------|--------------------------|-------------------|--------|----------------------|
| RT Shift Response | RT Shift Response | on col | on col | | |
| 2.794 -0.002 5188717 | 2.852 -0.002 16262258 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.845 -0.001 1640710 | 4.105 -0.003 4316257 | 15.8482 | 15.5868 | 1.7 | alpha-BHC |
| 4.181 -0.001 634282 | 4.499 -0.003 1676614 | 16.4259 | 15.7392 | 4.3 | beta-BHC |
| 4.335 -0.002 1352786 | 4.779 -0.003 3984541 | 17.9104 | 20.1585 | 11.8 | delta-BHC |
| 4.105 -0.001 1561155 | 4.426 -0.003 4086454 | 17.9765 | 17.2952 | 3.9 | gamma-BHC (Lindane) |
| 4.516 -0.001 1432003 | 4.847 -0.003 3338769 | 14.9375 | 14.0412 | 6.2 | Heptachlor |
| 4.786 -0.001 1286183 | 5.168 -0.003 3066011 | 14.6269 | 14.8764 | 1.7 | Aldrin |
| 5.345 -0.001 1388093 | 5.730 -0.002 3600946 | 17.7272 | 18.0098 | 1.6 | Heptachlor epoxide b |
| 5.721 -0.001 857366 | 6.116 -0.002 1726572 | 8.1119 | 9.9211 | 20.1 | Endosulfan I |
| 5.946 -0.001 2938978 | 6.375 -0.002 6618415 | 34.9249 | 36.7876 | 5.2 | Dieldrin |
| 5.667 -0.003 2559578 | 6.205 -0.003 6046847 | 48.0800 | 38.0040 | 23.4 | 4,4'-DDE |
| 6.162 -0.001 2776455 | 6.662 -0.002 5855509 | 35.5019 | 34.8331 | 1.9 | Endrin |
| 6.370 -0.001 1627898 | 6.856 -0.002 3686564 | 21.3882 | 21.6450 | 1.2 | Endosulfan II |
| 6.226 -0.002 2366251 | 6.746 -0.003 5171427 | 38.4276 | 36.8142 | 4.3 | 4,4'-DDD |
| 7.137 -0.001 2402854 | 7.403 -0.001 4301075 | 35.9085 | 32.8678 | 8.8 | Endosulfan sulfate |
| 6.483 -0.001 2536942 | 7.032 -0.002 4870857 | 37.5149 | 35.2134 | 6.3 | 4,4'-DDT |
| 6.922 -0.001 5896307 | 7.627 -0.002 9458484 | 171.1384 | 156.5354 | 8.9 | Methoxychlor |
| 7.387 -0.001 2878010 | 7.880 -0.001 5843991 | 33.9261 | 34.6884 | 2.2 | Endrin ketone |
| 6.747 -0.002 1179918 | 7.157 -0.001 3219717 | 19.2231 | 24.8201 | 25.4 | Endrin aldehyde |
| 5.469 -0.001 1508192 | 5.917 -0.001 3579862 | 17.7634 | 19.2963 | 8.3 | gamma-Chlordane |
| 5.593 0.000 1301789 | 6.055 -0.002 3177277 | 16.1113 | 17.9956 | 11.0 | alpha-Chlordane |
| 2.051 -0.002 937131 | 2.110 -0.002 2541664 | 8.1906 | 8.4548 | 3.2 | Hexachlorobutadiene |
| 3.715 -0.001 985208 | 3.992 -0.002 3492006 | 13.8050 | 13.8094 | 0.0 | Hexachlorobenzene |
| 5.264 0.012 6703 | 5.617 -0.027 47776 | 0.0996 0.3006 | 0.3006 | 100.5* | Oxychlorane |
| 5.293 -0.048 5287 | 5.875 -0.035 81149 | 0.1115 | 0.7842 | 150.2* | 2,4-DDE |
| ---- | 5.997 -0.009 69394 | 0.0000 | 0.3476 | --- | trans-Nonachlor |
| 5.828 -0.002 40749 | ---- | 0.9329 | 0.0000 | NS --- | 2,4-DDD |
| 6.067 -0.002 22248 | ---- | 0.3866 | 0.0000 | --- | 2,4-DDT |
| ---- | ---- | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| 7.072 0.009 13595 | 7.837 -0.026 118694 | 0.2153 0.9812 | 0.9812 | 128.0* | Mirex |
| 8.387 -0.007 7272835 | 9.352 -0.005 9792052 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.725 0.005 103015 | 1.766 -0.003 37289 | 0.0000 0.0000 | 0.0000 | NA --- | Hexachloroethane |
| 3.405 -0.002 1641049 | 3.585 -0.003 4894253 | 21.3744 | 24.2523 | 12.6 | Tetrachloro-m-xylene |
| 8.250 -0.001 2364899 | 8.907 -0.001 4247536 | 28.9455 | 31.3328 | 7.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01486

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|-------|-------------|
| Tetrachloro-m-xylene | 53.4 | 60.6 | 53.4 | 52-100 |
| Decachlorobiphenyl | 72.4 | 78.3 | 72.4 | 54-100 |
| alpha-BHC | 79.2 | 77.9 | 77.9 | 73-107 |
| beta-BHC | 82.1 | 78.7 | 78.7 | 68-116 |
| delta-BHC | 89.6 | 100.8 | 89.6 | 42-114 |
| gamma-BHC (Lindane) | 89.9 | 86.5 | 86.5 | 75-111 |
| Heptachlor | 74.7 | 70.2 | 70.2 | 60-100 |
| Aldrin | 73.1 | 74.4 | 73.1 | 54-101 |
| Heptachlor epoxide b | 88.6 | 90.0 | 88.6 | 72-116 |
| + Endosulfan I | 40.6 | 49.6 | 40.6~ | 72-122 + NR |
| Dieldrin | 87.3 | 92.0 | 87.3 | 75-124 |
| 4,4'-DDE | 120.2 | 95.0 | 95.0 | 72-125 |
| Endrin | 88.8 | 87.1 | 87.1 | 66-116 |
| + Endosulfan II | 53.5 | 54.1 | 53.5~ | 73-107 + NR |
| 4,4'-DDD | 96.1 | 92.0 | 92.0 | 67-106 |
| Endosulfan sulfate | 89.8 | 82.2 | 82.2 | 62-100 |
| 4,4'-DDT | 93.8 | 88.0 | 88.0 | 69-108 |
| Methoxychlor | 85.6 | 78.3 | 78.3 | 67-107 |
| Endrin ketone | 84.8 | 86.7 | 84.8 | 72-102 |
| Endrin aldehyde | 48.1 | 62.1 | 48.1 | 43-108 |
| gamma-Chlordane | 88.8 | 96.5 | 88.8 | 69-118 |
| alpha-Chlordane | 80.6 | 90.0 | 80.6 | 71-118 |
| Hexachlorobutadiene | 41.0 | 42.3 | 41.0 | 19-100 |
| Hexachlorobenzene | 69.0 | 69.0 | 69.0 | 45-100 |

LCSD

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 5188717 | 7.2 |
| Hexabromobiphenyl | 6506091 | 7272835 | 11.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16262258 | 0.2 |
| Hexabromobiphenyl | 8472750 | 9792052 | 15.6 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | |
|-----------------------------|-------|-------|--------|---------|----------|--------------------------|-------|--------|---------|----------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | |
| Toxaphene | 1 | 6.442 | 0.018 | 20957 | 6.063 | 1 | 6.598 | -0.008 | 189158 | 35.535 | |
| Toxaphene | 2 | 6.483 | 0.008 | 2536942 | 958.211 | 2 | 6.945 | 0.014 | 26545 | 3.342 | |
| Toxaphene | 3 | 6.650 | -0.023 | 33602 | 13.769 | 3 | 7.157 | -0.009 | 3219717 | 385.539 | |
| Toxaphene | 4 | 6.922 | 0.045 | 5896307 | 2246.483 | 4 | 7.627 | 0.002 | 9458484 | 1424.891 | |
| Toxaphene | 5 | 7.072 | 0.016 | 13595 | 3.398 | 5 | --- | --- | --- | 0.000 | |
| Toxaphene | 6 | 7.387 | 0.012 | 2878010 | 1026.425 | NS | --- | --- | --- | --- | |
| Total STX-CLPAve (6 peaks): | | | | | 709.058 | Total CLP2Ave (4 peaks): | | | | 462.327 | RPD = 42* |
| Corrected Ave (5 peaks): | | | | | 401.573 | Corrected Ave (3 peaks): | | | | 141.472 | RPD = 96* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

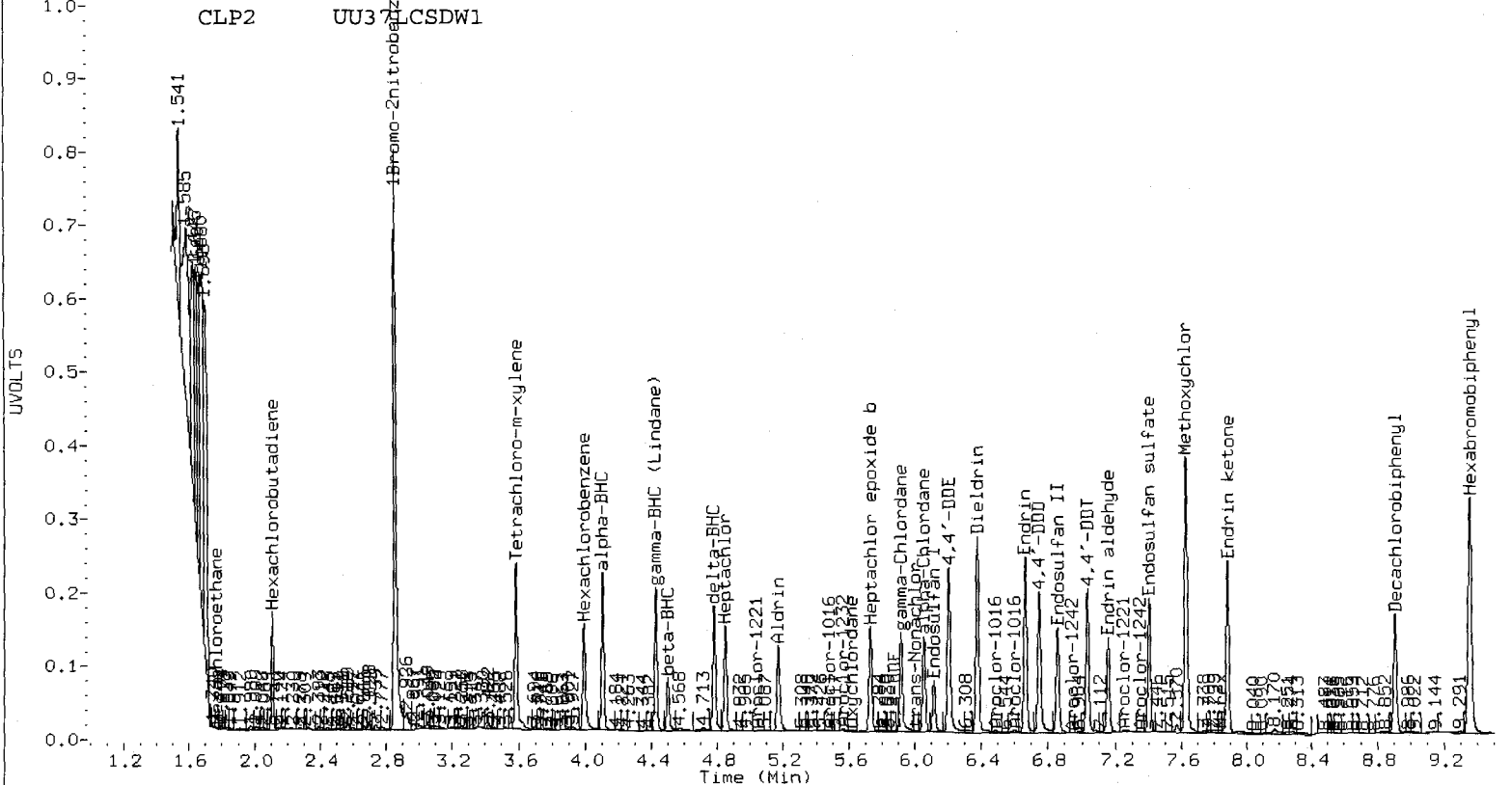
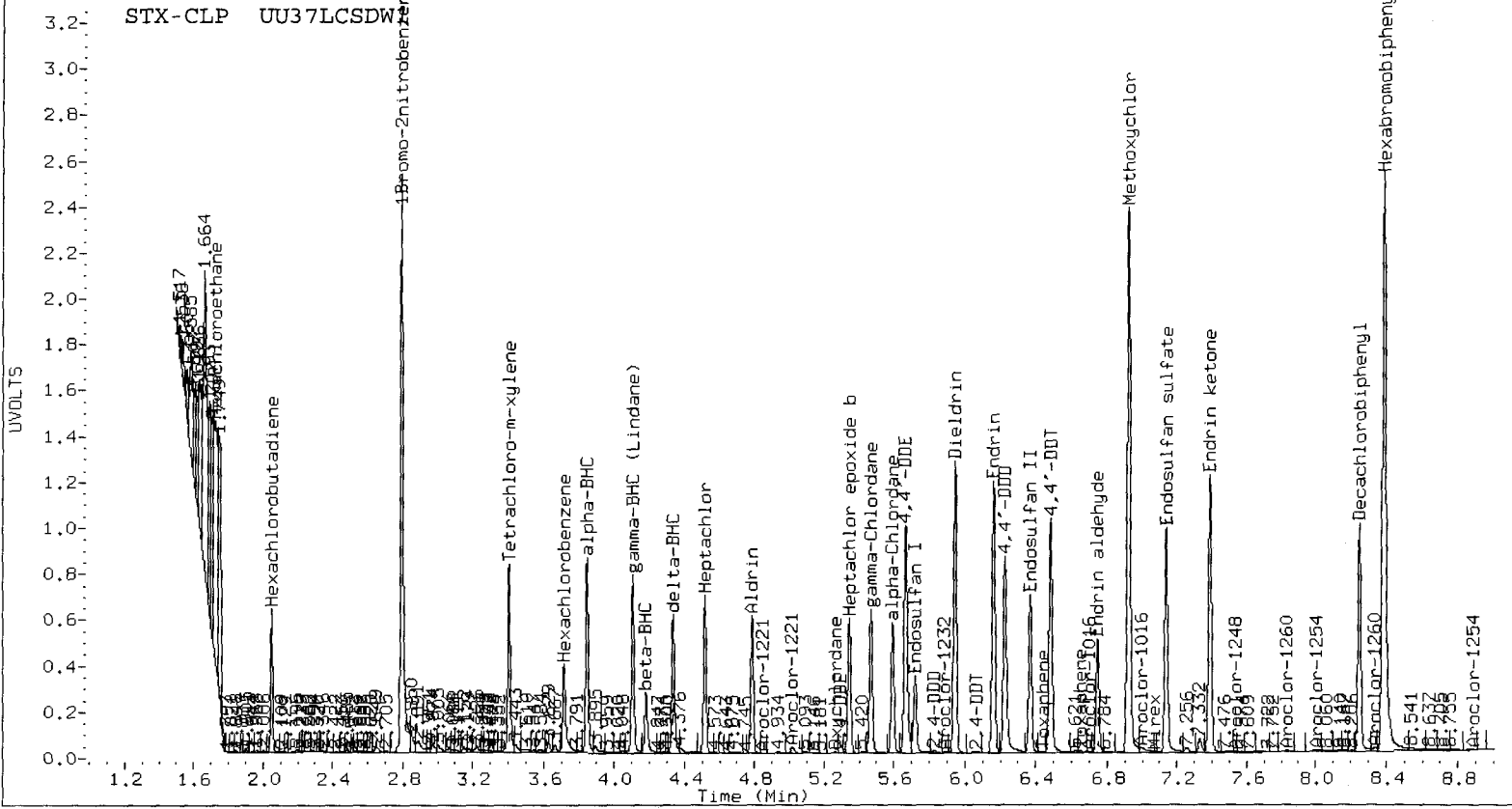
| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A100.d ARI ID: UU62J
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A100.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 18:23
 Compound Sublist: wpest Report Date: 05/25/2012 08:43
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.794 | -0.002 | 5273774 | 2.852 | -0.002 | 15899944 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 3.831 | -0.016 | 25204 | 4.091 | -0.017 | 84646 | 0.2395 | 0.3126 | 26.5 | alpha-BHC | |
| 4.196 | 0.014 | 42853 | 4.465 | -0.037 | 23283 | 1.0919 | 0.2236 | 132.0* | beta-BHC | |
| 4.329 | -0.008 | 25356 | 4.780 | -0.003 | 14582 | 0.3303 | 0.0755 | 125.6* | delta-BHC | |
| 4.102 | -0.004 | 42114 | 4.425 | -0.004 | 45222 | 0.4771 | 0.1958 | 83.6* | gamma-BHC (Lindane) | |
| 4.514 | -0.004 | 34478 | 4.832 | -0.017 | 75542 | 0.3539 | 0.3249 | 8.5 | Heptachlor | |
| 4.782 | -0.005 | 3620 | 5.188 | 0.018 | 3029410 | 0.0405 | 15.0338 | 198.9* | Aldrin | |
| 5.347 | 0.002 | 3818 | 5.723 | -0.010 | 73369 | 0.0480 | 0.3753 | 154.7* | Heptachlor epoxide b | |
| 5.727 | 0.005 | 25438 | ---- | ---- | ---- | 0.2368 | 0.0000 | --- | Endosulfan I | |
| 5.945 | -0.001 | 13714 | 6.374 | -0.003 | 713247 | 0.1603 | 4.0548 | 184.8* | Dieldrin | |
| 5.666 | -0.003 | 5241 | 6.209 | 0.001 | 414518 | 0.0969 | 2.6646 | 186.0* | 4,4'-DDE | |
| 6.166 | 0.002 | 62013 | 6.660 | -0.004 | 172124 | 0.7990 | 1.0391 | 26.1 | Endrin | |
| 6.369 | -0.001 | 109995 | 6.853 | -0.004 | 107342 | 1.4562 | 0.6396 | 77.9* | Endosulfan II | |
| 6.225 | -0.002 | 62520 | 6.742 | -0.007 | 213372 | 1.0231 | 1.5414 | 40.4* | 4,4'-DDD | |
| 7.136 | -0.002 | 16149 | 7.401 | -0.003 | 20683 | 0.2432 | 0.1604 | 41.0* | Endosulfan sulfate | |
| 6.481 | -0.003 | 9180 | 7.030 | -0.004 | 194066 | 0.1368 | 1.4237 | 164.9* | 4,4'-DDT | |
| 6.922 | -0.001 | 31966 | 7.627 | -0.002 | 68095 | 0.9349 | 1.1436 | 20.1 | Methoxychlor | |
| 7.405 | 0.017 | 25695 | 7.879 | -0.002 | 103818 | 0.3052 | 0.6254 | 68.8* | Endrin ketone | |
| 6.704 | -0.044 | 58085 | 7.143 | -0.015 | 282894 | 0.9535 | 2.2130 | 79.5* | Endrin aldehyde | |
| 5.471 | 0.001 | 51402 | 5.940 | 0.022 | 350424 | 0.5957 | 1.9319 | 105.7* | gamma-Chlordane | |
| 5.593 | 0.000 | 7002 | 6.052 | -0.005 | 98806 | 0.0853 | 0.5724 | 148.1* | alpha-Chlordane | |
| 2.049 | -0.004 | 4756 | 2.104 | -0.009 | 124600 | 0.0409 | 0.4239 | 164.8* | Hexachlorobutadiene | |
| 3.714 | -0.003 | 69667 | 3.992 | -0.003 | 55666 | 0.9605 | 0.2252 | 124.0* | Hexachlorobenzene | |
| 5.247 | -0.004 | 3757 | 5.616 | -0.028 | 66435 | 0.0563 | 0.4275 | 153.5* | Oxychlorane | |
| 5.292 | -0.049 | 6610 | 5.872 | -0.037 | 73273 | 0.1405 | 0.7242 | 135.0* | 2,4-DDE | |
| 5.555 | -0.026 | 5568 | ---- | ---- | ---- | 0.0652 | 0.0000 | --- | trans-Nonachlor | |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4-DDD | |
| 6.049 | -0.019 | 183997 | ---- | ---- | ---- | 3.2219 | 0.0000 | --- | 2,4-DDT | |
| ---- | ---- | ---- | 6.710 | -0.024 | 84890 | 0.0000 | 0.4280 | --- | cis-Nonachlor | |
| 7.094 | 0.031 | 21992 | 7.855 | -0.008 | 63414 | 0.3510 | 0.5320 | 41.0* | Mirex | |
| 8.387 | -0.007 | 7217767 | 9.351 | -0.006 | 9649398 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 1.721 | 0.002 | 232724 | 1.766 | -0.004 | 26800 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.404 | -0.002 | 2656568 | 3.586 | -0.002 | 5036667 | 34.0433 | 25.5267 | 28.6 | Tetrachloro-m-xylene | |
| 8.249 | -0.001 | 1970212 | 8.907 | -0.002 | 3448861 | 24.2987 | 25.8173 | 6.1 | Decachlorobiphenyl | |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01491

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 85.1 | 63.8 | 63.8~ | 130- 0 |
| Decachlorobiphenyl | 60.7 | 64.5 | 60.7~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5273774 | 8.9 |
| Hexabromobiphenyl | 6506091 | 7217767 | 10.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15899944 | -2.0 |
| Hexabromobiphenyl | 8472750 | 9649398 | 13.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|-----------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Toxaphene | 1 | 6.434 | 0.010 | 29375 | 8.563 | 1 | 6.585 | -0.021 | 138834 | 26.467 |
| Toxaphene | 2 | 6.481 | 0.006 | 9180 | 3.494 | 2 | 6.945 | 0.014 | 26164 | 3.343 |
| Toxaphene | 3 | 6.704 | 0.031 | 58085 | 23.983 | 3 | 7.143 | -0.023 | 282894 | 34.375 |
| Toxaphene | 4 | 6.922 | 0.044 | 31966 | 12.272 | 4 | 7.627 | 0.001 | 68095 | 10.410 |
| Toxaphene | 5 | 7.094 | 0.039 | 21992 | 5.539 | 5 | 7.674 | 0.004 | 41012 | 4.605 |
| Toxaphene | 6 | 7.405 | 0.030 | 25695 | 9.234 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 10.514 | | | | | Total CLP2Ave (5 peaks): 15.840 | | | | | RPD = 40* |
| Corrected Ave (5 peaks): 7.821 | | | | | Corrected Ave (4 peaks): 11.206 | | | | | RPD = 36 |

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1016 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1016 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1016 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1016 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1016 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1221 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1221 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1221 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1221 | 4 | --- | 0.000 | 4 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1232 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1232 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1232 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1232 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1232 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|----|-----|-------|
| Aroclor-1242 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1242 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1242 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1242 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1242 | 5 | --- | 0.000 | 5 | --- | 0.000 |
| Aroclor-1242 | 6 | --- | 0.000 | NS | --- | --- |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A101.d ARI ID: UU62K
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A101.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 18:40
 Compound Sublist: wpest Report Date: 05/25/2012 08:43
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.794 | -0.002 | 5100774 | 2.852 | -0.002 | 16009521 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.833 | -0.014 | 26114 | 4.102 | -0.006 | 126859 | 0.2566 | 0.4653 | 57.8* | alpha-BHC |
| 4.200 | 0.017 | 43077 | 4.467 | -0.035 | 42354 | 1.1348 | 0.4039 | 95.0* | beta-BHC |
| 4.326 | -0.011 | 13275 | 4.815 | 0.032 | 89621 | 0.1788 | 0.4606 | 88.1* | delta-BHC |
| 4.104 | -0.002 | 41465 | 4.425 | -0.003 | 104937 | 0.4857 | 0.4511 | 7.4 | gamma-BHC (Lindane) |
| 4.513 | -0.005 | 33409 | 4.841 | -0.008 | 84839 | 0.3545 | 0.3624 | 2.2 | Heptachlor |
| 4.775 | -0.012 | 2631 | 5.148 | -0.023 | 13551 | 0.0304 | 0.0668 | 74.8* | Aldrin |
| 5.344 | -0.002 | 2492 | 5.686 | -0.046 | 76995 | 0.0324 | 0.3912 | 169.4* | Heptachlor epoxide b |
| 5.727 | 0.006 | 11275 | 6.132 | 0.015 | 141614 | 0.1085 | 0.8266 | 153.6* | Endosulfan I |
| 5.945 | -0.001 | 9956 | 6.374 | -0.003 | 111608 | 0.1204 | 0.6302 | 135.9* | Dieldrin |
| 5.665 | -0.005 | 12342 | 6.209 | 0.001 | 128559 | 0.2358 | 0.8207 | 110.7* | 4,4'-DDE |
| 6.174 | 0.011 | 20890 | 6.660 | -0.004 | 121493 | 0.2683 | 0.7262 | 92.1* | Endrin |
| 6.370 | -0.001 | 17323 | 6.852 | -0.005 | 67638 | 0.2286 | 0.3990 | 54.3* | Endosulfan II |
| 6.232 | 0.004 | 28553 | 6.757 | 0.008 | 185175 | 0.4657 | 1.3246 | 95.9* | 4,4'-DDD |
| 7.137 | -0.001 | 5089 | 7.400 | -0.004 | 11348 | 0.0764 | 0.0871 | 13.2 | Endosulfan sulfate |
| 6.504 | 0.021 | 7941 | 7.028 | -0.006 | 119005 | 0.1180 | 0.8645 | 152.0* | 4,4'-DDT |
| 6.921 | -0.002 | 9902 | 7.627 | -0.002 | 77599 | 0.2887 | 1.2904 | 126.9* | Methoxychlor |
| 7.404 | 0.016 | 41147 | 7.879 | -0.002 | 53360 | 0.4872 | 0.3183 | 41.9* | Endrin ketone |
| 6.787 | 0.038 | 36458 | 7.142 | -0.016 | 723083 | 0.5966 | 5.6009 | 161.5* | Endrin aldehyde |
| 5.469 | 0.000 | 59972 | 5.945 | 0.027 | 338959 | 0.7185 | 1.8559 | 88.4* | gamma-Chlordane |
| 5.558 | -0.036 | 7025 | 6.052 | -0.005 | 79202 | 0.0884 | 0.4557 | 135.0* | alpha-Chlordane |
| 2.064 | 0.011 | 12329 | 2.103 | -0.009 | 90220 | 0.1096 | 0.3049 | 94.2* | Hexachlorobutadiene |
| 3.715 | -0.002 | 62662 | 3.994 | -0.001 | 75662 | 0.8932 | 0.3039 | 98.4* | Hexachlorobenzene |
| 5.247 | -0.005 | 2981 | 5.619 | -0.025 | 50121 | 0.0445 | 0.3203 | 151.2* | Oxychlorodane |
| ---- | | | 5.875 | -0.035 | 20281 | 0.0000 | 0.1991 | --- | 2,4-DDE |
| 5.576 | -0.005 | 11593 | 6.018 | 0.012 | 85137 | 0.1353 | 0.4286 | 104.0* | trans-Nonachlor |
| 5.844 | 0.013 | 5100 | 6.419 | 0.021 | 124701 | 0.1173 | 1.1241 | 162.2* | 2,4-DDD |
| 6.048 | -0.021 | 44215 | ---- | | | 0.7717 | 0.0000 | --- | 2,4-DDT |
| ---- | | | 6.708 | -0.026 | 63751 | 0.0000 | 0.3182 | --- | cis-Nonachlor |
| 7.099 | 0.036 | 11154 | 7.827 | -0.036 | 55464 | 0.1775 | 0.4607 | 88.8* | Mirex |
| 8.387 | -0.006 | 7241256 | 9.352 | -0.006 | 9745131 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.728 | 0.009 | 92604 | 1.767 | -0.003 | 106840 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.405 | -0.002 | 1959468 | 3.585 | -0.002 | 4637123 | 25.9617 | 23.3409 | 10.6 | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 1948638 | 8.906 | -0.002 | 3342980 | 23.9547 | 24.7789 | 3.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01496

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 64.9 | 58.4 | 58.4~ | 130- 0 |
| Decachlorobiphenyl | 59.9 | 61.9 | 59.9~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5100774 | 5.4 |
| Hexabromobiphenyl | 6506091 | 7241256 | 11.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16009521 | -1.3 |
| Hexabromobiphenyl | 8472750 | 9745131 | 15.0 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|-----------|--|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | |
| Toxaphene | 1 | 6.434 | 0.010 | 14432 | 4.194 | 1 | 6.558 | -0.049 | 148021 | 27.941 | |
| Toxaphene | 2 | 6.504 | 0.029 | 7941 | 3.013 | 2 | 6.948 | 0.017 | 20903 | 2.644 | |
| Toxaphene | 3 | 6.704 | 0.030 | 287156 | 118.181 | 3 | 7.142 | -0.023 | 723083 | 87.001 | |
| Toxaphene | 4 | 6.869 | -0.008 | 3119 | 1.194 | 4 | 7.627 | 0.001 | 77599 | 11.746 | |
| Toxaphene | 5 | 7.099 | 0.043 | 11154 | 2.800 | 5 | --- | --- | --- | 0.000 | |
| Toxaphene | 6 | 7.404 | 0.029 | 41147 | 14.739 | NS | --- | --- | --- | --- | |
| Total STX-CLPAve (6 peaks): 24.020 | | | | | Total CLP2Ave (4 peaks): 32.333 | | | | | RPD = 30 | |
| Corrected Ave (5 peaks): 5.188 | | | | | Corrected Ave (3 peaks): 14.111 | | | | | RPD = 92* | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A105.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A105.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 24-MAY-2012 19:52
 Compound Sublist: INDA Report Date: 05/25/2012 15:53
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|------|----------------------|
| 2.797 | 0.001 5328098 | 2.854 0.000 18001293 | 2.854 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.847 | 0.000 2149760 | 4.107 -0.001 6189690 | 4.107 | 20.2221 | 20.1927 | 0.1 | alpha-BHC |
| 4.184 | 0.002 766336 | 4.502 0.000 2236792 | 4.502 | 19.3265 | 18.9694 | 1.9 | beta-BHC |
| 4.340 | 0.003 1568595 | 4.783 0.000 4442283 | 4.783 | 20.2244 | 20.3032 | 0.4 | delta-BHC |
| 4.106 | 0.000 1779194 | 4.427 -0.002 5146642 | 4.427 | 19.9513 | 19.6780 | 1.4 | gamma-BHC (Lindane) |
| 4.517 | 0.000 1956129 | 4.848 -0.002 5011390 | 4.848 | 19.8710 | 19.0394 | 4.3 | Heptachlor |
| 4.787 | 0.000 1811030 | 5.169 -0.001 4425399 | 5.169 | 20.0569 | 19.3979 | 3.3 | Aldrin |
| 5.346 | 0.000 1549856 | 5.731 -0.001 4257910 | 5.731 | 19.2753 | 19.2383 | 0.2 | Heptachlor epoxide b |
| 5.722 | 0.000 2052182 | 6.116 -0.001 3682404 | 6.116 | 18.9087 | 19.1154 | 1.1 | Endosulfan I |
| 5.946 | 0.000 3388818 | 6.376 -0.001 7704784 | 6.376 | 39.2171 | 38.6888 | 1.4 | Dieldrin |
| 5.673 | 0.003 2366908 | 6.209 0.001 6904260 | 6.209 | 43.2977 | 39.2008 | 9.9 | 4,4'-DDE |
| 6.163 | 0.000 3034261 | 6.663 -0.002 6349912 | 6.663 | 39.5951 | 36.2711 | 8.8 | Endrin |
| 6.370 | 0.000 2921582 | 6.856 -0.001 6379120 | 6.856 | 39.1735 | 35.9635 | 8.5 | Endosulfan II |
| 6.230 | 0.002 2507278 | 6.748 0.000 5461725 | 6.748 | 41.5539 | 37.3336 | 10.7 | 4,4'-DDD |
| 7.138 | 0.000 2557768 | 7.403 -0.001 5008179 | 7.403 | 39.0084 | 36.7484 | 6.0 | Endosulfan sulfate |
| 6.484 | 0.001 2730182 | 7.033 -0.001 5476364 | 7.033 | 41.2014 | 38.0154 | 8.0 | 4,4'-DDT |
| 6.924 | 0.001 6410202 | 7.628 -0.001 10438383 | 7.628 | 189.8744 | 165.8783 | 13.5 | Methoxychlor |
| 7.388 | 0.000 3155087 | 7.880 -0.001 6476398 | 7.880 | 37.9560 | 36.9125 | 2.8 | Endrin ketone |
| 6.748 | 0.000 2323168 | 7.157 -0.001 4849188 | 7.157 | 38.6260 | 35.8939 | 7.3 | Endrin aldehyde |
| 5.470 | 0.000 1699326 | 5.917 -0.001 4048559 | 5.917 | 19.4910 | 19.7145 | 1.1 | gamma-Chlordane |
| 5.594 | 0.000 1510823 | 6.056 -0.002 3768701 | 6.056 | 18.2092 | 19.2832 | 5.7 | alpha-Chlordane |
| 2.053 | -0.001 2255027 | 2.111 -0.001 6454802 | 2.111 | 19.1936 | 19.3975 | 1.1 | Hexachlorobutadiene |
| 3.719 | 0.002 1376749 | 3.995 0.001 5401740 | 3.995 | 18.7868 | 19.2979 | 2.7 | Hexachlorobenzene |
| 8.390 | -0.003 7126502 | 9.353 -0.004 10197850 | 9.353 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 3001483 | 3.587 0.000 8743234 | 3.587 | 38.0711 | 39.1395 | 2.8 | Tetrachloro-m-xylene |
| 8.250 | -0.001 2959163 | 8.907 -0.001 5219109 | 8.907 | 36.9628 | 36.9678 | 0.0 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 95.2 | 97.8 | 95.2~ | 115- 0 |
| Decachlorobiphenyl | 92.4 | 92.4 | 92.4~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5328098 | 10.0 |
| Hexabromobiphenyl | 6506091 | 7126502 | 9.5 |

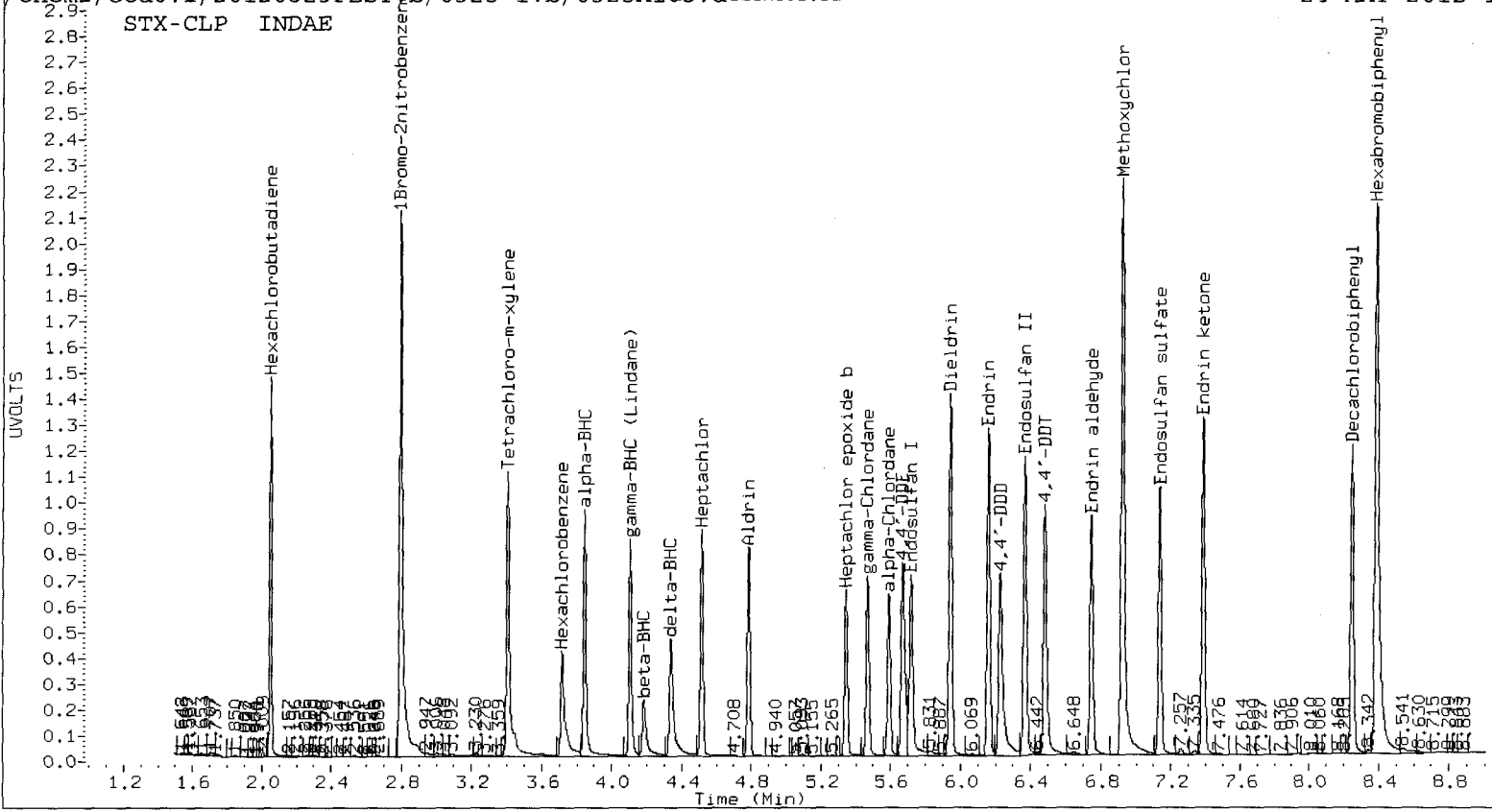
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 18001293 | 10.9 |
| Hexabromobiphenyl | 8472750 | 10197850 | 20.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012

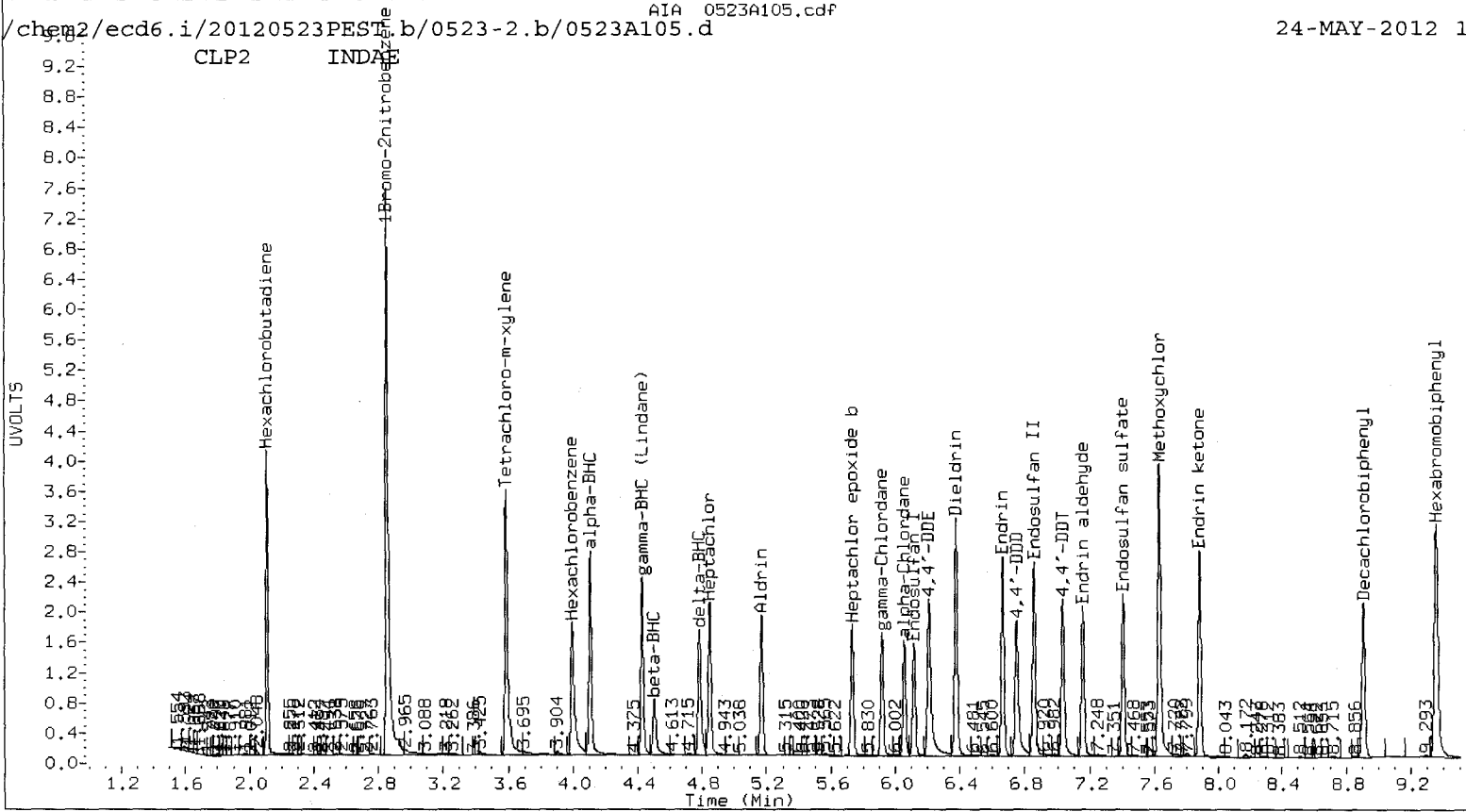
<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |

STX-CLP INDAE



CLP2 INDAE



GC Analyst Notes / Corrective Action Log

ARI Project ID: uu52 Client ID: Anchor

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) **423S(Pest)**
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): 12.5g/2.5mL

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 **ECD-6** ECD-7

Dates: Curve: 5/23/2012 Analysis Start: 5/23/2012

| | | | |
|-----------------------------------|----------------------|--|----------------------|
| 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 |
| Manual Integrations for ICal? | YES / NO | <i>samples diluted out</i> Manual Integrations for Samples? | 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):

- Dilutions reported w/ passing ccals 100 to 5000x

- Acid cleaned ^{test} samples had a negative affect on the instr. resulting in maint.

Additional Details on Reverse: **Yes** / No

Analyst: [Signature] Date: 5/25/2012

Reviewer: [Signature] Date: 5/28/12

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|------|---------------------------|----------|
| 101 | 25-MAY-2012 02:23 | 0523A127.d | 1 | DS - Passes | |
| 102 | 25-MAY-2012 02:41 | 0523A128.d | 1 | INDAE - Passes | |
| 103 | 25-MAY-2012 02:59 | 0523A129.d | 1 | TOXAPH 2500 - NR | |
| 104 | 25-MAY-2012 03:17 | 0523A130.d | 1 | WNDE - NR | |
| 105 | 25-MAY-2012 03:34 | 0523A131.d | 1 | UU52MBS1 | |
| 106 | 25-MAY-2012 03:52 | 0523A132.d | 1 | UU52LCSS1 | |
| 107 | 25-MAY-2012 04:10 | 0523A133.d | 1000 | UU52A | |
| 108 | 25-MAY-2012 04:28 | 0523A134.d | 1000 | UU52B | |
| 109 | 25-MAY-2012 04:46 | 0523A135.d | 5000 | UU52C | |
| 110 | 25-MAY-2012 05:03 | 0523A136.d | 5000 | UU52CMS | |
| 111 | 25-MAY-2012 05:21 | 0523A137.d | 5000 | UU52CMSD | |
| 112 | 25-MAY-2012 05:39 | 0523A138.d | 1000 | UU52D | |
| 113 | 25-MAY-2012 05:57 | 0523A139.d | 1000 | UU52E | |
| 114 | 25-MAY-2012 06:15 | 0523A140.d | 1000 | UU52F | |
| 115 | 25-MAY-2012 06:32 | 0523A141.d | 1 | TECH 200 | |
| 116 | 25-MAY-2012 06:50 | 0523A142.d | 1 | WND ICV | |
| 117 | 25-MAY-2012 07:08 | 0523A143.d | 1 | DS - Passes | |
| 118 | 25-MAY-2012 07:26 | 0523A144.d | 1 | INDAE - Passes | |
| 119 | 25-MAY-2012 07:44 | 0523A145.d | 1 | TOXAPH 2500 - NR | |
| 120 | 25-MAY-2012 08:01 | 0523A146.d | 1 | WNDE - NR | |
| 121 | 25-MAY-2012 08:19 | 0523A147.d | 100 | UU52G | |
| 122 | 25-MAY-2012 08:37 | 0523A148.d | 1000 | UU52H | |
| 123 | 25-MAY-2012 08:55 | 0523A149.d | 5000 | UU52I | |
| 124 | 25-MAY-2012 09:13 | 0523A150.d | 5000 | UU52J | |
| 125 | 25-MAY-2012 09:31 | 0523A151.d | 1000 | UU52K | |
| 126 | 25-MAY-2012 09:48 | 0523A152.d | 1 | TECH 200 | |
| 127 | 25-MAY-2012 10:06 | 0523A153.d | 1 | WND ICV | |
| 128 | 25-MAY-2012 10:24 | 0523A154.d | 1 | DS - Passes | |
| 129 | 25-MAY-2012 10:42 | 0523A155.d | 1 | INDAE - Passes | |
| 130 | 25-MAY-2012 11:00 | 0523A156.d | 2 | UU34G | |
| 131 | 25-MAY-2012 11:17 | 0523A157.d | 5 | UU57I | |
| 132 | 25-MAY-2012 11:35 | 0523A158.d | 1 | UU52MBS1 | |
| 133 | 25-MAY-2012 11:53 | 0523A159.d | 1 | UU52LCSS1 | |
| 134 | 25-MAY-2012 12:11 | 0523A160.d | 1 | UU52A | AC |

UU52 : 01595

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A128.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A128.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 02:41
 Compound Sublist: INDA Report Date: 05/29/2012 09:49
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|----------|----------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.797 | 0.000 | 4955560 | 2.854 | 0.000 | 18405466 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | 0.000 | 2070701 | 4.107 | -0.001 | 6331055 | 20.9428 | 20.2004 | 3.6 | alpha-BHC |
| 4.184 | 0.002 | 736530 | 4.502 | 0.000 | 2281111 | 19.9712 | 18.9204 | 5.4 | beta-BHC |
| 4.340 | 0.003 | 1504552 | 4.783 | 0.001 | 4485989 | 20.8569 | 20.0527 | 3.9 | delta-BHC |
| 4.106 | 0.000 | 1714835 | 4.428 | -0.001 | 5242734 | 20.6752 | 19.6052 | 5.3 | gamma-BHC (Lindane) |
| 4.517 | -0.001 | 1897137 | 4.848 | -0.001 | 5132372 | 20.7205 | 19.0709 | 8.3 | Heptachlor |
| 4.787 | 0.000 | 1752174 | 5.169 | -0.002 | 4503129 | 20.8639 | 19.3052 | 7.8 | Aldrin |
| 5.346 | 0.000 | 1505838 | 5.731 | -0.002 | 4368410 | 20.1358 | 19.3041 | 4.2 | Heptachlor epoxide b |
| 5.722 | 0.000 | 1980318 | 6.116 | -0.002 | 3762756 | 19.6182 | 19.1036 | 2.7 | Endosulfan I |
| 5.946 | 0.000 | 3272092 | 6.375 | -0.002 | 7882772 | 40.7129 | 38.7134 | 5.0 | Dieldrin |
| 5.673 | 0.004 | 2292165 | 6.209 | 0.000 | 7086862 | 45.0826 | 39.3539 | 13.6 | 4,4'-DDE |
| 6.163 | 0.000 | 2935694 | 6.662 | -0.002 | 6523690 | 39.8298 | 36.1847 | 9.6 | Endrin |
| 6.371 | 0.001 | 2806734 | 6.856 | -0.002 | 6496792 | 39.1277 | 35.5664 | 9.5 | Endosulfan II |
| 6.230 | 0.003 | 2412517 | 6.748 | 0.000 | 5569757 | 41.5708 | 36.9697 | 11.7 | 4,4'-DDD |
| 7.138 | 0.000 | 2454814 | 7.403 | -0.002 | 5102809 | 38.9246 | 36.3586 | 6.8 | Endosulfan sulfate |
| 6.485 | 0.001 | 2636542 | 7.033 | -0.001 | 5605702 | 41.3679 | 37.7865 | 9.0 | 4,4'-DDT |
| 6.924 | 0.001 | 6149844 | 7.628 | -0.001 | 10634407 | 189.3946 | 164.1002 | 14.3 | Methoxychlor |
| 7.388 | 0.000 | 3038118 | 7.880 | -0.002 | 6620510 | 37.9999 | 36.6412 | 3.6 | Endrin ketone |
| 6.749 | 0.001 | 2231605 | 7.157 | -0.001 | 4918124 | 38.5767 | 35.3501 | 8.7 | Endrin aldehyde |
| 5.470 | 0.001 | 1643081 | 5.917 | -0.001 | 4143756 | 20.2626 | 19.7350 | 2.6 | gamma-Chlordane |
| 5.594 | 0.000 | 1434687 | 6.056 | -0.001 | 3849319 | 18.5914 | 19.2632 | 3.5 | alpha-Chlordane |
| 2.053 | -0.001 | 2172979 | 2.111 | -0.001 | 6459282 | 19.8856 | 18.9847 | 4.6 | Hexachlorobutadiene |
| 3.719 | 0.002 | 1324832 | 3.995 | 0.001 | 5532507 | 19.4374 | 19.3311 | 0.5 | Hexachlorobenzene |
| 8.391 | -0.003 | 6854371 | 9.354 | -0.004 | 10501931 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 | 2896699 | 3.587 | -0.001 | 8993493 | 39.5041 | 39.3757 | 0.3 | Tetrachloro-m-xylene |
| 8.251 | 0.000 | 2830921 | 8.907 | -0.002 | 5383047 | 36.7649 | 37.0250 | 0.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 98.8 | 98.4 | 98.4~ | 115- 0 |
| Decachlorobiphenyl | 91.9 | 92.6 | 91.9~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

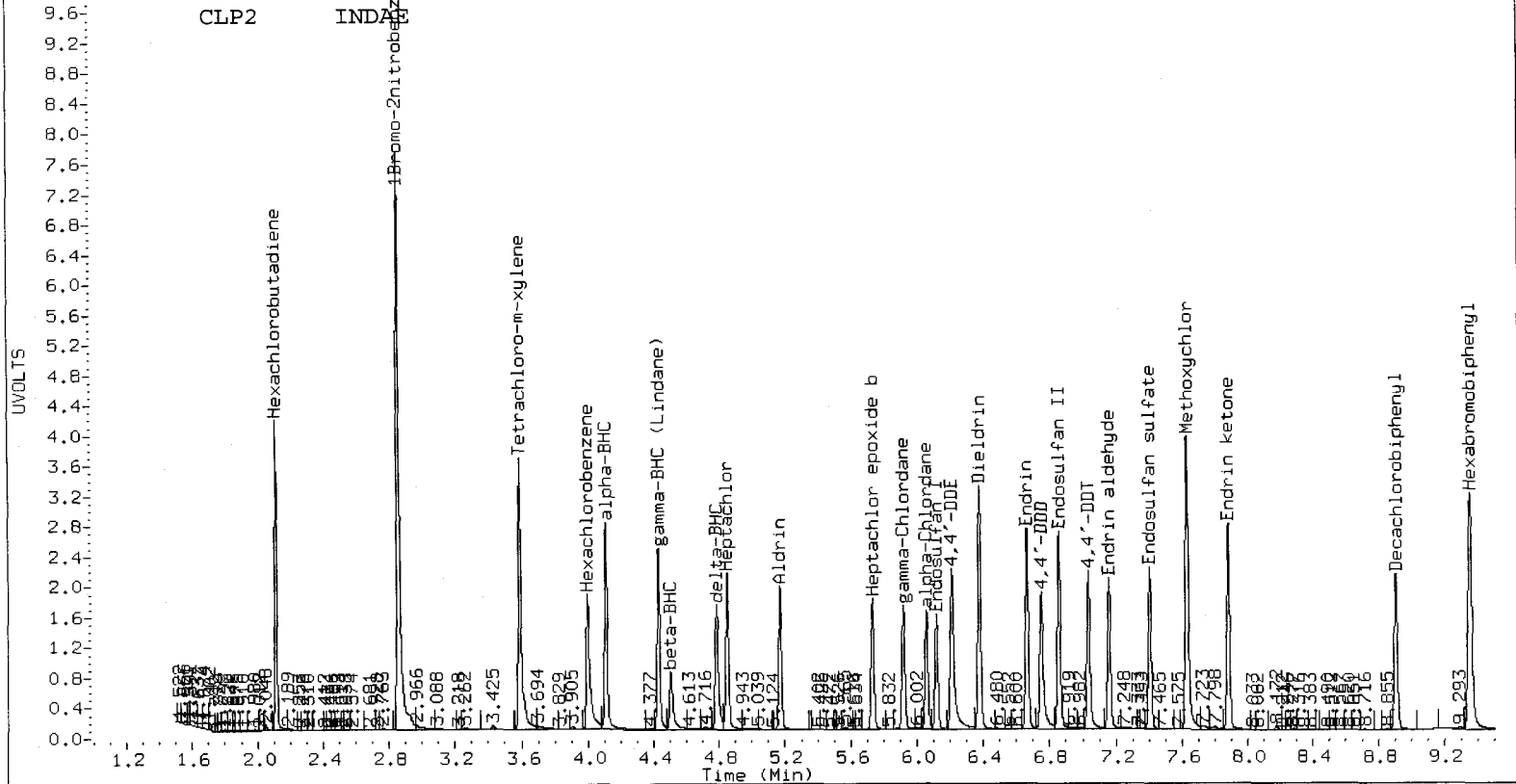
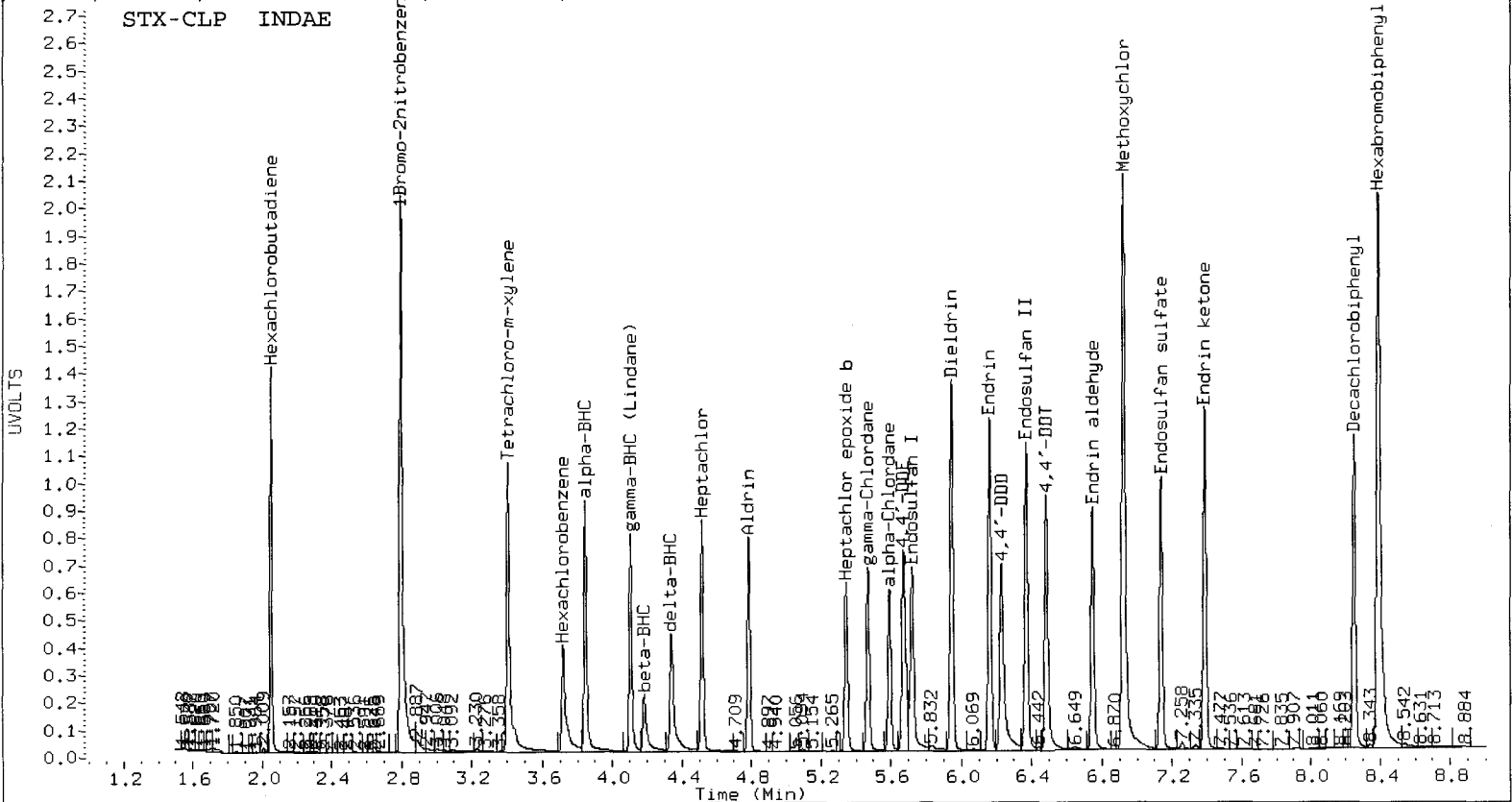
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4955560 | 2.4 |
| Hexabromobiphenyl | 6506091 | 6854371 | 5.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 18405466 | 13.4 |
| Hexabromobiphenyl | 8472750 | 10501931 | 23.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | | CLP2 Col | | | | |
|---------|-------------|----|-------|--------|--------|----------|----|-------|--------|--------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

ARS/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A131.d ARI ID: UU52MBS1
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A131.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 03:34
 Compound Sublist: wpest Report Date: 05/25/2012 08:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.794 | -0.002 | 4647725 | 2.852 | -0.002 | 15596280 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 3.832 | -0.015 | 18681 | 4.085 | -0.023 | 22686 | 0.2015 | 0.0854 | 80.9* | alpha-BHC | |
| 4.195 | 0.013 | 10645 | 4.526 | 0.023 | 25332 | 0.3078 | 0.2480 | 21.5 | beta-BHC | |
| 4.326 | -0.011 | 6510 | 4.789 | 0.007 | 21870 | 0.0962 | 0.1154 | 18.1 | delta-BHC | |
| 4.109 | 0.003 | 13807 | 4.420 | -0.009 | 39986 | 0.1775 | 0.1765 | 0.6 | gamma-BHC (Lindane) | |
| 4.511 | -0.006 | 13233 | 4.844 | -0.005 | 28460 | 0.1541 | 0.1248 | 21.0 | Heptachlor | |
| 4.747 | -0.040 | 35601 | 5.188 | 0.017 | 166678 | 0.4520 | 0.8433 | 60.4* | Aldrin | |
| 5.341 | -0.005 | 9376 | 5.723 | -0.009 | 77273 | 0.1337 | 0.4030 | 100.4* | Heptachlor epoxide b | |
| 5.737 | 0.015 | 5692 | 6.140 | 0.023 | 91583 | 0.0601 | 0.5487 | 160.5* | Endosulfan I | |
| 5.944 | -0.002 | 10869 | 6.375 | -0.002 | 57368 | 0.1442 | 0.3325 | 79.0* | Dieldrin | |
| 5.668 | -0.002 | 14283 | 6.206 | -0.002 | 79224 | 0.2995 | 0.5192 | 53.7* | 4,4'-DDE | |
| 6.116 | -0.047 | 13431 | ---- | ---- | ---- | 0.1824 | 0.0000 | --- | Endrin | |
| 6.354 | -0.016 | 18991 | 6.850 | -0.007 | 214237 | 0.2650 | 1.2706 | 131.0* | Endosulfan II | |
| 6.224 | -0.003 | 3736 | ---- | ---- | ---- | 0.0644 | 0.0000 | --- | 4,4'-DDD | |
| 7.135 | -0.002 | 13264 | 7.396 | -0.008 | 12124 | 0.2105 | 0.0936 | 76.9* | Endosulfan sulfate | |
| 6.472 | -0.011 | 25405 | 7.030 | -0.004 | 164022 | 0.3989 | 1.1978 | 100.1* | 4,4'-DDT | |
| 6.918 | -0.005 | 23233 | 7.620 | -0.009 | 33965 | 0.7161 | 0.5678 | 23.1 | Methoxychlor | |
| 7.407 | 0.019 | 28201 | 7.912 | 0.030 | 44972 | 0.3530 | 0.2696 | 26.8 | Endrin ketone | |
| 6.705 | -0.044 | 32905 | 7.142 | -0.016 | 125911 | 0.5692 | 0.9804 | 53.1* | Endrin aldehyde | |
| 5.473 | 0.003 | 92988 | 5.909 | -0.009 | 38221 | 1.2227 | 0.2148 | 140.2* | gamma-Chlordane | |
| 5.630 | 0.037 | 8763 | ---- | ---- | ---- | 0.1211 | 0.0000 | --- | alpha-Chlordane | |
| 2.064 | 0.011 | 30819 | 2.102 | -0.011 | 153344 | 0.3007 | 0.5319 | 55.5* | Hexachlorobutadiene | |
| 3.714 | -0.003 | 58701 | 3.991 | -0.004 | 28074 | 0.9183 | 0.1158 | 155.2* | Hexachlorobenzene | |
| 5.251 | -0.001 | 11027 | 5.635 | -0.008 | 14169 | 0.1740 | 0.0930 | 60.7* | Oxychlordane | |
| 5.383 | 0.042 | 3481 | 5.948 | 0.038 | 301143 | 0.0780 | 3.0343 | 190.0* | 2,4-DDE | |
| 5.582 | 0.002 | 15359 | 5.999 | -0.007 | 199291 | 0.1894 | 1.0085 | 136.7* | trans-Nonachlor | |
| 5.828 | -0.002 | 13209 | 6.396 | -0.003 | 95850 | 0.3211 | 0.8686 | 92.0* | 2,4-DDD | |
| 6.068 | -0.001 | 18402 | 6.680 | -0.005 | 185516 | 0.3396 | 1.5475 | 128.0* | 2,4-DDT | |
| 6.196 | -0.001 | 24210 | 6.731 | -0.003 | 286859 | 0.2697 | 1.4395 | 136.9* | cis-Nonachlor | |
| 7.062 | -0.001 | 17462 | 7.860 | -0.003 | 95623 | 0.2937 | 0.7985 | 92.4* | Mirex | |
| 8.387 | -0.002 | 6849218 | 9.351 | -0.004 | 9694026 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 1.721 | 0.001 | 144825 | 1.766 | -0.004 | 54026 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.405 | -0.001 | 2043306 | 3.585 | -0.003 | 6017263 | 29.7115 | 31.0903 | 4.5 | Tetrachloro-m-xylene | |
| 8.250 | -0.001 | 2676544 | 8.906 | -0.002 | 4516570 | 34.7861 | 33.6543 | 3.3 | Decachlorobiphenyl | |

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01509

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 74.3 | 77.7 | 74.3~ | 130- 0 |
| Decachlorobiphenyl | 87.0 | 84.1 | 84.1~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4647725 | -4.0 |
| Hexabromobiphenyl | 6506091 | 6849218 | 5.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15596280 | -3.9 |
| Hexabromobiphenyl | 8472750 | 9694026 | 14.4 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|-----------------------------------|-------|-------|-------|--------|--------------------------------|-------|-------|--------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.472 | 0.048 | 25405 | 7.805 | 1 | 6.605 | -0.002 | 82048 | 15.569 |
| Toxaphene | 2 | --- | --- | --- | 0.000 | 2 | 6.944 | 0.013 | 16996 | 2.161 |
| Toxaphene | 3 | 6.705 | 0.031 | 32905 | 14.317 | 3 | 7.142 | -0.023 | 125911 | 15.229 |
| Toxaphene | 4 | 6.918 | 0.041 | 23233 | 9.399 | 4 | 7.620 | -0.005 | 33965 | 5.169 |
| Toxaphene | 5 | 7.062 | 0.007 | 17462 | 4.635 | 5 | 7.676 | 0.007 | 36633 | 4.094 |
| Toxaphene | 6 | 7.407 | 0.032 | 28201 | 10.680 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (5 peaks): 9.367 | | | | | Total CLP2Ave (5 peaks): 8.445 | | | | | RPD = 10 |
| Corrected Ave (5 peaks): 9.367 | | | | | Corrected Ave (3 peaks): 3.808 | | | | | RPD = 84* |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AP 5/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A132.d ARI ID: UU52LCSS1

Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A132.d Client ID:

Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m

Injection Date: 25-MAY-2012 03:52

Compound Sublist: wpest

Report Date: 05/25/2012 08:06

Instrument, Inj. Vol.: ecd6.i, 1ul

Matrix: NONE

Operator: ar

Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|-------------------|-------------------|------------------|----------------------|
| 2.794 | -0.002 | 4684042 | 2.852 | -0.002 | 15002976 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.845 | -0.001 | 1441520 | 4.105 | -0.002 | 4103065 | 15.4244 | 16.0606 | 4.0 | alpha-BHC |
| 4.182 | 0.000 | 556569 | 4.500 | -0.002 | 1620072 | 15.9663 | 16.4850 | 3.2 | beta-BHC |
| 4.336 | -0.001 | 1178544 | 4.780 | -0.003 | 3701481 | 17.2847 | 20.2983 | 16.0 | delta-BHC |
| 4.105 | -0.001 | 1329603 | 4.426 | -0.002 | 3786074 | 16.9598 | 17.3689 | 2.4 | gamma-BHC (Lindane) |
| 4.517 | -0.001 | 1414852 | 4.848 | -0.002 | 3403573 | 16.3488 | 15.5152 | 5.2 | Heptachlor |
| 4.787 | 0.000 | 1264466 | 5.168 | -0.002 | 3183602 | 15.9293 | 16.7436 | 5.0 | Aldrin |
| 5.346 | 0.000 | 1246203 | 5.731 | -0.002 | 3379449 | 17.6299 | 18.3207 | 3.8 | Heptachlor epoxide b |
| 5.721 | 0.000 | 777757 | 6.116 | -0.001 | 1594724 | 8.1516 | 9.9326 | 19.7 | Endosulfan I |
| 5.946 | 0.000 | 2582102 | 6.375 | -0.002 | 6149548 | 33.9901 | 37.0505 | 8.6 | Dieldrin |
| 5.668 | -0.002 | 2276710 | 6.205 | -0.003 | 5768885 | 47.3743 | 39.3003 | 18.6 | 4,4'-DDE |
| 6.163 | 0.000 | 2454382 | 6.662 | -0.002 | 5330816 | 34.1950 | 32.9700 | 3.6 | Endrin |
| 6.370 | 0.000 | 1422891 | 6.856 | -0.002 | 3241894 | 20.3694 | 19.7894 | 2.9 | Endosulfan II |
| 6.227 | -0.001 | 2065984 | 6.746 | -0.003 | 4629363 | 36.5569 | 34.2628 | 6.5 | 4,4'-DDD |
| 7.138 | 0.000 | 2008291 | 7.403 | -0.001 | 4005124 | 32.7007 | 31.8205 | 2.7 | Endosulfan sulfate |
| 6.483 | 0.000 | 2228373 | 7.032 | -0.001 | 4545862 | 35.9038 | 34.1677 | 5.0 | 4,4'-DDT |
| 6.923 | -0.001 | 5209992 | 7.628 | -0.002 | 8980435 | 164.7648 | 154.5204 | 6.4 | Methoxychlor |
| 7.388 | 0.000 | 2550711 | 7.880 | -0.002 | 5373645 | 32.7614 | 33.1620 | 1.2 | Endrin ketone |
| 6.748 | -0.001 | 1461558 | 7.157 | -0.002 | 3240338 | 25.9447 | 25.9701 | 0.1 | Endrin aldehyde |
| 5.470 | 0.000 | 1380691 | 5.917 | -0.001 | 3448747 | 18.0138 | 20.1499 | 11.2 | gamma-Chlordane |
| 5.594 | 0.000 | 1207977 | 6.056 | -0.002 | 2968245 | 16.5610 | 18.2228 | 9.6 | alpha-Chlordane |
| 2.050 | -0.003 | 1336468 | 2.110 | -0.003 | 3689819 | 12.9394 | 13.3044 | 2.8 | Hexachlorobutadiene |
| 3.716 | -0.001 | 1050076 | 3.993 | -0.002 | 3767298 | 16.2993 | 16.1485 | 0.9 | Hexachlorobenzene |
| 5.265 | 0.013 | 5666 | 5.615 | -0.029 | 27630 | 0.0917 | 0.1884 | 69.0* | Oxychlorodane |
| 5.293 | -0.049 | 3225 | 5.876 | -0.033 | 58356 | 0.0741 | 0.6113 | 156.7* | 2,4-DDE |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | trans-Nonachlor |
| 5.829 | -0.001 | 38535 | ---- | ---- | ---- | 0.9613 | 0.0000 | --- | 2,4-DDD |
| 6.068 | -0.001 | 17143 | ---- | ---- | ---- | 0.3246 | 0.0000 | --- | 2,4-DDT |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| 7.098 | 0.036 | 11117 | ---- | ---- | ---- | 0.1918 | 0.0000 | --- | Mirex |
| 8.387 | -0.002 | 6674886 | 9.352 | -0.003 | 9418383 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.730 | 0.010 | 258912 | 1.766 | -0.004 | 42887 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.405 | -0.001 | 1835856 | 3.586 | -0.002 | 5671608 | 26.4880 | 30.4632 | 14.0 | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 2452338 | 8.907 | -0.001 | 4220011 | 32.7046 | 32.3648 | 1.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01514

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|-------|-------|-------|--------|
| Tetrachloro-m-xylene | 66.2 | 76.2 | 66.2 | 42-112 |
| Decachlorobiphenyl | 81.8 | 80.9 | 80.9 | 59-123 |
| alpha-BHC | 77.1 | 80.3 | 77.1 | 49-111 |
| beta-BHC | 79.8 | 82.4 | 79.8 | 54-107 |
| delta-BHC | 86.4 | 101.5 | 86.4 | 72-112 |
| gamma-BHC (Lindane) | 84.8 | 86.8 | 84.8 | 54-115 |
| Heptachlor | 81.7 | 77.6 | 77.6 | 45-133 |
| Aldrin | 79.6 | 83.7 | 79.6 | 53-114 |
| Heptachlor epoxide b | 88.1 | 91.6 | 88.1 | 60-121 |
| Endosulfan I | 40.8 | 49.7 | 40.8 | 40-129 |
| Dieldrin | 85.0 | 92.6 | 85.0 | 68-123 |
| 4,4'-DDE | 118.4 | 98.3 | 98.3 | 66-124 |
| Endrin | 85.5 | 82.4 | 82.4 | 60-135 |
| Endosulfan II | 50.9 | 49.5 | 49.5 | 46-130 |
| 4,4'-DDD | 91.4 | 85.7 | 85.7 | 54-129 |
| Endosulfan sulfate | 81.8 | 79.6 | 79.6 | 36-110 |
| 4,4'-DDT | 89.8 | 85.4 | 85.4 | 50-133 |
| Methoxychlor | 82.4 | 77.3 | 77.3 | 46-138 |
| Endrin ketone | 81.9 | 82.9 | 81.9 | 45-131 |
| Endrin aldehyde | 64.9 | 64.9 | 64.9 | 25-100 |
| gamma-Chlordane | 90.1 | 100.7 | 90.1 | 66-119 |
| alpha-Chlordane | 82.8 | 91.1 | 82.8 | 62-119 |
| Hexachlorobutadiene | 64.7 | 66.5 | 64.7 | 39-100 |
| Hexachlorobenzene | 81.5 | 80.7 | 80.7 | 41-108 |

~ Indicates recovery outside QC Limits

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|--------|-------|--------|
| Tetrachloro-m-xylene | 66.2 | 76.2 / | 66.2~ | 130- 0 |
| Decachlorobiphenyl | 81.8 | 80.9 | 80.9~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4684042 | -3.3 |
| Hexabromobiphenyl | 6506091 | 6674886 | 2.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15002976 | -7.5 |
| Hexabromobiphenyl | 8472750 | 9418383 | 11.2 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | STX-CLP Col | | | | Peak# | RT | CLP2 Col | | | |
|-------------------------------------|-------|-------------|--------|---------|----------------------------------|-------|-------|----------|---------|-----------|--|
| | | Shift | Height | Amount | Shift | | | Height | Amount | | |
| Toxaphene | 1 | 6.442 | 0.018 | 15410 | 4.858 | 1 | 6.598 | -0.008 | 52034 | 10.163 | |
| Toxaphene | 2 | 6.483 | 0.008 | 2228373 | 917.062 | 2 | 6.949 | 0.017 | 10310 | 1.350 | |
| Toxaphene | 3 | 6.649 | -0.024 | 36206 | 16.165 | 3 | 7.157 | -0.009 | 3240338 | 403.402 | |
| Toxaphene | 4 | 6.923 | 0.045 | 5209992 | 2162.818 | 4 | 7.628 | 0.002 | 8980435 | 1406.549 | |
| Toxaphene | 5 | 7.098 | 0.043 | 11117 | 3.028 | 5 | --- | --- | --- | 0.000 | |
| Toxaphene | 6 | 7.388 | 0.013 | 2550711 | 991.188 | NS | --- | --- | --- | --- | |
| Total STX-CLPAve (6 peaks): 682.520 | | | | | Total CLP2Ave (4 peaks): 455.366 | | | | | RPD = 40 | |
| Corrected Ave (5 peaks): 386.460 | | | | | Corrected Ave (3 peaks): 138.305 | | | | | RPD = 95* | |

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

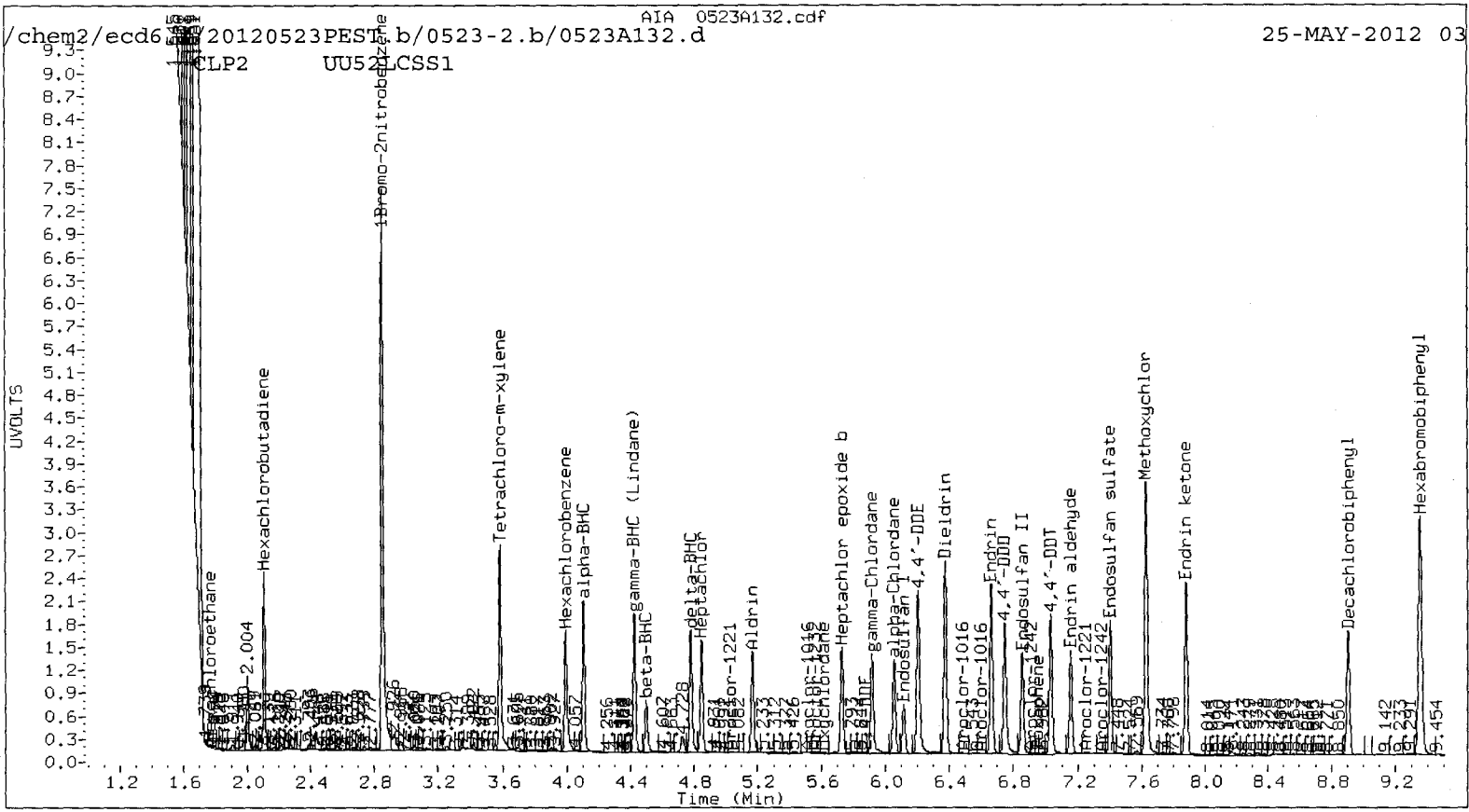
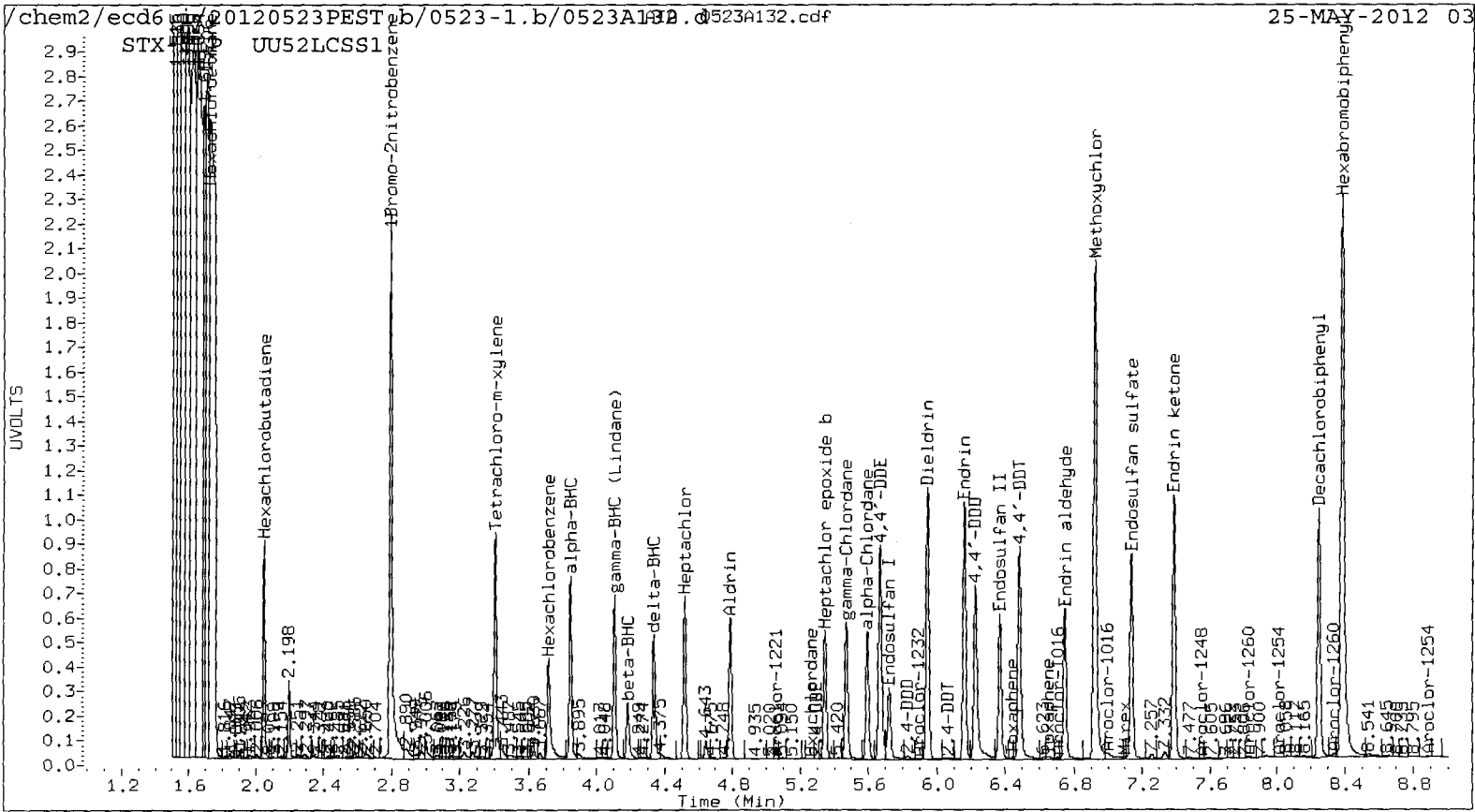
| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UU52 : 01510

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 5/25/2012

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A133.d ARI ID: UU52A
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A133.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 04:10
 Compound Sublist: wpest Report Date: 05/25/2012 08:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4448672 | 2.854 | -0.001 | 15927983 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.844 | -0.002 | 9346 | 4.107 | -0.001 | 38999 | 0.1053 | 0.1438 | 30.9 | alpha-BHC |
| 4.187 | 0.005 | 3833 | 4.540 | 0.038 | 22829 | 0.1158 | 0.2188 | 61.6* | beta-BHC |
| 4.359 | 0.022 | 12869 | 4.782 | -0.001 | 40030 | 0.1987 | 0.2068 | 4.0 | delta-BHC |
| 4.104 | -0.002 | 22949 | 4.441 | 0.012 | 110413 | 0.3082 | 0.4771 | 43.0* | gamma-BHC (Lindane) |
| 4.514 | -0.003 | 8540 | 4.845 | -0.005 | 42397 | 0.1039 | 0.1820 | 54.7* | Heptachlor |
| 4.784 | -0.004 | 4535 | 5.153 | -0.018 | 62733 | 0.0602 | 0.3108 | 135.1* | Aldrin |
| 5.354 | 0.008 | 8423 | 5.709 | -0.024 | 63137 | 0.1255 | 0.3224 | 87.9* | Heptachlor epoxide b |
| 5.735 | 0.013 | 7638 | 6.118 | 0.000 | 14711 | 0.0843 | 0.0863 | 2.4 | Endosulfan I |
| 5.944 | -0.002 | 15139 | 6.371 | -0.006 | 46208 | 0.2098 | 0.2622 | 22.2 | Dieldrin |
| 5.670 | 0.000 | 7989 | 6.204 | -0.005 | 18635 | 0.1750 | 0.1196 | 37.7 | 4,4'-DDE |
| 6.160 | -0.003 | 4554 | 6.659 | -0.005 | 24987 | 0.0682 | 0.1539 | 77.1* | Endrin |
| 6.369 | -0.001 | 5488 | 6.856 | -0.001 | 37054 | 0.0845 | 0.2253 | 90.9* | Endosulfan II |
| 6.229 | 0.002 | 14734 | 6.746 | -0.003 | 34605 | 0.2803 | 0.2551 | 9.4 | 4,4'-DDD |
| 7.137 | -0.001 | 6237 | 7.382 | -0.022 | 26848 | 0.1092 | 0.2125 | 64.2* | Endosulfan sulfate |
| 6.484 | 0.000 | 6331 | 7.032 | -0.002 | 31483 | 0.1097 | 0.2357 | 73.0* | 4,4'-DDT |
| 6.923 | 0.000 | 20324 | 7.627 | -0.002 | 37688 | 0.6911 | 0.6459 | 6.8 | Methoxychlor |
| 7.388 | 0.000 | 6029 | 7.881 | 0.000 | 44773 | 0.0833 | 0.2752 | 107.1* | Endrin ketone |
| 6.752 | 0.004 | 11319 | 7.158 | -0.001 | 16336 | 0.2160 | 0.1304 | 49.4* | Endrin aldehyde |
| 5.474 | 0.005 | 13064 | 5.951 | 0.033 | 36698 | 0.1795 | 0.2020 | 11.8 | gamma-Chlordane |
| --- | --- | --- | 6.052 | -0.005 | 29614 | 0.0000 | 0.1712 | --- | alpha-Chlordane |
| 2.052 | -0.001 | 4104 | 2.109 | -0.003 | 25359 | 0.0418 | 0.0861 | 69.2* | Hexachlorobutadiene |
| 3.721 | 0.004 | 7565 | 3.994 | -0.001 | 25427 | 0.1237 | 0.1027 | 18.5 | Hexachlorobenzene |
| 5.238 | -0.014 | 24989 | 5.647 | 0.003 | 37686 | 0.4350 | 0.2421 | 57.0* | Oxychlorthane |
| 5.323 | -0.018 | 2560 | 5.907 | -0.003 | 34560 | 0.0633 | 0.3410 | 137.4* | 2,4-DDE |
| 5.558 | -0.022 | 27665 | 6.000 | -0.006 | 75218 | 0.3765 | 0.3902 | 3.6 | trans-Nonachlor |
| 5.830 | 0.000 | 3326 | 6.424 | 0.025 | 42850 | 0.0892 | 0.3981 | 126.8* | 2,4-DDD |
| 6.042 | -0.026 | 5179 | --- | --- | --- | 0.1055 | 0.0000 | --- | 2,4-DDT |
| 6.197 | 0.000 | 3408 | 6.708 | -0.025 | 15916 | 0.0419 | 0.0819 | 64.6* | cis-Nonachlor |
| 7.061 | -0.002 | 8402 | --- | --- | --- | 0.1559 | 0.0000 | --- | Mirex |
| 8.387 | -0.002 | 6207764 | 9.352 | -0.003 | 9456432 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.719 | 0.000 | 969 | 1.770 | 0.000 | 12162 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.407 | 0.001 | 17933 | 3.586 | -0.001 | 41699 | 0.2724 | 0.2110 | 25.4 | Tetrachloro-m-xylene |
| 8.252 | 0.001 | 25081 | 8.906 | -0.002 | 25316 | 0.3597 | 0.1934 | 60.1* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01520

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.7 | 0.5 | 0.5~ | 130- 0 |
| Decachlorobiphenyl | 0.9 | 0.5 | 0.5~ | 130- 0 |

~ Indicates recovery outside QC Limits

①

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4448672 | -8.1 |
| Hexabromobiphenyl | 6506091 | 6207764 | -4.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 15927983 | -1.8 |
| Hexabromobiphenyl | 8472750 | 9456432 | 11.6 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | STX-CLP Col | | | | Peak# | RT | CLP2 Col | | | |
|-----------|-------|-------------|-------|--------|--------|-------|-------|----------|--------|--------|--|
| | | RT | Shift | Height | Amount | | | Shift | Height | Amount | |
| Toxaphene | 1 | 6.452 | 0.028 | 7576 | 2.568 | 1 | 6.621 | 0.015 | 15212 | 2.959 | |
| Toxaphene | 2 | 6.484 | 0.009 | 6331 | 2.802 | 2 | 6.922 | -0.009 | 36786 | 4.796 | |
| Toxaphene | 3 | 6.674 | 0.001 | 8312 | 3.991 | 3 | 7.158 | -0.008 | 16336 | 2.026 | |
| Toxaphene | 4 | 6.880 | 0.002 | 17338 | 7.740 | 4 | 7.627 | 0.002 | 37688 | 5.879 | |
| Toxaphene | 5 | 7.061 | 0.005 | 8402 | 2.460 | 5 | 7.671 | 0.001 | 15608 | 1.788 | |
| Toxaphene | 6 | 7.388 | 0.013 | 6029 | 2.519 | NS | --- | --- | --- | --- | |

Total STX-CLPAve (6 peaks): 3.680 Total CLP2Ave (5 peaks): 3.490 RPD = 5
 Corrected Ave (5 peaks): 2.868 Corrected Ave (5 peaks): 3.490 RPD = 20

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1016 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1016 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1016 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1016 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1016 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1221 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1221 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1221 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1221 | 4 | --- | 0.000 | 4 | --- | 0.000 |

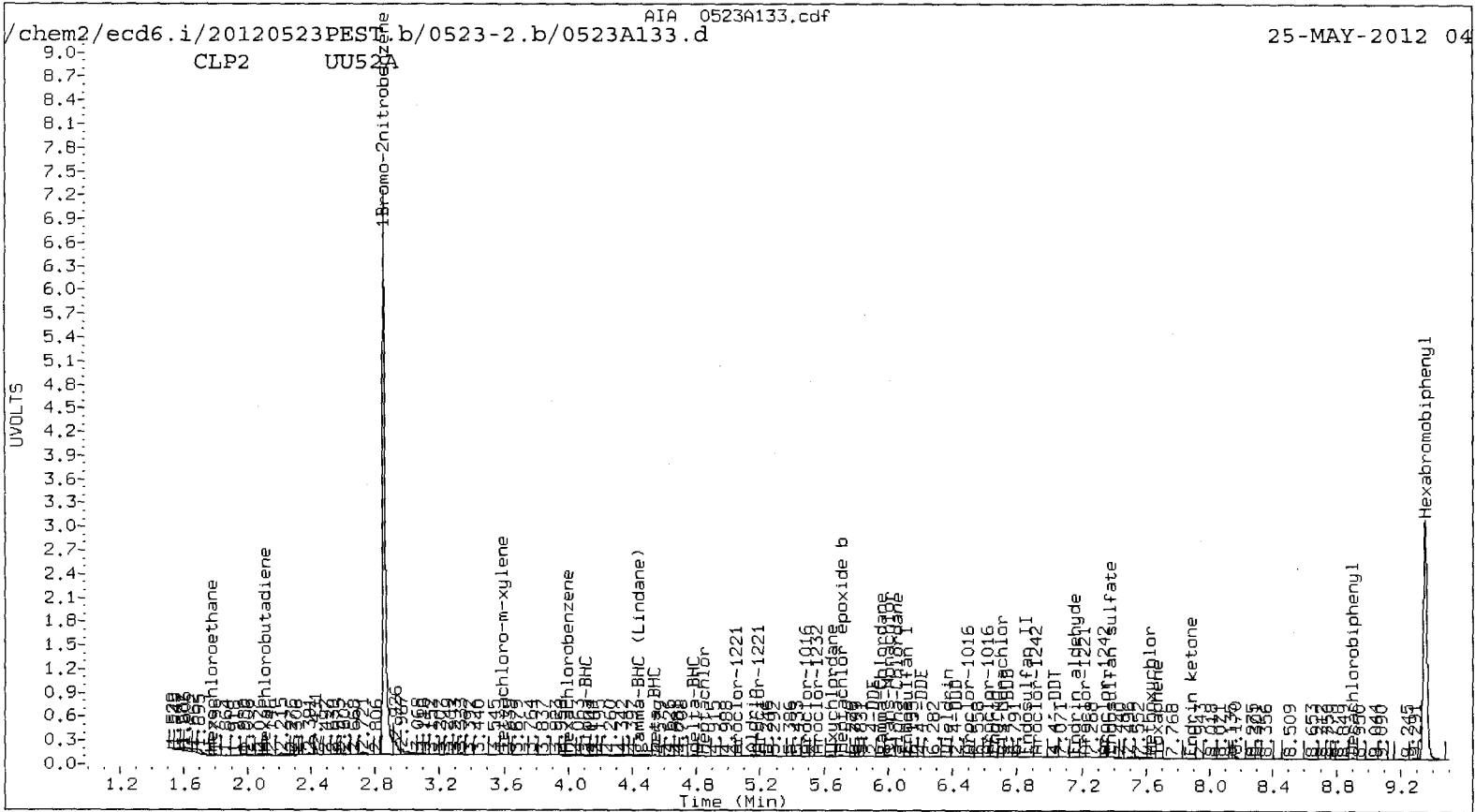
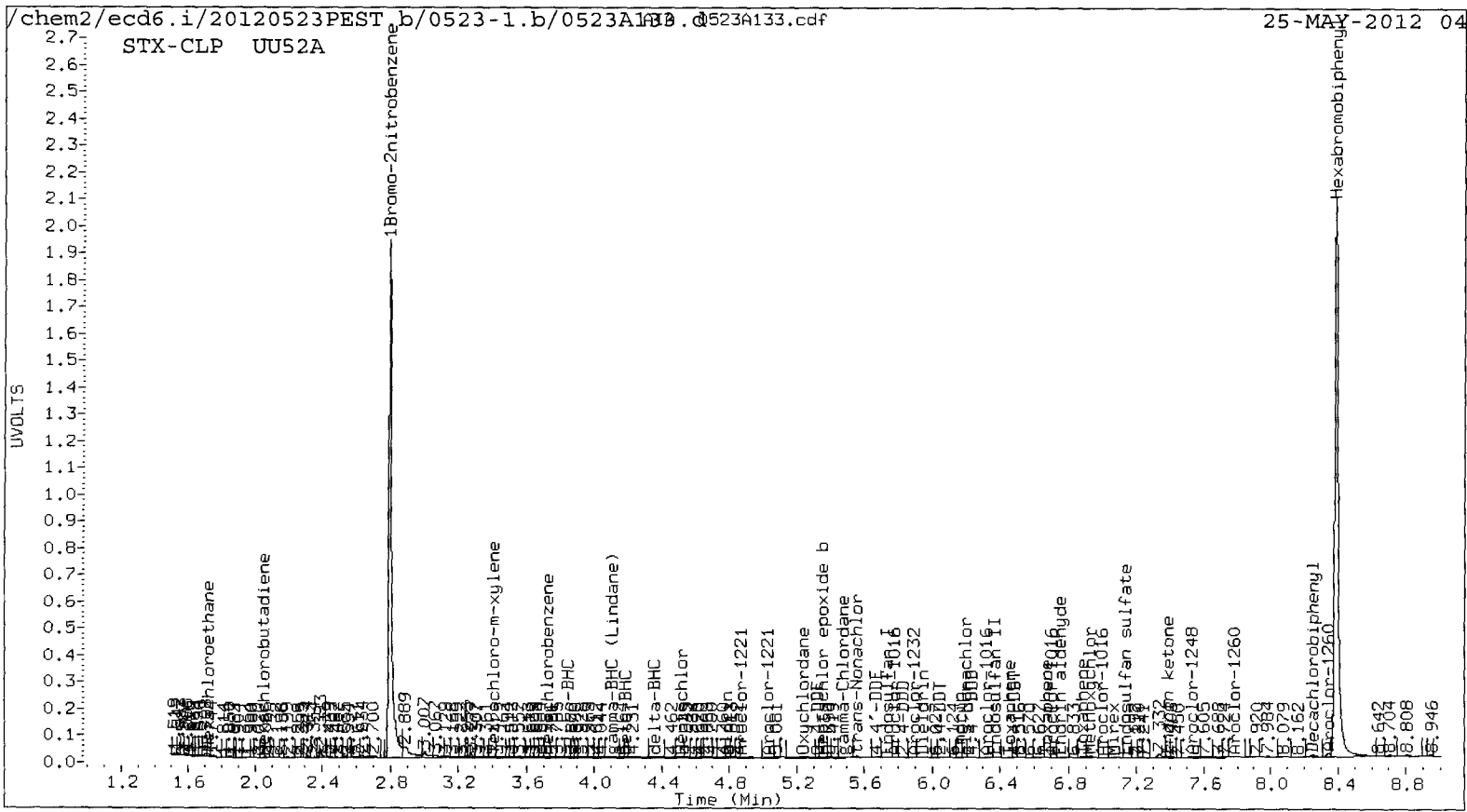
STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1232 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1232 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1232 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1232 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1232 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|----|-----|-------|
| Aroclor-1242 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1242 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1242 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1242 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1242 | 5 | --- | 0.000 | 5 | --- | 0.000 |
| Aroclor-1242 | 6 | --- | 0.000 | NS | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UU52 : 01524

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

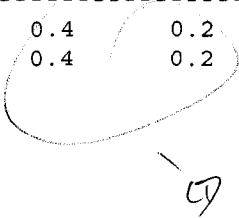
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 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A134.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 04:28
 Compound Sublist: wpest Report Date: 05/25/2012 08:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | | | RPD | Compound/Flag | | |
|-------------|----------|----------|-------|--------|----------|---------|---------------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |
| 2.796 | 0.000 | 4445233 | 2.854 | -0.001 | 16124314 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.844 | -0.003 | 6548 | 4.107 | -0.001 | 27383 | 0.0738 | 0.0997 | 29.8 | alpha-BHC |
| 4.192 | 0.010 | 1685 | 4.486 | -0.016 | 15336 | 0.0509 | 0.1452 | 96.1* | beta-BHC |
| 4.324 | -0.013 | 2176 | 4.782 | -0.001 | 25647 | 0.0336 | 0.1309 | 118.2* | delta-BHC |
| 4.086 | -0.021 | 12089 | 4.444 | 0.015 | 48635 | 0.1625 | 0.2076 | 24.4 | gamma-BHC (Lindane) |
| 4.520 | 0.003 | 5296 | 4.825 | -0.024 | 15272 | 0.0645 | 0.0648 | 0.5 | Heptachlor |
| 4.759 | -0.029 | 17086 | 5.153 | -0.017 | 39938 | 0.2268 | 0.1954 | 14.9 | Aldrin |
| 5.357 | 0.012 | 6685 | 5.745 | 0.012 | 9776 | 0.0997 | 0.0493 | 67.6* | Heptachlor epoxide b |
| 5.712 | -0.010 | 2161 | 6.137 | 0.019 | 12736 | 0.0239 | 0.0738 | 102.2* | Endosulfan I |
| 5.944 | -0.003 | 11943 | 6.370 | -0.007 | 12054 | 0.1657 | 0.0676 | 84.1* | Dieldrin |
| 5.672 | 0.002 | 4852 | 6.203 | -0.005 | 10921 | 0.1064 | 0.0692 | 42.3* | 4,4'-DDE |
| 6.145 | -0.018 | 1579 | 6.648 | -0.017 | 13942 | 0.0234 | 0.0846 | 113.2* | Endrin |
| ---- | ---- | ---- | 6.855 | -0.002 | 26121 | 0.0000 | 0.1564 | --- | Endosulfan II |
| 6.230 | 0.003 | 11474 | 6.745 | -0.003 | 26539 | 0.2163 | 0.1927 | 11.5 | 4,4'-DDD |
| 7.141 | 0.003 | 3286 | 7.383 | -0.022 | 19349 | 0.0570 | 0.1508 | 90.3* | Endosulfan sulfate |
| 6.483 | -0.001 | 2813 | 7.032 | -0.002 | 11240 | 0.0483 | 0.0829 | 52.7* | 4,4'-DDT |
| 6.881 | -0.042 | 22676 | 7.586 | -0.043 | 25272 | 0.7641 | 0.4266 | 56.7* | Methoxychlor |
| 7.410 | 0.021 | 7864 | 7.890 | 0.009 | 20260 | 0.1076 | 0.1227 | 13.1 | Endrin ketone |
| 6.760 | 0.012 | 7669 | 7.159 | 0.001 | 8791 | 0.1451 | 0.0691 | 70.9* | Endrin aldehyde |
| 5.483 | 0.014 | 9427 | 5.951 | 0.033 | 31267 | 0.1296 | 0.1700 | 27.0 | gamma-Chlordane |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 2.041 | -0.013 | 2208 | 2.106 | -0.007 | 19077 | 0.0225 | 0.0640 | 95.9* | Hexachlorobutadiene |
| 3.723 | 0.006 | 6128 | 3.992 | -0.003 | 14473 | 0.1002 | 0.0577 | 53.8* | Hexachlorobenzene |
| 5.244 | -0.008 | 18608 | 5.648 | 0.004 | 33574 | 0.3210 | 0.2130 | 40.4* | Oxychlordane |
| 5.324 | -0.017 | 2150 | 5.895 | -0.014 | 13396 | 0.0527 | 0.1306 | 85.0* | 2,4-DDE |
| 5.560 | -0.020 | 23756 | 6.000 | -0.006 | 83605 | 0.3204 | 0.4272 | 28.6 | trans-Nonachlor |
| 5.812 | -0.018 | 1706 | 6.421 | 0.023 | 42529 | 0.0454 | 0.3892 | 158.2* | 2,4-DDD |
| 6.043 | -0.026 | 6527 | ---- | ---- | ---- | 0.1317 | 0.0000 | --- | 2,4-DDT |
| 6.198 | 0.001 | 3521 | 6.709 | -0.025 | 19631 | 0.0429 | 0.0995 | 79.5* | cis-Nonachlor |
| 7.062 | 0.000 | 3720 | 7.854 | -0.009 | 14507 | 0.0684 | 0.1223 | 56.5* | Mirex |
| 8.388 | -0.002 | 6264658 | 9.352 | -0.003 | 9599569 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.000 | 981 | 1.770 | 0.000 | 10416 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.408 | 0.002 | 11319 | 3.586 | -0.002 | 19220 | 0.1721 | 0.0961 | 56.7* | Tetrachloro-m-xylene |
| 8.253 | 0.003 | 12210 | 8.907 | -0.001 | 10369 | 0.1735 | 0.0780 | 75.9* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.4 | 0.2 | 0.2~ | 130- 0 |
| Decachlorobiphenyl | 0.4 | 0.2 | 0.2~ | 130- 0 |



~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4445233 | -8.2 |
| Hexabromobiphenyl | 6506091 | 6264658 | -3.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16124314 | -0.6 |
| Hexabromobiphenyl | 8472750 | 9599569 | 13.3 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|-----------|-------|-------|-------------|--------|--------|-------|-------|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Toxaphene | 1 | 6.456 | 0.032 | 6784 | 2.279 | 1 | 6.624 | 0.017 | 14021 | 2.687 |
| Toxaphene | 2 | 6.483 | 0.008 | 2813 | 1.234 | 2 | 6.923 | -0.008 | 38681 | 4.967 |
| Toxaphene | 3 | 6.674 | 0.001 | 7862 | 3.740 | 3 | 7.159 | -0.006 | 8791 | 1.074 |
| Toxaphene | 4 | 6.881 | 0.004 | 22676 | 10.030 | 4 | 7.586 | -0.039 | 25272 | 3.884 |
| Toxaphene | 5 | 7.062 | 0.007 | 3720 | 1.080 | 5 | 7.672 | 0.002 | 19418 | 2.192 |
| Toxaphene | 6 | 7.410 | 0.034 | 7864 | 3.256 | NS | --- | --- | --- | --- |

Total STX-CLPAve (6 peaks): 3.603

Total CLP2Ave (5 peaks): 2.961 RPD = 20

Corrected Ave (5 peaks): 2.318

Corrected Ave (5 peaks): 2.961 RPD = 24

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1016 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1016 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1016 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1016 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1016 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1221 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1221 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1221 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1221 | 4 | --- | 0.000 | 4 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|---|-----|-------|
| Aroclor-1232 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1232 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1232 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1232 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1232 | 5 | --- | 0.000 | 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | |
|--------------|---|-----|-------|----|-----|-------|
| Aroclor-1242 | 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1242 | 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1242 | 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1242 | 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1242 | 5 | --- | 0.000 | 5 | --- | 0.000 |
| Aroclor-1242 | 6 | --- | 0.000 | NS | --- | --- |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1248 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1254 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1260 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1262 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

| | | |
|----------------|-----|-------|
| Aroclor-1268 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

| | | |
|---|-----|-------|
| 1 | --- | 0.000 |
| 2 | --- | 0.000 |
| 3 | --- | 0.000 |
| 4 | --- | 0.000 |
| 5 | --- | 0.000 |

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A135.d ARI ID: UU52C
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A135.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 04:46
 Compound Sublist: wpest Report Date: 05/25/2012 08:06
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 5000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4528822 | 2.854 | -0.001 | 17351744 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| ---- | | | 4.107 | -0.001 | 7783 | 0.0000 | 0.0263 | --- | alpha-BHC |
| ---- | | | 4.497 | -0.005 | 9876 | 0.0000 | 0.0869 | --- | beta-BHC |
| ---- | | | 4.779 | -0.003 | 10285 | 0.0000 | 0.0488 | --- | delta-BHC |
| 4.113 | 0.007 | 1277 | 4.464 | 0.035 | 18099 | 0.0168 | 0.0718 | 124.0* | gamma-BHC (Lindane) |
| ---- | | | 4.842 | -0.007 | 7048 | 0.0000 | 0.0278 | --- | Heptachlor |
| 4.775 | -0.012 | 3870 | 5.189 | 0.019 | 108992 | 0.0504 | 0.4956 | 163.1* | Aldrin |
| 5.358 | 0.013 | 5846 | 5.715 | -0.018 | 34196 | 0.0855 | 0.1603 | 60.8* | Heptachlor epoxide b |
| 5.739 | 0.018 | 1652 | 6.137 | 0.020 | 14666 | 0.0179 | 0.0790 | 126.0* | Endosulfan I |
| 5.945 | -0.001 | 2778 | 6.373 | -0.004 | 12440 | 0.0378 | 0.0648 | 52.6* | Dieldrin |
| 5.676 | 0.007 | 1439 | 6.220 | 0.012 | 11248 | 0.0310 | 0.0663 | 72.6* | 4,4'-DDE |
| ---- | | | 6.664 | -0.001 | 15189 | 0.0000 | 0.0865 | --- | Endrin |
| 6.372 | 0.001 | 2166 | 6.855 | -0.002 | 15863 | 0.0312 | 0.0892 | 96.4* | Endosulfan II |
| 6.234 | 0.007 | 3771 | 6.746 | -0.003 | 24865 | 0.0671 | 0.1695 | 86.6* | 4,4'-DDD |
| 7.105 | -0.032 | 1342 | 7.395 | -0.009 | 8355 | 0.0220 | 0.0612 | 94.3* | Endosulfan sulfate |
| 6.489 | 0.006 | 3192 | 7.025 | -0.009 | 15777 | 0.0517 | 0.1093 | 71.5* | 4,4'-DDT |
| 6.925 | 0.002 | 5512 | 7.649 | 0.020 | 3375 | 0.1752 | 0.0535 | 106.4* | Methoxychlor |
| 7.411 | 0.023 | 9974 | 7.882 | 0.001 | 22815 | 0.1287 | 0.1297 | 0.7 | Endrin ketone |
| 6.754 | 0.005 | 3325 | 7.156 | -0.002 | 9000 | 0.0593 | 0.0665 | 11.4 | Endrin aldehyde |
| 5.506 | 0.037 | 5566 | 5.916 | -0.002 | 7169 | 0.0751 | 0.0362 | 69.9* | gamma-Chlordane |
| 5.632 | 0.038 | 2119 | 6.039 | -0.019 | 17980 | 0.0301 | 0.0954 | 104.2* | alpha-Chlordane |
| 2.067 | 0.013 | 5280 | 2.106 | -0.006 | 7181 | 0.0529 | 0.0224 | 81.0* | Hexachlorobutadiene |
| ---- | | | 3.992 | -0.003 | 11125 | 0.0000 | 0.0412 | --- | Hexachlorobenzene |
| 5.288 | 0.036 | 2386 | ---- | | | 0.0388 | 0.0000 | --- | Oxychlorane |
| ---- | | | 5.872 | -0.037 | 3433 | 0.0000 | 0.0311 | --- | 2,4-DDE |
| 5.574 | -0.006 | 4337 | 6.013 | 0.007 | 16271 | 0.0552 | 0.0781 | 34.4 | trans-Nonachlor |
| ---- | | | 6.416 | 0.017 | 11320 | 0.0000 | 0.0973 | --- | 2,4-DDD |
| 6.047 | -0.021 | 1025 | ---- | | | 0.0195 | 0.0000 | --- | 2,4-DDT |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| ---- | | | 7.851 | -0.012 | 3931 | 0.0000 | 0.0311 | --- | Mirex |
| 8.389 | 0.000 | 6642351 | 9.353 | -0.003 | 10223208 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.001 | 739 | 1.770 | 0.000 | 10071 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.409 | 0.003 | 2353 | 3.589 | 0.001 | 3752 | 0.0351 | 0.0174 | 67.4* | Tetrachloro-m-xylene |
| 8.253 | 0.002 | 6737 | 8.907 | -0.001 | 4797 | 0.0903 | 0.0339 | 90.8* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01530

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.1 | 0.0 | 0.0~ | 130- 0 |
| Decachlorobiphenyl | 0.2 | 0.1 | 0.1~ | 130- 0 |

~ Indicates recovery outside QC Limits

(1)

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4528822 | -6.5 |
| Hexabromobiphenyl | 6506091 | 6642351 | 2.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 17351744 | 6.9 |
| Hexabromobiphenyl | 8472750 | 10223208 | 20.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|--------|--------|--------------------------|-------|----------|--------|--------|-------|----------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | --- | | | 0.000 | 1 | 6.623 | 0.017 | 7020 | 1.263 | | |
| Toxaphene | 2 | 6.489 | 0.014 | 3192 | 1.320 | 2 | 6.928 | -0.003 | 40489 | 4.882 | | |
| Toxaphene | 3 | 6.674 | 0.001 | 4091 | 1.836 | 3 | 7.156 | -0.009 | 9000 | 1.032 | | |
| Toxaphene | 4 | 6.925 | 0.047 | 5512 | 2.300 | 4 | 7.649 | 0.023 | 3375 | 0.487 | | |
| Toxaphene | 5 | 7.105 | 0.050 | 1342 | 0.368 | 5 | 7.680 | 0.011 | 15155 | 1.606 | | |
| Toxaphene | 6 | 7.411 | 0.036 | 9974 | 3.895 | NS | --- | | | --- | | |
| Total STX-CLPAve (5 peaks): | | | | | 1.944 | Total CLP2Ave (5 peaks): | | | | | 1.854 | RPD = 5 |
| Corrected Ave (4 peaks): | | | | | 1.456 | Corrected Ave (4 peaks): | | | | | 1.097 | RPD = 28 |

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1016 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1016 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1016 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1016 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1016 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1221 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1221 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1221 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1221 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |

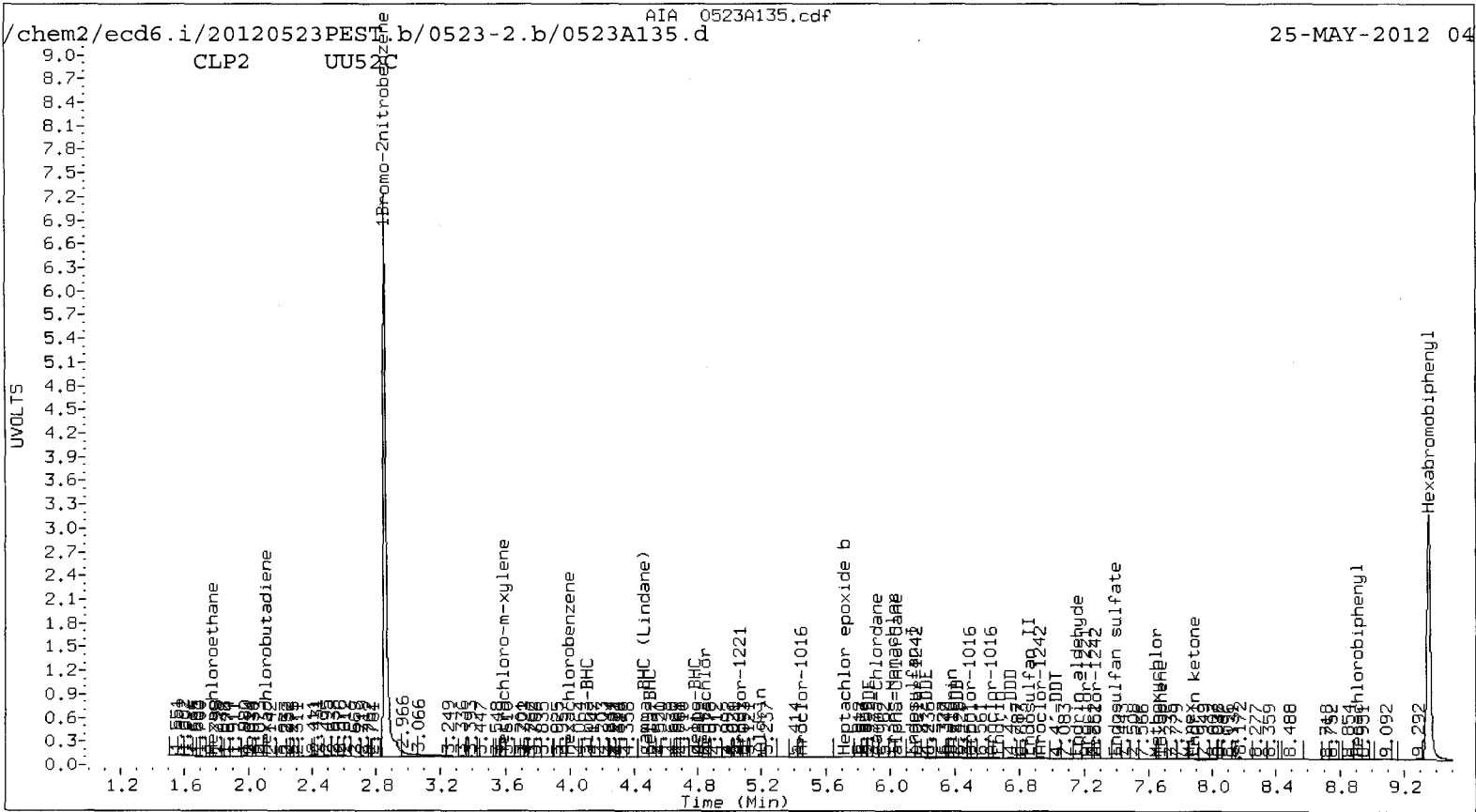
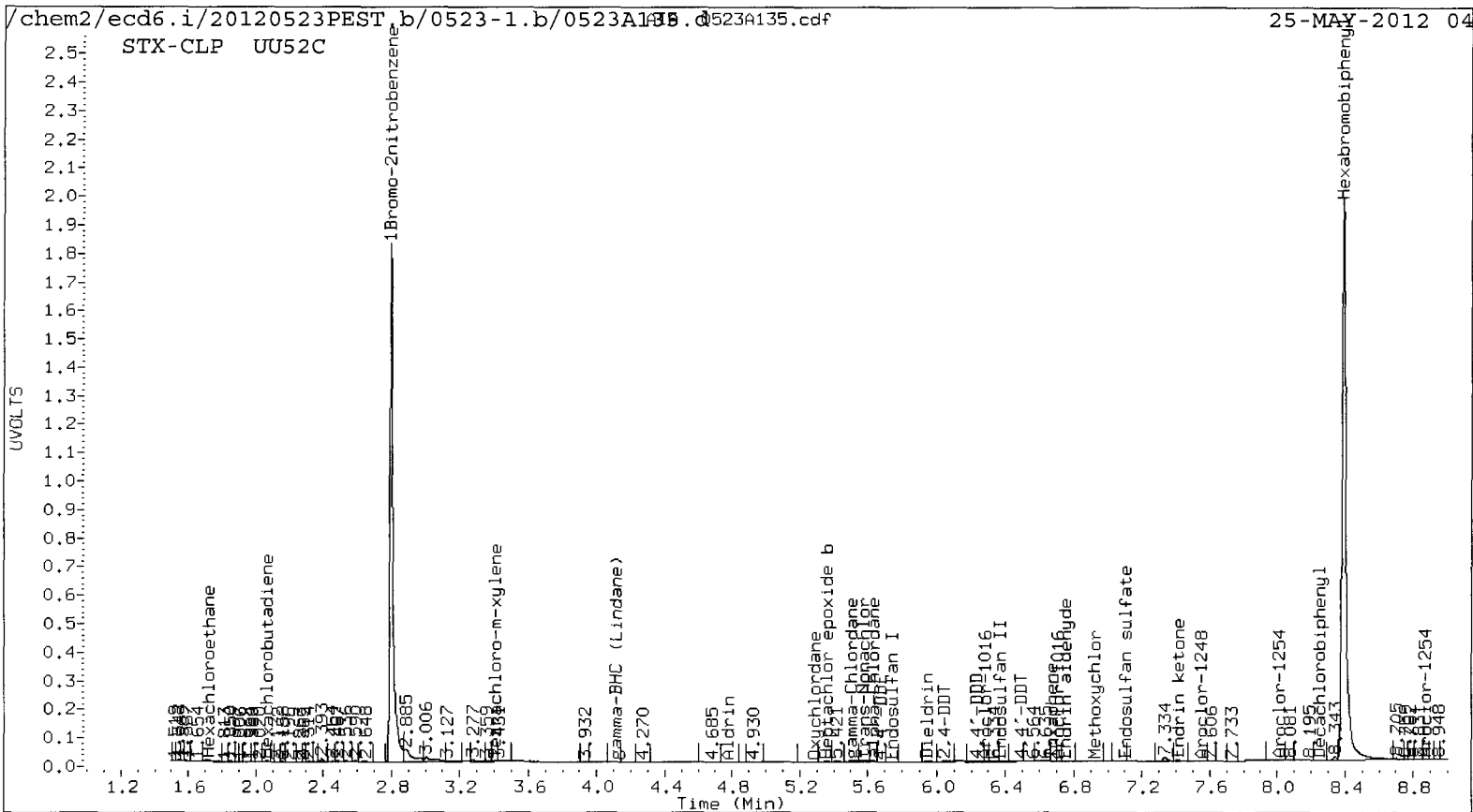
STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|---|-----|--|--|-------|
| Aroclor-1232 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1232 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1232 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1232 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1232 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|--|--|-------|----|-----|--|--|-------|
| Aroclor-1242 | 1 | --- | | | 0.000 | 1 | --- | | | 0.000 |
| Aroclor-1242 | 2 | --- | | | 0.000 | 2 | --- | | | 0.000 |
| Aroclor-1242 | 3 | --- | | | 0.000 | 3 | --- | | | 0.000 |
| Aroclor-1242 | 4 | --- | | | 0.000 | 4 | --- | | | 0.000 |
| Aroclor-1242 | 5 | --- | | | 0.000 | 5 | --- | | | 0.000 |
| Aroclor-1242 | 6 | --- | | | 0.000 | NS | --- | | | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A138.d ARI ID: UU52D
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A138.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 05:39
 Compound Sublist: wpest Report Date: 05/25/2012 08:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | | |
| 2.796 | -0.001 | 4611525 | 2.853 | -0.001 | 16504915 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene | |
| 3.843 | -0.003 | 4679 | 4.107 | -0.001 | 12477 | 0.0509 | 0.0444 | 13.6 | alpha-BHC | |
| 4.195 | 0.013 | 2309 | 4.486 | -0.016 | 21273 | 0.0673 | 0.1968 | 98.1* | beta-BHC | |
| 4.329 | -0.008 | 3666 | 4.782 | 0.000 | 39754 | 0.0546 | 0.1982 | 113.6* | delta-BHC | |
| 4.100 | -0.006 | 2956 | 4.448 | 0.019 | 60650 | 0.0383 | 0.2529 | 147.4* | gamma-BHC (Lindane) | |
| 4.509 | -0.009 | 8057 | 4.873 | 0.024 | 14121 | 0.0946 | 0.0585 | 47.1* | Heptachlor | |
| 4.814 | 0.026 | 3296 | 5.152 | -0.019 | 29690 | 0.0422 | 0.1419 | 108.4* | Aldrin | |
| 5.353 | 0.007 | 4373 | 5.740 | 0.007 | 9381 | 0.0628 | 0.0462 | 30.5 | Heptachlor epoxide b | |
| 5.706 | -0.016 | 2174 | 6.130 | 0.013 | 35610 | 0.0231 | 0.2016 | 158.8* | Endosulfan I | |
| 5.944 | -0.002 | 10350 | 6.373 | -0.004 | 18106 | 0.1384 | 0.0992 | 33.0 | Dieldrin | |
| 5.670 | 0.000 | 2906 | 6.206 | -0.002 | 15461 | 0.0614 | 0.0957 | 43.7* | 4,4'-DDE | |
| 6.121 | -0.042 | 5930 | 6.665 | 0.001 | 25361 | 0.0836 | 0.1455 | 54.0* | Endrin | |
| 6.378 | 0.008 | 4290 | 6.851 | -0.006 | 39942 | 0.0622 | 0.2261 | 113.8* | Endosulfan II | |
| 6.230 | 0.002 | 11223 | 6.743 | -0.005 | 35927 | 0.2010 | 0.2466 | 20.4 | 4,4'-DDD | |
| 7.136 | -0.002 | 4895 | 7.386 | -0.018 | 14561 | 0.0807 | 0.1073 | 28.3 | Endosulfan sulfate | |
| 6.513 | 0.030 | 8239 | 7.016 | -0.017 | 47629 | 0.1344 | 0.3320 | 84.8* | 4,4'-DDT | |
| 6.930 | 0.006 | 7187 | 7.602 | -0.027 | 72783 | 0.2300 | 1.1614 | 133.9* | Methoxychlor | |
| 7.410 | 0.022 | 9687 | 7.885 | 0.003 | 79003 | 0.1259 | 0.4522 | 112.9* | Endrin ketone | |
| 6.757 | 0.008 | 7725 | 7.160 | 0.002 | 20783 | 0.1388 | 0.1545 | 10.7 | Endrin aldehyde | |
| 5.480 | 0.010 | 17924 | 5.951 | 0.033 | 54937 | 0.2375 | 0.2918 | 20.5 | gamma-Chlordane | |
| 5.619 | 0.025 | 4961 | 6.055 | -0.003 | 22491 | 0.0691 | 0.1255 | 58.0* | alpha-Chlordane | |
| 2.041 | -0.013 | 2632 | 2.105 | -0.007 | 6543 | 0.0259 | 0.0214 | 18.8 | Hexachlorobutadiene | |
| 3.725 | 0.008 | 4424 | 3.991 | -0.004 | 14127 | 0.0697 | 0.0550 | 23.6 | Hexachlorobenzene | |
| 5.242 | -0.010 | 7336 | 5.642 | -0.002 | 14563 | 0.1202 | 0.0903 | 28.4 | Oxychlordane | |
| 5.325 | -0.017 | 2952 | 5.907 | -0.002 | 19205 | 0.0687 | 0.1829 | 90.8* | 2,4-DDE | |
| 5.559 | -0.021 | 9431 | 5.999 | -0.007 | 43410 | 0.1208 | 0.2097 | 53.8* | trans-Nonachlor | |
| 5.819 | -0.011 | 3919 | 6.417 | 0.018 | 43729 | 0.0990 | 0.3783 | 117.1* | 2,4-DDD | |
| 6.043 | -0.026 | 9059 | 6.652 | -0.033 | 14033 | 0.1736 | 0.1117 | 43.3* | 2,4-DDT | |
| 6.199 | 0.002 | 3557 | 6.707 | -0.027 | 8855 | 0.0412 | 0.0424 | 3.0 | cis-Nonachlor | |
| 7.088 | 0.026 | 7153 | 7.851 | -0.012 | 49631 | 0.1249 | 0.3956 | 104.0* | Mirex | |
| 8.388 | -0.002 | 6596017 | 9.351 | -0.004 | 10155427 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl | |
| 1.720 | 0.000 | 663 | 1.770 | 0.000 | 10361 | 0.0000 | 0.0000 | --- | Hexachloroethane | |
| 3.409 | 0.003 | 13632 | 3.585 | -0.003 | 27900 | 0.1998 | 0.1362 | 37.8 | Tetrachloro-m-xylene | |
| 8.254 | 0.003 | 27328 | 8.906 | -0.003 | 21940 | 0.3688 | 0.1561 | 81.1* | Decachlorobiphenyl | |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01536

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.5 | 0.3 | 0.3~ | 130- 0 |
| Decachlorobiphenyl | 0.9 | 0.4 | 0.4~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4611525 | -4.8 |
| Hexabromobiphenyl | 6506091 | 6596017 | 1.4 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16504915 | 1.7 |
| Hexabromobiphenyl | 8472750 | 10155427 | 19.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | CLP2 Col | | | | | |
|-----------------------------------|-------|-------|--------|--------|--------------------------------|-------|-------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.448 | 0.024 | 7624 | 2.432 | 1 | 6.623 | 0.017 | 12997 | 2.354 |
| Toxaphene | 2 | --- | --- | --- | 0.000 | 2 | 6.925 | -0.006 | 55107 | 6.689 |
| Toxaphene | 3 | 6.675 | 0.001 | 10052 | 4.542 | 3 | 7.160 | -0.005 | 20783 | 2.400 |
| Toxaphene | 4 | 6.874 | -0.004 | 17377 | 7.300 | 4 | 7.602 | -0.024 | 72783 | 10.572 |
| Toxaphene | 5 | 7.088 | 0.033 | 7153 | 1.972 | 5 | 7.669 | -0.001 | 62554 | 6.673 |
| Toxaphene | 6 | 7.410 | 0.035 | 9687 | 3.810 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (5 peaks): 4.011 | | | | | Total CLP2Ave (5 peaks): 5.738 | | | | | RPD = 35 |
| Corrected Ave (4 peaks): 3.189 | | | | | Corrected Ave (4 peaks): 4.529 | | | | | RPD = 35 |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-------------------------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | | | CLP2Ave: <3 Quant Peaks | | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

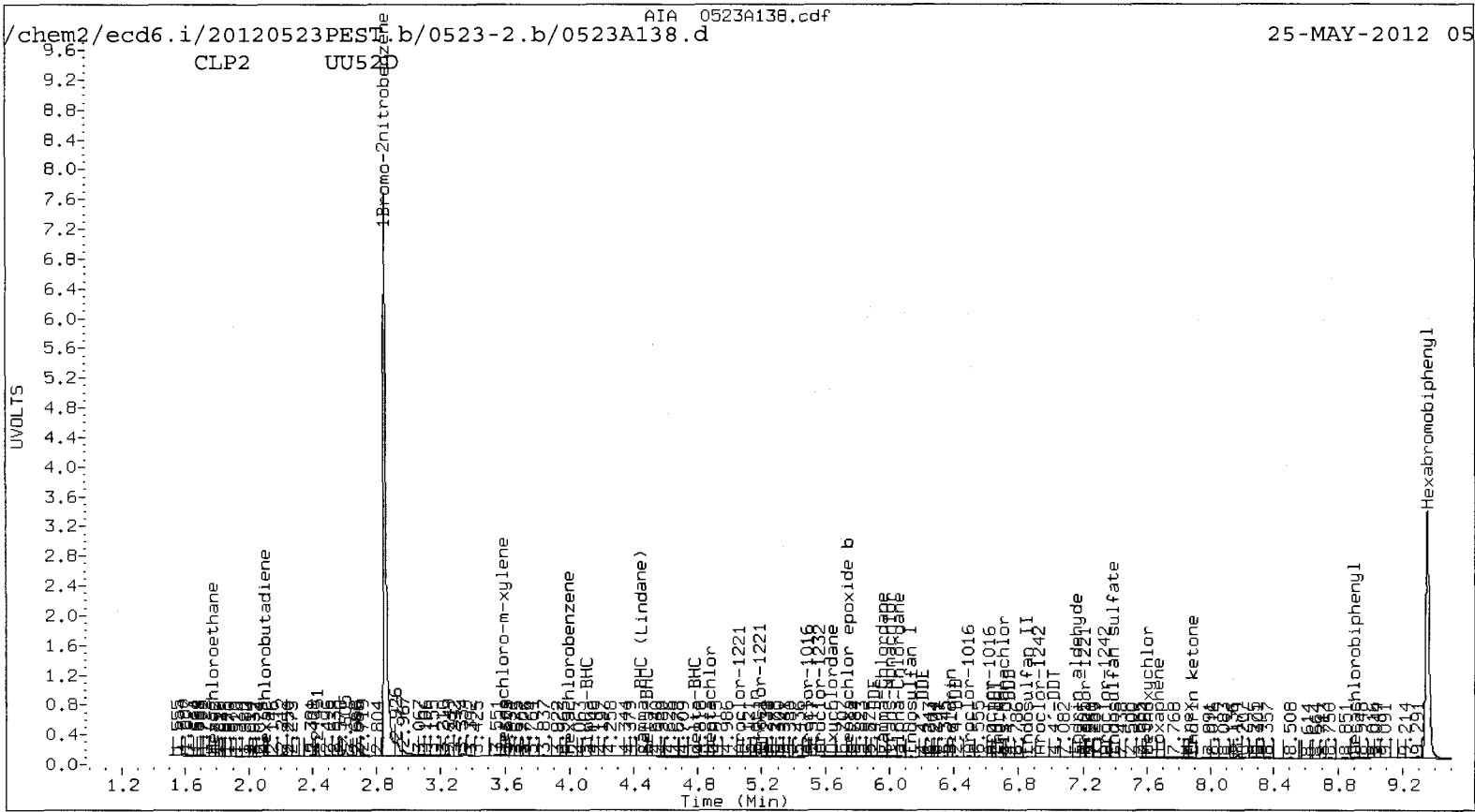
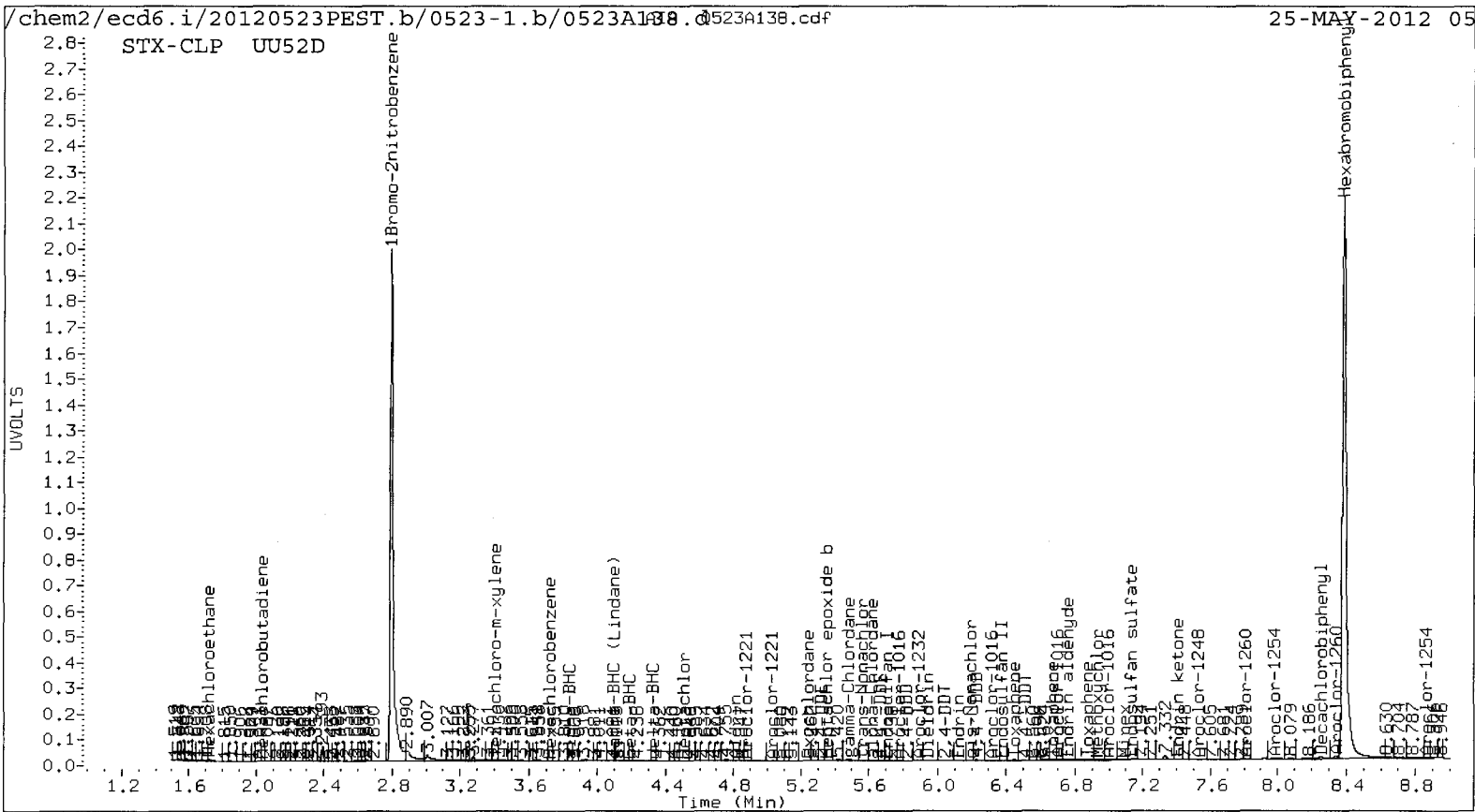
CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A139.d ARI ID: UU52E
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A139.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 05:57
 Compound Sublist: wpest Report Date: 05/25/2012 08:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4552402 | 2.854 | -0.001 | 16594344 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.843 | -0.004 | 3851 | 4.108 | 0.000 | 13164 | 0.0424 | 0.0466 | 9.4 | alpha-BHC |
| 4.194 | 0.012 | 2697 | 4.541 | 0.039 | 30995 | 0.0796 | 0.2851 | 112.7* | beta-BHC |
| 4.336 | -0.001 | 3369 | 4.783 | 0.001 | 47784 | 0.0508 | 0.2369 | 129.3* | delta-BHC |
| 4.119 | 0.013 | 7876 | 4.445 | 0.017 | 80821 | 0.1034 | 0.3352 | 105.7* | gamma-BHC (Lindane) |
| 4.510 | -0.008 | 6639 | 4.835 | -0.014 | 15676 | 0.0789 | 0.0646 | 20.0 | Heptachlor |
| 4.814 | 0.027 | 3996 | 5.153 | -0.017 | 25813 | 0.0518 | 0.1227 | 81.3* | Aldrin |
| 5.353 | 0.008 | 5027 | 5.743 | 0.010 | 11995 | 0.0732 | 0.0588 | 21.8 | Heptachlor epoxide b |
| 5.714 | -0.008 | 1439 | 6.123 | 0.006 | 19807 | 0.0155 | 0.1115 | 151.1* | Endosulfan I |
| 5.944 | -0.002 | 7339 | 6.371 | -0.006 | 18601 | 0.0994 | 0.1013 | 1.9 | Dieldrin |
| 5.672 | 0.002 | 2638 | 6.200 | -0.008 | 10821 | 0.0565 | 0.0667 | 16.5 | 4,4'-DDE |
| 6.129 | -0.034 | 1161 | 6.655 | -0.009 | 7879 | 0.0165 | 0.0452 | 93.2* | Endrin |
| 6.339 | -0.031 | 1398 | 6.848 | -0.009 | 43067 | 0.0204 | 0.2438 | 169.2* | Endosulfan II |
| 6.231 | 0.004 | 4982 | 6.741 | -0.008 | 37520 | 0.0897 | 0.2576 | 96.7* | 4,4'-DDD |
| 7.140 | 0.002 | 2641 | 7.382 | -0.023 | 27045 | 0.0437 | 0.1993 | 128.0* | Endosulfan sulfate |
| 6.450 | -0.033 | 3014 | 7.014 | -0.020 | 37187 | 0.0494 | 0.2593 | 136.0* | 4,4'-DDT |
| 6.879 | -0.044 | 17397 | 7.645 | 0.016 | 37623 | 0.5596 | 0.6004 | 7.0 | Methoxychlor |
| 7.410 | 0.022 | 7986 | 7.886 | 0.004 | 88959 | 0.1043 | 0.5092 | 132.0* | Endrin ketone |
| 6.757 | 0.009 | 3455 | 7.160 | 0.002 | 19723 | 0.0624 | 0.1466 | 80.6* | Endrin aldehyde |
| 5.485 | 0.015 | 11188 | 5.950 | 0.032 | 33899 | 0.1502 | 0.1791 | 17.5 | gamma-Chlordane |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 2.040 | -0.013 | 2446 | 2.104 | -0.008 | 16519 | 0.0244 | 0.0539 | 75.4* | Hexachlorobutadiene |
| 3.723 | 0.007 | 4165 | 3.992 | -0.003 | 15343 | 0.0665 | 0.0595 | 11.2 | Hexachlorobenzene |
| 5.242 | -0.010 | 13852 | 5.650 | 0.006 | 37247 | 0.2281 | 0.2296 | 0.7 | Oxychlorane |
| ---- | ---- | ---- | 5.907 | -0.002 | 12757 | 0.0000 | 0.1208 | --- | 2,4-DDE |
| 5.562 | -0.019 | 24151 | 6.001 | -0.005 | 85131 | 0.3109 | 0.4113 | 27.8 | trans-Nonachlor |
| 5.811 | -0.019 | 1663 | 6.423 | 0.024 | 47618 | 0.0422 | 0.4120 | 162.8* | 2,4-DDD |
| 6.038 | -0.031 | 1800 | 6.672 | -0.013 | 17005 | 0.0347 | 0.1354 | 118.5* | 2,4-DDT |
| 6.197 | -0.001 | 1974 | 6.700 | -0.034 | 14099 | 0.0230 | 0.0675 | 98.5* | cis-Nonachlor |
| 7.065 | 0.002 | 2672 | 7.851 | -0.012 | 59791 | 0.0469 | 0.4766 | 164.2* | Mirex |
| 8.387 | -0.002 | 6562955 | 9.351 | -0.004 | 10154249 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.001 | 753 | 1.770 | 0.000 | 13040 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.409 | 0.003 | 10477 | 3.585 | -0.003 | 27212 | 0.1555 | 0.1321 | 16.3 | Tetrachloro-m-xylene |
| 8.255 | 0.004 | 27347 | 8.906 | -0.003 | 21220 | 0.3709 | 0.1510 | 84.3* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01540

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.4 | 0.3 | 0.3~ | 130- 0 |
| Decachlorobiphenyl | 0.9 | 0.4 | 0.4~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 4552402 | -6.0 |
| Hexabromobiphenyl | 6506091 | 6562955 | 0.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 16594344 | 2.3 |
| Hexabromobiphenyl | 8472750 | 10154249 | 19.8 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | |
|-----------------------------------|-------|-------|-------------|--------|--------------------------------|-------|-------|----------|--------|-----------|--|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | |
| Toxaphene | 1 | 6.450 | 0.026 | 3014 | 0.966 | 1 | 6.619 | 0.012 | 23156 | 4.195 | |
| Toxaphene | 2 | --- | --- | --- | 0.000 | 2 | 6.924 | -0.007 | 60494 | 7.344 | |
| Toxaphene | 3 | 6.674 | 0.001 | 8247 | 3.745 | 3 | 7.160 | -0.006 | 19723 | 2.278 | |
| Toxaphene | 4 | 6.879 | 0.002 | 17397 | 7.345 | 4 | 7.645 | 0.019 | 37623 | 5.466 | |
| Toxaphene | 5 | 7.065 | 0.010 | 2672 | 0.740 | 5 | 7.668 | -0.002 | 72872 | 7.775 | |
| Toxaphene | 6 | 7.410 | 0.035 | 7986 | 3.157 | NS | --- | --- | --- | --- | |
| Total STX-CLPAve (5 peaks): 3.191 | | | | | Total CLP2Ave (5 peaks): 5.411 | | | | | RPD = 52* | |
| Corrected Ave (4 peaks): 2.152 | | | | | Corrected Ave (5 peaks): 5.411 | | | | | RPD = 86* | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

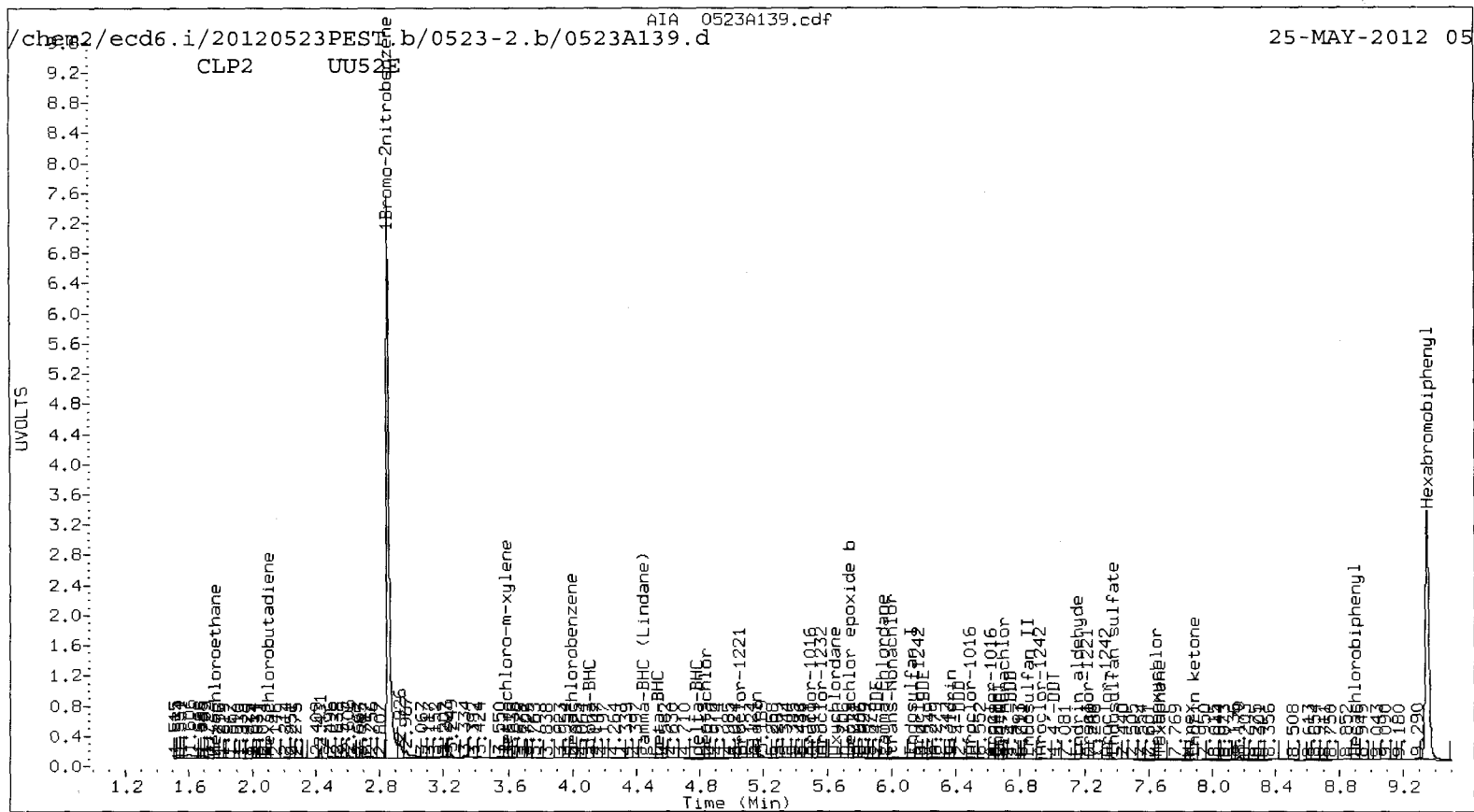
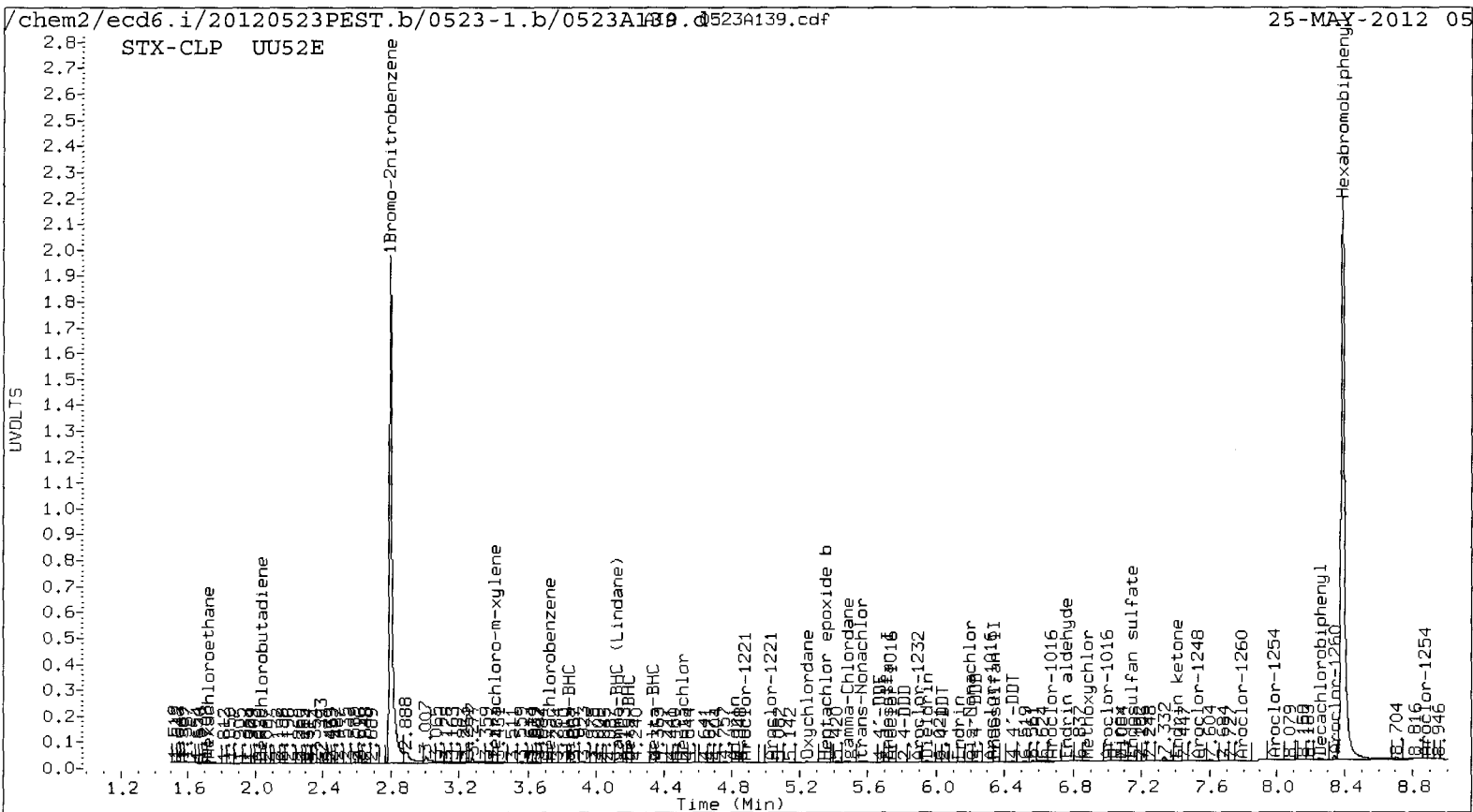
STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UU52 : 01544

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A140.d ARI ID: UU52F
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A140.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 06:15
 Compound Sublist: wpest Report Date: 05/25/2012 08:07
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor 1000.000

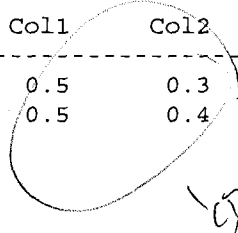
| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4643697 | 2.853 | -0.001 | 16826089 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.845 | -0.002 | 5388 | 4.108 | 0.000 | 27290 | 0.0582 | 0.0953 | 48.4* | alpha-BHC |
| 4.172 | -0.010 | 3249 | 4.485 | -0.017 | 26419 | 0.0940 | 0.2397 | 87.3* | beta-BHC |
| 4.329 | -0.008 | 2180 | 4.781 | -0.001 | 35693 | 0.0323 | 0.1745 | 137.6* | delta-BHC |
| 4.075 | -0.031 | 6691 | 4.441 | 0.013 | 18828 | 0.0861 | 0.0770 | 11.1 | gamma-BHC (Lindane) |
| 4.522 | 0.004 | 4027 | 4.821 | -0.028 | 27657 | 0.0469 | 0.1124 | 82.2* | Heptachlor |
| 4.808 | 0.021 | 3126 | 5.155 | -0.016 | 29222 | 0.0397 | 0.1370 | 110.1* | Aldrin |
| 5.357 | 0.011 | 2947 | 5.749 | 0.016 | 28615 | 0.0421 | 0.1383 | 106.7* | Heptachlor epoxide b |
| 5.711 | -0.011 | 1446 | 6.110 | -0.008 | 2777 | 0.0153 | 0.0154 | 0.8 | Endosulfan I |
| 5.943 | -0.003 | 9038 | 6.371 | -0.006 | 10773 | 0.1200 | 0.0579 | 69.9* | Dieldrin |
| 5.672 | 0.003 | 3155 | 6.204 | -0.005 | 7843 | 0.0662 | 0.0476 | 32.6 | 4,4'-DDE |
| 6.140 | -0.023 | 1447 | 6.655 | -0.009 | 17863 | 0.0202 | 0.1021 | 133.9* | Endrin |
| 6.375 | 0.004 | 2207 | 6.852 | -0.006 | 35054 | 0.0317 | 0.1977 | 144.8* | Endosulfan II |
| 6.231 | 0.004 | 7667 | 6.746 | -0.003 | 22227 | 0.1360 | 0.1520 | 11.1 | 4,4'-DDD |
| 7.139 | 0.001 | 1763 | 7.383 | -0.021 | 15551 | 0.0288 | 0.1142 | 119.5* | Endosulfan sulfate |
| 6.489 | 0.005 | 1658 | 7.019 | -0.015 | 31952 | 0.0268 | 0.2219 | 156.9* | 4,4'-DDT |
| 6.886 | -0.037 | 16929 | 7.647 | 0.018 | 12305 | 0.5366 | 0.1956 | 93.1* | Methoxychlor |
| 7.408 | 0.020 | 7826 | 7.887 | 0.005 | 77924 | 0.1008 | 0.4443 | 126.1* | Endrin ketone |
| 6.758 | 0.010 | 3416 | 7.158 | 0.000 | 15130 | 0.0608 | 0.1120 | 59.3* | Endrin aldehyde |
| 5.483 | 0.013 | 13083 | 5.955 | 0.037 | 36923 | 0.1722 | 0.1924 | 11.1 | gamma-Chlordane |
| --- | --- | --- | 6.069 | 0.011 | 16099 | 0.0000 | 0.0881 | --- | alpha-Chlordane |
| 2.041 | -0.013 | 3681 | 2.105 | -0.008 | 14776 | 0.0360 | 0.0475 | 27.7 | Hexachlorobutadiene |
| 3.725 | 0.008 | 5483 | 3.994 | -0.001 | 10871 | 0.0859 | 0.0416 | 69.5* | Hexachlorobenzene |
| 5.242 | -0.010 | 12368 | 5.650 | 0.006 | 30160 | 0.2007 | 0.1834 | 9.0 | Oxychlordane |
| 5.326 | -0.015 | 2700 | 5.899 | -0.010 | 6214 | 0.0622 | 0.0580 | 6.9 | 2,4-DDE |
| 5.562 | -0.019 | 24635 | 6.001 | -0.005 | 70732 | 0.3125 | 0.3404 | 8.5 | trans-Nonachlor |
| 5.812 | -0.018 | 2429 | 6.420 | 0.021 | 41272 | 0.0607 | 0.3557 | 141.7* | 2,4-DDD |
| 6.043 | -0.026 | 5866 | ---- | ---- | ---- | 0.1113 | 0.0000 | --- | 2,4-DDT |
| 6.199 | 0.001 | 2983 | 6.711 | -0.023 | 28549 | 0.0342 | 0.1362 | 119.8* | cis-Nonachlor |
| 7.061 | -0.002 | 5198 | ---- | ---- | ---- | 0.0899 | 0.0000 | --- | Mirex |
| 8.387 | -0.002 | 6659647 | 9.352 | -0.004 | 10193857 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.001 | 774 | 1.770 | 0.000 | 13433 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.408 | 0.002 | 13649 | 3.586 | -0.002 | 24642 | 0.1987 | 0.1180 | 50.9* | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 15144 | 8.907 | -0.002 | 20510 | 0.2024 | 0.1453 | 32.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01545

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.5 | 0.3 | 0.3~ | 130- 0 |
| Decachlorobiphenyl | 0.5 | 0.4 | 0.4~ | 130- 0 |



~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4643697 | -4.1 |
| Hexabromobiphenyl | 6506091 | 6659647 | 2.4 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16826089 | 3.7 |
| Hexabromobiphenyl | 8472750 | 10193857 | 20.3 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-----------------------------------|-------|-------|-------|--------|--------|--|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.451 | 0.027 | 3429 | 1.083 | 1 | 6.621 | 0.014 | 16361 | 2.953 |
| Toxaphene | 2 | 6.489 | 0.014 | 1658 | 0.684 | 2 | 6.925 | -0.006 | 54713 | 6.616 |
| Toxaphene | 3 | 6.674 | 0.000 | 6117 | 2.738 | 3 | 7.158 | -0.007 | 15130 | 1.740 |
| Toxaphene | 4 | 6.886 | 0.009 | 16929 | 7.044 | 4 | 7.647 | 0.022 | 12305 | 1.781 |
| Toxaphene | 5 | 7.061 | 0.005 | 5198 | 1.419 | 5 | 7.673 | 0.004 | 69981 | 7.438 |
| Toxaphene | 6 | 7.408 | 0.033 | 7826 | 3.048 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 2.669 | | | | | | Total CLP2Ave (5 peaks): 4.106 RPD = 42* | | | | |
| Corrected Ave (5 peaks): 1.794 | | | | | | Corrected Ave (4 peaks): 3.273 RPD = 58* | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

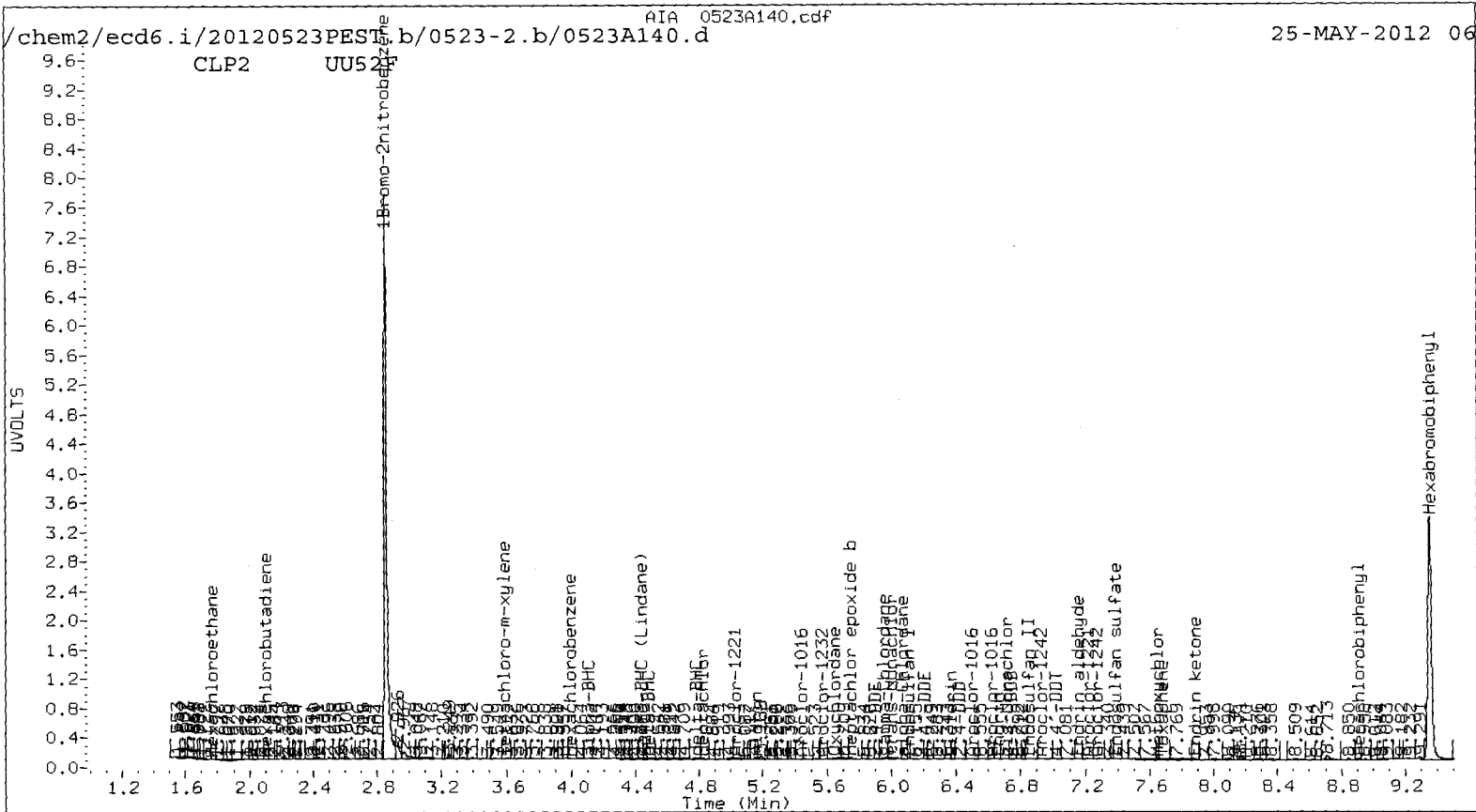
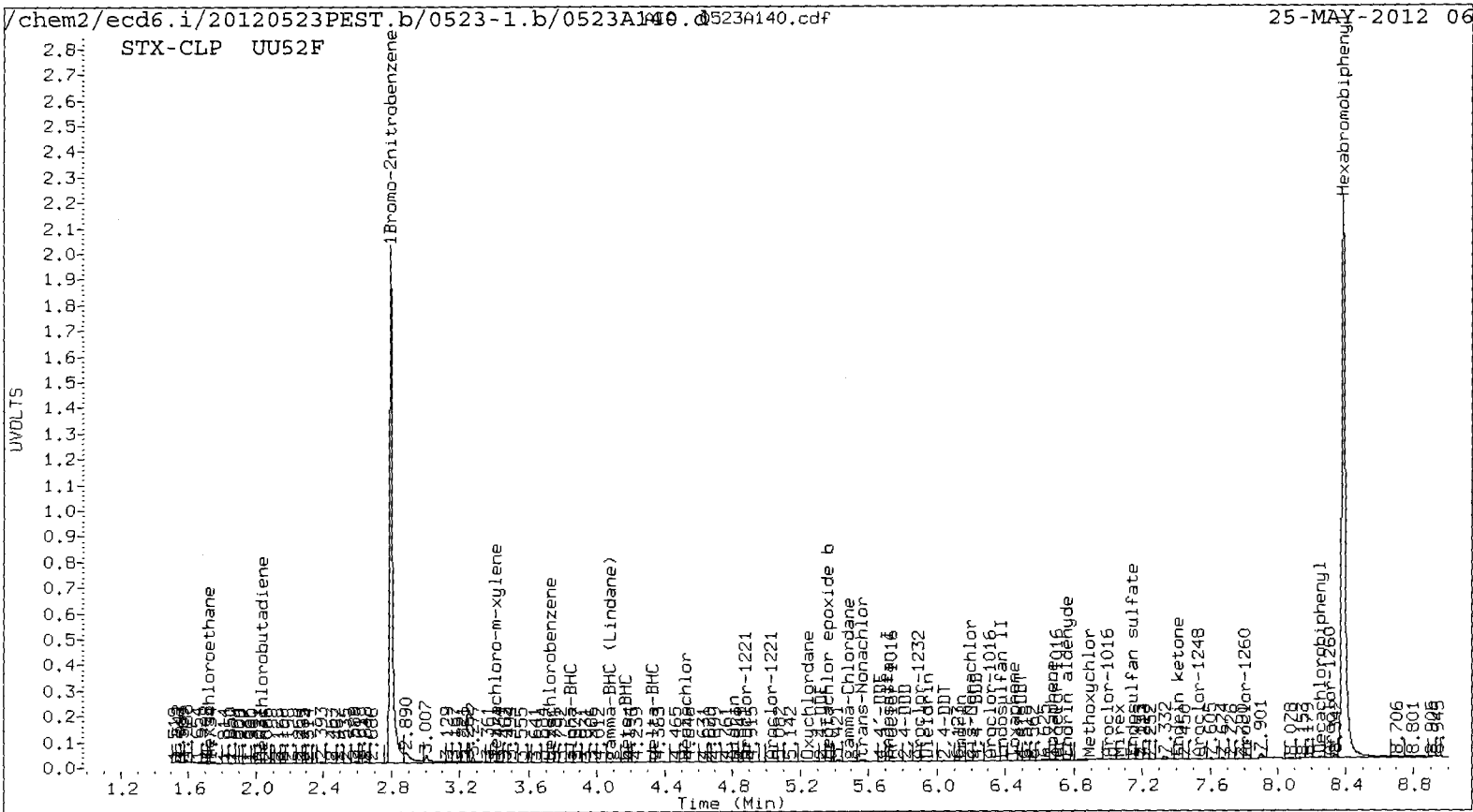
| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UUS2: 01540

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A144.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A144.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 07:26
 Compound Sublist: INDA Report Date: 05/29/2012 09:49
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 2.796 | 0.000 5028638 | 2.854 -0.001 19069062 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | 0.000 2116904 | 4.106 -0.002 6576226 | 21.0989 | 20.2524 | 4.1 | alpha-BHC |
| 4.184 | 0.002 752624 | 4.502 0.000 2369003 | 20.1110 | 18.9657 | 5.9 | beta-BHC |
| 4.340 | 0.003 1543084 | 4.782 -0.001 4674594 | 21.0802 | 20.1686 | 4.4 | delta-BHC |
| 4.106 | 0.000 1751234 | 4.426 -0.002 5467394 | 20.8072 | 19.7338 | 5.3 | gamma-BHC (Lindane) |
| 4.517 | -0.001 1937976 | 4.847 -0.002 5318327 | 20.8590 | 19.0742 | 8.9 | Heptachlor |
| 4.787 | -0.001 1788905 | 5.168 -0.003 4672957 | 20.9917 | 19.3361 | 8.2 | Aldrin |
| 5.345 | -0.001 1528792 | 5.730 -0.003 4533481 | 20.1456 | 19.3364 | 4.1 | Heptachlor epoxide b |
| 5.721 | 0.000 2007777 | 6.115 -0.002 3923458 | 19.6012 | 19.2263 | 1.9 | Endosulfan I |
| 5.946 | -0.001 3334314 | 6.375 -0.002 8176573 | 40.8842 | 38.7588 | 5.3 | Dieldrin |
| 5.672 | 0.003 2373843 | 6.208 0.000 7429971 | 46.0106 | 39.8235 | 14.4 | 4,4'-DDE |
| 6.162 | -0.001 3008597 | 6.662 -0.002 6819270 | 39.7946 | 36.1362 | 9.6 | Endrin |
| 6.370 | 0.000 2862405 | 6.855 -0.002 6855304 | 38.9024 | 35.8543 | 8.2 | Endosulfan II |
| 6.229 | 0.002 2467484 | 6.748 -0.001 5812679 | 41.4511 | 36.8603 | 11.7 | 4,4'-DDD |
| 7.137 | -0.001 2511883 | 7.402 -0.002 5330226 | 38.8301 | 36.2841 | 6.8 | Endosulfan sulfate |
| 6.484 | 0.001 2692681 | 7.033 -0.001 5847709 | 41.1886 | 37.6587 | 9.0 | 4,4'-DDT |
| 6.924 | 0.000 6300337 | 7.627 -0.002 11049799 | 189.1603 | 162.9007 | 14.9 | Methoxychlor |
| 7.388 | -0.001 3091964 | 7.879 -0.003 6896159 | 37.7029 | 36.4636 | 3.3 | Endrin ketone |
| 6.748 | 0.000 2274626 | 7.156 -0.002 5113133 | 38.3337 | 35.1116 | 8.8 | Endrin aldehyde |
| 5.470 | 0.000 1677424 | 5.916 -0.002 4322291 | 20.3855 | 19.8689 | 2.6 | gamma-Chlordane |
| 5.593 | 0.000 1439499 | 6.055 -0.002 4010259 | 18.3827 | 19.3703 | 5.2 | alpha-Chlordane |
| 2.052 | -0.001 2223455 | 2.111 -0.001 6693966 | 20.0519 | 18.9898 | 5.4 | Hexachlorobutadiene |
| 3.719 | 0.002 1350309 | 3.995 0.000 5737891 | 19.5233 | 19.3510 | 0.9 | Hexachlorobenzene |
| 8.389 | -0.004 7030803 | 9.353 -0.004 10992494 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 3.407 | 0.001 2958109 | 3.587 -0.001 9325221 | 39.7553 | 39.4073 | 0.9 | Tetrachloro-m-xylene |
| 8.249 | -0.001 2903219 | 8.906 -0.003 5643035 | 36.7576 | 37.0811 | 0.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 99.4 | 98.5 | 98.5~ | 115- 0 |
| Decachlorobiphenyl | 91.9 | 92.7 | 91.9~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

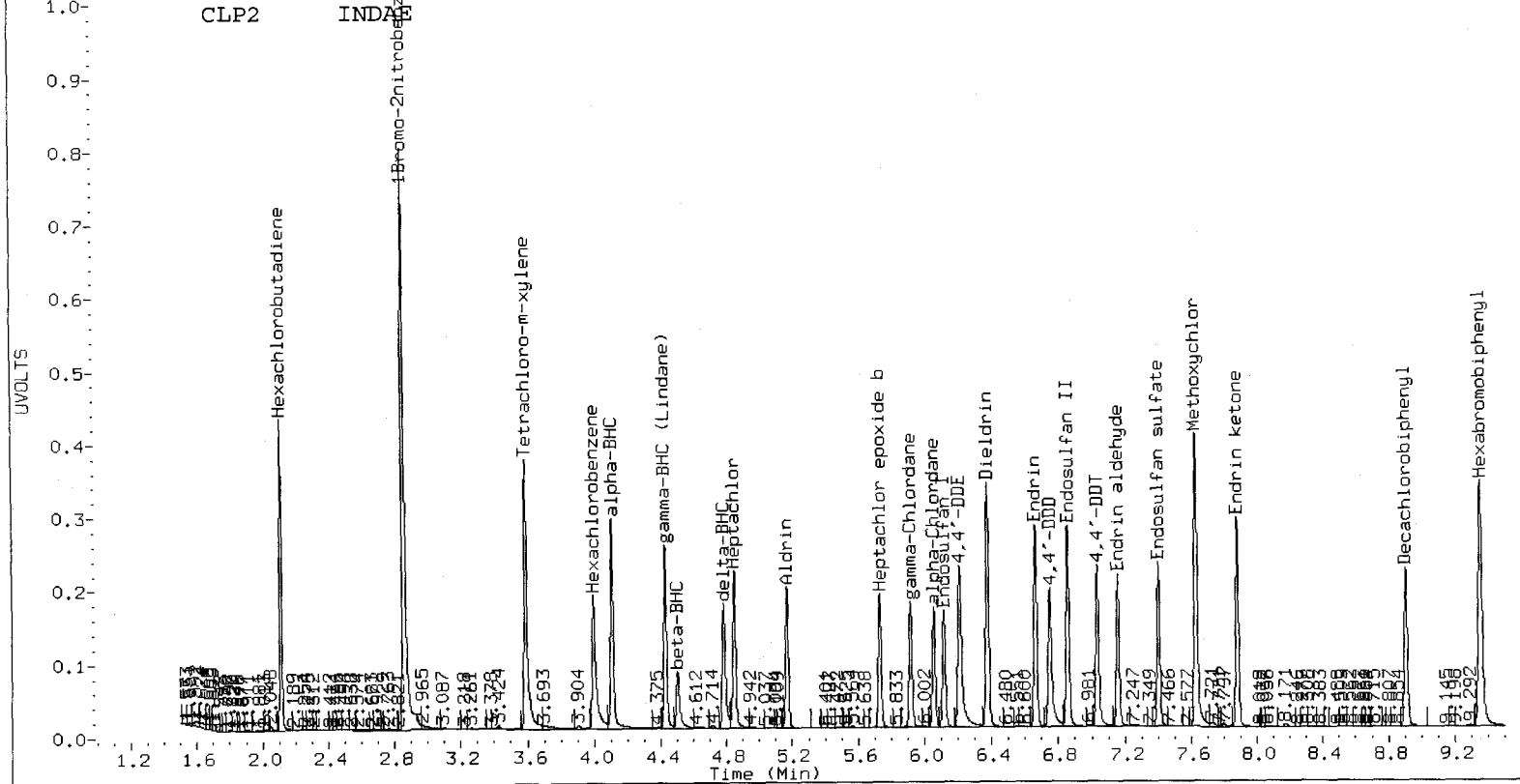
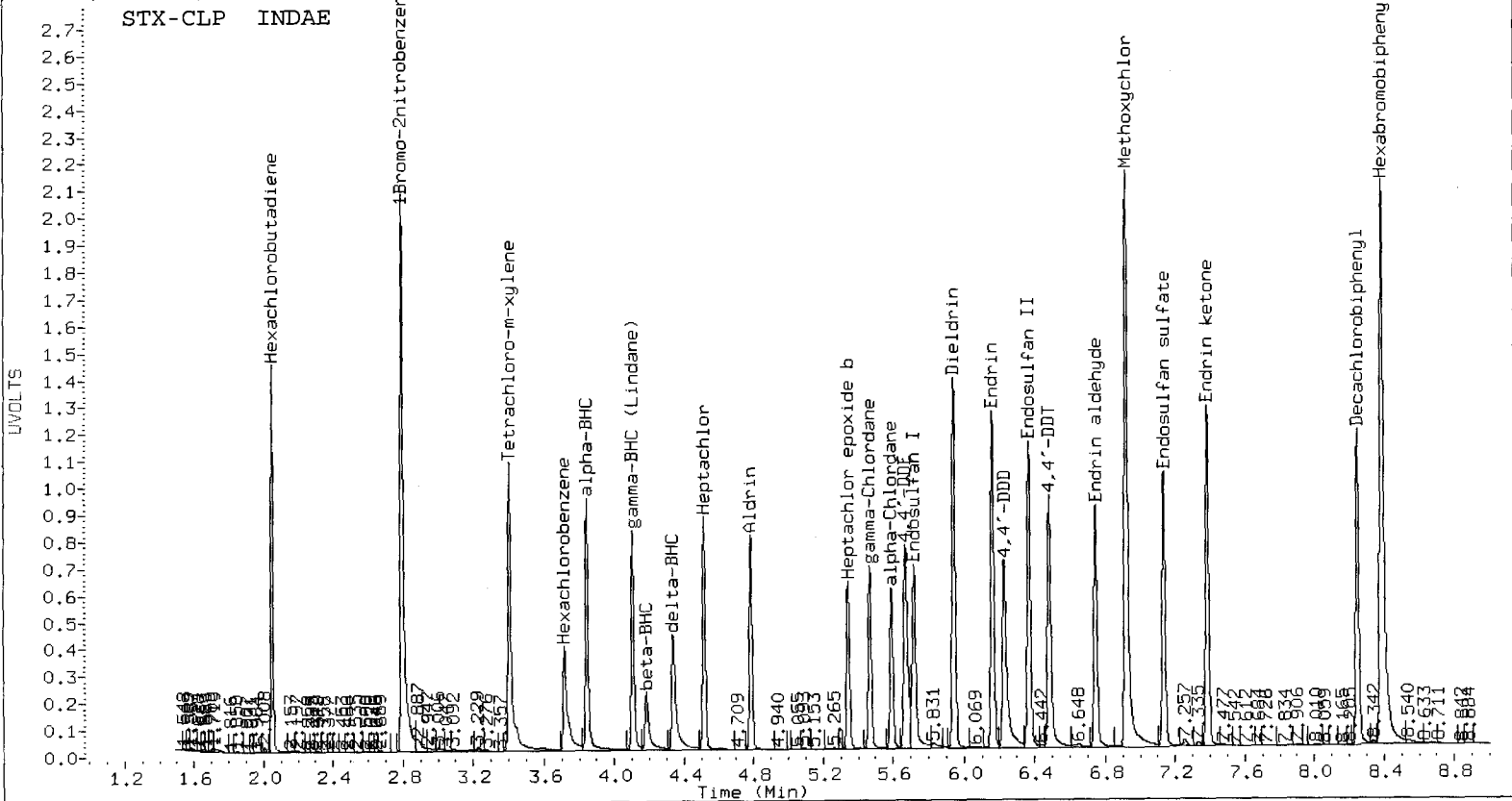
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5028638 | 3.9 |
| Hexabromobiphenyl | 6506091 | 7030803 | 8.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 19069062 | 17.5 |
| Hexabromobiphenyl | 8472750 | 10992494 | 29.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|---------|-------|----|-------------|--------|--------|-------|----|----------|--------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| ===== | | | | | | | | | | |



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A147.d ARI ID: UU52G
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A147.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 08:19
 Compound Sublist: wpest Report Date: 05/25/2012 12:35
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 100.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|--------|----------------------|
| 2.794 | -0.003 4585680 | 2.851 -0.003 14867921 | 2.851 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.844 | -0.003 110170 | 4.102 -0.006 407063 | 4.102 | 1.2041 | 1.6078 | 28.7 | alpha-BHC |
| 4.204 | 0.022 357435 | 4.502 0.000 78950 | 4.502 | 10.4737 | 0.8107 | 171.3* | beta-BHC |
| 4.325 | -0.012 26095 | 4.771 -0.011 97302 | 4.771 | 0.3909 | 0.5384 | 31.7 | delta-BHC |
| 4.103 | -0.004 14515 | 4.415 -0.014 698690 | 4.415 | 0.1891 | 3.2344 | 177.9* | gamma-BHC (Lindane) |
| 4.544 | 0.026 33596 | 4.851 0.002 29550 | 4.851 | 0.3965 | 0.1359 | 97.9* | Heptachlor |
| 4.775 | -0.013 5115 | 5.185 0.014 98253 | 5.185 | 0.0658 | 0.5214 | 155.2* | Aldrin |
| 5.382 | 0.036 25400 | 5.740 0.008 96438 | 5.740 | 0.3670 | 0.5276 | 35.9 | Heptachlor epoxide b |
| 5.731 | 0.009 28083 | 6.126 0.009 61317 | 6.126 | 0.3006 | 0.3854 | 24.7 | Endosulfan I |
| 5.942 | -0.004 17887 | 6.363 -0.014 627370 | 6.363 | 0.2405 | 3.8142 | 176.3* | Dieldrin |
| 5.673 | 0.003 58671 | 6.193 -0.015 53956 | 6.193 | 1.2470 | 0.3709 | 108.3* | 4,4'-DDE |
| 6.119 | -0.044 26085 | 6.647 -0.017 31716 | 6.647 | 0.3959 | 0.2090 | 61.8* | Endrin |
| 6.374 | 0.003 10019 | 6.856 -0.001 116032 | 6.856 | 0.1563 | 0.7545 | 131.4* | Endosulfan II |
| 6.223 | -0.005 197275 | 6.743 -0.006 193404 | 6.743 | 3.8028 | 1.5248 | 85.5* | 4,4'-DDD |
| 7.145 | 0.007 21543 | 7.430 0.026 10495 | 7.430 | 0.3821 | 0.0888 | 124.6* | Endosulfan sulfate |
| 6.483 | 0.000 52582 | 7.029 -0.004 222141 | 7.029 | 0.9230 | 1.7786 | 63.3* | 4,4'-DDT |
| 6.947 | 0.024 17544 | 7.652 0.023 90994 | 7.652 | 0.6044 | 1.6678 | 93.6* | Methoxychlor |
| 7.367 | -0.021 35178 | 7.909 0.027 12947 | 7.909 | 0.4922 | 0.0851 | 141.0* | Endrin ketone |
| 6.743 | -0.005 141705 | 7.160 0.002 42111 | 7.160 | 2.7404 | 0.3595 | 153.6* | Endrin aldehyde |
| 5.452 | -0.017 40070 | 5.947 0.029 83006 | 5.947 | 0.5340 | 0.4894 | 8.7 | gamma-Chlordane |
| 5.612 | 0.018 16358 | 6.066 0.009 91159 | 6.066 | 0.2291 | 0.5647 | 84.6* | alpha-Chlordane |
| 2.039 | -0.014 32978 | 2.097 -0.016 27946 | 2.097 | 0.3261 | 0.1017 | 104.9* | Hexachlorobutadiene |
| 3.719 | 0.002 18988 | 3.986 -0.008 51327 | 3.986 | 0.3011 | 0.2220 | 30.2 | Hexachlorobenzene |
| 5.205 | -0.047 238600 | 5.626 -0.017 621930 | 5.626 | 4.2078 | 4.2798 | 1.7 | Oxychlordane |
| 5.333 | -0.009 52527 | 5.889 -0.021 70620 | 5.889 | 1.3154 | 0.7464 | 55.2* | 2,4-DDE |
| 5.540 | -0.040 397868 | 5.986 -0.020 888078 | 5.986 | 5.4858 | 4.9272 | 10.7 | trans-Nonachlor |
| 5.826 | -0.004 8780 | ---- | ---- | 0.2386 | 0.0000 | --- | 2,4-DDD |
| 6.066 | -0.002 2585 | 6.681 -0.004 133203 | 6.681 | 0.0533 | 1.2183 | 183.2* | 2,4-DDT |
| ---- | ---- | 6.705 -0.029 104056 | 6.705 | 0.0000 | 0.5725 | --- | cis-Nonachlor |
| 7.040 | -0.023 58807 | 7.857 -0.006 186141 | 7.857 | 1.1057 | 1.7041 | 42.6* | Mirex |
| 8.384 | -0.009 6127046 | 9.350 -0.007 8841689 | 9.350 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.719 | -0.001 2219 | 1.769 -0.001 65220 | 1.769 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.405 | -0.001 190666 | 3.583 -0.005 100079 | 3.583 | 2.8100 | 0.5424 | 135.3* | Tetrachloro-m-xylene |
| 8.272 | 0.021 203300 | 8.907 -0.001 56565 | 8.907 | 2.9536 | 0.4621 | 145.9* | Decachlorobiphenyl |

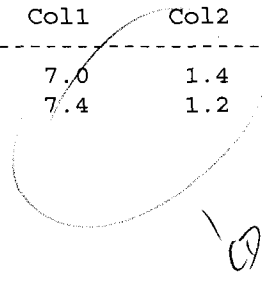
- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01553

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 7.0 | 1.4 | 1.4~ | 130- 0 |
| Decachlorobiphenyl | 7.4 | 1.2 | 1.2~ | 130- 0 |

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4585680 | -5.3 |
| Hexabromobiphenyl | 6506091 | 6127046 | -5.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 14867921 | -8.4 |
| Hexabromobiphenyl | 8472750 | 8841689 | 4.4 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | | |
|-----------------------------|-------|-------|--------|--------|---------|--------------------------|-------|--------|--------|--------|------------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount | |
| Toxaphene | 1 | 6.433 | 0.009 | 42829 | 14.708 | 1 | 6.610 | 0.004 | 115567 | 24.044 | |
| Toxaphene | 2 | 6.483 | 0.008 | 52582 | 23.574 | 2 | 6.945 | 0.013 | 77569 | 10.815 | |
| Toxaphene | 3 | 6.631 | -0.043 | 166224 | 80.851 | 3 | 7.160 | -0.005 | 42111 | 5.585 | |
| Toxaphene | 4 | 6.856 | -0.021 | 307557 | 139.092 | 4 | 7.652 | 0.027 | 90994 | 15.181 | |
| Toxaphene | 5 | 7.040 | -0.016 | 58807 | 17.448 | 5 | --- | --- | --- | 0.000 | |
| Toxaphene | 6 | 7.367 | -0.008 | 35178 | 14.892 | NS | --- | --- | --- | ---- | |
| Total STX-CLPAve (6 peaks): | | | | | 48.427 | Total CLP2Ave (4 peaks): | | | | 13.906 | RPD = 111* |
| Corrected Ave (5 peaks): | | | | | 30.295 | Corrected Ave (3 peaks): | | | | 10.527 | RPD = 97* |

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|---|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | |
|--------------|---|-----|-----|-------|----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | 0.000 | 1 | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | 0.000 | 2 | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | 0.000 | 3 | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | 0.000 | 4 | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | 0.000 | 5 | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | 0.000 | NS | --- | --- | ---- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A148.d ARI ID: UU52H
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A148.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 08:37
 Compound Sublist: wpest Report Date: 05/25/2012 12:35
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|--------|----------------------|
| 2.796 | -0.001 4472999 | 2.853 -0.001 15828133 | 2.853 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.844 | -0.002 10562 | 4.106 -0.002 14773 | 4.106 | 0.1183 | 0.0548 | 73.4* | alpha-BHC |
| 4.167 | -0.016 2583 | 4.539 0.037 5307 | 4.539 | 0.0776 | 0.0512 | 41.0* | beta-BHC |
| 4.343 | 0.006 1066 | 4.782 0.000 11297 | 4.782 | 0.0164 | 0.0587 | 112.8* | delta-BHC |
| 4.106 | 0.000 2856 | 4.443 0.014 36733 | 4.443 | 0.0381 | 0.1597 | 122.9* | gamma-BHC (Lindane) |
| 4.523 | 0.005 4826 | 4.844 -0.005 4863 | 4.844 | 0.0584 | 0.0210 | 94.2* | Heptachlor |
| --- | --- | 5.154 -0.017 13700 | 5.154 | 0.0000 | 0.0683 | --- | Aldrin |
| 5.356 | 0.010 2734 | 5.748 0.016 7193 | 5.748 | 0.0405 | 0.0370 | 9.1 | Heptachlor epoxide b |
| 5.740 | 0.018 3030 | 6.134 0.017 13344 | 6.134 | 0.0333 | 0.0788 | 81.3* | Endosulfan I |
| 5.945 | -0.001 6900 | 6.372 -0.005 19629 | 6.372 | 0.0951 | 0.1121 | 16.4 | Dieldrin |
| 5.671 | 0.001 7150 | 6.205 -0.003 24298 | 6.205 | 0.1558 | 0.1569 | 0.7 | 4,4'-DDE |
| 6.120 | -0.043 5750 | 6.654 -0.010 12512 | 6.654 | 0.0869 | 0.0780 | 10.8 | Endrin |
| 6.371 | 0.000 4653 | 6.857 0.000 19305 | 6.857 | 0.0723 | 0.1188 | 48.7* | Endosulfan II |
| 6.230 | 0.003 14195 | 6.746 -0.003 36323 | 6.746 | 0.2726 | 0.2711 | 0.6 | 4,4'-DDD |
| 7.134 | -0.004 15384 | 7.384 -0.021 15034 | 7.384 | 0.2719 | 0.1204 | 77.2* | Endosulfan sulfate |
| 6.485 | 0.001 4702 | 7.031 -0.003 27334 | 7.031 | 0.0822 | 0.2072 | 86.4* | 4,4'-DDT |
| 6.922 | -0.001 5499 | 7.626 -0.003 14915 | 7.626 | 0.1887 | 0.2588 | 31.3 | Methoxychlor |
| 7.409 | 0.021 6755 | 7.884 0.002 37195 | 7.884 | 0.0942 | 0.2315 | 84.3* | Endrin ketone |
| 6.764 | 0.016 5894 | 7.156 -0.002 9451 | 7.156 | 0.1135 | 0.0764 | 39.1 | Endrin aldehyde |
| 5.473 | 0.004 7952 | 5.938 0.020 138578 | 5.938 | 0.1086 | 0.7675 | 150.4* | gamma-Chlordane |
| --- | --- | 6.053 -0.004 22237 | 6.053 | 0.0000 | 0.1294 | --- | alpha-Chlordane |
| 2.040 | -0.013 3098 | 2.104 -0.008 13231 | 2.104 | 0.0314 | 0.0452 | 36.0 | Hexachlorobutadiene |
| 3.723 | 0.007 3798 | 3.992 -0.003 11411 | 3.992 | 0.0617 | 0.0464 | 28.4 | Hexachlorobenzene |
| 5.250 | -0.002 9211 | 5.648 0.004 11830 | 5.648 | 0.1618 | 0.0765 | 71.6* | Oxychlordane |
| --- | --- | --- | --- | 0.0000 | 0.0000 | --- | 2,4-DDE |
| 5.572 | -0.009 18124 | 6.003 -0.004 49026 | 6.003 | 0.2489 | 0.2575 | 3.4 | trans-Nonachlor |
| 5.830 | 0.000 3029 | 6.420 0.021 33468 | 6.420 | 0.0820 | 0.3148 | 117.3* | 2,4-DDD |
| 6.061 | -0.007 8351 | 6.676 -0.009 7354 | 6.676 | 0.1716 | 0.0637 | 91.8* | 2,4-DDT |
| 6.199 | 0.001 4178 | 6.708 -0.026 9113 | 6.708 | 0.0518 | 0.0475 | 8.8 | cis-Nonachlor |
| 7.066 | 0.003 21098 | 7.849 -0.014 23619 | 7.849 | 0.3952 | 0.2047 | 63.5* | Mirex |
| 8.387 | -0.006 6150437 | 9.351 -0.006 9340210 | 9.351 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.719 | 0.000 909 | 1.769 0.000 13179 | 1.769 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.408 | 0.002 11126 | 3.586 -0.001 25844 | 3.586 | 0.1681 | 0.1316 | 24.4 | Tetrachloro-m-xylene |
| 8.251 | 0.000 16004 | 8.905 -0.004 16391 | 8.905 | 0.2316 | 0.1268 | 58.5* | Decachlorobiphenyl |

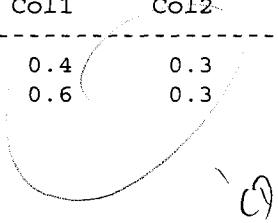
* Indicates RPD > 40%
 A Indicates Peak Height was used for Column 1 quantitation instead of Area
 B Indicates Peak Height was used for Column 2 quantitation instead of Area
 M Indicates Column 1 peak was manually integrated
 N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52: 01558

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.4 | 0.3 | 0.3~ | 130- 0 |
| Decachlorobiphenyl | 0.6 | 0.3 | 0.3~ | 130- 0 |

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4472999 | -7.6 |
| Hexabromobiphenyl | 6506091 | 6150437 | -5.5 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 15828133 | -2.5 |
| Hexabromobiphenyl | 8472750 | 9340210 | 10.2 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012
 <- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-----------------------------------|-------|-------|-------|--------|--------------------------------|----------|-------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.457 | 0.033 | 5905 | 2.020 | 1 | 6.625 | 0.019 | 12878 | 2.536 |
| Toxaphene | 2 | 6.485 | 0.010 | 4702 | 2.100 | 2 | 6.923 | -0.008 | 57284 | 7.560 |
| Toxaphene | 3 | 6.674 | 0.001 | 4762 | 2.307 | 3 | 7.156 | -0.009 | 9451 | 1.186 |
| Toxaphene | 4 | 6.890 | 0.013 | 10172 | 4.583 | 4 | 7.626 | 0.001 | 14915 | 2.356 |
| Toxaphene | 5 | 7.066 | 0.011 | 21098 | 6.236 | 5 | 7.675 | 0.006 | 25141 | 2.916 |
| Toxaphene | 6 | 7.409 | 0.034 | 6755 | 2.849 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 3.349 | | | | | Total CLP2Ave (5 peaks): 3.311 | | | | | RPD = 1 |
| Corrected Ave (5 peaks): 2.772 | | | | | Corrected Ave (4 peaks): 2.249 | | | | | RPD = 21 |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A149.d ARI ID: UU52I
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A149.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 08:55
 Compound Sublist: wpest Report Date: 05/25/2012 12:35
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 5000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | 0.000 | 4586393 | 2.854 | 0.000 | 16288145 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| ---- | | | 4.105 | -0.003 | 6855 | 0.0000 | 0.0247 | --- | alpha-BHC |
| ---- | | | 4.494 | -0.008 | 15090 | 0.0000 | 0.1414 | --- | beta-BHC |
| ---- | | | 4.777 | -0.006 | 3901 | 0.0000 | 0.0197 | --- | delta-BHC |
| ---- | | | 4.429 | 0.000 | 5534 | 0.0000 | 0.0234 | --- | gamma-BHC (Lindane) |
| 4.559 | 0.041 | 1593 | 4.877 | 0.028 | 2751 | 0.0188 | 0.0116 | 47.8* | Heptachlor |
| 4.769 | -0.018 | 3756 | 5.189 | 0.018 | 25042 | 0.0483 | 0.1213 | 86.1* | Aldrin |
| 5.358 | 0.012 | 1277 | 5.713 | -0.019 | 20465 | 0.0185 | 0.1022 | 138.8* | Heptachlor epoxide b |
| ---- | | | 6.134 | 0.016 | 22033 | 0.0000 | 0.1264 | --- | Endosulfan I |
| 5.944 | -0.002 | 2674 | 6.370 | -0.007 | 12310 | 0.0359 | 0.0683 | 62.1* | Dieldrin |
| ---- | | | 6.215 | 0.006 | 13286 | 0.0000 | 0.0834 | --- | 4,4'-DDE |
| 6.153 | -0.010 | 2502 | 6.659 | -0.005 | 24268 | 0.0349 | 0.1441 | 122.1* | Endrin |
| 6.371 | 0.000 | 4214 | 6.860 | 0.003 | 16209 | 0.0603 | 0.0950 | 44.6* | Endosulfan II |
| 6.250 | 0.022 | 7154 | 6.747 | -0.001 | 23162 | 0.1266 | 0.1646 | 26.1 | 4,4'-DDD |
| 7.089 | -0.049 | 1806 | 7.398 | -0.006 | 5650 | 0.0294 | 0.0431 | 37.7 | Endosulfan sulfate |
| 6.487 | 0.004 | 1483 | 7.017 | -0.017 | 20270 | 0.0239 | 0.1463 | 143.8* | 4,4'-DDT |
| 6.925 | 0.002 | 8751 | 7.620 | -0.009 | 23066 | 0.2768 | 0.3811 | 31.7 | Methoxychlor |
| 7.410 | 0.022 | 11329 | 7.884 | 0.003 | 32853 | 0.1456 | 0.1947 | 28.9 | Endrin ketone |
| 6.751 | 0.002 | 3054 | 7.157 | -0.001 | 9005 | 0.0542 | 0.0693 | 24.4 | Endrin aldehyde |
| 5.504 | 0.034 | 1449 | 5.922 | 0.004 | 8010 | 0.0193 | 0.0431 | 76.3* | gamma-Chlordane |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | alpha-Chlordane |
| 2.067 | 0.013 | 5578 | 2.106 | -0.007 | 7277 | 0.0552 | 0.0242 | 78.1* | Hexachlorobutadiene |
| ---- | | | 3.996 | 0.002 | 6337 | 0.0000 | 0.0250 | --- | Hexachlorobenzene |
| ---- | | | 5.628 | -0.015 | 2079 | 0.0000 | 0.0131 | --- | Oxychlordane |
| ---- | | | 5.882 | -0.027 | 3070 | 0.0000 | 0.0296 | --- | 2,4-DDE |
| 5.572 | -0.008 | 1278 | 6.018 | 0.012 | 34996 | 0.0162 | 0.1750 | 166.1* | trans-Nonachlor |
| 5.822 | -0.008 | 1073 | 6.421 | 0.022 | 28205 | 0.0268 | 0.2526 | 161.7* | 2,4-DDD |
| 6.074 | 0.005 | 2170 | ---- | | | 0.0411 | 0.0000 | --- | 2,4-DDT |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | cis-Nonachlor |
| 7.068 | 0.006 | 3567 | 7.855 | -0.008 | 33051 | 0.0616 | 0.2727 | 126.3* | Mirex |
| 8.389 | -0.004 | 6672960 | 9.352 | -0.005 | 9809409 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.001 | 810 | 1.770 | 0.000 | 13620 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.408 | 0.002 | 4208 | 3.587 | -0.001 | 3581 | 0.0620 | 0.0177 | 111.1* | Tetrachloro-m-xylene |
| 8.250 | 0.000 | 10260 | 8.905 | -0.004 | 4567 | 0.1369 | 0.0336 | 121.1* | Decachlorobiphenyl |

* Indicates RPD > 40%

- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01563

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.2 | 0.0 | 0.0~ | 130- 0 |
| Decachlorobiphenyl | 0.3 | 0.1 | 0.1~ | 130- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4586393 | -5.3 |
| Hexabromobiphenyl | 6506091 | 6672960 | 2.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16288145 | 0.4 |
| Hexabromobiphenyl | 8472750 | 9809409 | 15.8 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-----------------------------------|-------|-------|-------|--------|--------|--|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.452 | 0.028 | 1492 | 0.470 | 1 | 6.574 | -0.033 | 7866 | 1.475 |
| Toxaphene | 2 | 6.487 | 0.012 | 1483 | 0.610 | 2 | 6.927 | -0.004 | 51857 | 6.517 |
| Toxaphene | 3 | 6.706 | 0.033 | 3138 | 1.401 | 3 | 7.157 | -0.009 | 9005 | 1.076 |
| Toxaphene | 4 | 6.925 | 0.048 | 8751 | 3.634 | 4 | 7.620 | -0.005 | 23066 | 3.469 |
| Toxaphene | 5 | 7.068 | 0.013 | 3567 | 0.972 | 5 | 7.663 | -0.006 | 11281 | 1.246 |
| Toxaphene | 6 | 7.410 | 0.035 | 11329 | 4.404 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 1.915 | | | | | | Total CLP2Ave (5 peaks): 2.757 RPD = 36 | | | | |
| Corrected Ave (4 peaks): 0.864 | | | | | | Corrected Ave (4 peaks): 1.817 RPD = 71* | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1248 1 --- 0.000
Aroclor-1248 2 --- 0.000
Aroclor-1248 3 --- 0.000
Aroclor-1248 4 --- 0.000
Aroclor-1248 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1254 1 --- 0.000
Aroclor-1254 2 --- 0.000
Aroclor-1254 3 --- 0.000
Aroclor-1254 4 --- 0.000
Aroclor-1254 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1260 1 --- 0.000
Aroclor-1260 2 --- 0.000
Aroclor-1260 3 --- 0.000
Aroclor-1260 4 --- 0.000
Aroclor-1260 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1262 1 --- 0.000
Aroclor-1262 2 --- 0.000
Aroclor-1262 3 --- 0.000
Aroclor-1262 4 --- 0.000
Aroclor-1262 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Aroclor-1268 1 --- 0.000
Aroclor-1268 2 --- 0.000
Aroclor-1268 3 --- 0.000
Aroclor-1268 4 --- 0.000
Aroclor-1268 5 --- 0.000

1 --- 0.000
2 --- 0.000
3 --- 0.000
4 --- 0.000
5 --- 0.000

STX-CLPAve: <3 Quant Peaks

CLP2Ave: <3 Quant Peaks

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A151.d ARI ID: UU52J
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A151.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 09:31
 Compound Sublist: wpest Report Date: 05/25/2012 12:35
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1000.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|---------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 2.796 | -0.001 | 4668866 | 2.853 | -0.001 | 16138891 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.843 | -0.004 | 1653 | 4.106 | -0.002 | 7968 | 0.0177 | 0.0290 | 48.1* | alpha-BHC |
| 4.170 | -0.012 | 1664 | 4.486 | -0.016 | 25279 | 0.0479 | 0.2391 | 133.3* | beta-BHC |
| 4.328 | -0.009 | 1189 | 4.777 | -0.005 | 39608 | 0.0175 | 0.2019 | 168.1* | delta-BHC |
| 4.111 | 0.005 | 4962 | 4.450 | 0.022 | 48358 | 0.0635 | 0.2062 | 105.8* | gamma-BHC (Lindane) |
| 4.509 | -0.009 | 5881 | 4.824 | -0.026 | 44641 | 0.0682 | 0.1892 | 94.0* | Heptachlor |
| 4.811 | 0.023 | 3752 | 5.160 | -0.010 | 30075 | 0.0474 | 0.1470 | 102.5* | Aldrin |
| 5.354 | 0.008 | 4409 | 5.743 | 0.011 | 23574 | 0.0626 | 0.1188 | 62.0* | Heptachlor epoxide b |
| 5.711 | -0.011 | 3505 | 6.131 | 0.014 | 19457 | 0.0369 | 0.1127 | 101.4* | Endosulfan I |
| 5.945 | -0.001 | 14242 | 6.371 | -0.006 | 15734 | 0.1881 | 0.0881 | 72.4* | Dieldrin |
| 5.669 | -0.001 | 2995 | 6.203 | -0.005 | 21182 | 0.0625 | 0.1341 | 72.8* | 4,4'-DDE |
| 6.119 | -0.044 | 7091 | 6.655 | -0.009 | 42938 | 0.0995 | 0.2550 | 87.7* | Endrin |
| 6.375 | 0.005 | 6355 | 6.852 | -0.005 | 39270 | 0.0917 | 0.2302 | 86.1* | Endosulfan II |
| 6.251 | 0.024 | 11253 | 6.738 | -0.011 | 39449 | 0.2006 | 0.2804 | 33.1 | 4,4'-DDD |
| 7.139 | 0.001 | 4301 | 7.386 | -0.018 | 12319 | 0.0706 | 0.0940 | 28.5 | Endosulfan sulfate |
| 6.487 | 0.003 | 4243 | 7.019 | -0.015 | 34564 | 0.0689 | 0.2495 | 113.4* | 4,4'-DDT |
| 6.935 | 0.012 | 8446 | 7.601 | -0.028 | 34745 | 0.2691 | 0.5741 | 72.3* | Methoxychlor |
| 7.410 | 0.022 | 10508 | 7.888 | 0.006 | 39266 | 0.1360 | 0.2327 | 52.5* | Endrin ketone |
| 6.757 | 0.008 | 7916 | 7.161 | 0.003 | 20586 | 0.1416 | 0.1584 | 11.2 | Endrin aldehyde |
| 5.490 | 0.020 | 14219 | 5.913 | -0.006 | 15257 | 0.1861 | 0.0829 | 76.8* | gamma-Chlordane |
| 5.617 | 0.023 | 6754 | 6.063 | 0.005 | 21511 | 0.0929 | 0.1228 | 27.7 | alpha-Chlordane |
| 2.041 | -0.013 | 2410 | 2.105 | -0.007 | 6613 | 0.0234 | 0.0222 | 5.5 | Hexachlorobutadiene |
| 3.724 | 0.007 | 3257 | 3.993 | -0.001 | 16774 | 0.0507 | 0.0668 | 27.4 | Hexachlorobenzene |
| 5.266 | 0.015 | 11394 | 5.626 | -0.017 | 7950 | 0.1859 | 0.0504 | 114.7* | Oxychlordane |
| 5.326 | -0.015 | 1641 | 5.871 | -0.038 | 15935 | 0.0380 | 0.1552 | 121.3* | 2,4-DDE |
| 5.560 | -0.021 | 4989 | 6.005 | -0.001 | 47423 | 0.0636 | 0.2372 | 115.4* | trans-Nonachlor |
| 5.813 | -0.017 | 5078 | 6.428 | 0.029 | 58673 | 0.1276 | 0.5255 | 121.8* | 2,4-DDD |
| 6.044 | -0.024 | 13155 | ---- | ---- | ---- | 0.2510 | 0.0000 | --- | 2,4-DDT |
| 6.199 | 0.002 | 4551 | 6.708 | -0.026 | 19597 | 0.0524 | 0.0972 | 59.8* | cis-Nonachlor |
| 7.090 | 0.027 | 8053 | 7.848 | -0.015 | 21012 | 0.1400 | 0.1734 | 21.3 | Mirex |
| 8.387 | -0.006 | 6624396 | 9.351 | -0.006 | 9808477 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl |
| 1.720 | 0.000 | 1143 | 1.770 | 0.000 | 13274 | 0.0000 | 0.0000 | --- | Hexachloroethane |
| 3.408 | 0.002 | 10554 | 3.586 | -0.002 | 56038 | 0.1528 | 0.2798 | 58.7* | Tetrachloro-m-xylene |
| 8.262 | 0.012 | 30274 | 8.905 | -0.003 | 18886 | 0.4068 | 0.1391 | 98.1* | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

UU52:01568

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 0.4 | 0.7 | 0.4~ | 130- 0 |
| Decachlorobiphenyl | 1.0 | 0.3 | 0.3~ | 130- 0 |

~ Indicates recovery outside QC Limits

9

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 4841592 | 4668866 | -3.6 |
| Hexabromobiphenyl | 6506091 | 6624396 | 1.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 16226991 | 16138891 | -0.5 |
| Hexabromobiphenyl | 8472750 | 9808477 | 15.8 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| STX-CLP Col | | | | | | CLP2 Col | | | | |
|-----------------------------------|-------|-------|--------|--------|--------|---|-------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| Toxaphene | 1 | 6.454 | 0.030 | 8333 | 2.647 | 1 | 6.624 | 0.017 | 15810 | 2.965 |
| Toxaphene | 2 | 6.487 | 0.012 | 4243 | 1.759 | 2 | 6.924 | -0.007 | 74490 | 9.362 |
| Toxaphene | 3 | 6.673 | -0.001 | 9781 | 4.400 | 3 | 7.161 | -0.004 | 20586 | 2.461 |
| Toxaphene | 4 | 6.873 | -0.005 | 20145 | 8.427 | 4 | 7.601 | -0.024 | 34745 | 5.225 |
| Toxaphene | 5 | 7.090 | 0.034 | 8053 | 2.210 | 5 | 7.675 | 0.006 | 17864 | 1.973 |
| Toxaphene | 6 | 7.410 | 0.035 | 10508 | 4.114 | NS | --- | --- | --- | --- |
| Total STX-CLPAve (6 peaks): 3.926 | | | | | | Total CLP2Ave (5 peaks): 4.397 RPD = 11 | | | | |
| Corrected Ave (5 peaks): 3.026 | | | | | | Corrected Ave (4 peaks): 3.156 RPD = 4 | | | | |

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1016 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1016 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1221 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1221 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |

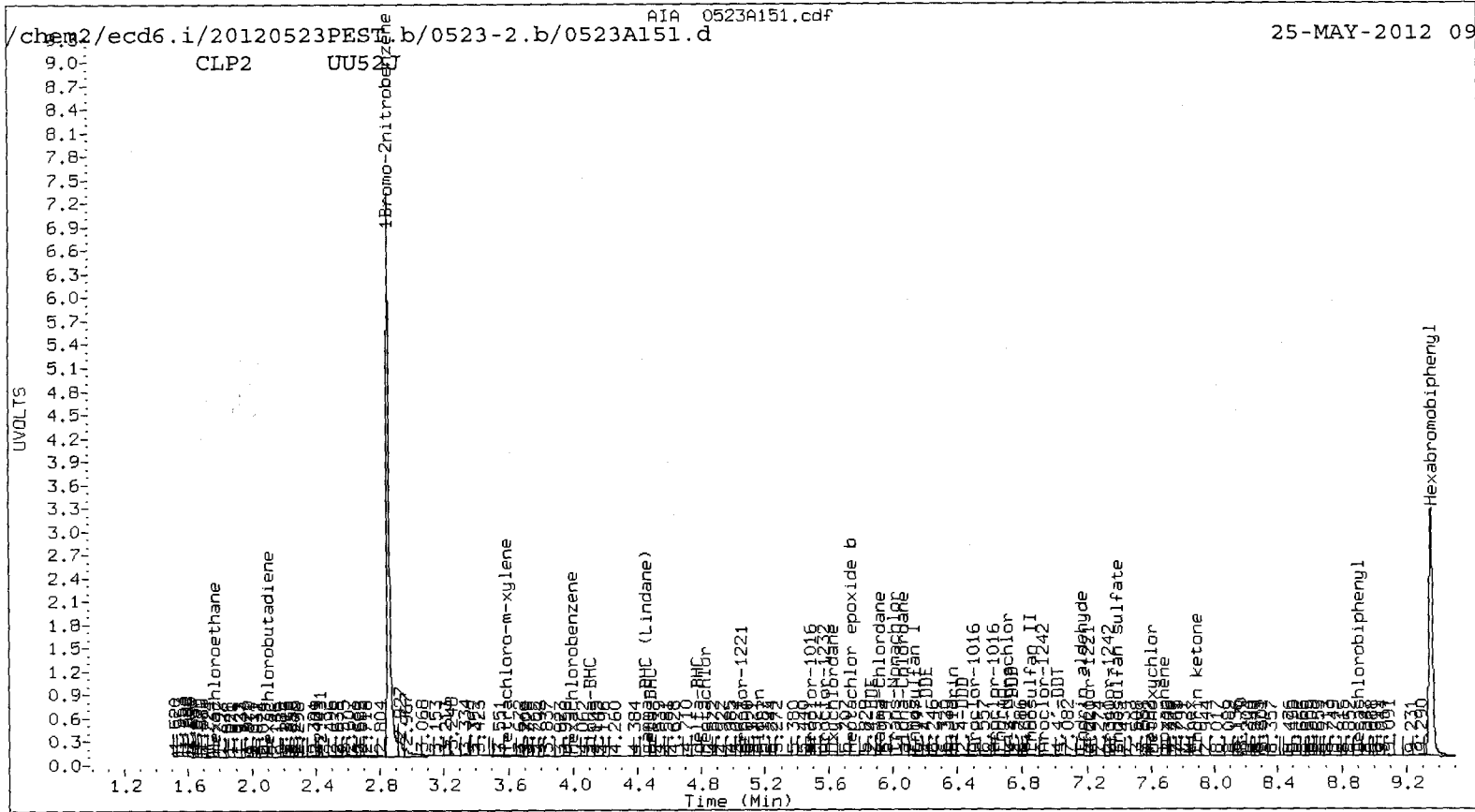
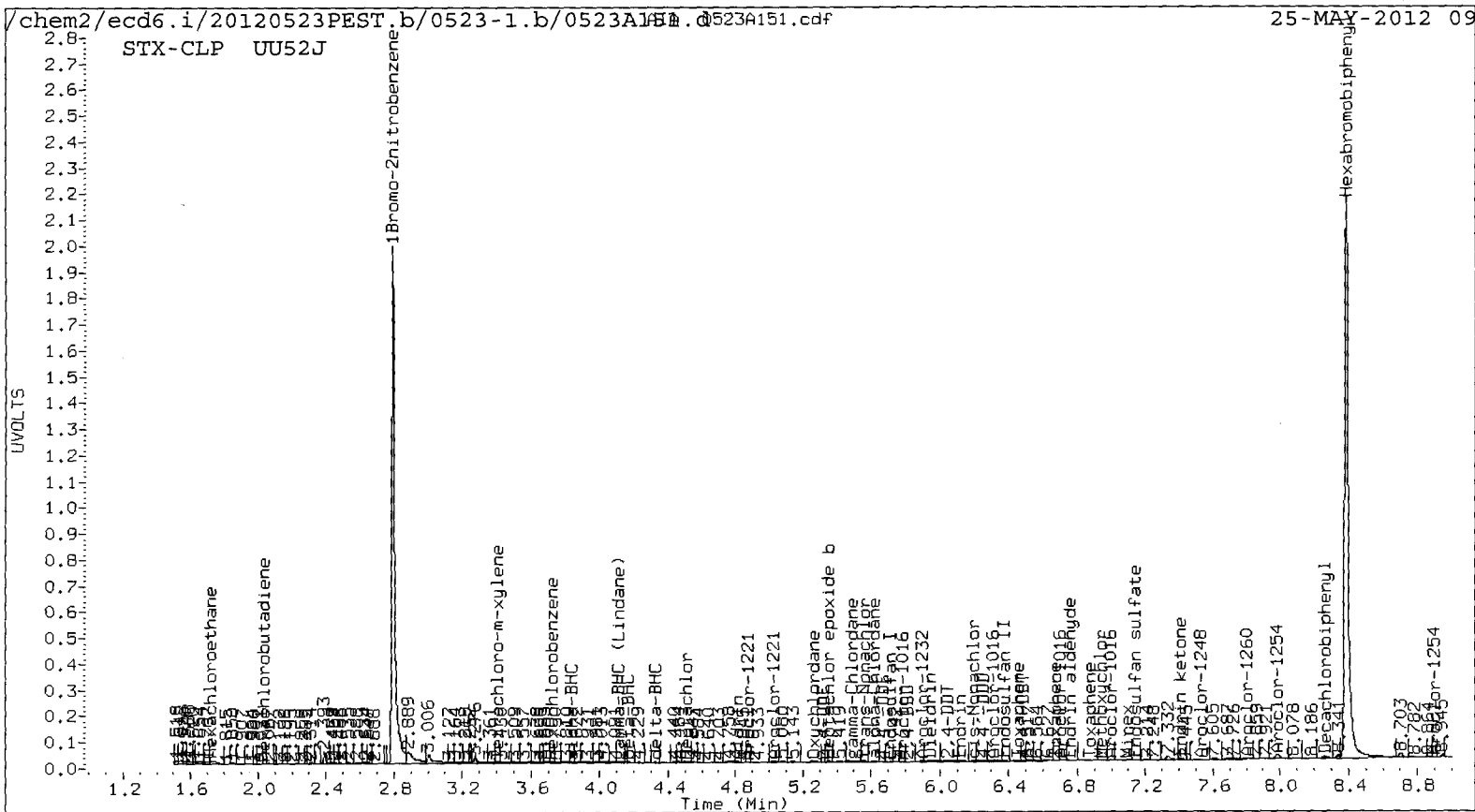
STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|---|-----|-----|-----|-------|
| Aroclor-1232 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1232 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |

STX-CLPAve: <3 Quant Peaks CLP2Ave: <3 Quant Peaks

| | | | | | | | | | | |
|--------------|---|-----|-----|-----|-------|----|-----|-----|-----|-------|
| Aroclor-1242 | 1 | --- | --- | --- | 0.000 | 1 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 2 | --- | --- | --- | 0.000 | 2 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 3 | --- | --- | --- | 0.000 | 3 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 4 | --- | --- | --- | 0.000 | 4 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 5 | --- | --- | --- | 0.000 | 5 | --- | --- | --- | 0.000 |
| Aroclor-1242 | 6 | --- | --- | --- | 0.000 | NS | --- | --- | --- | --- |

| | | | | | |
|----------------------------|-----|-------|-------------------------|-----|-------|
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1248 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1248 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1248 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1248 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1248 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1254 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1254 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1254 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1254 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1254 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1260 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1260 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1260 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1260 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1260 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1262 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1262 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1262 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1262 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1262 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |
| Aroclor-1268 1 | --- | 0.000 | 1 | --- | 0.000 |
| Aroclor-1268 2 | --- | 0.000 | 2 | --- | 0.000 |
| Aroclor-1268 3 | --- | 0.000 | 3 | --- | 0.000 |
| Aroclor-1268 4 | --- | 0.000 | 4 | --- | 0.000 |
| Aroclor-1268 5 | --- | 0.000 | 5 | --- | 0.000 |
| STX-CLPAve: <3 Quant Peaks | | | CLP2Ave: <3 Quant Peaks | | |



UU52: 01572

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20120523PEST.b/0523-1.b/0523A155.d ARI ID: INDAE
 Data file 2: /chem2/ecd6.i/20120523PEST.b/0523-2.b/0523A155.d Client ID:
 Method: /chem2/ecd6.i/20120523PEST.b/PEST0523.m Injection Date: 25-MAY-2012 10:42
 Compound Sublist: INDA Report Date: 05/29/2012 09:49
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|------|----------------------|
| 2.797 | 0.000 5494582 | 2.854 -0.001 18934934 | 80.0000 | 80.0000 | 0.0 | 1Bromo-2nitrobenzene |
| 3.846 | -0.001 2297698 | 4.105 -0.003 6502233 | 20.9589 | 20.1664 | 3.9 | alpha-BHC |
| 4.184 | 0.002 821047 | 4.501 -0.001 2354774 | 20.0789 | 18.9853 | 5.6 | beta-BHC |
| 4.340 | 0.003 1674992 | 4.781 -0.001 4648299 | 20.9418 | 20.1972 | 3.6 | delta-BHC |
| 4.106 | -0.001 1901592 | 4.426 -0.003 5418995 | 20.6777 | 19.6977 | 4.9 | gamma-BHC (Lindane) |
| 4.517 | -0.001 2102927 | 4.846 -0.003 5346506 | 20.7150 | 19.3110 | 7.0 | Heptachlor |
| 4.786 | -0.001 1941097 | 5.168 -0.003 4648763 | 20.8460 | 19.3722 | 7.3 | Aldrin |
| 5.345 | -0.001 1663943 | 5.730 -0.003 4545036 | 20.0672 | 19.5230 | 2.7 | Heptachlor epoxide b |
| 5.721 | -0.001 2175178 | 6.115 -0.003 3911634 | 19.4347 | 19.3041 | 0.7 | Endosulfan I |
| 5.945 | -0.001 3624046 | 6.374 -0.003 8190826 | 40.6685 | 39.1014 | 3.9 | Dieldrin |
| 5.673 | 0.003 2625141 | 6.207 -0.001 7449459 | 46.5665 | 40.2107 | 14.6 | 4,4'-DDE |
| 6.162 | -0.001 3279325 | 6.661 -0.003 6817583 | 39.6034 | 36.8977 | 7.1 | Endrin |
| 6.370 | 0.000 3109104 | 6.855 -0.002 6751829 | 38.5806 | 36.0662 | 6.7 | Endosulfan II |
| 6.229 | 0.002 2714272 | 6.747 -0.001 5844903 | 41.6316 | 37.8550 | 9.5 | 4,4'-DDD |
| 7.137 | -0.001 2726495 | 7.401 -0.003 5313241 | 38.4824 | 36.9398 | 4.1 | Endosulfan sulfate |
| 6.484 | 0.000 2931375 | 7.032 -0.002 5833342 | 40.9404 | 38.3673 | 6.5 | 4,4'-DDT |
| 6.923 | 0.000 6853986 | 7.627 -0.002 1100148 | 187.8875 | 165.6271 | 12.6 | Methoxychlor |
| 7.388 | -0.001 3361860 | 7.879 -0.003 6895915 | 37.4290 | 37.2399 | 0.5 | Endrin ketone |
| 6.748 | -0.001 2469161 | 7.155 -0.003 5082077 | 37.9935 | 35.6426 | 6.4 | Endrin aldehyde |
| 5.469 | -0.001 1827933 | 5.916 -0.002 4315340 | 20.3308 | 19.9774 | 1.8 | gamma-Chlordane |
| 5.593 | 0.000 1552519 | 6.055 -0.003 4000989 | 18.1448 | 19.4624 | 7.0 | alpha-Chlordane |
| 2.053 | -0.001 2396566 | 2.111 -0.002 6573262 | 19.7802 | 18.7795 | 5.2 | Hexachlorobutadiene |
| 3.719 | 0.002 1472915 | 3.994 0.000 5724900 | 19.4900 | 19.4440 | 0.2 | Hexachlorobenzene |
| 8.389 | -0.004 7700454 | 9.352 -0.005 10762965 | 80.0000 | 80.0000 | 0.0 | Hexabromobiphenyl N |
| 3.407 | 0.001 3219949 | 3.586 -0.001 9317185 | 39.6046 | 39.6523 | 0.1 | Tetrachloro-m-xylene |
| 8.249 | -0.001 3170643 | 8.905 -0.003 5666857 | 36.6525 | 38.0318 | 3.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

| SURR/SPIKE | Col1 | Col2 | Lower | Limits |
|----------------------|------|------|-------|--------|
| Tetrachloro-m-xylene | 99.0 | 99.1 | 99.0~ | 115- 0 |
| Decachlorobiphenyl | 91.6 | 95.1 | 91.6~ | 115- 0 |

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

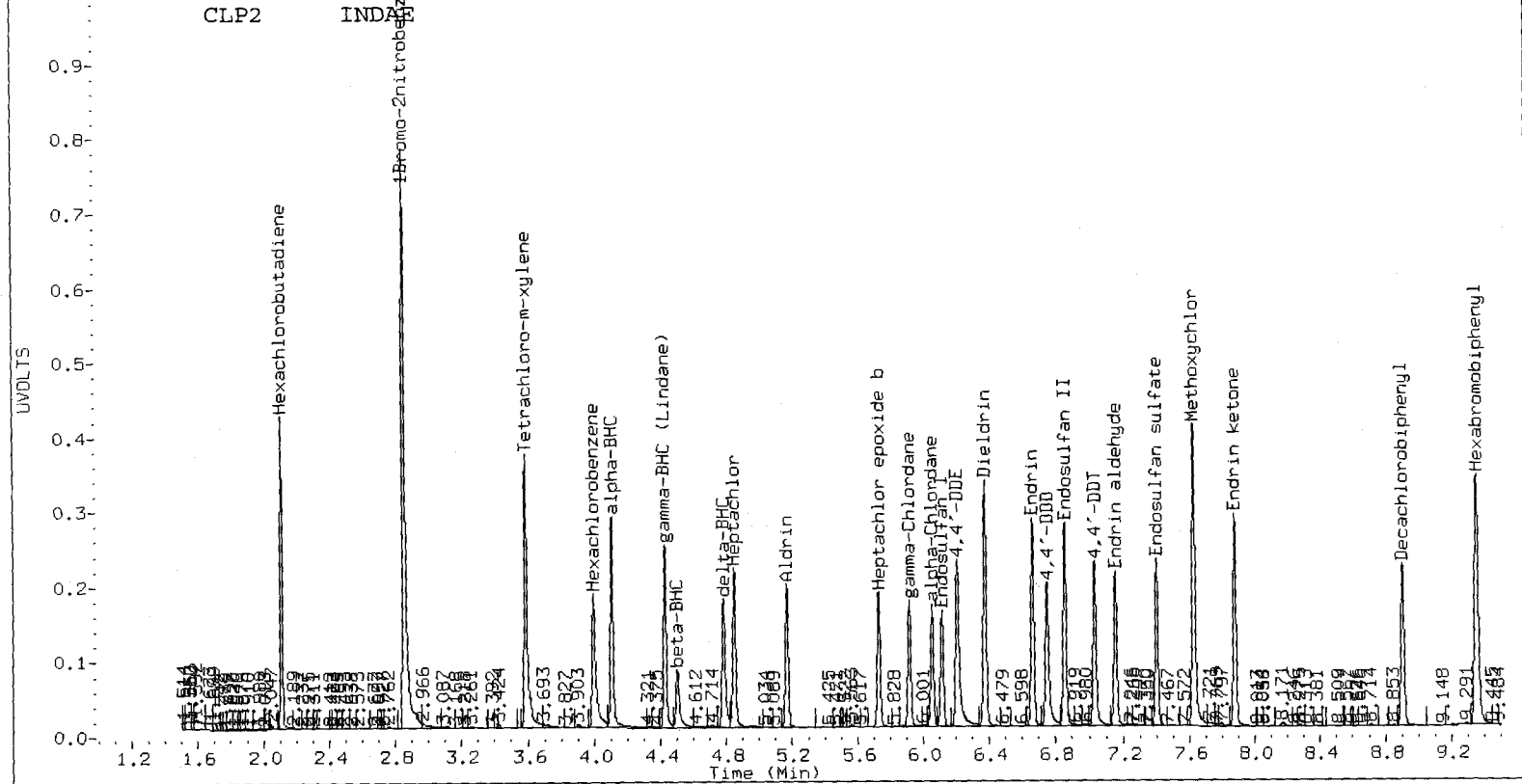
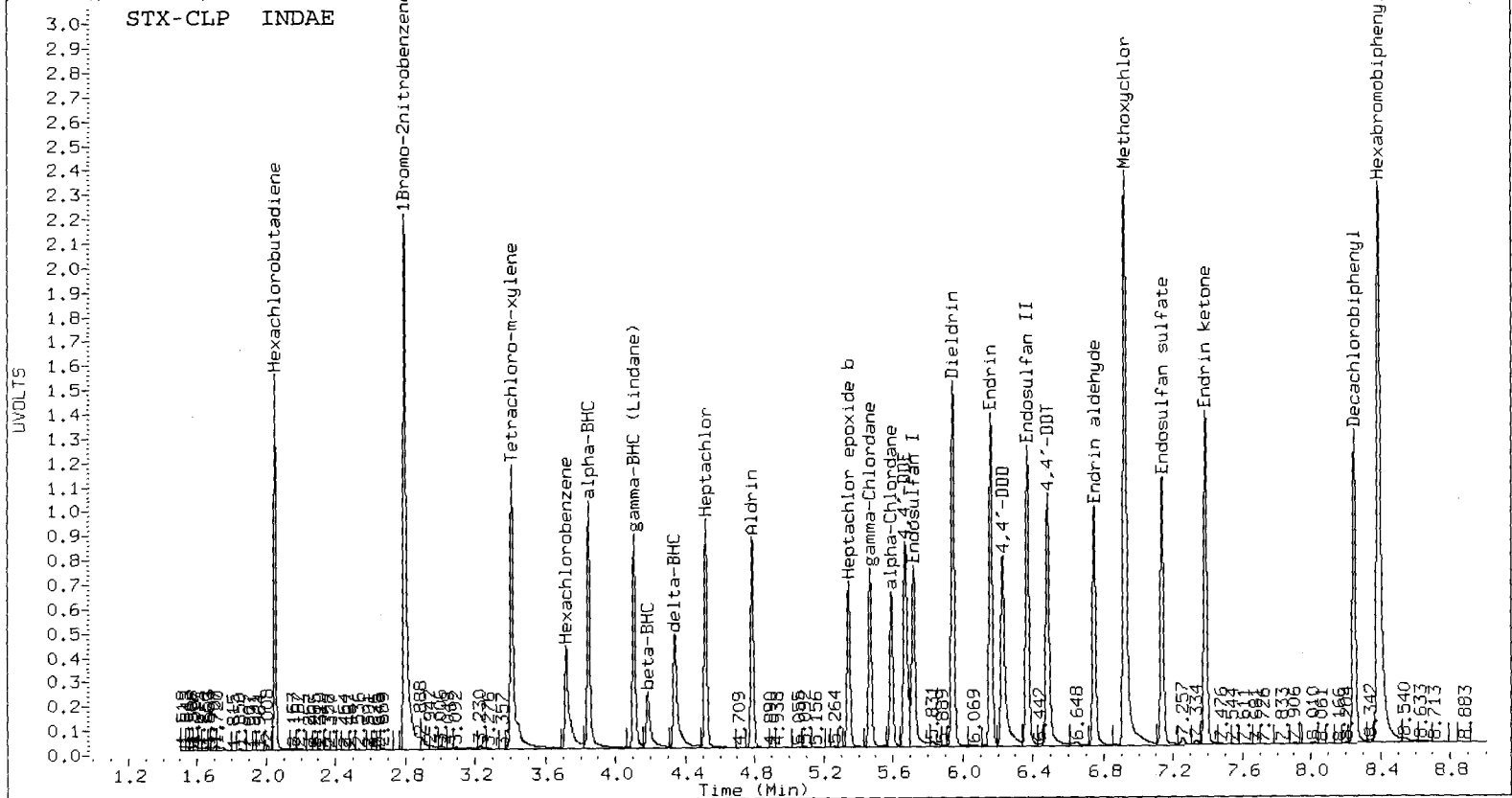
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 4841592 | 5494582 | 13.5 |
| Hexabromobiphenyl | 6506091 | 7700454 | 18.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 16226991 | 18934934 | 16.7 |
| Hexabromobiphenyl | 8472750 | 10762965 | 27.0 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

| Aroclor | STX-CLP Col | | | | | CLP2 Col | | | | |
|---------|-------------|----|-------|--------|--------|----------|----|-------|--------|--------|
| | Peak# | RT | Shift | Height | Amount | Peak# | RT | Shift | Height | Amount |
| ===== | | | | | | | | | | |



**PCB Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: UU52, UU62



Preparation Test PCB PSDDA # 19 (PCBSDMP4)

ARI Job No(s) UU52 ^{very high sulfur content} Page 1 of 1

PSDDA (4ppb)
Batch set up by: JH

| ARI Sample I.D. | Weight Extracted (eq. to 12.5g dry wt) | (REQ) Acid Clean (2.5mL) | (REQ) Sulfur Clean (2.5mL) | (REQ) Silica Gel Clean (1:2.5) | Extraction Final Volume | Volume to Lab | Comments | Verify Client ID |
|--------------------------|--|--------------------------|----------------------------|--------------------------------|-------------------------|----------------|----------------------------|---|
| MBS <u>uu52</u> | 12.50g | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | (10g Actual W) | <u>RR</u> 5/22/12 Analyst/Date Microwave |
| SBS <u>↓</u> | 12.50g | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | (10g Actual Wt) | <u>M</u> 5/24/12 Analyst/Date |
| SBSDup | 12.50g | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | (10g Actual Wt) | Analyst/Date |
| <u>5/6</u> <u>uu52 A</u> | <u>12.50g</u> <u>137.18</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | (10g Actual Wt) | KD 100°C |
| <u>6</u> <u>B</u> | <u>129.80</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | <u>YL</u> 5/24/12 Analyst/Date |
| <u>6</u> <u>C</u> | <u>123.00</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | |
| <u>5/6</u> <u>D</u> | <u>135.41</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | |
| <u>5</u> <u>E</u> | <u>131.18</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | Analyst/Date |
| <u>6</u> <u>F</u> | <u>141.28</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | TurboVap 23 Pre-Cleanups |
| <u>5/6</u> <u>G</u> | <u>136.37</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | <u>SA</u> 5/25/12 Analyst/Date |
| <u>5</u> <u>H</u> | <u>78.27</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | |
| <u>5/6</u> <u>I</u> | <u>114.28</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | TurboVap 12(3) Post Cleanups |
| <u>5/6</u> <u>J</u> | <u>127.05</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | |
| <u>5/6</u> <u>Jms</u> | <u>127.69</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | |
| <u>5/6</u> <u>Jmsd</u> | <u>127.16</u> | 2.5mL | 2.5mL | 1mL | 2.5mL | 1mL | | <u>SP</u> 5/25/12 Analyst/Date |
| <u>Weighted PSDDA</u> | | | | | | | | |
| Analyst/Date | | | | | | | | |

| Standard Surrogate | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|----------------------|-----------------|-------------------|-----------------|-----------------|-----------|-----------|
| Spike | N(1914-2) | 2µg/mL | 50µL | 5/28/12 | <u>ML</u> | <u>SP</u> |
| Spike | 1(1964-2) | 20µg/mL | 63µL | 4/23/13 | <u>ML</u> | <u>SP</u> |
| GLS Spike | 5() | 2µg/mL | 25µL | | | |

Extraction Time: 0.745 Balance ID: B114127534

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require ^{multiple} two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3" inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in cold water 15 minutes. 7. Decant 1:1 Hex/Ace into E. flask with sodium sulfate in bottom+ funnel with neutral glasswool plug. 8. Rinse with Hexane. 9. Add 8:2 Hexane/Acetone to the vessel 3" inches above the soil layer after homogenization. Microwave a 2nd time. 10. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 11. KD (Small or Large Drying Column) on 100° bath. (Blanks=only 5g Sodium Sulfate). 12. Exchange (2 X with 20mL) Hexane. 13. TurboVap. 14. Clean-ups. 15. TurboVap. 16. Vial with Hexane.

A. Need Total Solids Y (N) B. Archive/Freeze Y (N)



ARI Job No.: UU52

Client ID: Anchor QEA, LLC

Parameter: PCB PSDOA (4ppb)

Client Project: Jeld Wen Mavlsby Marsh

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|--------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= | AC 5-16-12 |
| <input type="checkbox"/> Standing Water Decanted (Not shared)= | ↓ |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= $B < 5\%$ sticks $F=60\%$ grass/sticks $g=50\%$ grass/sticks $h=30\%$ $i=50\%$ | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= $B-$ | |
| <input checked="" type="checkbox"/> Other (Details)= <u>UU52 - A-J TMS JMS - Samples submerged? Spiles</u> <u>then to splitted into 6-g vessels prior to microwave due</u> <u>to sample weigh and will combined into 9 flasks of</u> <u>multi flasks. The multi flasks are samples: E, I, Jms</u> <u>Aqueous: All samples will combine at the KD station.</u> | NLS/24/12 |
| <input type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |



PCB - Water

Separatory Funnel (3510C) (SOP # 3311S)

In-House (1ppb)

Preparation Test PCB # 1 (PCBWSI)

ARI Job No(s) U662

Page 1 of 1

Batch set up by: SP

| ARI Sample I.D. | Volume Extracted | (REQ) Acid Clean (5mL) | (REQ) Sulfur Clean (5mL) | (opt) Silica Gel Clean (1:5) | FEV | Volume to Lab | Comments | Verify Client ID |
|-----------------|------------------|------------------------|--------------------------|------------------------------|-----|---------------|----------|--|
| <u>U662</u> MBW | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | AR 05/21/12 |
| SBW | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |
| SBW Dup. | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Verify pH is 5-9 |
| QLS | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | AR 05/21/12 |
| ↓ J | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |
| ↓ K | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | KD 80-85°C |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Hexane Exchange (2 X 20mL) 100°C |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | YL 5/21/12 |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | TurboVap 2 3 Pre-Cleanups (4mL=10mL Hexane Exchange) |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | AC 5-23-12 |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | TurboVap 1 2 3 Post Cleanups |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |
| | 500mL | 5mL | 5mL | Y/N | 5mL | 1mL | | Analyst/Date |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|---------------|--------|-----------------|---------|---------|
| Surrogate | N (1914-2) | 2µg/mL | 100µL | 5/28/12 | AR | AC |
| Spike | 1 (1964-2) | 20µg/mL | 125µL | 4/3/13 | AR | AC |
| QLS Spike | 5 (1962-1) | 2µg/mL | 250µL | 4/3/13 | AR | AC |

Extraction Time: 13:58

SPECIAL INSTRUCTIONS: 1. Verify pH 2. Adjust pH (if necessary=Analyst Notes). 3. Add Surr/Spike. 4. Extract 3X with 30mL DCM. 5. KD (NO Drying Column) at 80°. 6. Exchange (2 X with 20mL) Hexane at 100°. 7. TurboVap to 4mL=10mL Hexane Exchange. 8. TurboVap. 9. Clean-ups? 10. TurboVap (if Silica Clean). 11. Vial 1mL with Hexane.

A. Archive Y/N
SP
5/17/12

PCB Raw Data
Initial Calibration

ARI Job ID: UU52, UU62



GC Initial Calibration Notes

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) Other

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 5/23/2012 Internal Standard ID 1878-3 Expiration 8/1/2012

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? YES / NO
ICal Meets %RSD & r² Criteria YES / NO ICV Exceeding ±30%? YES / NO
Manual Integrations for ICal? YES / NO Linear Fits Used? YES / NO
Minimum Response S/N Met YES / NO Quadratic Fits Used? YES / NO
Calibration Points Dropped? YES / NO

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|----------------|---------------|------------------|--------------------|---------------|----------------|
| <u>AR 1660</u> | <u>1980-1</u> | <u>5/16/13</u> | <u>AR 1660 ICV</u> | <u>1928-2</u> | <u>5/28/12</u> |
| <u>AR 1242</u> | <u>1980-4</u> | <u>5/16/13</u> | <u>AR 1242 ICV</u> | <u>1923-1</u> | <u>5/28/12</u> |
| <u>AR 1248</u> | <u>1980-5</u> | <u>5/16/13</u> | <u>AR 1248 ICV</u> | <u>1923-2</u> | <u>5/28/12</u> |
| <u>AR 1254</u> | <u>1980-6</u> | <u>5/16/13</u> | <u>AR 1254 ICV</u> | <u>1923-3</u> | <u>5/28/12</u> |
| <u>AR 2162</u> | <u>1980-2</u> | <u>5/16/13</u> | <u>AR 2162 ICV</u> | <u>1923-4</u> | <u>5/28/12</u> |
| <u>AR 3268</u> | <u>1980-3</u> | <u>5/16/13</u> | <u>AR 3268 ICV</u> | <u>1923-5</u> | <u>5/28/12</u> |
| <u>DS</u> | <u>1878-2</u> | <u>5/28/2012</u> | | | |
| <u>IB</u> | <u>1982-2</u> | <u>5/16/13</u> | | | |

Detail problems, corrective actions and/or other pertinent information below:

Analyst: [Signature] Date: 5/24/2012
Reviewer: [Signature] Date: 5/24/12

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd5.i/20120523.b/ical-2.b
 /chem2/ecd5.i/20120523.b/ical-2.b

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|------------|----|-----------------|----------|
| 1 | 23-MAY-2012 11:25 | 0523A004.d | 1 | IB | |
| 2 | 23-MAY-2012 11:44 | 0523A005.d | 1 | 0.25PPM AR1660 | |
| 3 | 23-MAY-2012 12:03 | 0523A006.d | 1 | 0.02 PPM AR1660 | |
| 4 | 23-MAY-2012 12:22 | 0523A007.d | 1 | 0.05 PPM AR1660 | |
| 5 | 23-MAY-2012 12:41 | 0523A008.d | 1 | 1 PPM AR1660 | |
| 6 | 23-MAY-2012 13:01 | 0523A009.d | 1 | 0.1 PPM AR1660 | |
| 7 | 23-MAY-2012 13:20 | 0523A010.d | 1 | 0.5 PPM ARR160 | |
| 8 | 23-MAY-2012 13:39 | 0523A011.d | 1 | AR1242 | |
| 9 | 23-MAY-2012 13:58 | 0523A012.d | 1 | AR1248 | |
| 10 | 23-MAY-2012 14:17 | 0523A013.d | 1 | AR1254 | |
| 11 | 23-MAY-2012 14:36 | 0523A014.d | 1 | AR2162 | |
| 12 | 23-MAY-2012 14:55 | 0523A015.d | 1 | AR3268 | |
| 13 | 23-MAY-2012 15:14 | 0523A016.d | 1 | AR1660 | ICV |
| 14 | 23-MAY-2012 15:33 | 0523A017.d | 1 | AR1242 | ICV |
| 15 | 23-MAY-2012 15:52 | 0523A018.d | 1 | AR1248 | ICV |
| 16 | 23-MAY-2012 16:11 | 0523A019.d | 1 | AR1254 | ICV |
| 17 | 23-MAY-2012 16:30 | 0523A020.d | 1 | AR2162 | ICV |
| 18 | 23-MAY-2012 16:49 | 0523A021.d | 1 | AR3268 | ICV |
| 19 | 23-MAY-2012 17:08 | 0523A022.d | 1 | DDT | |
| 20 | 23-MAY-2012 17:27 | 0523A023.d | 1 | DDT BD | |

Analytical Resources, Inc.
 INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

Calibration File Names:

- Level 1: /chem2/ecd5.i/20120523.b/ical-2.b/0523A006.d
- Level 2: /chem2/ecd5.i/20120523.b/ical-2.b/0523A007.d
- Level 3: /chem2/ecd5.i/20120523.b/ical-2.b/0523A009.d
- Level 4: /chem2/ecd5.i/20120523.b/ical-2.b/0523A005.d
- Level 5: /chem2/ecd5.i/20120523.b/ical-2.b/0523A010.d
- Level 6: /chem2/ecd5.i/20120523.b/ical-2.b/0523A008.d
- Level 7: /chem2/ecd5.i/20120523.b/ical-2.b/0523A015.d
- Level 8: /chem2/ecd5.i/20120523.b/ddt-2.b/0523A022.d

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|-------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 1 Aroclor-1221(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.01261 | +++++ | | | | | 0.01261 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.00745 | +++++ | | | | | 0.00745 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.02330 | +++++ | | | | | 0.02330 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.00427 | +++++ | | | | | 0.00427 | 0.000 |
| 4 Aroclor-1232(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.01927 | +++++ | | | | | 0.01927 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.04034 | +++++ | | | | | 0.04034 | 0.000 |

Report Date : 24-May-2012 09:52

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|-------------------|-----------------|--------------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (3) | ++++ 0.01361 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.01361 | 0.000 |
| (4) | ++++ 0.01492 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.01492 | 0.000 |
| 3 Aroclor-1242(1) | ++++ 0.03264 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03264 | 0.000 |
| (2) | ++++ 0.07413 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.07413 | 0.000 |
| (3) | ++++ 0.03012 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03012 | 0.000 |
| (4) | ++++ 0.02619 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.02619 | 0.000 |
| 6 Aroclor-1248(1) | ++++ 0.04804 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.04804 | 0.000 |
| (2) | ++++ 0.03849 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03849 | 0.000 |
| (3) | ++++ 0.04628 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.04628 | 0.000 |

Analytical Resources, Inc.

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|-------------------|-----------------|-----------------|---------|---------|---------|----------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (4) | ++++ 0.05224 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.05224 | 0.000 |
| 7 Aroclor-1016(1) | 0.04940 ++++ | 0.04647 ++++ | 0.04556 | 0.04084 | 0.03653 | 0.03173 | 0.04176 | 16.023 |
| (2) | 0.10597 ++++ | 0.10258 ++++ | 0.10168 | 0.09436 | 0.08658 | 0.07751 | 0.09478 | 11.554 |
| (3) | 0.02708 ++++ | 0.02599 ++++ | 0.02598 | 0.02377 | 0.02273 | 0.02117 | 0.02445 | 9.301 |
| (4) | 0.03005 ++++ | 0.02898 ++++ | 0.02884 | 0.02684 | 0.02521 | 0.02321 | 0.02719 | 9.594 |
| 8 Aroclor-1254(1) | ++++ 0.03512 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03512 | 0.000 |
| (2) | ++++ 0.04464 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.04464 | 0.000 |
| (3) | ++++ 0.03411 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03411 | 0.000 |
| (4) | ++++ 0.07546 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.07546 | 0.000 |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|--------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04423 | 0.000 |
| | 0.04423 | +++++ | | | | | | |
| 10 Aroclor-1262(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.07493 | 0.000 |
| | 0.07493 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.06463 | 0.000 |
| | 0.06463 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.14676 | 0.000 |
| | 0.14676 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05904 | 0.000 |
| | 0.05904 | +++++ | | | | | | |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05498 | 0.000 |
| | 0.05498 | +++++ | | | | | | |
| 9 Aroclor-1260(1) | 0.05062 | 0.04889 | 0.04828 | 0.04520 | 0.04292 | 0.03939 | 0.04588 | 9.180 |
| | +++++ | +++++ | | | | | | |
| (2) | 0.06349 | 0.06034 | 0.05952 | 0.05597 | 0.05336 | 0.04914 | 0.05697 | 9.141 |
| | +++++ | +++++ | | | | | | |
| (3) | 0.12715 | 0.12250 | 0.12117 | 0.11392 | 0.10849 | 0.10086 | 0.11568 | 8.495 |
| | +++++ | +++++ | | | | | | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|---------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (4) | 0.03841 | 0.03534 | 0.03477 | 0.03284 | 0.03166 | 0.02963 | 0.03377 | 9.114 |
| | ++++ | ++++ | | | | | | |
| 11 Aroclor-1268 (1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.15273 | 0.000 |
| | 0.15273 | ++++ | | | | | | |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.14397 | 0.000 |
| | 0.14397 | ++++ | | | | | | |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.12090 | 0.000 |
| | 0.12090 | ++++ | | | | | | |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.34151 | 0.000 |
| | 0.34151 | ++++ | | | | | | |
| 41 2,4-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 686 | 0.000 |
| | ++++ | 686 | | | | | | |
| 42 2,4-DDD | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 620 | 0.000 |
| | ++++ | 620 | | | | | | |
| 44 4,4-DDE | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1144 | 0.000 |
| | ++++ | 1144 | | | | | | |
| 45 4,4-DDD/2,4-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 844 | 0.000 |
| | ++++ | 844 | | | | | | |

Report Date : 24-May-2012 09:52

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB2.m
 Cal Date : 24-May-2012 09:52 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|---------------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 46 4,4-DDT | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 1002 | 0.000 |
| | ++++ | 1002 | | | | | | |
| \$ 2 Tetrachloro-m-xylene | 1.12596 | 1.14489 | 1.18999 | 1.15489 | 1.10190 | 1.03489 | 1.12542 | 4.730 |
| | ++++ | ++++ | | | | | | |
| \$ 13 Decachlorobiphenyl | 1.15697 | 1.11169 | 1.08522 | 1.00551 | 0.95198 | 0.89078 | 1.03369 | 9.849 |
| | ++++ | ++++ | | | | | | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20120523.b/ical-2.b

ARI Job No.: IB Method: PCB2.m Instrument: ecd5.i Date: 23-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|------------|----|-------------------------------|
| 1125 | 0523A004.d | IB | | 1 | NO MANUAL INTEGRATION |
| 1144 | 0523A005.d | 0.25PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1203 | 0523A006.d | 0.02 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1222 | 0523A007.d | 0.05 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1241 | 0523A008.d | 1 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1301 | 0523A009.d | 0.1 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1320 | 0523A010.d | 0.5 PPM | ARR160 | 1 | NO MANUAL INTEGRATION |
| 1339 | 0523A011.d | | AR1242 | 1 | NO MANUAL INTEGRATION |
| 1358 | 0523A012.d | | AR1248 | 1 | NO MANUAL INTEGRATION |
| 1417 | 0523A013.d | | AR1254 | 1 | NO MANUAL INTEGRATION |
| 1436 | 0523A014.d | | AR2162 | 1 | NO MANUAL INTEGRATION |
| 1455 | 0523A015.d | | AR3268 | 1 | NO MANUAL INTEGRATION |
| 1514 | 0523A016.d | | AR1660 ICV | 1 | NO MANUAL INTEGRATION |
| 1533 | 0523A017.d | | AR1242 ICV | 1 | NO MANUAL INTEGRATION |
| 1552 | 0523A018.d | | AR1248 ICV | 1 | NO MANUAL INTEGRATION |
| 1611 | 0523A019.d | | AR1254 ICV | 1 | NO MANUAL INTEGRATION |
| 1630 | 0523A020.d | | AR2162 ICV | 1 | NO MANUAL INTEGRATION |
| 1649 | 0523A021.d | | AR3268 ICV | 1 | NO MANUAL INTEGRATION |
| 1718 | 0523A022.d | | DDT | 1 | NO MANUAL INTEGRATION |
| 1727 | 0523A023.d | | DDT BD | 1 | NO MANUAL INTEGRATION |

20120523

Report Date : 24-May-2012 10:15

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd5.i/20120523.b/PCB2.m
Batch File: /chem2/ecd5.i/20120523.b/ical-2.b
Inst ID: ecd5.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A005 | 0523A006 | 0523A007 | 0523A008 | 0523A009 | 0523A010 |
| INJ. DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ. TIME: | 11:44 | 12:03 | 12:22 | 12:41 | 13:01 | 13:20 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|----------|-------------|---------------|---------|
| * 40 IS-BNE | 2.893 | 2.893 | 2.893 | 2.893 | 2.893 | 2.893 | 2.893 | 2.793-2.993 | 2.893 | 0.000 |
| \$ 2 Tetrachloro-m-xylene | 4.605 | 4.606 | 4.605 | 4.607 | 4.604 | 4.606 | 4.607 | 4.507-4.707 | 4.605 | 0.001 |
| 1 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.290 | 5.190-5.390 | +++++ |
| 4 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.345 | 6.245-6.445 | +++++ |
| 3 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.343 | 6.243-6.443 | +++++ |
| 6 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.968 | 6.868-7.068 | +++++ |
| 7 Aroclor-1016 | 6.343 | 6.343 | 6.342 | 6.344 | 6.343 | 6.344 | 6.344 | 6.244-6.444 | 6.343 | 0.001 |
| 8 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.463 | 8.363-8.563 | +++++ |
| 10 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.419 | 10.319-10.519 | +++++ |
| 9 Aroclor-1260 | 10.419 | 10.419 | 10.419 | 10.420 | 10.418 | 10.420 | 10.420 | 10.420 | 10.320-10.520 | 0.001 |
| 11 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.664 | 11.564-11.764 | +++++ |
| \$ 13 Decachlorobiphenyl | 13.363 | 13.364 | 13.363 | 13.363 | 13.363 | 13.363 | 13.362 | 13.362 | 13.262-13.462 | 0.000 |
| * 12 IS-HBBP | 14.232 | 14.232 | 14.231 | 14.230 | 14.231 | 14.232 | 14.232 | 14.232 | 14.132-14.332 | 0.001 |
| 41 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.726 | 8.676-8.776 | +++++ |
| 42 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.410 | 9.360-9.460 | +++++ |
| 44 4,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.112 | 9.012-9.212 | +++++ |
| 45 4,4-DDD/2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.872 | 9.772-9.972 | +++++ |

Reviewer 1 _____
Reviewer 2 _____

AR Date: 5/24/2012
Date: 5/24/12

01591

Report Date : 24-May-2012 10:15

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORTMethod File: /chem2/ecd5.i/20120523.b/PCB2.m
Batch File: /chem2/ecd5.i/20120523.b/ical-2.b
Inst ID: ecd5.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 46 4,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.310 | 10.210-10.410 | +++++ | +++++ |

JUS2:01592

Report Date : 24-May-2012 11:58

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

Calibration File Names:
 Level 1: /chem2/ecd5.i/20120523.b/ical-1.b/0523A006.d
 Level 2: /chem2/ecd5.i/20120523.b/ical-1.b/0523A007.d
 Level 3: /chem2/ecd5.i/20120523.b/ical-1.b/0523A009.d
 Level 4: /chem2/ecd5.i/20120523.b/ical-1.b/0523A005.d
 Level 5: /chem2/ecd5.i/20120523.b/ical-1.b/0523A010.d
 Level 6: /chem2/ecd5.i/20120523.b/ical-1.b/0523A008.d
 Level 7: /chem2/ecd5.i/20120523.b/ical-1.b/0523A015.d
 Level 8: /chem2/ecd5.i/20120523.b/ddt-1.b/0523A022.d

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|--------------------|-----------------|--------------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 2 Aroclor-1221 (1) | ++++ 0.00600 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.00600 | 0.000 |
| (2) | ++++ 0.00966 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.00966 | 0.000 |
| (3) | ++++ 0.03163 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03163 | 0.000 |
| 3 Aroclor-1242 (1) | ++++ 0.02518 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.02518 | 0.000 |
| (2) | ++++ 0.08396 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.08396 | 0.000 |
| (3) | ++++ 0.03350 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.03350 | 0.000 |

Report Date : 24-May-2012 11:58

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|-------------------|---------|-----------|---------|---------|---------|----------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.03120 | 0.000 |
| | 0.03120 | +++++ | | | | | | |
| 4 Aroclor-1232(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.01394 | 0.000 |
| | 0.01394 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04636 | 0.000 |
| | 0.04636 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.01880 | 0.000 |
| | 0.01880 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.01806 | 0.000 |
| | 0.01806 | +++++ | | | | | | |
| 7 Aroclor-1016(1) | 0.04171 | 0.03673 | 0.03537 | 0.03160 | 0.02820 | 0.02665 | 0.03338 | 16.944 |
| | +++++ | +++++ | | | | | | |
| (2) | 0.12318 | 0.12361 | 0.11880 | 0.10580 | 0.09405 | 0.08736 | 0.10880 | 14.311 |
| | +++++ | +++++ | | | | | | |
| (3) | 0.04375 | 0.04947 | 0.04772 | 0.04251 | 0.03780 | 0.03621 | 0.04291 | 12.246 |
| | +++++ | +++++ | | | | | | |
| (4) | 0.04353 | 0.03876 | 0.03437 | 0.03036 | 0.02750 | 0.02829 | 0.03380 | 18.784 |
| | +++++ | +++++ | | | | | | |

Report Date : 24-May-2012 11:58

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|--------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 6 Aroclor-1248 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05616 | 0.000 |
| | 0.05616 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04243 | 0.000 |
| | 0.04243 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05435 | 0.000 |
| | 0.05435 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05485 | 0.000 |
| | 0.05485 | +++++ | | | | | | |
| 8 Aroclor-1254 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.07344 | 0.000 |
| | 0.07344 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04727 | 0.000 |
| | 0.04727 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.09126 | 0.000 |
| | 0.09126 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.09827 | 0.000 |
| | 0.09827 | +++++ | | | | | | |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.06112 | 0.000 |
| | 0.06112 | +++++ | | | | | | |

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|--------------------|---------|-----------|---------|---------|---------|----------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 9 Aroclor-1260(1) | 0.05228 | 0.04825 | 0.04582 | 0.04177 | 0.03802 | 0.03428 | 0.04340 | 15.387 |
| | ++++ | ++++ | | | | | | |
| (2) | 0.12945 | 0.11873 | 0.11251 | 0.10270 | 0.09418 | 0.08869 | 0.10771 | 14.305 |
| | ++++ | ++++ | | | | | | |
| (3) | 0.07053 | 0.06607 | 0.06311 | 0.05788 | 0.05299 | 0.04863 | 0.05987 | 13.782 |
| | ++++ | ++++ | | | | | | |
| (4) | 0.03063 | 0.02842 | 0.02705 | 0.02471 | 0.02268 | 0.02074 | 0.02570 | 14.369 |
| | ++++ | ++++ | | | | | | |
| (5) | 0.03545 | 0.03364 | 0.03233 | 0.02984 | 0.02764 | 0.02524 | 0.03069 | 12.520 |
| | ++++ | ++++ | | | | | | |
| 10 Aroclor-1262(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.06377 | 0.000 |
| | 0.06377 | ++++ | | | | | | |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.04872 | 0.000 |
| | 0.04872 | ++++ | | | | | | |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.13314 | 0.000 |
| | 0.13314 | ++++ | | | | | | |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | 0.04866 | 0.000 |
| | 0.04866 | ++++ | | | | | | |

Report Date : 24-May-2012 11:58

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|--------------------|-----------------|--------------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (5) | ++++ 0.05533 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.05533 | 0.000 |
| 11 Aroclor-1268(1) | ++++ 0.13622 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.13622 | 0.000 |
| (2) | ++++ 0.13695 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.13695 | 0.000 |
| (3) | ++++ 0.11433 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.11433 | 0.000 |
| (4) | ++++ 0.33618 | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | 0.33618 | 0.000 |
| 42 2,4-DDE | ++++ ++++ | ++++ 909 | ++++ | ++++ | ++++ | ++++ | 909 | 0.000 |
| 43 2,4-DDD | ++++ ++++ | ++++ 875 | ++++ | ++++ | ++++ | ++++ | 875 | 0.000 |
| 44 2,4-DDT | ++++ ++++ | ++++ 1051 | ++++ | ++++ | ++++ | ++++ | 1051 | 0.000 |
| 46 4,4-DDE | ++++ ++++ | ++++ 1450 | ++++ | ++++ | ++++ | ++++ | 1450 | 0.000 |

Report Date : 24-May-2012 11:58

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2012 11:44
 End Cal Date : 23-MAY-2012 17:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20120523.b/PCB1.m
 Cal Date : 24-May-2012 11:56 aron
 Curve Type : Average

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|---------------------------|---------|-----------|---------|---------|---------|----------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 47 4,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1184 | 0.000 |
| | +++++ | 1184 | | | | | | |
| 48 4,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1334 | 0.000 |
| | +++++ | 1334 | | | | | | |
| \$ 1 Tetrachloro-m-xylene | 1.31698 | 1.36458 | 1.38372 | 1.30188 | 1.21607 | 1.13014 | 1.28556 | 7.470 |
| | +++++ | +++++ | | | | | | |
| \$ 13 Decachlorobiphenyl | 1.55318 | 1.41160 | 1.28921 | 1.12087 | 1.03293 | 0.95778 | 1.22760 | 18.780 |
| | +++++ | +++++ | | | | | | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20120523.b/ical-1.b

ARI Job No.: IB Method: PCB1.m Instrument: ecd5.i Date: 23-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|------------|----|-------------------------------|
| 1125 | 0523A004.d | | | 1 | NO MANUAL INTEGRATION |
| 1144 | 0523A005.d | 0.25PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1203 | 0523A006.d | 0.02 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1222 | 0523A007.d | 0.05 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1241 | 0523A008.d | 1 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1301 | 0523A009.d | 0.1 PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1320 | 0523A010.d | 0.5 PPM | ARR160 | 1 | NO MANUAL INTEGRATION |
| 1339 | 0523A011.d | | AR1242 | 1 | NO MANUAL INTEGRATION |
| 1358 | 0523A012.d | | AR1248 | 1 | NO MANUAL INTEGRATION |
| 1417 | 0523A013.d | | AR1254 | 1 | NO MANUAL INTEGRATION |
| 1436 | 0523A014.d | | AR2162 | 1 | NO MANUAL INTEGRATION |
| 1455 | 0523A015.d | | AR3268 | 1 | NO MANUAL INTEGRATION |
| 1514 | 0523A016.d | | AR1660 ICV | 1 | NO MANUAL INTEGRATION |
| 1533 | 0523A017.d | | AR1242 ICV | 1 | NO MANUAL INTEGRATION |
| 1552 | 0523A018.d | | AR1248 ICV | 1 | NO MANUAL INTEGRATION |
| 1611 | 0523A019.d | | AR1254 ICV | 1 | NO MANUAL INTEGRATION |
| 1630 | 0523A020.d | | AR2162 ICV | 1 | NO MANUAL INTEGRATION |
| 1649 | 0523A021.d | | AR3268 ICV | 1 | NO MANUAL INTEGRATION |

0152: 01599


Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd5.i/20120523.b/PCB1.m
Batch File: /chem2/ecd5.i/20120523.b/ical-1.b
Inst ID: ecd5.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0523A005 | 0523A006 | 0523A007 | 0523A008 | 0523A009 | 0523A010 |
| INJ.DATE: | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 | 23-MAY-2012 |
| INJ.TIME: | 11:44 | 12:03 | 12:22 | 12:41 | 13:01 | 13:20 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 41 IS-BNB | 2.409 | 2.409 | 2.409 | 2.408 | 2.408 | 2.408 | 2.409 | 2.309-2.509 | 2.409 | 0.001 |
| \$ 1 Tetrachloro-m-xylene | 4.606 | 4.604 | 4.604 | 4.606 | 4.604 | 4.604 | 4.606 | 4.506-4.706 | 4.605 | 0.001 |
| 2 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.884 | 4.784-4.984 | +++++ | +++++ |
| 3 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.237 | 6.137-6.337 | +++++ | +++++ |
| 4 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.238 | 6.138-6.338 | +++++ | +++++ |
| 7 Aroclor-1016 | 6.238 | 6.238 | 6.238 | 6.238 | 6.237 | 6.237 | 6.238 | 6.138-6.338 | 6.238 | 0.000 |
| 6 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.635 | 6.535-6.735 | +++++ | +++++ |
| 8 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.354 | 8.254-8.454 | +++++ | +++++ |
| 9 Aroclor-1260 | 10.445 | 10.444 | 10.444 | 10.445 | 10.443 | 10.444 | 10.445 | 10.345-10.545 | 10.444 | 0.001 |
| 10 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.128 | 10.028-10.228 | +++++ | +++++ |
| 11 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.336 | 11.236-11.436 | +++++ | +++++ |
| \$ 13 Decachlorobiphenyl | 12.990 | 12.989 | 12.989 | 12.991 | 12.989 | 12.990 | 12.990 | 12.890-13.090 | 12.990 | 0.001 |
| * 12 IS-HBBP | 13.353 | 13.353 | 13.353 | 13.352 | 13.352 | 13.352 | 13.353 | 13.253-13.453 | 13.352 | 0.001 |
| 42 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.321 | 8.271-8.371 | +++++ | +++++ |
| 43 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.871 | 8.821-8.921 | +++++ | +++++ |
| 44 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.375 | 9.325-9.425 | +++++ | +++++ |
| 46 4,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.753 | 8.653-8.853 | +++++ | +++++ |

Reviewer 1 _____
Reviewer 2 _____

AR Date: 5/24/2012
 Date: 5/24/12

JUN 10 01:50

Report Date : 24-May-2012 12:02

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORTMethod File: /chem2/ecd5.i/20120523.b/PCB1.m
Batch File: /chem2/ecd5.i/20120523.b/ical-1.b
Inst ID: ecd5.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 47 4,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.325 | 9.225-9.425 | +++++ | +++++ |
| 48 4,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.837 | 9.737-9.937 | +++++ | +++++ |

JUS2:01601

/chem2/ecd5.i/20120523.b/ical-1.b/0523A005.d

0.25PPM AR1660

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|-------|----------|--------|--------------------------|--------|--------|----------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 6.238 | 0.000 | 15229482 | 236.7 | 1 | 6.343 | -0.001 | 14117449 | 244.5 |
| Aroclor-1016 | 2 | 6.639 | 0.000 | 50991004 | 243.1 | 2 | 6.971 | 0.000 | 32617746 | 248.9 |
| Aroclor-1016 | 3 | 6.788 | 0.000 | 20490162 | 247.7 | 3 | 7.353 | 0.000 | 8215755 | 243.0 |
| Aroclor-1016 | 4 | 6.898 | 0.000 | 14633464 | 224.6 | 4 | 7.460 | 0.000 | 9277944 | 246.8 |
| Total CollAve (4 peaks): | | | | 238.0 | | Total Col2Ave (4 peaks): | | | | 245.8 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 234.8 | | Corrected Ave (3 peaks): | | | | 244.8 RPD = 4 |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.445 | 0.000 | 32448447 | 240.6 | 1 | 10.419 | -0.001 | 15374420 | 246.3 |
| Aroclor-1260 | 2 | 10.818 | 0.000 | 79789414 | 238.4 | 2 | 10.869 | 0.000 | 19040837 | 245.6 |
| Aroclor-1260 | 3 | 11.219 | 0.000 | 44965237 | 241.7 | 3 | 11.142 | -0.001 | 38751698 | 246.2 |
| Aroclor-1260 | 4 | 11.335 | 0.000 | 19196731 | 240.3 | 4 | 11.663 | 0.000 | 11171047 | 243.1 |
| Aroclor-1260 | 5 | 11.408 | 0.000 | 23183613 | 243.1 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 240.8 | | Total Col2Ave (4 peaks): | | | | 245.3 RPD = 2 |
| Corrected Ave (4 peaks): | | | | 240.2 | | Corrected Ave (3 peaks): | | | | 245.0 RPD = 2 |

Total PCB Area Coll (4.706 - 12.890) = 920967238 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 481876009 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A005.d
Data file 2: 20120523.b/ical-2.b/0523A005.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 11:44
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | RT | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|--------|---------------|----------------|-----|----------------------|
| 4.606 | 0.000 50196565 | 4.605 -0.002 31937901 | 4.605 | 20.3 | 20.5 | 1.3 | Tetrachloro-m-xylene |
| 12.990 | 0.000 69662575 | 13.363 0.000 27363920 | 13.363 | 18.3 | 19.5 | 6.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.6 | 51.3 |
| Decachlorobiphenyl | 45.7 | 48.6 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 140291259 | 154228462 | 9.9 |
| Hexabromobiphenyl | 198372884 | 248602423 | 25.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 102590725 | 110618229 | 7.8 |
| Hexabromobiphenyl | 81487087 | 108855531 | 33.6 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A004.d
Data file 2: 20120523.b/ical-2.b/0523A004.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 23-MAY-2012 11:25
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|-----|----------------------|
| 4.607 | 0.002 88472017 | 4.607 0.000 60463357 | 36.4 | 39.1 | 7.3 | Tetrachloro-m-xylene |
| 12.990 | 0.000 126799730 | 13.363 0.000 51539444 | 34.1 | 37.1 | 8.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 90.9 | 97.8 |
| Decachlorobiphenyl | 85.2 | 92.7 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 151362399 | -1.9 |
| Hexabromobiphenyl | 248602423 | 242394135 | -2.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 109883399 | -0.7 |
| Hexabromobiphenyl | 108855531 | 107569893 | -1.2 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A004.d

IB

ZB5 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
|--------------------------|--------|--------|----------|-------|--------------------------|--------|--------|---------|------------|--------|
| Aroclor-1016 1 | 6.233 | -0.004 | 143511 | 2.3 | 1 | 6.340 | -0.003 | 18810 | 0.3 | |
| Aroclor-1016 2 | 6.625 | -0.013 | 121999 | 0.6 | 2 | 7.009 | 0.038 | 62382 | 0.5 | |
| Aroclor-1016 3 | 6.802 | 0.015 | 22523 | 0.3 | 3 | 7.357 | 0.004 | 20604 | 0.6 | |
| Aroclor-1016 4 | 6.897 | 0.001 | 671718 | 10.5 | 4 | 7.461 | 0.001 | 17257 | 0.5 | |
| Total CollAve (4 peaks): | | | | 3.4 | Total Col2Ave (4 peaks): | | | 0.5 | RPD = 152* | |
| Corrected Ave (3 peaks): | | | | 1.0 | Corrected Ave (3 peaks): | | | 0.4 | RPD = 85* | |
| Aroclor-1221 1 | 4.886 | 0.002 | 10162356 | 895.7 | 1 | 5.322 | 0.032 | 860678 | 49.7 | |
| Aroclor-1221 2 | 5.142 | -0.011 | 3123032 | 171.0 | 2 | 5.495 | -0.041 | 1060001 | 103.6 | |
| Aroclor-1221 3 | 5.361 | 0.103 | 644162 | 10.8 | 3 | 5.656 | 0.007 | 430631 | 13.5 | |
| Aroclor-1221 NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 359.1 | Total Col2Ave (3 peaks): | | | 55.6 | RPD = 146* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | |
| Aroclor-1232 1 | 6.233 | -0.006 | 143511 | 5.4 | 1 | 6.340 | -0.005 | 18810 | 0.7 | |
| Aroclor-1232 2 | 6.625 | -0.015 | 121999 | 1.4 | 2 | 7.009 | 0.038 | 62382 | 1.1 | |
| Aroclor-1232 3 | 6.802 | 0.014 | 22523 | 0.6 | 3 | 7.165 | -0.015 | 27331 | 1.5 | |
| Aroclor-1232 4 | 7.990 | 0.010 | 13064 | 0.4 | 4 | 8.322 | -0.003 | 72983 | 3.6 | |
| Total CollAve (4 peaks): | | | | 2.0 | Total Col2Ave (4 peaks): | | | 1.7 | RPD = 13 | |
| Corrected Ave (3 peaks): | | | | 0.8 | Corrected Ave (3 peaks): | | | 1.1 | RPD = 31 | |
| Aroclor-1242 1 | 6.233 | -0.004 | 143511 | 3.0 | 1 | 6.340 | -0.002 | 18810 | 0.4 | |
| Aroclor-1242 2 | 6.625 | -0.013 | 121999 | 0.8 | 2 | 7.009 | 0.038 | 62382 | 0.6 | |
| Aroclor-1242 3 | 6.802 | 0.015 | 22523 | 0.4 | 3 | 7.165 | -0.014 | 27331 | 0.7 | |
| Aroclor-1242 4 | 7.990 | 0.011 | 13064 | 0.2 | 4 | 8.322 | -0.003 | 72983 | 2.0 | |
| Total CollAve (4 peaks): | | | | 1.1 | Total Col2Ave (4 peaks): | | | 0.9 | RPD = 16 | |
| Corrected Ave (3 peaks): | | | | 0.4 | Corrected Ave (3 peaks): | | | 0.6 | RPD = 23 | |
| Aroclor-1248 1 | 6.625 | -0.010 | 121999 | 1.1 | 1 | 7.009 | 0.041 | 62382 | 0.9 | |
| Aroclor-1248 2 | 7.437 | 0.003 | 38250 | 0.5 | 2 | 7.872 | 0.001 | 23362 | 0.4 | |
| Aroclor-1248 3 | 7.990 | 0.010 | 13064 | 0.1 | 3 | 8.322 | -0.002 | 72983 | 1.1 | |
| Aroclor-1248 4 | 8.269 | -0.001 | 426946 | 4.1 | 4 | 8.704 | -0.042 | 400948 | 5.6 | |
| Total CollAve (4 peaks): | | | | 1.5 | Total Col2Ave (4 peaks): | | | 2.0 | RPD = 32 | |
| Corrected Ave (3 peaks): | | | | 0.6 | Corrected Ave (3 peaks): | | | 0.8 | RPD = 37 | |
| Aroclor-1254 1 | 8.351 | -0.003 | 215465 | 1.6 | 1 | 8.463 | -0.001 | 47481 | 1.0 | |
| Aroclor-1254 2 | 8.735 | 0.010 | 89533 | 1.0 | 2 | 8.638 | 0.001 | 55667 | 0.9 | |
| Aroclor-1254 3 | 8.861 | 0.000 | 158556 | 0.9 | 3 | 9.158 | -0.001 | 37595 | 0.8 | |
| Aroclor-1254 4 | 9.193 | -0.017 | 302955 | 1.6 | 4 | 9.348 | 0.039 | 108126 | 1.0 | |
| Aroclor-1254 5 | 9.609 | 0.037 | 44311 | 0.4 | 5 | 10.100 | 0.008 | 35462 | 0.6 | |
| Total CollAve (5 peaks): | | | | 1.1 | Total Col2Ave (5 peaks): | | | 0.9 | RPD = 24 | |
| Corrected Ave (4 peaks): | | | | 1.0 | Corrected Ave (4 peaks): | | | 0.8 | RPD = 16 | |
| Aroclor-1260 1 | 10.444 | 0.000 | 216419 | 1.6 | 1 | 10.419 | 0.000 | 79074 | 1.3 | |
| Aroclor-1260 2 | 10.818 | -0.001 | 692716 | 2.1 | 2 | 10.869 | 0.000 | 113228 | 1.5 | |
| Aroclor-1260 3 | 11.217 | 0.000 | 239883 | 1.3 | 3 | 11.143 | 0.000 | 187764 | 1.2 | |
| Aroclor-1260 4 | 11.332 | -0.001 | 130325 | 1.7 | 4 | 11.664 | 0.000 | 50271 | 1.1 | |
| Aroclor-1260 5 | 11.409 | 0.002 | 99286 | 1.1 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 1.6 | Total Col2Ave (4 peaks): | | | 1.3 | RPD = 21 | |
| Corrected Ave (4 peaks): | | | | 1.4 | Corrected Ave (3 peaks): | | | 1.2 | RPD = 17 | |
| Aroclor-1262 1 | 10.129 | 0.001 | 232634 | 1.2 | 1 | 10.419 | 0.000 | 79074 | 0.8 | |
| Aroclor-1262 2 | 10.444 | 0.000 | 216419 | 1.5 | 2 | 10.869 | -0.001 | 113228 | 1.3 | |
| Aroclor-1262 3 | 10.818 | -0.001 | 692716 | 1.7 | 3 | 11.143 | 0.001 | 187764 | 1.0 | |
| Aroclor-1262 4 | 11.332 | -0.002 | 130325 | 0.9 | 4 | 11.664 | 0.000 | 50271 | 0.6 | |
| Aroclor-1262 5 | 11.409 | 0.002 | 99286 | 0.6 | 5 | 12.505 | 0.042 | 529641 | 7.2 | |
| Total CollAve (5 peaks): | | | | 1.2 | Total Col2Ave (5 peaks): | | | 2.2 | RPD = 60* | |
| Corrected Ave (4 peaks): | | | | 1.0 | Corrected Ave (4 peaks): | | | 0.9 | RPD = 12 | |
| Aroclor-1268 1 | 11.332 | -0.003 | 130325 | 0.3 | 1 | 11.664 | 0.000 | 50271 | 0.2 | |
| Aroclor-1268 2 | 11.409 | 0.002 | 99286 | 0.2 | 2 | 11.723 | -0.008 | 114725 | 0.6 | |

| | | | | | | | | | |
|--------------------------|--------|--------|--------|--------------------------|---|--------|--------|----------|-----|
| rochlor-1268 3 | 11.798 | 0.005 | 119100 | 0.3 | 3 | 12.131 | 0.003 | 101538 | 0.6 |
| rochlor-1268 4 | 12.572 | -0.013 | 456122 | 0.4 | 4 | 12.945 | -0.005 | 80790 | 0.2 |
| Total Col1Ave (4 peaks): | | | 0.3 | Total Col2Ave (4 peaks): | | | 0.4 | RPD = 20 | |
| Corrected Ave (3 peaks): | | | 0.3 | Corrected Ave (3 peaks): | | | 0.3 | RPD = 12 | |

Total PCB Area Col1 (4.705 - 12.890) = 37858820

Total PCB Area Col2 (4.707 - 13.262) = 14856410

Col1 Total PCB = 0.0 ppm*

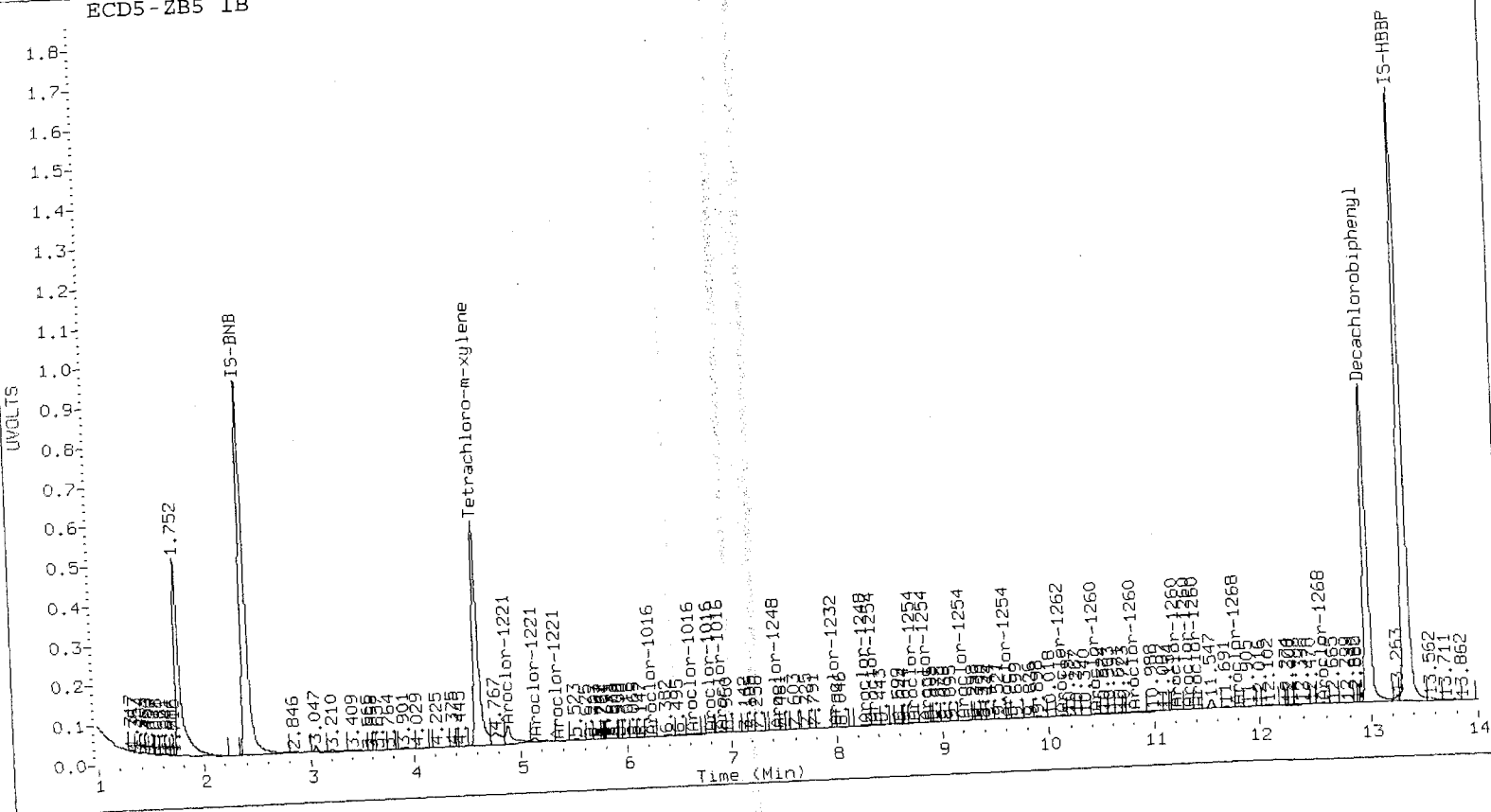
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

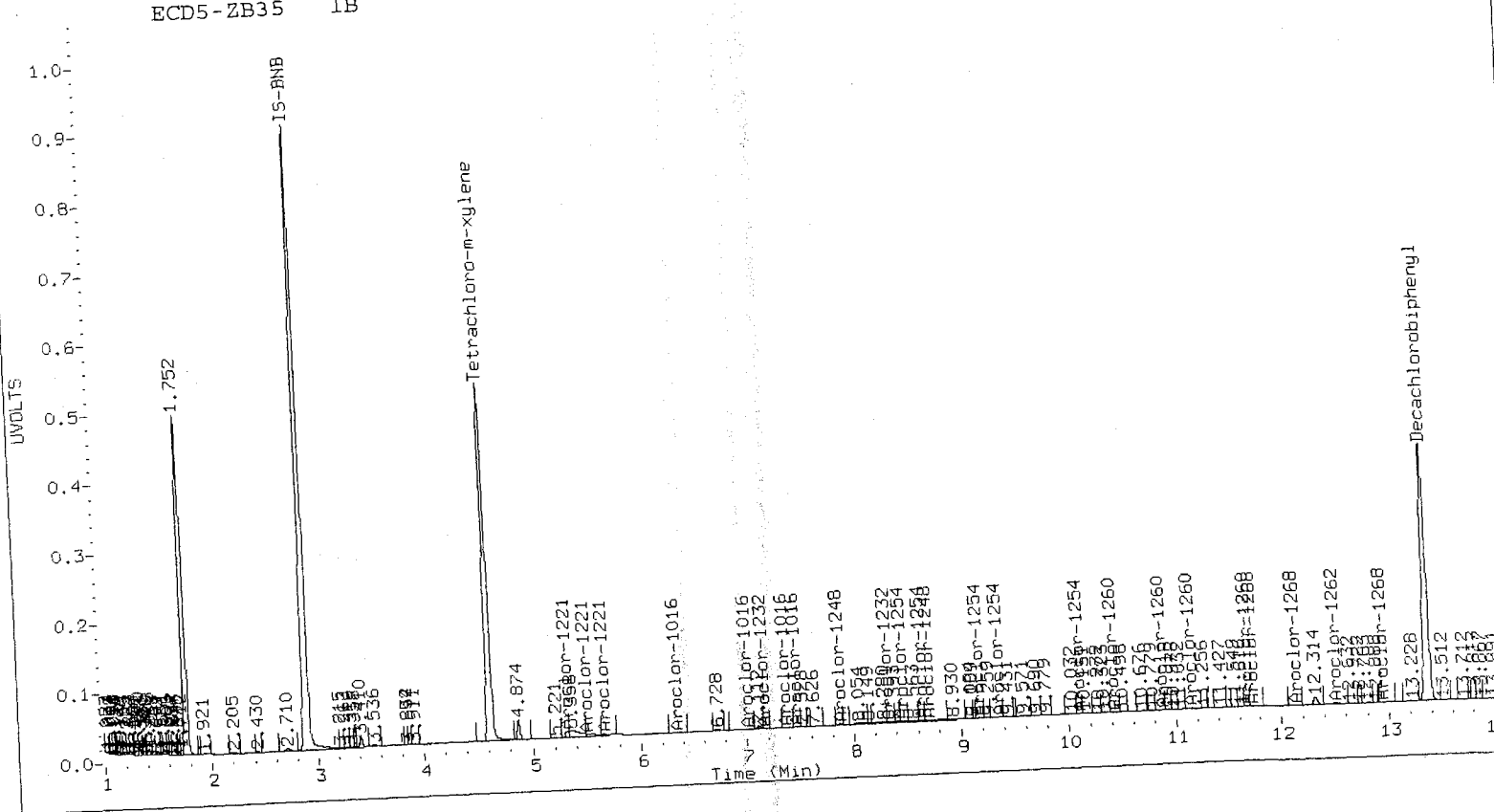
PCB-Form 10 Mod.

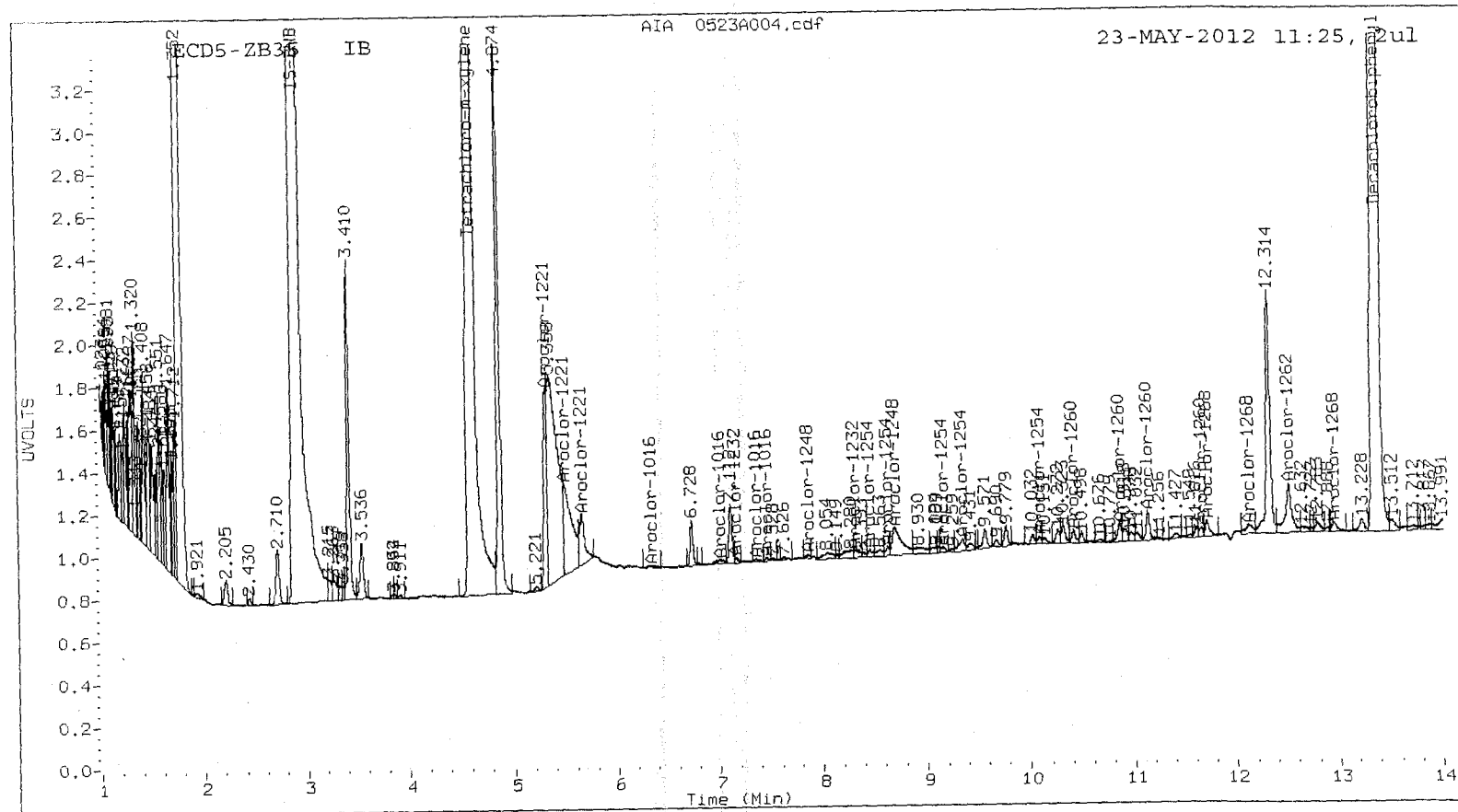
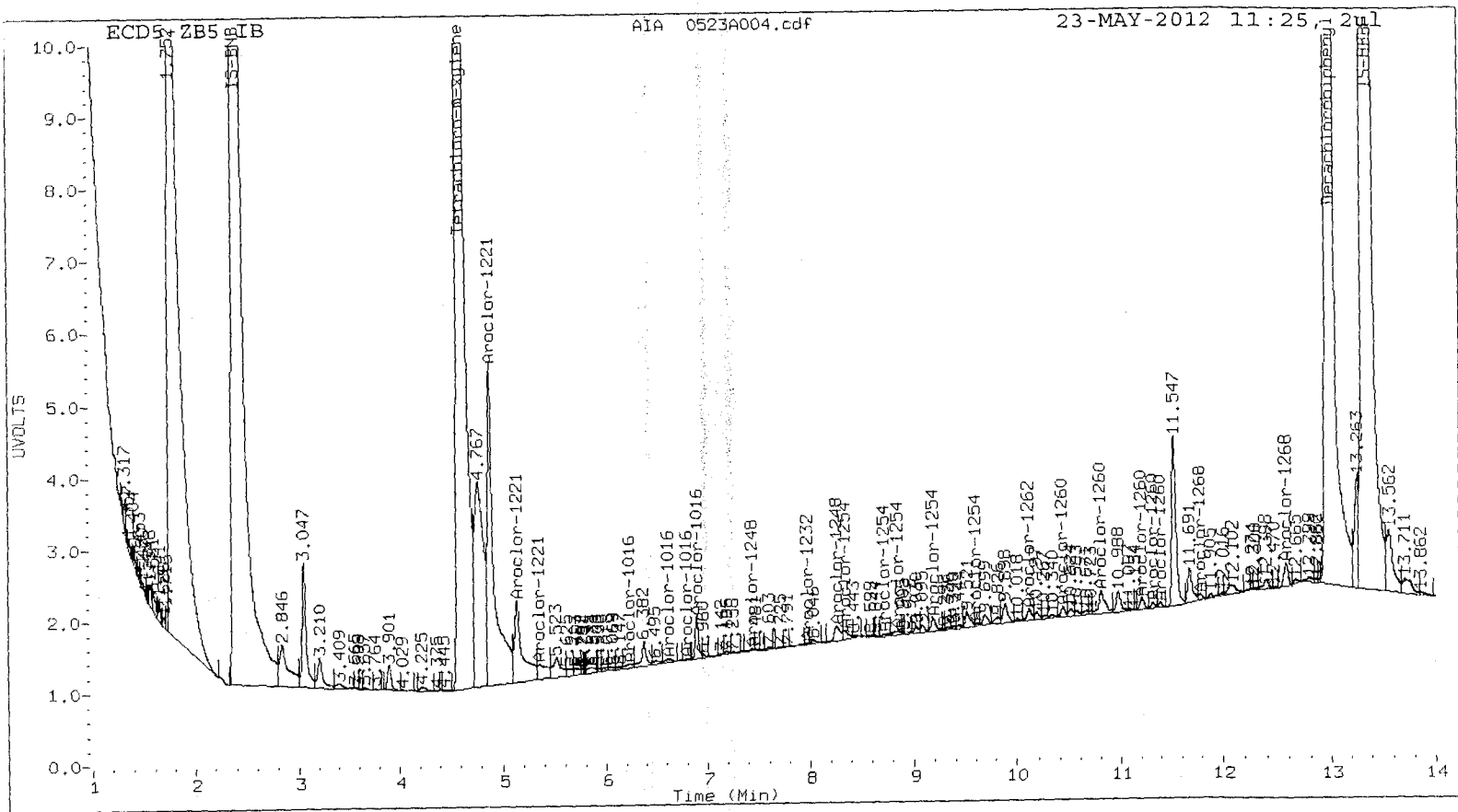
UU52:01606

ECD5-ZB5 IB



ECD5-ZB35 IB





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A005.d
Data file 2: 20120523.b/ical-2.b/0523A005.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 11:44
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|-----|----------------------|
| 4.606 | 0.001 50196565 | 4.605 -0.002 31937901 | 20.3 | 20.5 | 1.3 | Tetrachloro-m-xylene |
| 12.990 | -0.001 69662575 | 13.363 0.000 27363920 | 18.3 | 19.5 | 6.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.6 | 51.3 |
| Decachlorobiphenyl | 45.7 | 48.6 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 154228462 | 0.0 |
| Hexabromobiphenyl | 248602423 | 248602423 | 0.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 110618229 | 0.0 |
| Hexabromobiphenyl | 108855531 | 108855531 | 0.0 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|----------|--------|--------------------------|--------|--------|----------|---------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.238 | 0.001 | 15229482 | 236.7 | 1 | 6.343 | -0.001 | 14117449 | 244.5 | |
| Aroclor-1016 | 2 | 6.639 | 0.001 | 50991004 | 243.1 | 2 | 6.971 | 0.000 | 32617746 | 248.9 | |
| Aroclor-1016 | 3 | 6.788 | 0.001 | 20490162 | 247.7 | 3 | 7.353 | 0.000 | 8215755 | 243.0 | |
| Aroclor-1016 | 4 | 6.898 | 0.002 | 14633464 | 224.6 | 4 | 7.460 | 0.000 | 9277944 | 246.8 | |
| Total CollAve (4 peaks): | | | | 238.0 | | Total Col2Ave (4 peaks): | | | | 245.8 RPD = 3 | |
| Corrected Ave (3 peaks): | | | | 234.8 | | Corrected Ave (3 peaks): | | | | 244.8 RPD = 4 | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.445 | 0.001 | 32448447 | 240.6 | 1 | 10.419 | -0.001 | 15374420 | 246.3 | |
| Aroclor-1260 | 2 | 10.818 | 0.000 | 79789414 | 238.4 | 2 | 10.869 | 0.000 | 19040837 | 245.6 | |
| Aroclor-1260 | 3 | 11.219 | 0.002 | 44965237 | 241.7 | 3 | 11.142 | -0.001 | 38751698 | 246.2 | |
| Aroclor-1260 | 4 | 11.335 | 0.001 | 19196731 | 240.3 | 4 | 11.663 | 0.000 | 11171047 | 243.1 | |
| Aroclor-1260 | 5 | 11.408 | 0.000 | 23183613 | 243.1 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 240.8 | | Total Col2Ave (4 peaks): | | | | 245.3 RPD = 2 | |
| Corrected Ave (4 peaks): | | | | 240.2 | | Corrected Ave (3 peaks): | | | | 245.0 RPD = 2 | |

Total PCB Area Coll (4.705 - 12.890) = 920967238 Coll Total PCB = 0.5 ppm*

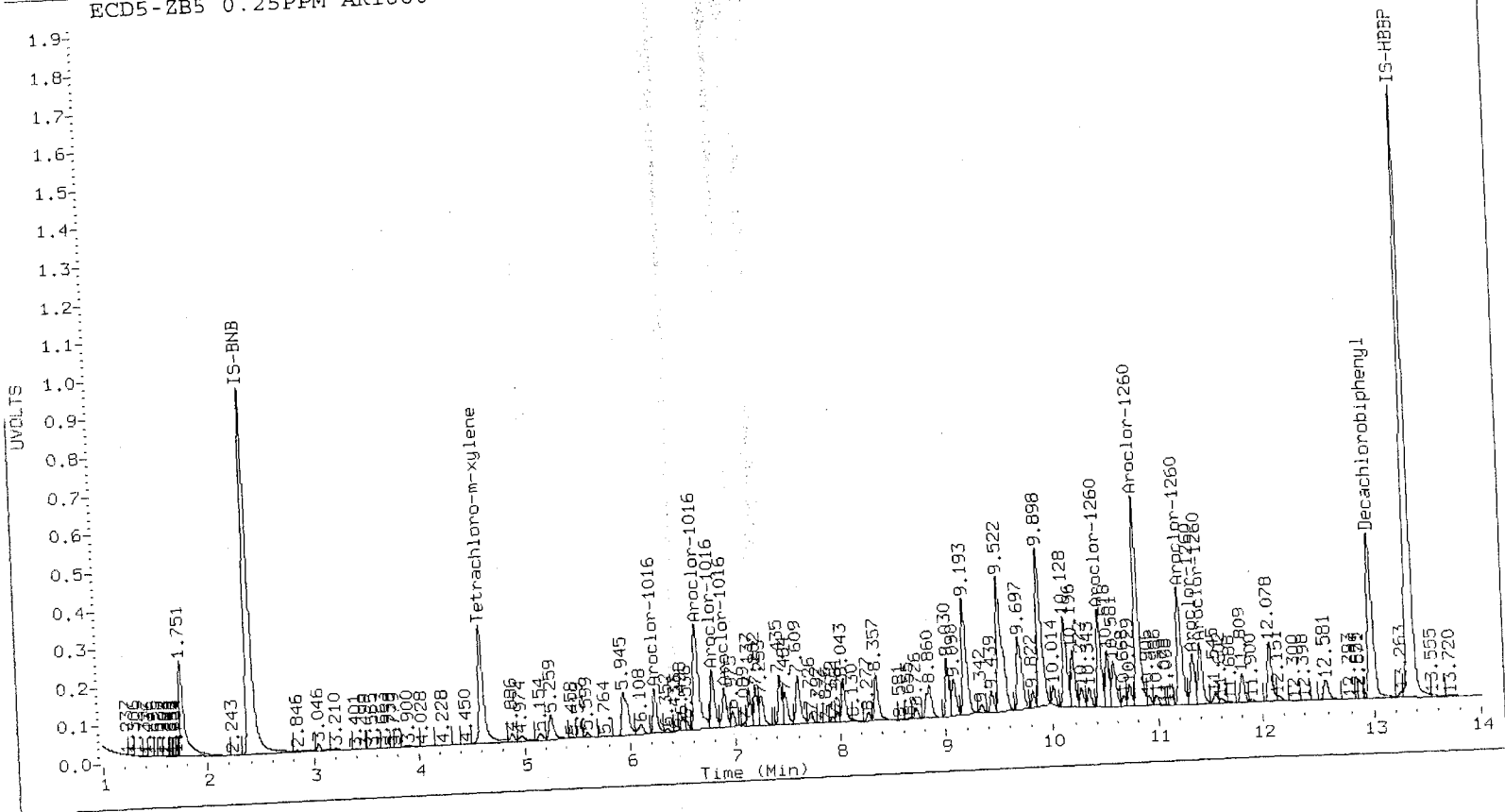
Total PCB Area Col2 (4.707 - 13.262) = 481876009 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 0.25PPM AR1660

AIA 0523A005.cdf

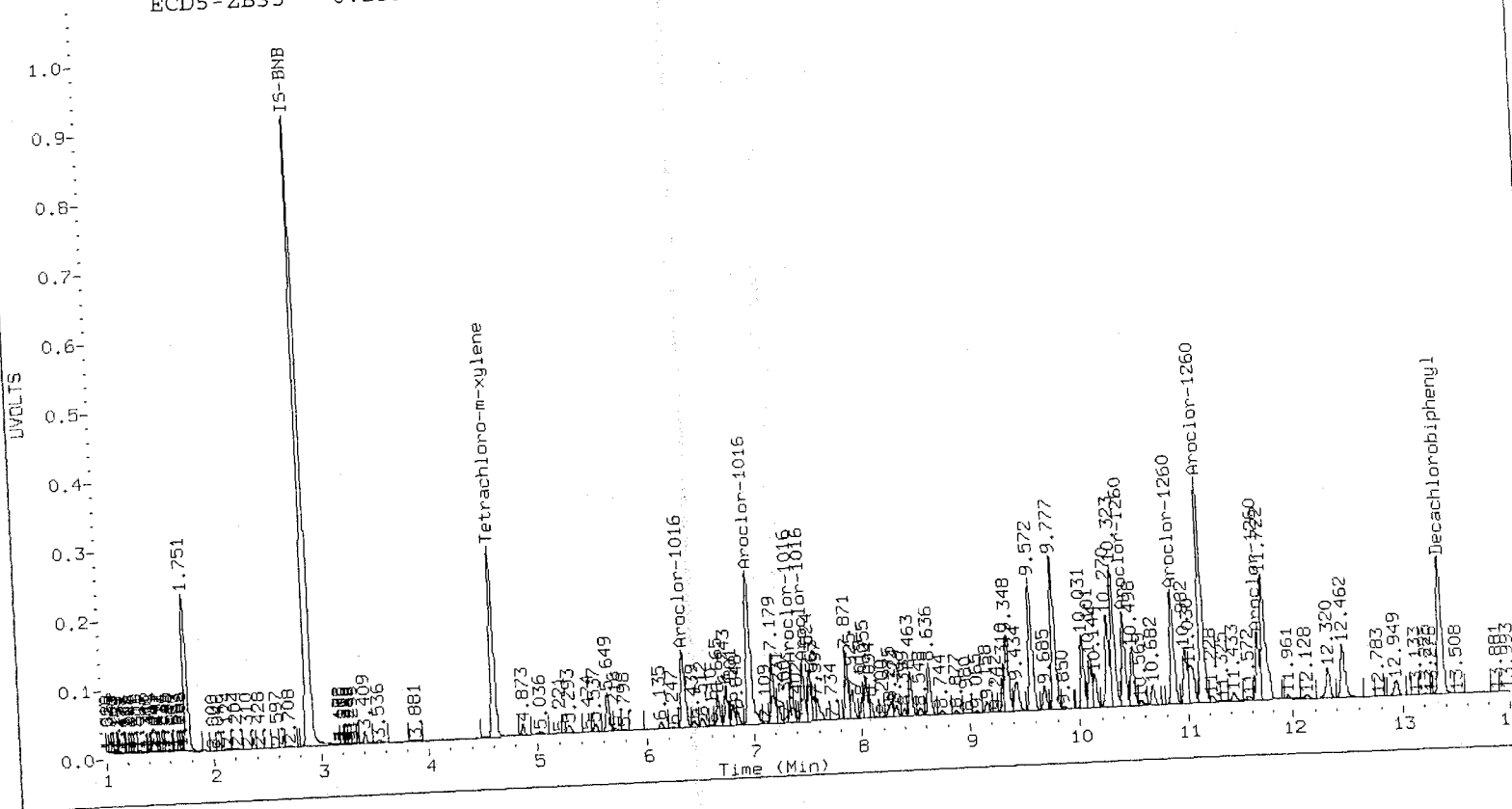
23-MAY-2012 11:44, 2u1



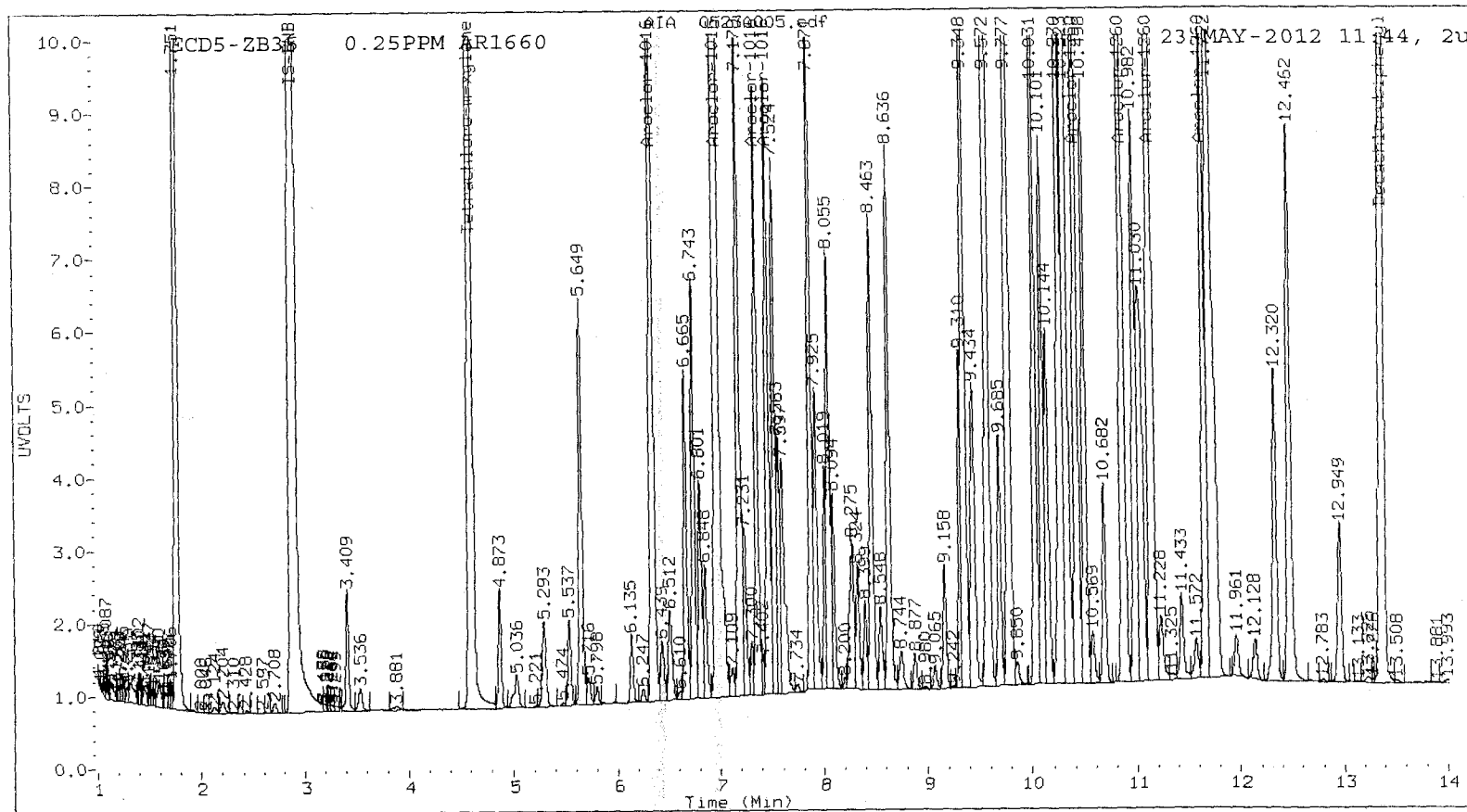
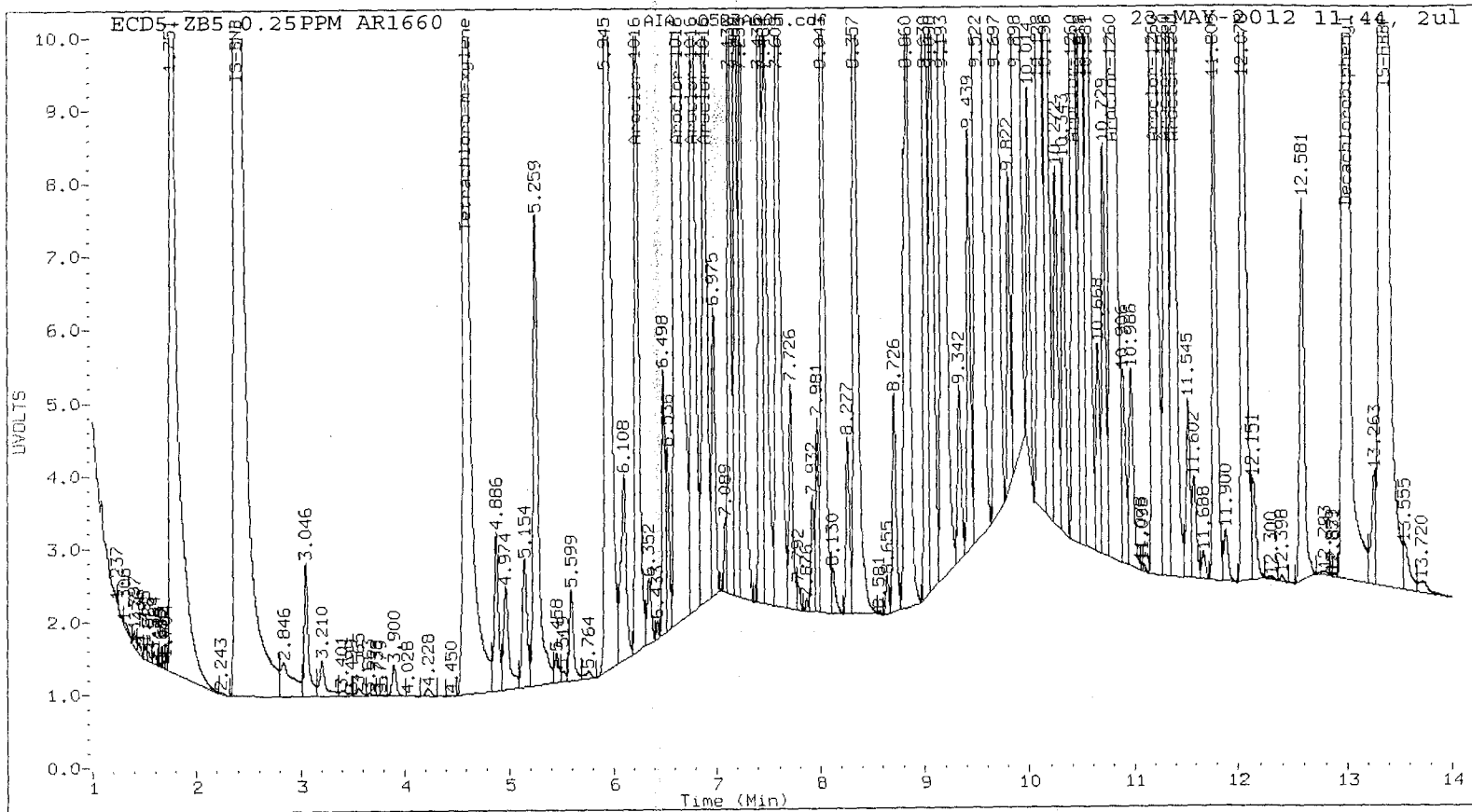
ECD5-ZB35 0.25PPM AR1660

AIA 0523A005.cdf

23-MAY-2012 11:44, 2u1



0052: 01511



Analytical Resources Inc.
Dual Column PCBs by SW8082

ARI ID: 0.02 PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 12:03
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

Data file 1: 20120523.b/ical-1.b/0523A006.d
Data file 2: 20120523.b/ical-2.b/0523A006.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

| RT | ZB5 Col Shift Response | RT | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|--------|----------------------------|---------------|----------------|------|----------------------|
| 4.604 | -0.001 4106869 | 4.606 | -0.001 2480564 | 1.6 | 1.6 | 2.4 | Tetrachloro-m-xylene |
| 12.989 | -0.001 7680143 | 13.364 | 0.001 2499588 | 2.0 | 1.8 | 12.2 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 4.1 | 4.0 |
| Decachlorobiphenyl | 5.1 | 4.5 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 155920235 | 1.1 |
| Hexabromobiphenyl | 248602423 | 247239477 | -0.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 110153498 | -0.4 |
| Hexabromobiphenyl | 108855531 | 108023463 | -0.8 |

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A006.d

0.02 PPM AR1660

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|---------|----------|--------------------------|--------|--------|---------|--------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 6.238 | 0.000 | 1625984 | 25.0 | 1 | 6.343 | -0.001 | 1360486 | 23.7 |
| Aroclor-1016 | 2 | 6.638 | 0.000 | 4801696 | 22.6 | 2 | 6.970 | 0.000 | 2918356 | 22.4 |
| Aroclor-1016 | 3 | 6.788 | 0.001 | 1705356 | 20.4 | 3 | 7.354 | 0.001 | 745747 | 22.1 |
| Aroclor-1016 | 4 | 6.897 | 0.001 | 1696976 | 25.8 | 4 | 7.460 | 0.000 | 827467 | 22.1 |
| Total CollAve (4 peaks): | | | | 23.4 | | Total Col2Ave (4 peaks): | | | | 22.6 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 22.7 | | Corrected Ave (3 peaks): | | | | 22.2 RPD = 2 |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.444 | 0.000 | 3231721 | 24.1 | 1 | 10.419 | 0.000 | 1367036 | 22.1 |
| Aroclor-1260 | 2 | 10.819 | 0.000 | 8001232 | 24.0 | 2 | 10.870 | 0.000 | 1714628 | 22.3 |
| Aroclor-1260 | 3 | 11.218 | 0.001 | 4359743 | 23.6 | 3 | 11.142 | -0.001 | 3433919 | 22.0 |
| Aroclor-1260 | 4 | 11.335 | 0.001 | 1893013 | 23.8 | 4 | 11.664 | 0.000 | 1037164 | 22.7 |
| Aroclor-1260 | 5 | 11.409 | 0.001 | 2191104 | 23.1 | NS | --- | --- | --- | --- |
| Total CollAve (5 peaks): | | | | 23.7 | | Total Col2Ave (4 peaks): | | | | 22.3 RPD = 6 |
| Corrected Ave (4 peaks): | | | | 23.6 | | Corrected Ave (3 peaks): | | | | 22.1 RPD = 7 |

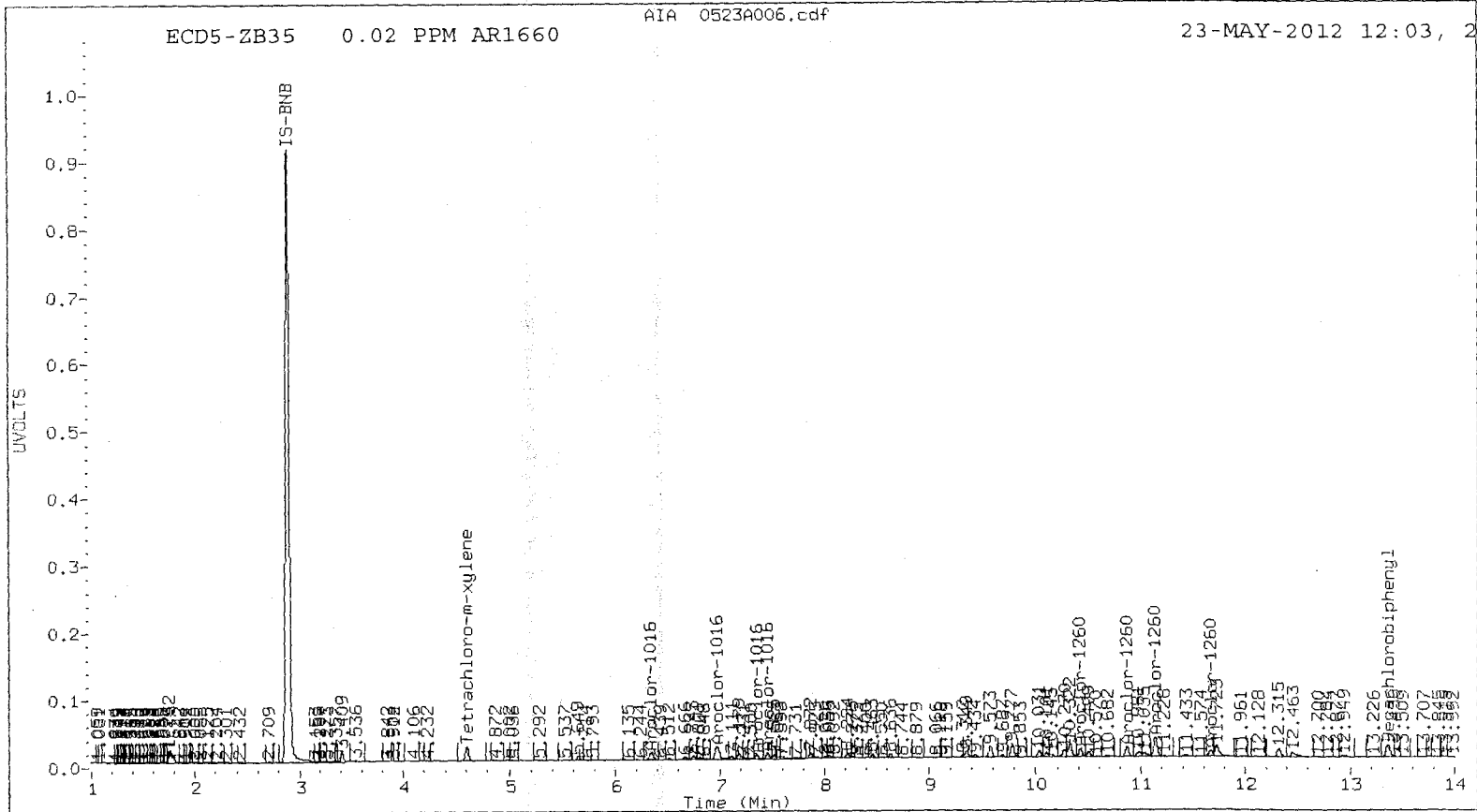
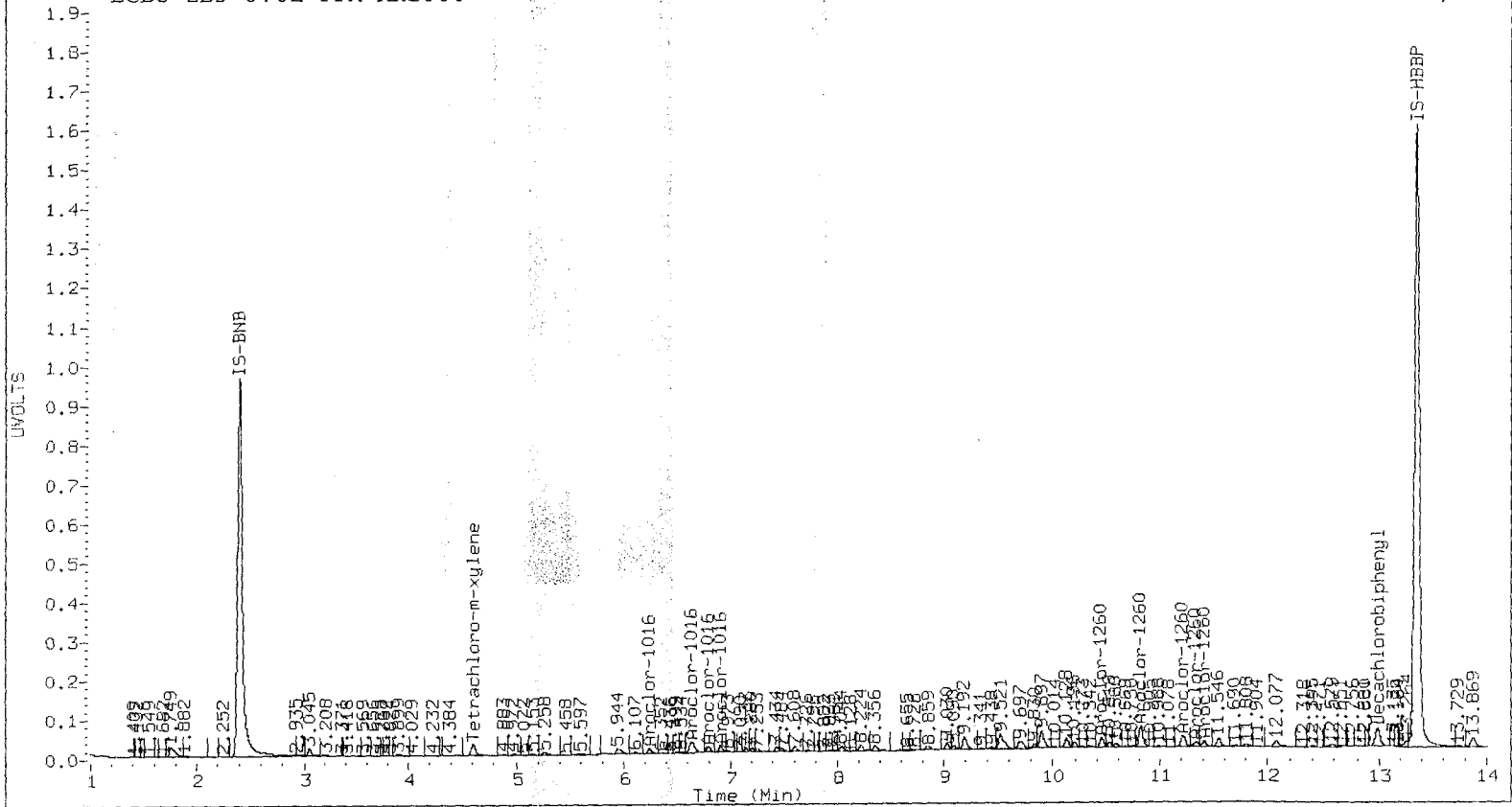
Total PCB Area Coll (4.705 - 12.890) = 98480959

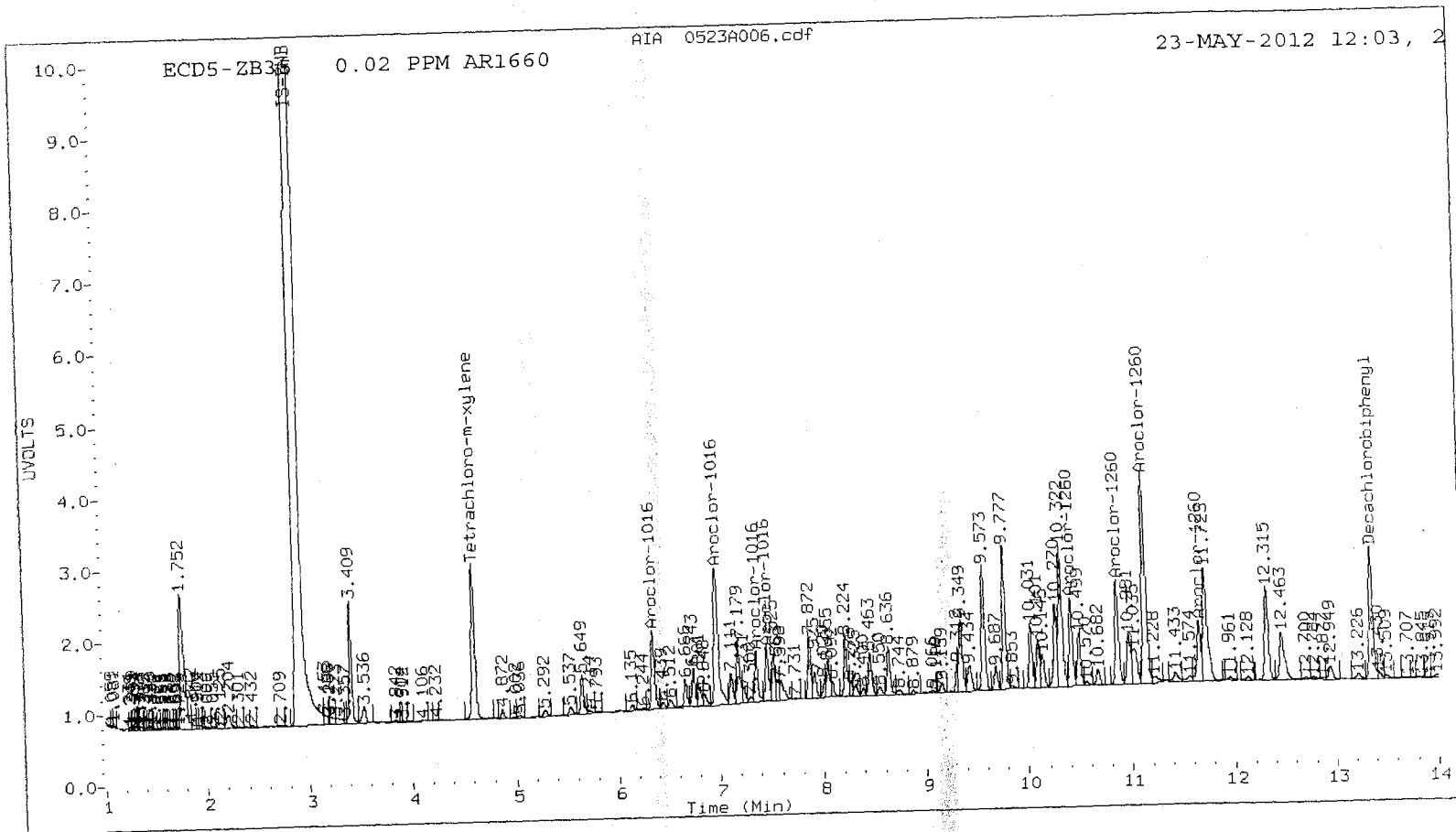
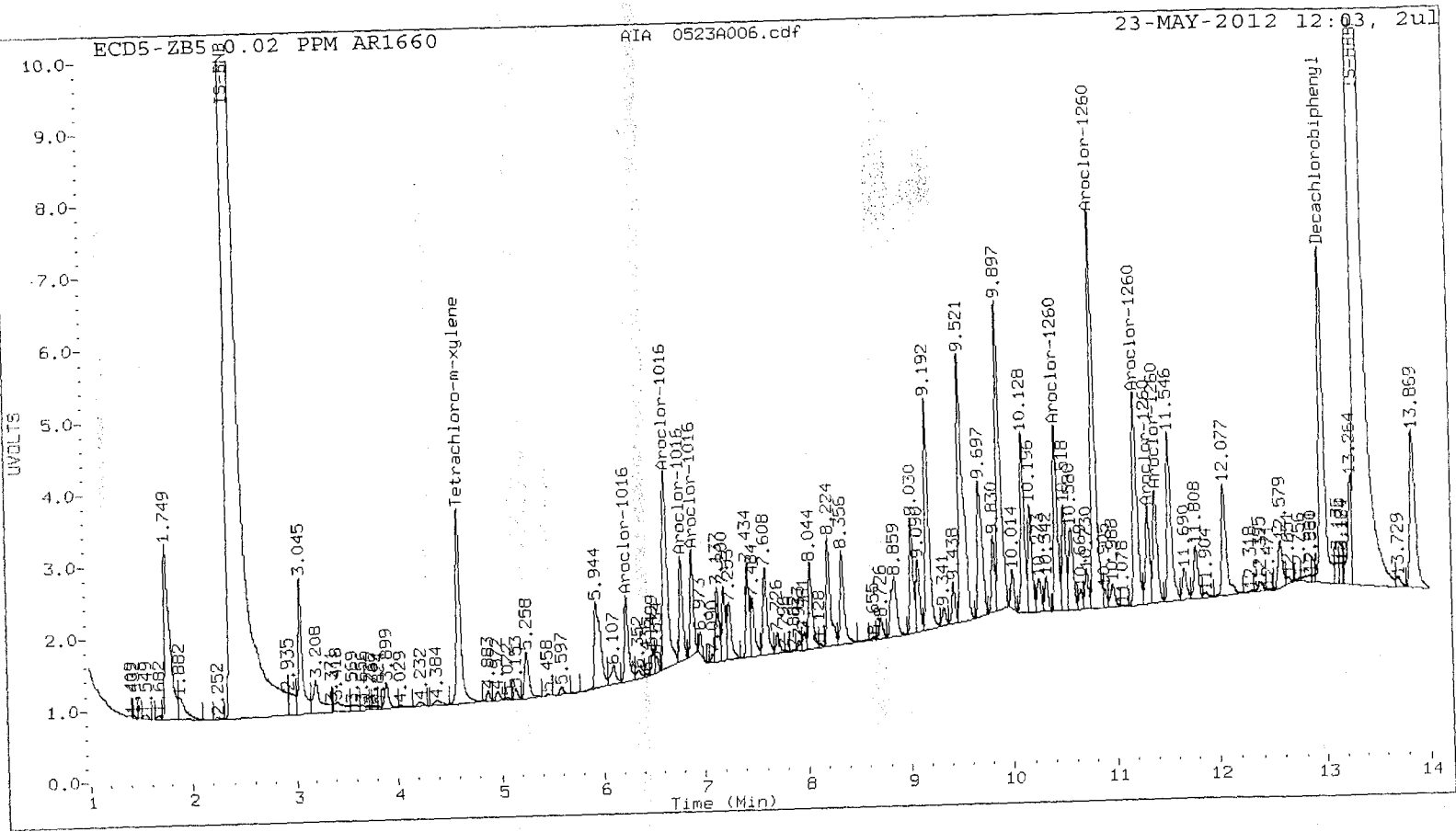
Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 46879567

Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical





UVOLTS: 01016

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A007.d
Data file 2: 20120523.b/ical-2.b/0523A007.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05 PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 12:22
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | RT | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------------|--------|-------------------------|------------|-------------|-----|----------------------|
| 4.604 | -0.001 10962186 | 4.605 | -0.002 6534992 | 4.2 | 4.1 | 4.2 | Tetrachloro-m-xylene |
| 12.989 | -0.002 18286950 | 13.363 | 0.000 6267012 | 4.6 | 4.3 | 6.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 10.6 | 10.2 |
| Decachlorobiphenyl | 11.5 | 10.8 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 160667727 | 4.2 |
| Hexabromobiphenyl | 248602423 | 259094728 | 4.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 114159374 | 3.2 |
| Hexabromobiphenyl | 108855531 | 112747731 | 3.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A007.d

0.05 PPM AR1660

| | | ZB5 Col | | | ZB35 Col | | | Area | Amount | | |
|--------------------------|-------|---------|--------|----------|----------|--------------------------|--------|--------|---------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.238 | 0.001 | 3688038 | 55.0 | 1 | 6.342 | -0.002 | 3315376 | 55.6 | |
| Aroclor-1016 | 2 | 6.638 | 0.000 | 12412178 | 56.8 | 2 | 6.969 | -0.001 | 7318862 | 54.1 | |
| Aroclor-1016 | 3 | 6.787 | 0.001 | 4967870 | 57.6 | 3 | 7.353 | 0.000 | 1854416 | 53.1 | |
| Aroclor-1016 | 4 | 6.897 | 0.001 | 3892311 | 57.3 | 4 | 7.460 | 0.000 | 2068016 | 53.3 | |
| Total Col1Ave (4 peaks): | | | | 56.7 | | Total Col2Ave (4 peaks): | | | | 54.1 | RPD = 5 |
| Corrected Ave (3 peaks): | | | | 56.4 | | Corrected Ave (3 peaks): | | | | 53.5 | RPD = 5 |
| Aroclor-1260 | 1 | 10.444 | 0.000 | 7812618 | 55.6 | 1 | 10.419 | -0.001 | 3445125 | 53.3 | |
| Aroclor-1260 | 2 | 10.818 | -0.001 | 19225963 | 55.1 | 2 | 10.869 | 0.000 | 4251651 | 53.0 | |
| Aroclor-1260 | 3 | 11.218 | 0.001 | 10699659 | 55.2 | 3 | 11.142 | -0.001 | 8632531 | 52.9 | |
| Aroclor-1260 | 4 | 11.334 | 0.000 | 4602037 | 55.3 | 4 | 11.663 | -0.001 | 2490191 | 52.3 | |
| Aroclor-1260 | 5 | 11.408 | 0.000 | 5447767 | 54.8 | NS | --- | --- | --- | --- | |
| Total Col1Ave (5 peaks): | | | | 55.2 | | Total Col2Ave (4 peaks): | | | | 52.9 | RPD = 4 |
| Corrected Ave (4 peaks): | | | | 55.1 | | Corrected Ave (3 peaks): | | | | 52.7 | RPD = 4 |

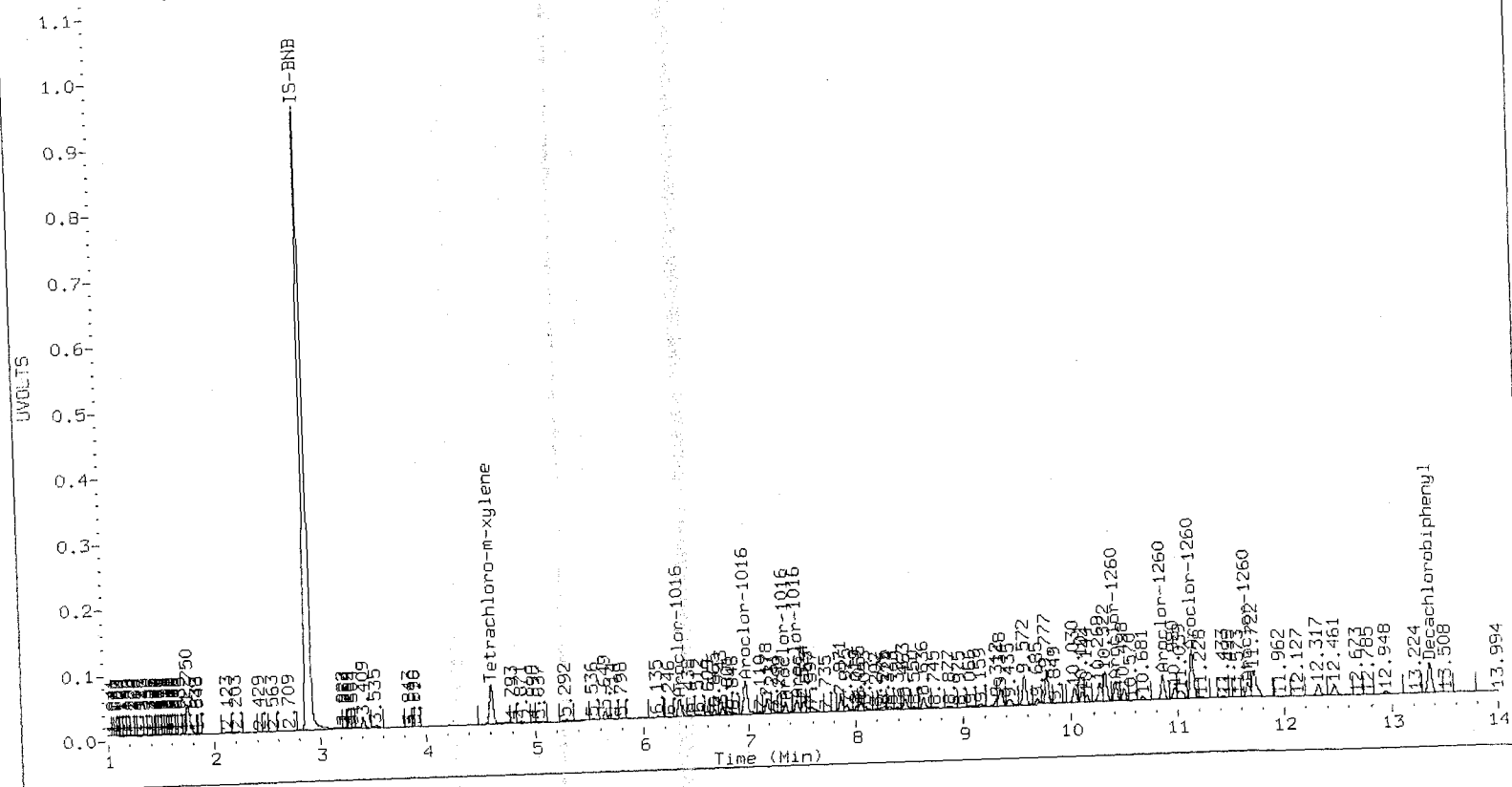
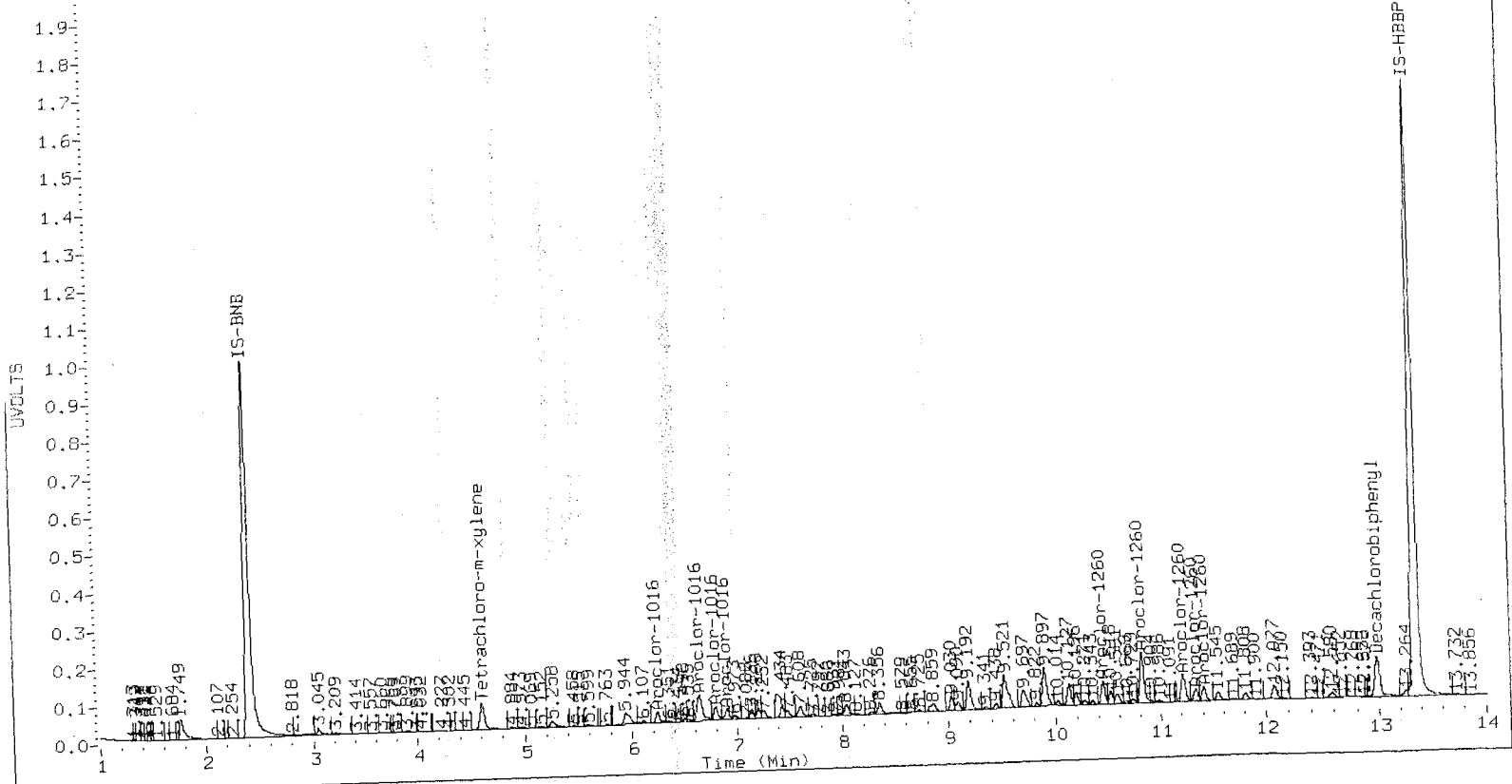
Total PCB Area Col1 (4.705 - 12.890) = 225927277

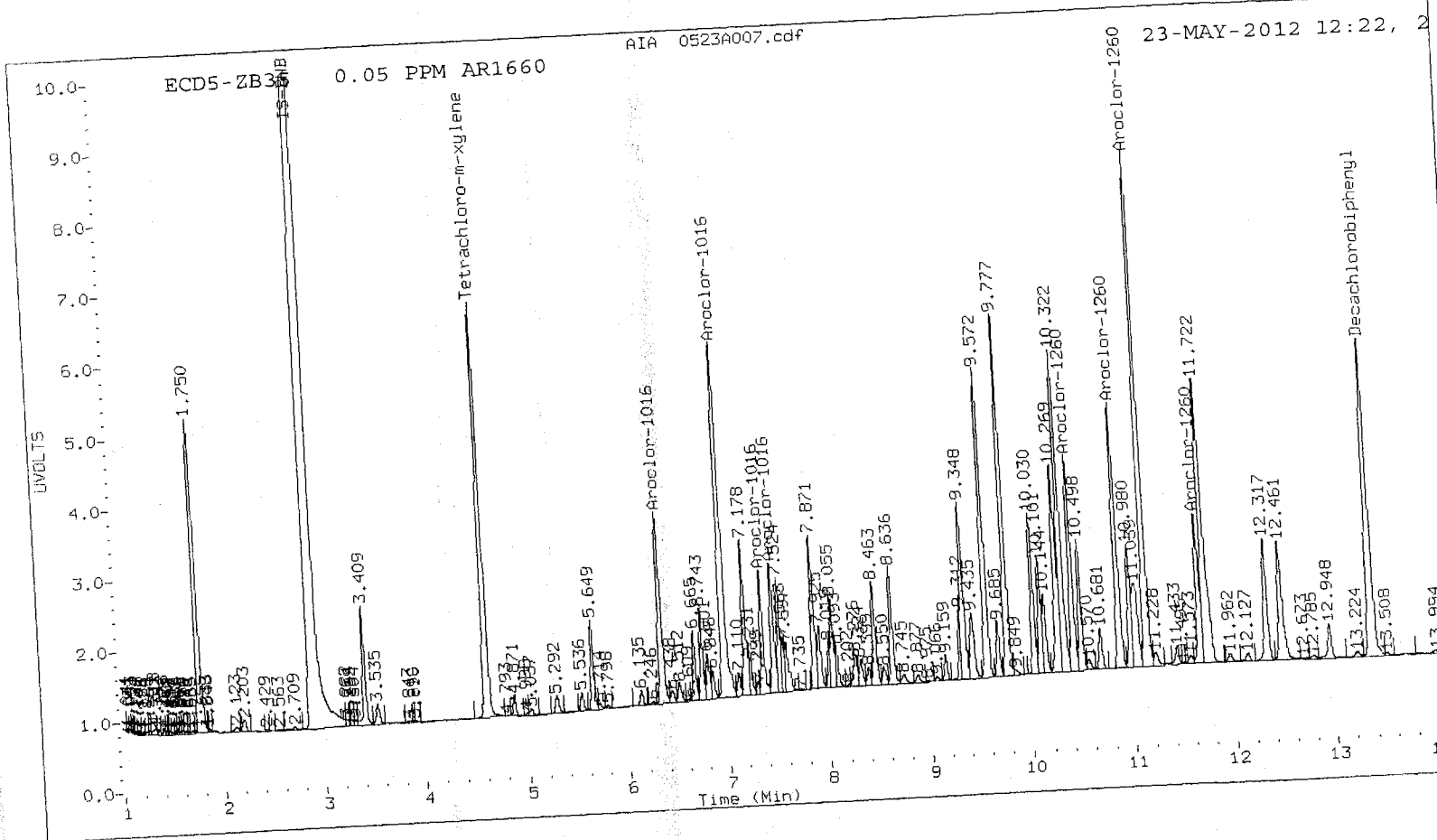
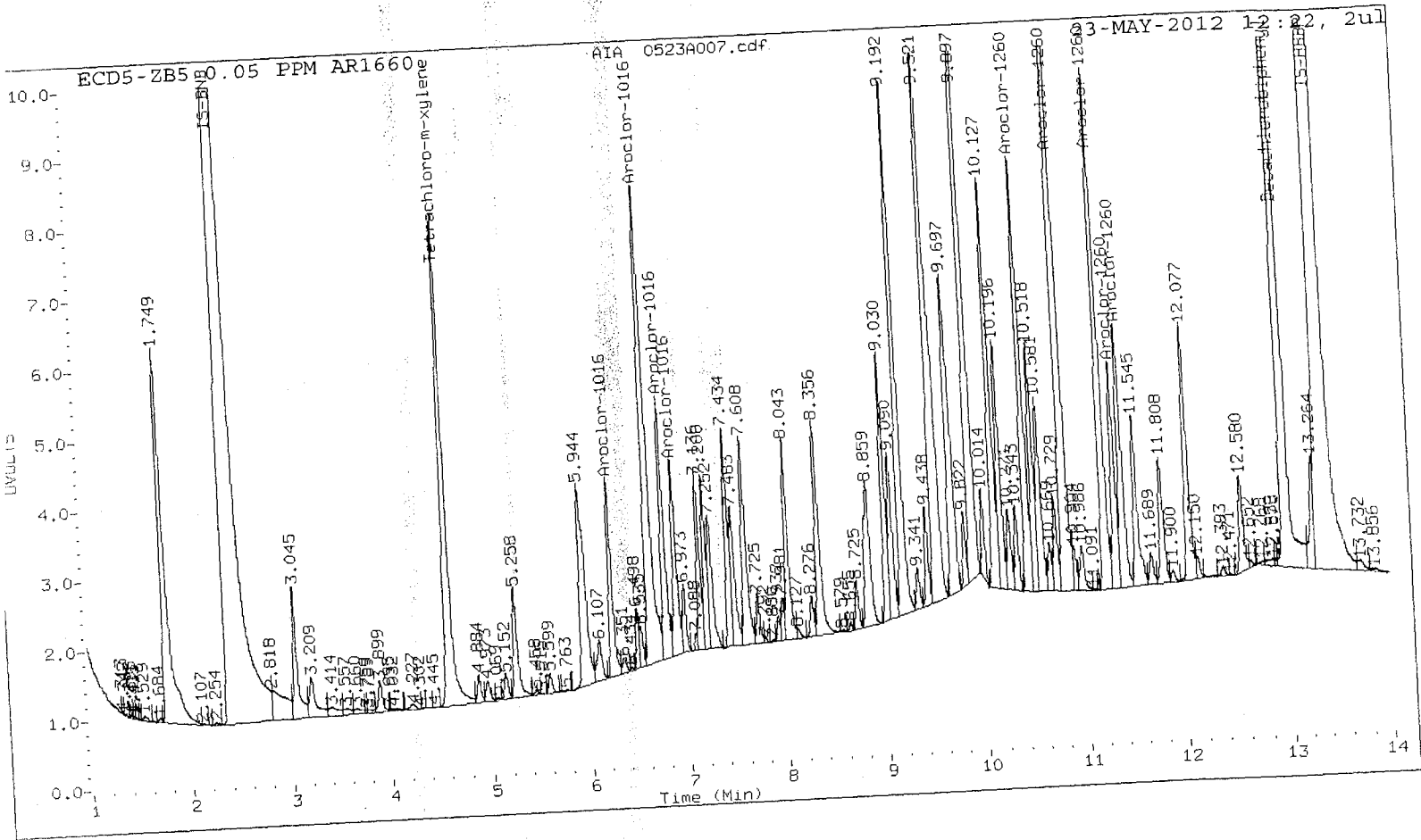
Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 108968491

Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A008.d
Data file 2: 20120523.b/ical-2.b/0523A008.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 1 PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 12:41
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|-----------|----------|-------|-----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.606 | 0.000 | 171242598 | 4.607 | 0.000 | 111786715 | 70.3 | 73.6 | 4.5 | Tetrachloro-m-xylene |
| 12.991 | 0.001 | 239712870 | 13.363 | 0.001 | 96699362 | 62.4 | 68.9 | 9.9 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|-------|-------|
| Tetrachloro-m-xylene | 175.8 | 183.9 |
| Decachlorobiphenyl | 156.0 | 172.3 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 151523547 | -1.8 |
| Hexabromobiphenyl | 248602423 | 250278423 | 0.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 108018292 | -2.4 |
| Hexabromobiphenyl | 108855531 | 108555775 | -0.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A008.d

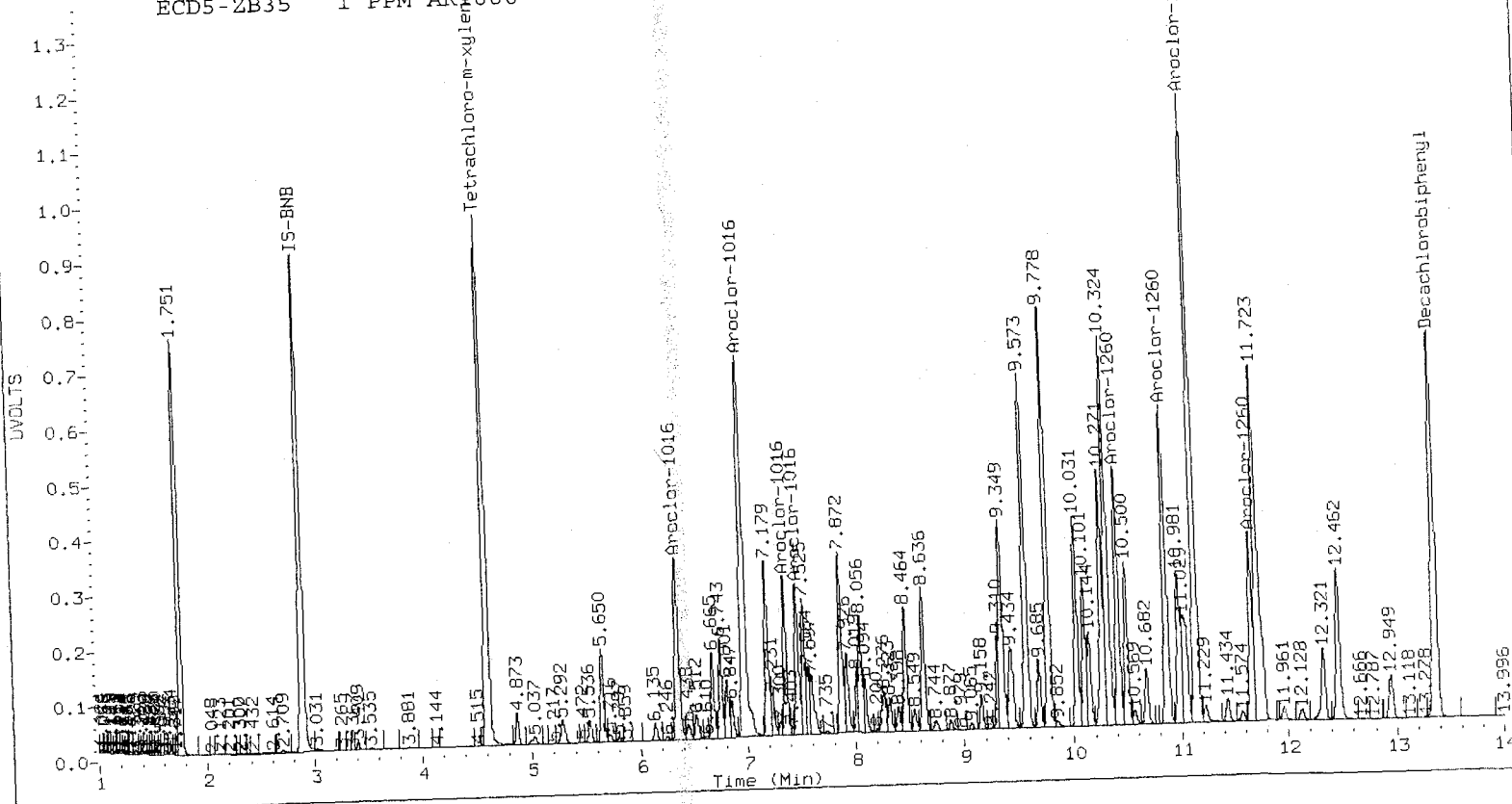
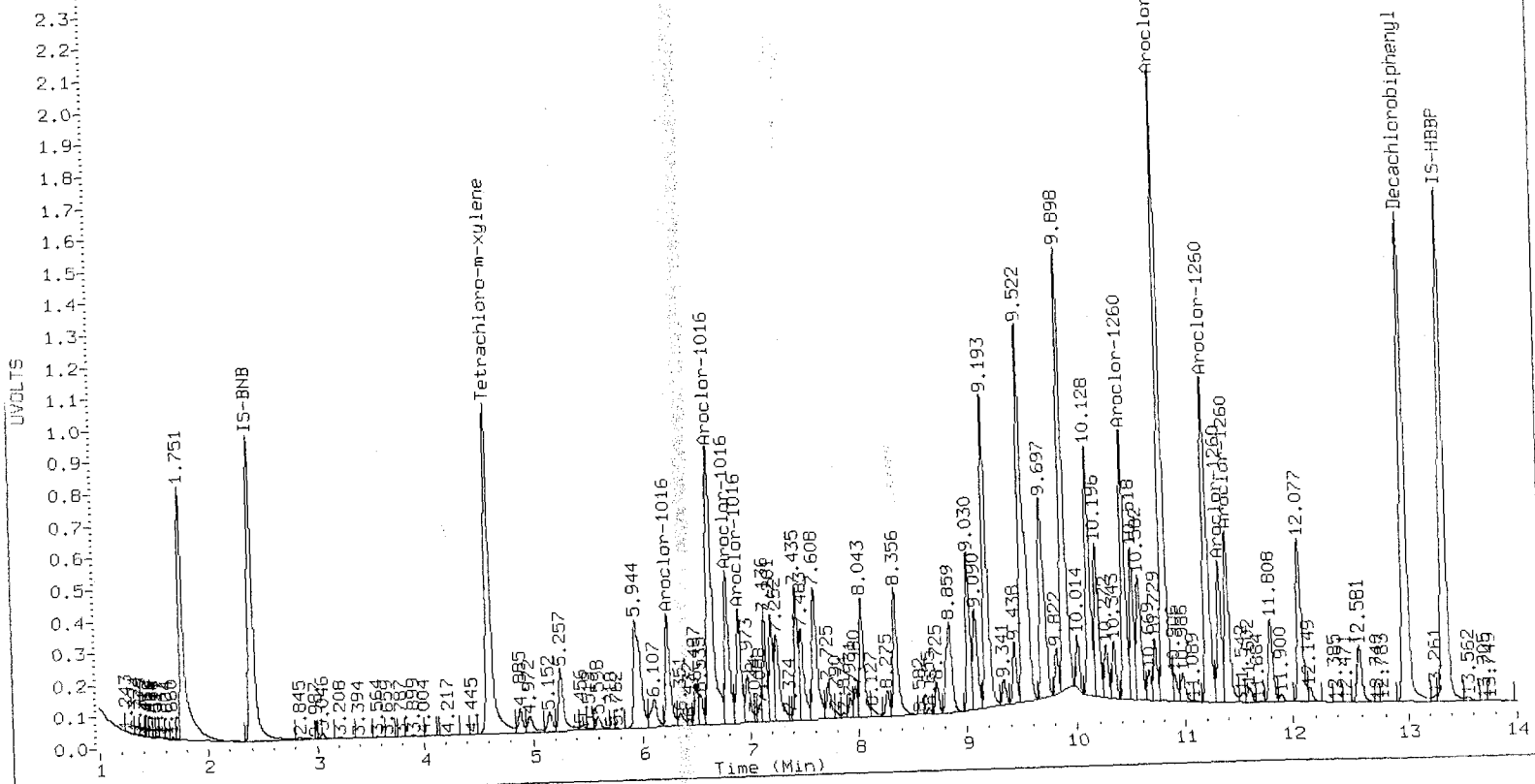
1 PPM AR1660

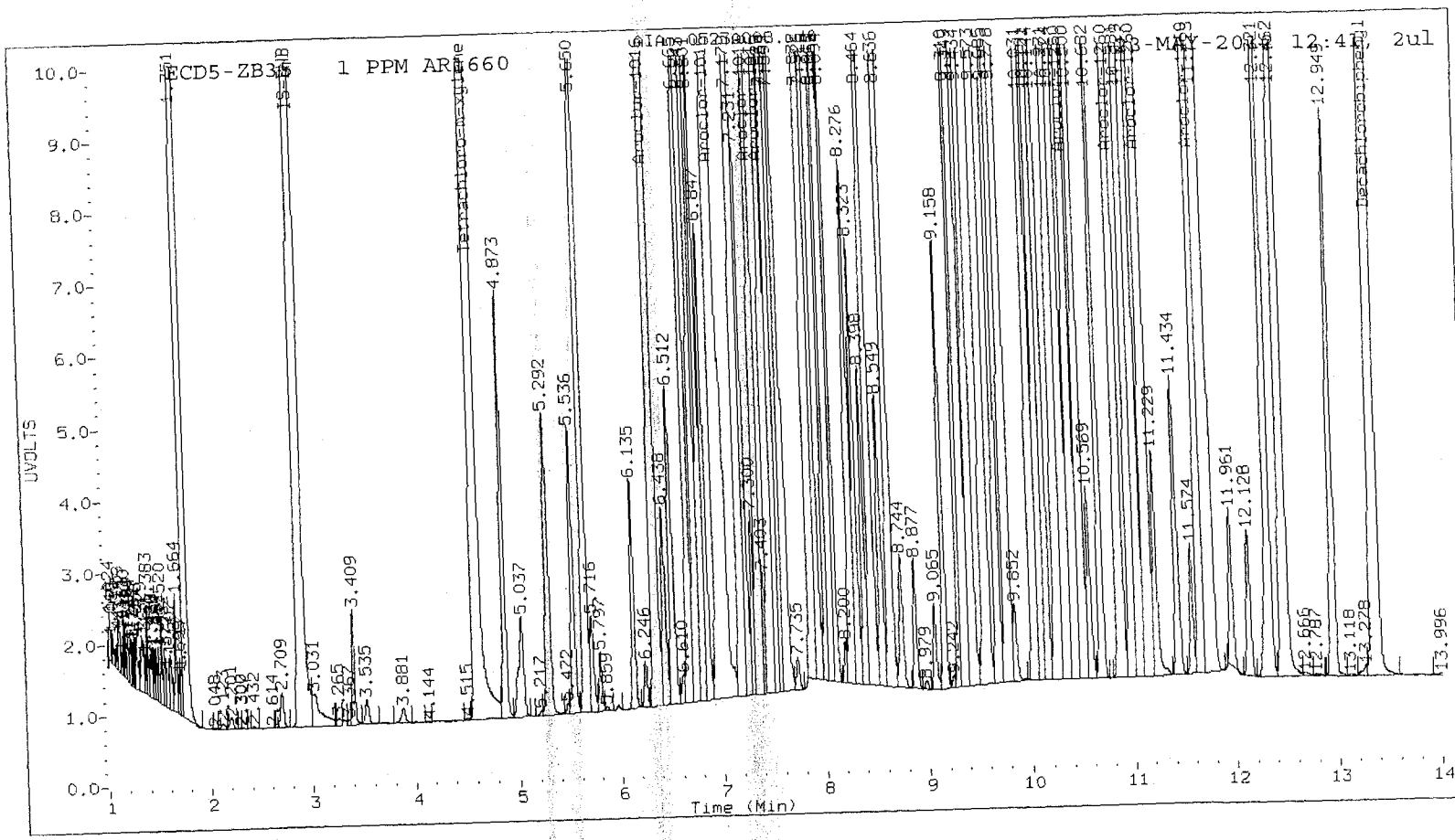
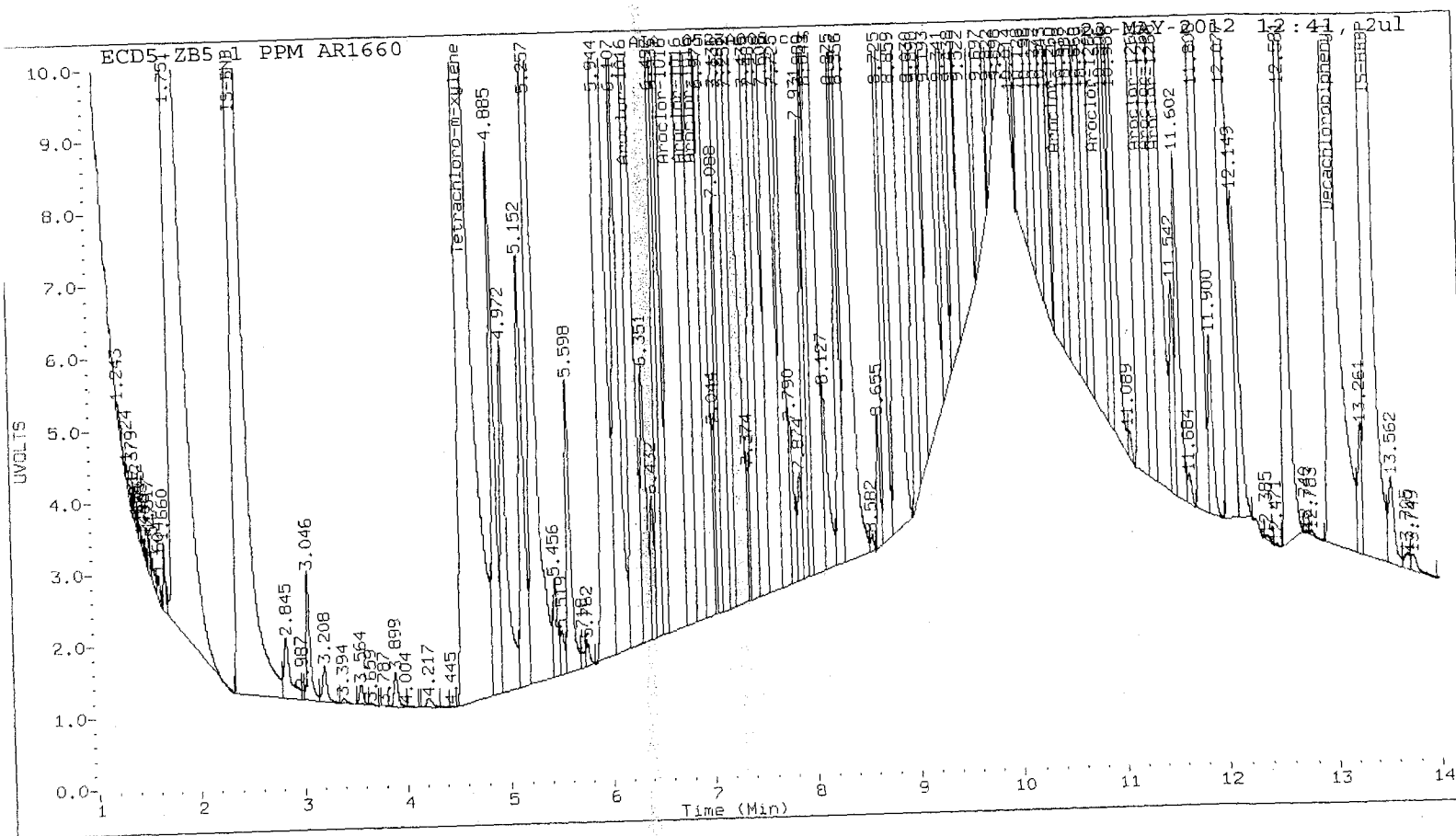
| | | ZB5 Col | | | ZB35 Col | | | Area | Amount | | |
|--------------------------|-------|---------|-------|-----------|----------|--------------------------|--------|-------|-----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.238 | 0.001 | 50472593 | 798.4 | 1 | 6.344 | 0.000 | 42845505 | 760.0 | |
| Aroclor-1016 | 2 | 6.639 | 0.001 | 165465405 | 803.0 | 2 | 6.971 | 0.001 | 104650973 | 817.8 | |
| Aroclor-1016 | 3 | 6.786 | 0.000 | 68577484 | 843.8 | 3 | 7.353 | 0.000 | 28579145 | 865.6 | |
| Aroclor-1016 | 4 | 6.896 | 0.000 | 53578979 | 836.9 | 4 | 7.461 | 0.000 | 31334652 | 853.6 | |
| Total CollAve (4 peaks): | | | | 820.5 | | Total Col2Ave (4 peaks): | | | | 824.2 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 812.7 | | Corrected Ave (3 peaks): | | | | 810.4 | RPD = 0 |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.445 | 0.001 | 107245854 | 789.8 | 1 | 10.420 | 0.000 | 53445445 | 858.4 | |
| Aroclor-1260 | 2 | 10.820 | 0.001 | 277450558 | 823.4 | 2 | 10.870 | 0.001 | 66684752 | 862.6 | |
| Aroclor-1260 | 3 | 11.218 | 0.001 | 152126553 | 812.2 | 3 | 11.142 | 0.000 | 136856057 | 871.8 | |
| Aroclor-1260 | 4 | 11.334 | 0.000 | 64878438 | 806.8 | 4 | 11.664 | 0.000 | 40209436 | 877.4 | |
| Aroclor-1260 | 5 | 11.408 | 0.001 | 78954416 | 822.3 | NS | | | | | |
| Total CollAve (5 peaks): | | | | 810.9 | | Total Col2Ave (4 peaks): | | | | 867.6 | RPD = 7 |
| Corrected Ave (4 peaks): | | | | 807.8 | | Corrected Ave (3 peaks): | | | | 864.3 | RPD = 7 |

Total PCB Area Col1 (4.705 - 12.890) = 3117858984
 Total PCB Area Col2 (4.707 - 13.262) = 1662675962

Col1 Total PCB = 1.7 ppm*
 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A009.d
Data file 2: 20120523.b/ical-2.b/0523A009.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1 PPM AR1660
Client ID:
Injection Date: 23-MAY-2012 13:01
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | RT | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|--------|---------------|----------------|-----|----------------------|
| 4.604 | -0.001 22212362 | -0.003 13478289 | 4.604 | 8.6 | 8.5 | 1.8 | Tetrachloro-m-xylene |
| 12.989 | -0.002 33632302 | 0.000 12137716 | 13.363 | 8.4 | 8.4 | 0.0 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 21.5 | 21.1 |
| Decachlorobiphenyl | 21.0 | 21.0 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 160526987 | 4.1 |
| Hexabromobiphenyl | 248602423 | 260875166 | 4.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 113263758 | 2.4 |
| Hexabromobiphenyl | 108855531 | 111845806 | 2.7 |

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------|--------------------------|--------|--------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.237 | 0.000 | 7097377 | 106.0 | 1 | 6.343 | -0.001 | 6450679 | 109.1 | |
| Aroclor-1016 | 2 | 6.638 | 0.000 | 23837595 | 109.2 | 2 | 6.969 | -0.001 | 14395191 | 107.3 | |
| Aroclor-1016 | 3 | 6.786 | 0.000 | 9574862 | 111.2 | 3 | 7.353 | 0.000 | 3678916 | 106.3 | |
| Aroclor-1016 | 4 | 6.897 | 0.001 | 6895678 | 101.7 | 4 | 7.460 | -0.001 | 4083078 | 106.1 | |
| Total Col1Ave (4 peaks): | | | | 107.0 | | Total Col2Ave (4 peaks): | | | | 107.2 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 105.6 | | Corrected Ave (3 peaks): | | | | 106.5 | RPD = 1 |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.443 | -0.001 | 14940984 | 105.6 | 1 | 10.418 | -0.001 | 6750271 | 105.2 | |
| Aroclor-1260 | 2 | 10.818 | -0.001 | 36687247 | 104.5 | 2 | 10.869 | -0.001 | 8321056 | 104.5 | |
| Aroclor-1260 | 3 | 11.217 | 0.000 | 20579023 | 105.4 | 3 | 11.141 | -0.001 | 16940324 | 104.7 | |
| Aroclor-1260 | 4 | 11.333 | 0.000 | 8821100 | 105.2 | 4 | 11.663 | -0.001 | 4860811 | 102.9 | |
| Aroclor-1260 | 5 | 11.407 | 0.000 | 10542022 | 105.3 | NS | --- | | | ---- | |
| Total Col1Ave (5 peaks): | | | | 105.2 | | Total Col2Ave (4 peaks): | | | | 104.3 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 105.1 | | Corrected Ave (3 peaks): | | | | 104.1 | RPD = 1 |

Total PCB Area Col1 (4.705 - 12.890) = 427564631

Col1 Total PCB = 0.2 ppm*

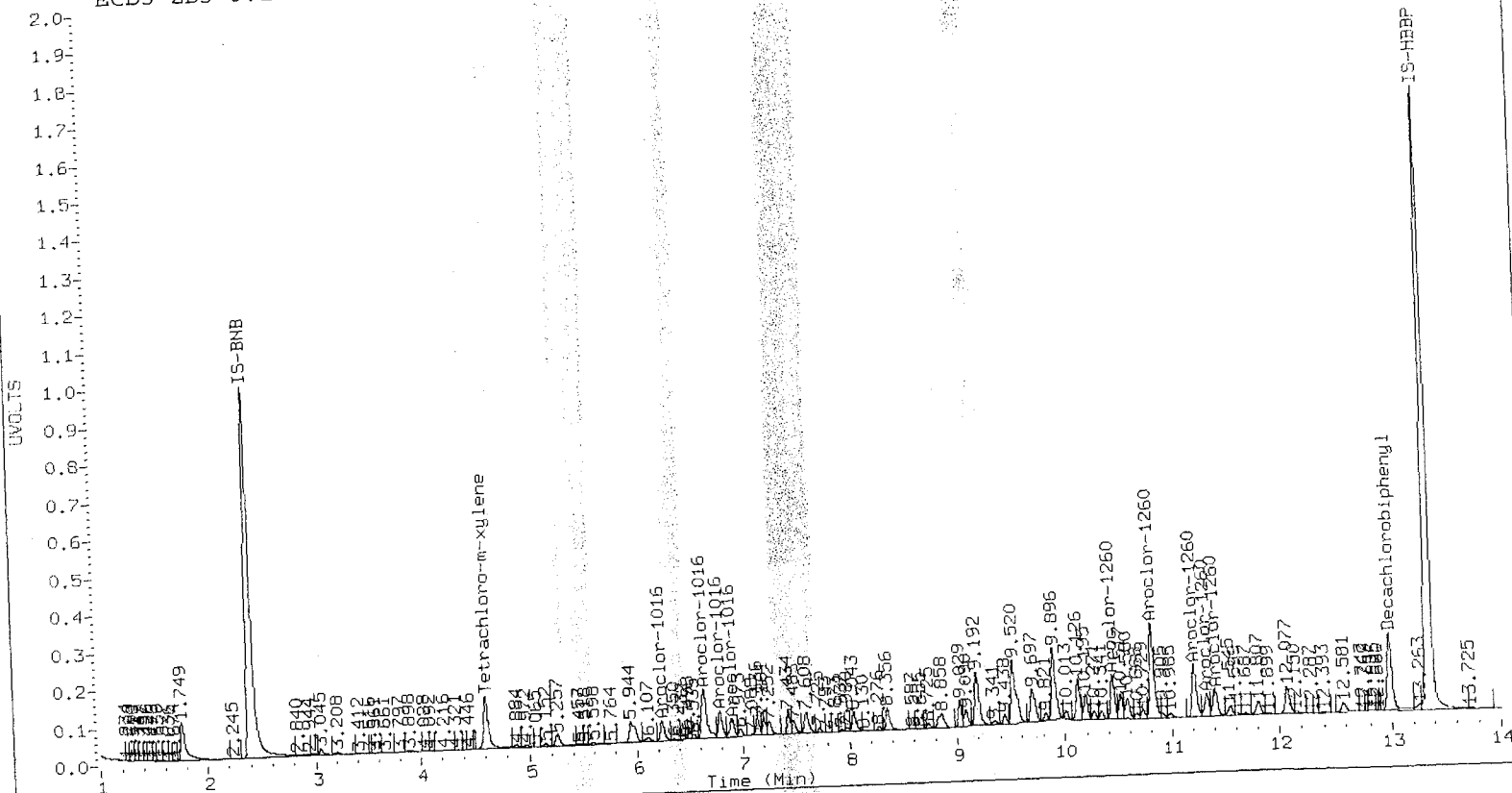
Total PCB Area Col2 (4.707 - 13.262) = 210993433

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

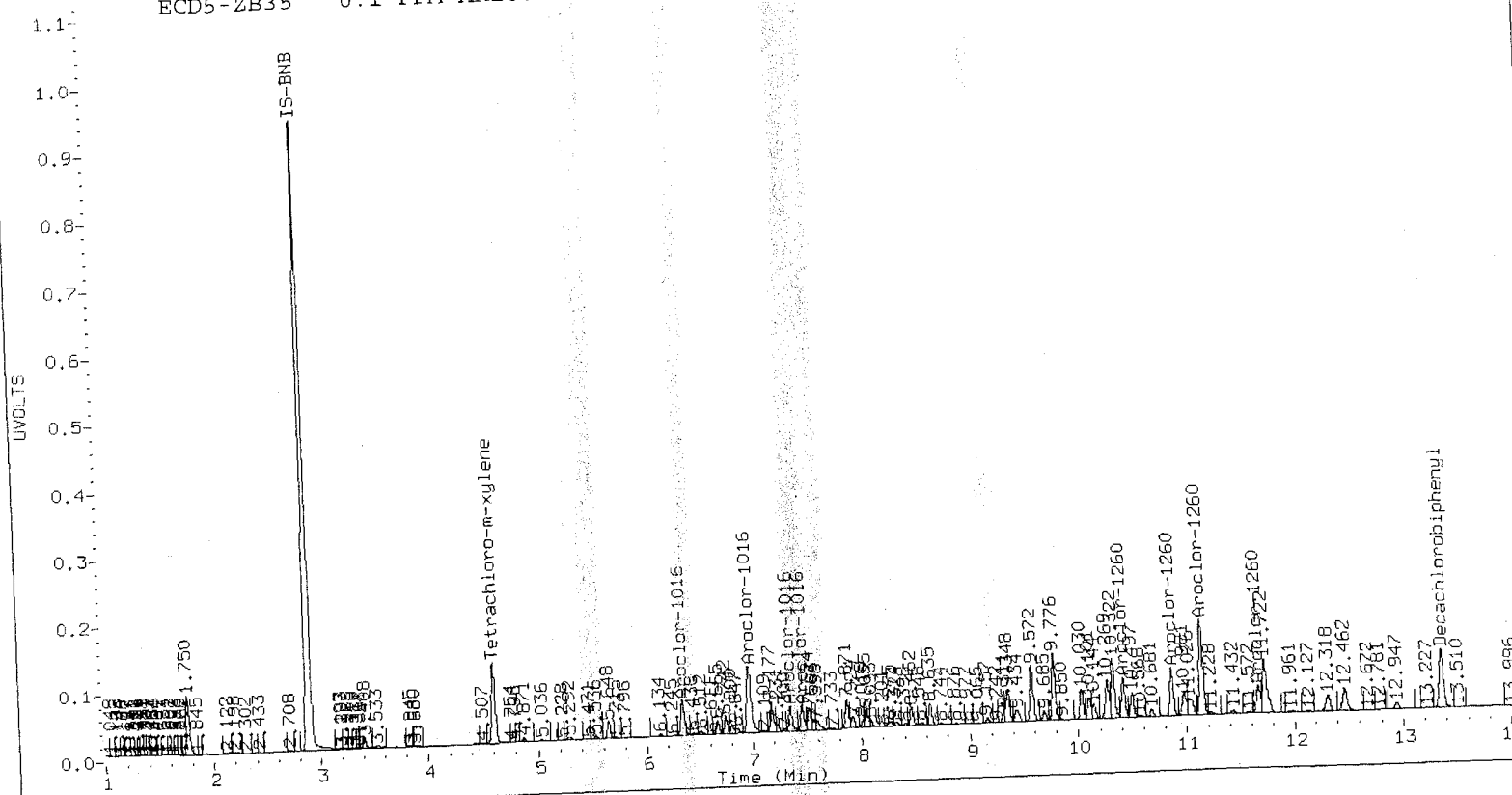
ECD5-ZB5 0.1 PPM AR1660

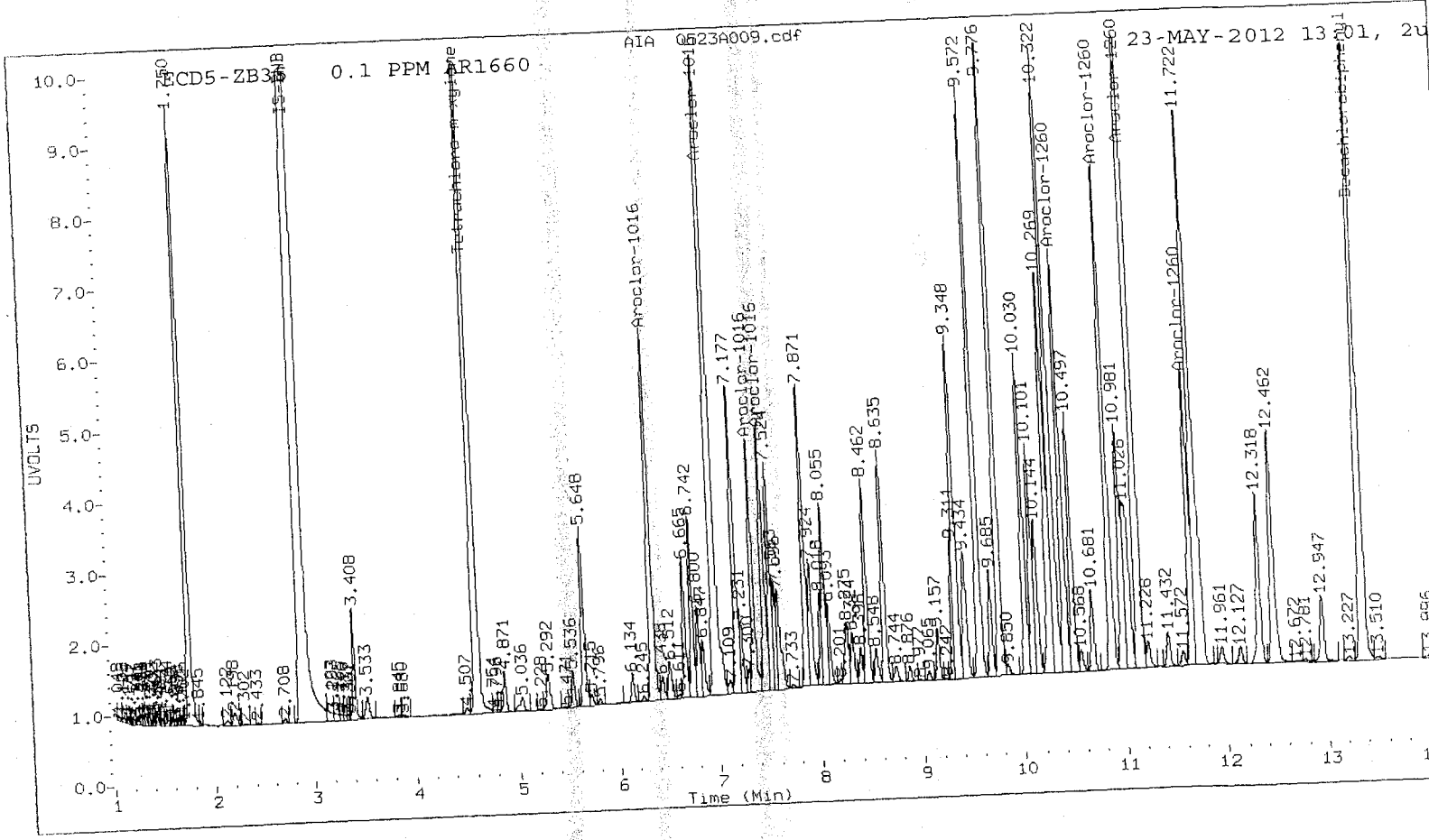
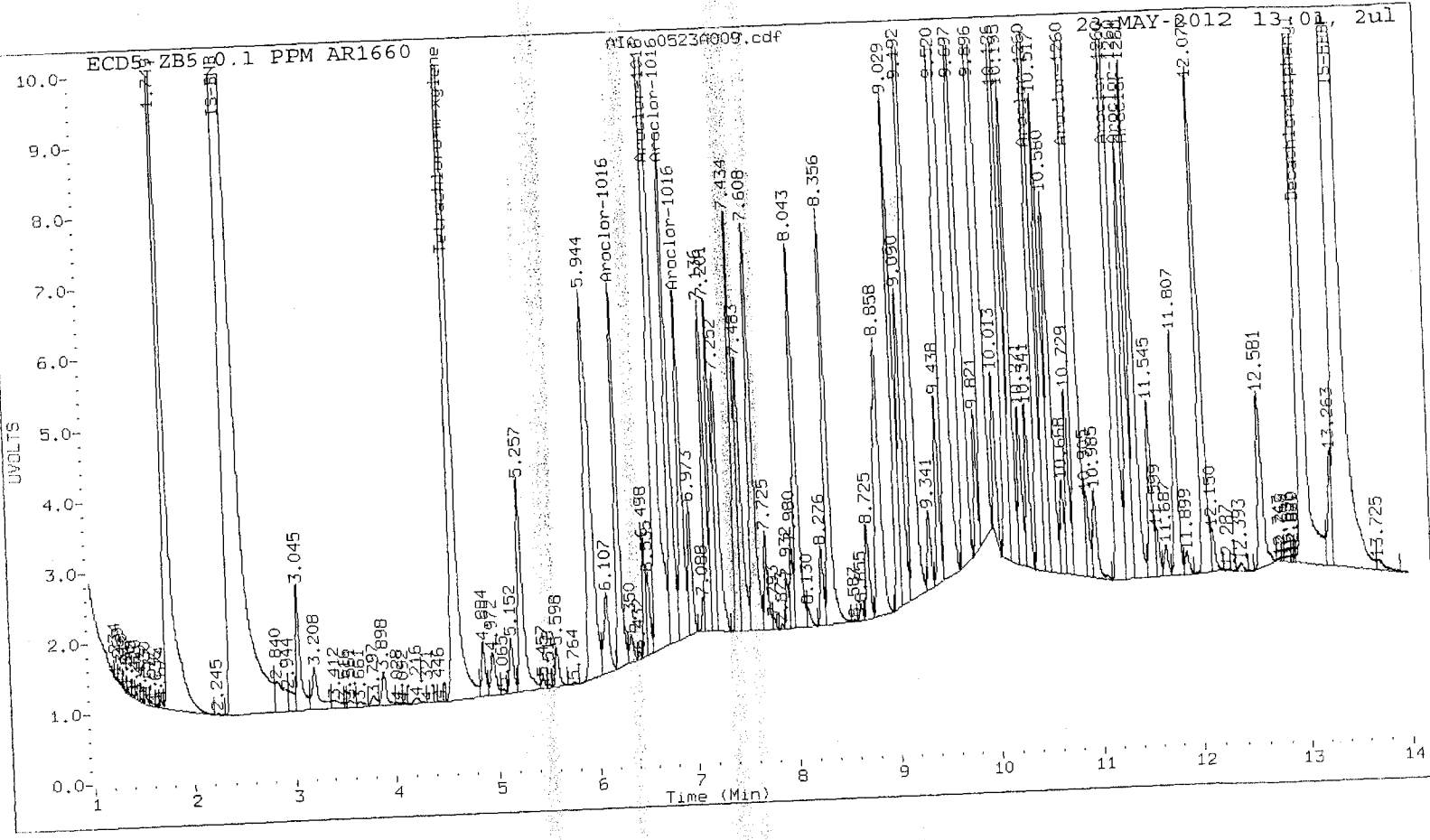
AIA 0523A009.cdf



ECD5-ZB35 0.1 PPM AR1660

AIA 0523A009.cdf





0052 : 01528

Analytical Resources Inc.
Dual Column PCBs by SW8082

ARI ID: 0.5 PPM ARR160
Client ID:
Injection Date: 23-MAY-2012 13:20
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

Data file 1: 20120523.b/ical-1.b/0523A010.d
Data file 2: 20120523.b/ical-2.b/0523A010.d
Method: /chem2/ecd5.i/20120523.b/PCBl.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 4.604 | -0.001 | 95532370 | 4.606 | -0.001 | 61492325 | 37.8 | 39.2 | 3.4 | Tetrachloro-m-xylene |
| 12.990 | 0.000 | 131959083 | 13.363 | 0.001 | 52215403 | 33.7 | 36.8 | 9.0 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 94.6 | 97.9 |
| Decachlorobiphenyl | 84.1 | 92.1 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 157116261 | 1.9 |
| Hexabromobiphenyl | 248602423 | 255504461 | 2.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 111611648 | 0.9 |
| Hexabromobiphenyl | 108855531 | 109698277 | 0.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

hem2/ecd5.i/20120523.b/ical-1.b/0523A010.d

0.5 PPM ARR160

| | | ZB5 Col | | | ZB35 Col | | | Area | Amount | | |
|--------------------------|-------|---------|-------|-----------|----------|--------------------------|--------|-------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.237 | 0.000 | 27693528 | 422.5 | 1 | 6.344 | 0.000 | 25480661 | 437.4 | |
| Aroclor-1016 | 2 | 6.638 | 0.000 | 92355706 | 432.2 | 2 | 6.970 | 0.000 | 60392803 | 456.7 | |
| Aroclor-1016 | 3 | 6.786 | 0.000 | 37120086 | 440.5 | 3 | 7.353 | 0.000 | 15853898 | 464.7 | |
| Aroclor-1016 | 4 | 6.896 | 0.000 | 27005529 | 406.8 | 4 | 7.460 | 0.000 | 17585501 | 463.6 | |
| Total CollAve (4 peaks): | | | | 425.5 | | Total Col2Ave (4 peaks): | | | | 455.6 | RPD = 7 |
| Corrected Ave (3 peaks): | | | | 420.5 | | Corrected Ave (3 peaks): | | | | 452.6 | RPD = 7 |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.444 | 0.000 | 60718439 | 438.0 | 1 | 10.420 | 0.000 | 29425213 | 467.7 | |
| Aroclor-1260 | 2 | 10.819 | 0.000 | 150397287 | 437.2 | 2 | 10.869 | 0.000 | 36585977 | 468.3 | |
| Aroclor-1260 | 3 | 11.217 | 0.000 | 84623698 | 442.6 | 3 | 11.143 | 0.000 | 74383127 | 468.9 | |
| Aroclor-1260 | 4 | 11.334 | 0.000 | 36219238 | 441.2 | 4 | 11.664 | 0.000 | 21707605 | 468.7 | |
| Aroclor-1260 | 5 | 11.408 | 0.000 | 44135258 | 450.3 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 441.9 | | Total Col2Ave (4 peaks): | | | | 468.4 | RPD = 6 |
| Corrected Ave (4 peaks): | | | | 439.7 | | Corrected Ave (3 peaks): | | | | 468.3 | RPD = 6 |

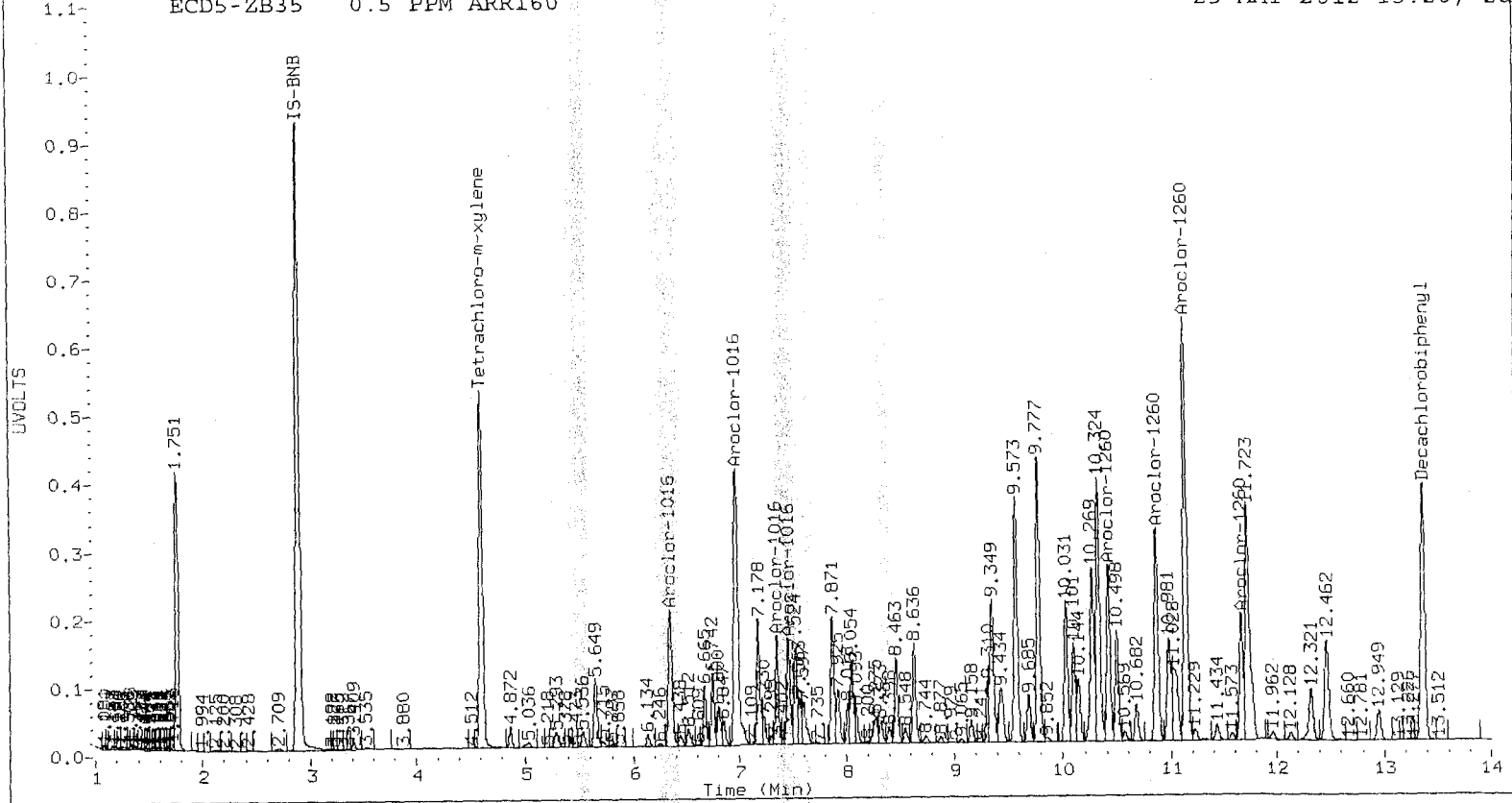
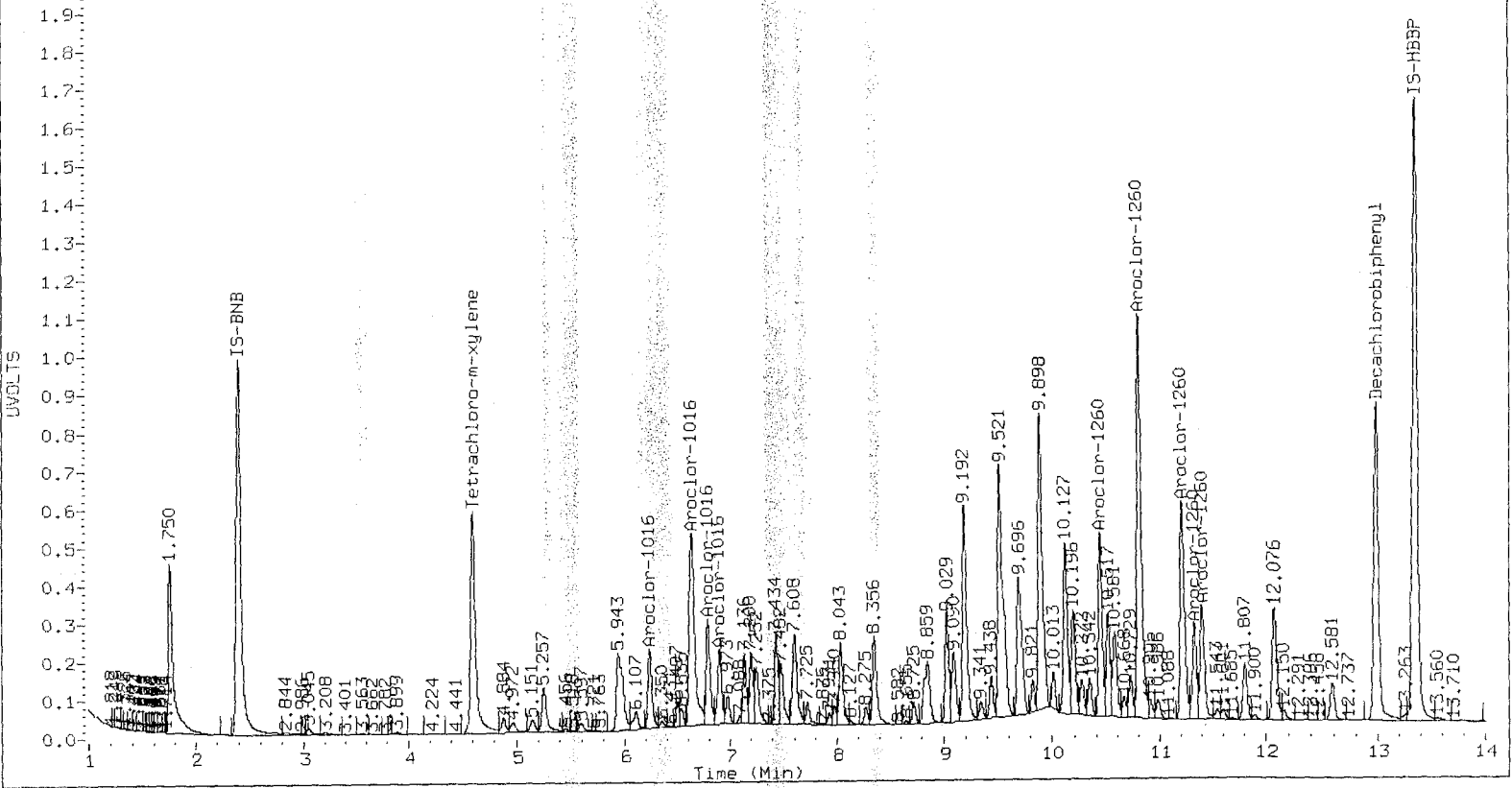
Total PCB Area Coll1 (4.705 - 12.890) = 1715529978

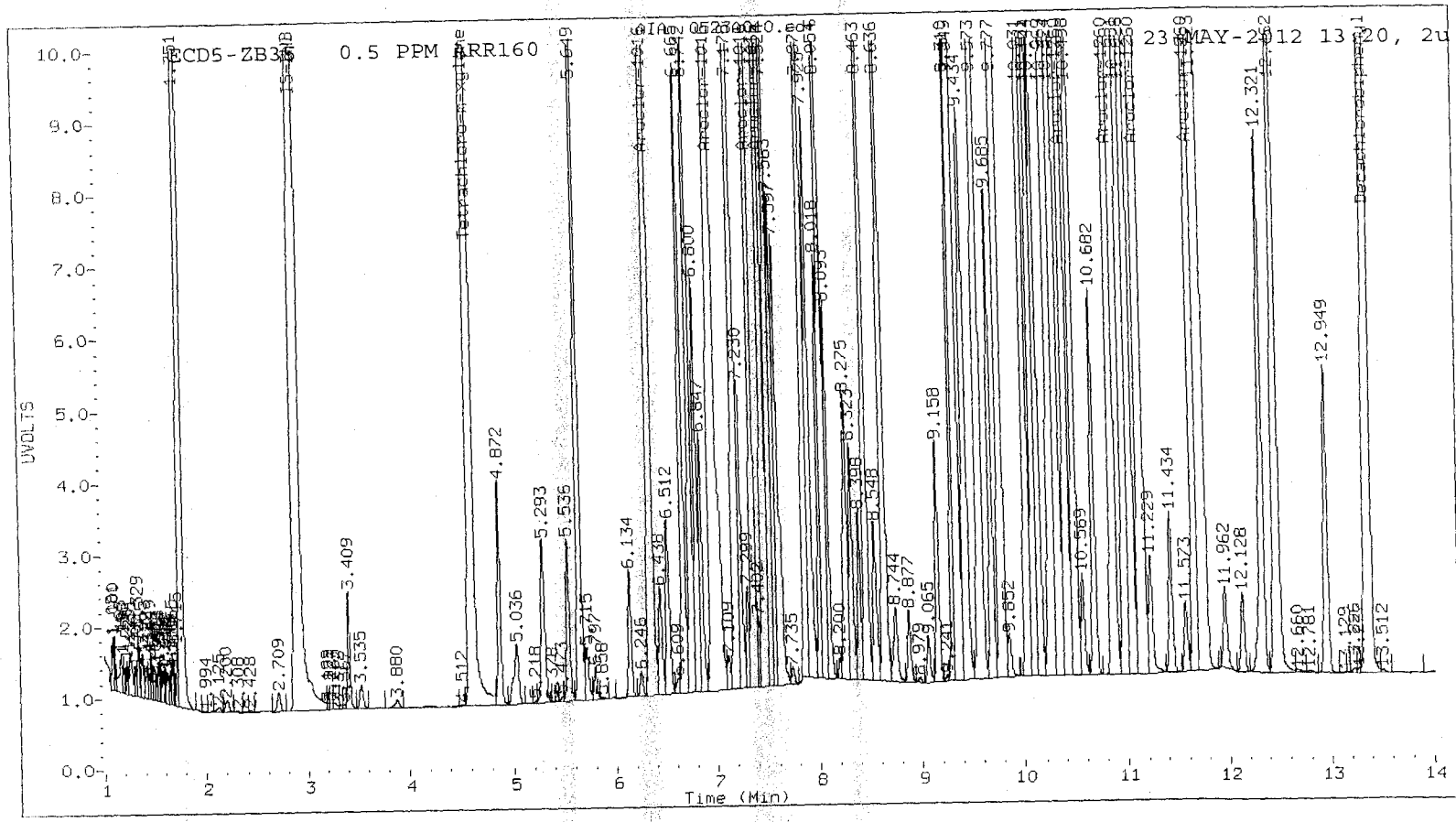
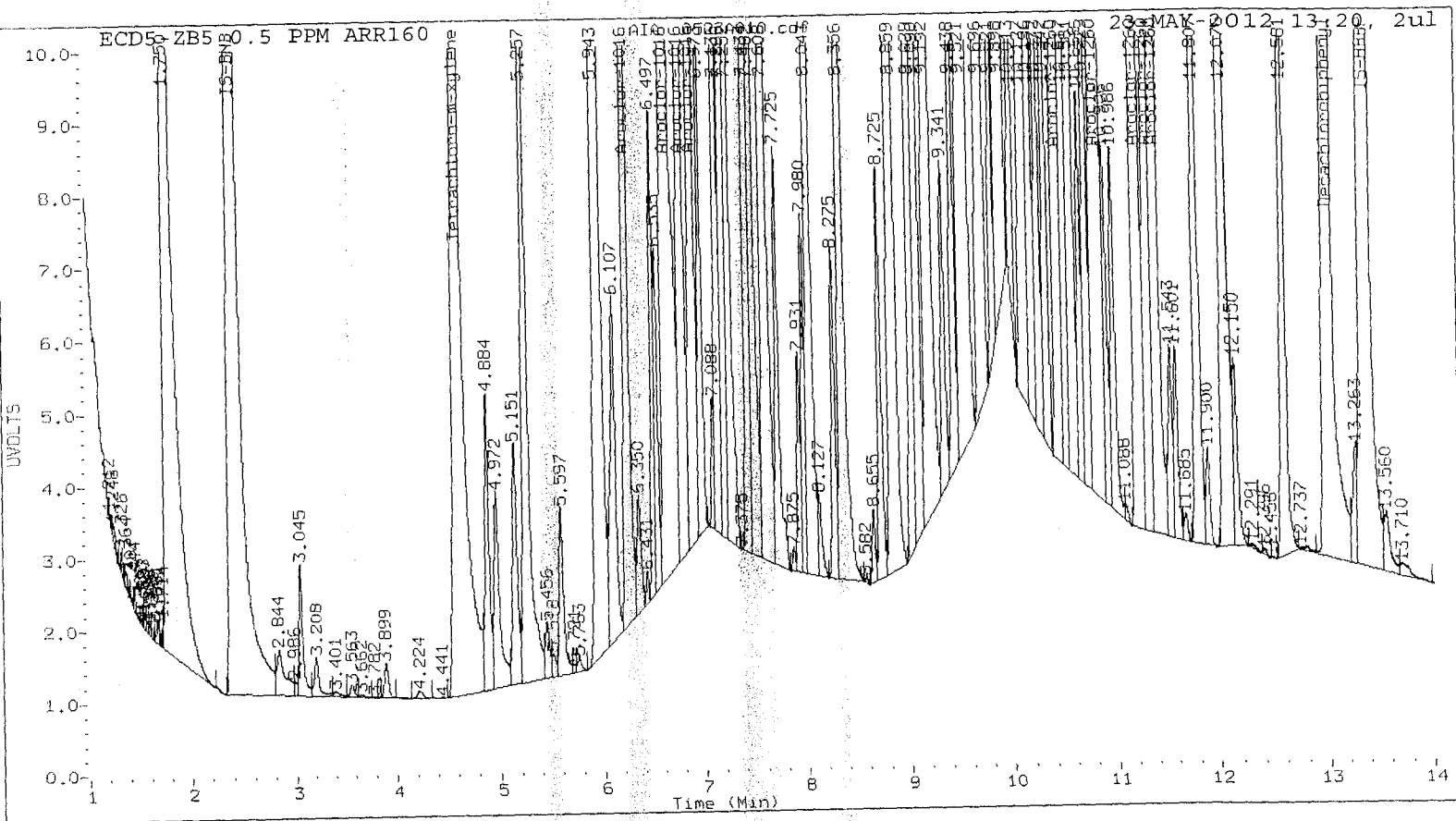
Total PCB Area Col2 (4.707 - 13.262) = 918581550

Coll1 Total PCB = 0.9 ppm*

Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A011.d
Data file 2: 20120523.b/ical-2.b/0523A011.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 23-MAY-2012 13:39
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|-----|----------------------|
| 4.604 | -0.001 51153372 | 4.605 -0.002 32157501 | 20.1 | 20.5 | 2.2 | Tetrachloro-m-xylene |
| 12.989 | -0.001 71971474 | 13.363 0.001 27362468 | 18.4 | 19.4 | 5.5 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.1 | 51.3 |
| Decachlorobiphenyl | 46.0 | 48.6 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 158724720 | 2.9 |
| Hexabromobiphenyl | 248602423 | 254953104 | 2.6 |
| Standard Cpnd | Column 2 | | |
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 111472971 | 0.8 |
| Hexabromobiphenyl | 108855531 | 109000932 | 0.1 |

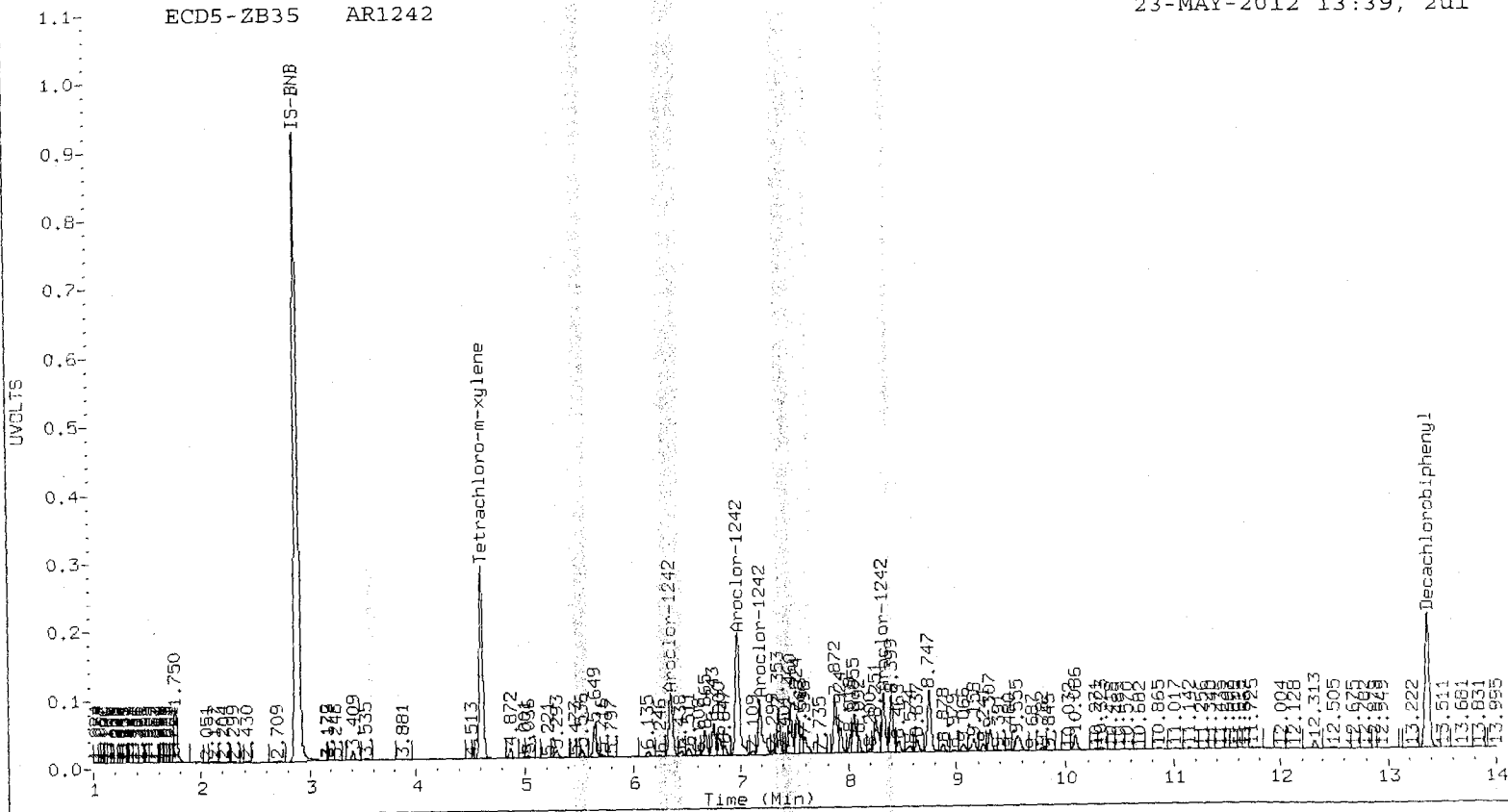
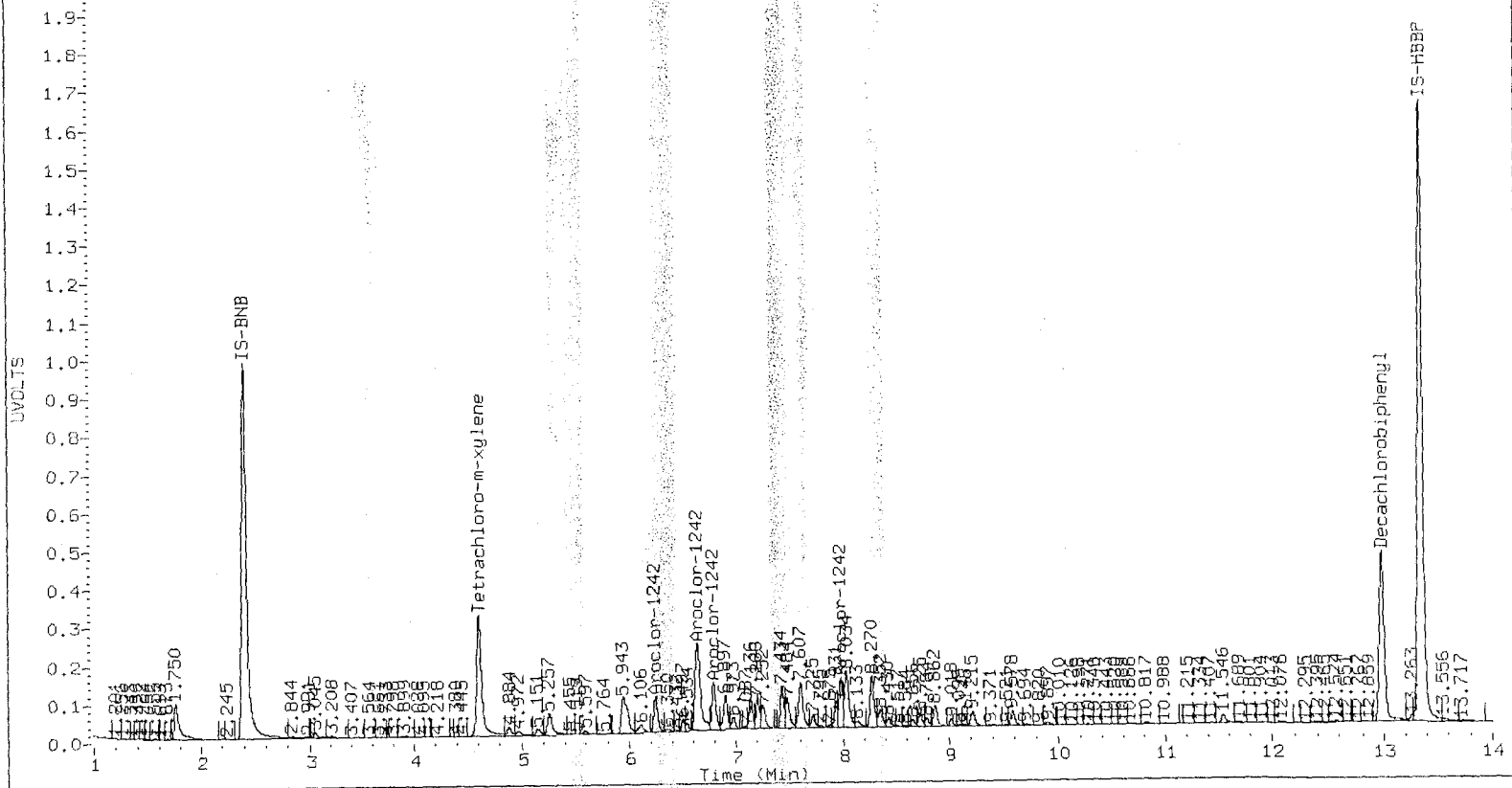
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

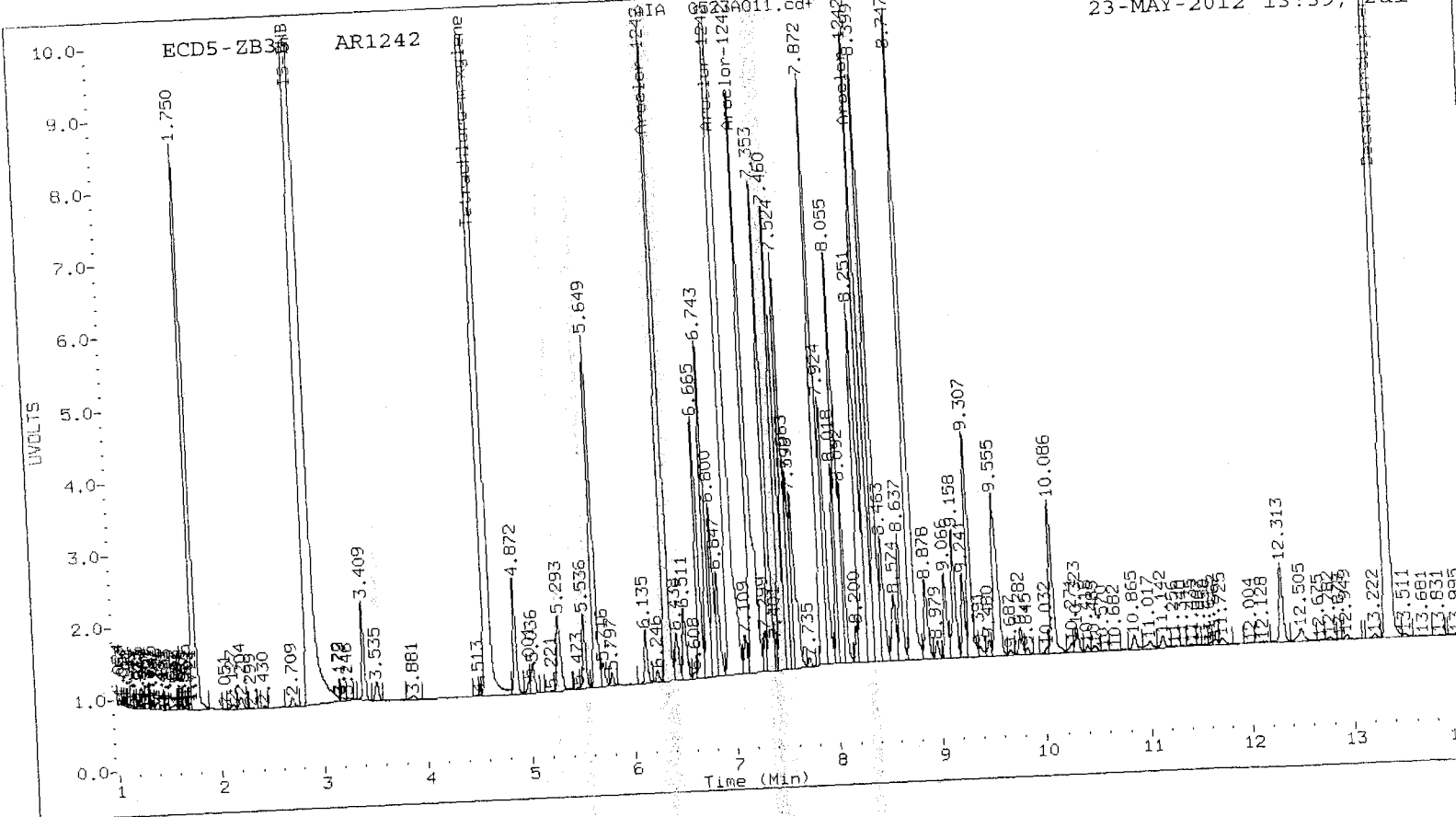
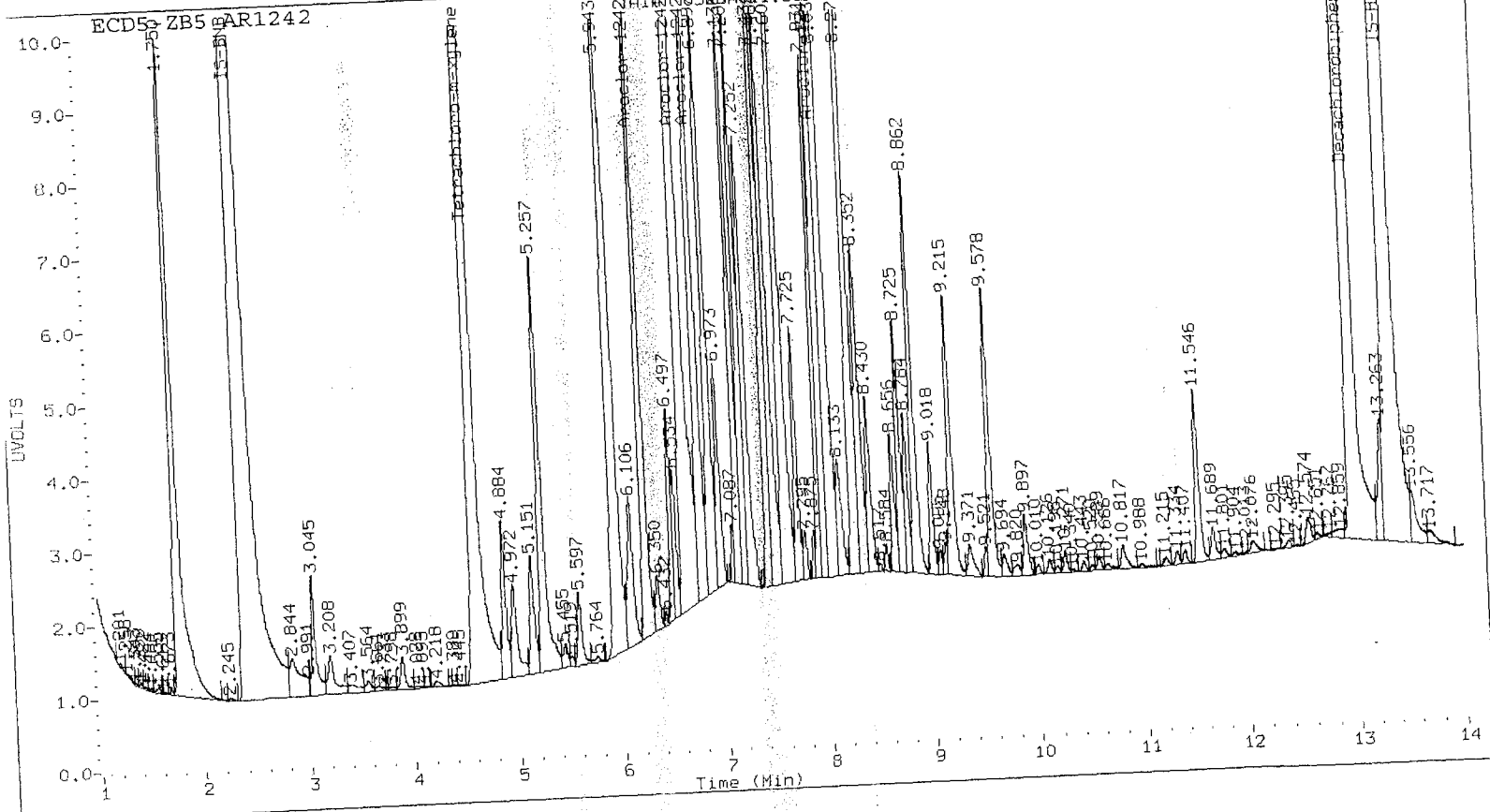
| | | ZB5 Col | | | | ZB35 Col | | | | |
|--------------------------|-------|---------|-------|----------|--------|--------------------------|-------|-------|----------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1242 | 1 | 6.237 | 0.000 | 12490099 | 250.0 | 1 | 6.343 | 0.000 | 11370243 | 250.0 |
| Aroclor-1242 | 2 | 6.638 | 0.000 | 41647431 | 250.0 | 2 | 6.971 | 0.000 | 25823258 | 250.0 |
| Aroclor-1242 | 3 | 6.786 | 0.000 | 16618464 | 250.0 | 3 | 7.179 | 0.000 | 10491199 | 250.0 |
| Aroclor-1242 | 4 | 7.980 | 0.000 | 15477635 | 250.0 | 4 | 8.324 | 0.000 | 9122569 | 250.0 |
| Total Col1Ave (4 peaks): | | | | 250.0 | | Total Col2Ave (4 peaks): | | | | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | | Corrected Ave (3 peaks): | | | | 250.0 RPD = 0 |

Total PCB Area Col1 (4.705 - 12.890) = 330210054 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 186466562 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

ARI ID: AR1248
Client ID:
Injection Date: 23-MAY-2012 13:58
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

Data file 1: 20120523.b/ical-1.b/0523A012.d
Data file 2: 20120523.b/ical-2.b/0523A012.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

| RT | ZB5 Col Shift Response | RT | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|--------|----------------------------|---------------|----------------|-----|----------------------|
| 4.605 | 0.000 51098218 | 4.606 | -0.001 32011781 | 20.4 | 20.5 | 0.7 | Tetrachloro-m-xylene |
| 12.989 | -0.001 71008403 | 13.363 | 0.000 27080017 | 18.0 | 19.0 | 5.1 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.9 | 51.3 |
| Decachlorobiphenyl | 45.1 | 47.5 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 156181919 | 1.3 |
| Hexabromobiphenyl | 248602423 | 256386929 | 3.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 110993433 | 0.3 |
| Hexabromobiphenyl | 108855531 | 110340661 | 1.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A012.d AR1248

| Aroclor | Peak# | RT | ZB5 Col | | Amount | Peak# | ZB35 Col | | Area | Amount | |
|--------------------------|-------|-------|---------|----------|--------|--------------------------|----------|-------|----------|--------|---------|
| | | | Shift | Area | | | RT | Shift | | | |
| Aroclor-1248 | 1 | 6.635 | 0.000 | 27412277 | 250.0 | 1 | 6.968 | 0.000 | 16661322 | 250.0 | |
| Aroclor-1248 | 2 | 7.434 | 0.000 | 20709666 | 250.0 | 2 | 7.872 | 0.000 | 13348890 | 250.0 | |
| Aroclor-1248 | 3 | 7.980 | 0.000 | 26528908 | 250.0 | 3 | 8.324 | 0.000 | 16052676 | 250.0 | |
| Aroclor-1248 | 4 | 8.270 | 0.000 | 26768954 | 250.0 | 4 | 8.746 | 0.000 | 18118667 | 250.0 | |
| Total CollAve (4 peaks): | | | | 250.0 | | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Col1 (4.705 - 12.890) = 425921878

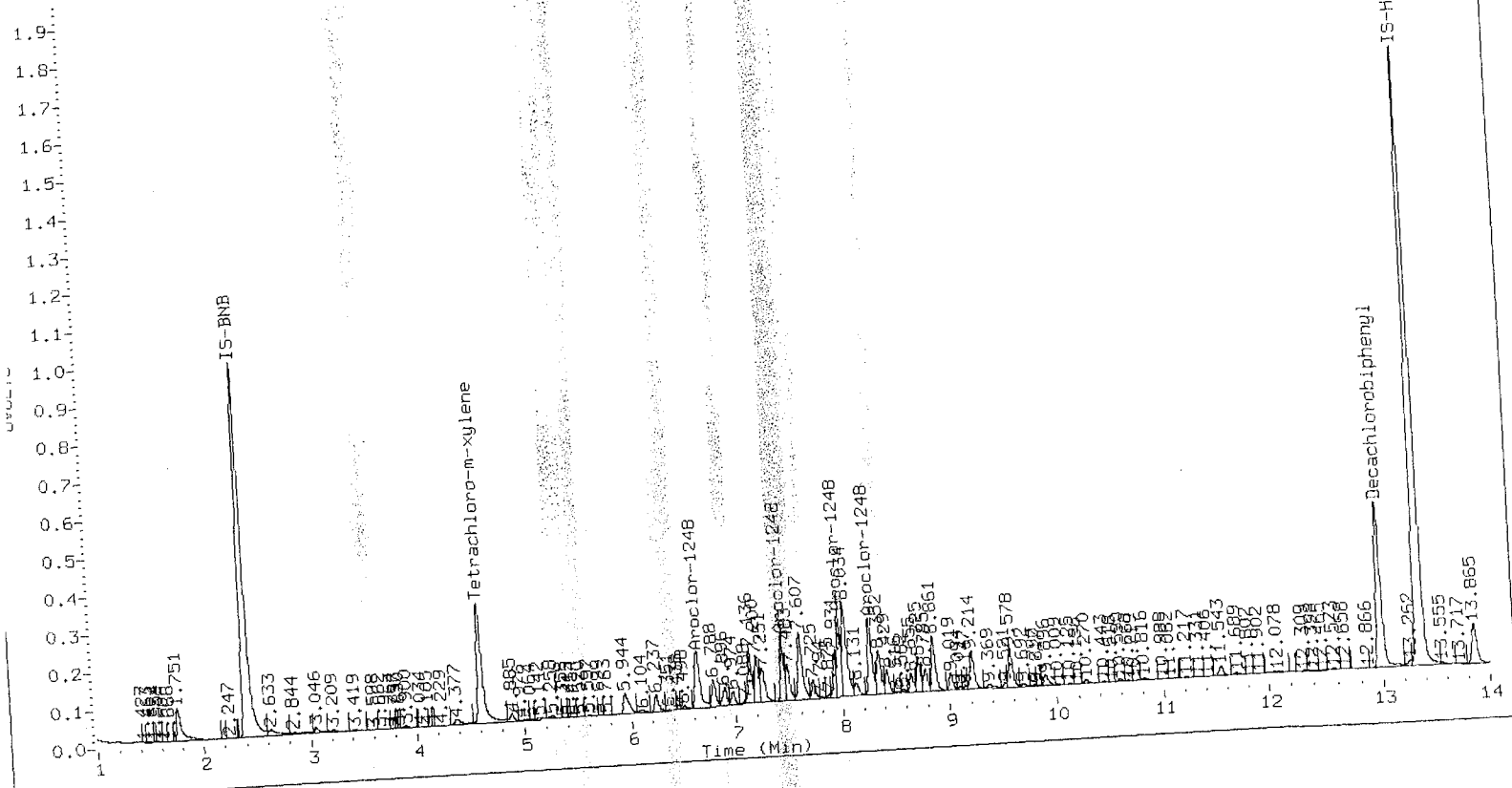
Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 234961382

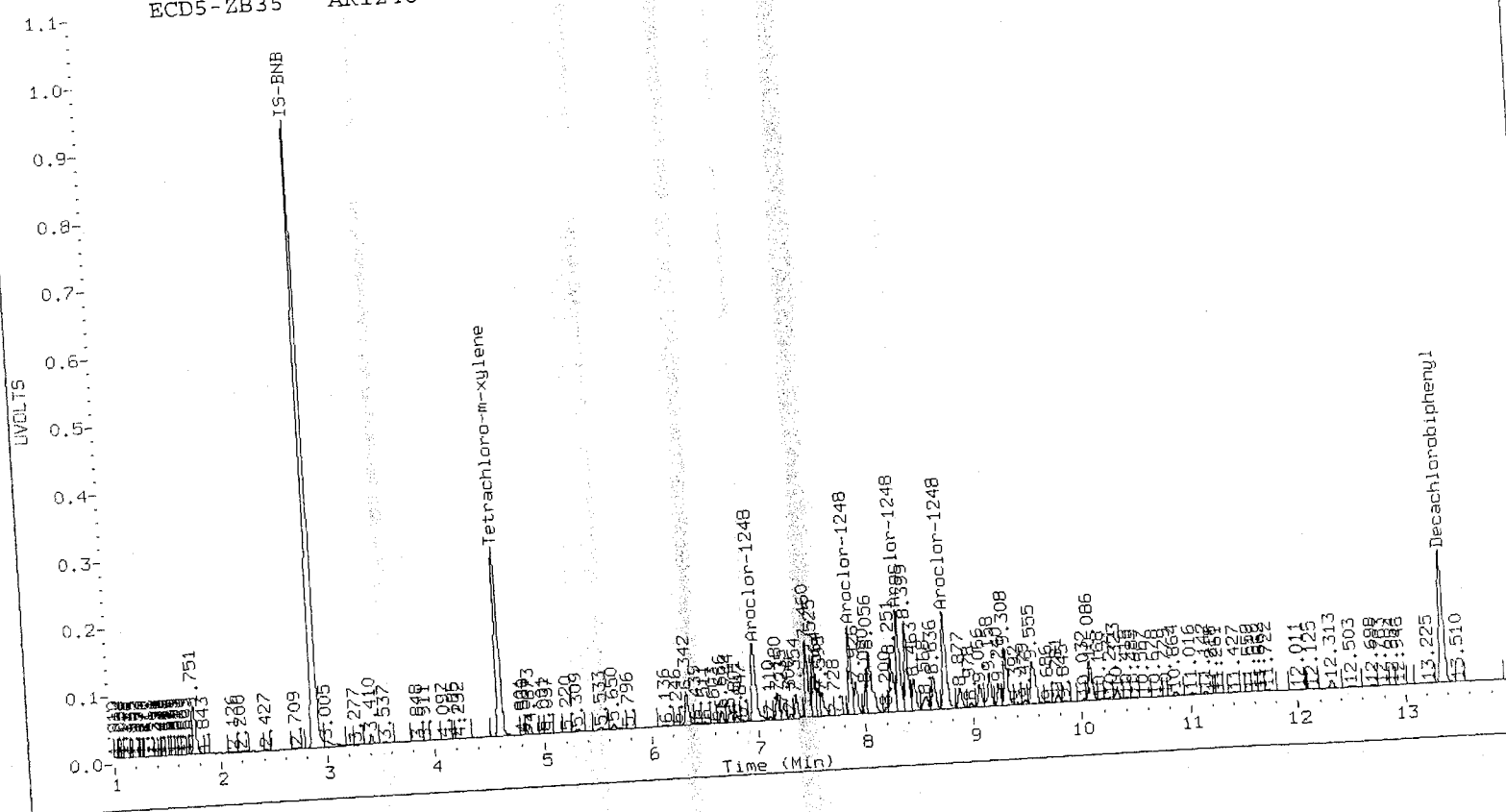
Col2 Total PCB = 0.2 ppm*

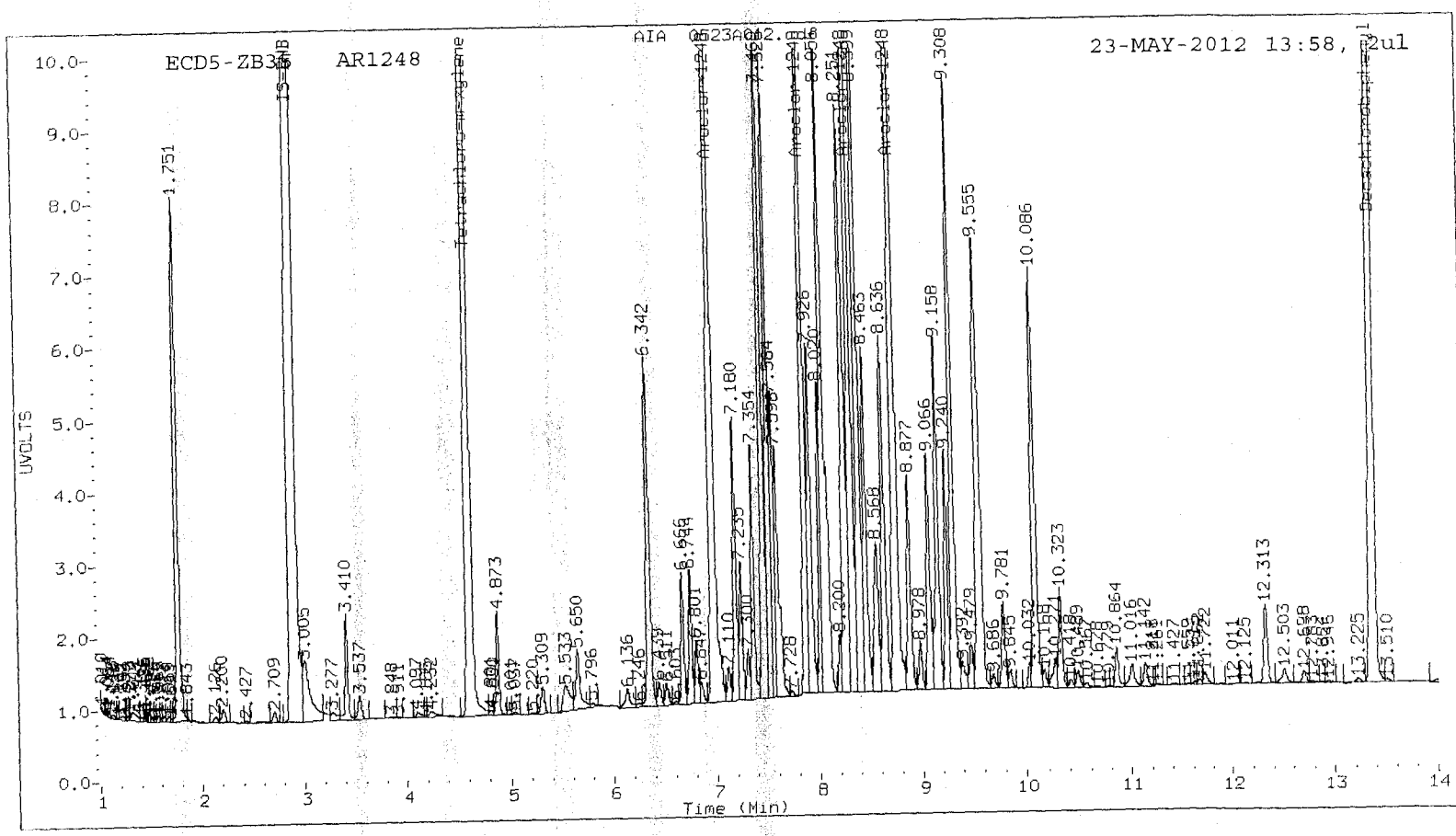
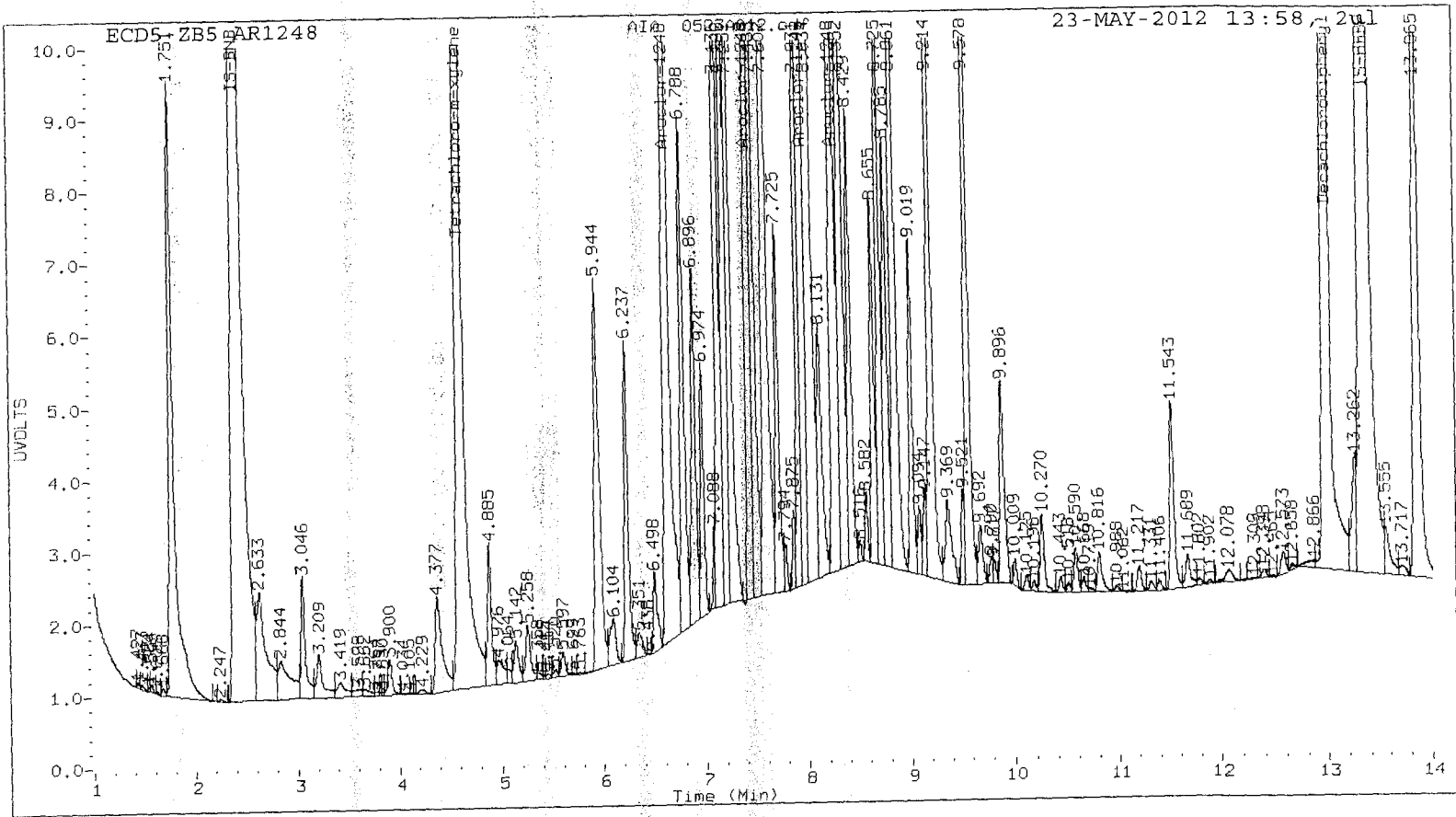
* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 AR1248



ECD5-ZB35 AR1248





Analytical Resources Inc.
Dual Column PCBs by SW8082

ARI ID: AR1254
Client ID:
Injection Date: 23-MAY-2012 14:17
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

Data file 1: 20120523.b/ical-1.b/0523A013.d
Data file 2: 20120523.b/ical-2.b/0523A013.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 4.604 | -0.001 | 51075292 | 4.605 | -0.002 | 32559399 | 19.7 | 20.4 | 3.1 | Tetrachloro-m-xylene |
| 12.989 | -0.001 | 72113898 | 13.363 | 0.000 | 27622701 | 18.1 | 19.2 | 5.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 49.3 | 50.9 |
| Decachlorobiphenyl | 45.3 | 48.0 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 161042809 | 4.4 |
| Hexabromobiphenyl | 248602423 | 259540024 | 4.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 113709110 | 2.8 |
| Hexabromobiphenyl | 108855531 | 111392465 | 2.3 |

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|--------|-------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 8.354 | 0.000 | 36957938 | 250.0 | 1 | 8.463 | 0.000 | 12480254 | 250.0 | |
| Aroclor-1254 | 2 | 8.725 | 0.000 | 23788025 | 250.0 | 2 | 8.636 | 0.000 | 15863172 | 250.0 | |
| Aroclor-1254 | 3 | 8.861 | 0.000 | 45928780 | 250.0 | 3 | 9.158 | 0.000 | 12121823 | 250.0 | |
| Aroclor-1254 | 4 | 9.210 | 0.000 | 49454728 | 250.0 | 4 | 9.308 | 0.000 | 26812391 | 250.0 | |
| Aroclor-1254 | 5 | 9.572 | 0.000 | 30760779 | 250.0 | 5 | 10.091 | 0.000 | 15715342 | 250.0 | |
| Total CollAve (5 peaks): | | | | 250.0 | | Total Col2Ave (5 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (4 peaks): | | | | 250.0 | | Corrected Ave (4 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Col1 (4.705 - 12.890) = 486346119

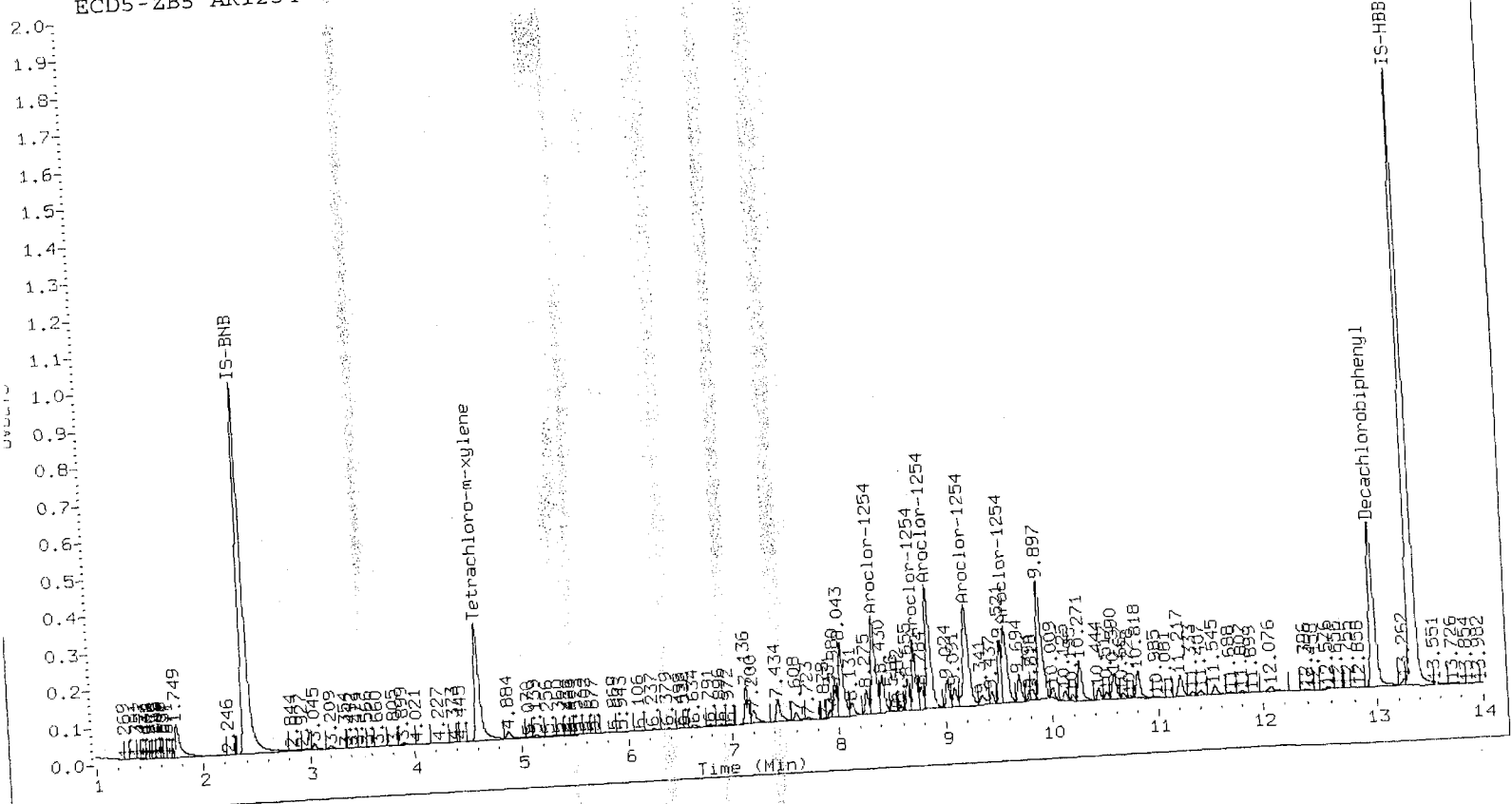
Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.707 - 13.262) = 254319851

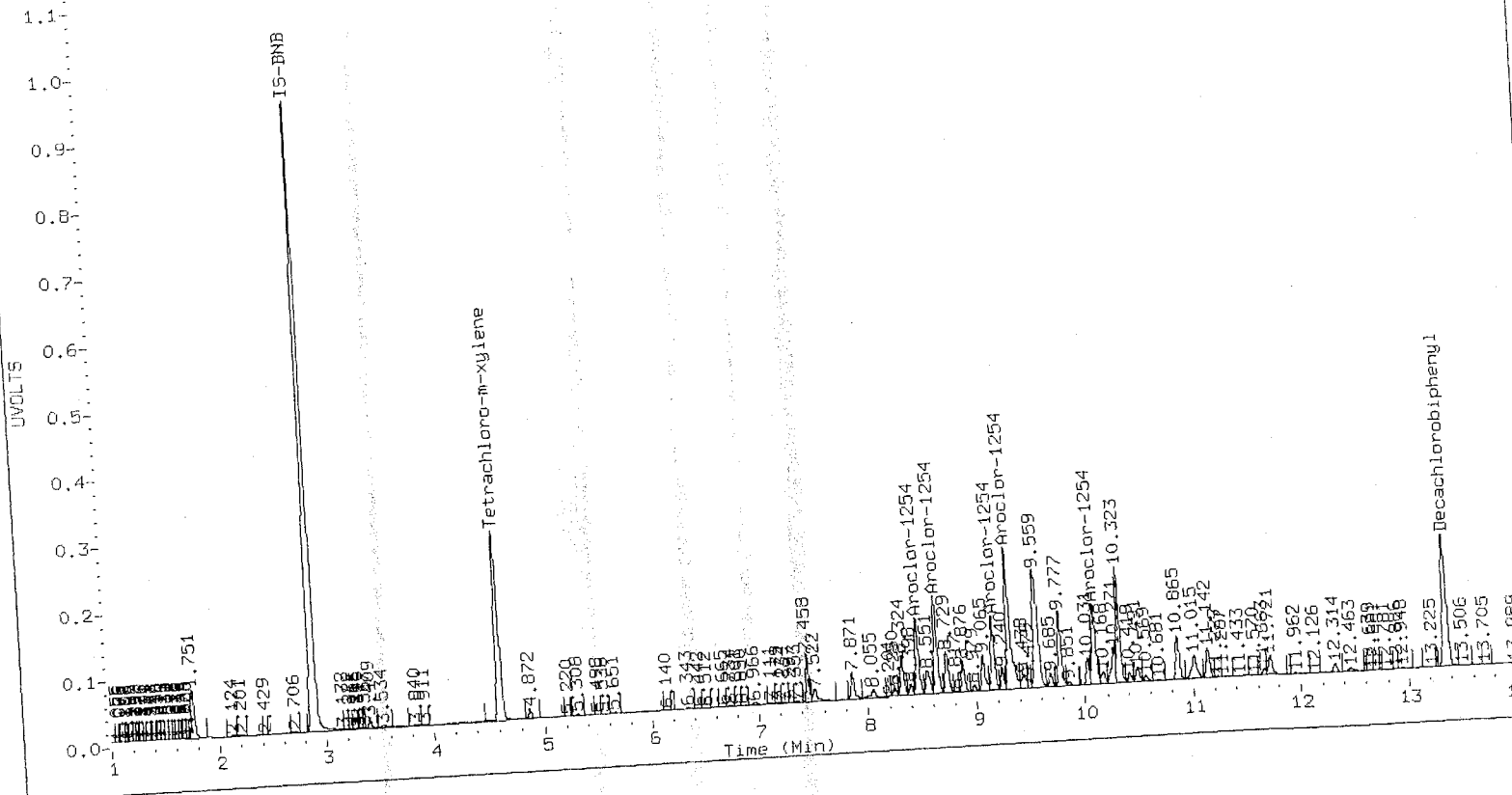
Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 AR1254



ECD5-ZB35 AR1254



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A014.d
Data file 2: 20120523.b/ical-2.b/0523A014.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 23-MAY-2012 14:36
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | RT | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|----|---------------------------|----|----------------------------|---------------|----------------|-----|---------------|
|----|---------------------------|----|----------------------------|---------------|----------------|-----|---------------|

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Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/ical-1.b/0523A015.d
Data file 2: 20120523.b/ical-2.b/0523A015.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 23-MAY-2012 14:55
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | RT | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|--------|----------------------------|---------------|----------------|------|----------------------|
| 4.605 | 0.000 52276783 | 4.607 | 0.000 32799687 | 20.3 | 21.1 | 3.6 | Tetrachloro-m-xylene |
| 12.990 | 0.000 121606873 | 13.362 | 0.000 49357296 | 31.0 | 34.7 | 11.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.8 | 52.7 |
| Decachlorobiphenyl | 77.4 | 86.6 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 159979493 | 3.7 |
| Hexabromobiphenyl | 248602423 | 255983137 | 3.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 110553251 | -0.1 |
| Hexabromobiphenyl | 108855531 | 110210828 | 1.2 |

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

hem2/ecd5.i/20120523.b/ical-1.b/0523A015.d

AR3268

| | | ZB5 Col | | | ZB35 Col | | | | | | |
|--------------------------|-------|---------|-------|-----------|----------|--------------------------|--------|-------|-----------|--------|---------|
| roclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| roclor-1232 | 1 | 6.238 | 0.000 | 6968282 | 250.0 | 1 | 6.345 | 0.000 | 6656405 | 250.0 | |
| roclor-1232 | 2 | 6.639 | 0.000 | 23176486 | 250.0 | 2 | 6.971 | 0.000 | 13937128 | 250.0 | |
| roclor-1232 | 3 | 6.788 | 0.000 | 9400077 | 250.0 | 3 | 7.179 | 0.000 | 4701629 | 250.0 | |
| roclor-1232 | 4 | 7.980 | 0.000 | 9027031 | 250.0 | 4 | 8.325 | 0.000 | 5155738 | 250.0 | |
| Total Col1Ave (4 peaks): | | | | 250.0 | | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.336 | 0.000 | 108965571 | 250.0 | 1 | 11.664 | 0.000 | 52602687 | 250.0 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 109555201 | 250.0 | 2 | 11.730 | 0.000 | 49585436 | 250.0 | |
| Aroclor-1268 | 3 | 11.793 | 0.000 | 91460025 | 250.0 | 3 | 12.128 | 0.000 | 41637863 | 250.0 | |
| Aroclor-1268 | 4 | 12.585 | 0.000 | 268923357 | 250.0 | 4 | 12.950 | 0.000 | 117617700 | 250.0 | |
| Total Col1Ave (4 peaks): | | | | 250.0 | | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Col1 (4.705 - 12.890) = 963172112

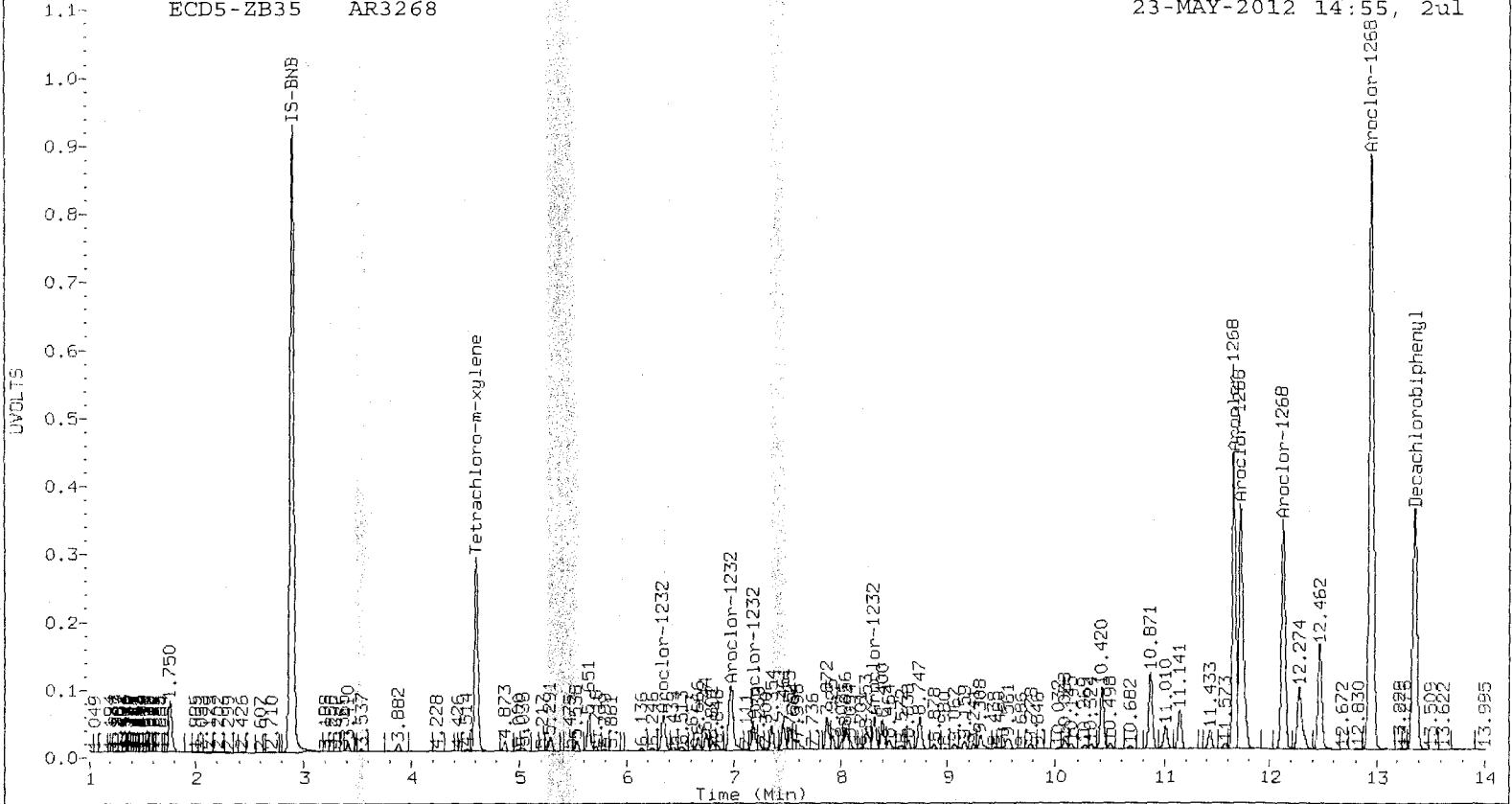
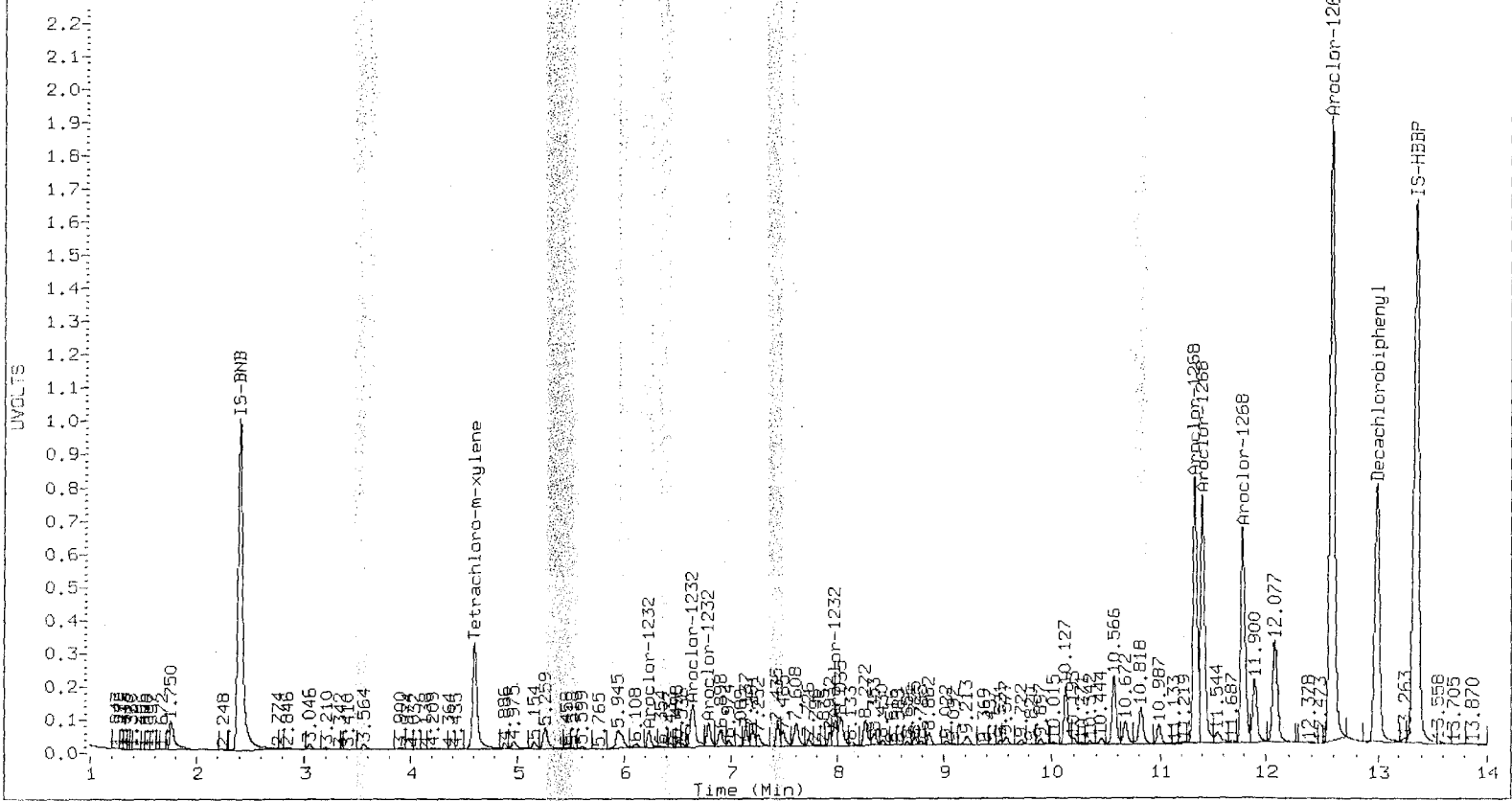
Col1 Total PCB = 0.5 ppm*

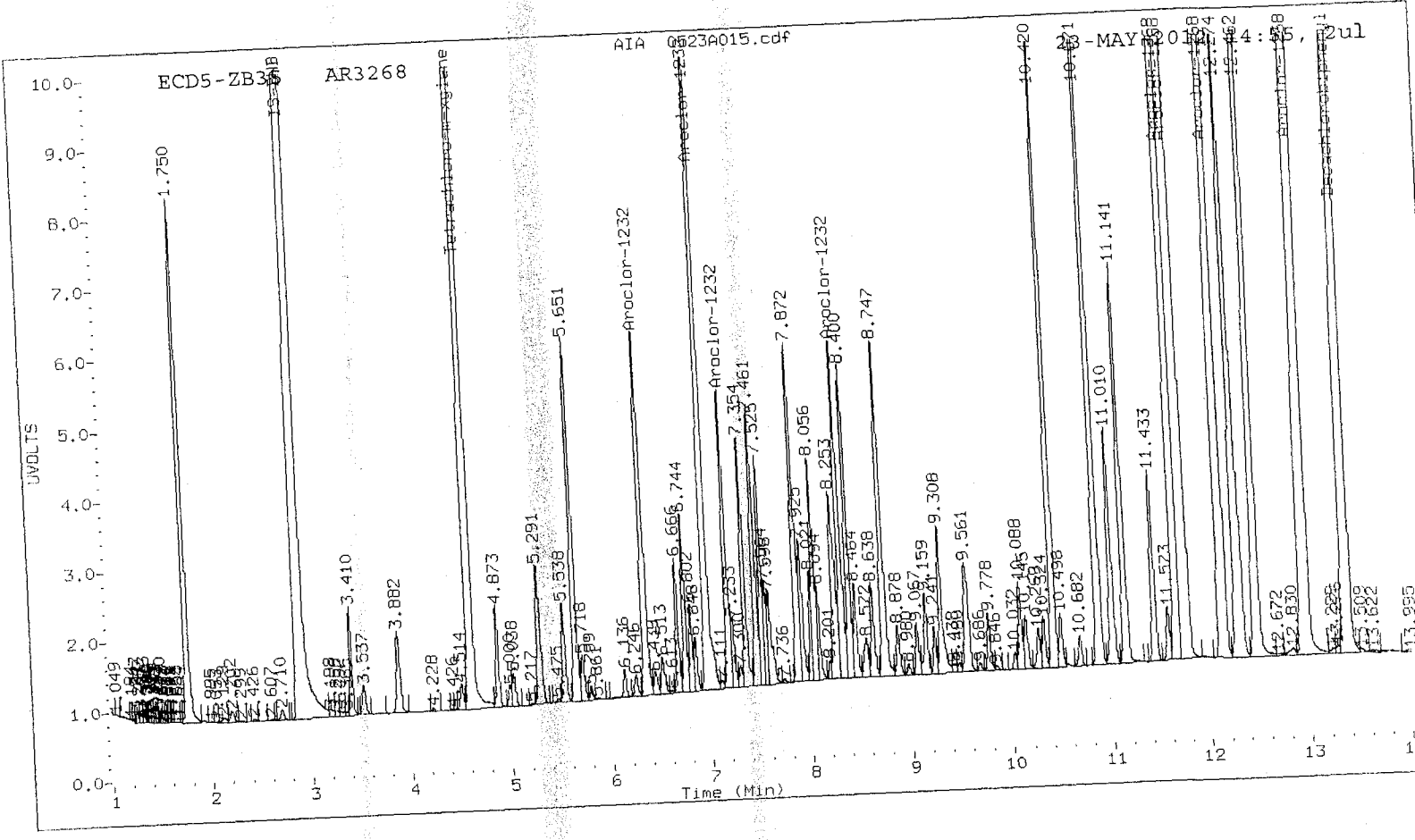
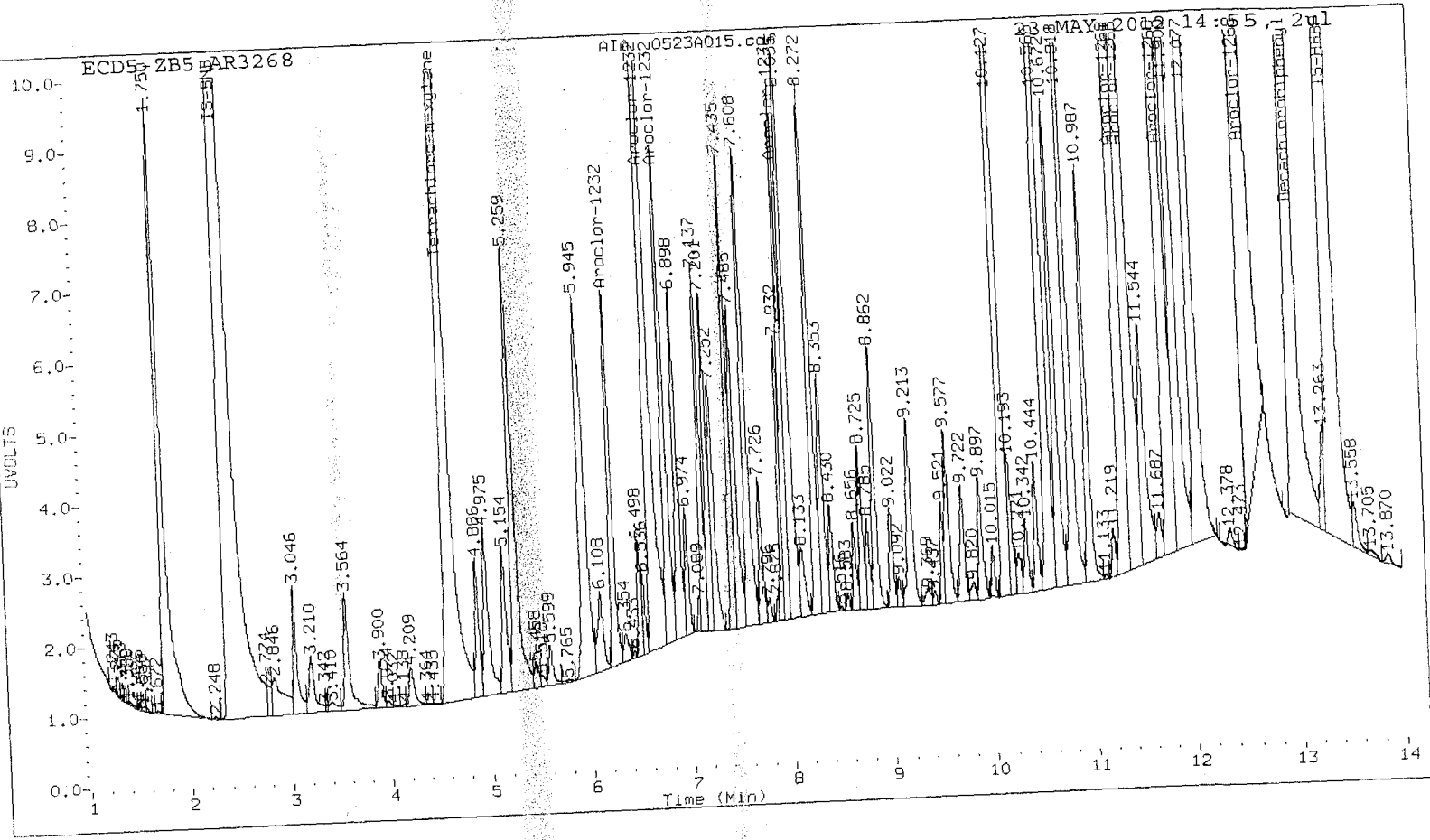
Total PCB Area Col2 (4.706 - 13.262) = 449374255

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

UU52:01648





Analytical Resources Inc.
Dual Column PCBs by SW8082

AR 5/24/2012

Data file 1: 20120523.b/ical-1.b/0523A016.d
Data file 2: 20120523.b/ical-2.b/0523A016.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 ICV
Client ID:
Injection Date: 23-MAY-2012 15:14
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 4.605 | 0.000 | 51659408 | 4.607 | -0.001 | 32548080 | 20.2 | 20.4 | 1.0 | Tetrachloro-m-xylene |
| 12.989 | -0.002 | 73226424 | 13.362 | -0.002 | 28269430 | 18.5 | 19.9 | 7.1 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.4 | 50.9 |
| Decachlorobiphenyl | 46.3 | 49.7 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 159402616 | 3.4 |
| Hexabromobiphenyl | 248602423 | 257592431 | 3.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 113559639 | 2.7 |
| Hexabromobiphenyl | 108855531 | 110023028 | 1.1 |

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

hem2/ecd5.i/20120523.b/ical-1.b/0523A016.d

AR1660 ICV

| | | ZB5 Col | | ZB35 Col | | | | | | |
|--------------------------|-------|---------|--------|----------|--------|--------------------------|--------|--------|----------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 1 | | 6.238 | 0.001 | 15453388 | 232.4 | 1 | 6.344 | -0.001 | 14347675 | 242.1 |
| Aroclor-1016 2 | | 6.638 | 0.000 | 51594113 | 238.0 | 2 | 6.971 | -0.001 | 32435718 | 241.1 |
| Aroclor-1016 3 | | 6.787 | 0.000 | 20862762 | 244.0 | 3 | 7.354 | -0.001 | 8570166 | 246.9 |
| Aroclor-1016 4 | | 6.897 | 0.001 | 14817661 | 220.0 | 4 | 7.460 | -0.002 | 9086943 | 235.5 |
| Total CollAve (4 peaks): | | | | 233.8 | | Total Col2Ave (4 peaks): | | | 241.4 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 230.1 | | Corrected Ave (3 peaks): | | | 239.5 | RPD = 4 |
| Aroclor-1260 1 | | 10.444 | 0.000 | 37444124 | 267.9 | 1 | 10.419 | -0.001 | 18052461 | 286.1 |
| Aroclor-1260 2 | | 10.818 | 0.000 | 91332989 | 263.4 | 2 | 10.870 | -0.001 | 20748389 | 264.8 |
| Aroclor-1260 3 | | 11.218 | 0.001 | 48039895 | 249.2 | 3 | 11.142 | -0.001 | 43924991 | 276.1 |
| Aroclor-1260 4 | | 11.334 | 0.000 | 22922786 | 277.0 | 4 | 11.663 | -0.001 | 13077340 | 281.5 |
| Aroclor-1260 5 | | 11.407 | -0.001 | 28518434 | 288.6 | NS | --- | | --- | --- |
| Total CollAve (5 peaks): | | | | 269.2 | | Total Col2Ave (4 peaks): | | | 277.1 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 264.4 | | Corrected Ave (3 peaks): | | | 274.1 | RPD = 4 |

Total PCB Area Coll (4.705 - 12.890) = 962281592

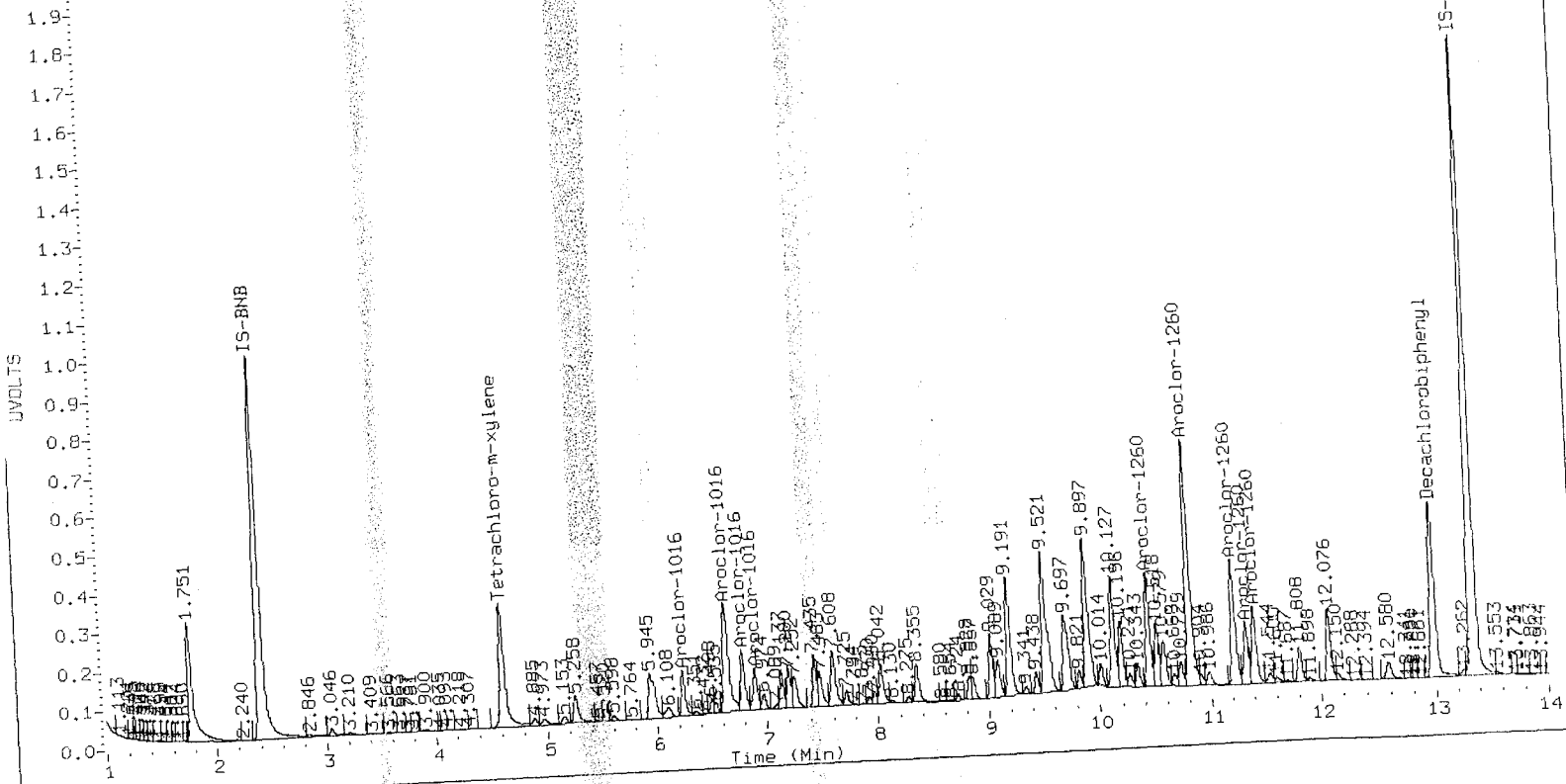
Total PCB Area Col2 (4.707 - 13.264) = 493868580

Coll Total PCB = 0.5 ppm*

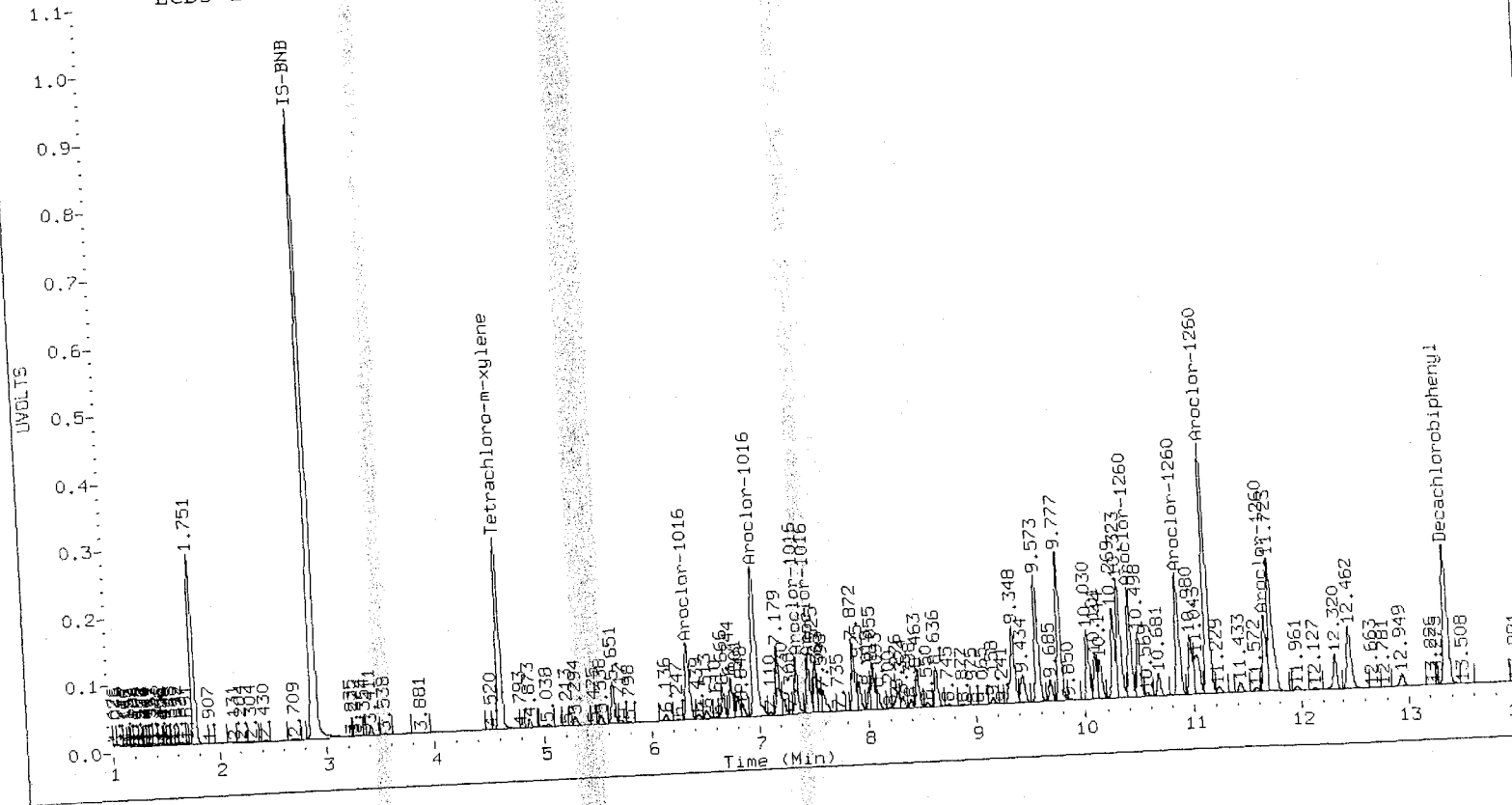
Col2 Total PCB = 0.5 ppm*

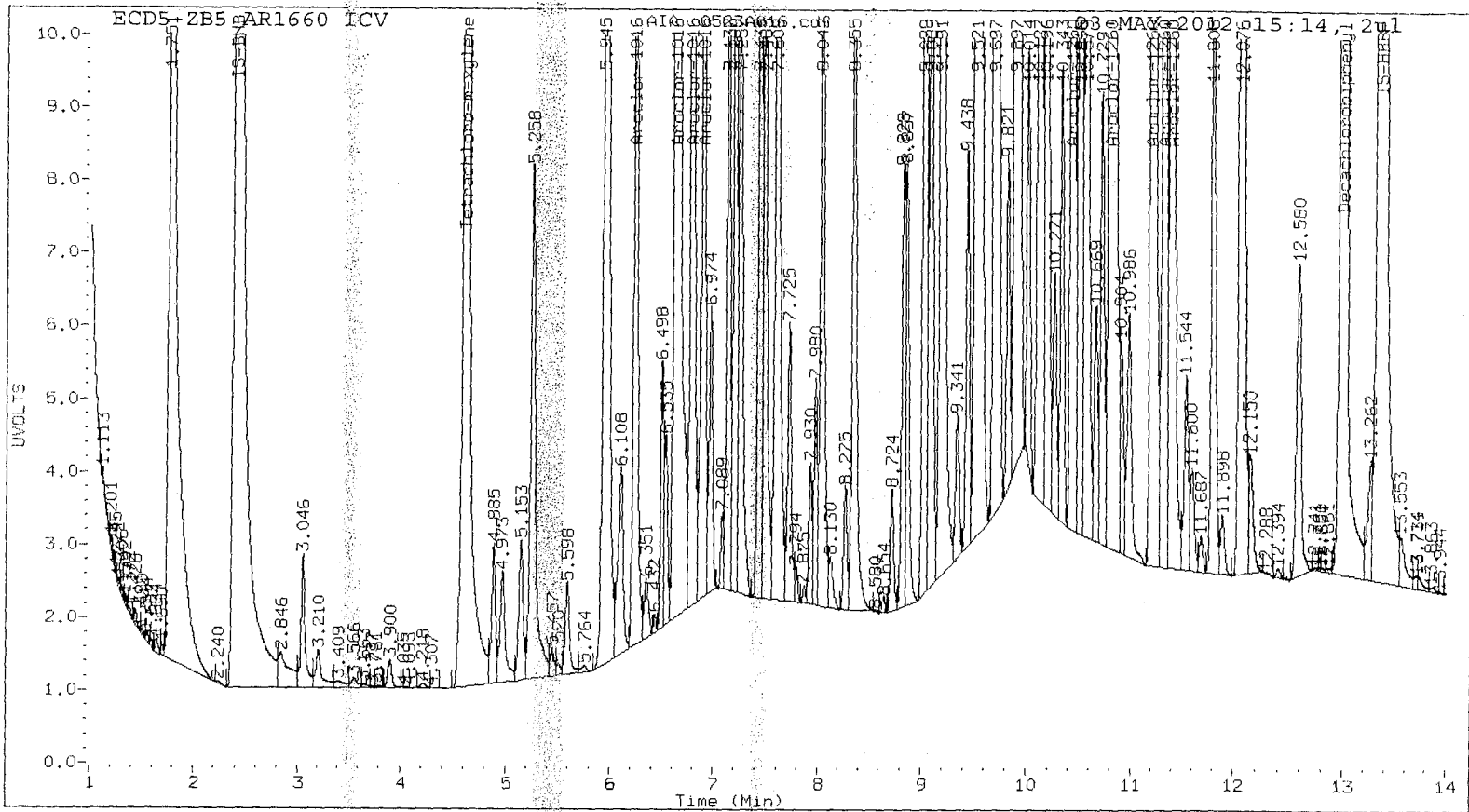
* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 AR1660 ICV



ECD5-ZB35 AR1660 ICV





Analytical Resources Inc.
Dual Column PCBs by SW8082

AR 5/24/2012

Data file 1: 20120523.b/ical-1.b/0523A017.d
Data file 2: 20120523.b/ical-2.b/0523A017.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242 ICV
Client ID:
Injection Date: 23-MAY-2012 15:33
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 4.606 | 0.001 | 50930910 | 4.607 | -0.001 | 32187611 | 19.8 | 20.1 | 1.7 | Tetrachloro-m-xylene |
| 12.989 | -0.001 | 73135666 | 13.362 | -0.002 | 28043011 | 18.3 | 19.6 | 6.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 49.4 | 50.2 |
| Decachlorobiphenyl | 45.9 | 48.9 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 160396254 | 4.0 |
| Hexabromobiphenyl | 248602423 | 259869369 | 4.5 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 113869542 | 2.9 |
| Hexabromobiphenyl | 108855531 | 110961202 | 1.9 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|-------|-------|----------|----------|--------------------------|-------|-------|----------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1242 | 1 | 6.238 | 0.001 | 12387074 | 245.4 | 1 | 6.344 | 0.001 | 11472731 | 246.9 | |
| Aroclor-1242 | 2 | 6.639 | 0.001 | 41405903 | 246.0 | 2 | 6.971 | 0.001 | 25732158 | 243.9 | |
| Aroclor-1242 | 3 | 6.787 | 0.001 | 16657005 | 248.0 | 3 | 7.179 | 0.000 | 8921973 | 208.1 | |
| Aroclor-1242 | 4 | 7.981 | 0.001 | 14954646 | 239.0 | 4 | 8.324 | 0.000 | 8782379 | 235.6 | |
| Total CollAve (4 peaks): | | | | | 244.6 | Total Col2Ave (4 peaks): | | | | | 233.6 RPD = 5 |
| Corrected Ave (3 peaks): | | | | | 243.4 | Corrected Ave (3 peaks): | | | | | 229.2 RPD = 6 |

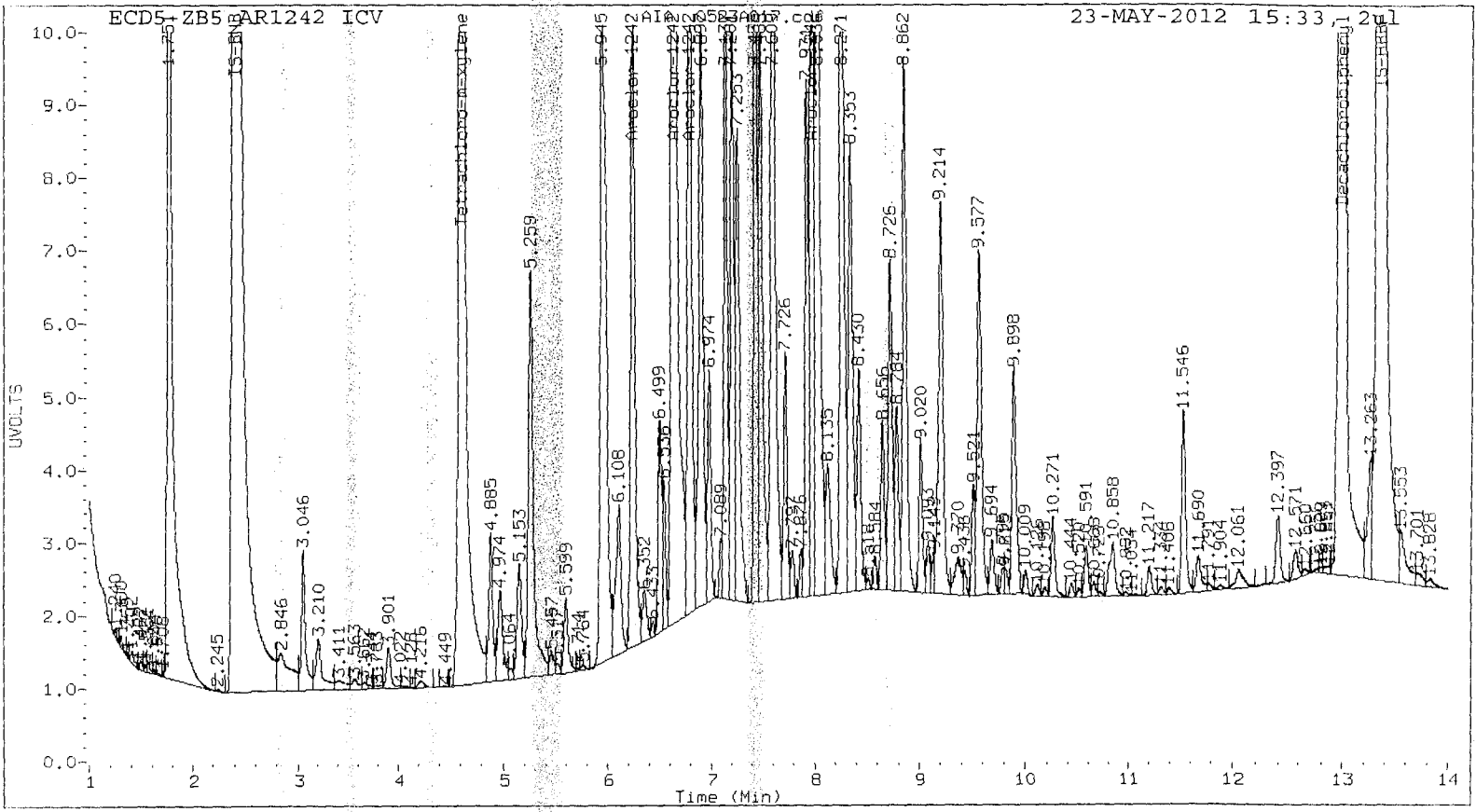
Total PCB Area Col1 (4.705 - 12.890) = 352295236

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 196524698

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

AR 5/24/2012

ARI ID: AR1248 ICV
Client ID:
Injection Date: 23-MAY-2012 15:52
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

ata file 1: 20120523.b/ical-1.b/0523A018.d
ata file 2: 20120523.b/ical-2.b/0523A018.d
ethod: /chem2/ecd5.i/20120523.b/PCB1.m
omponent Sublist: AR1248
nstrument, Inj. Vol.: ecd5.i, 2ul
uant Method: Internal Std

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 4.605 | 0.000 | 52367134 | 4.606 | -0.002 | 33444305 | 20.0 | 20.6 | 2.8 | Tetrachloro-m-xylene |
| 12.989 | -0.001 | 75045652 | 13.363 | -0.001 | 28984282 | 18.5 | 19.8 | 6.9 | Decachlorobiphenyl |

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.0 | 51.5 |
| Decachlorobiphenyl | 46.2 | 49.5 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 162864330 | 5.6 |
| Hexabromobiphenyl | 248602423 | 264734547 | 6.5 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 115475995 | 4.4 |
| Hexabromobiphenyl | 108855531 | 113328734 | 4.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
← Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A018.d

AR1248 ICV

| Aroclor | Peak# | RT | ZB5 Col | | Amount | Peak# | ZB35 Col | | Area | Amount |
|--------------------------|-------|-------|---------|----------|--------------------------|-------|----------|--------|----------|---------|
| | | | Shift | Area | | | RT | Shift | | |
| Aroclor-1248 | 1 | 6.636 | 0.001 | 29097134 | 254.5 | 1 | 6.967 | -0.002 | 17683761 | 255.0 |
| Aroclor-1248 | 2 | 7.434 | 0.000 | 20776597 | 240.5 | 2 | 7.872 | -0.003 | 13425883 | 241.7 |
| Aroclor-1248 | 3 | 7.980 | 0.000 | 26250945 | 237.2 | 3 | 8.324 | -0.002 | 15770717 | 236.1 |
| Aroclor-1248 | 4 | 8.270 | 0.000 | 25907890 | 232.0 | 4 | 8.745 | -0.003 | 17547965 | 232.7 |
| Total CollAve (4 peaks): | | | | 241.1 | Total Col2Ave (4 peaks): | | | | 241.4 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 236.6 | Corrected Ave (3 peaks): | | | | 236.8 | RPD = 0 |

Total PCB Area Col1 (4.705 - 12.890) = 432722885

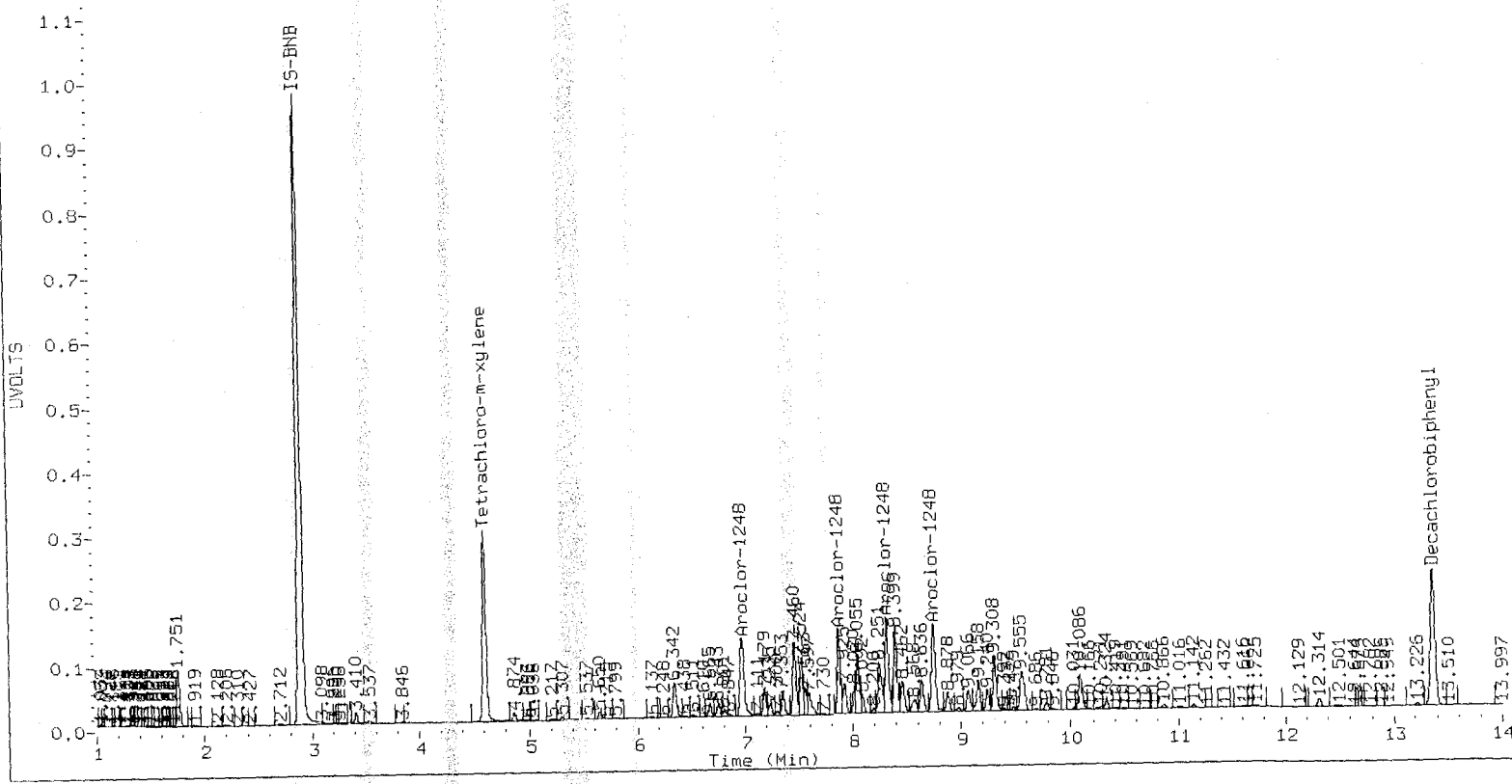
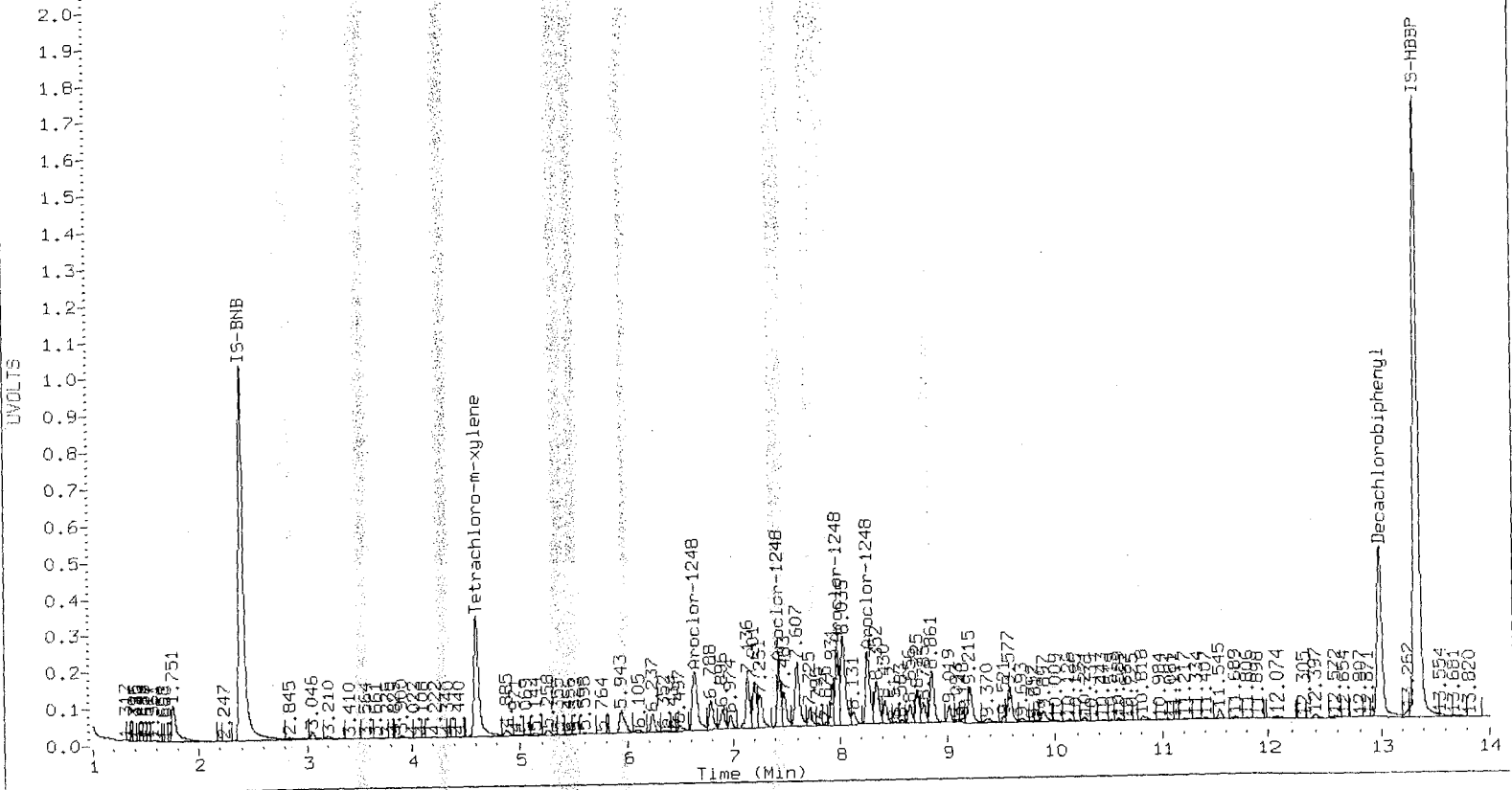
Col1 Total PCB = 0.2 ppm*

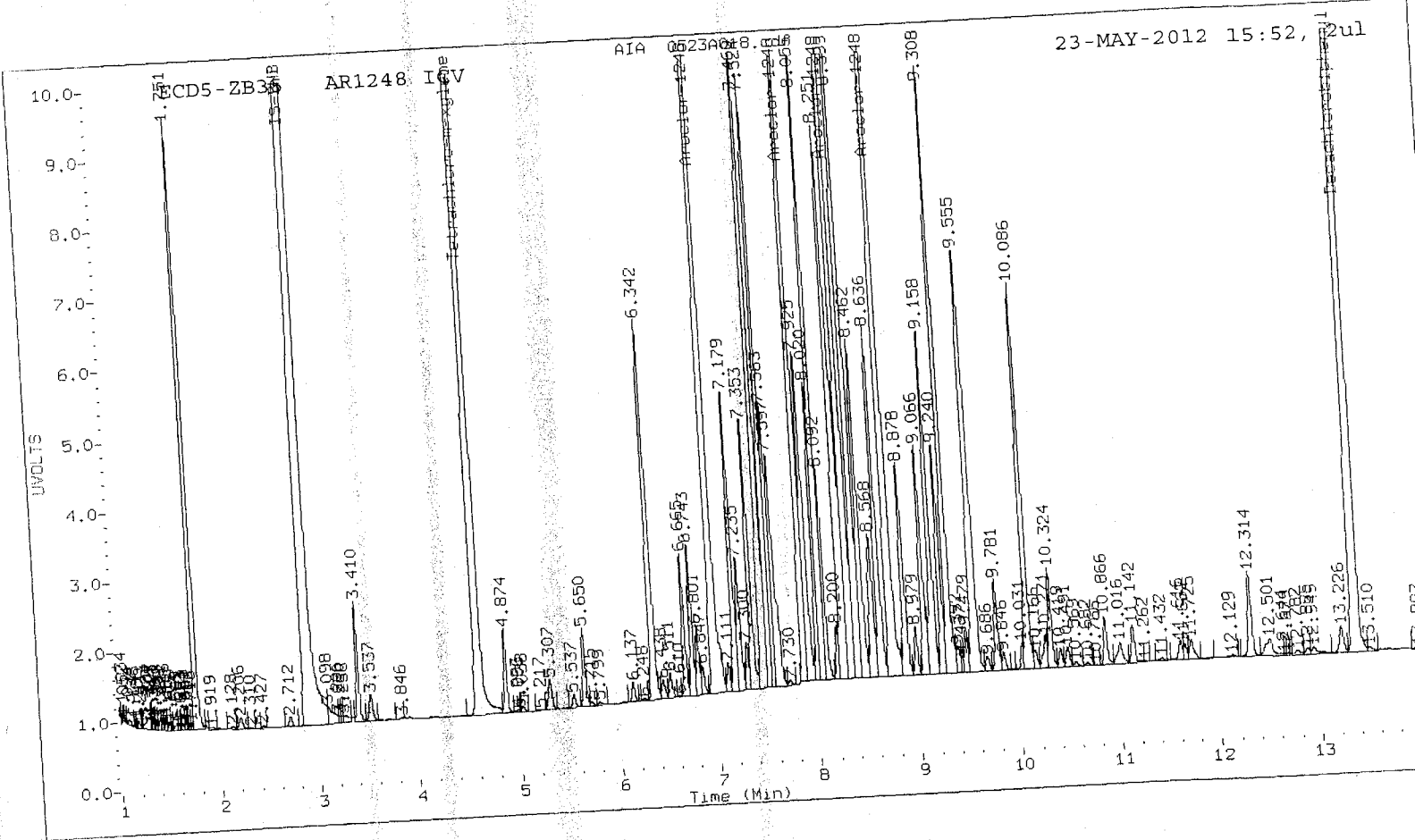
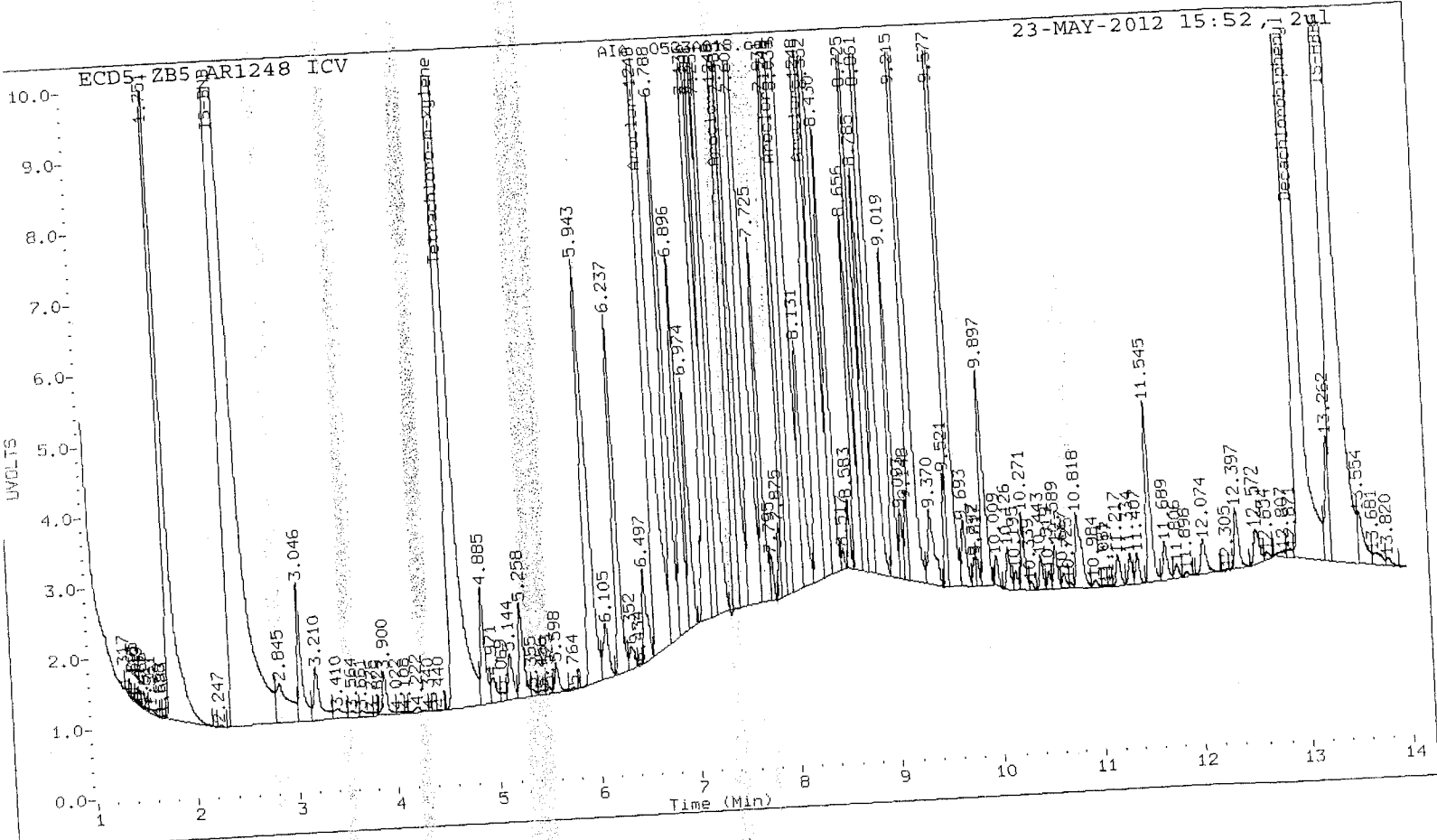
Total PCB Area Col2 (4.708 - 13.264) = 236299209

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

AR Staff 2012

Data file 1: 20120523.b/ical-1.b/0523A019.d
Data file 2: 20120523.b/ical-2.b/0523A019.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254 ICV
Client ID:
Injection Date: 23-MAY-2012 16:11
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col | | RT | ZB35 Col | | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------|----------|--------|----------|----------|---------------|----------------|-----|----------------------|
| | Shift | Response | | Shift | Response | | | | |
| 4.604 | -0.001 | 50868781 | 4.606 | -0.002 | 32286045 | 19.5 | 20.0 | 2.6 | Tetrachloro-m-xylene |
| 12.988 | -0.002 | 73856690 | 13.363 | -0.002 | 28364295 | 18.2 | 19.4 | 6.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 48.6 | 49.9 |
| Decachlorobiphenyl | 45.5 | 48.4 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 162740264 | 5.5 |
| Hexabromobiphenyl | 248602423 | 264518414 | 6.4 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 114989370 | 4.0 |
| Hexabromobiphenyl | 108855531 | 113322609 | 4.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

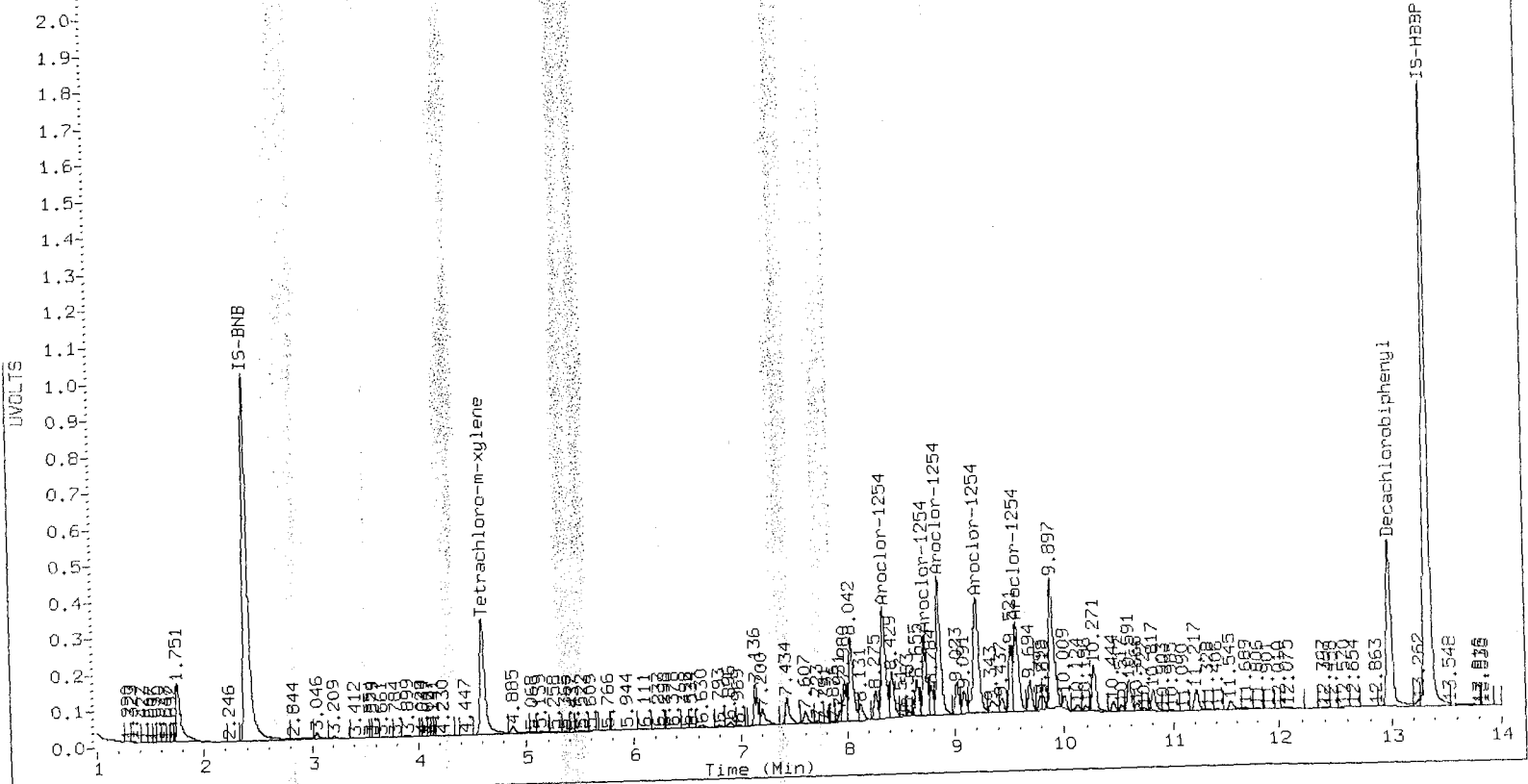
| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|-------|-------|--------------------|--------------------------|-------|--------|--------|----------|--------------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 8.354 | 0.000 | 42528598 | 284.7 | 1 | 8.463 | -0.002 | 14215647 | 281.6 | |
| Aroclor-1254 | 2 | 8.725 | 0.000 | 28284374 | 294.2 <i>x 10%</i> | 2 | 8.636 | -0.002 | 18227173 | 284.1 | |
| Aroclor-1254 | 3 | 8.861 | 0.000 | 51946640 | 279.8 | 3 | 9.158 | -0.001 | 14504174 | 295.8 <i>x 10%</i> | |
| Aroclor-1254 | 4 | 9.211 | 0.001 | 57565076 | 288.0 <i>x 10%</i> | 4 | 9.308 | -0.002 | 30216149 | 278.6 | |
| Aroclor-1254 | 5 | 9.572 | 0.000 | 36946866 | 297.1 <i>x 10%</i> | 5 | 10.091 | -0.003 | 18685008 | 293.9 <i>x 10%</i> | |
| Total Col1Ave (5 peaks): | | | | 288.8 | Total Col2Ave (5 peaks): | | | | 286.8 | RPD = 1 | |
| Corrected Ave (4 peaks): | | | | 286.7 <i>x 20%</i> | Corrected Ave (4 peaks): | | | | 284.5 | RPD = 1 | |

Total PCB Area Col1 (4.705 - 12.890) = 555120246 Col1 Total PCB = 0.3 ppm*

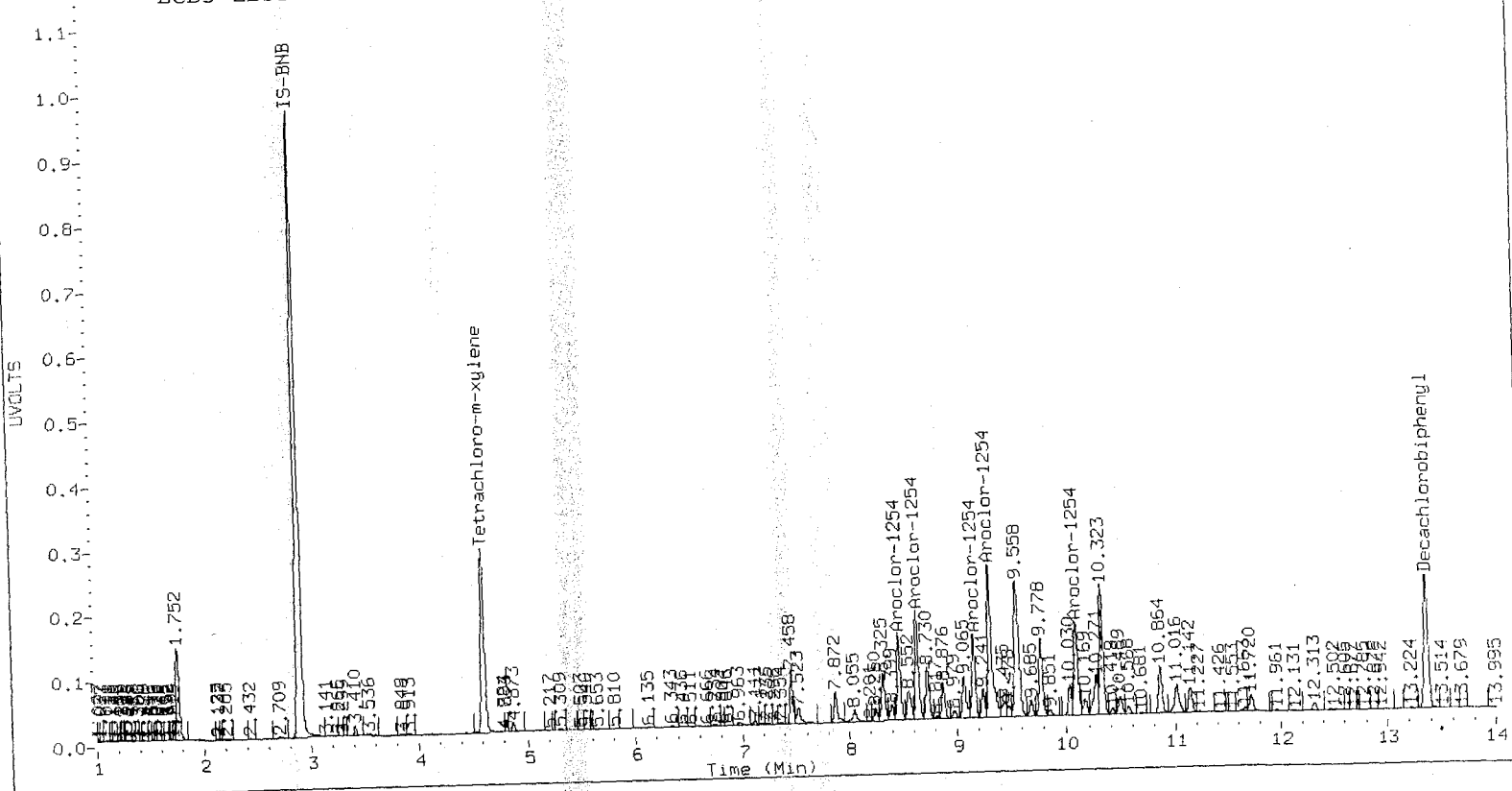
Total PCB Area Col2 (4.708 - 13.264) = 292168808 Col2 Total PCB = 0.3 ppm*

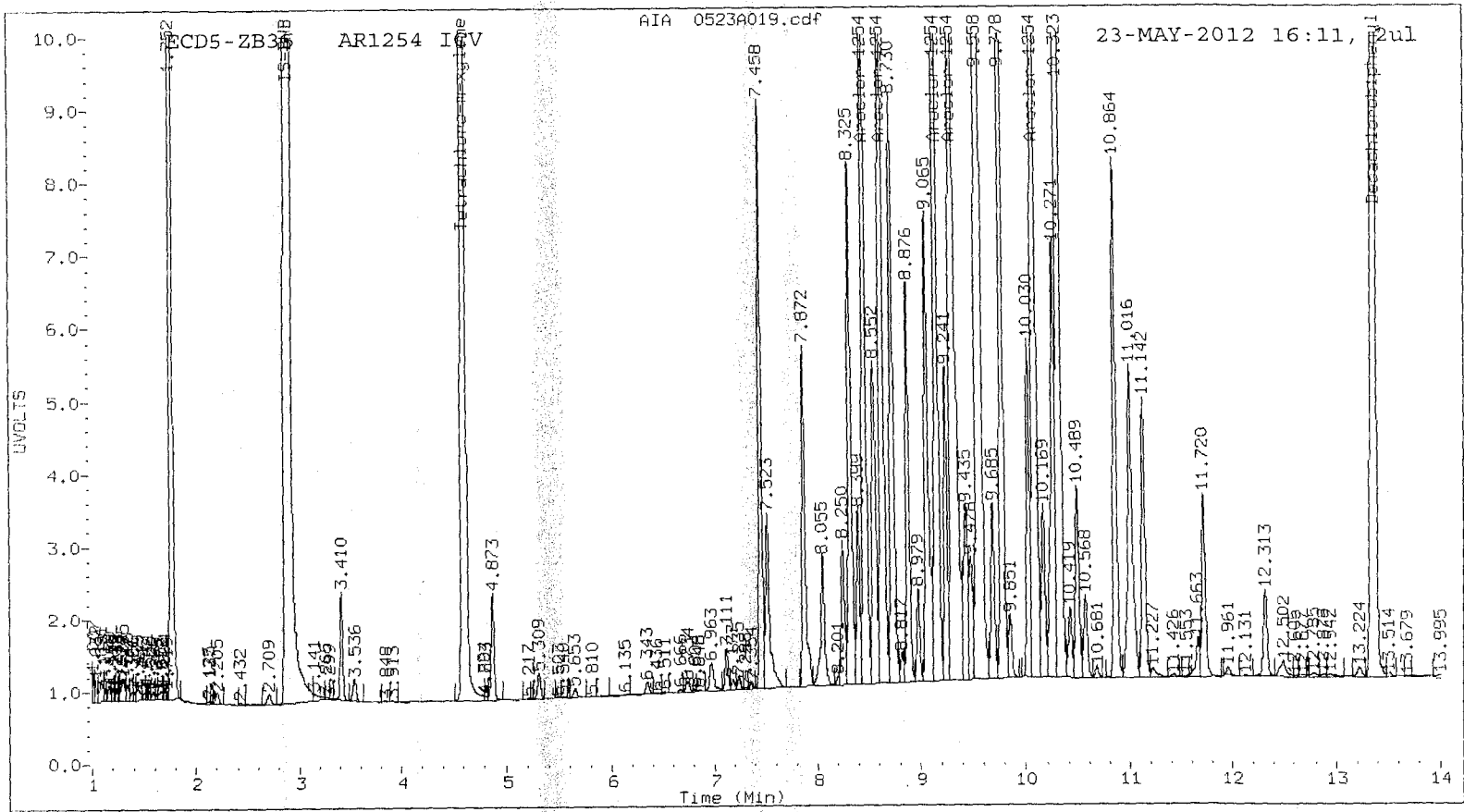
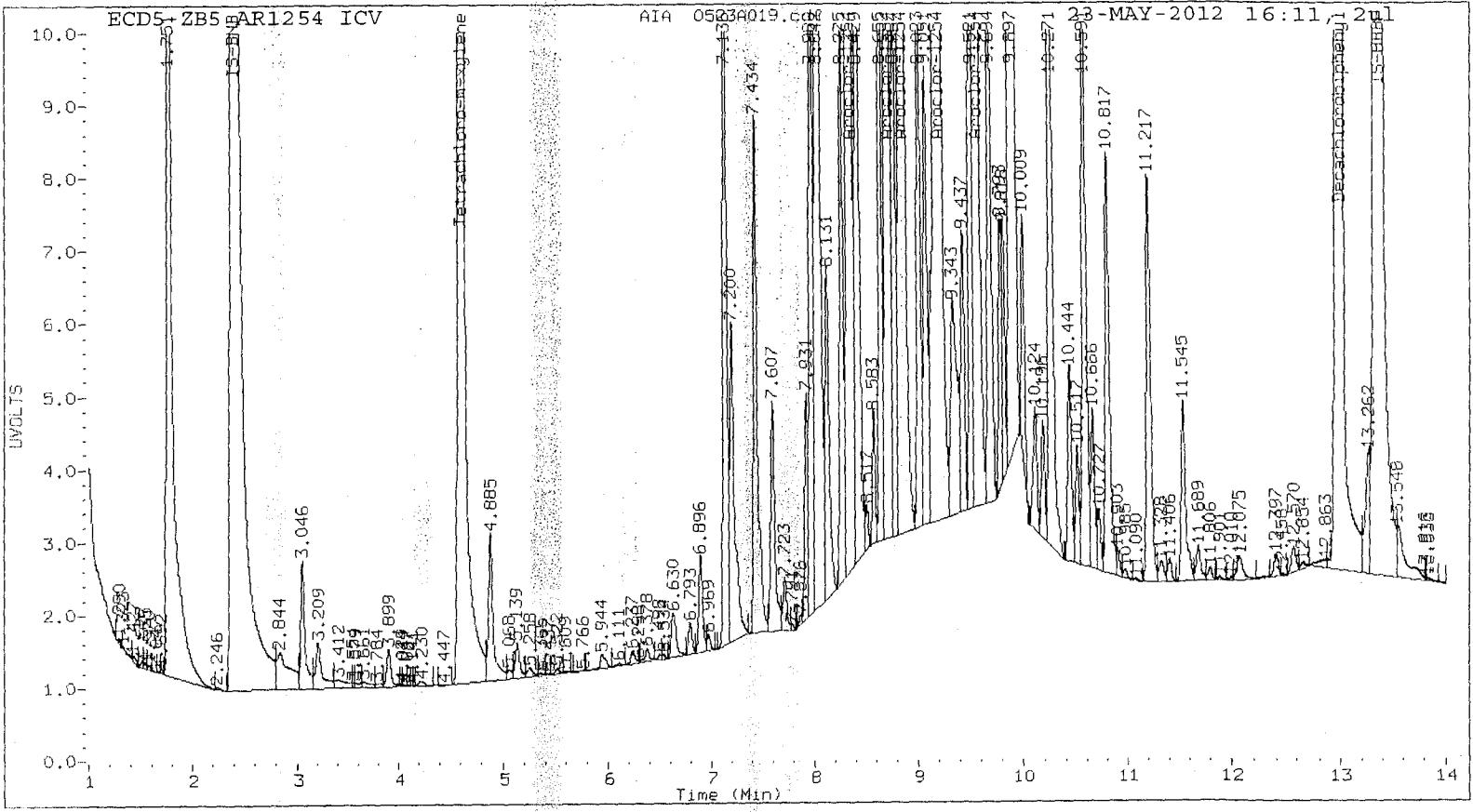
* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 AR1254 ICV



ECD5-ZB35 AR1254 ICV





Analytical Resources Inc.
Dual Column PCBs by SW8082

AR 5/24/2012

Data file 1: 20120523.b/ical-1.b/0523A020.d
Data file 2: 20120523.b/ical-2.b/0523A020.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162 ICV
Client ID:
Injection Date: 23-MAY-2012 16:30
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|--------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.604 | -0.001 | 51207788 | 4.605 | -0.003 | 31927004 | 19.5 | 20.3 | 4.3 | Tetrachloro-m-xylene |
| 12.988 | -0.002 | 72570526 | 13.363 | -0.001 | 28219405 | 17.4 | 18.8 | 7.5 | Decachlorobiphenyl |

* Indicates RPD > 40%

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 48.7 | 50.8 |
| Decachlorobiphenyl | 43.5 | 46.9 |

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 163574544 | 6.1 |
| Hexabromobiphenyl | 248602423 | 271794659 | 9.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 111586981 | 0.9 |
| Hexabromobiphenyl | 108855531 | 116428224 | 7.0 |

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 23-MAY-2012

<- Indicates standard response outside Limits (-50 to +100%)

chem2/ecd5.i/20120523.b/ical-1.b/0523A020.d

AR2162 ICV

| ZB5 Col | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|-------|--------|--------|----------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1221 | 1 | 4.884 | 0.000 | 2753178 | 224.5 | 1 | 5.289 | -0.001 | 4342143 | 246.9 |
| Aroclor-1221 | 2 | 5.153 | 0.000 | 4990138 | 252.8 | 2 | 5.536 | 0.000 | 2561540 | 246.6 |
| Aroclor-1221 | 3 | 5.258 | 0.000 | 16270735 | 251.6 | 3 | 5.649 | 0.000 | 8096744 | 249.2 |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.717 | 0.000 | 1478613 | 248.4 |
| Total CollAve (3 peaks): | | | | 243.0 | Total Col2Ave (4 peaks): | | | | 247.8 | RPD = 2 |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 247.3 | |
| Aroclor-1262 | 1 | 10.127 | -0.001 | 50760077 | 234.3 | 1 | 10.419 | 0.000 | 25410467 | 233.0 |
| Aroclor-1262 | 2 | 10.444 | 0.000 | 44803653 | 270.7 | 2 | 10.870 | 0.000 | 25371078 | 269.7 |
| Aroclor-1262 | 3 | 10.818 | 0.000 | 98755021 | 218.3 | 3 | 11.142 | 0.000 | 46428165 | 217.4 |
| Aroclor-1262 | 4 | 11.334 | 0.000 | 45937839 | 277.9 | 4 | 11.663 | -0.001 | 23297660 | 271.1 |
| Aroclor-1262 | 5 | 11.407 | 0.000 | 48991469 | 260.6 | 5 | 12.462 | -0.001 | 18614849 | 232.6 |
| Total CollAve (5 peaks): | | | | 252.4 | Total Col2Ave (5 peaks): | | | | 244.8 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 246.0 | Corrected Ave (4 peaks): | | | | 238.2 | RPD = 3 |

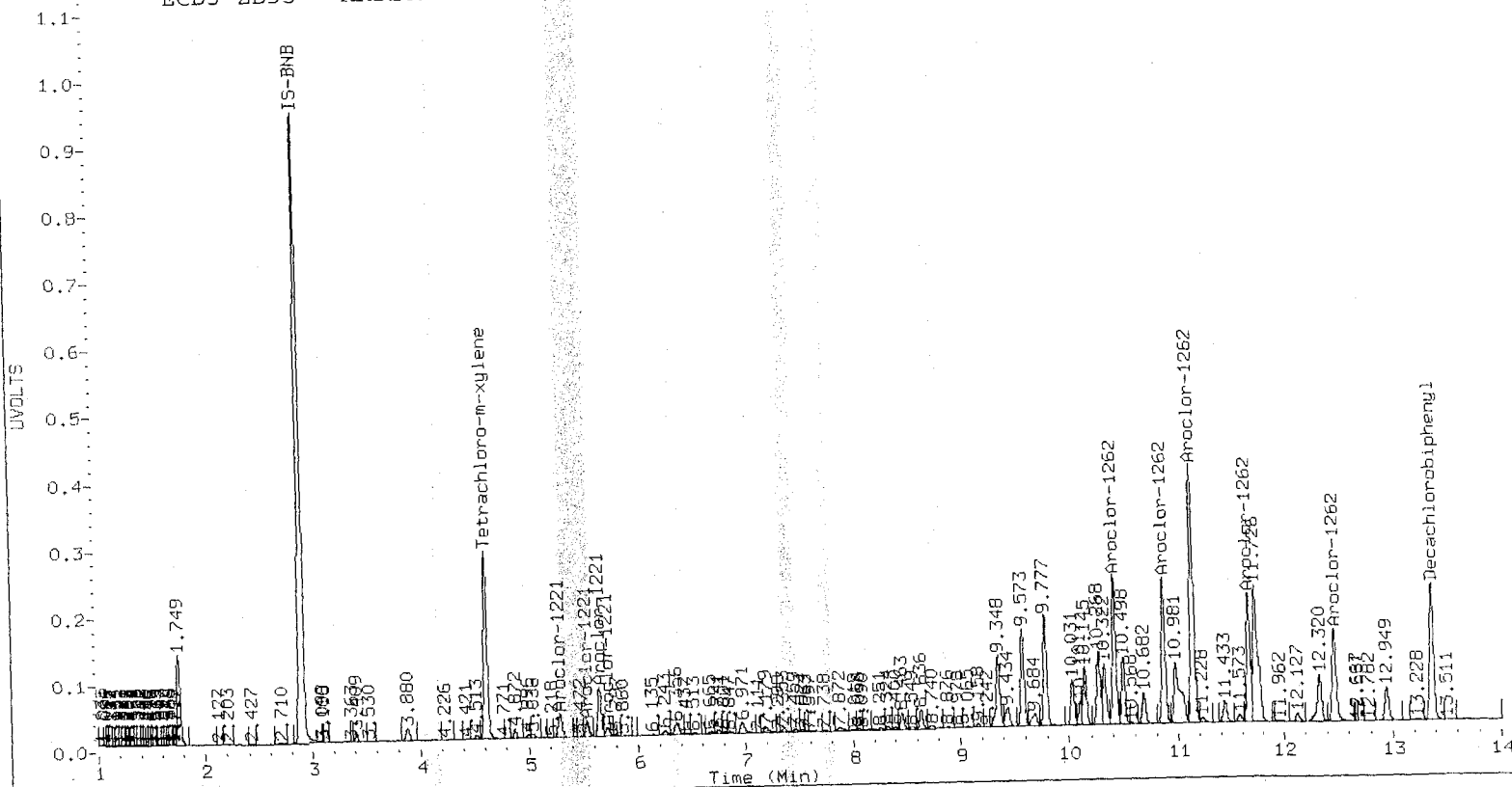
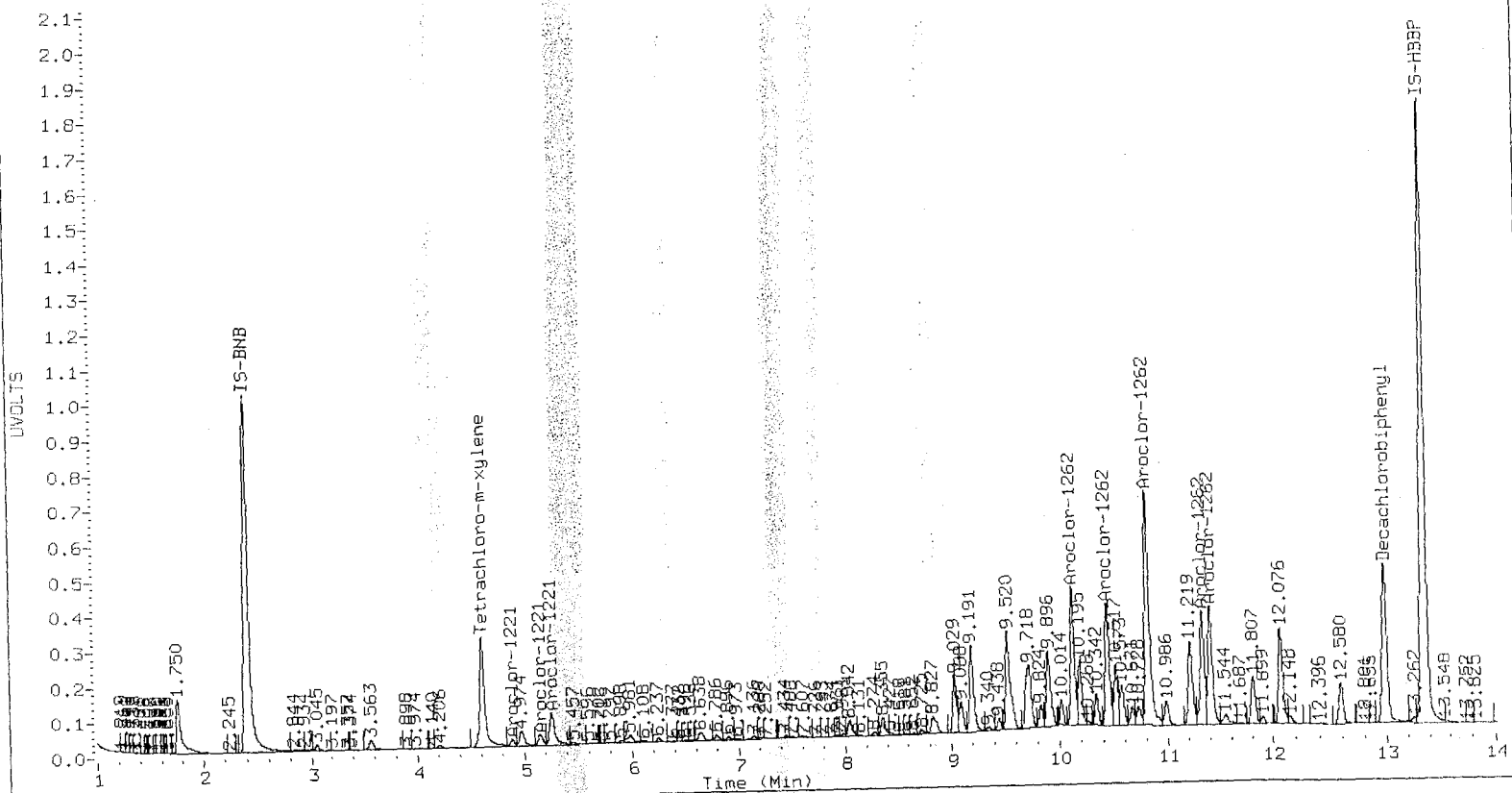
Total PCB Area Coll (4.705 - 12.890) = 783819371

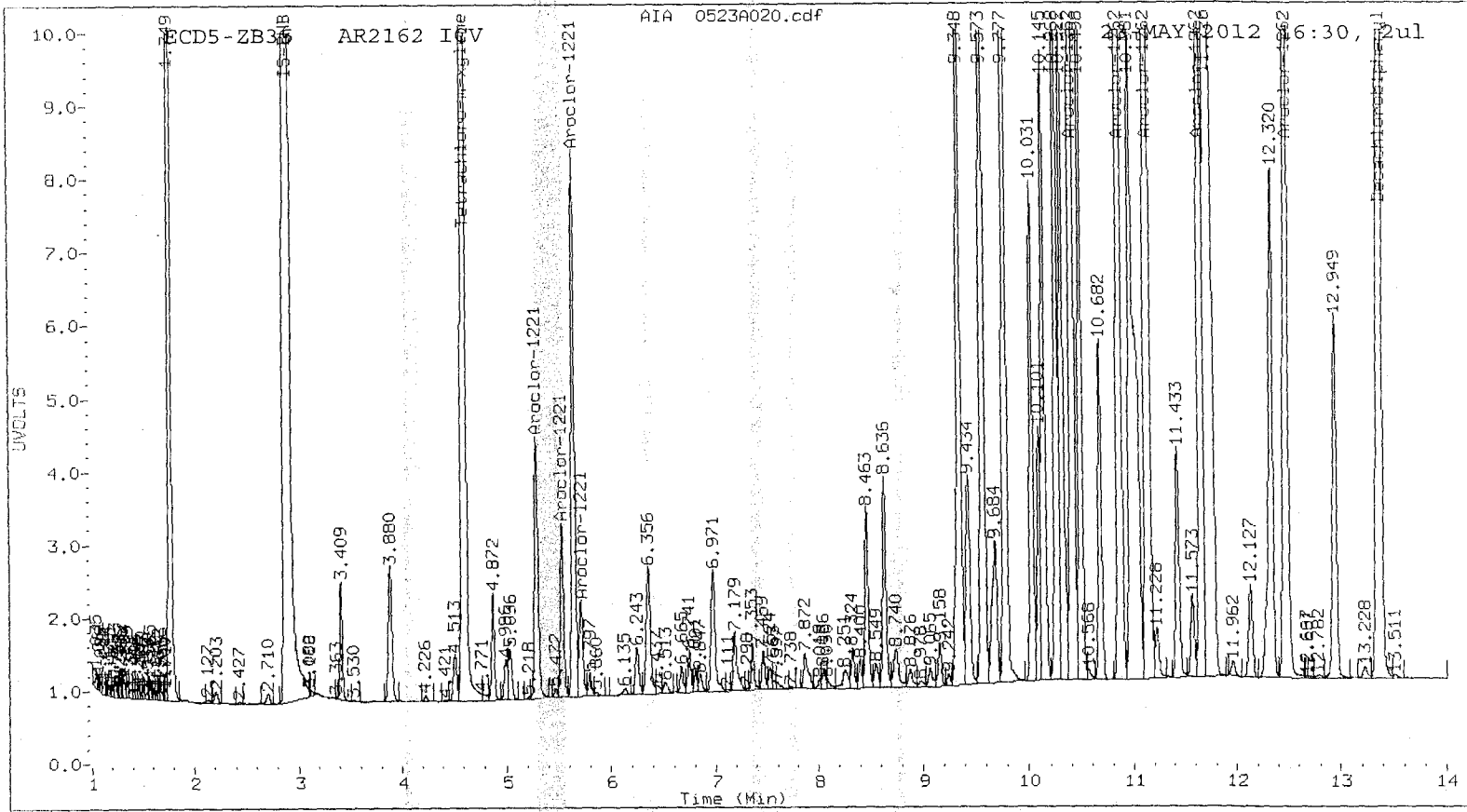
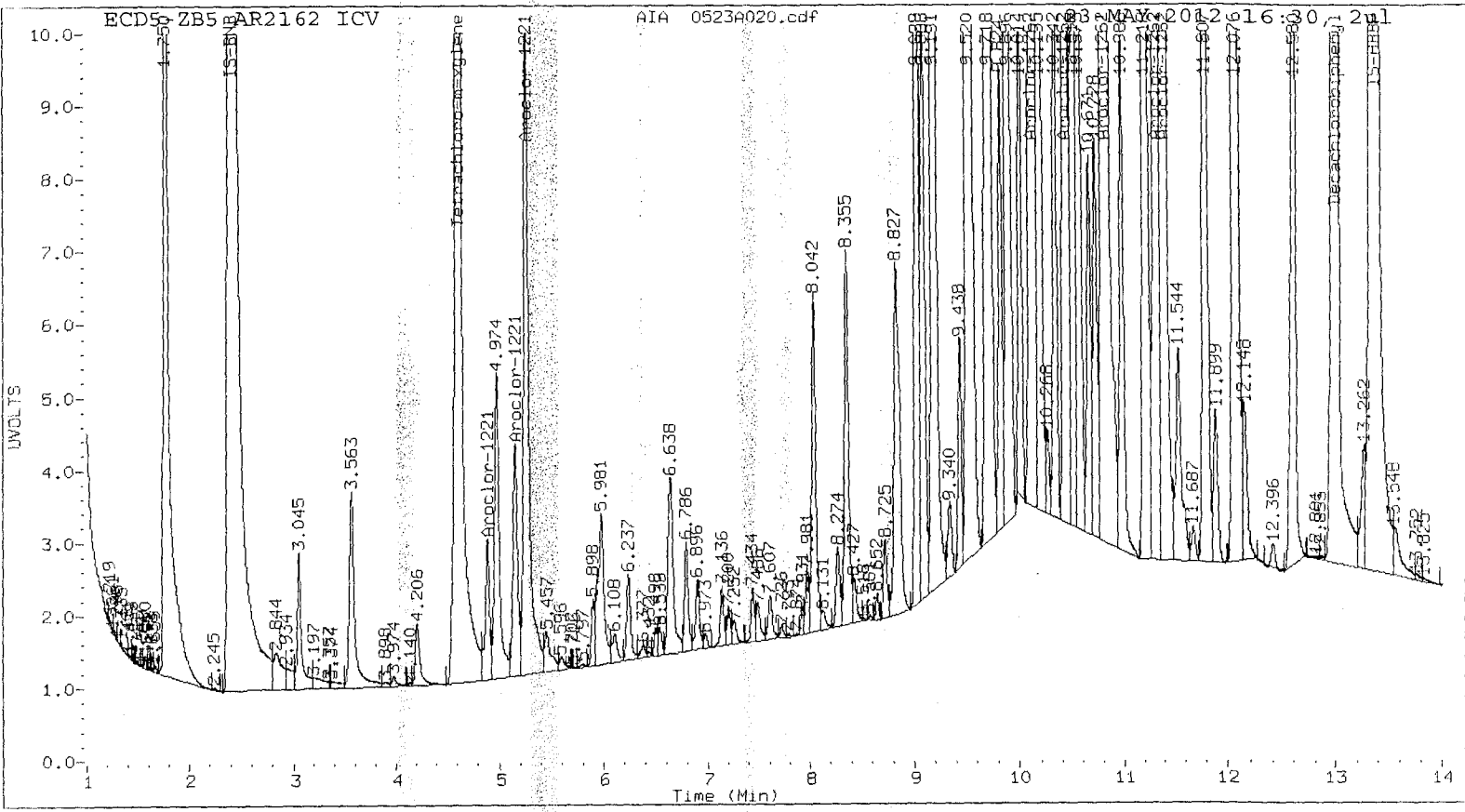
Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 375950839

Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

AR3268

Data file 1: 20120523.b/ical-1.b/0523A021.d
Data file 2: 20120523.b/ical-2.b/0523A021.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268 ICV
Client ID:
Injection Date: 23-MAY-2012 16:49
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|-----------|----------|--------|----------|--------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.604 | -0.001 | 52420085 | 4.605 | -0.003 | 32899630 | 20.3 | 20.7 | 2.1 | Tetrachloro-m-xylene |
| 12.989 | -0.002 | 113068617 | 13.363 | -0.002 | 46248435 | 28.4 | 31.8 | 11.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.8 | 51.9 |
| Decachlorobiphenyl | 71.0 | 79.5 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 160640381 | 4.2 |
| Hexabromobiphenyl | 248602423 | 259555077 | 4.4 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 112744652 | 1.9 |
| Hexabromobiphenyl | 108855531 | 112598173 | 3.4 |

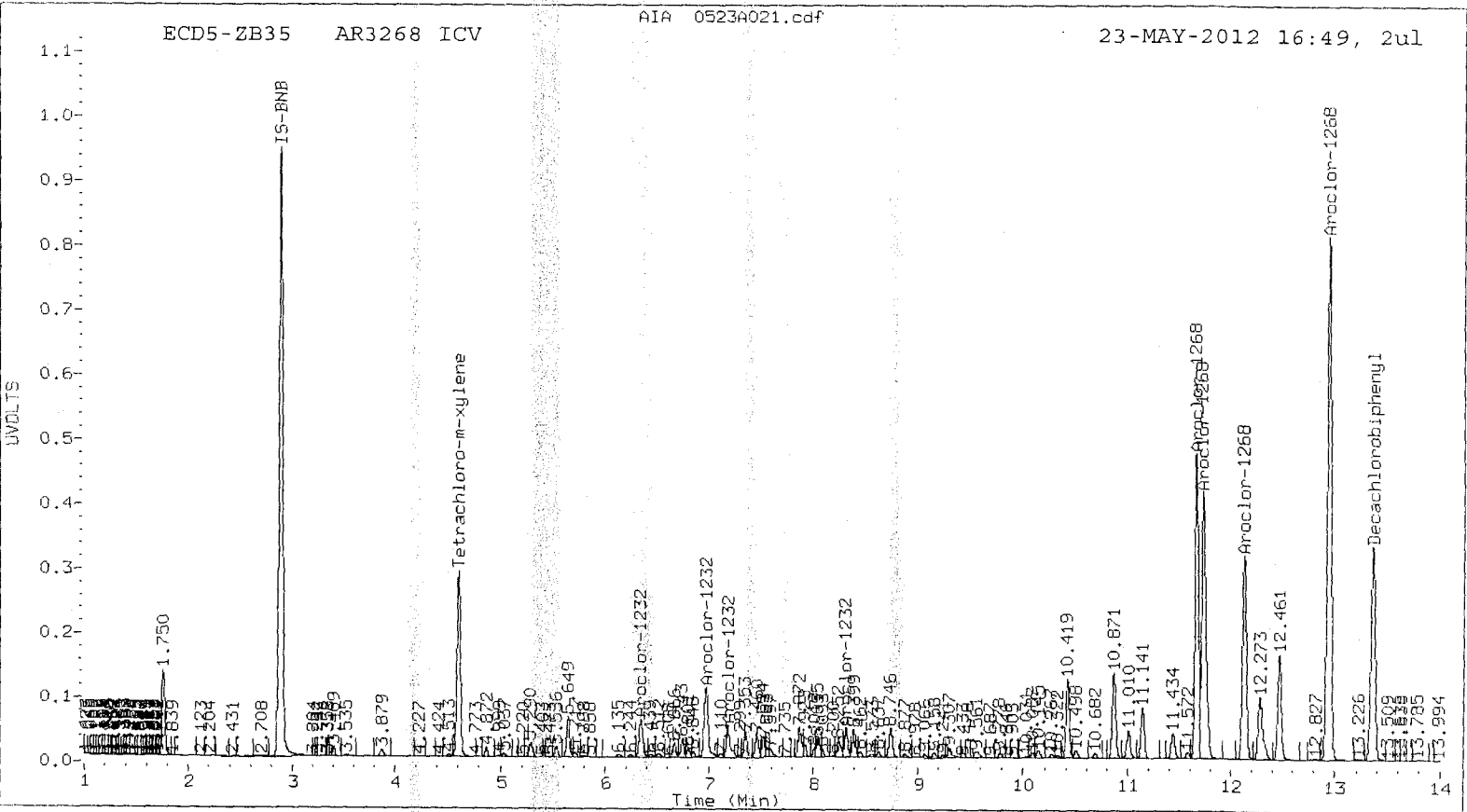
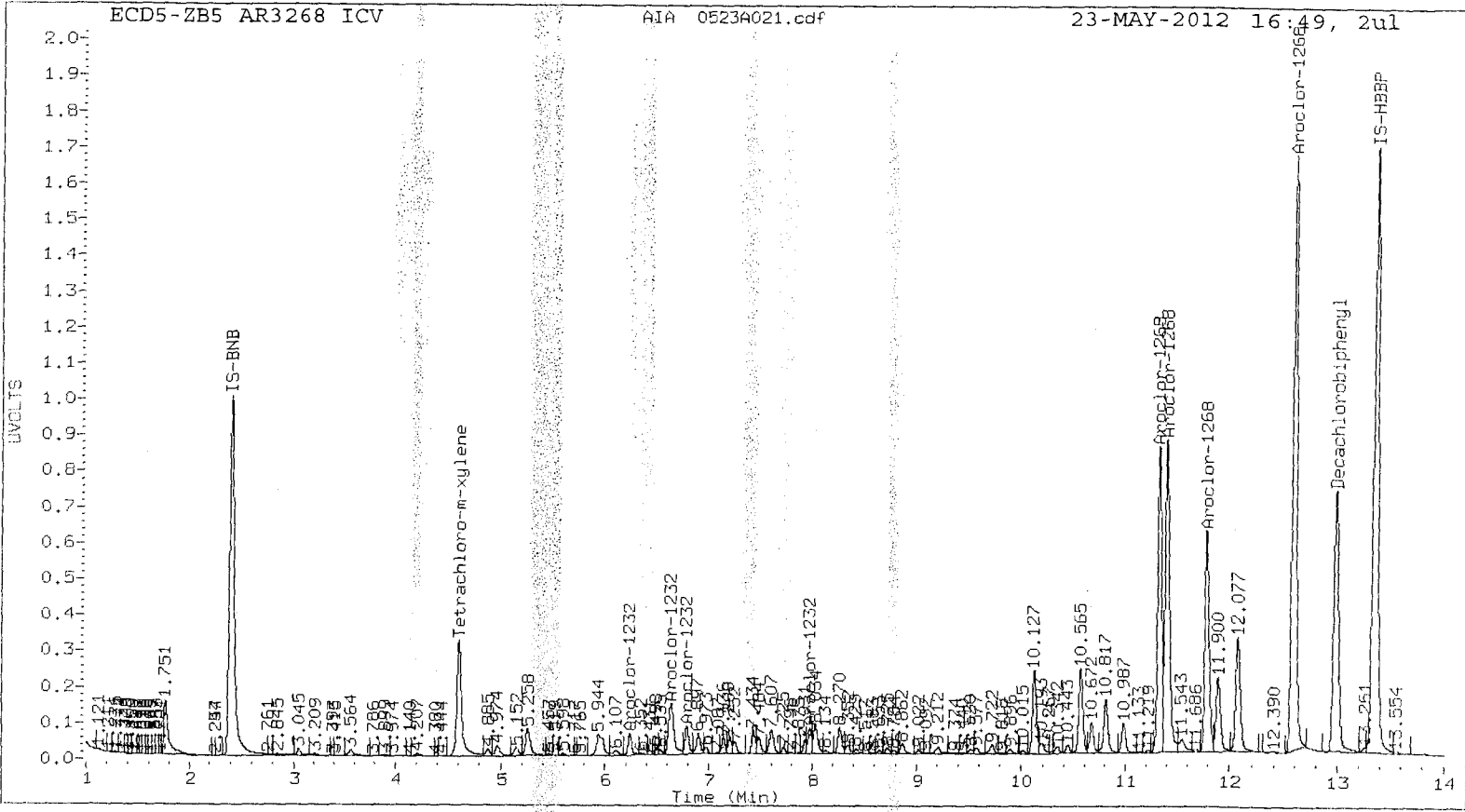
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

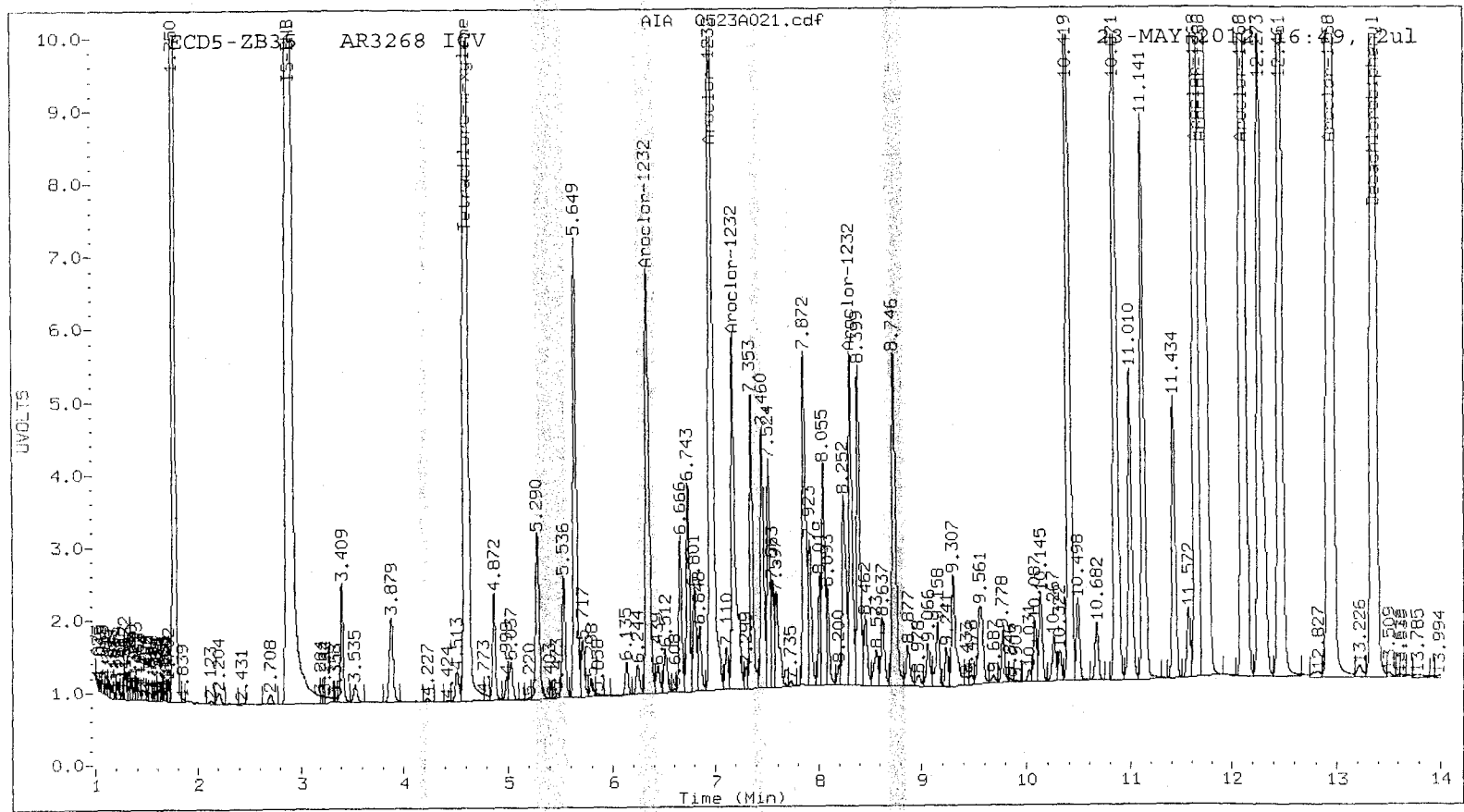
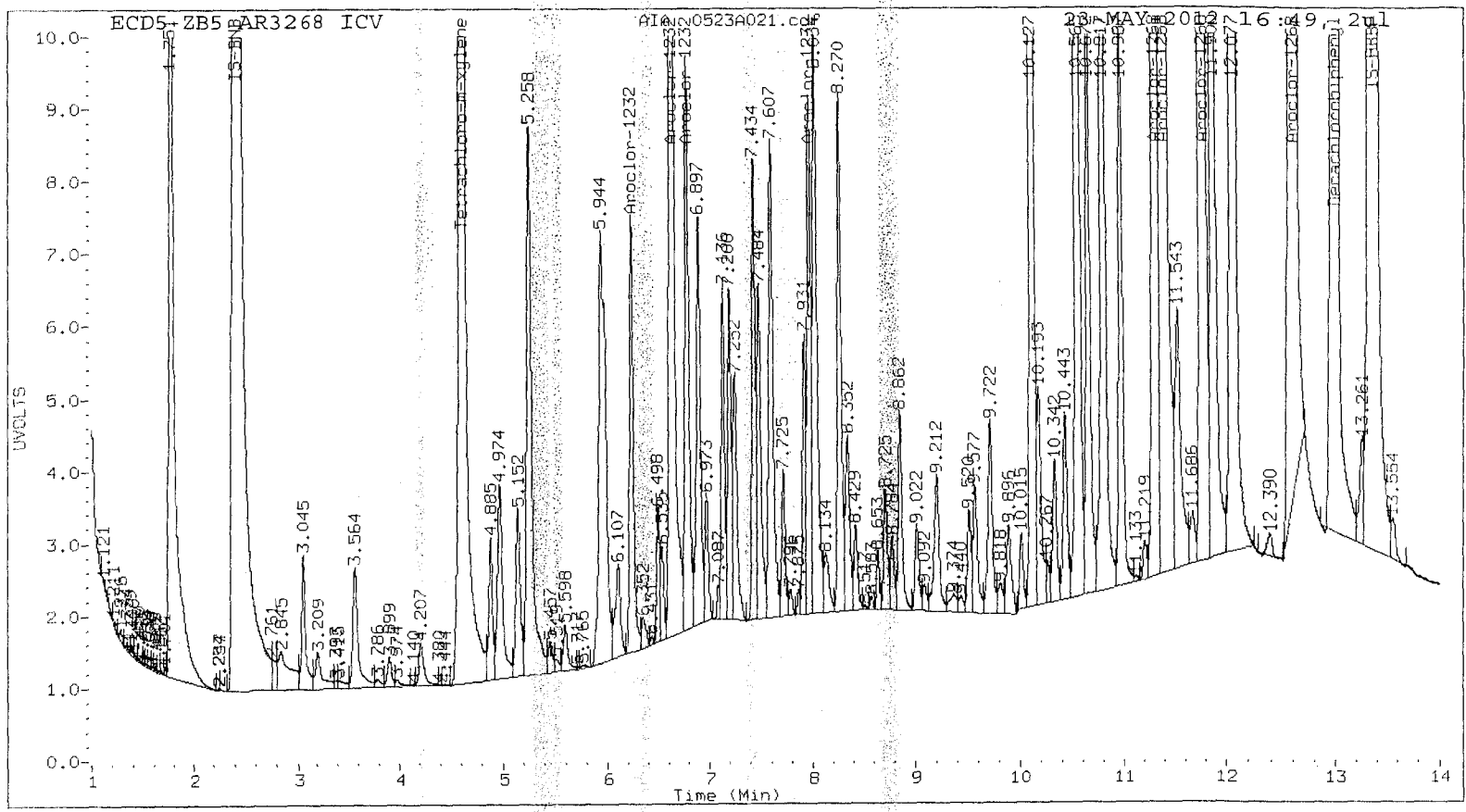
| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|-----------|--------|--------------------------|--------|--------|-----------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1232 | 1 | 6.237 | -0.001 | 7823892 | 279.5 | 1 | 6.344 | -0.002 | 7573428 | 278.9 | |
| Aroclor-1232 | 2 | 6.638 | -0.001 | 25727481 | 276.4 | 2 | 6.971 | 0.000 | 15545898 | 273.4 | |
| Aroclor-1232 | 3 | 6.786 | -0.001 | 10438838 | 276.5 | 3 | 7.178 | -0.001 | 6333896 | 330.2 | |
| Aroclor-1232 | 4 | 7.980 | 0.000 | 8488976 | 234.1 | 4 | 8.324 | -0.001 | 4905710 | 233.3 | |
| Total CollAve (4 peaks): | | | | | 266.6 | Total Col2Ave (4 peaks): | | | | | 279.0 RPD = 5 |
| Corrected Ave (3 peaks): | | | | | 262.3 | Corrected Ave (3 peaks): | | | | | 261.9 RPD = 0 |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.335 | -0.001 | 115870020 | 262.2 | 1 | 11.664 | 0.000 | 56550160 | 263.1 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 126342154 | 284.3 | 2 | 11.730 | 0.000 | 58232226 | 287.4 | |
| Aroclor-1268 | 3 | 11.792 | 0.000 | 88032592 | 237.3 | 3 | 12.128 | 0.000 | 40068576 | 235.5 | |
| Aroclor-1268 | 4 | 12.583 | -0.002 | 241089485 | 221.0 | 4 | 12.949 | -0.001 | 107384317 | 223.4 | |
| Total CollAve (4 peaks): | | | | | 251.2 | Total Col2Ave (4 peaks): | | | | | 252.3 RPD = 0 |
| Corrected Ave (3 peaks): | | | | | 240.2 | Corrected Ave (3 peaks): | | | | | 240.6 RPD = 0 |

Total PCB Area Coll (4.705 - 12.890) = 990490550 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 468074693 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0523A022.d

ARI ID: DDT

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|-----------|----------|-------|-----------|--------|--------|-------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.321 | 0.000 | 182884525 | 8.726 | 0.000 | 97869021 | 0.100 | 0.100 | 0.0 | 2,4-DDE |
| 8.871 | 0.000 | 175944184 | 9.410 | 0.000 | 88359613 | 0.100 | 0.100 | 0.0 | 2,4-DDD |
| 9.375 | 0.000 | 211387307 | 9.872 | 0.000 | 240838277 | 0.100 | 0.200# | 66.7* | 2,4-DDT |
| 8.753 | 0.000 | 291568267 | 9.112 | 0.000 | 163207823 | 0.100 | 0.100 | 0.0 | 4,4-DDE |
| 9.325 | 0.000 | 238101364 | 9.872 | 0.000 | 240838277 | 0.100 | 0.200# | 66.7* | 4,4-DDD |
| 9.837 | 0.000 | 268202406 | 10.310 | 0.000 | 142850426 | 0.100 | 0.100 | 0.0 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

7E

8082 DDT BREAKDOWN VERIFICATION SUMMARY

Lab ID: DDT BD

Analysis Date: 23-MAY-2012 17:27

Init. Calib. Date: 23-MAY-2012

GC Column: ZB5

ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|----------|-------|-----------|
| 4,4-DDE | 8.752 | 1982823 |
| 4,4-DDD | 9.333 | 9789677 |
| 4,4-DDT | 9.840 | 297869087 |

Col 1: 4,4-DDT Percent Breakdown = 3.8 %

GC Column: ZB35

ID: 0.53 (mm)

| COMPOUND | RT | AREA |
|-----------------|--------|-----------|
| 4,4-DDE | 9.113 | 712817 |
| 4,4-DDD/2,4-DDT | 9.881 | 4165713 |
| 4,4-DDT | 10.310 | 166815904 |

Col 2: 4,4-DDT Percent Breakdown = 2.8 %

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

UU52:01676

**PCB Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: UU52, UU62



GC Analyst Notes / Corrective Action Log

ARI Project ID: UU52 Client ID: Jeld Wen Mansby

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): PCB's TCMX DCB

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 05/23/12 Analysis Start: 05/25/12

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
Manual Integrations for ICal? YES / NO Manual Integrations for Samples? 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):

skipped baseline rise in samples, misc peaks throughout went w/ best fit w/ regards to 48, 54/misc. peaks inflate y-flags for 48 are for AR1016 → 1248 range. see DDT's screens 05/29/12

Very wet samples - 9-16% Solids -

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 05/29/12

Reviewer: [Signature] Date: 5/29/12

Analytical Resources Inc.: Organics Instrument Log

ECD-5 Serial No.: US00034118

Date: 05/25/12 Analysis: PCB's Analyst: R
 Column 1 Serial No.: 196398 Column Type: ZB5
 Column 2 Serial No.: 182259 Column Type: ZB33
 GC Method: PCB ICal Date: 05/23/12 Injection Volume: 2µl

| IS | Ical/Ccal | ICV |
|---------------|-------------------------|-----------------------|
| <u>1878-3</u> | <u>1980-1,2,3,4,5,6</u> | <u>1923-1,2,3,4,5</u> |
| | | <u>1928-2</u> |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

| Inject Date/Time | Filename | DF | LabID | Inject Date/Time | Filename | DF | LabID |
|----------------------|------------|----|------------|----------------------|------------|----|----------|
| 1 25-MAY-2012 08:16 | 0525A001.d | 1 | DDT | 51 26-MAY-2012 00:06 | 0525A051.d | 1 | UU52E |
| 2 25-MAY-2012 08:35 | 0525A002.d | 1 | DDT BD | 52 26-MAY-2012 00:25 | 0525A052.d | 1 | UU52F |
| 3 25-MAY-2012 08:54 | 0525A003.d | 1 | AR1242 | 53 26-MAY-2012 00:44 | 0525A053.d | 1 | UU52G |
| 4 25-MAY-2012 09:13 | 0525A004.d | 1 | AR1660 | 54 26-MAY-2012 01:03 | 0525A054.d | 1 | AR1242 |
| 5 25-MAY-2012 09:32 | 0525A005.d | 1 | UU97MBW1 | 55 26-MAY-2012 01:22 | 0525A055.d | 1 | AR1660 |
| 6 25-MAY-2012 09:51 | 0525A006.d | 1 | UU97LCSDW1 | 56 26-MAY-2012 01:41 | 0525A056.d | 1 | UU52H |
| 7 25-MAY-2012 10:10 | 0525A007.d | 1 | UU97QLS | 57 26-MAY-2012 02:00 | 0525A057.d | 1 | UU52I |
| 8 25-MAY-2012 10:29 | 0525A008.d | 1 | UU97A | 58 26-MAY-2012 02:19 | 0525A058.d | 1 | UU52J |
| 9 25-MAY-2012 10:48 | 0525A009.d | 1 | UU94A | 59 26-MAY-2012 02:38 | 0525A059.d | 1 | UU52JMS |
| 10 25-MAY-2012 11:07 | 0525A010.d | 1 | UU94B | 60 26-MAY-2012 02:57 | 0525A060.d | 1 | UU52JMSD |
| 11 25-MAY-2012 11:26 | 0525A011.d | 1 | UU94C | 61 26-MAY-2012 03:16 | 0525A061.d | 1 | AR1248 |
| 12 25-MAY-2012 11:45 | 0525A012.d | 1 | UU94D | 62 26-MAY-2012 03:35 | 0525A062.d | 1 | AR1660 |
| 13 25-MAY-2012 12:04 | 0525A013.d | 1 | UU94E | | | | |
| 14 25-MAY-2012 12:23 | 0525A014.d | 1 | UU94F | | | | |
| 15 25-MAY-2012 12:42 | 0525A015.d | 1 | AR1248 | | | | |
| 16 25-MAY-2012 13:01 | 0525A016.d | 1 | AR1660 | | | | |
| 17 25-MAY-2012 13:20 | 0525A017.d | 1 | UV59MBS1 | | | | |
| 18 25-MAY-2012 13:39 | 0525A018.d | 1 | UV59LCSS1 | | | | |
| 19 25-MAY-2012 13:58 | 0525A019.d | 1 | UV59T | | | | |
| 20 25-MAY-2012 14:17 | 0525A020.d | 1 | UV59TMS | | | | |
| 21 25-MAY-2012 14:36 | 0525A021.d | 1 | UV59TMSD | | | | |
| 22 25-MAY-2012 14:55 | 0525A022.d | 1 | AR1254 | | | | |
| 23 25-MAY-2012 15:14 | 0525A023.d | 1 | AR1660 | | | | |
| 24 25-MAY-2012 15:33 | 0525A024.d | 1 | UU97MBW1 | | | | |
| 25 25-MAY-2012 15:52 | 0525A025.d | 1 | UU97LCSDW1 | | | | |
| 26 25-MAY-2012 16:11 | 0525A026.d | 1 | UU97LCSDW1 | | | | |
| 27 25-MAY-2012 16:30 | 0525A027.d | 1 | UU97QLS | | | | |
| 28 25-MAY-2012 16:49 | 0525A028.d | 1 | UU97A | | | | |
| 29 25-MAY-2012 17:08 | 0525A029.d | 1 | UU94A | | | | |
| 30 25-MAY-2012 17:27 | 0525A030.d | 1 | UU94B | | | | |
| 31 25-MAY-2012 17:46 | 0525A031.d | 1 | UU94C | | | | |
| 32 25-MAY-2012 18:05 | 0525A032.d | 1 | UU94D | | | | |
| 33 25-MAY-2012 18:24 | 0525A033.d | 1 | UU94E | | | | |
| 34 25-MAY-2012 18:43 | 0525A034.d | 1 | AR1248 | | | | |
| 35 25-MAY-2012 19:02 | 0525A035.d | 1 | AR1660 | | | | |
| 36 25-MAY-2012 19:21 | 0525A036.d | 1 | AR1248 | | | | |
| 37 25-MAY-2012 19:40 | 0525A037.d | 1 | AR1660 | | | | |
| 38 25-MAY-2012 19:59 | 0525A038.d | 1 | UV59MBS1 | | | | |
| 39 25-MAY-2012 20:18 | 0525A039.d | 1 | UV59LCSS1 | | | | |
| 40 25-MAY-2012 20:37 | 0525A040.d | 5 | UV59T | | | | |
| 41 25-MAY-2012 20:56 | 0525A041.d | 5 | UV59TMS | | | | |
| 42 25-MAY-2012 21:15 | 0525A042.d | 5 | UV59TMSD | | | | |
| 43 25-MAY-2012 21:34 | 0525A043.d | 1 | AR1254 | | | | |
| 44 25-MAY-2012 21:53 | 0525A044.d | 1 | AR1660 | | | | |
| 45 25-MAY-2012 22:12 | 0525A045.d | 1 | UU52MBS1 | | | | |
| 46 25-MAY-2012 22:31 | 0525A046.d | 1 | UU52LCSS1 | | | | |
| 47 25-MAY-2012 22:50 | 0525A047.d | 1 | UU52A | | | | |
| 48 25-MAY-2012 23:09 | 0525A048.d | 1 | UU52B | | | | |
| 49 25-MAY-2012 23:28 | 0525A049.d | 1 | UU52C | | | | |
| 50 25-MAY-2012 23:47 | 0525A050.d | 1 | UU52D | | | | |

Maintenance tasks in StarLIMS

R 05/29/12

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd5.i/20120523.b/0525-1.b

ARI Job No.: UU52 Method: PCB1.m Instrument: ecd5.i Date: 25-MAY-2012

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|------------|----|--|
| 2212 | 0525A045.d | UU52MBS1 | UU52MBS1 | 1 | NO MANUAL INTEGRATION |
| 2231 | 0525A046.d | UU52LCSS1 | UU52LCSS1 | 1 | NO MANUAL INTEGRATION |
| 2250 | 0525A047.d | UU52A | MS001-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 2309 | 0525A048.d | UU52B | MS101-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 2328 | 0525A049.d | UU52C | MS002-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 2347 | 0525A050.d | UU52D | MS003-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0006 | 0525A051.d | UU52E | MS004-SS-1 | 1 | Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0025 | 0525A052.d | UU52F | MS005-SS-1 | 1 | Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, |
| 0044 | 0525A053.d | UU52G | MS006-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0141 | 0525A056.d | UU52H | MS007-SS-1 | 1 | Aroclor-1016, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, |
| 0200 | 0525A057.d | UU52I | MS008-SS-1 | 1 | Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0219 | 0525A058.d | UU52J | MS009-SS-1 | 1 | Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0238 | 0525A059.d | UU52JMS | MS009-SS-1 | 1 | Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |
| 0257 | 0525A060.d | UU52JMSD | MS009-SS-1 | 1 | Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-HBBP, Decachlorobiphenyl, |

UU52: 01:50:00

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A043.d
Data file 2: 20120523.b/0525-2.b/0525A043.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 25-MAY-2012 21:34
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|--------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.610 | 0.001 | 47560282 | 4.611 | 0.000 | 28489926 | 17.1 | 17.2 | 1.1 | Tetrachloro-m-xylene |
| 12.991 | 0.000 | 59737700 | 13.364 | -0.001 | 21596766 | 18.5 | 19.2 | 3.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 42.7 | 43.1 |
| Decachlorobiphenyl | 46.3 | 47.9 |

205/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 173442054 | 12.5 |
| Hexabromobiphenyl | 248602423 | 210335776 | -15.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 117403542 | 6.1 |
| Hexabromobiphenyl | 108855531 | 87153825 | -19.9 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|--------|-------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 8.357 | 0.000 | 33517964 | 210.5 | 1 | 8.466 | 0.000 | 11029916 | 214.0 | |
| Aroclor-1254 | 2 | 8.728 | 0.000 | 22059705 | 215.3 | 2 | 8.639 | 0.000 | 14028779 | 214.1 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 43934862 | 222.1 | 3 | 9.160 | 0.000 | 10691822 | 213.6 | |
| Aroclor-1254 | 4 | 9.213 | 0.000 | 48034450 | 225.5 | 4 | 9.310 | 0.000 | 23659587 | 213.7 | |
| Aroclor-1254 | 5 | 9.574 | 0.000 | 29882185 | 225.5 | 5 | 10.093 | 0.000 | 13512922 | 208.2 | |
| Total Col1Ave (5 peaks): | | | | 219.8 | | Total Col2Ave (5 peaks): | | | | 212.7 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 218.3 | | Corrected Ave (4 peaks): | | | | 212.4 | RPD = 3 |

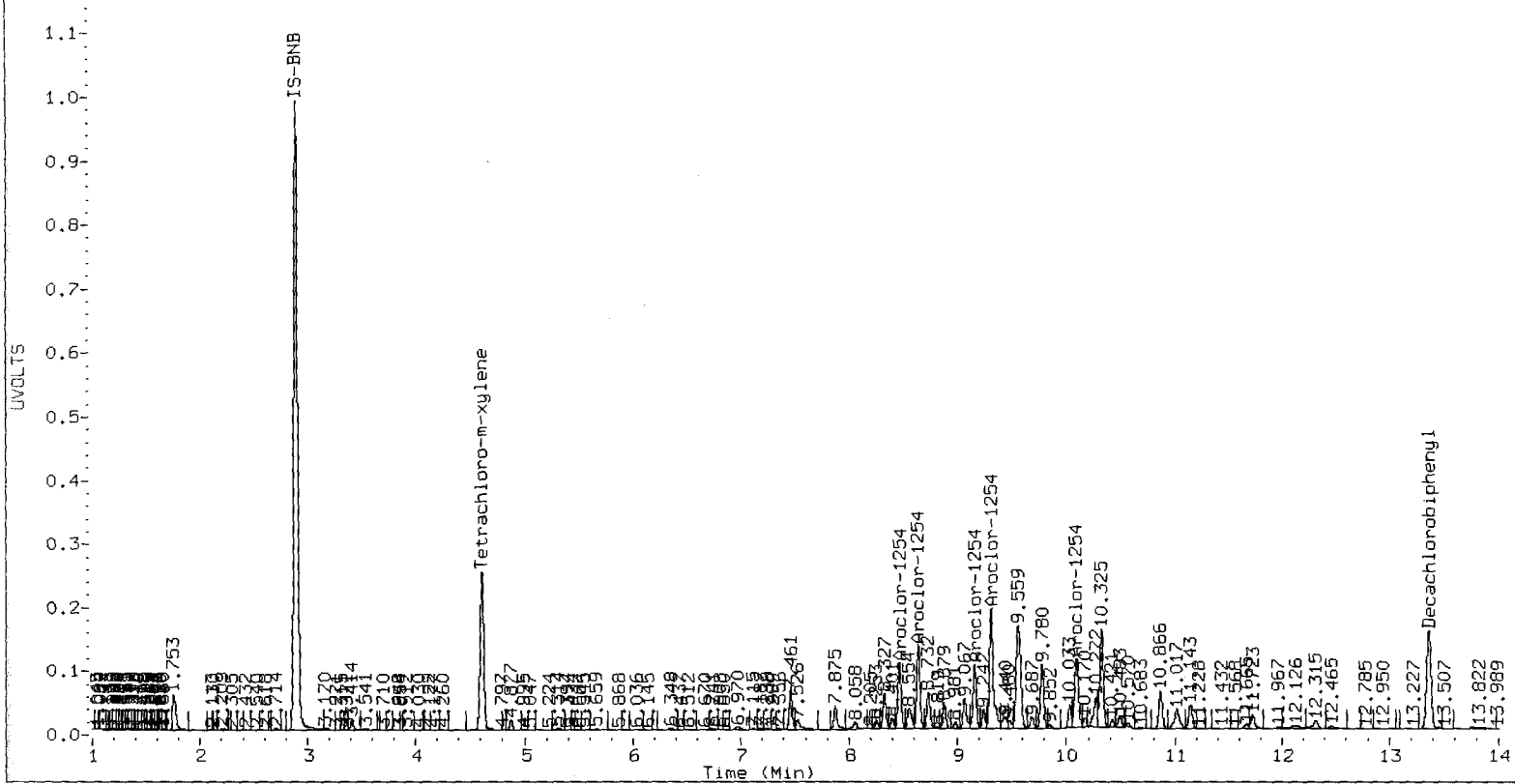
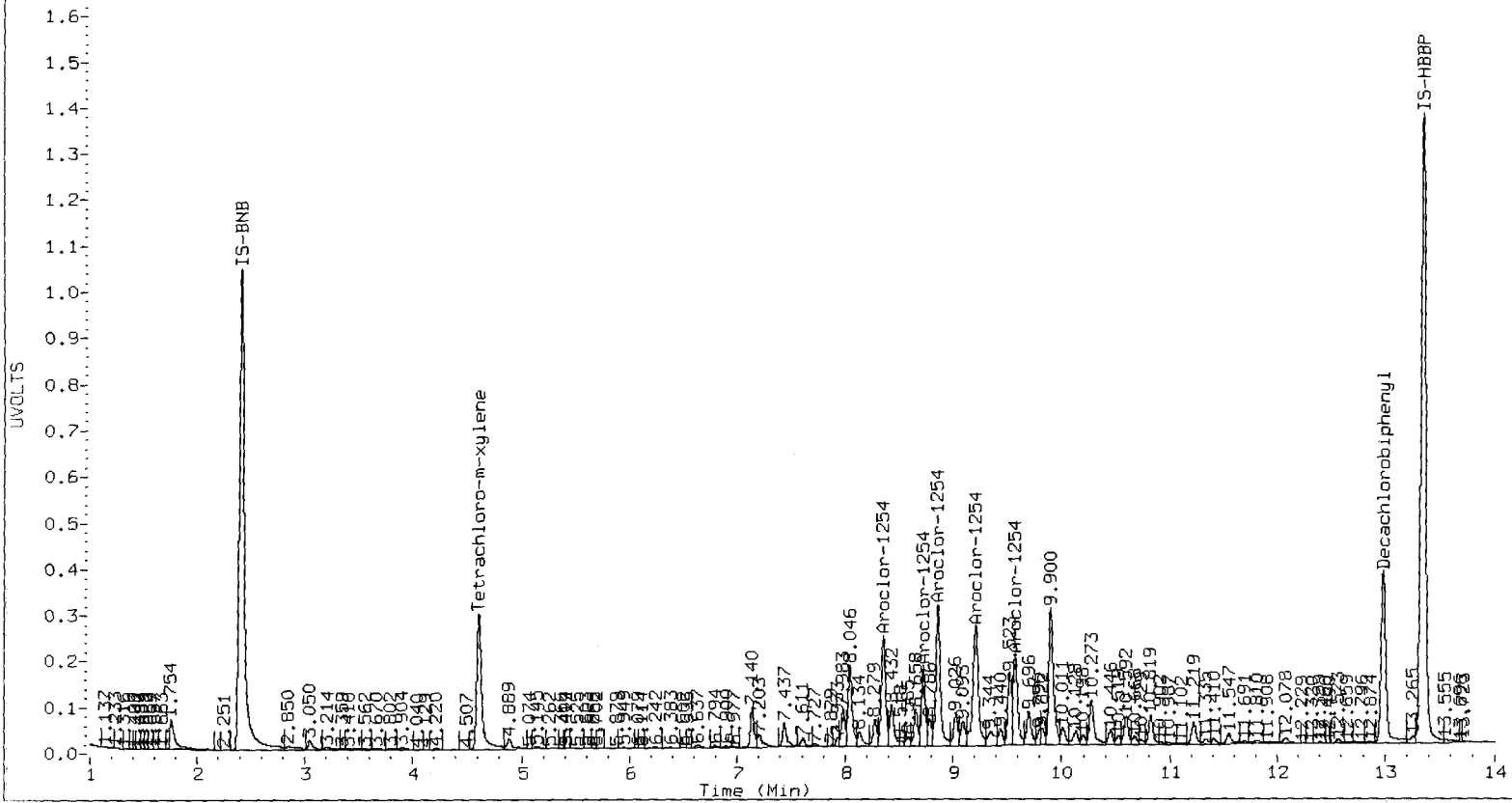
Total PCB Area Col1 (4.710 - 12.891) = 496031674

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 222789028

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A044.d
Data file 2: 20120523.b/0525-2.b/0525A044.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 25-MAY-2012 21:53
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|--------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.611 | 0.001 | 59474973 | 4.612 | 0.001 | 37391819 | 20.2 | 20.5 | 1.6 | Tetrachloro-m-xylene |
| 12.991 | 0.000 | 67515613 | 13.364 | -0.002 | 24542134 | 19.0 | 19.7 | 3.9 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.5 | 51.3 |
| Decachlorobiphenyl | 47.4 | 49.3 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 183205555 | 18.8 |
| Hexabromobiphenyl | 248602423 | 232118987 | -6.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 129531011 | 17.1 |
| Hexabromobiphenyl | 108855531 | 96406184 | -11.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|-------|-------|----------|--------|---------|
| Aroclor-1016 | 1 | 6.242 | 0.001 | 19843471 | 259.6 | 1 | 6.348 | 0.001 | 16429459 | 243.0 | |
| Aroclor-1016 | 2 | 6.643 | 0.001 | 64421214 | 258.6 | 2 | 6.974 | 0.001 | 38135939 | 248.5 | |
| Aroclor-1016 | 3 | 6.791 | 0.001 | 27005130 | 274.8 | 3 | 7.356 | 0.000 | 10212172 | 257.9 | |
| Aroclor-1016 | 4 | 6.901 | 0.001 | 20695484 | 267.4 | 4 | 7.463 | 0.000 | 10931447 | 248.3 | |
| Total CollAve (4 peaks): | | | | 265.1 | | Total Col2Ave (4 peaks): | | | | 249.4 | RPD = 6 |
| Corrected Ave (3 peaks): | | | | 261.8 | | Corrected Ave (3 peaks): | | | | 246.6 | RPD = 6 |

| | | | | | | | | | | | |
|--------------------------|---|--------|--------|----------|-------|--------------------------|--------|--------|----------|-------|---------|
| Aroclor-1260 | 1 | 10.446 | 0.000 | 36407019 | 289.1 | 1 | 10.421 | -0.001 | 15673058 | 283.5 | |
| Aroclor-1260 | 2 | 10.820 | -0.001 | 83356641 | 266.7 | 2 | 10.871 | -0.001 | 19650518 | 286.2 | |
| Aroclor-1260 | 3 | 11.220 | -0.001 | 47314377 | 272.4 | 3 | 11.144 | -0.001 | 39073387 | 280.3 | |
| Aroclor-1260 | 4 | 11.336 | -0.001 | 20384869 | 273.3 | 4 | 11.665 | -0.001 | 10643867 | 261.5 | |
| Aroclor-1260 | 5 | 11.410 | -0.001 | 24977018 | 280.5 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 276.4 | | Total Col2Ave (4 peaks): | | | | 277.9 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 273.2 | | Corrected Ave (3 peaks): | | | | 275.1 | RPD = 1 |

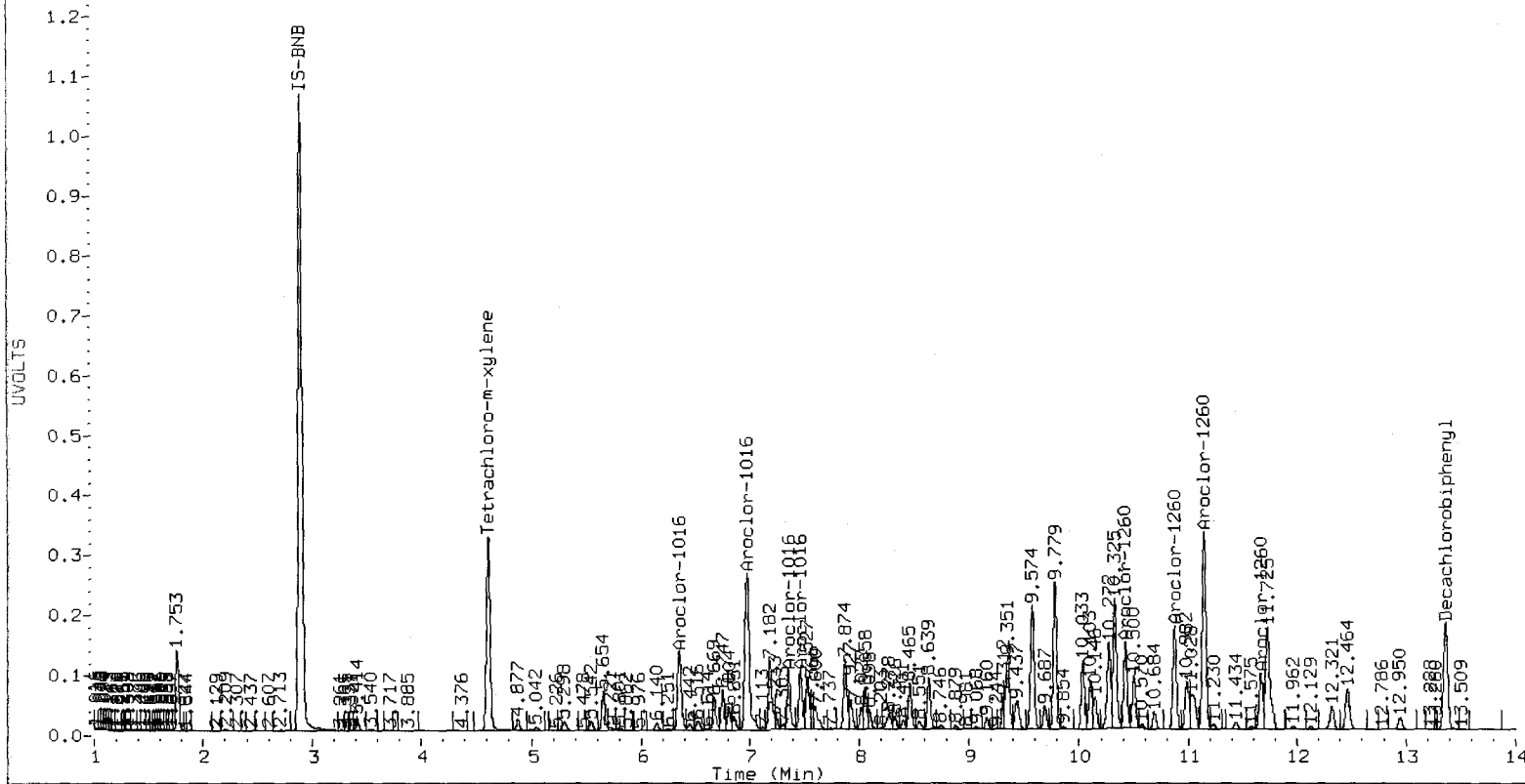
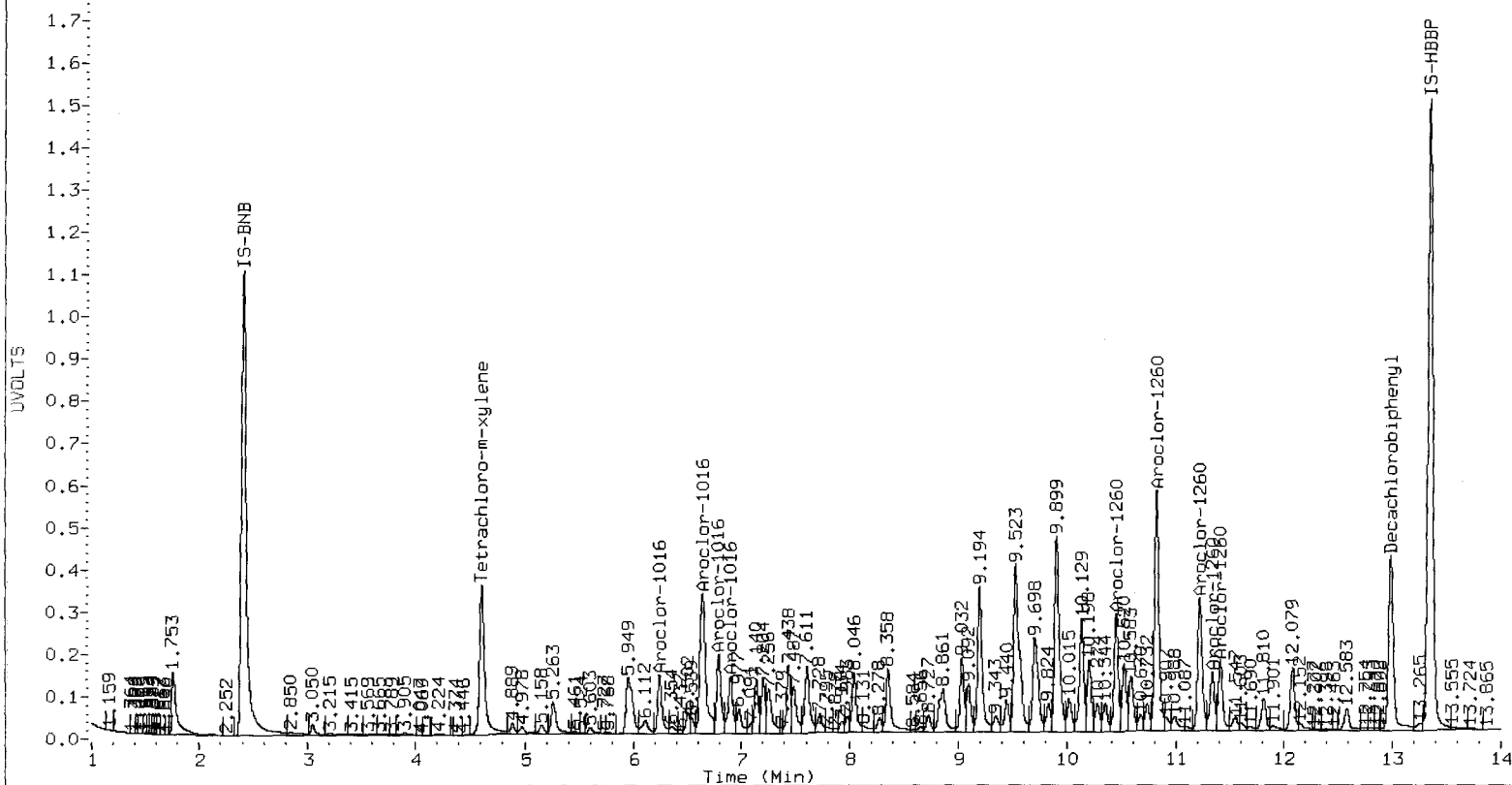
Total PCB Area Col1 (4.710 - 12.891) = 1182160783

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 520653967

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A045.d
Data file 2: 20120523.b/0525-2.b/0525A045.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52MBS1
Client ID:
Injection Date: 25-MAY-2012 22:12
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|-----------|----------|--------|----------|--------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.609 | -0.001 | 71093015 | 4.610 | -0.001 | 44020367 | 29.1 | 29.0 | 0.4 | Tetrachloro-m-xylene |
| 12.991 | 0.001 | 107986947 | 13.364 | -0.001 | 40729935 | 34.5 | 38.3 | 10.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 72.8 | 72.5 |
| Decachlorobiphenyl | 86.3 | 95.6 |

4/25/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 151934719 | -1.5 |
| Hexabromobiphenyl | 248602423 | 203842677 | -18.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 107842922 | -2.5 |
| Hexabromobiphenyl | 108855531 | 82401791 | -24.3 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|----------|--------|--------|---------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.240 | -0.001 | 613992 | 9.7 | 1 | 6.345 | -0.002 | 355300 | 6.3 | |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 1328086 | 6.4 | 2 | 6.962 | -0.012 | 804293 | 6.3 | |
| Aroclor-1016 | 3 | 6.792 | 0.002 | 606484 | 7.4 | 3 | 7.359 | 0.002 | 277378 | 8.4 | |
| Aroclor-1016 | 4 | 6.897 | -0.004 | 947501 | 14.8 | 4 | 7.461 | -0.002 | 242472 | 6.6 | |
| Total CollAve (4 peaks): | | | | 9.6 | Total Col2Ave (4 peaks): | | | | 6.9 | RPD = 32 | |
| Corrected Ave (3 peaks): | | | | 7.9 | Corrected Ave (3 peaks): | | | | 6.4 | RPD = 20 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.889 | 0.005 | 6383971 | 560.5 | 1 | 5.313 | 0.023 | 688681 | 40.5 | |
| Aroclor-1221 | 2 | 5.143 | -0.010 | 1788549 | 97.5 | 2 | 5.566 | 0.030 | 192823 | 19.2 | |
| Aroclor-1221 | 3 | 5.255 | -0.003 | 618841 | 10.3 | 3 | 5.660 | 0.011 | 243383 | 7.7 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.709 | -0.008 | 18391 | 3.2 | |
| Total CollAve (3 peaks): | | | | 222.8 | Total Col2Ave (4 peaks): | | | | 17.7 | RPD = 171* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 10.1 | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.240 | 0.002 | 613992 | 23.2 | 1 | 6.345 | -0.001 | 355300 | 13.7 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 1328086 | 15.1 | 2 | 6.962 | -0.009 | 804293 | 14.8 | |
| Aroclor-1232 | 3 | 6.792 | 0.004 | 606484 | 17.0 | 3 | 7.182 | 0.002 | 177458 | 9.7 | |
| Aroclor-1232 | 4 | 7.984 | 0.004 | 567488 | 16.5 | 4 | 8.326 | 0.000 | 200183 | 10.0 | |
| Total CollAve (4 peaks): | | | | 18.0 | Total Col2Ave (4 peaks): | | | | 12.0 | RPD = 40 | |
| Corrected Ave (3 peaks): | | | | 16.2 | Corrected Ave (3 peaks): | | | | 11.1 | RPD = 37 | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.240 | -0.002 | 613992 | 12.8 | 1 | 6.345 | -0.003 | 355300 | 8.1 | |
| Aroclor-1242 | 2 | 6.642 | 0.000 | 1328086 | 8.3 | 2 | 6.962 | -0.013 | 804293 | 8.0 | |
| Aroclor-1242 | 3 | 6.792 | 0.001 | 606484 | 9.5 | 3 | 7.182 | -0.001 | 177458 | 4.4 | |
| Aroclor-1242 | 4 | 7.984 | 0.001 | 567488 | 9.6 | 4 | 8.326 | -0.001 | 200183 | 5.7 | |
| Total CollAve (4 peaks): | | | | 10.1 | Total Col2Ave (4 peaks): | | | | 6.5 | RPD = 42* | |
| Corrected Ave (3 peaks): | | | | 9.1 | Corrected Ave (3 peaks): | | | | 6.0 | RPD = 41* | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.642 | 0.002 | 1328086 | 12.5 | 1 | 6.962 | -0.009 | 804293 | 12.4 | |
| Aroclor-1248 | 2 | 7.419 | -0.019 | 2593668 | 32.2 | 2 | 7.905 | 0.030 | 2690437 | 51.9 | |
| Aroclor-1248 | 3 | 7.984 | 0.000 | 567488 | 5.5 | 3 | 8.326 | -0.001 | 200183 | 3.2 | |
| Aroclor-1248 | 4 | 8.262 | -0.012 | 1871729 | 18.0 | 4 | 8.694 | -0.054 | 641302 | 9.1 | |
| Total CollAve (4 peaks): | | | | 17.0 | Total Col2Ave (4 peaks): | | | | 19.1 | RPD = 12 | |
| Corrected Ave (3 peaks): | | | | 12.0 | Corrected Ave (3 peaks): | | | | 8.2 | RPD = 37 | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.358 | 0.002 | 1053414 | 7.6 | 1 | 8.467 | 0.000 | 204446 | 4.3 | |
| Aroclor-1254 | 2 | 8.750 | 0.023 | 1056912 | 11.8 | 2 | 8.638 | -0.001 | 173161 | 2.9 | |
| Aroclor-1254 | 3 | 8.873 | 0.009 | 1549501 | 8.9 | 3 | 9.178 | 0.018 | 972434 | 21.1 | |
| Aroclor-1254 | 4 | 9.134 | -0.079 | 10003408 | 53.6 | 4 | 9.310 | 0.000 | 144867 | 1.4 | |
| Aroclor-1254 | 5 | 9.566 | -0.008 | 1222672 | 10.5 | 5 | 10.099 | 0.006 | 87527 | 1.5 | |
| Total CollAve (5 peaks): | | | | 18.5 | Total Col2Ave (5 peaks): | | | | 6.2 | RPD = 99* | |
| Corrected Ave (4 peaks): | | | | 9.7 | Corrected Ave (4 peaks): | | | | 2.5 | RPD = 117* | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.443 | -0.004 | 1343577 | 12.1 | 1 | 10.423 | 0.001 | 61921 | 1.3 | |
| Aroclor-1260 | 2 | 10.859 | 0.038 | 3978519 | 14.5 | 2 | 10.871 | -0.001 | 138732 | 2.4 | |
| Aroclor-1260 | 3 | 11.218 | -0.003 | 1184081 | 7.8 | 3 | 11.143 | -0.001 | 136171 | 1.1 | |
| Aroclor-1260 | 4 | 11.325 | -0.012 | 1163099 | 17.8 | 4 | 11.616 | -0.050 | 532186 | 15.3 | |
| Aroclor-1260 | 5 | 11.408 | -0.002 | 1023462 | 13.1 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 13.1 | Total Col2Ave (4 peaks): | | | | 5.0 | RPD = 89* | |
| Corrected Ave (4 peaks): | | | | 11.9 | Corrected Ave (3 peaks): | | | | 1.6 | RPD = 152* | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.131 | 0.003 | 1882809 | 11.6 | 1 | 10.423 | 0.004 | 61921 | 0.8 | |
| Aroclor-1262 | 2 | 10.443 | -0.001 | 1343577 | 10.8 | 2 | 10.871 | 0.001 | 138732 | 2.1 | |
| Aroclor-1262 | 3 | 10.859 | 0.040 | 3978519 | 11.7 | 3 | 11.143 | 0.001 | 136171 | 0.9 | |
| Aroclor-1262 | 4 | 11.325 | -0.009 | 1163099 | 9.4 | 4 | 11.616 | -0.048 | 532186 | 8.8 | |
| Aroclor-1262 | 5 | 11.408 | 0.001 | 1023462 | 7.3 | 5 | 12.503 | 0.040 | 175942 | 3.1 | |
| Total CollAve (5 peaks): | | | | 10.2 | Total Col2Ave (5 peaks): | | | | 3.1 | RPD = 106* | |
| Corrected Ave (4 peaks): | | | | 9.8 | Corrected Ave (4 peaks): | | | | 1.7 | RPD = 140* | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.325 | -0.011 | 1163099 | 3.4 | 1 | 11.616 | -0.048 | 532186 | 3.4 | |
| Aroclor-1268 | 2 | 11.408 | 0.001 | 1023462 | 2.9 | 2 | 11.726 | -0.004 | 119608 | 0.8 | |

| | | | | | | | | | |
|--------------------------|--------|--------|---------|--------------------------|---|--------|--------|-------|------------|
| Aroclor-1268 3 | 11.747 | -0.046 | 1675961 | 5.8 | 3 | 12.121 | -0.007 | 77915 | 0.6 |
| Aroclor-1268 4 | 12.579 | -0.006 | 1205955 | 1.4 | 4 | 12.952 | 0.003 | 90472 | 0.3 |
| Total Col1Ave (4 peaks): | | | 3.4 | Total Col2Ave (4 peaks): | | | | 1.3 | RPD = 90* |
| Corrected Ave (3 peaks): | | | 2.6 | Corrected Ave (3 peaks): | | | | 0.6 | RPD = 128* |

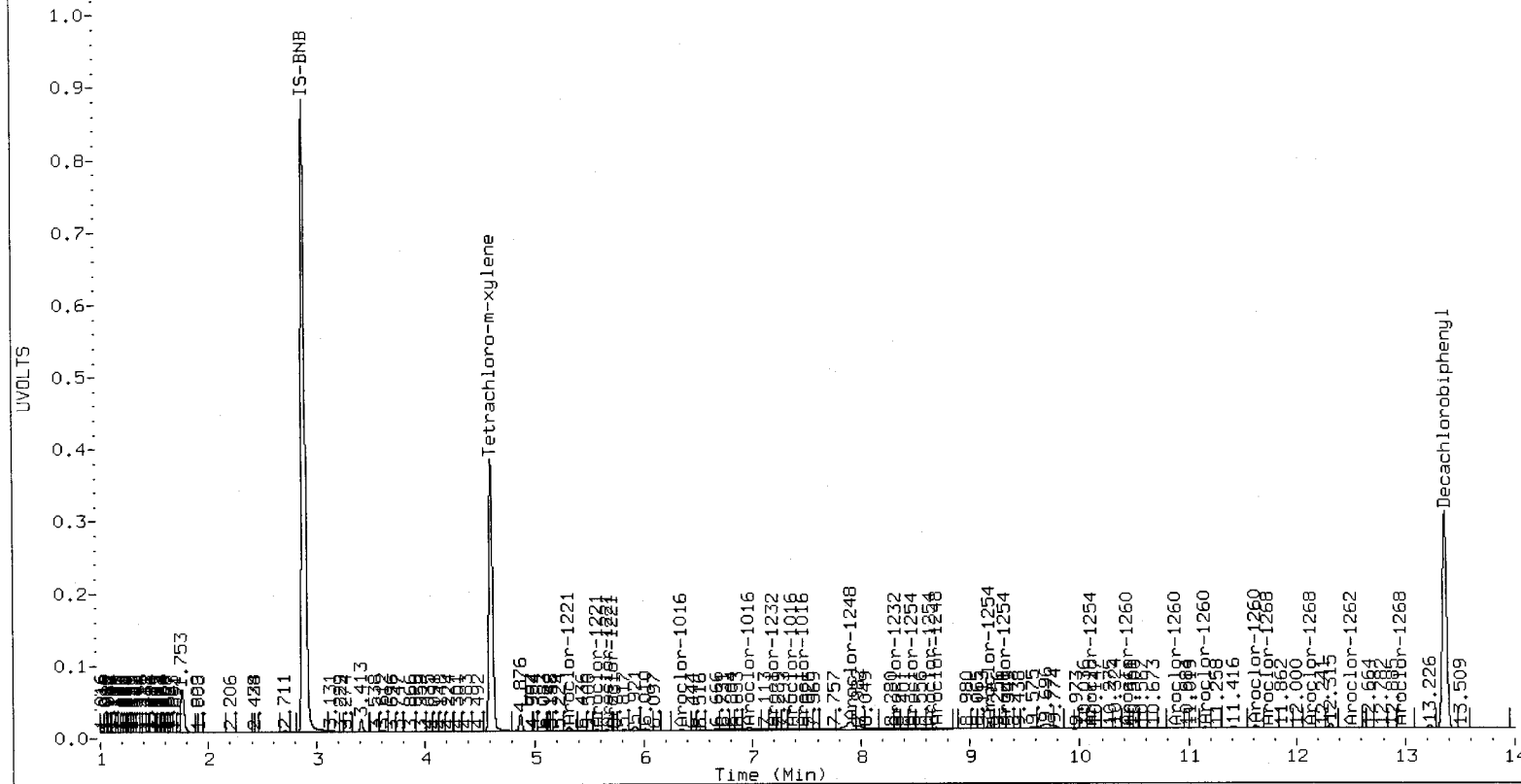
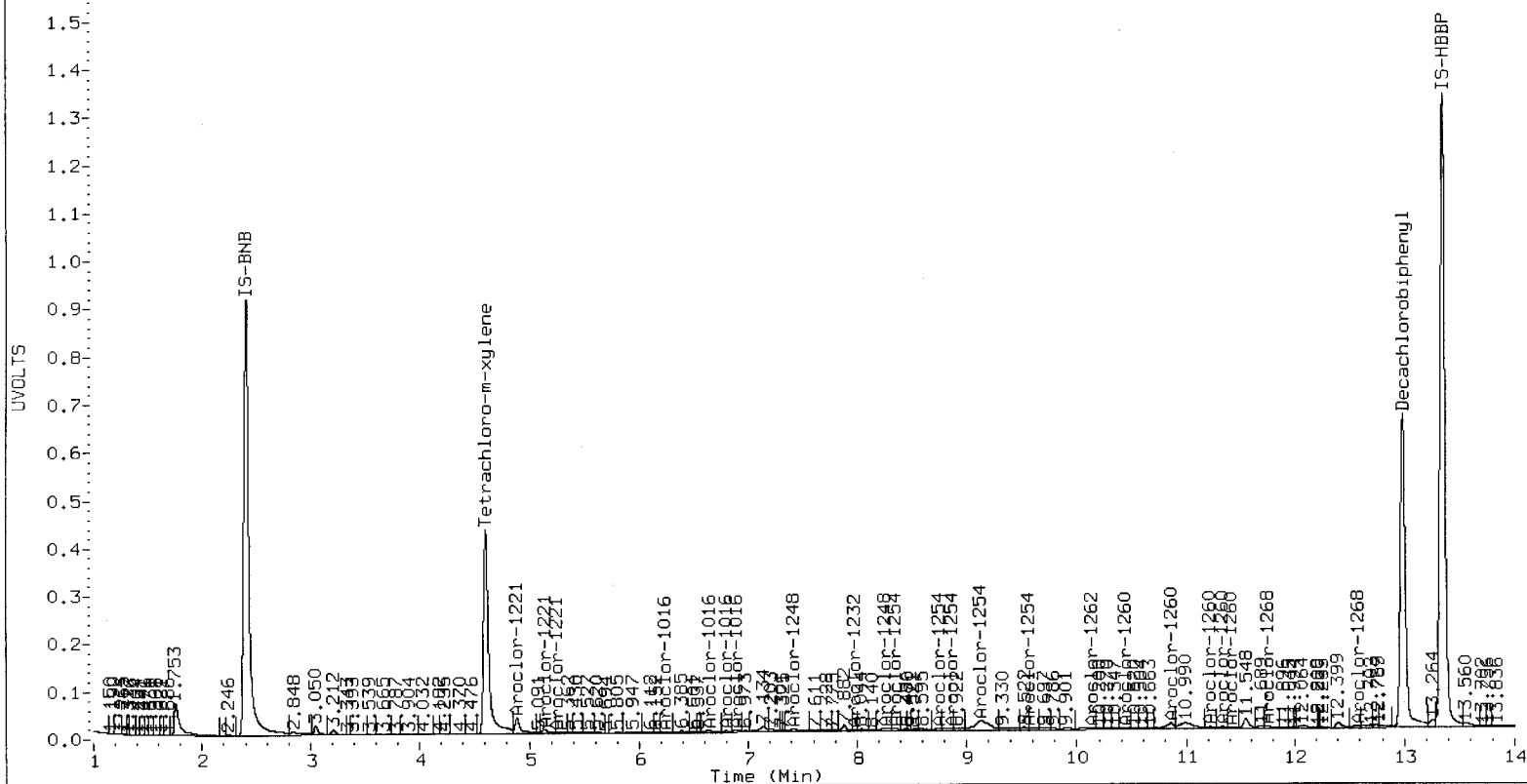
Total PCB Area Col1 (4.710 - 12.891) = 101022448 Col1 Total PCB = 0.1 ppm*

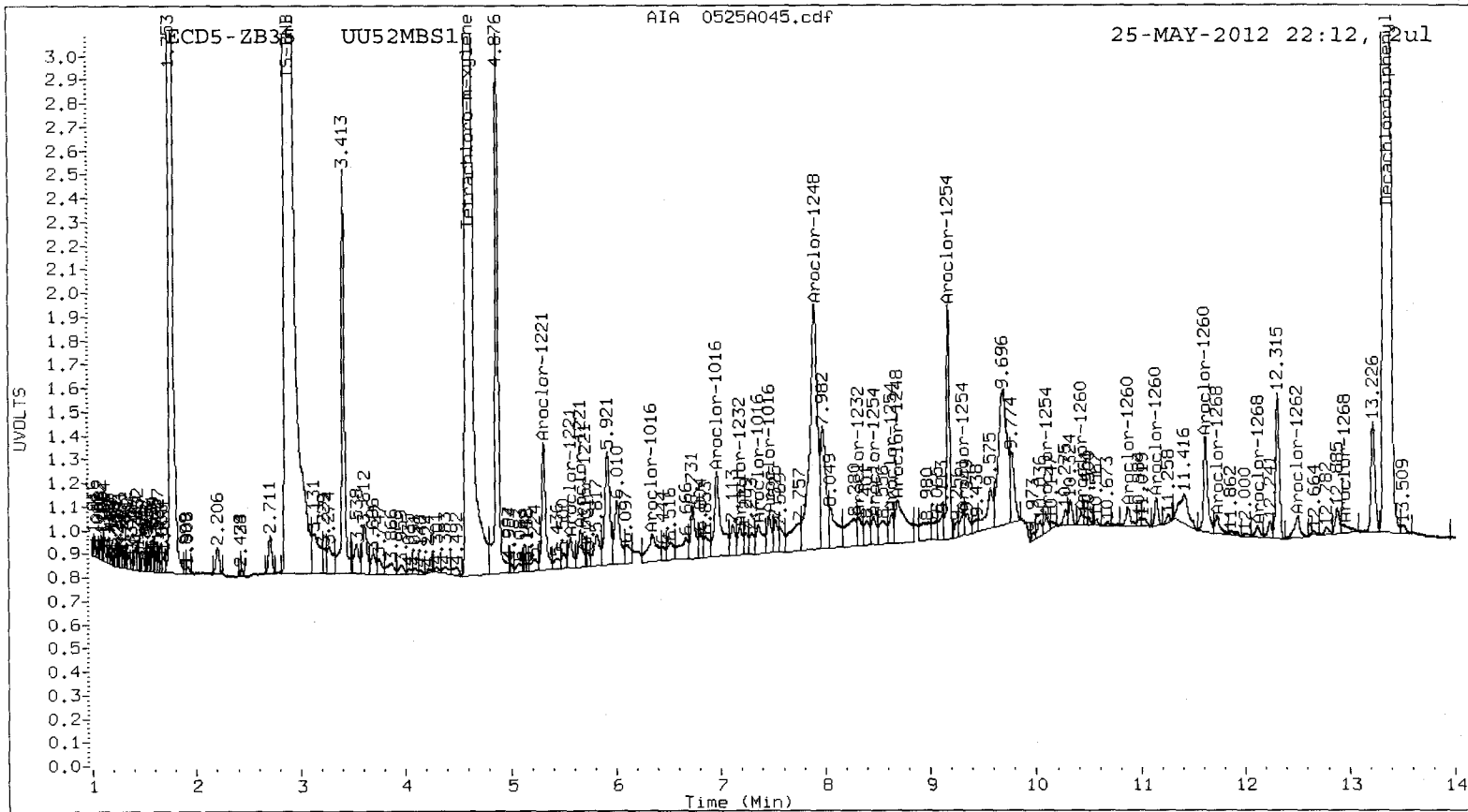
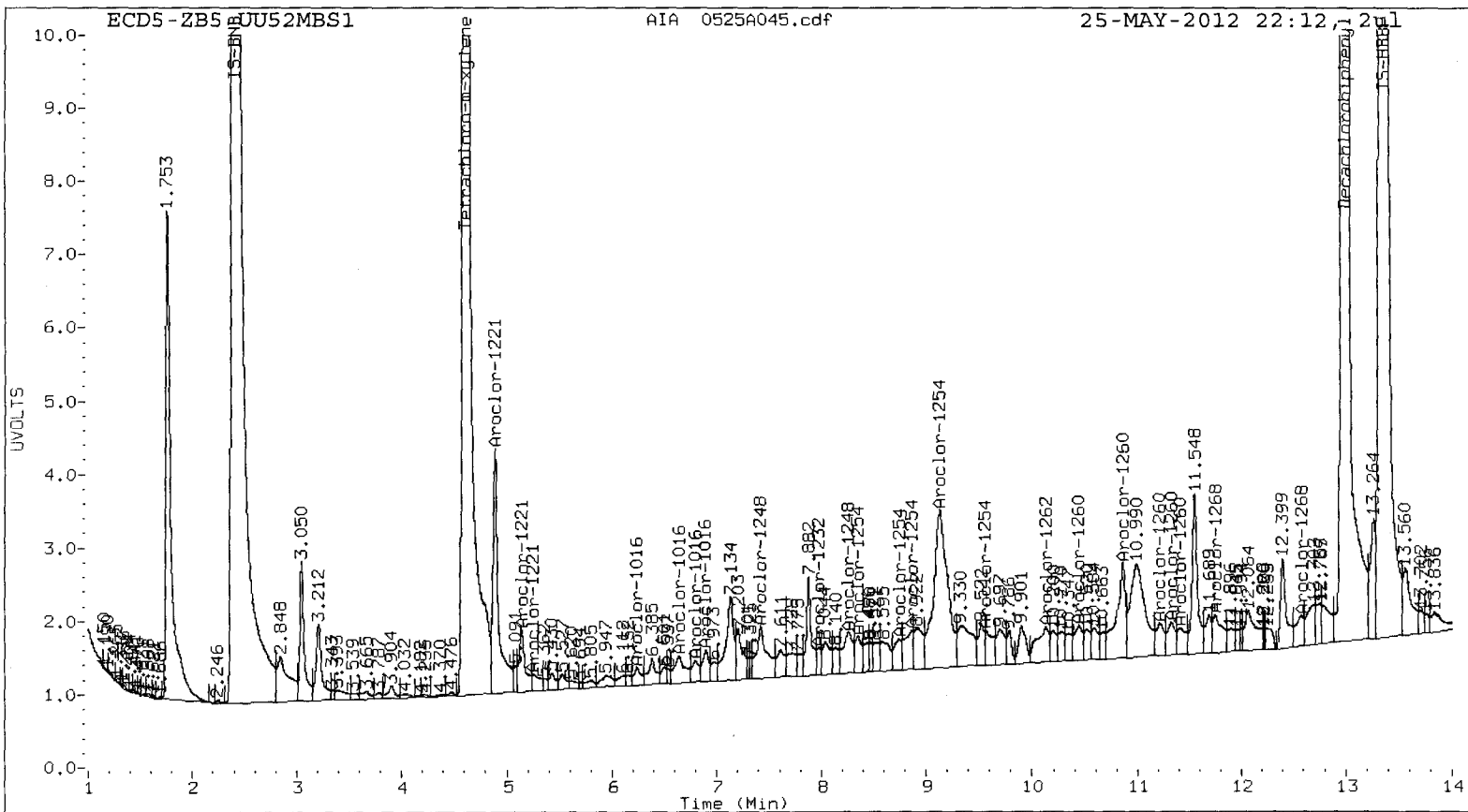
Total PCB Area Col2 (4.711 - 13.265) = 24687836 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01589





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A046.d
Data file 2: 20120523.b/0525-2.b/0525A046.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52LCSS1
Client ID:
Injection Date: 25-MAY-2012 22:31
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-----------------|----------|-----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.609 | 0.000 73963619 | 4.610 | -0.001 46990034 | 27.7 | 28.2 | 1.9 | Tetrachloro-m-xylene |
| 12.992 | 0.002 116208307 | 13.365 | -0.001 43932409 | 33.3 | 37.3 | 11.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 69.2 | 70.5 |
| Decachlorobiphenyl | 83.1 | 93.2 |

Handwritten: 05/25/12
05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 166230424 | 7.8 |
| Hexabromobiphenyl | 248602423 | 227742315 | -8.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 118374711 | 7.0 |
| Hexabromobiphenyl | 108855531 | 91190750 | -16.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|-----------|----------|--------------------------|--------|--------|----------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.242 | 0.000 | 25561909 | 368.6 | 1 | 6.347 | 0.000 | 21514375 | 348.2 | |
| Aroclor-1016 | 2 | 6.642 | 0.001 | 85553664 | 378.4 | 2 | 6.974 | 0.001 | 51846539 | 369.7 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 36091929 | 404.8 | 3 | 7.356 | 0.000 | 14302577 | 395.3 | |
| Aroclor-1016 | 4 | 6.900 | 0.000 | 28277349 | 402.6 | 4 | 7.463 | 0.000 | 15151349 | 376.6 | |
| Total CollAve (4 peaks): | | | | 388.6 | | Total Col2Ave (4 peaks): | | | | 372.5 | RPD = 4 |
| Corrected Ave (3 peaks): | | | | 383.2 | | Corrected Ave (3 peaks): | | | | 364.8 | RPD = 5 |
| Aroclor-1221 | 1 | 4.889 | 0.005 | 5027261 | 403.4 | 1 | 5.297 | 0.008 | 2461749 | 132.0 | |
| Aroclor-1221 | 2 | 5.157 | 0.004 | 4798159 | 239.2 | 2 | 5.541 | 0.005 | 2060427 | 186.9 | |
| Aroclor-1221 | 3 | 5.262 | 0.004 | 17168551 | 261.2 | 3 | 5.653 | 0.004 | 8980994 | 260.5 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.720 | 0.003 | 754515 | 119.5 | |
| Total CollAve (3 peaks): | | | | 301.3 | | Total Col2Ave (4 peaks): | | | | 174.7 | RPD = 53* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave (3 peaks): | | | | 146.1 | |
| Aroclor-1232 | 1 | 6.242 | 0.003 | 25561909 | 882.6 | 1 | 6.347 | 0.002 | 21514375 | 754.6 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 85553664 | 888.1 | 2 | 6.974 | 0.003 | 51846539 | 868.6 | |
| Aroclor-1232 | 3 | 6.790 | 0.003 | 36091929 | 923.8 | 3 | 7.182 | 0.003 | 18301755 | 908.9 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 6661331 | 177.5 | 4 | 8.326 | 0.001 | 3410580 | 154.5 | |
| Total CollAve (4 peaks): | | | | 718.0 | | Total Col2Ave (4 peaks): | | | | 671.6 | RPD = 7 |
| Corrected Ave (3 peaks): | | | | 649.4 | | Corrected Ave (3 peaks): | | | | 592.6 | RPD = 9 |
| Aroclor-1242 | 1 | 6.242 | -0.001 | 25561909 | 488.5 | 1 | 6.347 | 0.000 | 21514375 | 445.5 | |
| Aroclor-1242 | 2 | 6.642 | 0.000 | 85553664 | 490.4 | 2 | 6.974 | 0.000 | 51846539 | 472.7 | |
| Aroclor-1242 | 3 | 6.790 | 0.000 | 36091929 | 518.4 | 3 | 7.182 | 0.000 | 18301755 | 410.7 | |
| Aroclor-1242 | 4 | 7.983 | 0.000 | 6661331 | 102.7 | 4 | 8.326 | -0.001 | 3410580 | 88.0 | |
| Total CollAve (4 peaks): | | | | 400.0 | | Total Col2Ave (4 peaks): | | | | 354.2 | RPD = 12 |
| Corrected Ave (3 peaks): | | | | 360.6 | | Corrected Ave (3 peaks): | | | | 314.7 | RPD = 14 |
| Aroclor-1248 | 1 | 6.642 | 0.003 | 85553664 | 733.1 | 1 | 6.974 | 0.003 | 51846539 | 729.4 | |
| Aroclor-1248 | 2 | 7.437 | -0.001 | 28776488 | 326.4 | 2 | 7.874 | -0.001 | 18693736 | 328.3 | |
| Aroclor-1248 | 3 | 7.983 | 0.000 | 6661331 | 59.0 | 3 | 8.326 | -0.001 | 3410580 | 49.8 | |
| Aroclor-1248 | 4 | 8.278 | 0.004 | 7685721 | 67.4 | 4 | 8.747 | -0.001 | 1847598 | 23.9 | |
| Total CollAve (4 peaks): | | | | 296.5 | | Total Col2Ave (4 peaks): | | | | 282.9 | RPD = 5 |
| Corrected Ave (3 peaks): | | | | 150.9 | | Corrected Ave (3 peaks): | | | | 134.0 | RPD = 12 |
| Aroclor-1254 | 1 | 8.358 | 0.002 | 35148763 | 230.3 | 1 | 8.466 | 0.000 | 11845932 | 227.9 | |
| Aroclor-1254 | 2 | 8.727 | 0.000 | 8289883 | 84.4 | 2 | 8.638 | 0.000 | 13725252 | 207.8 | |
| Aroclor-1254 | 3 | 8.862 | -0.002 | 33012981 | 174.1 | 3 | 9.162 | 0.002 | 4228519 | 83.8 | |
| Aroclor-1254 | 4 | 9.195 | -0.018 | 74937710 | 367.0 | 4 | 9.312 | 0.002 | 6708385 | 60.1 | |
| Aroclor-1254 | 5 | 9.524 | -0.050 | 106016233 | 834.7 | 5 | 10.103 | 0.010 | 12864561 | 196.6 | |
| Total CollAve (5 peaks): | | | | 338.1 | | Total Col2Ave (5 peaks): | | | | 155.2 | RPD = 74* |
| Corrected Ave (4 peaks): | | | | 214.0 | | Corrected Ave (4 peaks): | | | | 137.1 | RPD = 44* |
| Aroclor-1260 | 1 | 10.447 | 0.000 | 54846827 | 443.9 | 1 | 10.421 | -0.001 | 23505404 | 449.4 | |
| Aroclor-1260 | 2 | 10.820 | -0.001 | 127016551 | 414.2 | 2 | 10.872 | 0.000 | 29946770 | 461.1 | |
| Aroclor-1260 | 3 | 11.220 | -0.001 | 69979558 | 410.6 | 3 | 11.145 | 0.000 | 60306673 | 457.3 | |
| Aroclor-1260 | 4 | 11.336 | -0.001 | 30328426 | 414.5 | 4 | 11.665 | -0.001 | 17242809 | 447.9 | |
| Aroclor-1260 | 5 | 11.409 | -0.001 | 37557048 | 429.9 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 422.6 | | Total Col2Ave (4 peaks): | | | | 453.9 | RPD = 7 |
| Corrected Ave (4 peaks): | | | | 417.3 | | Corrected Ave (3 peaks): | | | | 451.8 | RPD = 8 |
| Aroclor-1262 | 1 | 10.130 | 0.002 | 55042851 | 303.2 | 1 | 10.421 | 0.002 | 23505404 | 275.2 | |
| Aroclor-1262 | 2 | 10.447 | 0.002 | 54846827 | 395.4 | 2 | 10.872 | 0.002 | 29946770 | 406.5 | |
| Aroclor-1262 | 3 | 10.820 | 0.002 | 127016551 | 335.1 | 3 | 11.145 | 0.002 | 60306673 | 360.5 | |
| Aroclor-1262 | 4 | 11.336 | 0.002 | 30328426 | 218.9 | 4 | 11.665 | 0.001 | 17242809 | 256.2 | |
| Aroclor-1262 | 5 | 11.409 | 0.002 | 37557048 | 238.4 | 5 | 12.464 | 0.001 | 13767013 | 219.7 | |
| Total CollAve (5 peaks): | | | | 298.2 | | Total Col2Ave (5 peaks): | | | | 303.6 | RPD = 2 |
| Corrected Ave (4 peaks): | | | | 273.9 | | Corrected Ave (4 peaks): | | | | 277.9 | RPD = 1 |
| Aroclor-1268 | 1 | 11.336 | 0.000 | 30328426 | 78.2 | 1 | 11.665 | 0.001 | 17242809 | 99.0 | |
| Aroclor-1268 | 2 | 11.409 | 0.002 | 37557048 | 96.3 | 2 | 11.725 | -0.005 | 40425481 | 246.3 | |

| | | | | | | | | | |
|--------------------------|--------|--------|----------|------|---|--------------------------|-------|---------|----------|
| Aroclor-1268 3 | 11.810 | 0.018 | 18972054 | 58.3 | 3 | 12.129 | 0.002 | 1038351 | 7.5 |
| Aroclor-1268 4 | 12.583 | -0.002 | 16291837 | 17.0 | 4 | 12.950 | 0.000 | 4027115 | 10.3 |
| Total Col1Ave (4 peaks): | | | 62.5 | | | Total Col2Ave (4 peaks): | | 90.8 | RPD = 37 |
| Corrected Ave (3 peaks): | | | 51.2 | | | Corrected Ave (3 peaks): | | 39.0 | RPD = 27 |

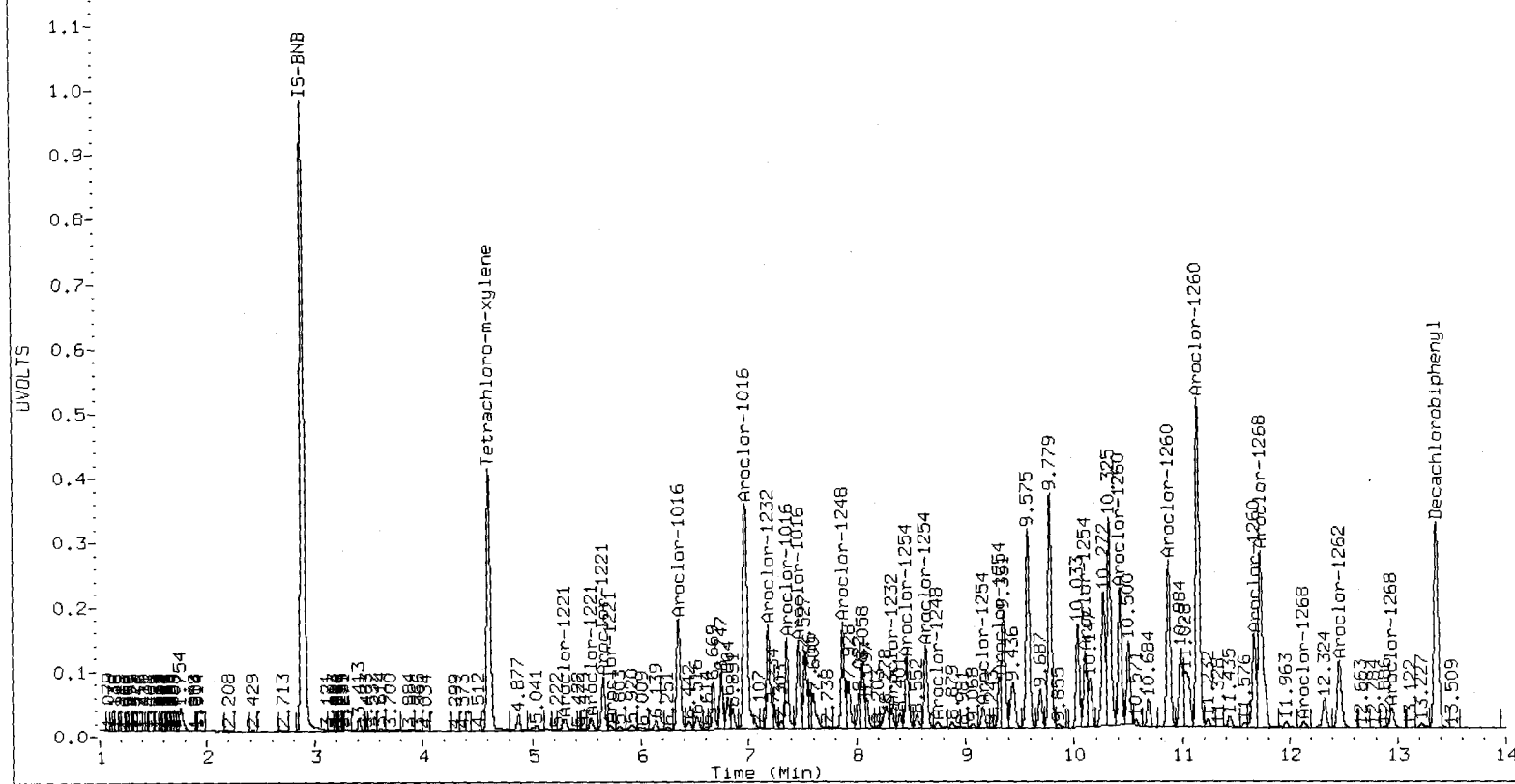
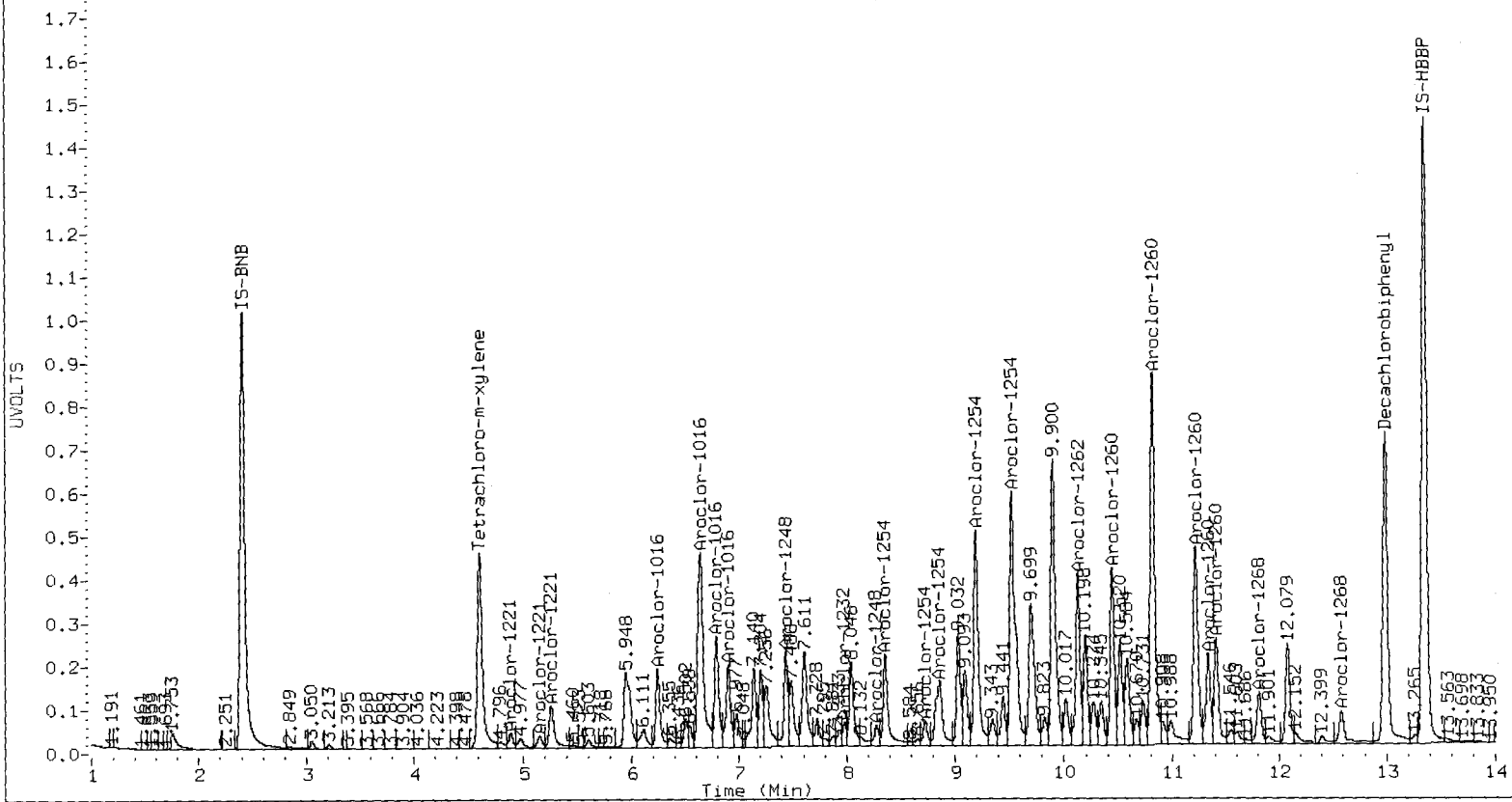
Total PCB Area Col1 (4.710 - 12.891) = 1694845244 Col1 Total PCB = 0.9 ppm*

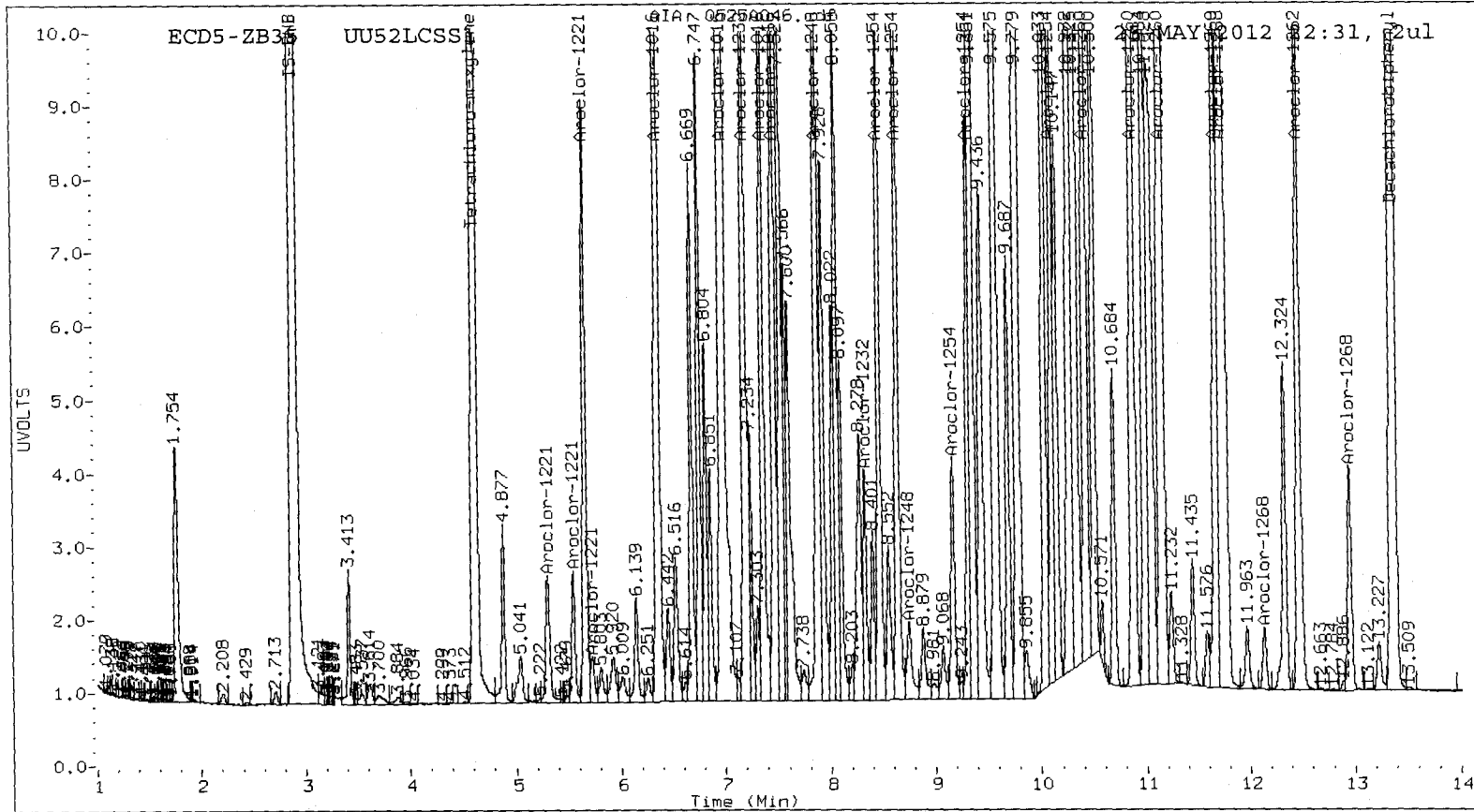
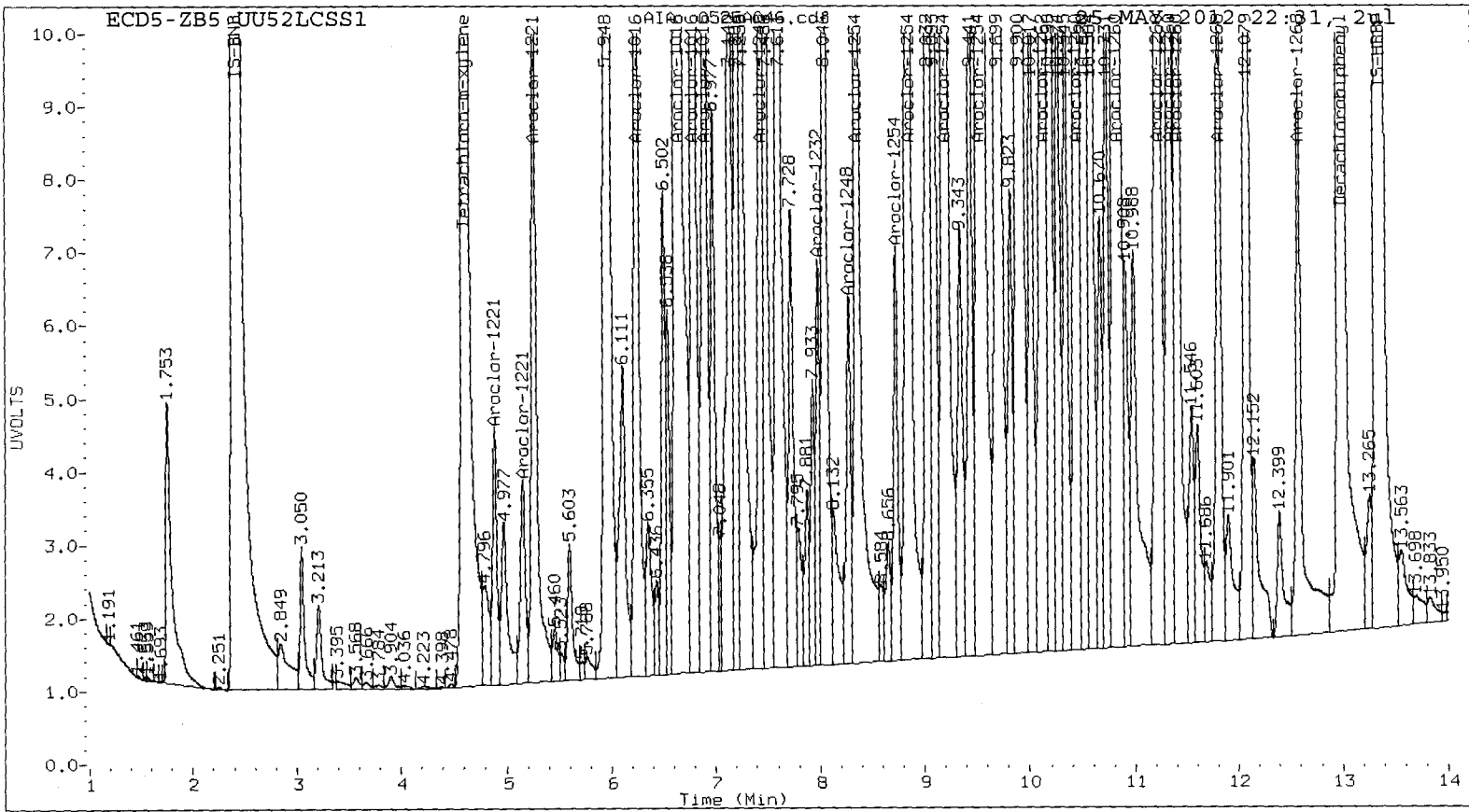
Total PCB Area Col2 (4.711 - 13.265) = 774123985 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01594





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A047.d
Data file 2: 20120523.b/0525-2.b/0525A047.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52A
Client ID:
Injection Date: 25-MAY-2012 22:50
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.611 | 0.001 | 74042418 | 4.613 | 0.002 | 38080976 | 33.6 | 30.3 | 10.2 | Tetrachloro-m-xylene |
| 12.993 | 0.002 | 93935709 | 13.366 | 0.000 | 38457929 | 32.7 | 39.3 | 18.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 84.0 | 75.8 |
| Decachlorobiphenyl | 81.7 | 98.2 |

205/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 137150739 | -11.1 |
| Hexabromobiphenyl | 248602423 | 187389119 | -24.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 89256090 | -19.3 |
| Hexabromobiphenyl | 108855531 | 75797350 | -30.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|--------|--------|----------|--------------------------|-------|--------|--------|----------|-----------|--|
| Aroclor-1016 | 1 | 6.236 | -0.006 | 1428722 | 25.0 | 1 | 6.354 | 0.007 | 2354464 | 50.5 | |
| Aroclor-1016 | 2 | 6.641 | -0.001 | 8345790 | 44.7 | 2 | 6.973 | 0.000 | 3748457 | 35.4 | |
| Aroclor-1016 | 3 | 6.791 | 0.001 | 1999807 | 27.2 | 3 | 7.355 | -0.001 | 1136565 | 41.7 | |
| Aroclor-1016 | 4 | 6.896 | -0.004 | 4175586 | 72.1 | 4 | 7.462 | -0.001 | 2783635 | 91.8 | |
| Total CollAve (4 peaks): | | | | 42.2 | Total Col2Ave (4 peaks): | | | | 54.9 | RPD = 26 | |
| Corrected Ave (3 peaks): | | | | 32.3 | Corrected Ave (3 peaks): | | | | 42.5 | RPD = 27 | |
| Aroclor-1221 | 1 | 4.909 | 0.025 | 12754542 | 1240.6 | 1 | 5.307 | 0.017 | 6824633 | 485.2 | |
| Aroclor-1221 | 2 | 5.146 | -0.007 | 1380581 | 83.4 | 2 | 5.568 | 0.032 | 4462440 | 537.0 | |
| Aroclor-1221 | 3 | 5.277 | 0.019 | 13213915 | 243.7 | 3 | 5.678 | 0.029 | 15427210 | 593.5 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | --- | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 522.6 | Total Col2Ave (3 peaks): | | | | 538.6 | RPD = 3 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1232 | 1 | 6.236 | -0.003 | 1428722 | 59.8 | 1 | 6.354 | 0.009 | 2354464 | 109.5 | |
| Aroclor-1232 | 2 | 6.641 | 0.002 | 8345790 | 105.0 | 2 | 6.973 | 0.002 | 3748457 | 83.3 | |
| Aroclor-1232 | 3 | 6.791 | 0.003 | 1999807 | 62.0 | 3 | 7.187 | 0.008 | 2070608 | 136.4 | |
| Aroclor-1232 | 4 | 7.981 | 0.001 | 8758750 | 282.9 | 4 | 8.327 | 0.002 | 4527370 | 271.9 | |
| Total CollAve (4 peaks): | | | | 127.4 | Total Col2Ave (4 peaks): | | | | 150.3 | RPD = 16 | |
| Corrected Ave (3 peaks): | | | | 75.6 | Corrected Ave (3 peaks): | | | | 109.7 | RPD = 37 | |
| Aroclor-1242 | 1 | 6.236 | -0.007 | 1428722 | 33.1 | 1 | 6.354 | 0.006 | 2354464 | 64.7 | |
| Aroclor-1242 | 2 | 6.641 | -0.001 | 8345790 | 58.0 | 2 | 6.973 | -0.001 | 3748457 | 45.3 | |
| Aroclor-1242 | 3 | 6.791 | 0.000 | 1999807 | 34.8 | 3 | 7.187 | 0.005 | 2070608 | 61.6 | |
| Aroclor-1242 | 4 | 7.981 | -0.002 | 8758750 | 163.7 | 4 | 8.327 | 0.000 | 4527370 | 155.0 | |
| Total CollAve (4 peaks): | | | | 72.4 | Total Col2Ave (4 peaks): | | | | 81.6 | RPD = 12 | |
| Corrected Ave (3 peaks): | | | | 42.0 | Corrected Ave (3 peaks): | | | | 57.2 | RPD = 31 | |
| Aroclor-1248 | 1 | 6.641 | 0.002 | 8345790 | 86.7 | 1 | 6.973 | 0.002 | 3748457 | 69.9 | |
| Aroclor-1248 | 2 | 7.440 | 0.001 | 6993018 | 96.1 | 2 | 7.878 | 0.003 | 7751291 | 180.5 | |
| Aroclor-1248 | 3 | 7.981 | -0.002 | 8758750 | 94.0 | 3 | 8.327 | 0.000 | 4527370 | 87.7 | |
| Aroclor-1248 | 4 | 8.266 | -0.008 | 14762567 | 157.0 | 4 | 8.738 | -0.009 | 10802374 | 185.3 | |
| Total CollAve (4 peaks): | | | | 108.5 | Total Col2Ave (4 peaks): | | | | 130.9 | RPD = 19 | |
| Corrected Ave (3 peaks): | | | | 92.3 | Corrected Ave (3 peaks): | | | | 112.7 | RPD = 20 | |
| Aroclor-1254 | 1 | 8.356 | -0.001 | 16212781 | 128.8 | 1 | 8.466 | -0.001 | 4432475 | 113.1 | |
| Aroclor-1254 | 2 | 8.750 | 0.022 | 42187828 | 520.6 | 2 | 8.640 | 0.001 | 10000067 | 200.8 | |
| Aroclor-1254 | 3 | 8.864 | 0.000 | 51178202 | 327.1 | 3 | 9.172 | 0.012 | 10212259 | 268.3 | |
| Aroclor-1254 | 4 | 9.211 | -0.002 | 34962353 | 207.5 | 4 | 9.310 | 0.001 | 13794240 | 163.9 | |
| Aroclor-1254 | 5 | 9.575 | 0.001 | 23515539 | 224.4 | 5 | 10.091 | -0.002 | 9859662 | 199.8 | |
| Total CollAve (5 peaks): | | | | 281.7 | Total Col2Ave (5 peaks): | | | | 189.2 | RPD = 39 | |
| Corrected Ave (4 peaks): | | | | 222.0 | Corrected Ave (4 peaks): | | | | 169.4 | RPD = 27 | |
| Aroclor-1260 | 1 | 10.446 | -0.001 | 5988426 | 58.9 | 1 | 10.423 | 0.001 | 3151523 | 72.5 | |
| Aroclor-1260 | 2 | 10.821 | 0.000 | 27998152 | 111.0 | 2 | 10.871 | -0.001 | 7729287 | 143.2 | |
| Aroclor-1260 | 3 | 11.223 | 0.002 | 10504147 | 74.9 | 3 | 11.146 | 0.001 | 11566852 | 105.5 | |
| Aroclor-1260 | 4 | 11.335 | -0.002 | 6441746 | 107.0 | 4 | 11.669 | 0.003 | 3405401 | 106.4 | |
| Aroclor-1260 | 5 | 11.407 | -0.004 | 56853224 | 790.9 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 228.5 | Total Col2Ave (4 peaks): | | | | 108.9 | RPD = 73* | |
| Corrected Ave (4 peaks): | | | | 87.9 | Corrected Ave (3 peaks): | | | | 74.8 | RPD = 8 | |
| Aroclor-1262 | 1 | 10.129 | 0.002 | 10441140 | 69.9 | 1 | 10.423 | 0.005 | 3151523 | 44.4 | |
| Aroclor-1262 | 2 | 10.446 | 0.002 | 5988426 | 52.5 | 2 | 10.871 | 0.001 | 7729287 | 126.2 | |
| Aroclor-1262 | 3 | 10.821 | 0.002 | 27998152 | 89.8 | 3 | 11.146 | 0.003 | 11566852 | 83.2 | |
| Aroclor-1262 | 4 | 11.335 | 0.001 | 6441746 | 56.5 | 4 | 11.669 | 0.005 | 3405401 | 60.9 | |
| Aroclor-1262 | 5 | 11.407 | -0.001 | 56853224 | 438.7 | 5 | 12.473 | 0.011 | 4539280 | 87.1 | |
| Total CollAve (5 peaks): | | | | 141.5 | Total Col2Ave (5 peaks): | | | | 80.4 | RPD = 55* | |
| Corrected Ave (4 peaks): | | | | 67.2 | Corrected Ave (4 peaks): | | | | 68.9 | RPD = 3 | |
| Aroclor-1268 | 1 | 11.335 | -0.001 | 6441746 | 20.2 | 1 | 11.669 | 0.005 | 3405401 | 23.5 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 56853224 | 177.2 | 2 | 11.726 | -0.005 | 7874063 | 57.7 | |

| | | | | | | | | | | |
|--------------------------|---|--------|-------|---------|--------------------------|---|--------|--------|---------|-----------|
| Aroclor-1268 | 3 | 11.808 | 0.015 | 5512122 | 20.6 | 3 | 12.132 | 0.005 | 1567311 | 13.7 |
| Aroclor-1268 | 4 | 12.586 | 0.001 | 2957674 | 3.8 | 4 | 12.946 | -0.004 | 4793505 | 14.8 |
| Total Col1Ave (4 peaks): | | | | 55.4 | Total Col2Ave (4 peaks): | | | | 27.4 | RPD = 68* |
| Corrected Ave (3 peaks): | | | | 14.8 | Corrected Ave (3 peaks): | | | | 17.3 | RPD = 16 |

Total PCB Area Col1 (4.710 - 12.891) = 1152991978 Col1 Total PCB = 0.7 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 597221761 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01699

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A048.d
Data file 2: 20120523.b/0525-2.b/0525A048.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52B
Client ID:
Injection Date: 25-MAY-2012 23:09
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.611 | 0.001 77225580 | 4.612 | 0.001 39333257 | 30.9 | 28.6 | 7.6 | Tetrachloro-m-xylene |
| 12.995 | 0.004 92945441 | 13.366 | 0.001 38932189 | 29.7 | 36.6 | 20.8 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 77.2 | 71.5 |
| Decachlorobiphenyl | 74.3 | 91.6 |

2005/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 155679232 | 0.9 |
| Hexabromobiphenyl | 248602423 | 203740008 | -18.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 97771108 | -11.6 |
| Hexabromobiphenyl | 108855531 | 82250498 | -24.4 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|----------|--------|--------|----------|-----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.236 | -0.005 | 1475955 | 22.7 | 1 | 6.352 | 0.005 | 2561170 | 50.2 | |
| Aroclor-1016 | 2 | 6.644 | 0.002 | 8964051 | 42.3 | 2 | 6.974 | 0.000 | 3746484 | 32.3 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 2100989 | 25.2 | 3 | 7.355 | -0.001 | 1194199 | 40.0 | |
| Aroclor-1016 | 4 | 6.899 | -0.001 | 3201228 | 48.7 | 4 | 7.461 | -0.002 | 3005871 | 90.5 | |
| Total CollAve (4 peaks): | | | | 34.7 | Total Col2Ave (4 peaks): | | | | 53.2 | RPD = 42* | |
| Corrected Ave (3 peaks): | | | | 30.1 | Corrected Ave (3 peaks): | | | | 40.8 | RPD = 30 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.910 | 0.026 | 10678651 | 915.1 | 1 | 5.307 | 0.017 | 6632903 | 430.5 | |
| Aroclor-1221 | 2 | 5.148 | -0.005 | 975354 | 51.9 | 2 | 5.568 | 0.032 | 4828001 | 530.4 | |
| Aroclor-1221 | 3 | 5.276 | 0.018 | 7472768 | 121.4 | 3 | 5.678 | 0.029 | 16237507 | 570.3 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 362.8 | Total Col2Ave (3 peaks): | | | | 510.4 | RPD = 34 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.236 | -0.002 | 1475955 | 54.4 | 1 | 6.352 | 0.006 | 2561170 | 108.8 | |
| Aroclor-1232 | 2 | 6.644 | 0.005 | 8964051 | 59.4 | 2 | 6.974 | 0.003 | 3746484 | 76.0 | |
| Aroclor-1232 | 3 | 6.790 | 0.003 | 2100989 | 57.4 | 3 | 7.186 | 0.007 | 1987221 | 119.5 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 9723650 | 276.7 | 4 | 8.326 | 0.001 | 4806891 | 263.6 | |
| Total CollAve (4 peaks): | | | | 122.0 | Total Col2Ave (4 peaks): | | | | 141.9 | RPD = 15 | |
| Corrected Ave (3 peaks): | | | | 70.4 | Corrected Ave (3 peaks): | | | | 101.4 | RPD = 36 | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.236 | -0.006 | 1475955 | 30.1 | 1 | 6.352 | 0.004 | 2561170 | 64.2 | |
| Aroclor-1242 | 2 | 6.644 | 0.001 | 8964051 | 54.9 | 2 | 6.974 | 0.000 | 3746484 | 41.4 | |
| Aroclor-1242 | 3 | 6.790 | 0.000 | 2100989 | 32.2 | 3 | 7.186 | 0.004 | 1987221 | 54.0 | |
| Aroclor-1242 | 4 | 7.983 | 0.000 | 9723650 | 160.1 | 4 | 8.326 | 0.000 | 4806891 | 150.2 | |
| Total CollAve (4 peaks): | | | | 39.3 | Total Col2Ave (4 peaks): | | | | 77.4 | RPD = 11 | |
| Corrected Ave (3 peaks): | | | | 39.1 | Corrected Ave (3 peaks): | | | | 53.2 | RPD = 31 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.644 | 0.004 | 8964051 | 82.0 | 1 | 6.974 | 0.003 | 3746484 | 63.8 | |
| Aroclor-1248 | 2 | 7.438 | -0.001 | 6507394 | 78.8 | 2 | 7.875 | 0.001 | 3198377 | 68.0 | |
| Aroclor-1248 | 3 | 7.983 | 0.000 | 9723650 | 91.9 | 3 | 8.326 | 0.000 | 4806891 | 85.0 | |
| Aroclor-1248 | 4 | 8.267 | -0.007 | 14386370 | 134.8 | 4 | 8.739 | -0.009 | 10903865 | 170.8 | |
| Total CollAve (4 peaks): | | | | 36.9 | Total Col2Ave (4 peaks): | | | | 36.9 | RPD = 0 | |
| Corrected Ave (3 peaks): | | | | 84.3 | Corrected Ave (3 peaks): | | | | 72.3 | RPD = 15 | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.357 | 0.001 | 16824605 | 117.7 | 1 | 8.465 | -0.001 | 4534985 | 105.7 | |
| Aroclor-1254 | 2 | 8.749 | 0.021 | 43189697 | 489.5 | 2 | 8.639 | 0.000 | 9917794 | 181.8 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 47451774 | 267.2 | 3 | 9.173 | 0.013 | 11295347 | 270.9 | |
| Aroclor-1254 | 4 | 9.214 | 0.001 | 33015086 | 172.6 | 4 | 9.309 | -0.001 | 14249793 | 154.5 | |
| Aroclor-1254 | 5 | 9.574 | 0.000 | 22669321 | 190.6 | 5 | 10.091 | -0.001 | 9469872 | 175.2 | |
| Total CollAve (5 peaks): | | | | 243.5 | Total Col2Ave (5 peaks): | | | | 177.6 | RPD = 31 | |
| Corrected Ave (4 peaks): | | | | 187.0 | Corrected Ave (4 peaks): | | | | 154.3 | RPD = 19 | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.446 | -0.001 | 5903125 | 53.4 | 1 | 10.423 | 0.001 | 3163220 | 67.1 | |
| Aroclor-1260 | 2 | 10.822 | 0.001 | 26616250 | 97.0 | 2 | 10.870 | -0.002 | 7229879 | 123.4 | |
| Aroclor-1260 | 3 | 11.224 | 0.003 | 9223675 | 60.5 | 3 | 11.146 | 0.001 | 11073692 | 93.1 | |
| Aroclor-1260 | 4 | 11.334 | -0.003 | 6508488 | 99.4 | 4 | 11.667 | 0.001 | 3310273 | 95.3 | |
| Aroclor-1260 | 5 | 11.409 | -0.002 | 58867057 | 753.2 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 222.7 | Total Col2Ave (4 peaks): | | | | 94.7 | RPD = 77* | |
| Corrected Ave (4 peaks): | | | | 80.6 | Corrected Ave (3 peaks): | | | | 85.2 | RPD = 9 | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.128 | 0.000 | 10274053 | 63.3 | 1 | 10.423 | 0.003 | 3163220 | 41.1 | |
| Aroclor-1262 | 2 | 10.446 | 0.001 | 5903125 | 47.6 | 2 | 10.870 | 0.000 | 7229879 | 108.8 | |
| Aroclor-1262 | 3 | 10.822 | 0.004 | 26616250 | 78.5 | 3 | 11.146 | 0.004 | 11073692 | 73.4 | |
| Aroclor-1262 | 4 | 11.334 | 0.000 | 6508488 | 52.5 | 4 | 11.667 | 0.003 | 3310273 | 54.5 | |
| Aroclor-1262 | 5 | 11.409 | 0.001 | 58867057 | 417.8 | 5 | 12.474 | 0.011 | 4385447 | 77.6 | |
| Total CollAve (5 peaks): | | | | 131.9 | Total Col2Ave (5 peaks): | | | | 71.1 | RPD = 60* | |
| Corrected Ave (4 peaks): | | | | 60.5 | Corrected Ave (4 peaks): | | | | 61.6 | RPD = 2 | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.334 | -0.002 | 6508488 | 18.8 | 1 | 11.667 | 0.003 | 3310273 | 21.1 | |
| Aroclor-1268 | 2 | 11.409 | 0.002 | 58867057 | 168.8 | 2 | 11.727 | -0.004 | 7455194 | 50.4 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|------|---|--------------------------|--------|---------|-----------|
| Aroclor-1268 3 | 11.807 | 0.015 | 7079750 | 24.3 | 3 | 12.129 | 0.001 | 3533980 | 28.4 |
| Aroclor-1268 4 | 12.587 | 0.002 | 3464959 | 4.0 | 4 | 12.946 | -0.003 | 5283461 | 15.0 |
| Total Col1Ave (4 peaks): | | | 54.0 | | | Total Col2Ave (4 peaks): | | 28.7 | RPD = 61* |
| Corrected Ave (3 peaks): | | | 15.7 | | | Corrected Ave (3 peaks): | | 21.5 | RPD = 31 |

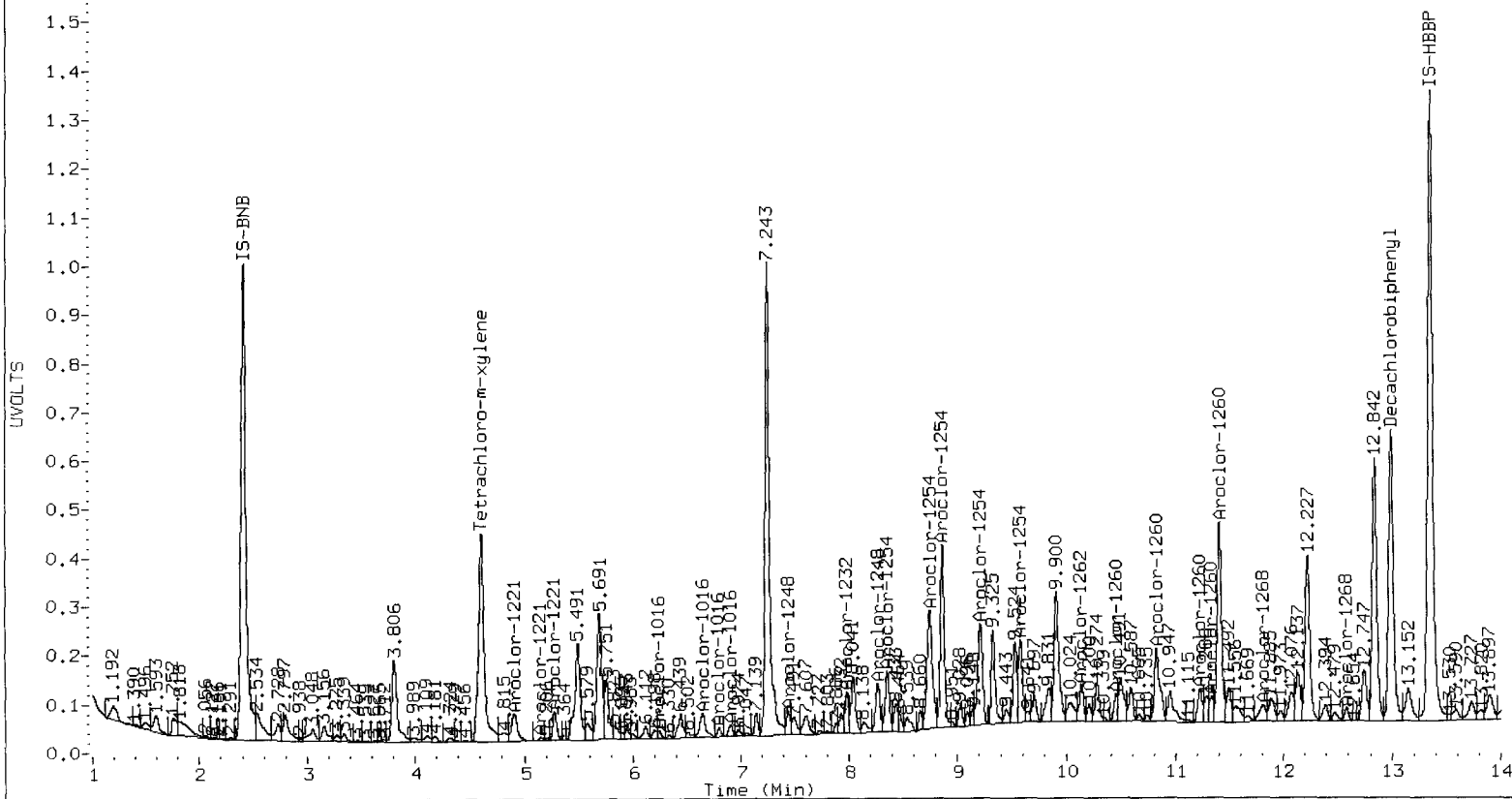
Total PCB Area Col1 (4.710 - 12.891) = 1109213334 Col1 Total PCB = 0.6 ppm*

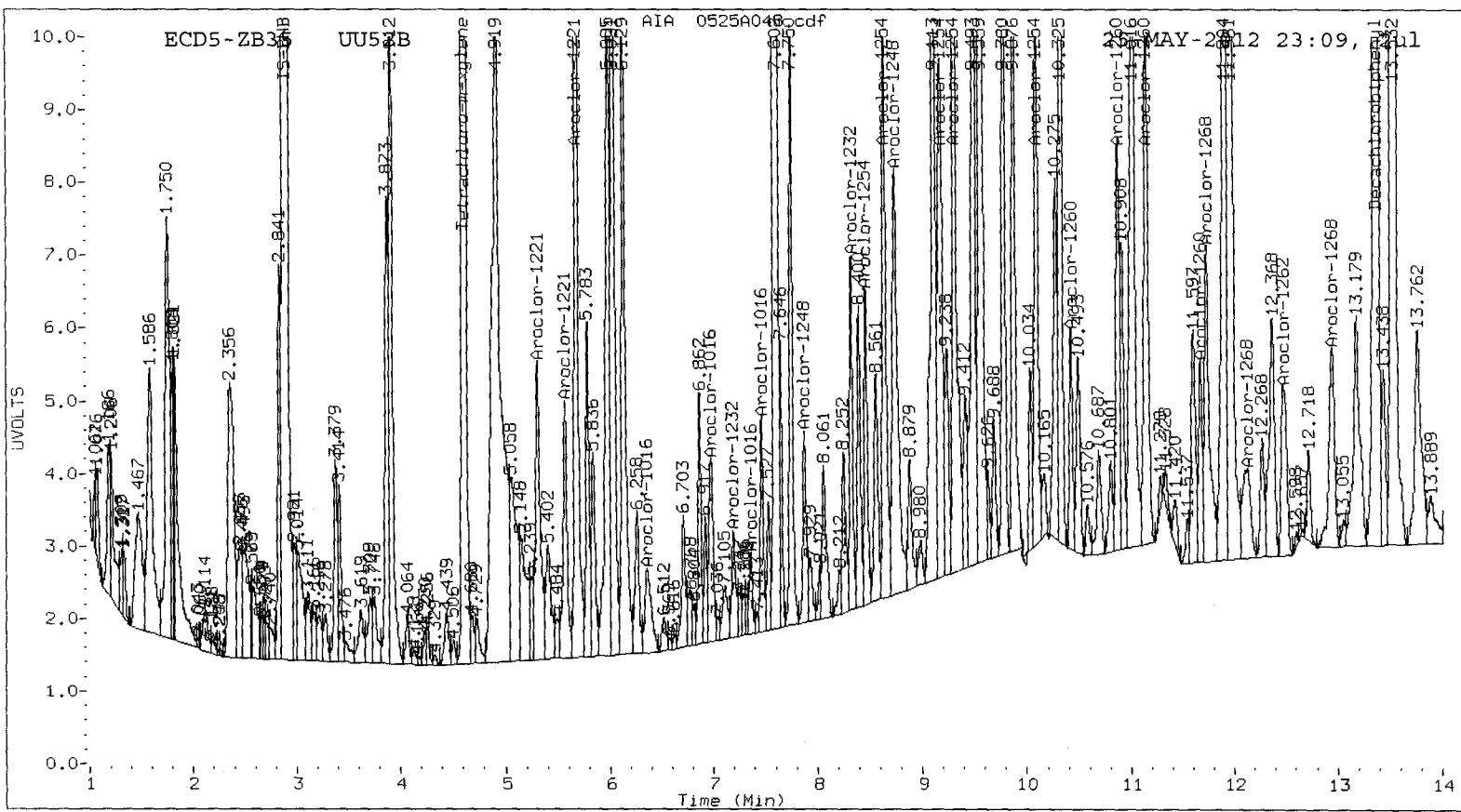
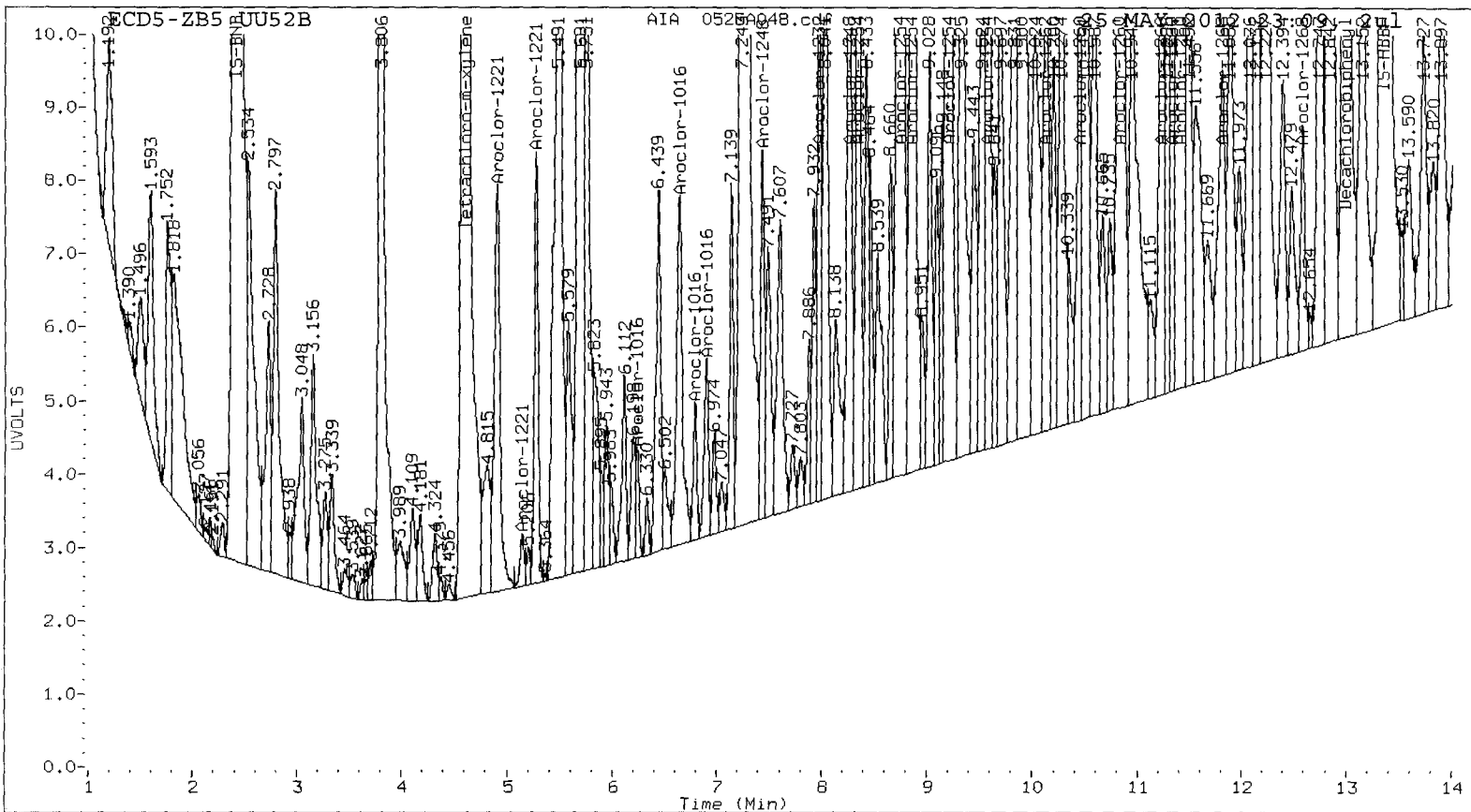
Total PCB Area Col2 (4.711 - 13.265) = 579315473 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01705





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A049.d
Data file 2: 20120523.b/0525-2.b/0525A049.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52C
Client ID:
Injection Date: 25-MAY-2012 23:28
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.610 | 0.001 | 81060267 | 4.612 | 0.001 | 42577760 | 34.1 | 31.8 | 7.0 | Tetrachloro-m-xylene |
| 12.993 | 0.002 | 97440671 | 13.366 | 0.001 | 40345328 | 31.5 | 41.2 | 26.5 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|-------|
| Tetrachloro-m-xylene | 85.2 | 79.4 |
| Decachlorobiphenyl | 78.8 | 102.9 |

205/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 148018037 | -4.0 |
| Hexabromobiphenyl | 248602423 | 201405366 | -19.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 95290249 | -13.9 |
| Hexabromobiphenyl | 108855531 | 75841965 | -30.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|----------|--------|--------|----------|-----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.196 | -0.045 | 4213345 | 68.2 | 1 | 6.389 | 0.042 | 3552395 | 71.4 | |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 7994915 | 39.7 | 2 | 6.973 | 0.000 | 2555443 | 22.6 | |
| Aroclor-1016 | 3 | 6.790 | -0.001 | 1658628 | 20.9 | 3 | 7.353 | -0.003 | 1110409 | 38.1 | |
| Aroclor-1016 | 4 | 6.900 | -0.001 | 3087233 | 49.4 | 4 | 7.462 | -0.001 | 2348577 | 72.5 | |
| Total CollAve (4 peaks): | | | | 44.5 | Total Col2Ave (4 peaks): | | | | 51.2 | RPD = 14 | |
| Corrected Ave (3 peaks): | | | | 36.7 | Corrected Ave (3 peaks): | | | | 44.1 | RPD = 18 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.905 | 0.021 | 10782075 | 971.7 | 1 | 5.307 | 0.017 | 6510614 | 433.5 | |
| Aroclor-1221 | 2 | 5.146 | -0.007 | 855169 | 47.9 | 2 | 5.568 | 0.032 | 4589371 | 517.3 | |
| Aroclor-1221 | 3 | 5.277 | 0.018 | 12080432 | 206.4 | 3 | 5.677 | 0.028 | 11564794 | 416.8 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 408.7 | Total Col2Ave (3 peaks): | | | | 455.9 | RPD = 11 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.196 | -0.042 | 4213345 | 163.4 | 1 | 6.389 | 0.044 | 3552395 | 154.8 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 7994915 | 93.2 | 2 | 6.973 | 0.002 | 2555443 | 53.2 | |
| Aroclor-1232 | 3 | 6.790 | 0.002 | 1658628 | 47.7 | 3 | 7.188 | 0.008 | 2104376 | 129.8 | |
| Aroclor-1232 | 4 | 7.982 | 0.002 | 7964564 | 238.4 | 4 | 8.327 | 0.001 | 3743393 | 210.6 | |
| Total CollAve (4 peaks): | | | | 135.7 | Total Col2Ave (4 peaks): | | | | 137.1 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 101.4 | Corrected Ave (3 peaks): | | | | 112.6 | RPD = 10 | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.196 | -0.046 | 4213345 | 90.4 | 1 | 6.389 | 0.042 | 3552395 | 91.4 | |
| Aroclor-1242 | 2 | 6.642 | -0.001 | 7994915 | 51.5 | 2 | 6.973 | -0.001 | 2555443 | 28.9 | |
| Aroclor-1242 | 3 | 6.790 | -0.001 | 1658628 | 26.8 | 3 | 7.188 | 0.005 | 2104376 | 58.7 | |
| Aroclor-1242 | 4 | 7.982 | -0.001 | 7964564 | 138.0 | 4 | 8.327 | 0.000 | 3743393 | 120.0 | |
| Total CollAve (4 peaks): | | | | 76.7 | Total Col2Ave (4 peaks): | | | | 74.7 | RPD = 3 | |
| Corrected Ave (3 peaks): | | | | 56.2 | Corrected Ave (3 peaks): | | | | 59.7 | RPD = 6 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.642 | 0.002 | 7994915 | 76.9 | 1 | 6.973 | 0.002 | 2555443 | 44.7 | |
| Aroclor-1248 | 2 | 7.438 | 0.000 | 8297785 | 105.7 | 2 | 7.876 | 0.001 | 2376271 | 51.8 | |
| Aroclor-1248 | 3 | 7.982 | -0.002 | 7964564 | 79.2 | 3 | 8.327 | 0.000 | 3743393 | 67.9 | |
| Aroclor-1248 | 4 | 8.268 | -0.006 | 13343173 | 131.5 | 4 | 8.737 | -0.010 | 11267844 | 181.1 | |
| Total CollAve (4 peaks): | | | | 98.3 | Total Col2Ave (4 peaks): | | | | 86.4 | RPD = 13 | |
| Corrected Ave (3 peaks): | | | | 87.3 | Corrected Ave (3 peaks): | | | | 54.8 | RPD = 46* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.358 | 0.001 | 14126668 | 104.0 | 1 | 8.465 | -0.001 | 4256683 | 101.8 | |
| Aroclor-1254 | 2 | 8.749 | 0.021 | 38770407 | 443.3 | 2 | 8.641 | 0.002 | 9156007 | 172.2 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 55876666 | 330.9 | 3 | 9.179 | 0.019 | 13705766 | 337.3 | |
| Aroclor-1254 | 4 | 9.211 | -0.001 | 29907865 | 164.5 | 4 | 9.310 | 0.000 | 11089598 | 123.4 | |
| Aroclor-1254 | 5 | 9.574 | 0.000 | 20768723 | 183.6 | 5 | 10.092 | -0.001 | 8517432 | 161.7 | |
| Total CollAve (5 peaks): | | | | 245.3 | Total Col2Ave (5 peaks): | | | | 279.3 | RPD = 31 | |
| Corrected Ave (4 peaks): | | | | 195.8 | Corrected Ave (4 peaks): | | | | 139.8 | RPD = 33 | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.448 | 0.001 | 6514508 | 59.6 | 1 | 10.423 | 0.001 | 3459766 | 79.5 | |
| Aroclor-1260 | 2 | 10.823 | 0.002 | 29228349 | 107.8 | 2 | 10.872 | 0.000 | 8035857 | 148.8 | |
| Aroclor-1260 | 3 | 11.222 | 0.002 | 11980373 | 79.5 | 3 | 11.146 | 0.001 | 11726753 | 106.9 | |
| Aroclor-1260 | 4 | 11.336 | -0.001 | 6592553 | 101.9 | 4 | 11.668 | 0.002 | 3561823 | 111.2 | |
| Aroclor-1260 | 5 | 11.407 | -0.004 | 44150286 | 571.4 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 184.0 | Total Col2Ave (4 peaks): | | | | 111.6 | RPD = 49* | |
| Corrected Ave (4 peaks): | | | | 100 | Corrected Ave (3 peaks): | | | | 99.2 | RPD = 13 | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.129 | 0.001 | 10757992 | 67.0 | 1 | 10.423 | 0.004 | 3459766 | 48.7 | |
| Aroclor-1262 | 2 | 10.448 | 0.003 | 6514508 | 53.1 | 2 | 10.872 | 0.002 | 8035857 | 131.2 | |
| Aroclor-1262 | 3 | 10.823 | 0.004 | 29228349 | 87.2 | 3 | 11.146 | 0.004 | 11726753 | 84.3 | |
| Aroclor-1262 | 4 | 11.336 | 0.002 | 6592553 | 53.8 | 4 | 11.668 | 0.004 | 3561823 | 63.6 | |
| Aroclor-1262 | 5 | 11.407 | -0.001 | 44150286 | 317.0 | 5 | 12.470 | 0.007 | 4019412 | 77.1 | |
| Total CollAve (5 peaks): | | | | 115.6 | Total Col2Ave (5 peaks): | | | | 81.0 | RPD = 35 | |
| Corrected Ave (4 peaks): | | | | 65.3 | Corrected Ave (4 peaks): | | | | 68.4 | RPD = 5 | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.336 | 0.000 | 6592553 | 19.2 | 1 | 11.668 | 0.004 | 3561823 | 24.6 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 44150286 | 128.1 | 2 | 11.728 | -0.003 | 8273627 | 60.6 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|--------|---------|----------|
| Aroclor-1268 3 | 11.808 | 0.015 | 7116056 | 24.7 | 3 | 12.150 | 0.022 | 2116705 | 18.5 |
| Aroclor-1268 4 | 12.586 | 0.001 | 2862768 | 3.4 | 4 | 12.936 | -0.013 | 7965232 | 24.6 |
| Total Col1Ave (4 peaks): | | | 43.8 | Total Col2Ave (4 peaks): | | | | 32.1 | RPD = 31 |
| Corrected Ave (3 peaks): | | | 15.8 | Corrected Ave (3 peaks): | | | | 22.6 | RPD = 35 |

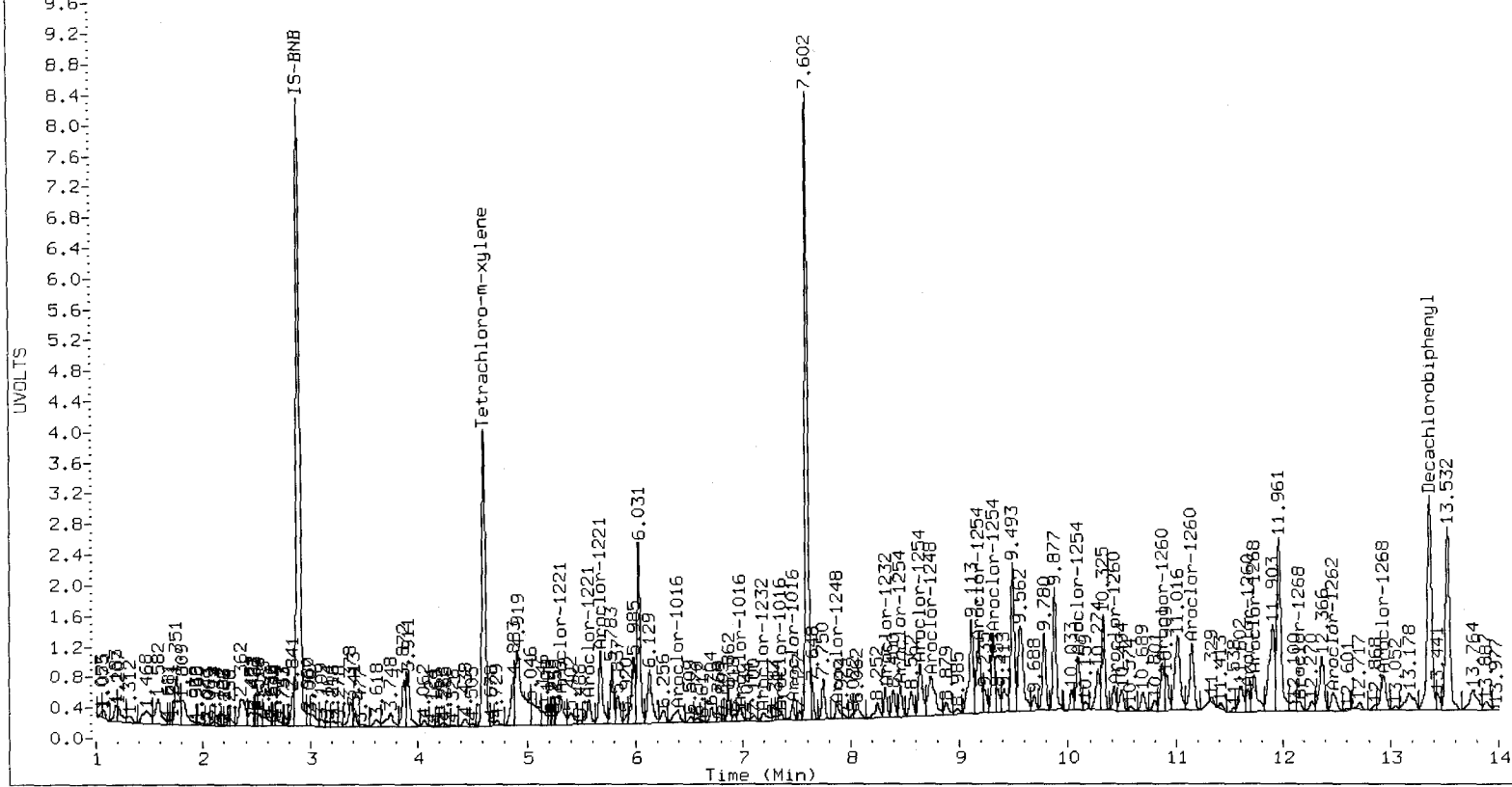
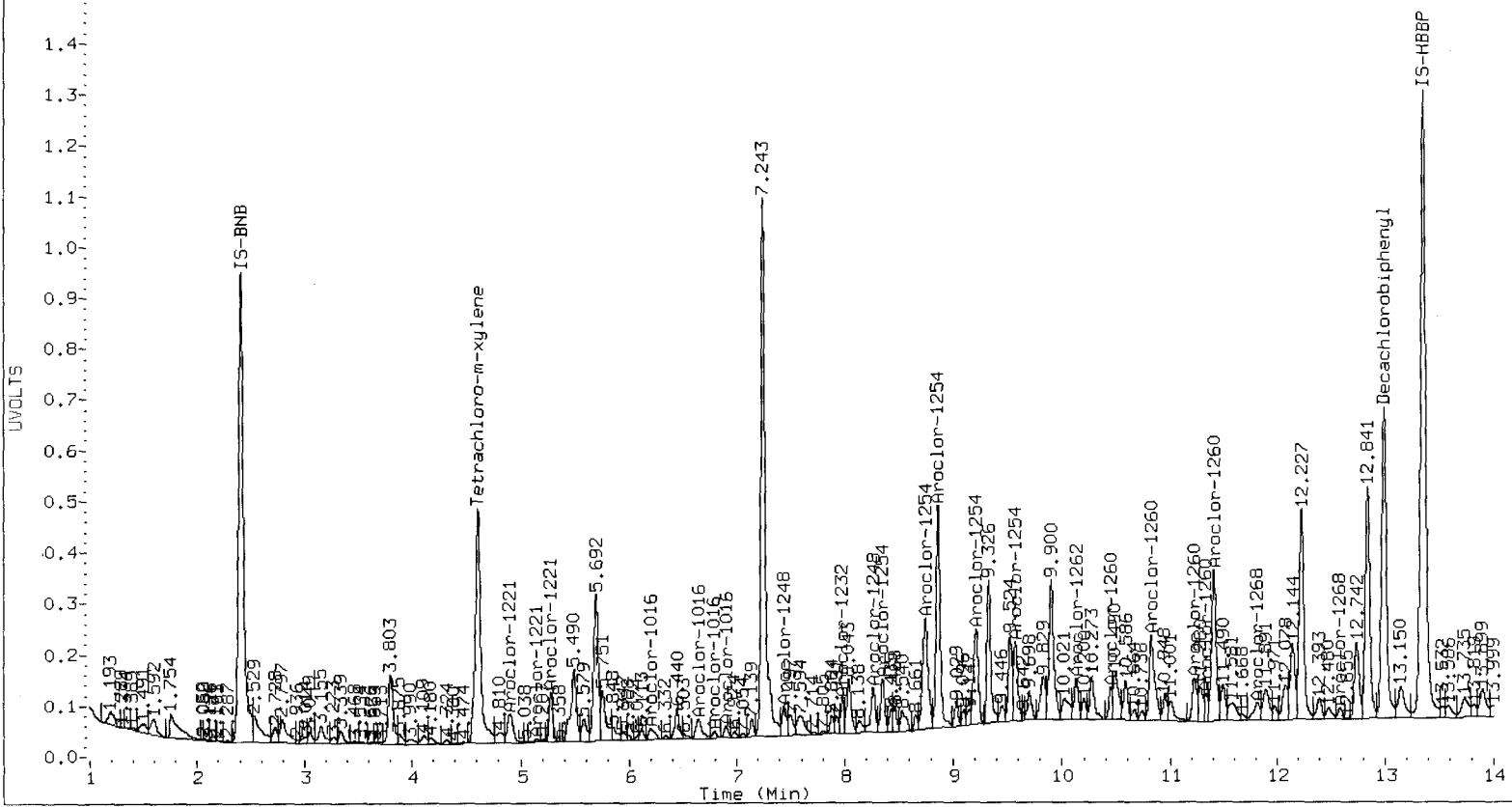
Total PCB Area Col1 (4.710 - 12.891) = 1154155408 Col1 Total PCB = 0.7 ppm*

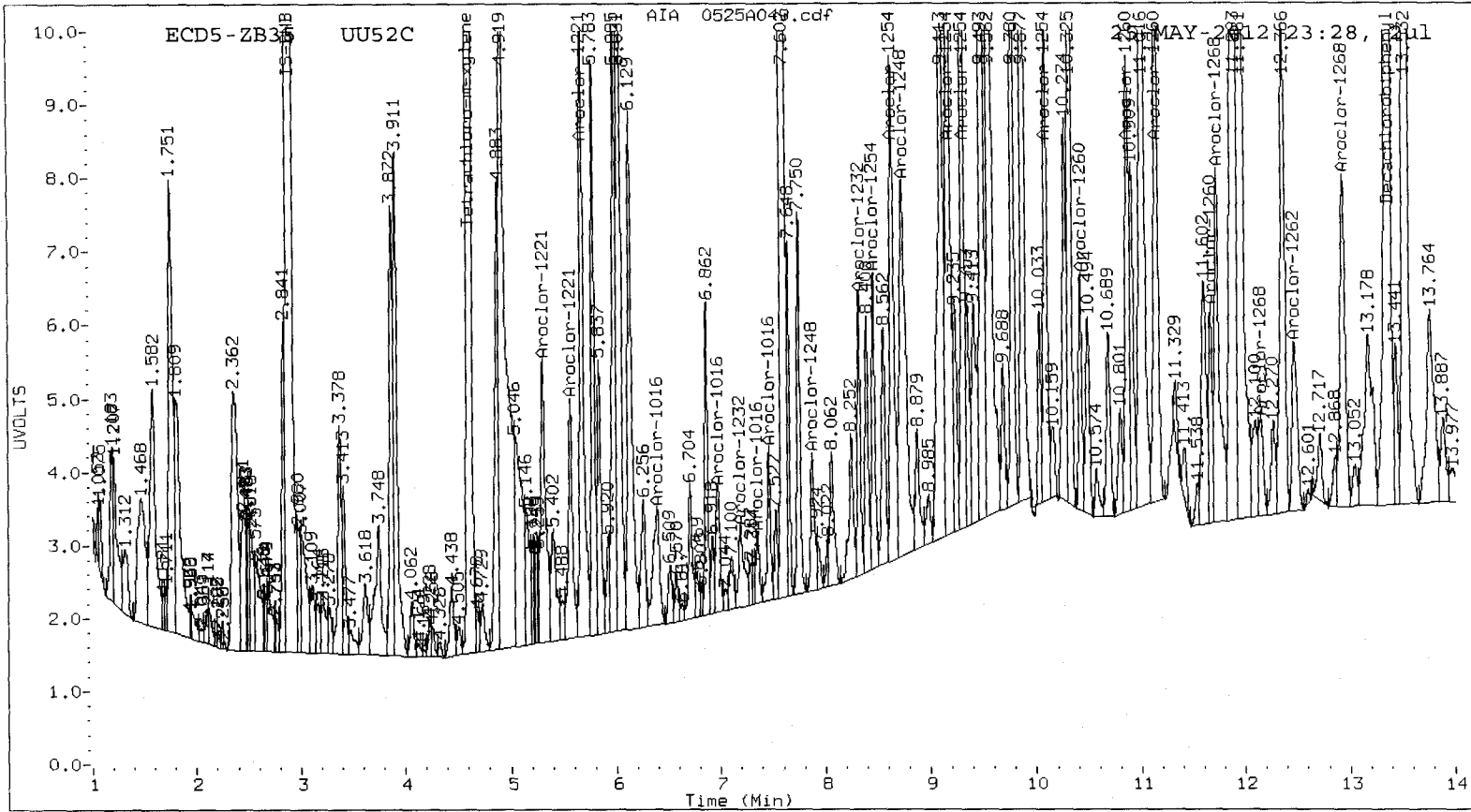
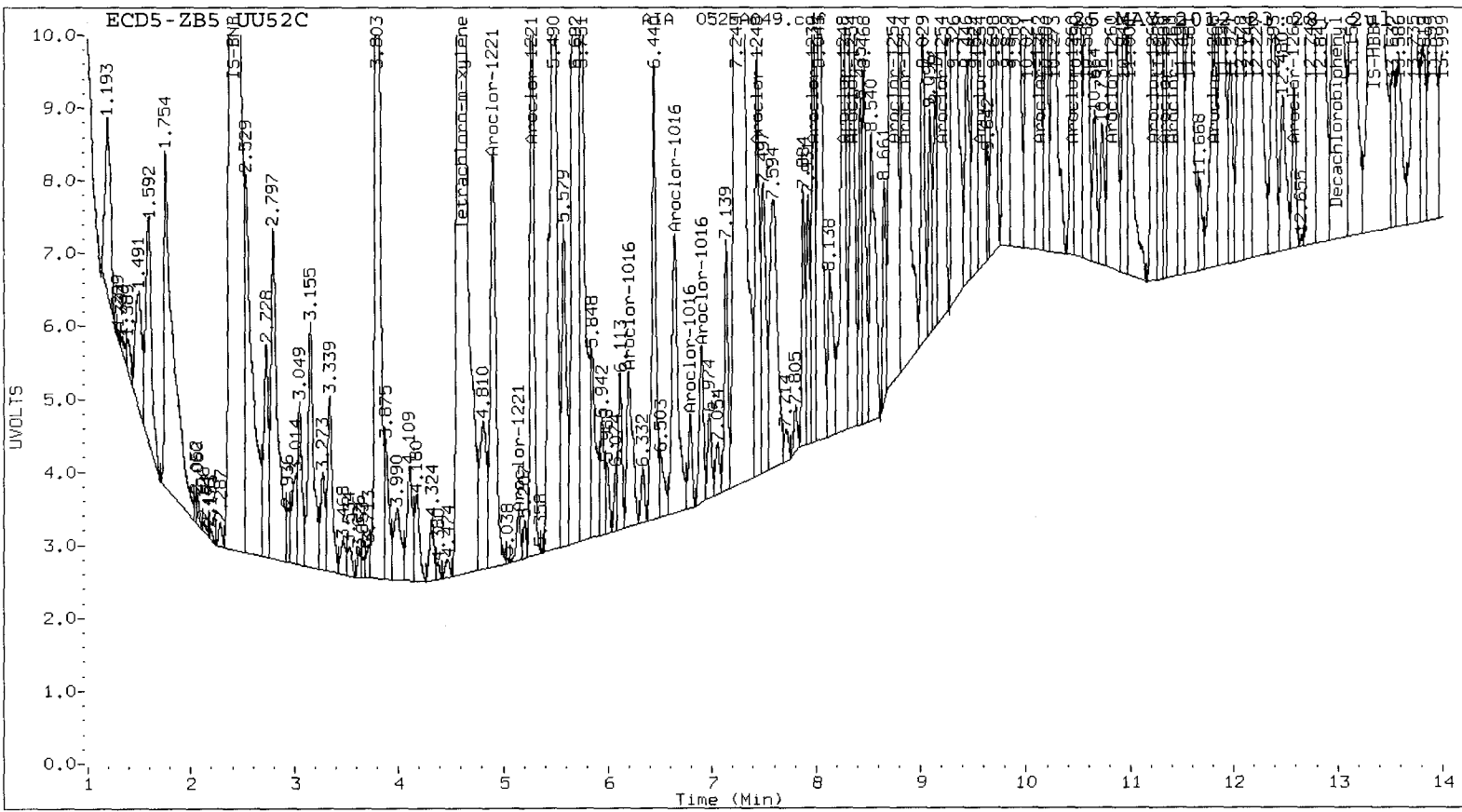
Total PCB Area Col2 (4.711 - 13.265) = 609292491 Col2 Total PCB = 0.7 ppm*

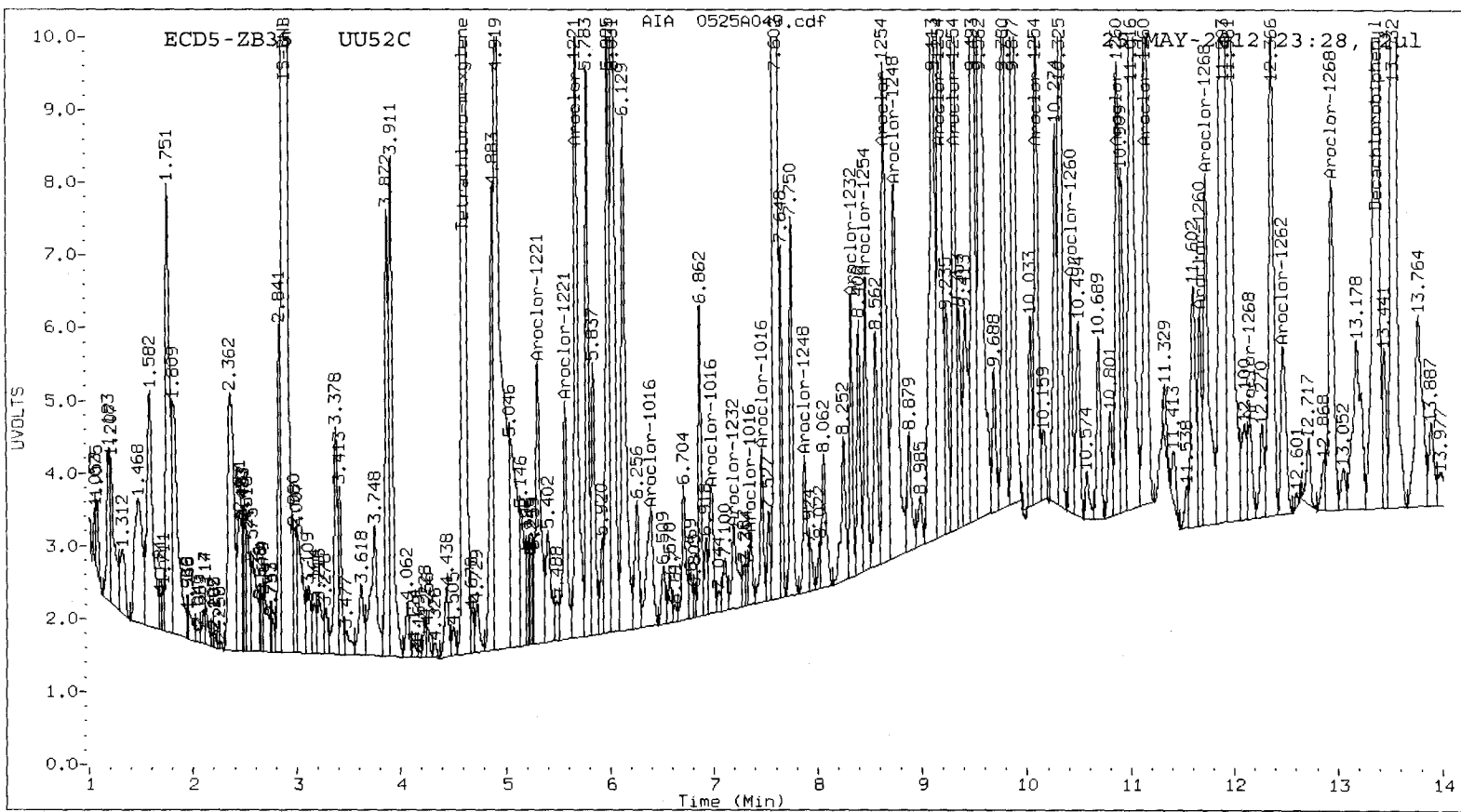
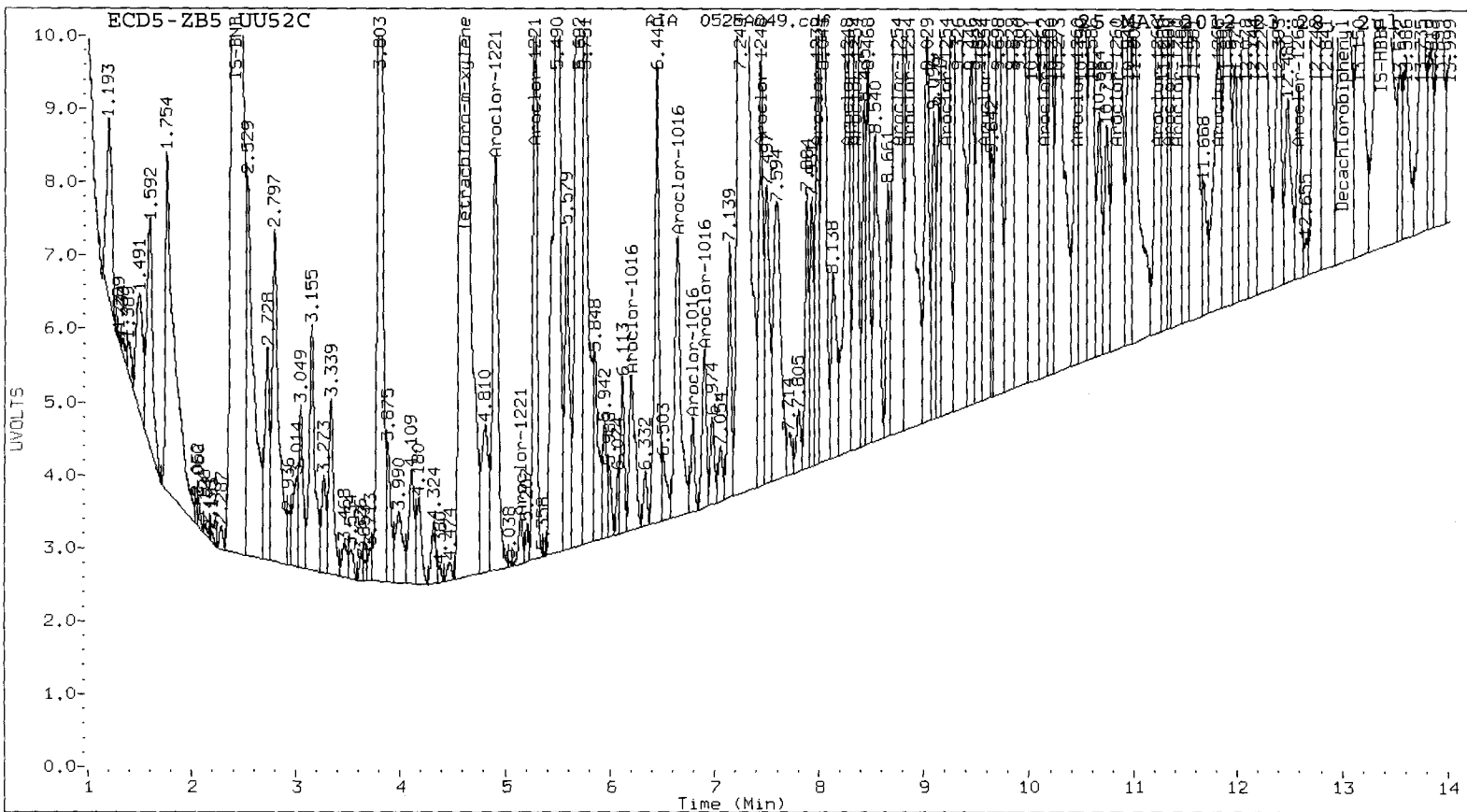
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01711







Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A050.d
Data file 2: 20120523.b/0525-2.b/0525A050.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52D
Client ID:
Injection Date: 25-MAY-2012 23:47
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.611 | 0.001 82755903 | 4.613 | 0.002 43822075 | 32.6 | 30.2 | 7.5 | Tetrachloro-m-xylene |
| 12.991 | 0.000 180388132 | 13.368 | 0.002 38642306 | 56.8 | 38.9 | 37.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|----------------|------|
| Tetrachloro-m-xylene | 81.4 | 75.6 |
| Decachlorobiphenyl | 142.1 <i>M</i> | 97.2 |

205/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 158091448 | 2.5 |
| Hexabromobiphenyl | 248602423 | 206785616 | -16.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 103030460 | -6.9 |
| Hexabromobiphenyl | 108855531 | 76927516 | -29.3 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|--------|----------|--------|--------------------------|--------|--------|----------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 6.239 | -0.002 | 1521303 | 23.1 | 1 | 6.392 | 0.045 | 8768308 | 163.1 |
| Aroclor-1016 | 2 | 6.646 | 0.004 | 11397104 | 53.0 | 2 | 6.966 | -0.008 | 2949597 | 24.2 |
| Aroclor-1016 | 3 | 6.787 | -0.004 | 1495222 | 17.6 | 3 | 7.352 | -0.004 | 2211040 | 70.2 |
| Aroclor-1016 | 4 | 6.903 | 0.003 | 2626304 | 39.3 | 4 | 7.462 | -0.001 | 2496812 | 71.3 |
| Total CollAve (4 peaks): | | | | 33.3 | | Total Col2Ave (4 peaks): | | | | 82.2 RPD = 85* |
| Corrected Ave (3 peaks): | | | | 26.7 | | Corrected Ave (3 peaks): | | | | 55.2 RPD = 70* |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.907 | 0.023 | 11483507 | 969.0 | 1 | 5.307 | 0.018 | 7217003 | 444.5 |
| Aroclor-1221 | 2 | 5.148 | -0.005 | 851361 | 44.6 | 2 | 5.569 | 0.033 | 5519571 | 575.4 |
| Aroclor-1221 | 3 | 5.277 | 0.019 | 11422348 | 182.7 | 3 | 5.678 | 0.029 | 11784659 | 392.8 |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 |
| Total CollAve (3 peaks): | | | | 398.8 | | Total Col2Ave (3 peaks): | | | | 470.9 RPD = 17 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.239 | 0.001 | 1521303 | 55.2 | 1 | 6.392 | 0.047 | 8768308 | 353.4 |
| Aroclor-1232 | 2 | 6.646 | 0.007 | 11397104 | 124.4 | 2 | 6.966 | -0.006 | 2949597 | 56.8 |
| Aroclor-1232 | 3 | 6.787 | -0.001 | 1495222 | 40.2 | 3 | 7.190 | 0.010 | 2633791 | 150.3 |
| Aroclor-1232 | 4 | 7.984 | 0.004 | 8179188 | 229.2 | 4 | 8.326 | 0.001 | 3384664 | 176.1 |
| Total CollAve (4 peaks): | | | | 112.3 | | Total Col2Ave (4 peaks): | | | | 184.1 RPD = 48* |
| Corrected Ave (3 peaks): | | | | 73.3 | | Corrected Ave (3 peaks): | | | | 127.7 RPD = 54* |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.239 | -0.003 | 1521303 | 30.6 | 1 | 6.392 | 0.045 | 8768308 | 208.6 |
| Aroclor-1242 | 2 | 6.646 | 0.004 | 11397104 | 68.7 | 2 | 6.966 | -0.009 | 2949597 | 30.9 |
| Aroclor-1242 | 3 | 6.787 | -0.004 | 1495222 | 22.6 | 3 | 7.190 | 0.007 | 2633791 | 67.9 |
| Aroclor-1242 | 4 | 7.984 | 0.001 | 8179188 | 132.6 | 4 | 8.326 | -0.001 | 3384664 | 100.4 |
| Total CollAve (4 peaks): | | | | 63.6 | | Total Col2Ave (4 peaks): | | | | 101.9 RPD = 46* |
| Corrected Ave (3 peaks): | | | | 40.6 | | Corrected Ave (3 peaks): | | | | 66.4 RPD = 48* |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.646 | 0.006 | 11397104 | 102.7 | 1 | 6.966 | -0.005 | 2949597 | 47.7 |
| Aroclor-1248 | 2 | 7.442 | 0.003 | 18918908 | 225.6 | 2 | 7.876 | 0.001 | 2296290 | 46.3 |
| Aroclor-1248 | 3 | 7.984 | 0.000 | 8179188 | 76.1 | 3 | 8.326 | -0.001 | 3384664 | 56.8 |
| Aroclor-1248 | 4 | 8.267 | -0.007 | 10741404 | 99.1 | 4 | 8.739 | -0.008 | 9525582 | 141.6 |
| Total CollAve (4 peaks): | | | | 125.9 | | Total Col2Ave (4 peaks): | | | | 73.1 RPD = 53* |
| Corrected Ave (3 peaks): | | | | 92.6 | | Corrected Ave (3 peaks): | | | | 50.3 RPD = 59* |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.356 | -0.001 | 16049933 | 69.3 | 1 | 8.465 | -0.001 | 2797250 | 61.8 |
| Aroclor-1254 | 2 | 8.748 | 0.020 | 32575299 | 348.7 | 2 | 8.640 | 0.002 | 6749004 | 117.4 |
| Aroclor-1254 | 3 | 8.862 | -0.001 | 44834156 | 248.6 | 3 | 9.180 | 0.021 | 10940088 | 249.0 |
| Aroclor-1254 | 4 | 9.212 | 0.000 | 23592748 | 121.5 | 4 | 9.310 | 0.000 | 8571878 | 88.2 |
| Aroclor-1254 | 5 | 9.578 | 0.004 | 16125212 | 133.5 | 5 | 10.090 | -0.002 | 6629841 | 116.4 |
| Total CollAve (5 peaks): | | | | 184.3 | | Total Col2Ave (5 peaks): | | | | 126.6 RPD = 37 |
| Corrected Ave (4 peaks): | | | | 143.2 | | Corrected Ave (4 peaks): | | | | 96.0 RPD = 40 |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.492 | 0.045 | 21533367 | 191.9 | 1 | 10.423 | 0.001 | 2431367 | 55.1 |
| Aroclor-1260 | 2 | 10.822 | 0.001 | 20254376 | 72.8 | 2 | 10.873 | 0.002 | 4104410 | 74.9 |
| Aroclor-1260 | 3 | 11.276 | 0.056 | 16372626 | 105.8 | 3 | 11.146 | 0.001 | 7104449 | 63.9 |
| Aroclor-1260 | 4 | 11.339 | 0.002 | 4074460 | 61.3 | 4 | 11.684 | 0.018 | 2642078 | 81.4 |
| Aroclor-1260 | 5 | 11.410 | -0.001 | 60365123 | 761.0 | NS | --- | --- | --- | --- |
| Total CollAve (5 peaks): | | | | 238.6 | | Total Col2Ave (4 peaks): | | | | 68.8 RPD = 110* |
| Corrected Ave (4 peaks): | | | | 198.0 | | Corrected Ave (3 peaks): | | | | 64.8 RPD = 50* |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.132 | 0.004 | 7996065 | 48.5 | 1 | 10.423 | 0.004 | 2431367 | 33.7 |
| Aroclor-1262 | 2 | 10.492 | 0.048 | 21533367 | 171.0 | 2 | 10.873 | 0.003 | 4104410 | 66.0 |
| Aroclor-1262 | 3 | 10.822 | 0.004 | 20254376 | 58.9 | 3 | 11.146 | 0.004 | 7104449 | 50.3 |
| Aroclor-1262 | 4 | 11.339 | 0.005 | 4074460 | 32.4 | 4 | 11.684 | 0.020 | 2642078 | 46.5 |
| Aroclor-1262 | 5 | 11.410 | 0.002 | 60365123 | 422.1 | 5 | 12.473 | 0.010 | 2991500 | 56.6 |
| Total CollAve (5 peaks): | | | | 146.6 | | Total Col2Ave (5 peaks): | | | | 50.6 RPD = 97* |
| Corrected Ave (4 peaks): | | | | 77.7 | | Corrected Ave (4 peaks): | | | | 46.8 RPD = 50* |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.339 | 0.003 | 4074460 | 11.6 | 1 | 11.684 | 0.020 | 2642078 | 18.0 |
| Aroclor-1268 | 2 | 11.410 | 0.003 | 60365123 | 170.5 | 2 | 11.740 | 0.010 | 5532573 | 40.0 |

| | | | | | | | | | |
|--------------------------|--------|-------|--------------------------|------|------|-----------|--------|---------|------|
| Aroclor-1268 3 | 11.812 | 0.019 | 3828199 | 13.0 | 3 | 12.150 | 0.022 | 1389421 | 12.0 |
| Aroclor-1268 4 | 12.588 | 0.003 | 2125314 | 2.4 | 4 | 12.936 | -0.013 | 6018508 | 18.3 |
| Total Col1Ave (4 peaks): | | 49.4 | Total Col2Ave (4 peaks): | | 22.1 | RPD = 76* | | | |
| Corrected Ave (3 peaks): | | 9.0 | Corrected Ave (3 peaks): | | 16.1 | RPD = 57* | | | |

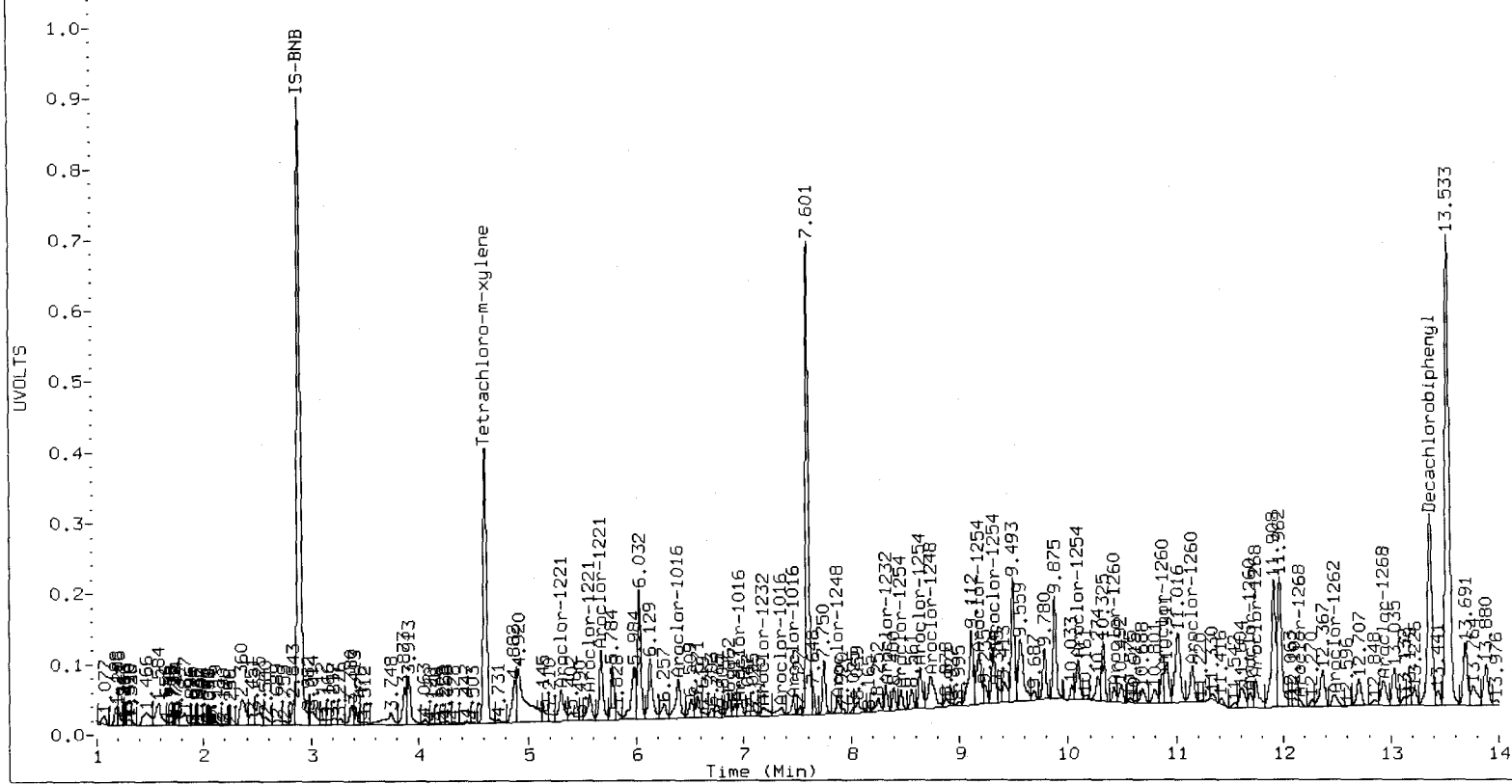
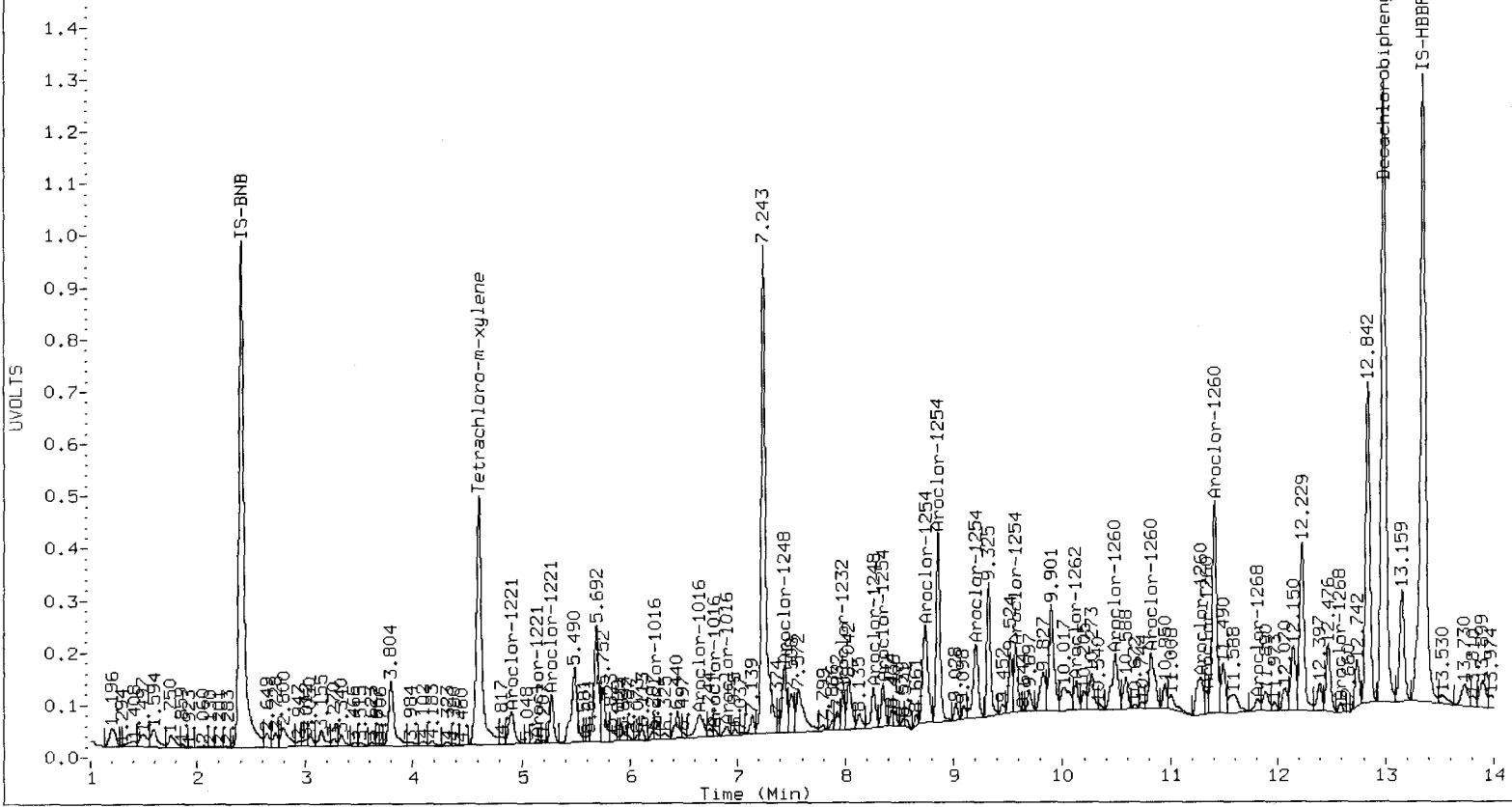
Total PCB Area Col1 (4.710 - 12.891) = 1053635871 Col1 Total PCB = 0.6 ppm*

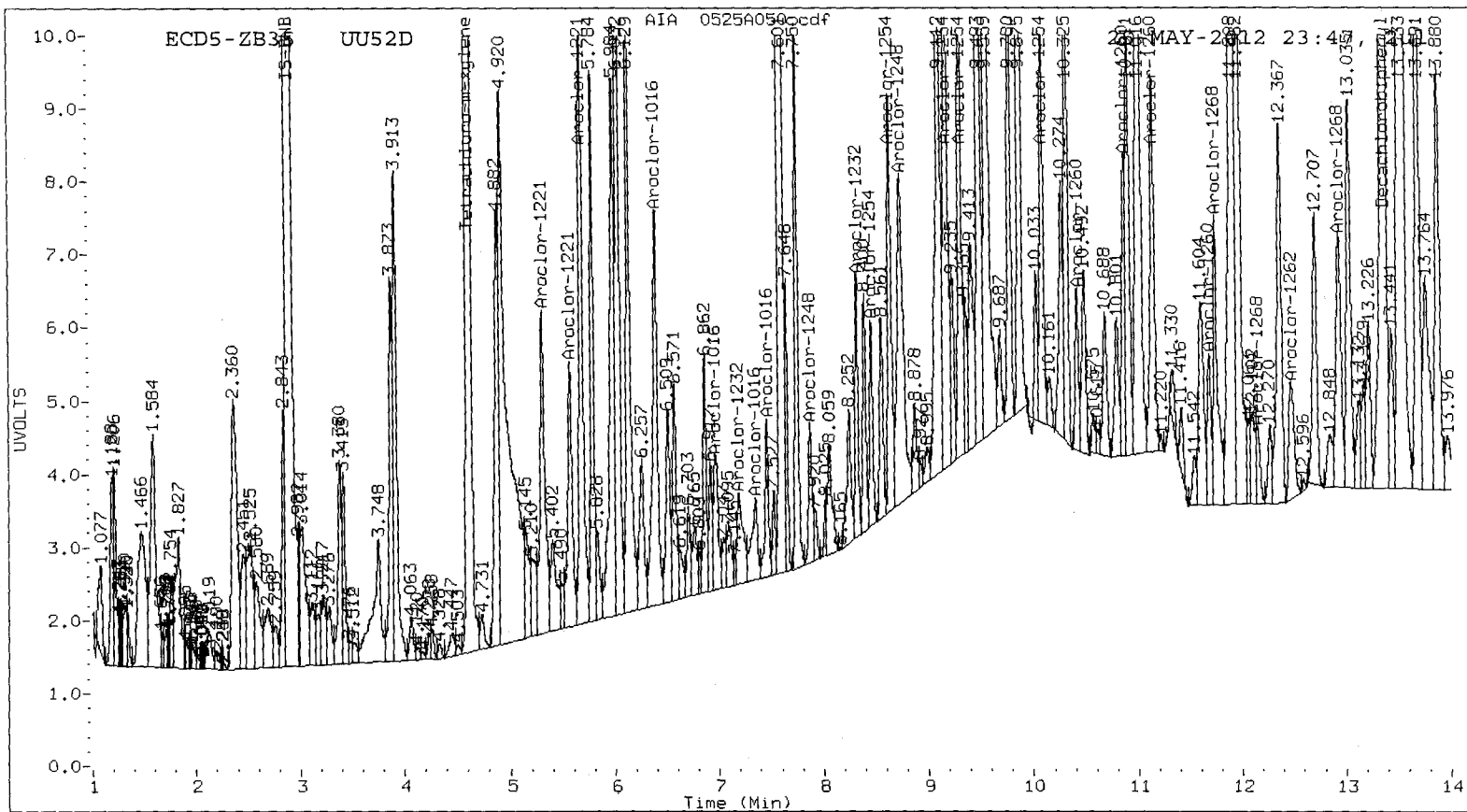
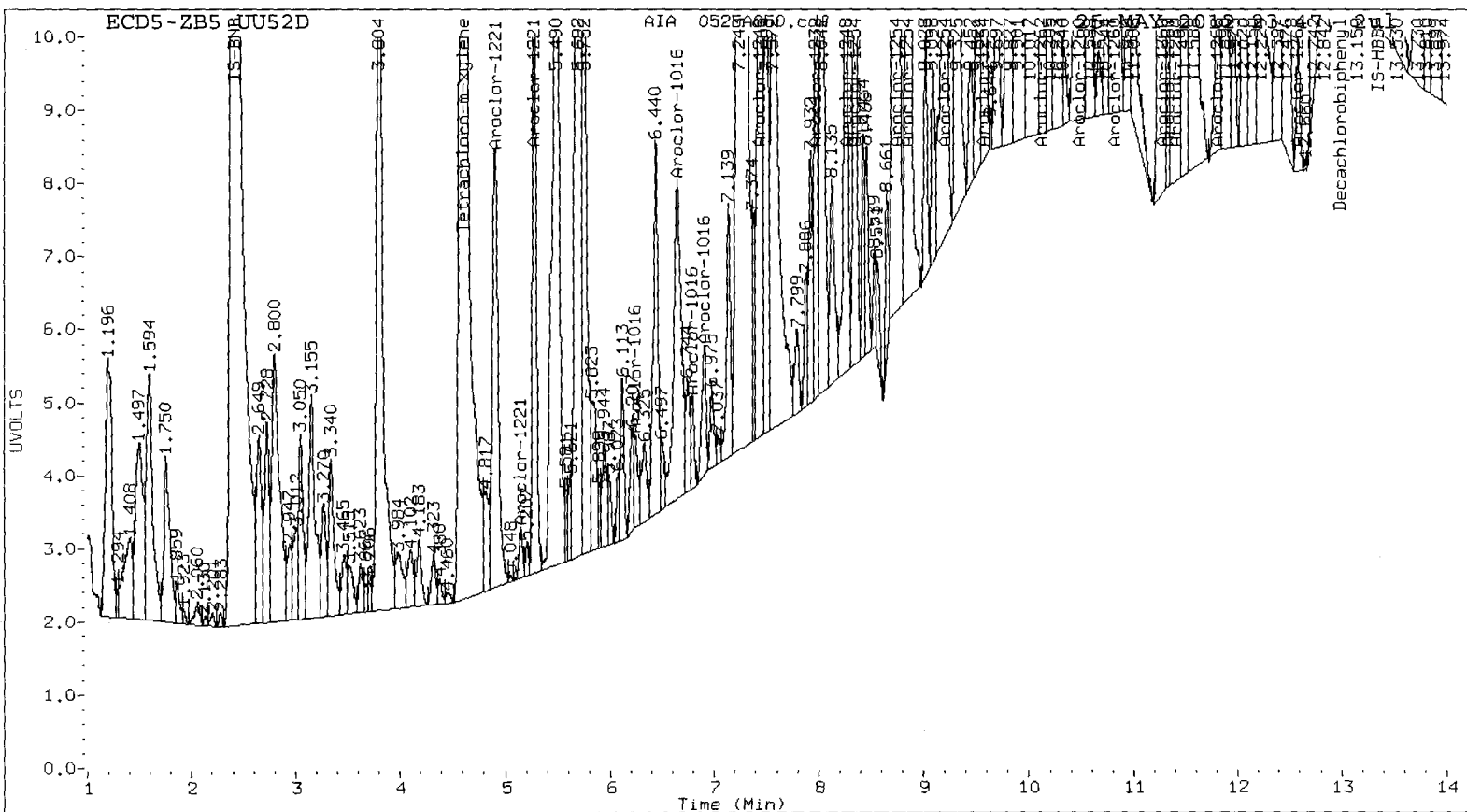
Total PCB Area Col2 (4.711 - 13.265) = 549147918 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

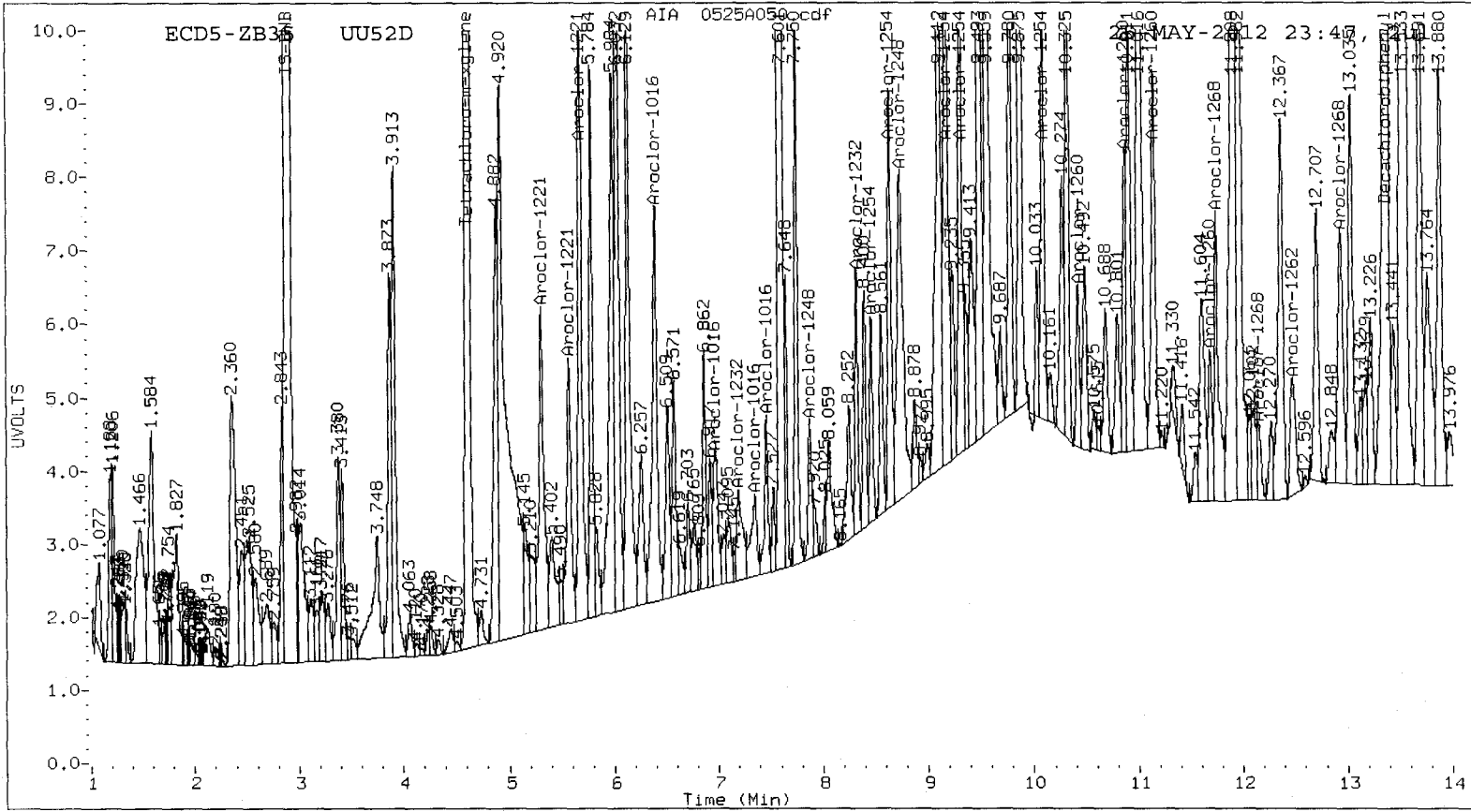
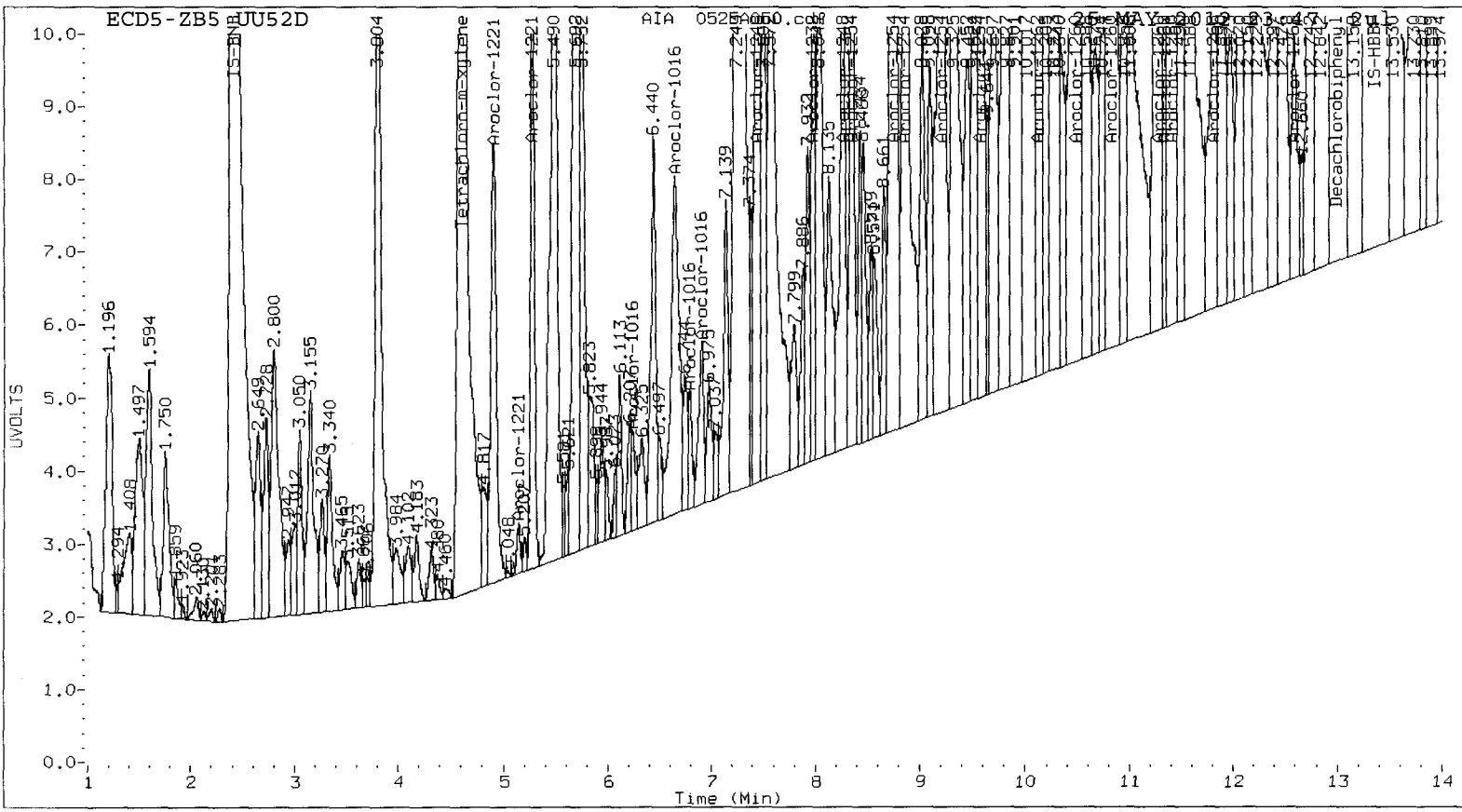
PCB-Form 10 Mod.

UU52:01717





UU52: 01710



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A051.d
Data file 2: 20120523.b/0525-2.b/0525A051.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52E
Client ID:
Injection Date: 26-MAY-2012 00:06
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.611 | 0.001 79674646 | 4.613 | 0.002 40369182 | 31.9 | 32.2 | 1.0 | Tetrachloro-m-xylene |
| 12.993 | 0.002 90893888 | 13.366 | 0.000 33628196 | 31.7 | 35.6 | 11.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 79.7 | 80.5 |
| Decachlorobiphenyl | 79.4 | 89.1 |

05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 155584352 | 0.9 |
| Hexabromobiphenyl | 248602423 | 186599931 | -24.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 89134654 | -19.4 |
| Hexabromobiphenyl | 108855531 | 73010686 | -32.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|----------|--------|--------|----------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.208 | -0.033 | 2997305 | 46.2 | 1 | 6.390 | 0.043 | 3650008 | 78.5 | |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 7523325 | 35.6 | 2 | 6.973 | -0.001 | 2033032 | 19.3 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 1455691 | 17.4 | 3 | 7.353 | -0.003 | 1288102 | 47.3 | |
| Aroclor-1016 | 4 | 6.902 | 0.001 | 3118772 | 47.4 | 4 | 7.462 | -0.001 | 1563629 | 51.6 | |
| Total CollAve (4 peaks): | | | | 36.7 | Total Col2Ave (4 peaks): | | | | 49.2 | RPD = 29 | |
| Corrected Ave (3 peaks): | | | | 33.1 | Corrected Ave (3 peaks): | | | | 39.4 | RPD = 17 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.903 | 0.019 | 9438254 | 809.3 | 1 | 5.308 | 0.018 | 6059354 | 431.4 | |
| Aroclor-1221 | 2 | 5.145 | -0.008 | 875209 | 46.6 | 2 | 5.568 | 0.032 | 4746234 | 571.9 | |
| Aroclor-1221 | 3 | 5.277 | 0.019 | 10044280 | 163.3 | 3 | 5.624 | -0.025 | 66171 | 2.5 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.679 | -0.038 | 10713453 | 2253.0 | |
| Total CollAve (3 peaks): | | | | 339.7 | Total Col2Ave (4 peaks): | | | | 814.7 | RPD = 82* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 335.3 | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.208 | -0.030 | 2997305 | 110.6 | 1 | 6.390 | 0.045 | 3650008 | 170.0 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 7523325 | 83.4 | 2 | 6.973 | 0.002 | 2033032 | 45.2 | |
| Aroclor-1232 | 3 | 6.790 | 0.003 | 1455691 | 39.8 | 3 | 7.187 | 0.008 | 1263219 | 83.3 | |
| Aroclor-1232 | 4 | 7.982 | 0.002 | 6517756 | 185.6 | 4 | 8.326 | 0.001 | 2709920 | 163.0 | |
| Total CollAve (4 peaks): | | | | 104.9 | Total Col2Ave (4 peaks): | | | | 115.4 | RPD = 10 | |
| Corrected Ave (3 peaks): | | | | 77.9 | Corrected Ave (3 peaks): | | | | 97.2 | RPD = 22 | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.208 | -0.034 | 2997305 | 61.2 | 1 | 6.390 | 0.042 | 3650008 | 100.4 | |
| Aroclor-1242 | 2 | 6.642 | 0.000 | 7523325 | 46.1 | 2 | 6.973 | -0.001 | 2033032 | 24.6 | |
| Aroclor-1242 | 3 | 6.790 | 0.000 | 1455691 | 22.3 | 3 | 7.187 | 0.005 | 1263219 | 37.6 | |
| Aroclor-1242 | 4 | 7.982 | -0.001 | 6517756 | 107.4 | 4 | 8.326 | 0.000 | 2709920 | 92.9 | |
| Total CollAve (4 peaks): | | | | 59.3 | Total Col2Ave (4 peaks): | | | | 63.9 | RPD = 8 | |
| Corrected Ave (3 peaks): | | | | 43.2 | Corrected Ave (3 peaks): | | | | 51.7 | RPD = 18 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.642 | 0.003 | 7523325 | 68.9 | 1 | 6.973 | 0.002 | 2033032 | 38.0 | |
| Aroclor-1248 | 2 | 7.440 | 0.002 | 8628237 | 104.6 | 2 | 7.877 | 0.002 | 1772161 | 41.3 | |
| Aroclor-1248 | 3 | 7.982 | -0.001 | 6517756 | 61.7 | 3 | 8.326 | 0.000 | 2709920 | 52.6 | |
| Aroclor-1248 | 4 | 8.261 | -0.013 | 12605386 | 118.2 | 4 | 8.738 | -0.009 | 7770144 | 133.5 | |
| Total CollAve (4 peaks): | | | | 88.3 | Total Col2Ave (4 peaks): | | | | 66.3 | RPD = 28 | |
| Corrected Ave (3 peaks): | | | | 78.4 | Corrected Ave (3 peaks): | | | | 74.0 | RPD = 56* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.356 | 0.000 | 8762168 | 61.4 | 1 | 8.465 | -0.001 | 2581667 | 66.0 | |
| Aroclor-1254 | 2 | 8.746 | 0.018 | 31351798 | 341.1 | 2 | 8.641 | 0.002 | 4866847 | 97.8 | |
| Aroclor-1254 | 3 | 8.862 | -0.001 | 45417356 | 255.9 | 3 | 9.183 | 0.023 | 16572919 | 436.0 | |
| Aroclor-1254 | 4 | 9.215 | 0.003 | 19612434 | 102.6 | 4 | 9.309 | 0.000 | 7078480 | 84.2 | |
| Aroclor-1254 | 5 | 9.575 | 0.002 | 16362025 | 137.6 | 5 | 10.090 | -0.003 | 5082712 | 103.1 | |
| Total CollAve (5 peaks): | | | | 179.7 | Total Col2Ave (5 peaks): | | | | 157.4 | RPD = 13 | |
| Corrected Ave (4 peaks): | | | | 139.4 | Corrected Ave (4 peaks): | | | | 87.8 | RPD = 45* | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.488 | 0.042 | 24964803 | 246.6 | 1 | 10.423 | 0.001 | 1690327 | 40.4 | |
| Aroclor-1260 | 2 | 10.823 | 0.002 | 18536124 | 73.8 | 2 | 10.909 | 0.037 | 11230125 | 216.0 | |
| Aroclor-1260 | 3 | 11.276 | 0.055 | 26473683 | 189.6 | 3 | 11.145 | 0.000 | 6995029 | 66.3 | |
| Aroclor-1260 | 4 | --- | --- | --- | 0.0 | 4 | 11.668 | 0.002 | 1906642 | 61.9 | |
| Aroclor-1260 | 5 | 11.406 | -0.005 | 55858216 | 780.3 | NS | --- | --- | --- | --- | |
| Total CollAve (4 peaks): | | | | 322.6 | Total Col2Ave (4 peaks): | | | | 96.1 | RPD = 108* | |
| Corrected Ave (3 peaks): | | | | 170.0 | Corrected Ave (3 peaks): | | | | 96.3 | RPD = 101* | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.130 | 0.002 | 6703854 | 45.1 | 1 | 10.423 | 0.004 | 1690327 | 24.7 | |
| Aroclor-1262 | 2 | 10.488 | 0.044 | 24964803 | 219.7 | 2 | 10.909 | 0.039 | 11230125 | 190.4 | |
| Aroclor-1262 | 3 | 10.823 | 0.004 | 18536124 | 59.7 | 3 | 11.145 | 0.002 | 6995029 | 52.2 | |
| Aroclor-1262 | 4 | 11.276 | -0.058 | 26473683 | 233.3 | 4 | 11.668 | 0.004 | 1906642 | 35.4 | |
| Aroclor-1262 | 5 | 11.406 | -0.002 | 55858216 | 432.8 | 5 | 12.469 | 0.007 | 2357906 | 47.0 | |
| Total CollAve (5 peaks): | | | | 198.1 | Total Col2Ave (5 peaks): | | | | 69.9 | RPD = 96* | |
| Corrected Ave (4 peaks): | | | | 139.4 | Corrected Ave (4 peaks): | | | | 39.8 | RPD = 111* | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.276 | -0.060 | 26473683 | 83.3 | 1 | 11.668 | 0.004 | 1906642 | 13.7 | |
| Aroclor-1268 | 2 | 11.406 | -0.001 | 55858216 | 174.9 | 2 | 11.726 | -0.005 | 3571249 | 27.2 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|--------|---------|------------|
| Aroclor-1268 3 | 11.810 | 0.017 | 2630674 | 9.9 | 3 | 12.159 | 0.031 | 3500372 | 31.7 |
| Aroclor-1268 4 | 12.586 | 0.001 | 2935267 | 3.7 | 4 | 12.938 | -0.012 | 4549955 | 14.6 |
| Total Col1Ave (4 peaks): | | | 67.9 | Total Col2Ave (4 peaks): | | | | 21.8 | RPD = 103* |
| Corrected Ave (3 peaks): | | | 32.3 | Corrected Ave (3 peaks): | | | | 18.5 | RPD = 54* |

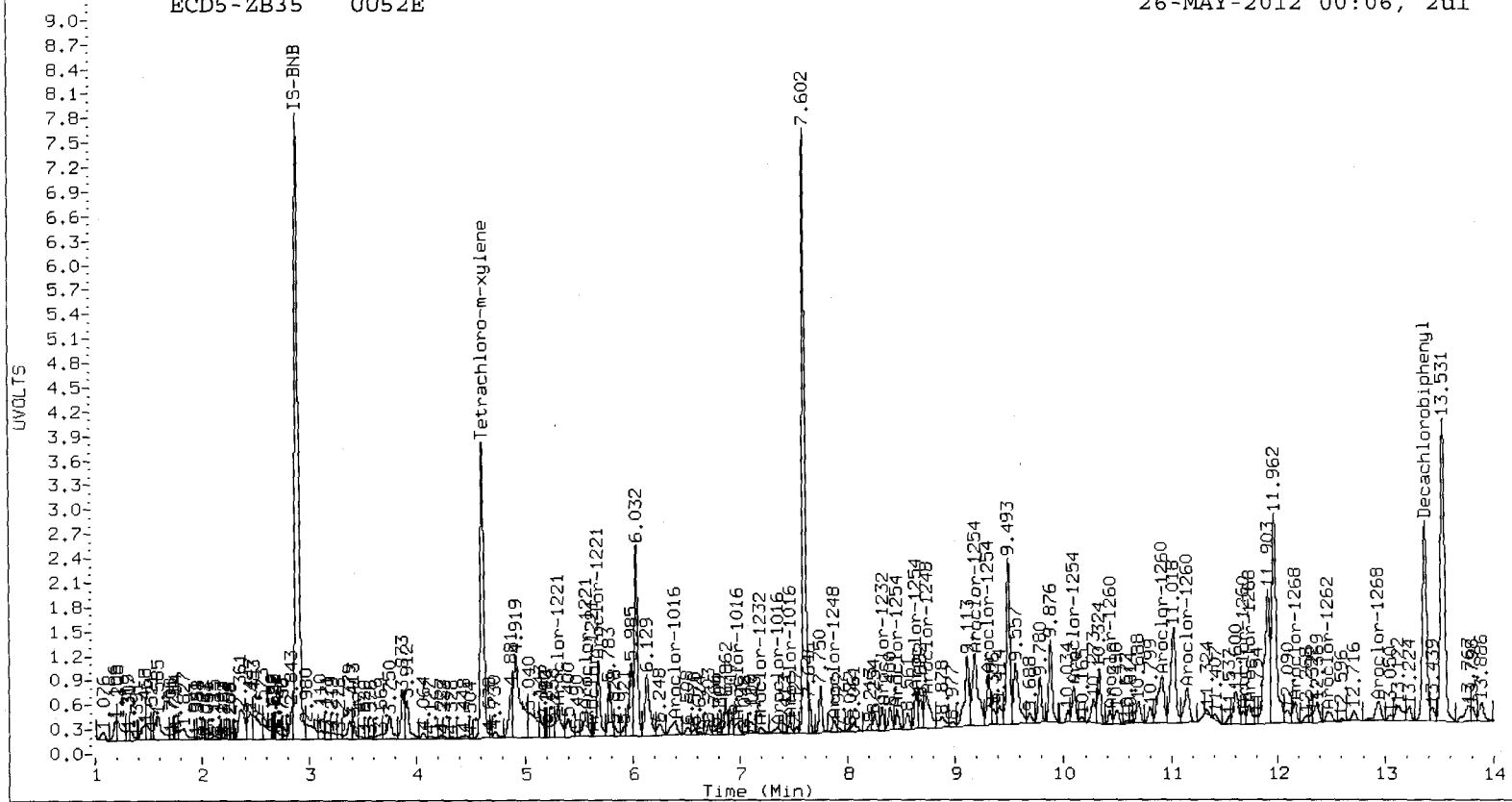
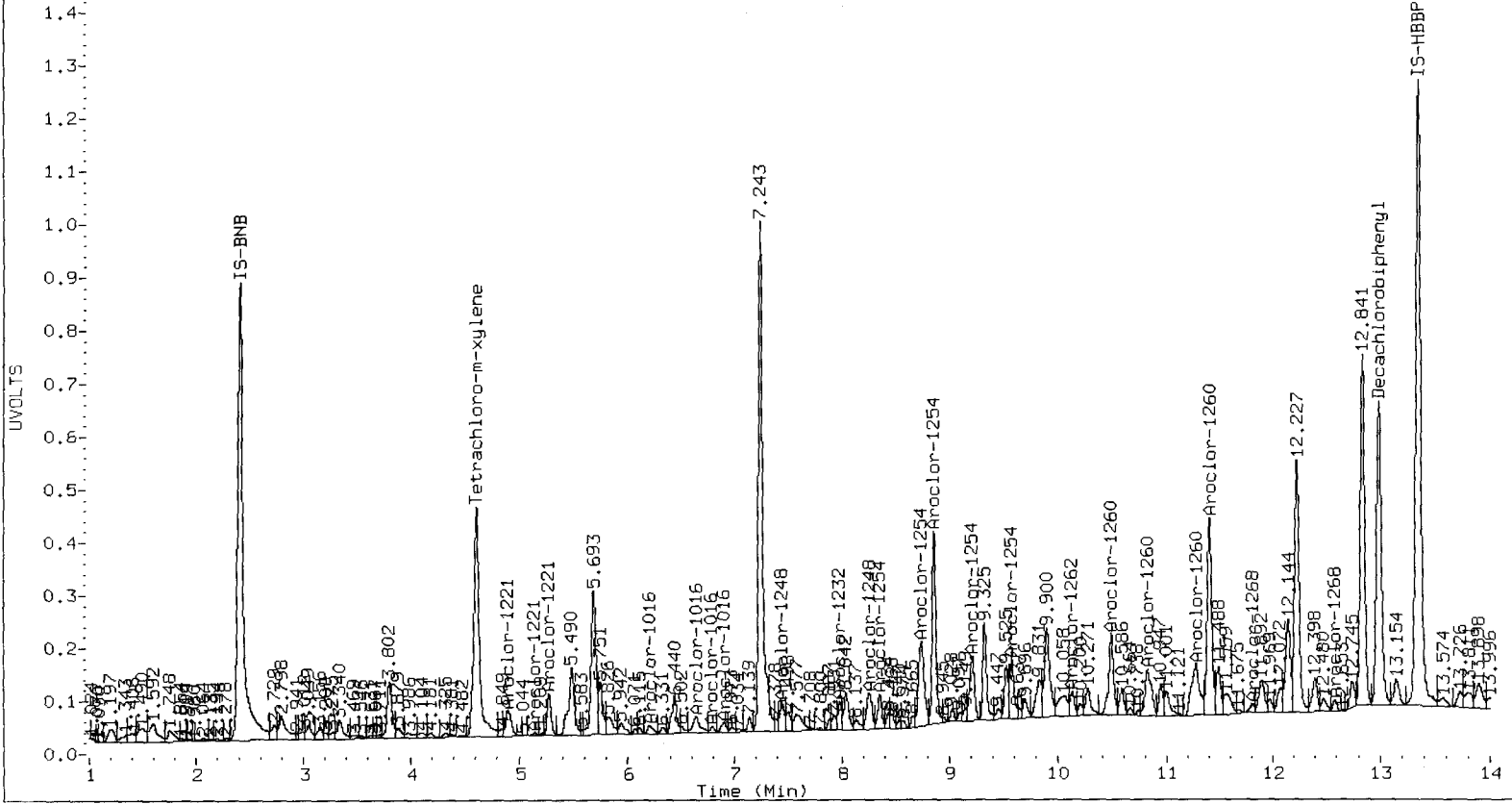
Total PCB Area Col1 (4.710 - 12.891) = 1038016811 Col1 Total PCB = 0.6 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 535183858 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

U052:01723



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A052.d
Data file 2: 20120523.b/0525-2.b/0525A052.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52F
Client ID:
Injection Date: 26-MAY-2012 00:25
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.611 | 0.001 | 68059051 | 4.612 | 0.001 | 37772511 | 24.5 | 26.8 | 9.0 | Tetrachloro-m-xylene |
| 12.993 | 0.002 | 97515288 | 13.366 | 0.001 | 34379402 | 33.9 | 34.8 | 2.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 61.2 | 67.0 |
| Decachlorobiphenyl | 84.6 | 87.0 |

mu05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 172898823 | 12.1 |
| Hexabromobiphenyl | 248602423 | 187722287 | -24.5 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 100165112 | -9.4 |
| Hexabromobiphenyl | 108855531 | 76493069 | -29.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|-----------|--------------------------|----------|--------|--------|----------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.209 | -0.033 | 2651168 | 36.8 | 1 | 6.359 | 0.012 | 1595842 | 30.5 | |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 6119289 | 26.0 | 2 | 6.975 | 0.002 | 2341539 | 19.7 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 1235717 | 13.3 | 3 | 7.355 | -0.001 | 605046 | 19.8 | |
| Aroclor-1016 | 4 | 6.899 | -0.002 | 2676942 | 36.6 | 4 | 7.462 | -0.001 | 1609607 | 47.3 | |
| Total CollAve (4 peaks): | | | | 28.2 | Total Col2Ave (4 peaks): | | | | 29.3 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 25.3 | Corrected Ave (3 peaks): | | | | 23.3 | RPD = 8 | |
| Aroclor-1221 | 1 | 4.897 | 0.013 | 8921879 | 688.4 | 1 | 5.307 | 0.018 | 4939928 | 312.9 | |
| Aroclor-1221 | 2 | 5.147 | -0.006 | 995050 | 47.7 | 2 | 5.568 | 0.032 | 8992888 | 964.3 | |
| Aroclor-1221 | 3 | 5.277 | 0.018 | 7319798 | 107.1 | 3 | 5.678 | 0.029 | 6634913 | 227.5 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.730 | 0.013 | 733500 | 137.3 | |
| Total CollAve (3 peaks): | | | | 281.0 | Total Col2Ave (4 peaks): | | | | 410.5 | RPD = 37 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 225.9 | | |
| Aroclor-1232 | 1 | 6.209 | -0.030 | 2651168 | 88.0 | 1 | 6.359 | 0.014 | 1595842 | 66.2 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 6119289 | 61.1 | 2 | 6.975 | 0.004 | 2341539 | 46.4 | |
| Aroclor-1232 | 3 | 6.790 | 0.003 | 1235717 | 30.4 | 3 | 7.188 | 0.008 | 1338697 | 78.6 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 6069771 | 155.5 | 4 | 8.327 | 0.001 | 2671013 | 142.9 | |
| Total CollAve (4 peaks): | | | | 83.8 | Total Col2Ave (4 peaks): | | | | 83.5 | RPD = 0 | |
| Corrected Ave (3 peaks): | | | | 59.8 | Corrected Ave (3 peaks): | | | | 63.7 | RPD = 6 | |
| Aroclor-1242 | 1 | 6.209 | -0.034 | 2651168 | 48.7 | 1 | 6.359 | 0.012 | 1595842 | 39.0 | |
| Aroclor-1242 | 2 | 6.642 | 0.000 | 6119289 | 33.7 | 2 | 6.975 | 0.001 | 2341539 | 25.2 | |
| Aroclor-1242 | 3 | 6.790 | 0.000 | 1235717 | 17.1 | 3 | 7.188 | 0.005 | 1338697 | 35.5 | |
| Aroclor-1242 | 4 | 7.983 | 0.000 | 6069771 | 90.0 | 4 | 8.327 | 0.000 | 2671013 | 81.5 | |
| Total CollAve (4 peaks): | | | | 47.4 | Total Col2Ave (4 peaks): | | | | 45.3 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 33.2 | Corrected Ave (3 peaks): | | | | 33.3 | RPD = 0 | |
| Aroclor-1248 | 1 | 6.642 | 0.002 | 6119289 | 50.4 | 1 | 6.975 | 0.004 | 2341539 | 38.9 | |
| Aroclor-1248 | 2 | 7.439 | 0.000 | 4440634 | 48.4 | 2 | 7.878 | 0.003 | 4264686 | 88.5 | |
| Aroclor-1248 | 3 | 7.983 | 0.000 | 6069771 | 51.7 | 3 | 8.327 | 0.000 | 2671013 | 46.1 | |
| Aroclor-1248 | 4 | 8.268 | -0.006 | 9088121 | 76.7 | 4 | 8.740 | -0.007 | 8742323 | 133.7 | |
| Total CollAve (4 peaks): | | | | 56.8 | Total Col2Ave (4 peaks): | | | | 76.8 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 50.2 | Corrected Ave (3 peaks): | | | | 57.8 | RPD = 14 | |
| Aroclor-1254 | 1 | 8.356 | 0.000 | 9399732 | 59.2 | 1 | 8.466 | 0.000 | 2650541 | 60.3 | |
| Aroclor-1254 | 2 | 8.751 | 0.024 | 23947071 | 234.4 | 2 | 8.641 | 0.002 | 6338355 | 113.4 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 37634904 | 190.8 | 3 | 9.177 | 0.017 | 10043040 | 235.1 | |
| Aroclor-1254 | 4 | 9.210 | -0.002 | 25220730 | 118.8 | 4 | 9.310 | 0.000 | 8276277 | 87.6 | |
| Aroclor-1254 | 5 | 9.575 | 0.001 | 17900620 | 135.5 | 5 | 10.090 | -0.002 | 4962460 | 89.6 | |
| Total CollAve (5 peaks): | | | | 147.7 | Total Col2Ave (5 peaks): | | | | 112.2 | RPD = 23 | |
| Corrected Ave (4 peaks): | | | | 126.1 | Corrected Ave (4 peaks): | | | | 87.7 | RPD = 36 | |
| Aroclor-1260 | 1 | 10.445 | -0.002 | 4715305 | 46.3 | 1 | 10.422 | 0.001 | 1837795 | 41.9 | |
| Aroclor-1260 | 2 | 10.821 | 0.001 | 14688628 | 58.1 | 2 | 10.872 | 0.000 | 3476060 | 63.8 | |
| Aroclor-1260 | 3 | 11.226 | 0.005 | 4794518 | 34.1 | 3 | 11.146 | 0.001 | 5150054 | 46.6 | |
| Aroclor-1260 | 4 | 11.336 | 0.000 | 3742612 | 62.1 | 4 | 11.672 | 0.006 | 2296347 | 71.1 | |
| Aroclor-1260 | 5 | 11.409 | -0.002 | 109515372 | 1520.8 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 344.3 | Total Col2Ave (4 peaks): | | | | 55.8 | RPD = 144* | |
| Corrected Ave (4 peaks): | | | | 59.1 | Corrected Ave (3 peaks): | | | | 150.8 | RPD = 1 | |
| Aroclor-1262 | 1 | 10.128 | 0.000 | 6173615 | 41.3 | 1 | 10.422 | 0.003 | 1837795 | 25.7 | |
| Aroclor-1262 | 2 | 10.445 | 0.001 | 4715305 | 41.2 | 2 | 10.872 | 0.002 | 3476060 | 56.2 | |
| Aroclor-1262 | 3 | 10.821 | 0.003 | 14688628 | 47.0 | 3 | 11.146 | 0.004 | 5150054 | 36.7 | |
| Aroclor-1262 | 4 | 11.336 | 0.002 | 3742612 | 32.8 | 4 | 11.672 | 0.008 | 2296347 | 40.7 | |
| Aroclor-1262 | 5 | 11.409 | 0.001 | 109515372 | 843.5 | 5 | 12.476 | 0.013 | 2605889 | 49.6 | |
| Total CollAve (5 peaks): | | | | 201.2 | Total Col2Ave (5 peaks): | | | | 41.8 | RPD = 131* | |
| Corrected Ave (4 peaks): | | | | 40.6 | Corrected Ave (4 peaks): | | | | 38.1 | RPD = 6 | |
| Aroclor-1268 | 1 | 11.336 | 0.001 | 3742612 | 11.7 | 1 | 11.672 | 0.008 | 2296347 | 15.7 | |
| Aroclor-1268 | 2 | 11.409 | 0.002 | 109515372 | 340.8 | 2 | 11.726 | -0.004 | 4828205 | 35.1 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|-------|------------|------|
| Aroclor-1268 3 | 11.807 | 0.014 | 3275901 | 12.2 | 3 | 12.134 | 0.007 | 2579424 | 22.3 |
| Aroclor-1268 4 | 12.587 | 0.002 | 4229778 | 5.4 | 4 | 12.953 | 0.004 | 1958166 | 6.0 |
| Total Col1Ave (4 peaks): | | | 92.5 | Total Col2Ave (4 peaks): | | | 19.8 | RPD = 130* | |
| Corrected Ave (3 peaks): | | | 9.8 | Corrected Ave (3 peaks): | | | 14.7 | RPD = 40* | |

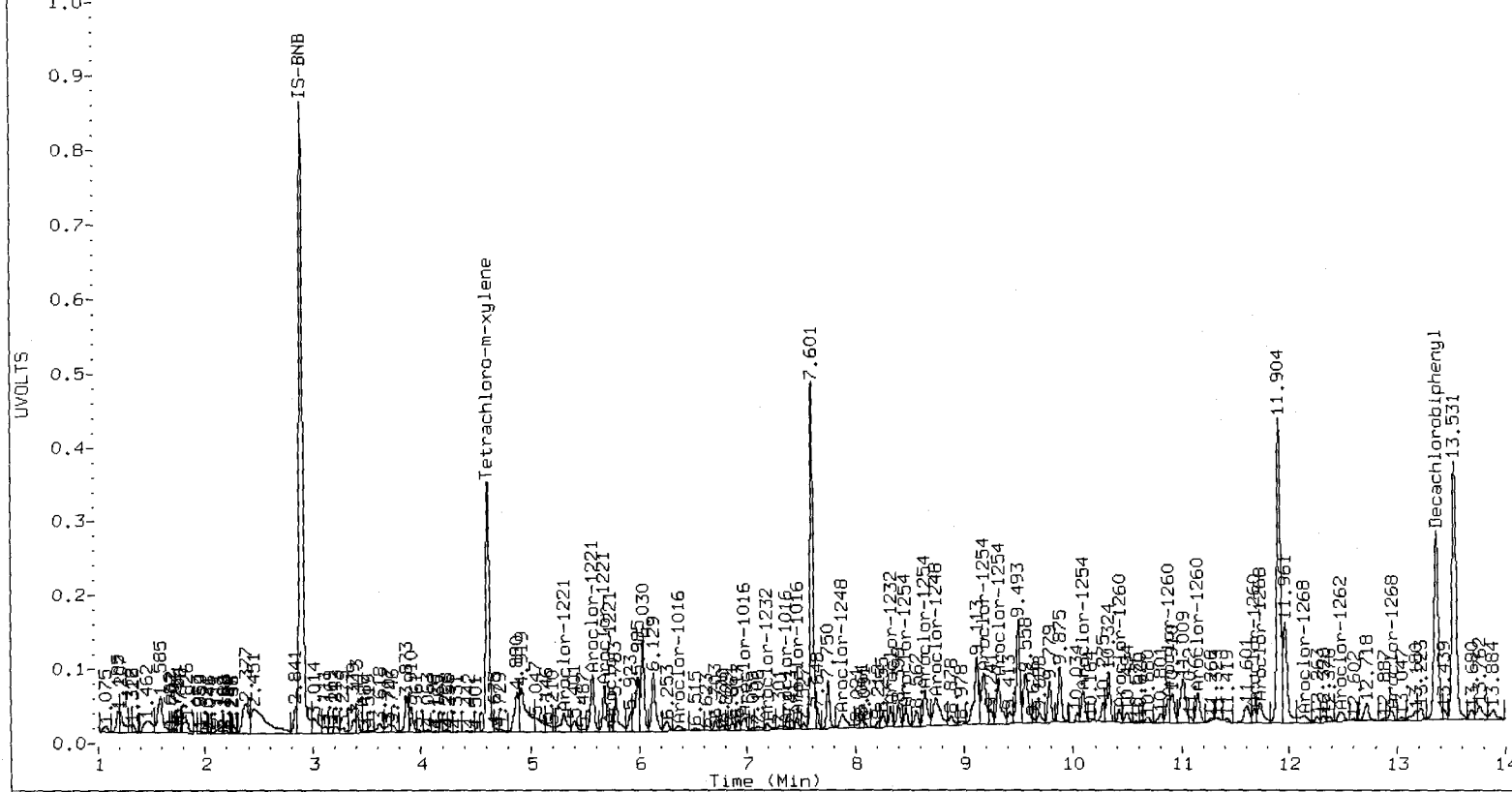
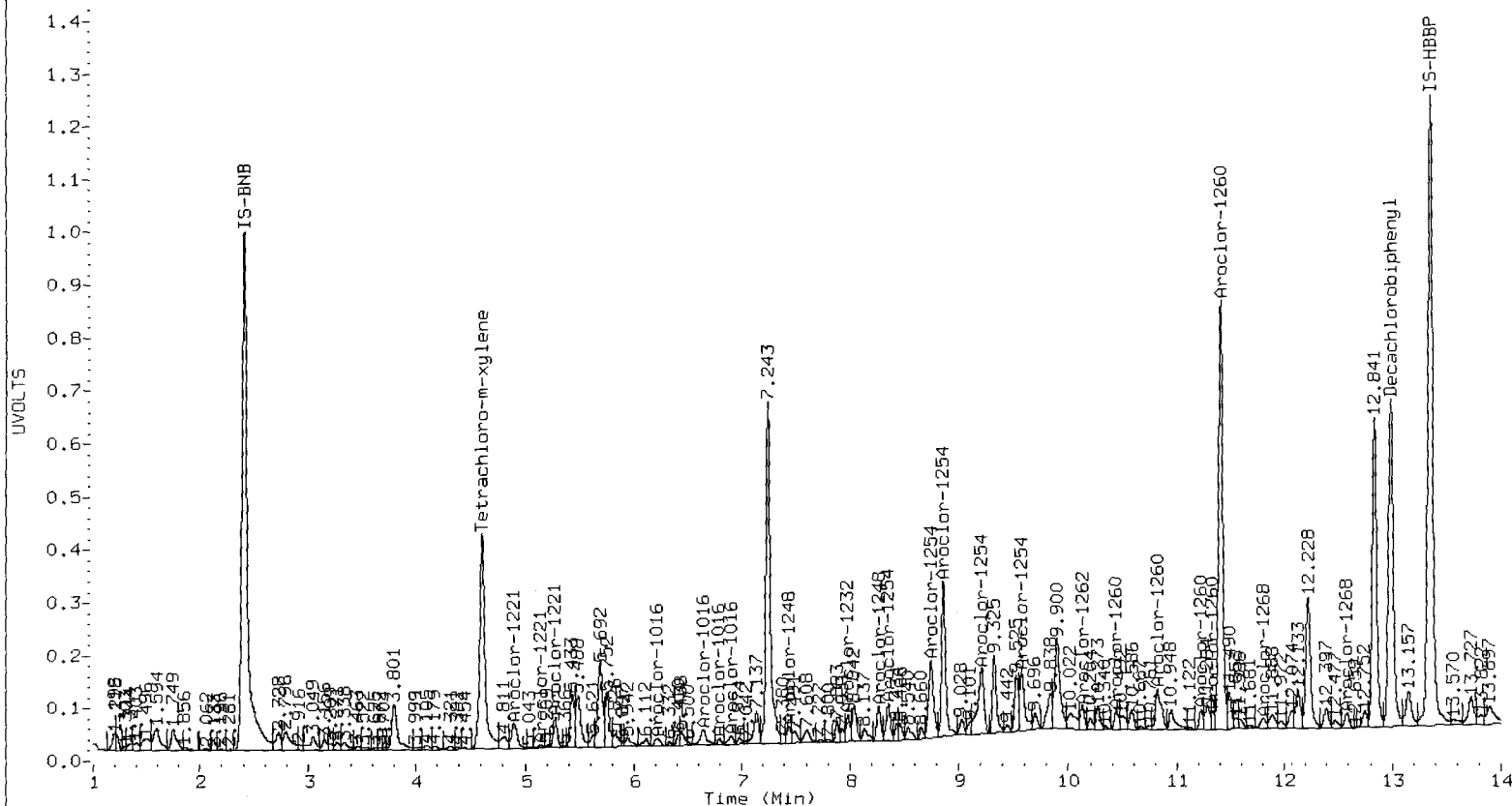
Total PCB Area Col1 (4.710 - 12.891) = 866630705 Col1 Total PCB = 0.4 ppm*

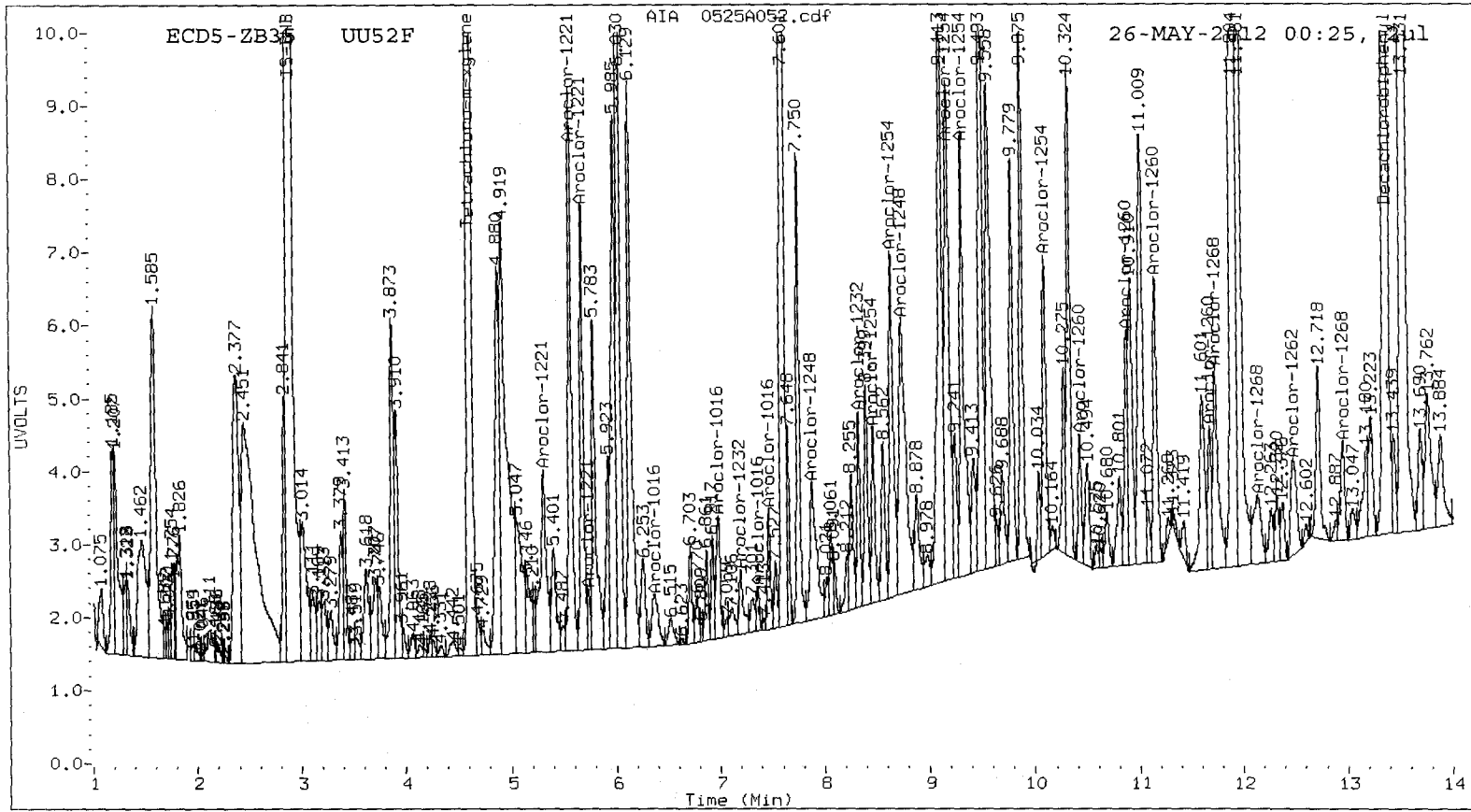
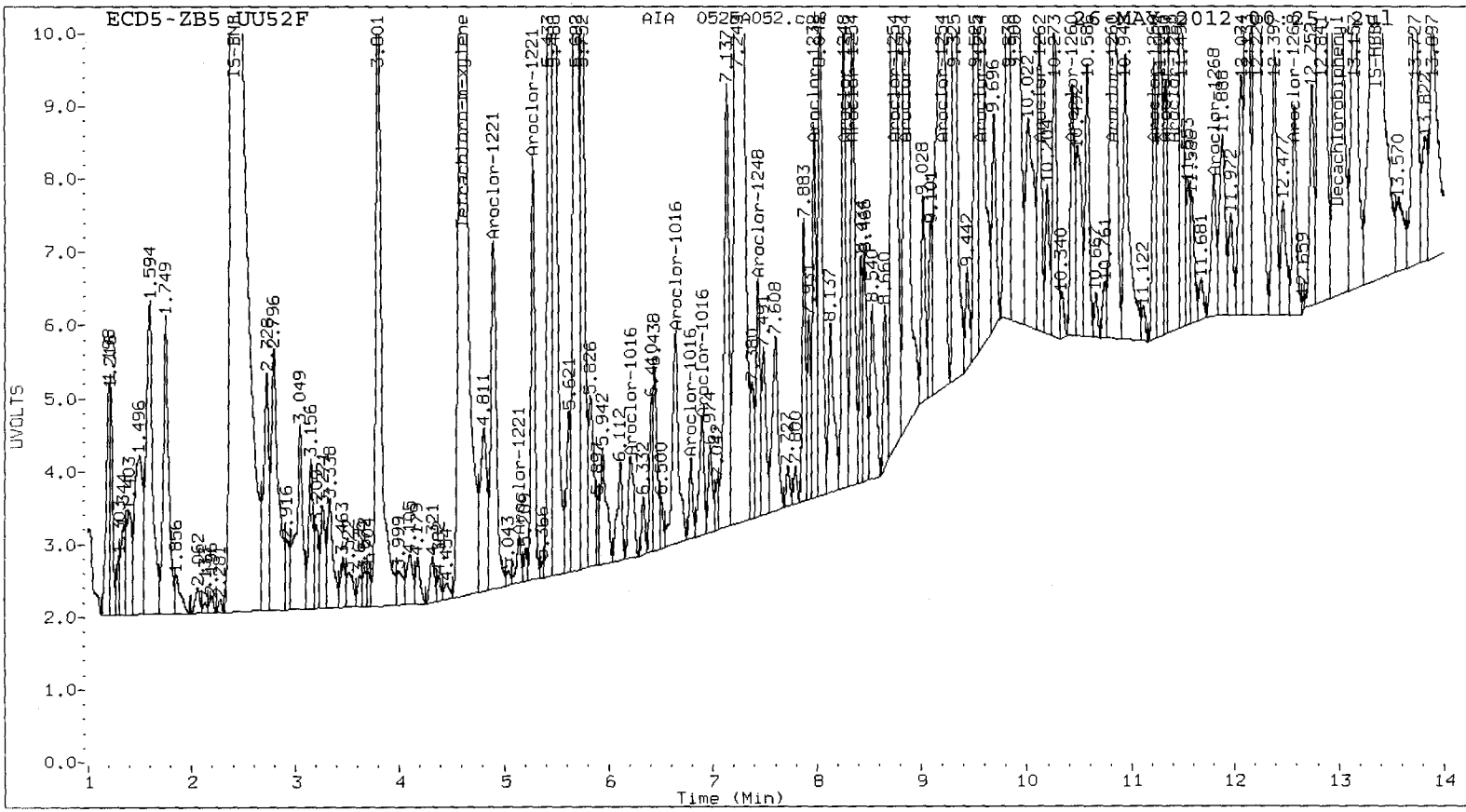
Total PCB Area Col2 (4.711 - 13.265) = 428663004 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01729





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A053.d
Data file 2: 20120523.b/0525-2.b/0525A053.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52G
Client ID:
Injection Date: 26-MAY-2012 00:44
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-----------------|----------|----------------|--------|--------|-----|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.610 | 0.000 93087465 | 4.612 | 0.001 39211581 | 31.0 | 29.3 | 5.6 | Tetrachloro-m-xylene |
| 12.993 | 0.002 107522128 | 13.366 | 0.001 37189907 | 37.1 | 35.4 | 4.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 77.6 | 73.4 |
| Decachlorobiphenyl | 92.7 | 88.5 |

J 05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 186718284 | 21.1 |
| Hexabromobiphenyl | 248602423 | 189013662 | -24.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 94995771 | -14.1 |
| Hexabromobiphenyl | 108855531 | 81349843 | -25.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|--------|------------------|-------------------|--------------------------|--------|--------|----------|-----------------------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 6.232 | -0.009 | 1675746 | 21.5 | 1 | 6.354 | 0.006 | 2563329 | 51.7 |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 10357365 | 40.8 | 2 | 6.978 | 0.004 | 3993735 | 35.5 |
| Aroclor-1016 | 3 | 6.793 | 0.003 | 1884425 | 18.8 | 3 | 7.351 | -0.005 | 1453609 | 50.1 |
| Aroclor-1016 | 4 | 6.895 | -0.005 | 3501808 | 44.4 | 4 | 7.462 | -0.001 | 3490080 | 108.1 |
| Total CollAve (4 peaks): | | | | 31.4 | | Total Col2Ave (4 peaks): | | | | 61.3 RPD = 65* |
| Corrected Ave (3 peaks): | | | | 27.0 | | Corrected Ave (3 peaks): | | | | 45.7 RPD = 51* |
| Aroclor-1221 | 1 | 4.911 | 0.027 | 11871102 | 848.1 | 1 | 5.306 | 0.016 | 8488308 | 567.0 |
| Aroclor-1221 | 2 | 5.147 | -0.006 | 1030741 | 45.7 | 2 | 5.567 | 0.031 | 5909639 | 668.2 |
| Aroclor-1221 | 3 | 5.277 | 0.019 | 44755608 | 606.2 | 3 | 5.677 | 0.028 | 12407307 | 448.5 |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 |
| Total CollAve (3 peaks): | | | | 500.0 | | Total Col2Ave (3 peaks): | | | | 561.2 RPD = 12 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1232 | 1 | 6.232 | -0.006 | 1675746 | 51.5 | 1 | 6.354 | 0.008 | 2563329 | 112.0 |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 10357365 | 95.7 | 2 | 6.978 | 0.007 | 3993735 | 83.4 |
| Aroclor-1232 | 3 | 6.793 | 0.005 | 1884425 | 42.9 | 3 | 7.191 | 0.012 | 2714966 | 168.0 |
| Aroclor-1232 | 4 | 7.983 | 0.002 | 9067374 | 215.2 | 4 | 8.326 | 0.001 | 3971257 | 224.1 |
| Total CollAve (4 peaks): | | | | 101.3 | | Total Col2Ave (4 peaks): | | | | 146.9 RPD = 37 |
| Corrected Ave (3 peaks): | | | | 63.4 | | Corrected Ave (3 peaks): | | | | 121.1 RPD = 63* |
| Aroclor-1242 | 1 | 6.232 | -0.010 | 1675746 | 28.5 | 1 | 6.354 | 0.006 | 2563329 | 66.1 |
| Aroclor-1242 | 2 | 6.642 | 0.000 | 10357365 | 52.9 | 2 | 6.978 | 0.004 | 3993735 | 45.4 |
| Aroclor-1242 | 3 | 6.793 | 0.002 | 1884425 | 24.1 | 3 | 7.191 | 0.009 | 2714966 | 75.9 |
| Aroclor-1242 | 4 | 7.983 | -0.001 | 9067374 | 124.5 | 4 | 8.326 | -0.001 | 3971257 | 127.7 |
| Total CollAve (4 peaks): | | | | 57.5 | | Total Col2Ave (4 peaks): | | | | 78.8 RPD = 31 |
| Corrected Ave (3 peaks): | | | | 35.2 | | Corrected Ave (3 peaks): | | | | 62.5 RPD = 56* |
| Aroclor-1248 | 1 | 6.642 | 0.002 | 10357365 | 79.0 | 1 | 6.978 | 0.007 | 3993735 | 70.0 |
| Aroclor-1248 | 2 | 7.437 | -0.001 | 5500691 | 55.5 | 2 | 7.875 | 0.000 | 4176825 | 91.4 |
| Aroclor-1248 | 3 | 7.983 | -0.001 | 9067374 | 71.5 | 3 | 8.326 | -0.001 | 3971257 | 72.3 |
| Aroclor-1248 | 4 | 8.266 | -0.008 | 19299195 | 150.8 | 4 | 8.737 | -0.010 | 8033654 | 129.5 |
| Total CollAve (4 peaks): | | | | 89.2 | | Total Col2Ave (4 peaks): | | | | 90.8 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 68.7 | | Corrected Ave (3 peaks): | | | | 77.9 RPD = 13 |
| Aroclor-1254 | 1 | 8.355 | -0.001 | 16778756 | 97.9 | 1 | 8.466 | -0.001 | 4268875 | 102.4 |
| Aroclor-1254 | 2 | 8.752 | 0.024 | 44726557 | 405.4 | 2 | 8.638 | 0.000 | 9637529 | 181.8 |
| Aroclor-1254 | 3 | 8.865 | 0.001 | 46722574 | 219.3 | 3 | 9.178 | 0.019 | 13219739 | 326.4 |
| Aroclor-1254 | 4 | 9.211 | -0.002 | 25403909 | 110.8 | 4 | 9.310 | 0.000 | 8828375 | 98.5 |
| Aroclor-1254 | 5 | 9.577 | 0.003 | 16015896 | 112.3 | 5 | 10.091 | -0.001 | 6593844 | 125.6 |
| Total CollAve (5 peaks): | | | | 189.7 | | Total Col2Ave (5 peaks): | | | | 166.9 RPD = 12 |
| Corrected Ave (4 peaks): | | | | 135.7 | | Corrected Ave (4 peaks): | | | | 127.1 RPD = 6 |
| Aroclor-1260 | 1 | 10.444 | -0.003 | 6729811 | 65.6 | 1 | 10.422 | 0.000 | 2813294 | 60.3 |
| Aroclor-1260 | 2 | 10.821 | 0.000 | 14894880 | 58.5 | 2 | 10.868 | -0.004 | 8879327 | 153.3 |
| Aroclor-1260 | 3 | 11.240 | 0.019 | 9123936 | 64.5 | 3 | 11.148 | 0.003 | 9139719 | 77.7 |
| Aroclor-1260 | 4 | 11.335 | -0.002 | 5718643 | 94.2 | 4 | 11.672 | 0.006 | 3817099 | 111.1 |
| Aroclor-1260 | 5 | 11.408 | -0.003 | 107281210 | 1279.6 | NS | --- | --- | --- | --- |
| Total CollAve (5 peaks): | | | | 352.5 | | Total Col2Ave (4 peaks): | | | | 400.6 RPD = 111* |
| Corrected Ave (4 peaks): | | | | 70.9 | | Corrected Ave (3 peaks): | | | | 103.0 RPD = 16 |
| Aroclor-1262 | 1 | 10.127 | 0.000 | 10858475 | 72.1 | 1 | 10.422 | 0.003 | 2813294 | 36.9 |
| Aroclor-1262 | 2 | 10.444 | -0.001 | 6729811 | 58.5 | 2 | 10.868 | -0.002 | 8879327 | 135.1 |
| Aroclor-1262 | 3 | 10.821 | 0.003 | 14894880 | 47.3 | 3 | 11.148 | 0.006 | 9139719 | 61.2 |
| Aroclor-1262 | 4 | 11.335 | 0.001 | 5718643 | 49.7 | 4 | 11.672 | 0.008 | 3817099 | 63.6 |
| Aroclor-1262 | 5 | 11.408 | 0.000 | 107281210 | 820.7 | 5 | 12.469 | 0.006 | 3751236 | 67.1 |
| Total CollAve (5 peaks): | | | | 209.7 | | Total Col2Ave (5 peaks): | | | | 72.8 RPD = 97* |
| Corrected Ave (4 peaks): | | | | 56.9 | | Corrected Ave (4 peaks): | | | | 57.2 RPD = 1 |
| Aroclor-1268 | 1 | 11.335 | -0.001 | 5718643 | 17.8 | 1 | 11.672 | 0.008 | 3817099 | 24.6 |
| Aroclor-1268 | 2 | 11.408 | 0.001 | 107281210 | 331.5 | 2 | 11.728 | -0.002 | 6788213 | 46.4 |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|-------|------------|------|
| Aroclor-1268 3 | 11.804 | 0.012 | 4019807 | 14.9 | 3 | 12.158 | 0.030 | 4299864 | 35.0 |
| Aroclor-1268 4 | 12.586 | 0.001 | 6557270 | 8.3 | 4 | 12.953 | 0.004 | 2736616 | 7.9 |
| Total Col1Ave (4 peaks): | | 93.1 | | Total Col2Ave (4 peaks): | | 28.5 | | RPD = 106* | |
| Corrected Ave (3 peaks): | | 13.6 | | Corrected Ave (3 peaks): | | 22.5 | | RPD = 49* | |

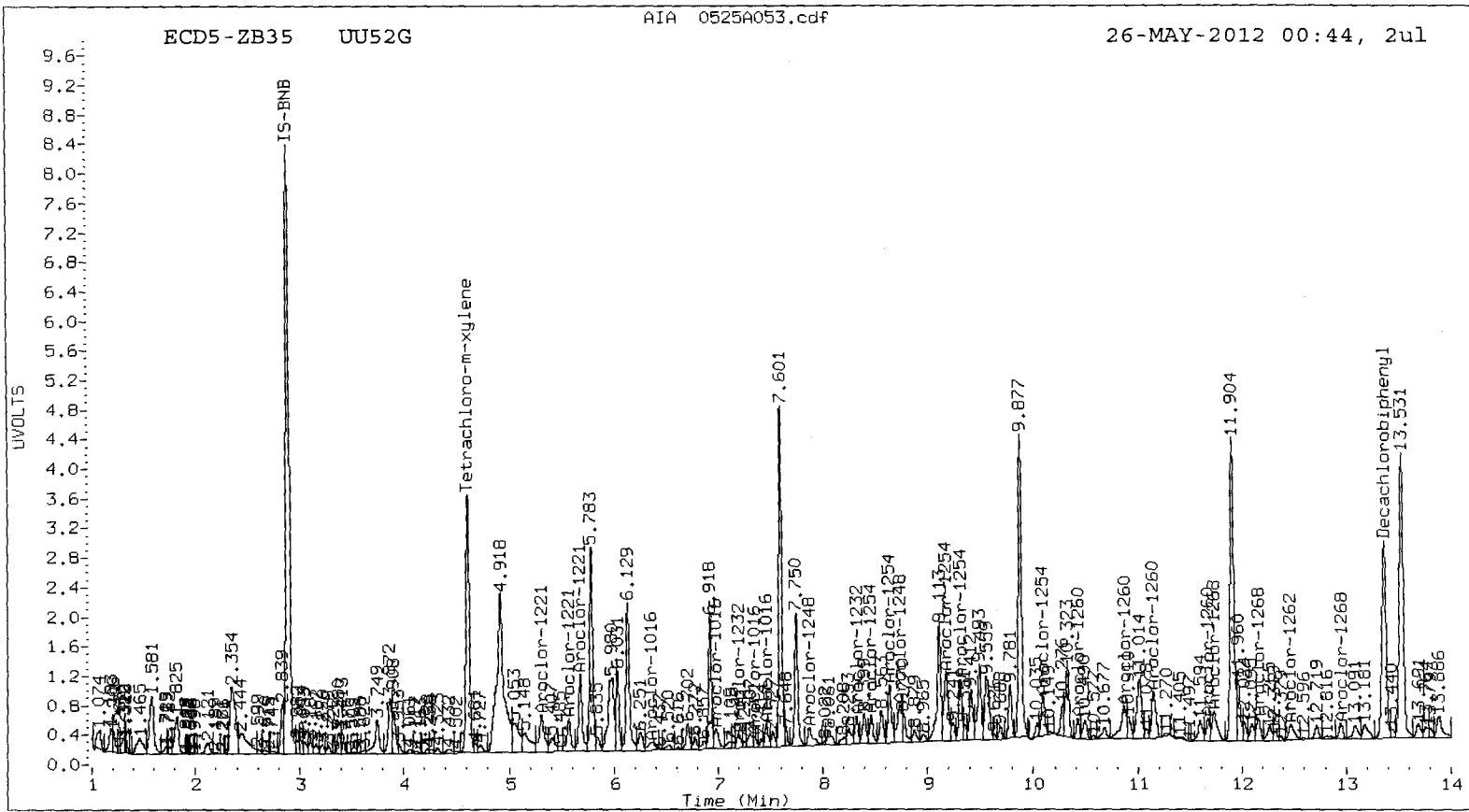
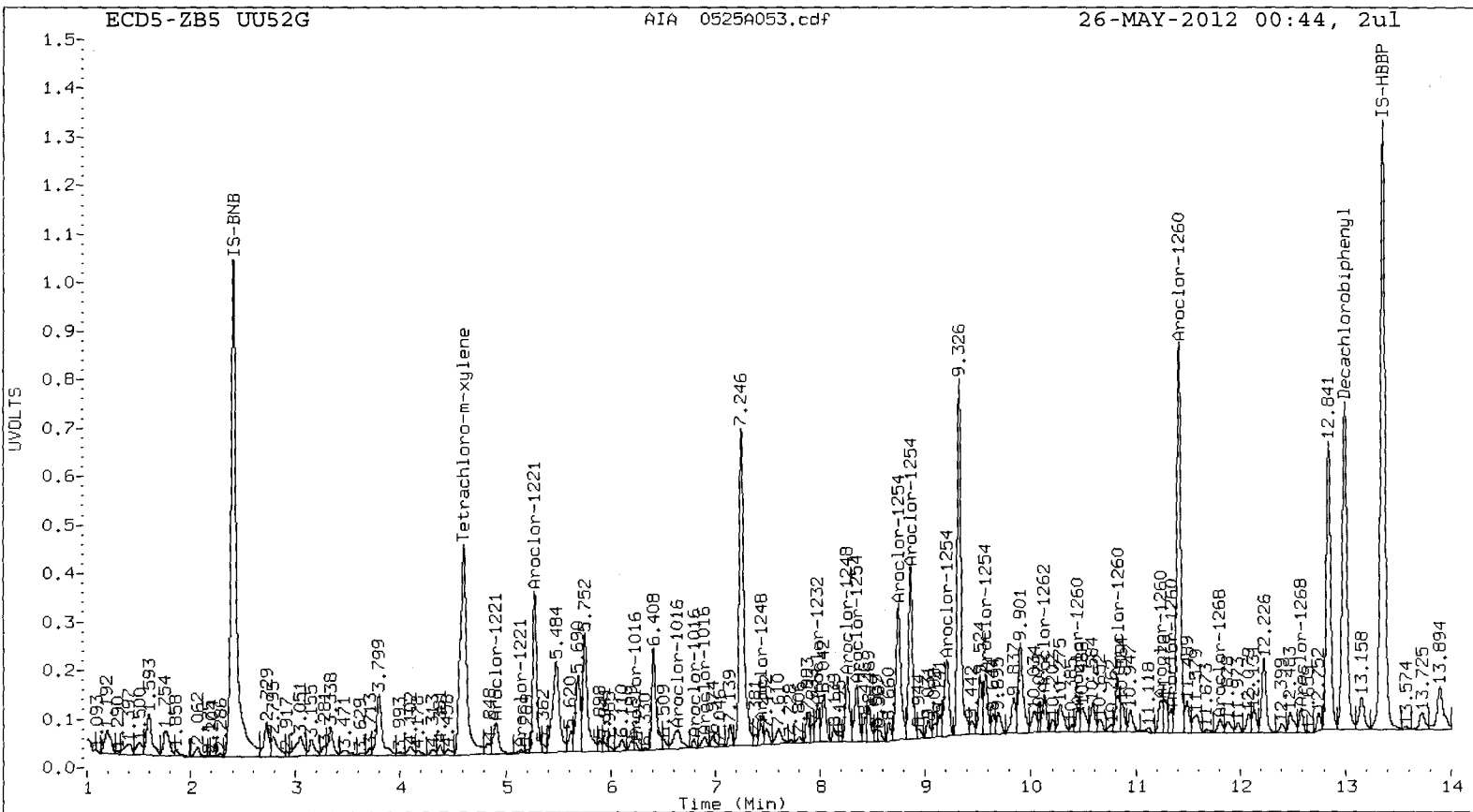
Total PCB Area Col1 (4.710 - 12.891) = 1178997654 Col1 Total PCB = 0.5 ppm*

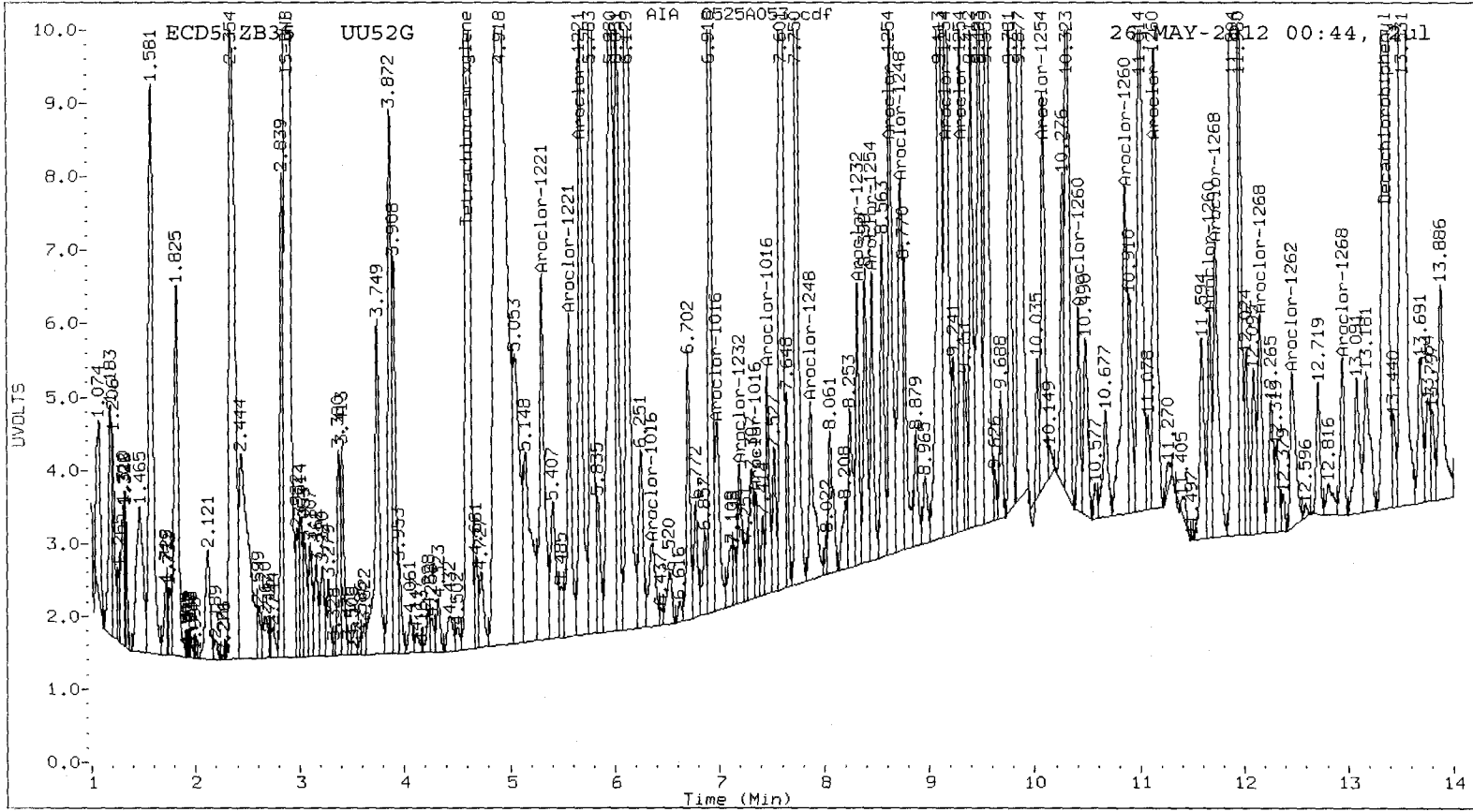
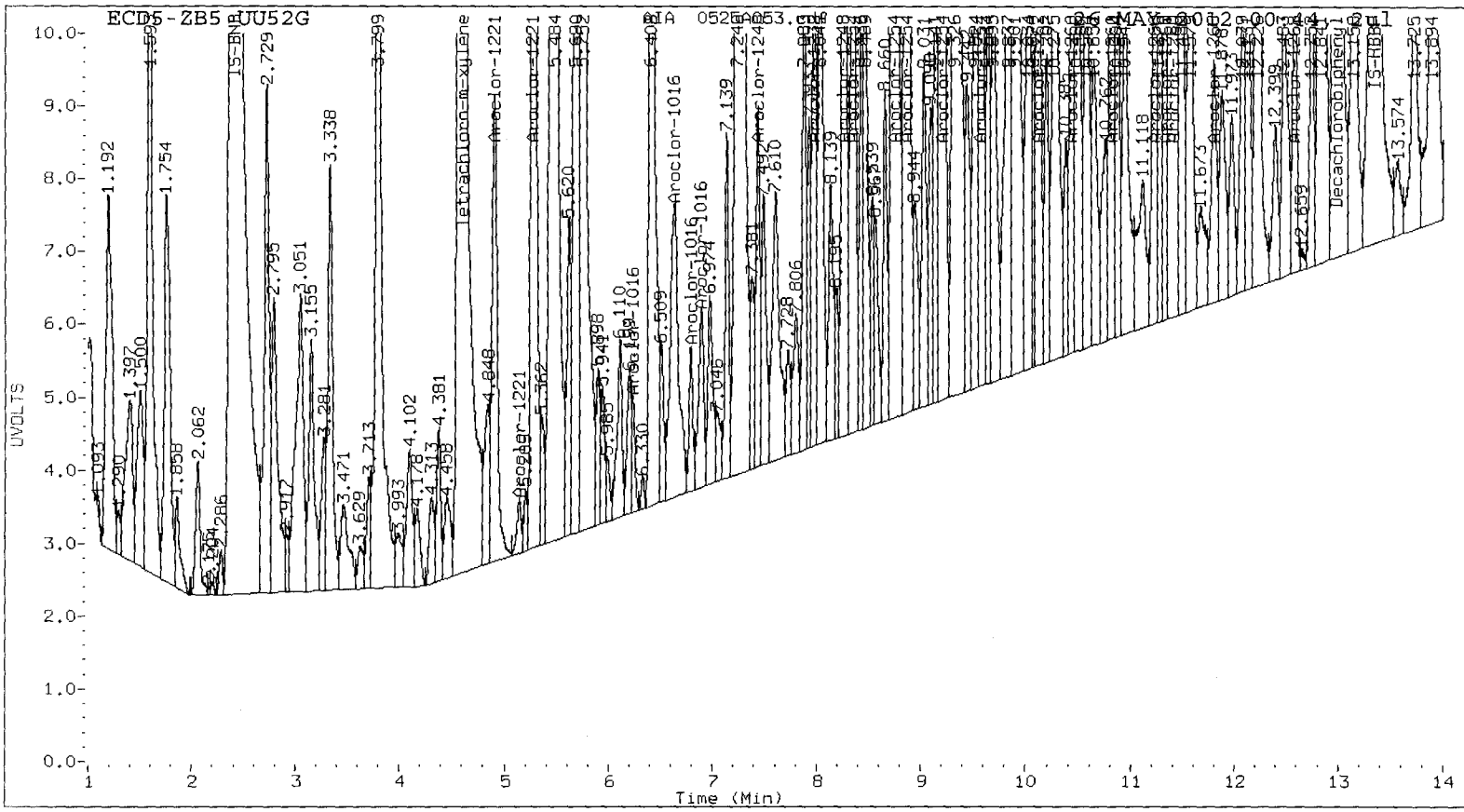
Total PCB Area Col2 (4.711 - 13.265) = 665267709 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01735





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A056.d
Data file 2: 20120523.b/0525-2.b/0525A056.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52H
Client ID:
Injection Date: 26-MAY-2012 01:41
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.611 | 0.001 76848228 | 4.613 | 0.002 40481713 | 27.7 | 27.7 | 0.1 | Tetrachloro-m-xylene |
| 12.993 | 0.002 93683612 | 13.365 | 0.000 35883828 | 29.0 | 32.6 | 11.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 69.2 | 69.3 |
| Decachlorobiphenyl | 72.4 | 81.4 |

705/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 172760776 | 12.0 |
| Hexabromobiphenyl | 248602423 | 210736401 | -15.2 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 103821331 | -6.1 |
| Hexabromobiphenyl | 108855531 | 85307879 | -21.6 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|-----------|--------------------------|----------|--------|--------|----------|-----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.237 | -0.004 | 2204955 | 30.6 | 1 | 6.366 | 0.018 | 1970825 | 36.4 | |
| Aroclor-1016 | 2 | 6.639 | -0.003 | 9538016 | 40.6 | 2 | 6.973 | 0.000 | 3209899 | 26.1 | |
| Aroclor-1016 | 3 | 6.787 | -0.003 | 1885286 | 20.3 | 3 | 7.355 | -0.001 | 1013487 | 31.9 | |
| Aroclor-1016 | 4 | 6.897 | -0.003 | 2682320 | 36.7 | 4 | 7.462 | -0.001 | 2586825 | 73.3 | |
| Total CollAve (4 peaks): | | | | 32.1 | Total Col2Ave (4 peaks): | | | | 41.9 | RPD = 27 | |
| Corrected Ave (3 peaks): | | | | 29.2 | Corrected Ave (3 peaks): | | | | 31.5 | RPD = 7 | |
| Aroclor-1221 | 1 | 4.897 | 0.013 | 8285904 | 639.8 | 1 | 5.308 | 0.018 | 4923636 | 300.9 | |
| Aroclor-1221 | 2 | 5.147 | -0.006 | 898395 | 43.1 | 2 | 5.568 | 0.032 | 6063139 | 627.2 | |
| Aroclor-1221 | 3 | 5.277 | 0.019 | 11249144 | 164.7 | 3 | 5.678 | 0.029 | 7747127 | 256.2 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.728 | 0.010 | 512506 | 92.5 | |
| Total CollAve (3 peaks): | | | | 282.5 | Total Col2Ave (4 peaks): | | | | 319.2 | RPD = 12 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 216.6 | | |
| Aroclor-1232 | 1 | 6.237 | -0.001 | 2204955 | 73.3 | 1 | 6.366 | 0.020 | 1970825 | 78.8 | |
| Aroclor-1232 | 2 | 6.639 | 0.000 | 9538016 | 95.3 | 2 | 6.973 | 0.002 | 3209899 | 61.3 | |
| Aroclor-1232 | 3 | 6.787 | -0.001 | 1885286 | 48.4 | 3 | 7.191 | 0.012 | 2985504 | 169.0 | |
| Aroclor-1232 | 4 | 7.980 | 0.000 | 8323435 | 213.5 | 4 | 8.327 | 0.002 | 4802824 | 248.0 | |
| Total CollAve (4 peaks): | | | | 107.1 | Total Col2Ave (4 peaks): | | | | 139.3 | RPD = 26 | |
| Corrected Ave (3 peaks): | | | | 71.7 | Corrected Ave (3 peaks): | | | | 103.1 | RPD = 36 | |
| Aroclor-1242 | 1 | 6.237 | -0.005 | 2204955 | 40.5 | 1 | 6.366 | 0.018 | 1970825 | 46.5 | |
| Aroclor-1242 | 2 | 6.639 | -0.003 | 9538016 | 52.6 | 2 | 6.973 | -0.001 | 3209899 | 33.4 | |
| Aroclor-1242 | 3 | 6.787 | -0.004 | 1885286 | 26.1 | 3 | 7.191 | 0.009 | 2985504 | 76.4 | |
| Aroclor-1242 | 4 | 7.980 | -0.003 | 8323435 | 123.5 | 4 | 8.327 | 0.000 | 4802824 | 141.3 | |
| Total CollAve (4 peaks): | | | | 60.7 | Total Col2Ave (4 peaks): | | | | 74.4 | RPD = 20 | |
| Corrected Ave (3 peaks): | | | | 39.7 | Corrected Ave (3 peaks): | | | | 52.1 | RPD = 27 | |
| Aroclor-1248 | 1 | 6.639 | -0.001 | 9538016 | 78.6 | 1 | 6.973 | 0.003 | 3209899 | 51.5 | |
| Aroclor-1248 | 2 | 7.437 | -0.001 | 4782687 | 52.2 | 2 | 7.877 | 0.002 | 4636958 | 92.8 | |
| Aroclor-1248 | 3 | 7.980 | -0.003 | 8323435 | 70.9 | 3 | 8.327 | 0.000 | 4802824 | 80.0 | |
| Aroclor-1248 | 4 | 8.263 | -0.010 | 32108907 | 271.1 | 4 | 8.776 | 0.029 | 21999216 | 224.5 | |
| Total CollAve (4 peaks): | | | | 118.2 | Total Col2Ave (4 peaks): | | | | 137.2 | RPD = 15 | |
| Corrected Ave (3 peaks): | | | | 67.2 | Corrected Ave (3 peaks): | | | | 74.8 | RPD = 11 | |
| Aroclor-1254 | 1 | 8.353 | -0.004 | 22462865 | 141.6 | 1 | 8.467 | 0.001 | 4546361 | 99.7 | |
| Aroclor-1254 | 2 | 8.753 | 0.025 | 104920309 | 1027.9 | 2 | 8.659 | 0.020 | 26432236 | 456.2 | |
| Aroclor-1254 | 3 | 8.864 | 0.001 | 40171026 | 203.8 | 3 | 9.177 | 0.017 | 9694422 | 219.0 | |
| Aroclor-1254 | 4 | 9.211 | -0.002 | 26935891 | 126.9 | 4 | 9.310 | 0.001 | 12012064 | 122.7 | |
| Aroclor-1254 | 5 | 9.575 | 0.001 | 20346967 | 154.1 | 5 | 10.091 | -0.002 | 10031516 | 174.8 | |
| Total CollAve (5 peaks): | | | | 330.9 | Total Col2Ave (5 peaks): | | | | 214.5 | RPD = 43* | |
| Corrected Ave (4 peaks): | | | | 156.6 | Corrected Ave (4 peaks): | | | | 154.0 | RPD = 2 | |
| Aroclor-1260 | 1 | 10.444 | -0.003 | 4688932 | 41.0 | 1 | 10.422 | 0.000 | 2578305 | 52.7 | |
| Aroclor-1260 | 2 | 10.820 | -0.001 | 19944152 | 70.3 | 2 | 10.869 | -0.003 | 5866206 | 96.6 | |
| Aroclor-1260 | 3 | 11.224 | 0.003 | 7281902 | 46.2 | 3 | 11.145 | 0.000 | 8063299 | 65.4 | |
| Aroclor-1260 | 4 | 11.334 | -0.003 | 5743342 | 84.8 | 4 | 11.668 | 0.002 | 2872207 | 79.8 | |
| Aroclor-1260 | 5 | 11.406 | -0.005 | 45642146 | 564.6 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 161.4 | Total Col2Ave (4 peaks): | | | | 73.6 | RPD = 75* | |
| Corrected Ave (4 peaks): | | | | 70.6 | Corrected Ave (3 peaks): | | | | 65.9 | RPD = 8 | |
| Aroclor-1262 | 1 | 10.128 | 0.000 | 8566258 | 51.0 | 1 | 10.422 | 0.003 | 2578305 | 32.3 | |
| Aroclor-1262 | 2 | 10.444 | 0.000 | 4688932 | 36.5 | 2 | 10.869 | -0.001 | 5866206 | 85.1 | |
| Aroclor-1262 | 3 | 10.820 | 0.001 | 19944152 | 56.9 | 3 | 11.145 | 0.003 | 8063299 | 51.5 | |
| Aroclor-1262 | 4 | 11.334 | 0.000 | 5743342 | 44.8 | 4 | 11.668 | 0.004 | 2872207 | 45.6 | |
| Aroclor-1262 | 5 | 11.406 | -0.002 | 45642146 | 313.2 | 5 | 12.468 | 0.005 | 2978316 | 50.8 | |
| Total CollAve (5 peaks): | | | | 100.5 | Total Col2Ave (5 peaks): | | | | 53.1 | RPD = 62* | |
| Corrected Ave (4 peaks): | | | | 47.3 | Corrected Ave (4 peaks): | | | | 45.1 | RPD = 5 | |
| Aroclor-1268 | 1 | 11.334 | -0.002 | 5743342 | 16.0 | 1 | 11.668 | 0.004 | 2872207 | 17.6 | |
| Aroclor-1268 | 2 | 11.406 | -0.001 | 45642146 | 126.5 | 2 | 11.726 | -0.004 | 6005735 | 39.1 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|--------|---------|-----------|
| Aroclor-1268 3 | 11.806 | 0.014 | 3860941 | 12.8 | 3 | 12.151 | 0.023 | 2629375 | 20.4 |
| Aroclor-1268 4 | 12.586 | 0.001 | 4510240 | 5.1 | 4 | 12.940 | -0.010 | 4956687 | 13.6 |
| Total Col1Ave (4 peaks): | | | 40.1 | Total Col2Ave (4 peaks): | | | | 22.7 | RPD = 55* |
| Corrected Ave (3 peaks): | | | 11.3 | Corrected Ave (3 peaks): | | | | 17.2 | RPD = 41* |

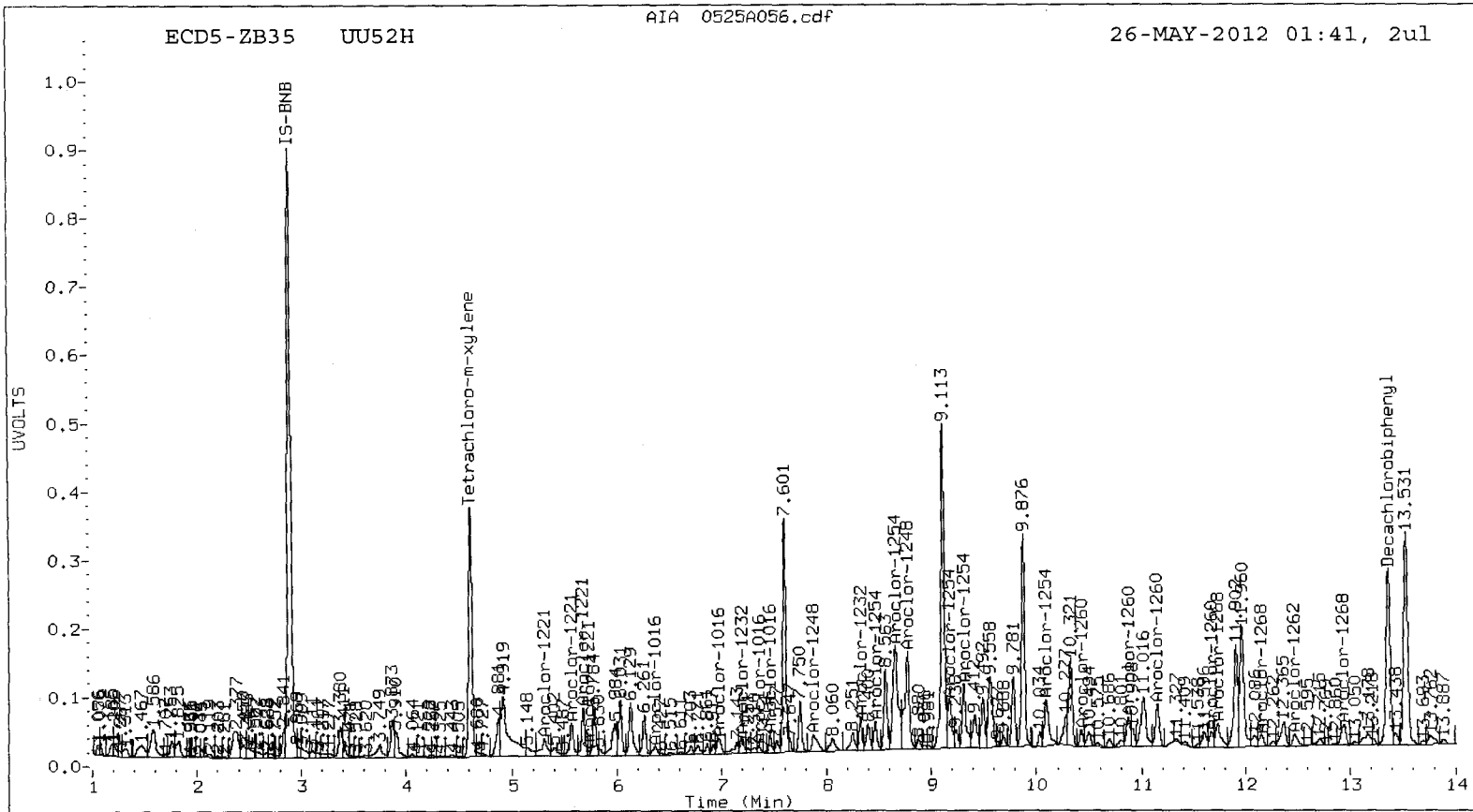
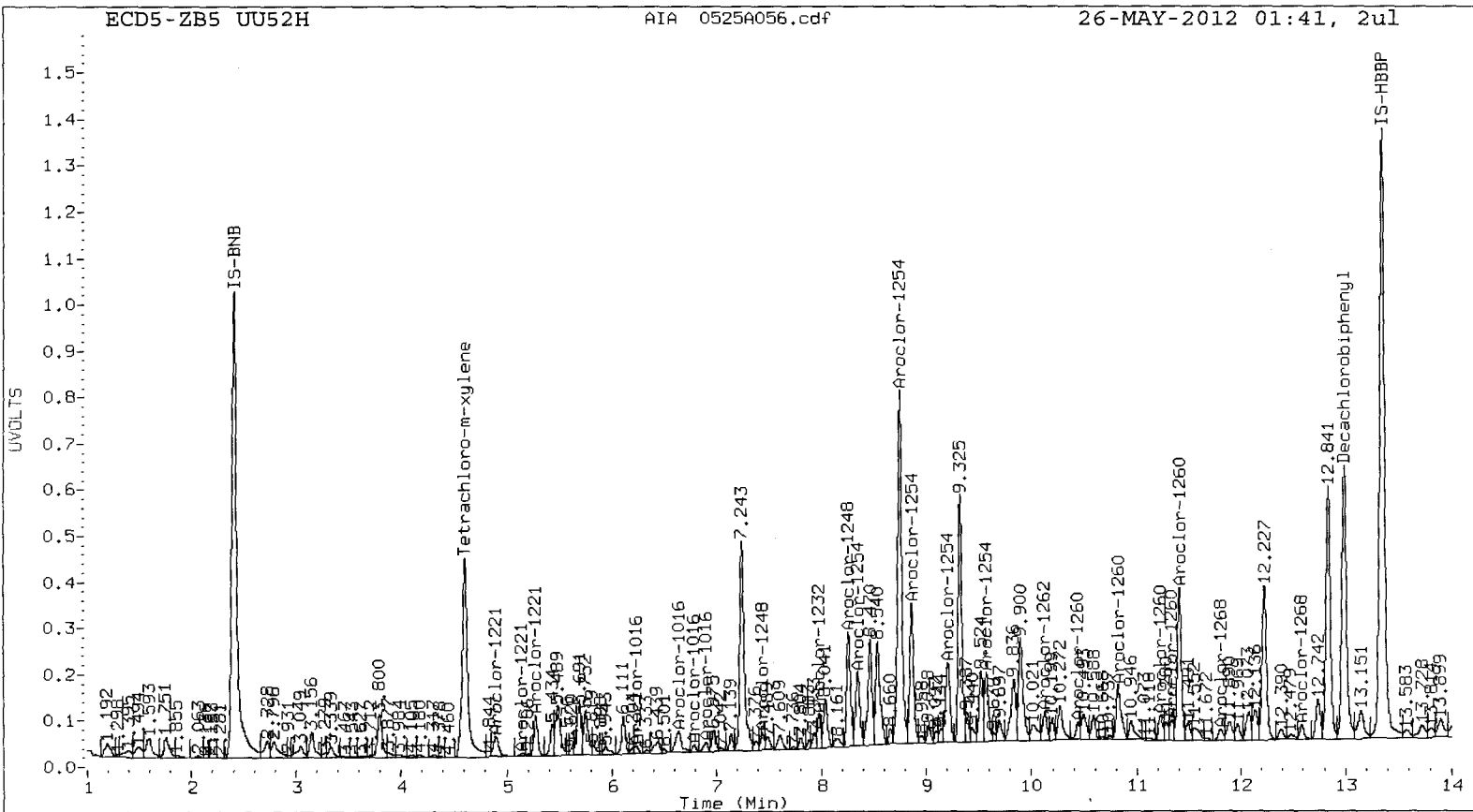
Total PCB Area Col1 (4.710 - 12.891) = 1095196964 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 560954272 Col2 Total PCB = 0.6 ppm*

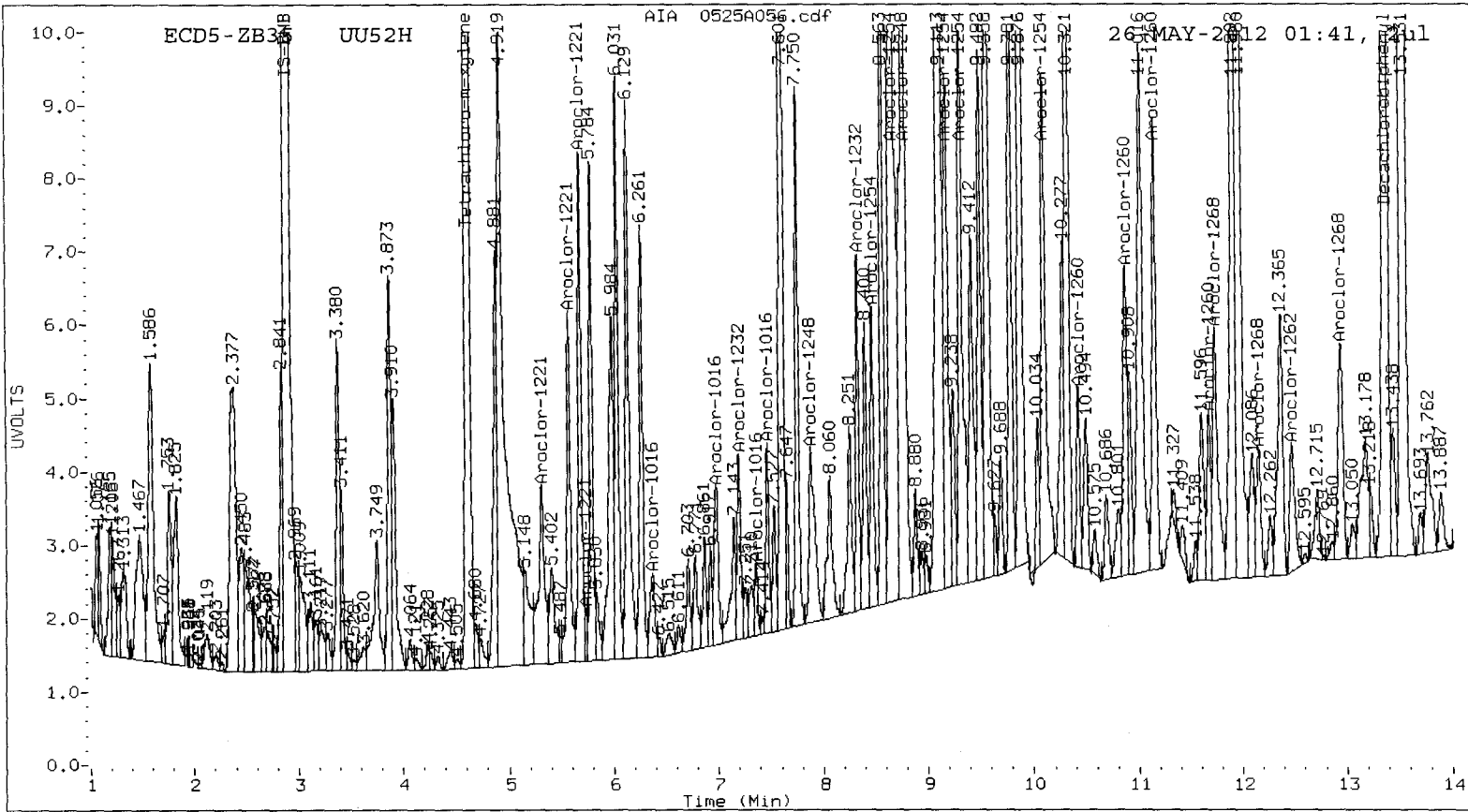
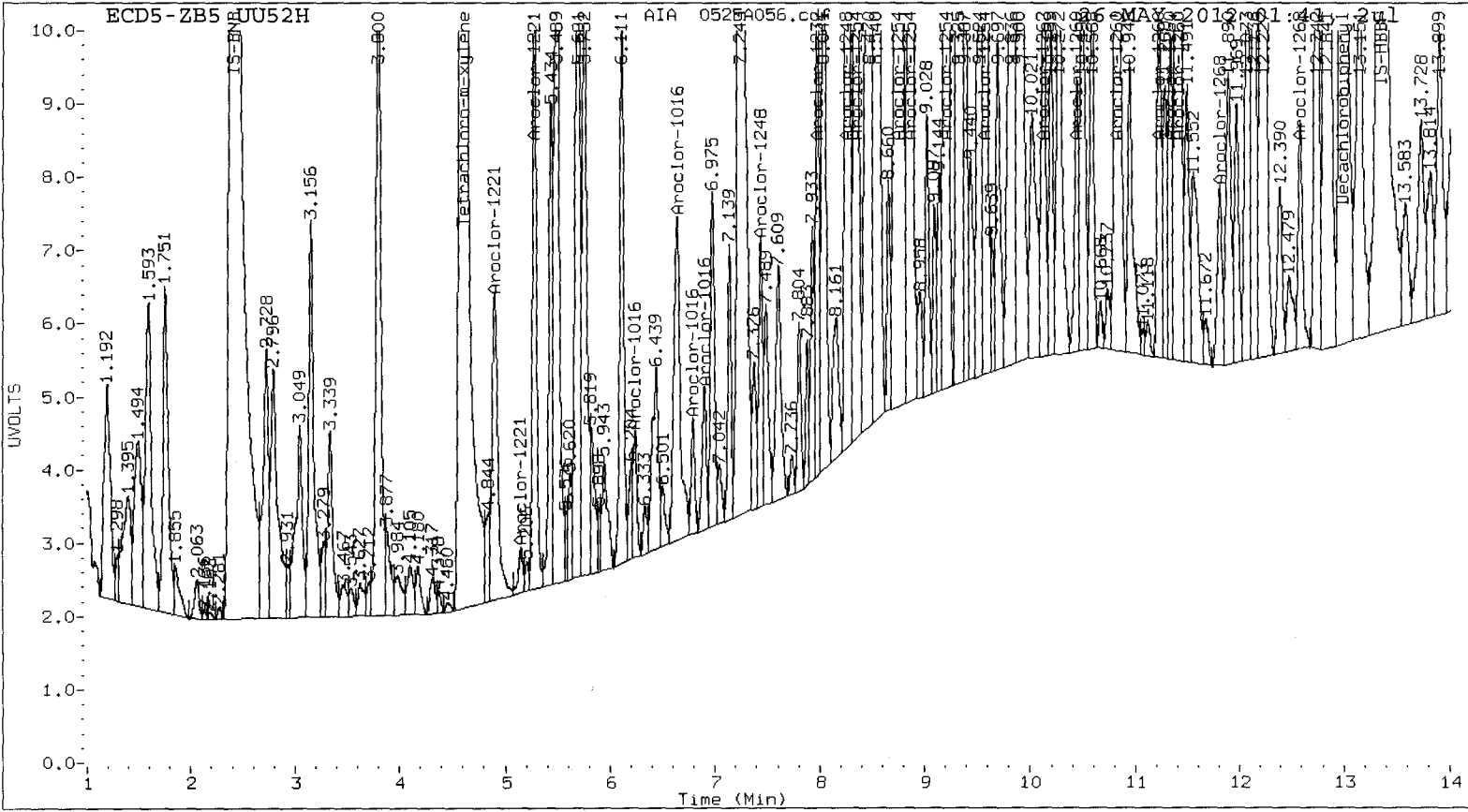
* Quantitated against AR1660 0.25ppm in Ical

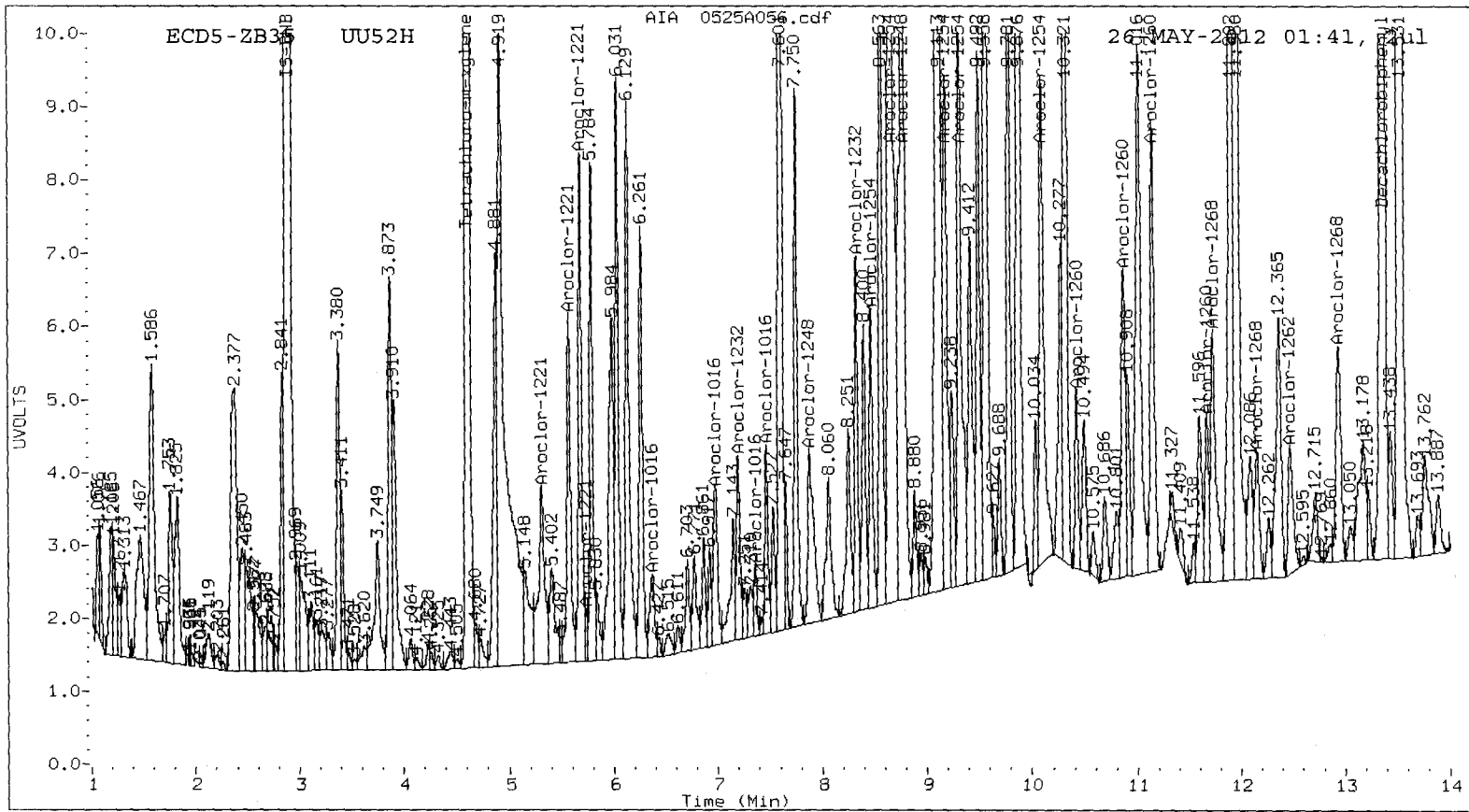
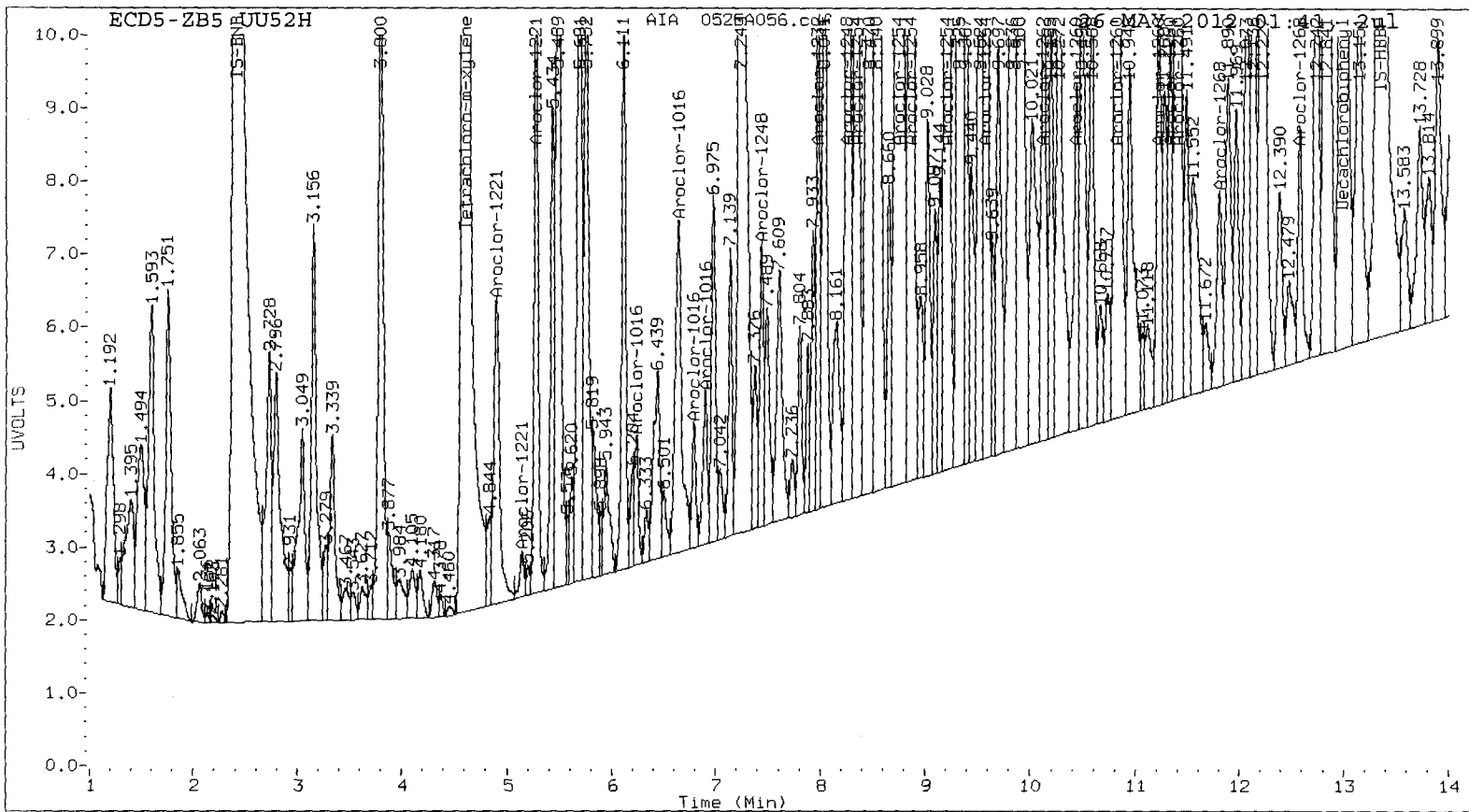
PCB-Form 10 Mod.

UU52:01741



UU52: 01742





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A057.d
Data file 2: 20120523.b/0525-2.b/0525A057.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52I
Client ID:
Injection Date: 26-MAY-2012 02:00
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|------|----------------------|
| 4.611 | 0.002 70764451 | 4.612 0.001 40606165 | 25.8 | 26.1 | 1.2 | Tetrachloro-m-xylene |
| 12.993 | 0.002 122739749 | 13.366 0.000 35991657 | 39.1 | 34.3 | 13.1 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 64.4 | 65.2 |
| Decachlorobiphenyl | 97.7 | 85.7 |

205/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 170997221 | 10.9 |
| Hexabromobiphenyl | 248602423 | 204648375 | -17.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 110753933 | 0.1 |
| Hexabromobiphenyl | 108855531 | 81238436 | -25.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|----------|--------|--------|----------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.208 | -0.034 | 2578757 | 36.1 | 1 | 6.363 | 0.016 | 1970803 | 34.1 | |
| Aroclor-1016 | 2 | 6.643 | 0.002 | 6036980 | 26.0 | 2 | 6.974 | 0.001 | 1870492 | 14.3 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 1335379 | 14.6 | 3 | 7.352 | -0.004 | 831702 | 24.6 | |
| Aroclor-1016 | 4 | 6.905 | 0.005 | 2260216 | 31.3 | 4 | 7.462 | -0.001 | 1736542 | 46.1 | |
| Total CollAve (4 peaks): | | | | 27.0 | Total Col2Ave (4 peaks): | | | | 29.8 | RPD = 10 | |
| Corrected Ave (3 peaks): | | | | 23.9 | Corrected Ave (3 peaks): | | | | 24.3 | RPD = 2 | |
| Aroclor-1221 | 1 | 4.893 | 0.009 | 7064558 | 551.1 | 1 | 5.308 | 0.018 | 3172707 | 181.8 | |
| Aroclor-1221 | 2 | 5.147 | -0.006 | 905017 | 43.9 | 2 | 5.567 | 0.031 | 4331391 | 420.0 | |
| Aroclor-1221 | 3 | 5.277 | 0.018 | 3213797 | 47.5 | 3 | 5.677 | 0.029 | 4164378 | 129.1 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.729 | 0.012 | 411406 | 69.6 | |
| Total CollAve (3 peaks): | | | | 214.2 | Total Col2Ave (4 peaks): | | | | 200.1 | RPD = 7 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 126.8 | | |
| Aroclor-1232 | 1 | 6.208 | -0.031 | 2578757 | 86.6 | 1 | 6.363 | 0.018 | 1970803 | 73.9 | |
| Aroclor-1232 | 2 | 6.643 | 0.004 | 6036980 | 60.9 | 2 | 6.974 | 0.003 | 1870492 | 33.5 | |
| Aroclor-1232 | 3 | 6.790 | 0.002 | 1335379 | 38.2 | 3 | 7.186 | 0.006 | 929939 | 49.4 | |
| Aroclor-1232 | 4 | 7.983 | 0.002 | 5438232 | 140.9 | 4 | 8.326 | 0.001 | 2511716 | 121.6 | |
| Total CollAve (4 peaks): | | | | 80.4 | Total Col2Ave (4 peaks): | | | | 69.6 | RPD = 14 | |
| Corrected Ave (3 peaks): | | | | 60.2 | Corrected Ave (3 peaks): | | | | 52.2 | RPD = 14 | |
| Aroclor-1242 | 1 | 6.208 | -0.035 | 2578757 | 47.9 | 1 | 6.363 | 0.016 | 1970803 | 43.6 | |
| Aroclor-1242 | 2 | 6.643 | 0.001 | 6036980 | 33.6 | 2 | 6.974 | 0.000 | 1870492 | 18.2 | |
| Aroclor-1242 | 3 | 6.790 | -0.001 | 1335379 | 18.6 | 3 | 7.186 | 0.004 | 929939 | 22.3 | |
| Aroclor-1242 | 4 | 7.983 | -0.001 | 5438232 | 81.5 | 4 | 8.326 | -0.001 | 2511716 | 69.3 | |
| Total CollAve (4 peaks): | | | | 45.4 | Total Col2Ave (4 peaks): | | | | 38.4 | RPD = 17 | |
| Corrected Ave (3 peaks): | | | | 33.4 | Corrected Ave (3 peaks): | | | | 28.0 | RPD = 17 | |
| Aroclor-1248 | 1 | 6.643 | 0.004 | 6036980 | 50.3 | 1 | 6.974 | 0.003 | 1870492 | 28.1 | |
| Aroclor-1248 | 2 | 7.439 | 0.001 | 3199188 | 35.3 | 2 | 7.876 | 0.001 | 1843476 | 34.6 | |
| Aroclor-1248 | 3 | 7.983 | -0.001 | 5438232 | 46.8 | 3 | 8.326 | -0.001 | 2511716 | 39.2 | |
| Aroclor-1248 | 4 | 8.267 | -0.007 | 8256140 | 70.4 | 4 | 8.737 | -0.011 | 10357626 | 143.2 | |
| Total CollAve (4 peaks): | | | | 50.7 | Total Col2Ave (4 peaks): | | | | 61.3 | RPD = 19 | |
| Corrected Ave (3 peaks): | | | | 44.1 | Corrected Ave (3 peaks): | | | | 31.0 | RPD = 26 | |
| Aroclor-1254 | 1 | 8.356 | -0.001 | 9980117 | 63.1 | 1 | 8.465 | -0.001 | 3165078 | 65.1 | |
| Aroclor-1254 | 2 | 8.748 | 0.021 | 26849263 | 265.7 | 2 | 8.641 | 0.003 | 7226718 | 116.9 | |
| Aroclor-1254 | 3 | 8.863 | -0.001 | 26991173 | 138.4 | 3 | 9.180 | 0.020 | 21542626 | 456.1 | |
| Aroclor-1254 | 4 | 9.212 | -0.001 | 25967592 | 123.6 | 4 | 9.310 | 0.001 | 10129753 | 97.0 | |
| Aroclor-1254 | 5 | 9.574 | 0.001 | 18395044 | 140.8 | 5 | 10.091 | -0.002 | 5539515 | 90.5 | |
| Total CollAve (5 peaks): | | | | 146.3 | Total Col2Ave (5 peaks): | | | | 165.1 | RPD = 12 | |
| Corrected Ave (4 peaks): | | | | 116.5 | Corrected Ave (4 peaks): | | | | 92.4 | RPD = 23 | |
| Aroclor-1260 | 1 | 10.445 | -0.001 | 2452101 | 22.1 | 1 | 10.422 | 0.001 | 1560080 | 33.5 | |
| Aroclor-1260 | 2 | 10.822 | 0.002 | 14914260 | 54.1 | 2 | 10.871 | -0.001 | 3523422 | 60.9 | |
| Aroclor-1260 | 3 | 11.278 | 0.057 | 14249573 | 93.0 | 3 | 11.146 | 0.001 | 5598297 | 47.7 | |
| Aroclor-1260 | 4 | 11.332 | -0.005 | 2714511 | 41.3 | 4 | 11.673 | 0.007 | 1608124 | 46.9 | |
| Aroclor-1260 | 5 | 11.408 | -0.002 | 88919598 | 1132.6 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 268.6 | Total Col2Ave (4 peaks): | | | | 47.2 | RPD = 140* | |
| Corrected Ave (4 peaks): | | | | 52.6 | Corrected Ave (3 peaks): | | | | 42.7 | RPD = 21 | |
| Aroclor-1262 | 1 | 10.130 | 0.002 | 5583741 | 34.1 | 1 | 10.422 | 0.005 | 1560080 | 20.5 | |
| Aroclor-1262 | 2 | 10.445 | 0.001 | 2452101 | 19.7 | 2 | 10.871 | 0.001 | 3523422 | 53.7 | |
| Aroclor-1262 | 3 | 10.822 | 0.004 | 14914260 | 43.8 | 3 | 11.146 | 0.004 | 5598297 | 37.6 | |
| Aroclor-1262 | 4 | 11.332 | -0.002 | 2714511 | 21.8 | 4 | 11.673 | 0.009 | 1608124 | 26.8 | |
| Aroclor-1262 | 5 | 11.408 | 0.001 | 88919598 | 628.3 | 5 | 12.492 | 0.029 | 2992529 | 53.6 | |
| Total CollAve (5 peaks): | | | | 149.5 | Total Col2Ave (5 peaks): | | | | 38.4 | RPD = 118* | |
| Corrected Ave (4 peaks): | | | | 29.8 | Corrected Ave (4 peaks): | | | | 34.6 | RPD = 15 | |
| Aroclor-1268 | 1 | 11.332 | -0.004 | 2714511 | 7.8 | 1 | 11.673 | 0.009 | 1608124 | 10.4 | |
| Aroclor-1268 | 2 | 11.408 | 0.001 | 88919598 | 253.8 | 2 | 11.725 | -0.005 | 4021148 | 27.5 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|--------------------------|---|--------|--------|------------|------|
| Aroclor-1268 3 | 11.809 | 0.016 | 2944894 | 10.1 | 3 | 12.156 | 0.029 | 2156287 | 17.6 |
| Aroclor-1268 4 | 12.591 | 0.006 | 1495370 | 1.7 | 4 | 12.939 | -0.010 | 3195187 | 9.2 |
| Total Col1Ave (4 peaks): | | | 68.4 | Total Col2Ave (4 peaks): | | | 16.2 | RPD = 124* | |
| Corrected Ave (3 peaks): | | | 6.5 | Corrected Ave (3 peaks): | | | 12.4 | RPD = 62* | |

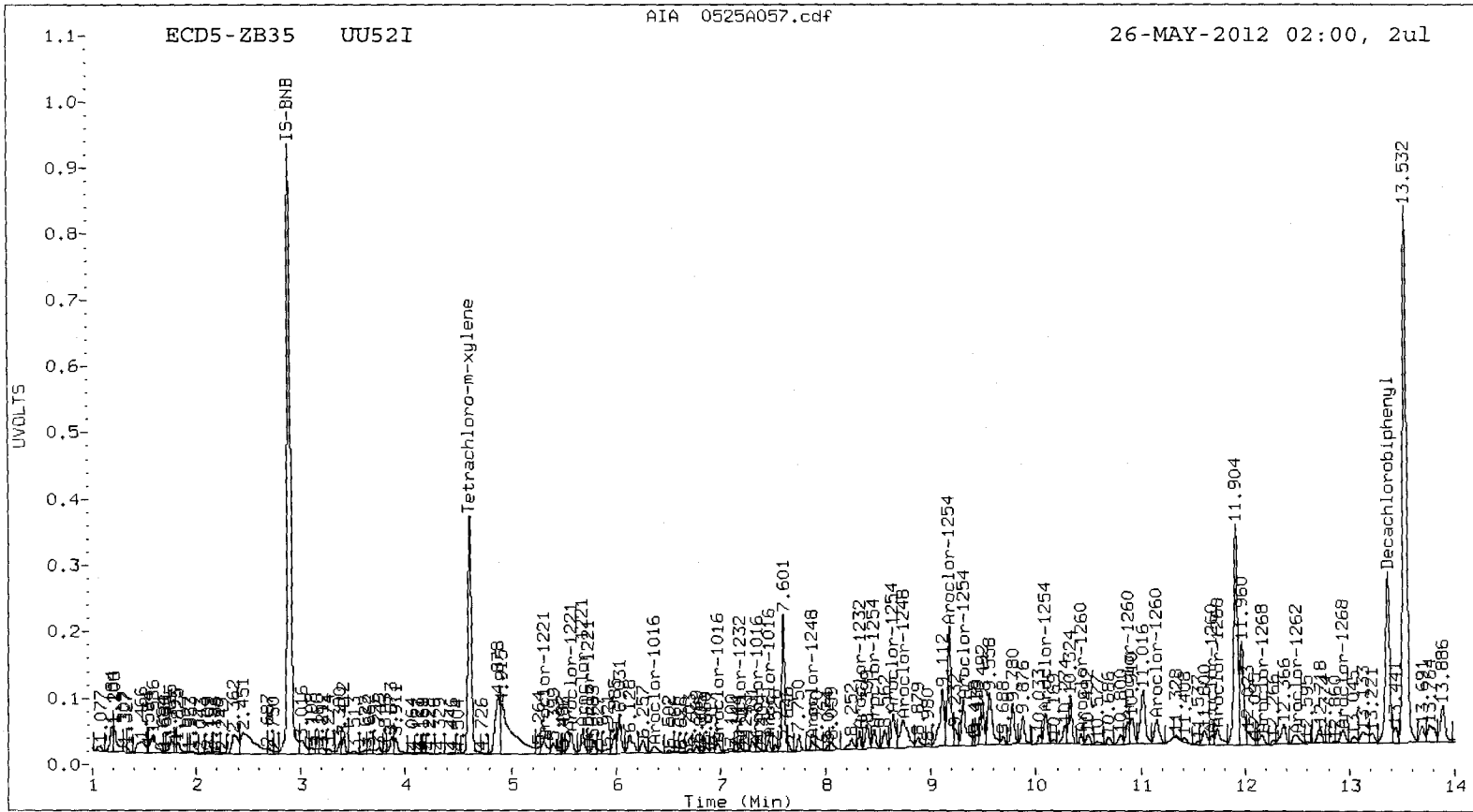
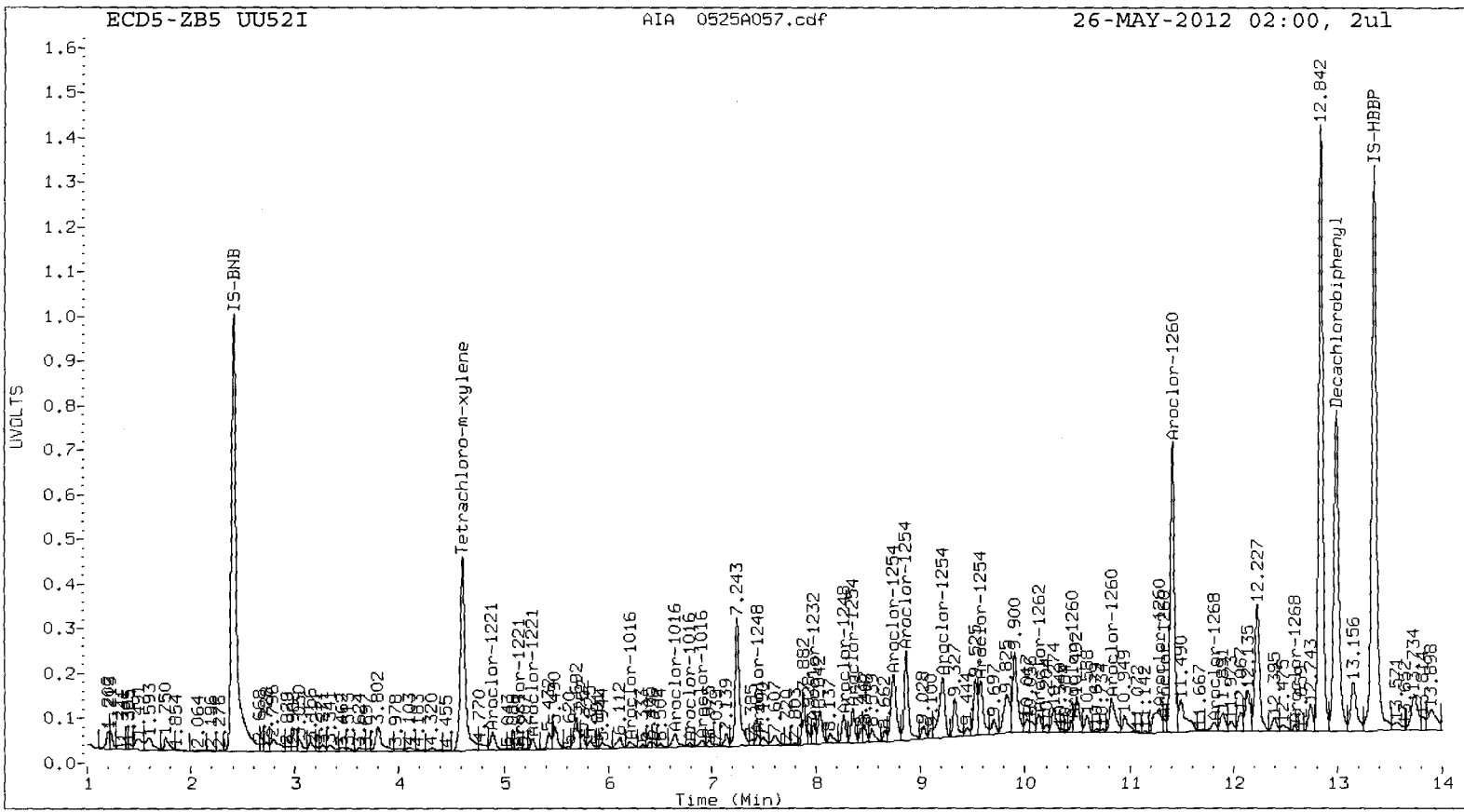
Total PCB Area Col1 (4.710 - 12.891) = 867061260 Col1 Total PCB = 0.4 ppm*

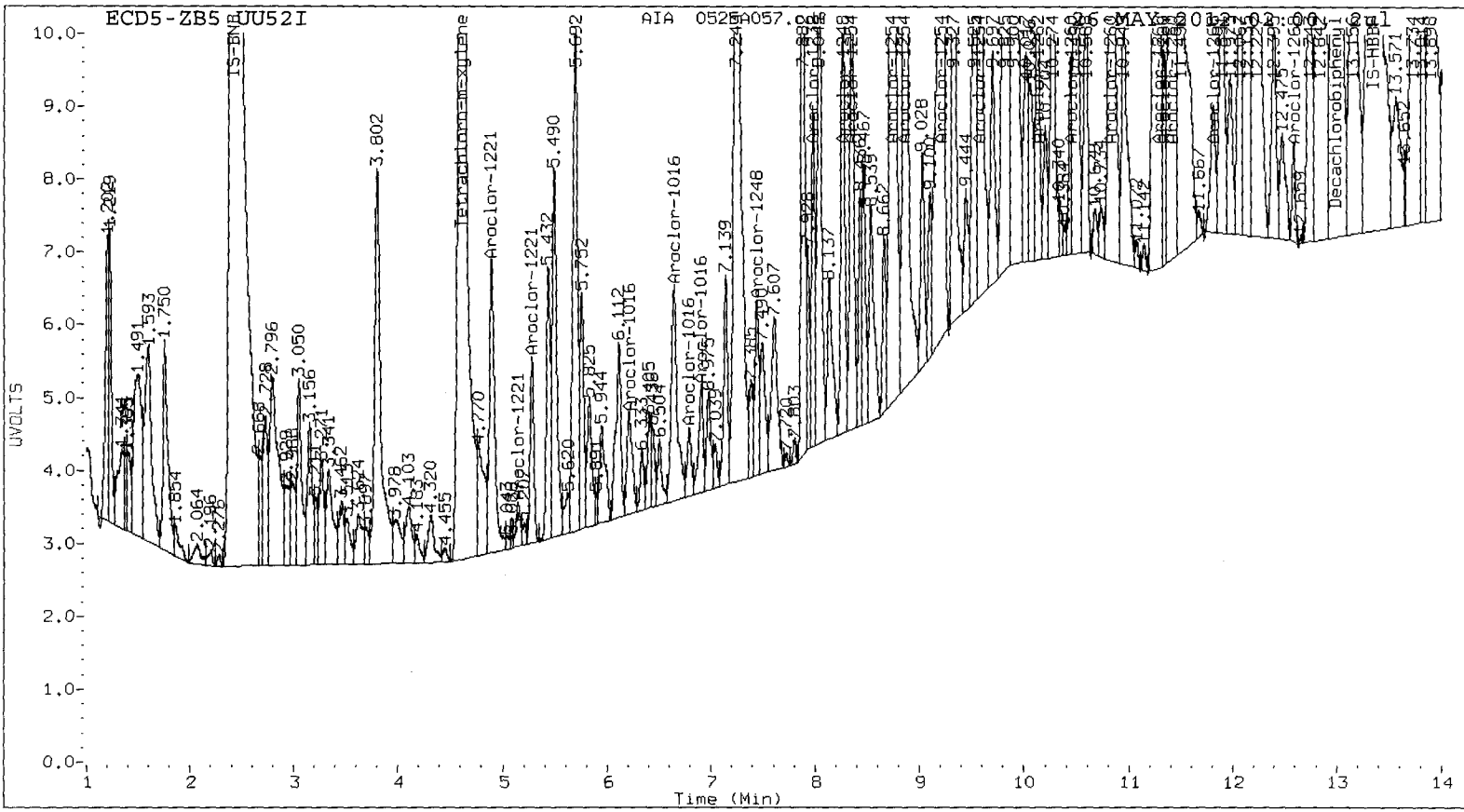
Total PCB Area Col2 (4.711 - 13.265) = 397662044 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01747





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A058.d
Data file 2: 20120523.b/0525-2.b/0525A058.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52J
Client ID:
Injection Date: 26-MAY-2012 02:19
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|------|----------------------|
| 4.611 | 0.001 | 73942264 | 4.612 | 0.001 | 42537124 | 27.8 | 26.5 | 4.9 | Tetrachloro-m-xylene |
| 12.992 | 0.001 | 97503291 | 13.366 | 0.000 | 37720878 | 29.7 | 36.8 | 21.5 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 69.6 | 66.2 |
| Decachlorobiphenyl | 74.2 | 92.1 |

05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 165312726 | 7.2 |
| Hexabromobiphenyl | 248602423 | 213969653 | -13.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 114133347 | 3.2 |
| Hexabromobiphenyl | 108855531 | 79253731 | -27.2 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|-------|--------|--------|----------|------------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.204 | -0.038 | 2335413 | 33.9 | 1 | 6.360 | 0.013 | 1792872 | 30.1 | |
| Aroclor-1016 | 2 | 6.643 | 0.001 | 6268669 | 27.9 | 2 | 6.974 | 0.001 | 1667363 | 12.3 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 1590125 | 17.9 | 3 | 7.351 | -0.006 | 1462881 | 41.9 | |
| Aroclor-1016 | 4 | 6.901 | 0.001 | 2116685 | 30.3 | 4 | 7.461 | -0.002 | 1550921 | 40.0 | |
| Total CollAve (4 peaks): | | | | 27.5 | Total Col2Ave (4 peaks): | | | | 31.1 | RPD = 12 | |
| Corrected Ave (3 peaks): | | | | 25.4 | Corrected Ave (3 peaks): | | | | 27.5 | RPD = 8 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.892 | 0.008 | 7333895 | 591.8 | 1 | 5.309 | 0.019 | 4264795 | 237.1 | |
| Aroclor-1221 | 2 | 5.146 | -0.007 | 1065419 | 53.4 | 2 | 5.514 | -0.022 | 175301 | 16.5 | |
| Aroclor-1221 | 3 | 5.276 | 0.017 | 2651069 | 40.6 | 3 | 5.677 | 0.028 | 3743811 | 112.6 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 228.6 | Total Col2Ave (3 peaks): | | | | 122.1 | RPD = 61* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 6.204 | -0.035 | 2335413 | 81.1 | 1 | 6.360 | 0.015 | 1792872 | 65.2 | |
| Aroclor-1232 | 2 | 6.643 | 0.004 | 6268669 | 65.4 | 2 | 6.974 | 0.003 | 1667363 | 29.0 | |
| Aroclor-1232 | 3 | 6.790 | 0.003 | 1590125 | 40.9 | 3 | 7.183 | 0.004 | 618209 | 31.8 | |
| Aroclor-1232 | 4 | 7.983 | 0.002 | 6585155 | 176.5 | 4 | 8.326 | 0.001 | 2669550 | 125.4 | |
| Total CollAve (4 peaks): | | | | 91.0 | Total Col2Ave (4 peaks): | | | | 62.9 | RPD = 37 | |
| Corrected Ave (3 peaks): | | | | 62.5 | Corrected Ave (3 peaks): | | | | 42.0 | RPD = 39 | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 6.204 | -0.039 | 2335413 | 44.9 | 1 | 6.360 | 0.013 | 1792872 | 38.5 | |
| Aroclor-1242 | 2 | 6.643 | 0.001 | 6268669 | 36.1 | 2 | 6.974 | 0.000 | 1667363 | 15.8 | |
| Aroclor-1242 | 3 | 6.790 | 0.000 | 1590125 | 23.0 | 3 | 7.183 | 0.001 | 618209 | 14.4 | |
| Aroclor-1242 | 4 | 7.983 | -0.001 | 6585155 | 102.1 | 4 | 8.326 | -0.001 | 2669550 | 71.5 | |
| Total CollAve (4 peaks): | | | | 51.5 | Total Col2Ave (4 peaks): | | | | 35.0 | RPD = 38 | |
| Corrected Ave (3 peaks): | | | | 34.7 | Corrected Ave (3 peaks): | | | | 22.9 | RPD = 41* | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 6.643 | 0.004 | 6268669 | 54.0 | 1 | 6.974 | 0.003 | 1667363 | 24.3 | |
| Aroclor-1248 | 2 | 7.437 | -0.001 | 4289164 | 48.9 | 2 | 7.876 | 0.001 | 2002818 | 36.5 | |
| Aroclor-1248 | 3 | 7.983 | -0.001 | 6585155 | 58.6 | 3 | 8.326 | 0.000 | 2669550 | 40.4 | |
| Aroclor-1248 | 4 | 8.270 | -0.004 | 6613104 | 58.3 | 4 | 8.739 | -0.009 | 9604640 | 128.9 | |
| Total CollAve (4 peaks): | | | | 55.0 | Total Col2Ave (4 peaks): | | | | 57.5 | RPD = 5 | |
| Corrected Ave (3 peaks): | | | | 53.8 | Corrected Ave (3 peaks): | | | | 33.7 | RPD = 46* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 8.356 | 0.000 | 7654465 | 50.4 | 1 | 8.465 | -0.001 | 2612087 | 52.1 | |
| Aroclor-1254 | 2 | 8.745 | 0.018 | 20487889 | 209.8 | 2 | 8.639 | 0.000 | 6170373 | 96.9 | |
| Aroclor-1254 | 3 | 8.864 | 0.001 | 21191779 | 112.4 | 3 | 9.183 | 0.023 | 12748398 | 261.9 | |
| Aroclor-1254 | 4 | 9.214 | 0.001 | 22438330 | 110.5 | 4 | 9.310 | 0.000 | 8667468 | 80.5 | |
| Aroclor-1254 | 5 | 9.574 | 0.000 | 15838568 | 125.4 | 5 | 10.089 | -0.003 | 5046612 | 80.0 | |
| Total CollAve (5 peaks): | | | | 121.7 | Total Col2Ave (5 peaks): | | | | 114.3 | RPD = 6 | |
| Corrected Ave (4 peaks): | | | | 99.7 | Corrected Ave (4 peaks): | | | | 77.4 | RPD = 25 | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.444 | -0.003 | 1402458 | 12.1 | 1 | 10.422 | 0.001 | 1242448 | 27.3 | |
| Aroclor-1260 | 2 | 10.822 | 0.002 | 12007531 | 41.7 | 2 | 10.910 | 0.038 | 10801343 | 191.4 | |
| Aroclor-1260 | 3 | 11.227 | 0.007 | 2943330 | 18.4 | 3 | 11.145 | 0.000 | 4221616 | 36.8 | |
| Aroclor-1260 | 4 | 11.280 | -0.056 | 11639603 | 169.3 | 4 | 11.672 | 0.006 | 1329235 | 39.7 | |
| Aroclor-1260 | 5 | 11.407 | -0.003 | 47546329 | 579.3 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 164.1 | Total Col2Ave (4 peaks): | | | | 73.8 | RPD = 76* | |
| Corrected Ave (4 peaks): | | | | 90.4 | Corrected Ave (3 peaks): | | | | 54.6 | RPD = 54* | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.132 | 0.004 | 4622438 | 27.1 | 1 | 10.422 | 0.003 | 1242448 | 16.7 | |
| Aroclor-1262 | 2 | 10.444 | 0.000 | 1402458 | 10.8 | 2 | 10.910 | 0.040 | 10801343 | 168.7 | |
| Aroclor-1262 | 3 | 10.822 | 0.004 | 12007531 | 33.7 | 3 | 11.145 | 0.003 | 4221616 | 29.0 | |
| Aroclor-1262 | 4 | 11.280 | -0.054 | 11639603 | 89.4 | 4 | 11.672 | 0.008 | 1329235 | 22.7 | |
| Aroclor-1262 | 5 | 11.407 | 0.000 | 47546329 | 321.3 | 5 | 12.489 | 0.026 | 1730993 | 31.8 | |
| Total CollAve (5 peaks): | | | | 96.5 | Total Col2Ave (5 peaks): | | | | 53.8 | RPD = 57* | |
| Corrected Ave (4 peaks): | | | | 40.3 | Corrected Ave (4 peaks): | | | | 25.1 | RPD = 46* | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 11.280 | -0.055 | 11639603 | 31.9 | 1 | 11.672 | 0.008 | 1329235 | 8.8 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 47546329 | 129.8 | 2 | 11.724 | -0.006 | 2674437 | 18.8 | |

| | | | | | | | | | |
|--------------------------|--------|-------|---------|-----|---|--------------------------|--------|----------|-----------|
| Aroclor-1268 3 | 11.807 | 0.015 | 1708880 | 5.6 | 3 | 12.073 | -0.055 | 5301829 | 44.3 |
| Aroclor-1268 4 | 12.587 | 0.002 | 2749897 | 3.1 | 4 | 12.933 | -0.017 | 10747010 | 31.8 |
| Total Col1Ave (4 peaks): | | | 42.6 | | | Total Col2Ave (4 peaks): | | 25.9 | RPD = 49* |
| Corrected Ave (3 peaks): | | | 13.5 | | | Corrected Ave (3 peaks): | | 19.8 | RPD = 37 |

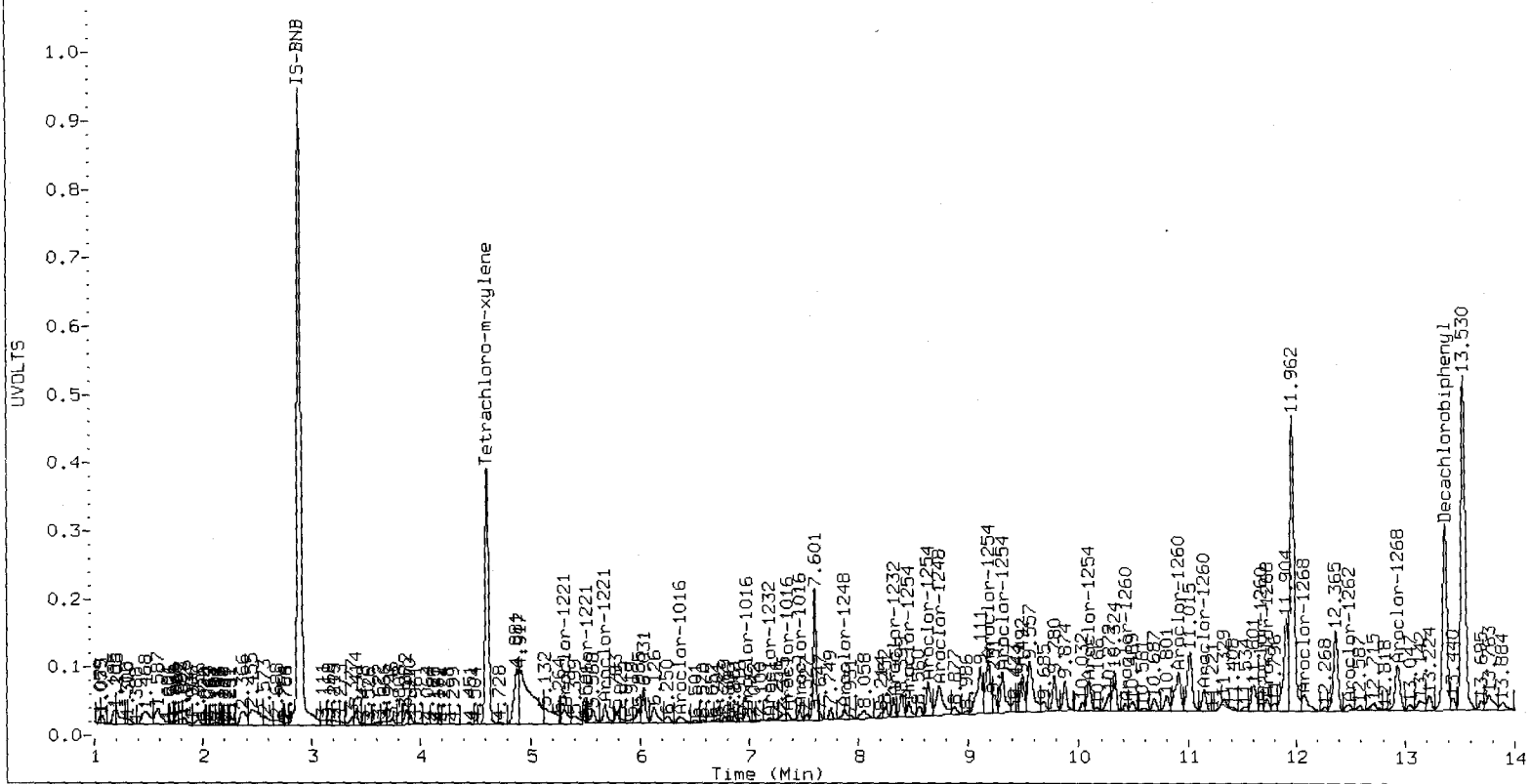
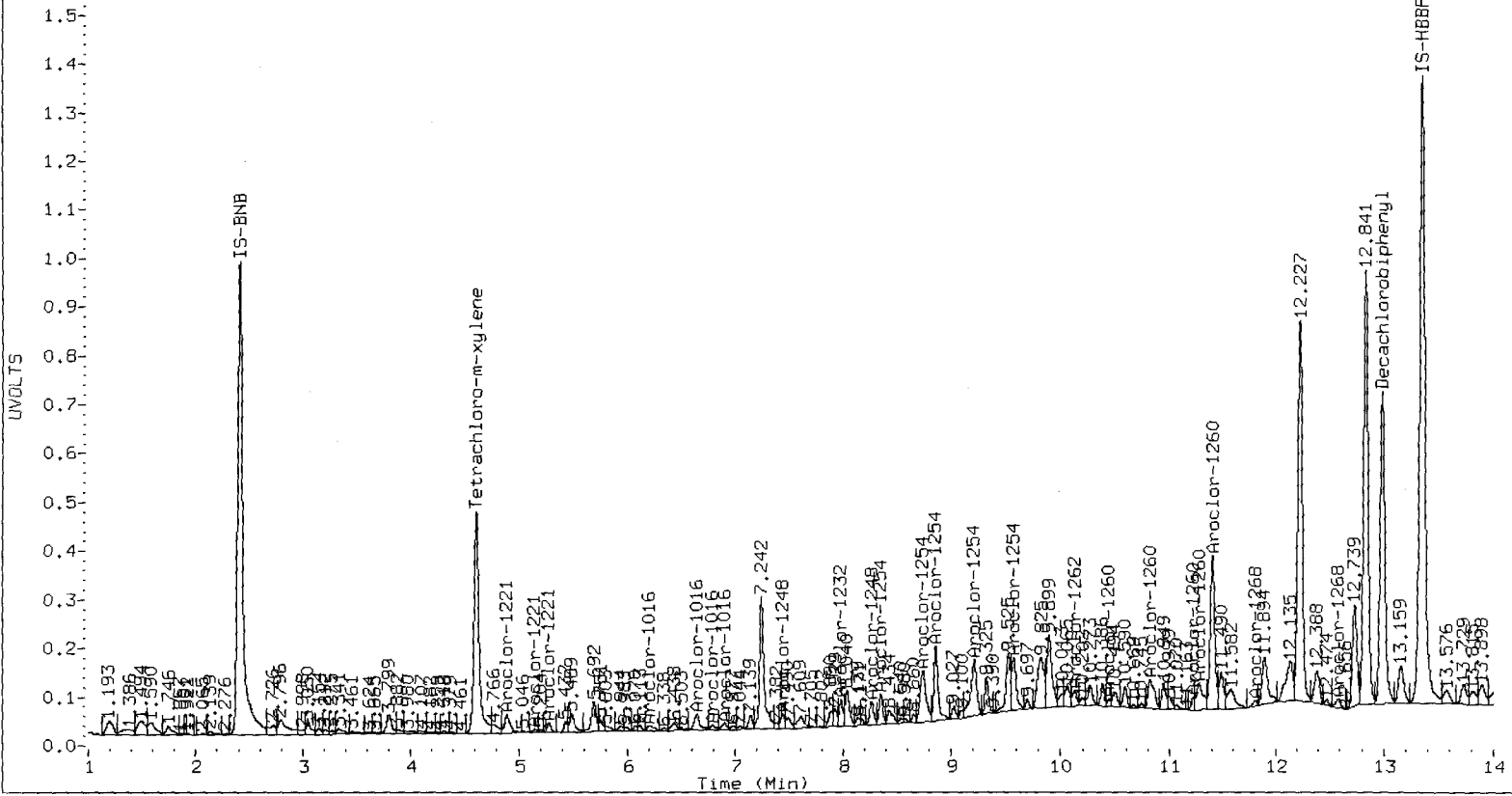
Total PCB Area Col1 (4.710 - 12.891) = 816876940 Col1 Total PCB = 0.4 ppm*

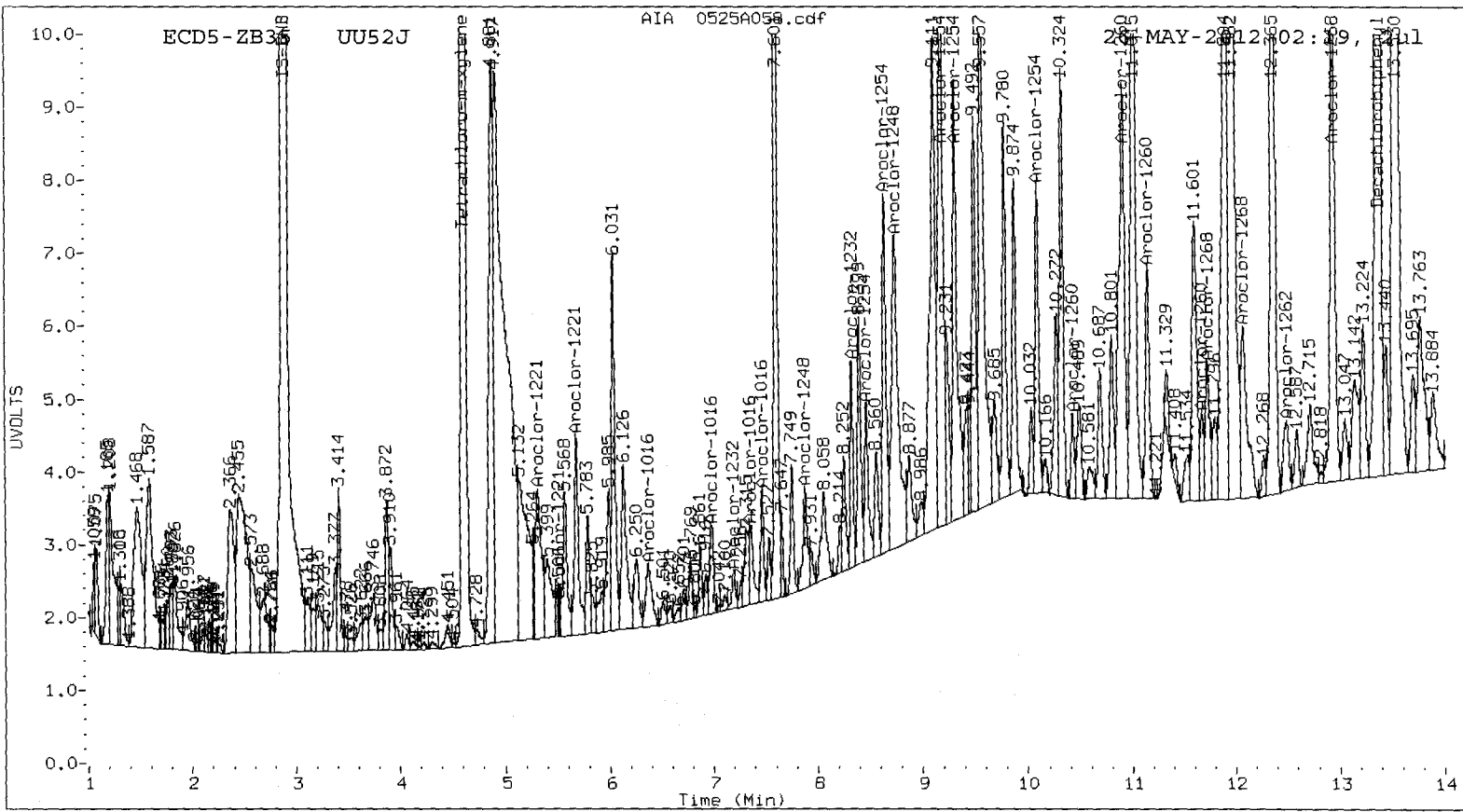
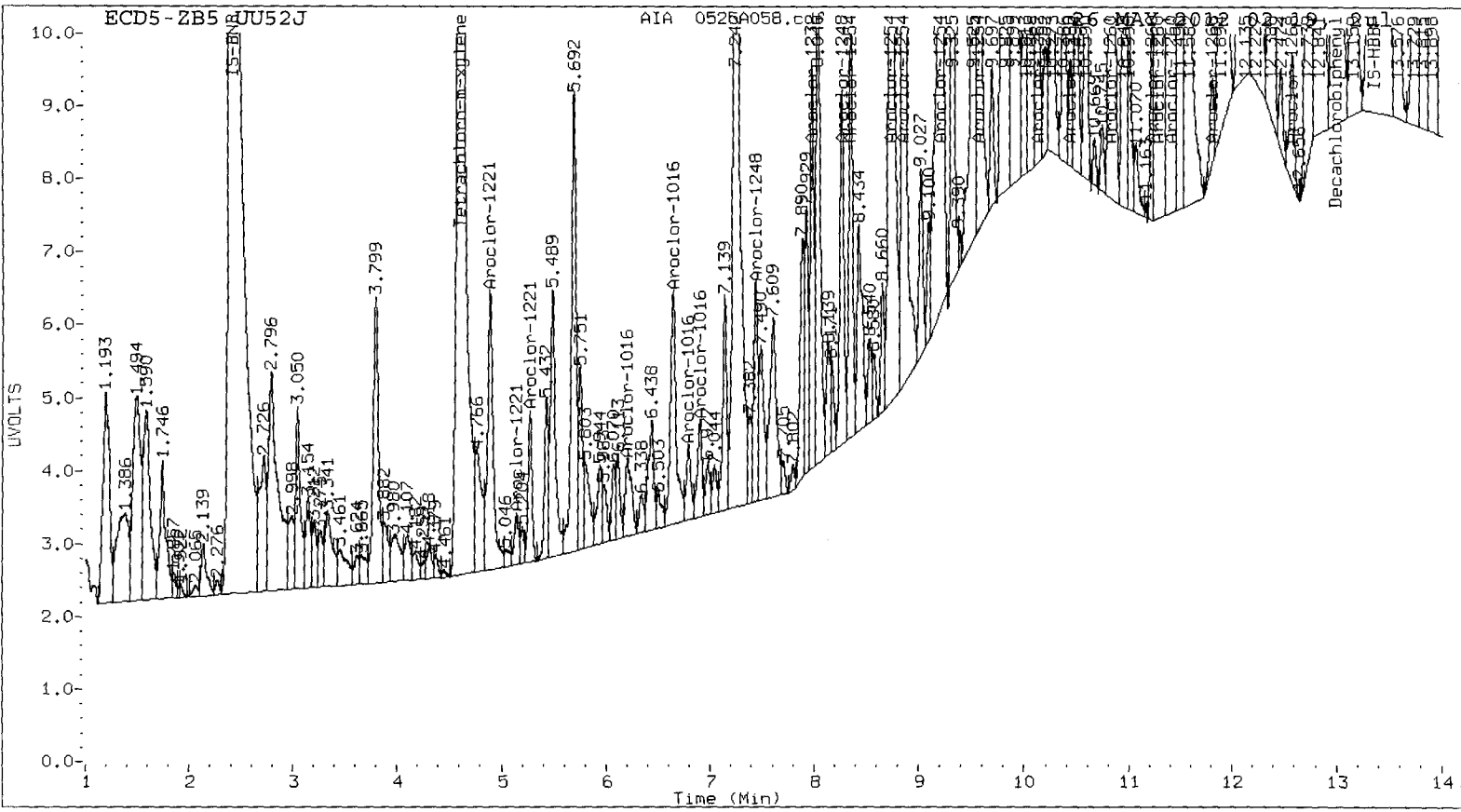
Total PCB Area Col2 (4.711 - 13.265) = 418949275 Col2 Total PCB = 0.4 ppm*

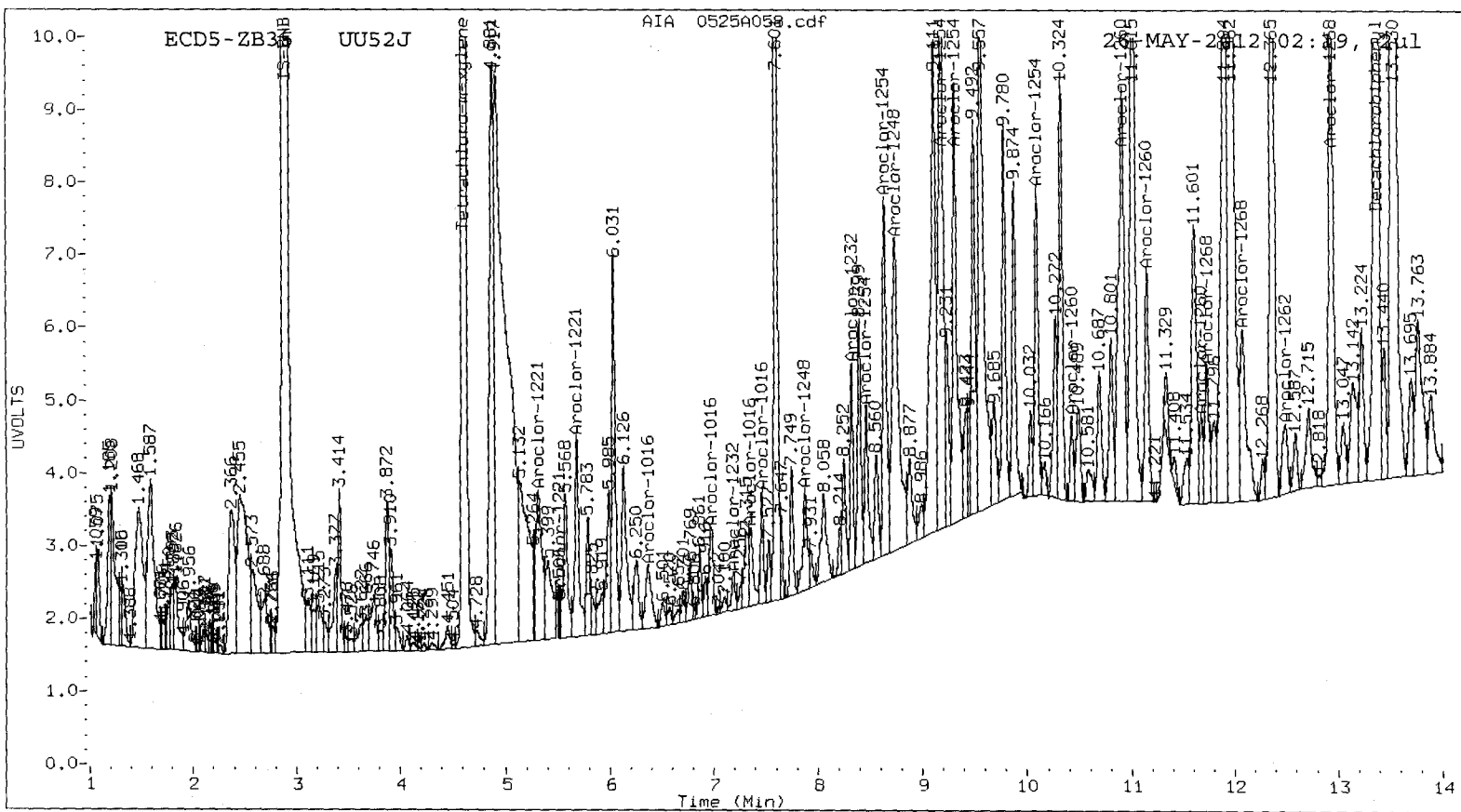
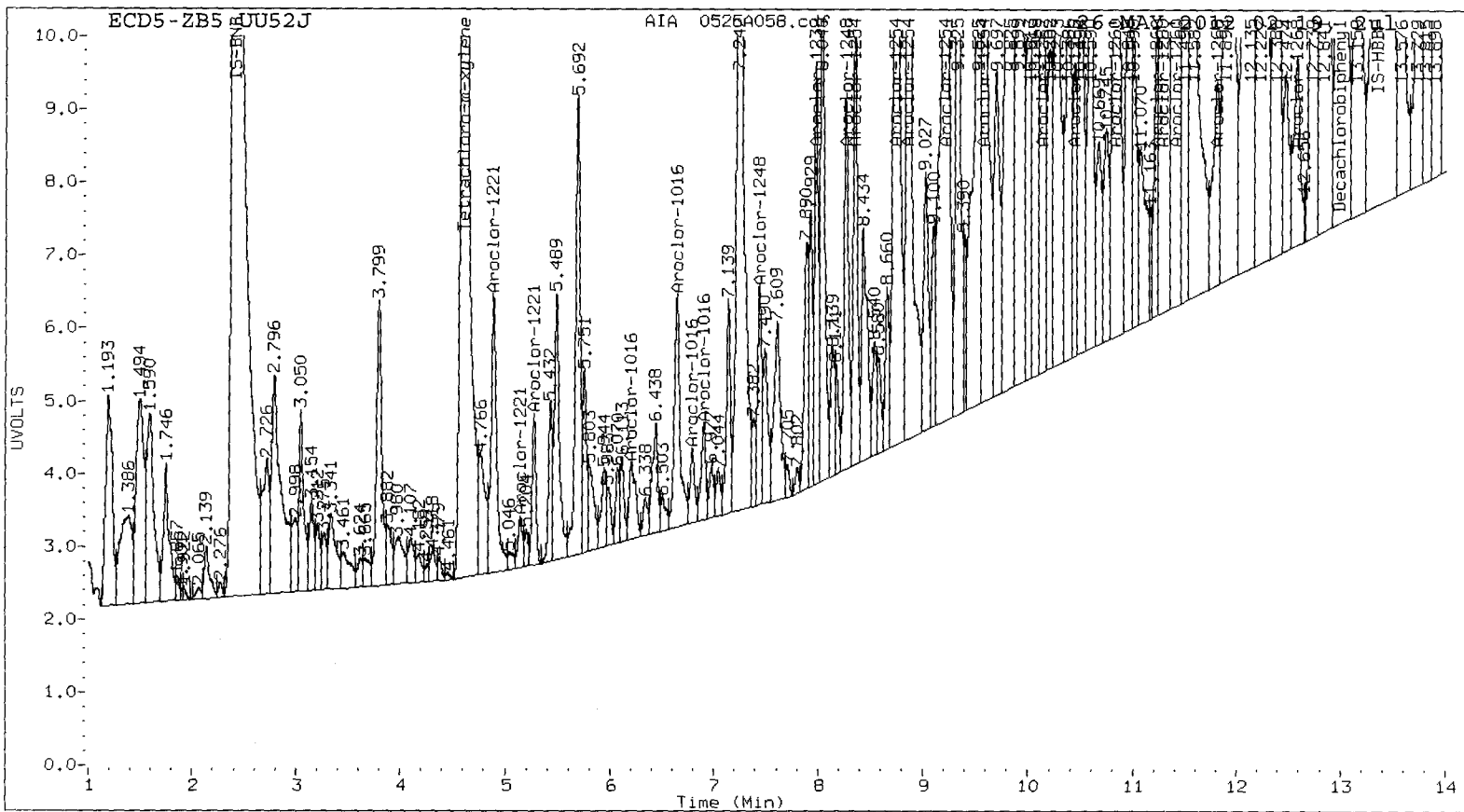
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01753







Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A059.d
Data file 2: 20120523.b/0525-2.b/0525A059.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52JMS
Client ID:
Injection Date: 26-MAY-2012 02:38
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|------|----------------------|
| 4.611 | 0.001 77289363 | 4.613 0.002 43563901 | 28.2 | 26.9 | 4.8 | Tetrachloro-m-xylene |
| 12.993 | 0.002 87878541 | 13.366 0.000 35683163 | 26.5 | 35.4 | 28.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 70.5 | 67.2 |
| Decachlorobiphenyl | 66.3 | 88.5 |

je 05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 170569379 | 10.6 |
| Hexabromobiphenyl | 248602423 | 215844910 | -13.2 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 115176537 | 4.1 |
| Hexabromobiphenyl | 108855531 | 78007406 | -28.3 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|----------|----------|--------------------------|--------|--------|----------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.243 | 0.002 | 17517624 | 246.2 | 1 | 6.349 | 0.001 | 16664558 | 277.2 | |
| Aroclor-1016 | 2 | 6.644 | 0.002 | 63377600 | 273.2 | 2 | 6.973 | -0.001 | 29616268 | 217.0 | |
| Aroclor-1016 | 3 | 6.791 | 0.001 | 23341488 | 255.1 | 3 | 7.356 | 0.000 | 8373248 | 237.8 | |
| Aroclor-1016 | 4 | 6.902 | 0.002 | 18335580 | 254.4 | 4 | 7.463 | 0.000 | 9281654 | 237.1 | |
| Total CollAve (4 peaks): | | | | 257.2 | | Total Col2Ave (4 peaks): | | | | 242.7 | RPD = 6 |
| Corrected Ave (3 peaks): | | | | 251.9 | | Corrected Ave (3 peaks): | | | | 230.7 | RPD = 9 |
| Aroclor-1221 | 1 | 4.893 | 0.009 | 6359549 | 497.4 | 1 | 5.302 | 0.012 | 7748754 | 426.9 | |
| Aroclor-1221 | 2 | 5.156 | 0.003 | 2861643 | 139.0 | 2 | 5.562 | 0.026 | 5291992 | 493.5 | |
| Aroclor-1221 | 3 | 5.268 | 0.010 | 14980804 | 222.1 | 3 | 5.658 | 0.009 | 10124654 | 301.9 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.724 | 0.007 | 655076 | 106.6 | |
| Total CollAve (3 peaks): | | | | 286.2 | | Total Col2Ave (4 peaks): | | | | 332.2 | RPD = 15 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave (3 peaks): | | | | 278.5 | |
| Aroclor-1232 | 1 | 6.243 | 0.005 | 17517624 | 589.5 | 1 | 6.349 | 0.003 | 16664558 | 600.8 | |
| Aroclor-1232 | 2 | 6.644 | 0.005 | 63377600 | 641.2 | 2 | 6.973 | 0.002 | 29616268 | 509.9 | |
| Aroclor-1232 | 3 | 6.791 | 0.004 | 23341488 | 582.2 | 3 | 7.182 | 0.003 | 10576385 | 539.8 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 8905525 | 231.3 | 4 | 8.327 | 0.001 | 4096443 | 190.7 | |
| Total CollAve (4 peaks): | | | | 511.1 | | Total Col2Ave (4 peaks): | | | | 460.3 | RPD = 10 |
| Corrected Ave (3 peaks): | | | | 467.7 | | Corrected Ave (3 peaks): | | | | 413.5 | RPD = 12 |
| Aroclor-1242 | 1 | 6.243 | 0.001 | 17517624 | 326.3 | 1 | 6.349 | 0.001 | 16664558 | 354.6 | |
| Aroclor-1242 | 2 | 6.644 | 0.001 | 63377600 | 354.0 | 2 | 6.973 | -0.001 | 29616268 | 277.5 | |
| Aroclor-1242 | 3 | 6.791 | 0.001 | 23341488 | 326.8 | 3 | 7.182 | 0.000 | 10576385 | 243.9 | |
| Aroclor-1242 | 4 | 7.983 | 0.000 | 8905525 | 133.9 | 4 | 8.327 | 0.000 | 4096443 | 108.7 | |
| Total CollAve (4 peaks): | | | | 285.2 | | Total Col2Ave (4 peaks): | | | | 246.2 | RPD = 15 |
| Corrected Ave (3 peaks): | | | | 262.3 | | Corrected Ave (3 peaks): | | | | 210.0 | RPD = 22 |
| Aroclor-1248 | 1 | 6.644 | 0.004 | 63377600 | 529.2 | 1 | 6.973 | 0.002 | 29616268 | 428.2 | |
| Aroclor-1248 | 2 | 7.438 | 0.000 | 19110224 | 211.2 | 2 | 7.875 | 0.000 | 11242147 | 202.9 | |
| Aroclor-1248 | 3 | 7.983 | -0.001 | 8905525 | 76.8 | 3 | 8.327 | 0.000 | 4096443 | 61.5 | |
| Aroclor-1248 | 4 | 8.273 | -0.001 | 8869209 | 75.8 | 4 | 8.740 | -0.008 | 11451263 | 152.3 | |
| Total CollAve (4 peaks): | | | | 223.3 | | Total Col2Ave (4 peaks): | | | | 211.2 | RPD = 6 |
| Corrected Ave (3 peaks): | | | | 120.3 | | Corrected Ave (3 peaks): | | | | 138.9 | RPD = 14 |
| Aroclor-1254 | 1 | 8.359 | 0.002 | 20258969 | 129.4 | 1 | 8.466 | 0.000 | 8145218 | 161.1 | |
| Aroclor-1254 | 2 | 8.740 | 0.012 | 21148943 | 209.9 | 2 | 8.640 | 0.001 | 11922906 | 185.5 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 33713192 | 173.3 | 3 | 9.181 | 0.021 | 14732607 | 200.0 | |
| Aroclor-1254 | 4 | 9.197 | -0.015 | 58432241 | 278.9 | 4 | 9.311 | 0.001 | 10479549 | 96.5 | |
| Aroclor-1254 | 5 | 9.523 | -0.050 | 93499351 | 717.4 | 5 | 10.099 | 0.007 | 11754820 | 184.6 | |
| Total CollAve (5 peaks): | | | | 301.8 | | Total Col2Ave (5 peaks): | | | | 185.5 | RPD = 48* |
| Corrected Ave (4 peaks): | | | | 197.3 | | Corrected Ave (4 peaks): | | | | 156.9 | RPD = 23 |
| Aroclor-1260 | 1 | 10.447 | 0.000 | 31627025 | 270.1 | 1 | 10.423 | 0.001 | 13794335 | 308.3 | |
| Aroclor-1260 | 2 | 10.821 | 0.000 | 87205761 | 300.1 | 2 | 10.874 | 0.002 | 27390961 | 493.1 | |
| Aroclor-1260 | 3 | 11.221 | 0.000 | 42511153 | 263.2 | 3 | 11.145 | 0.000 | 38011550 | 337.0 | |
| Aroclor-1260 | 4 | 11.337 | 0.000 | 19903980 | 287.0 | 4 | 11.667 | 0.001 | 10823156 | 328.6 | |
| Aroclor-1260 | 5 | 11.407 | -0.004 | 72092462 | 870.7 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 298.2 | | Total Col2Ave (4 peaks): | | | | 366.8 | RPD = 8 |
| Corrected Ave (4 peaks): | | | | 280.1 | | Corrected Ave (3 peaks): | | | | 324.6 | RPD = 15 |
| Aroclor-1262 | 1 | 10.131 | 0.004 | 36469288 | 212.0 | 1 | 10.423 | 0.003 | 13794335 | 188.8 | |
| Aroclor-1262 | 2 | 10.447 | 0.002 | 31627025 | 240.6 | 2 | 10.874 | 0.004 | 27390961 | 434.6 | |
| Aroclor-1262 | 3 | 10.821 | 0.002 | 87205761 | 242.8 | 3 | 11.145 | 0.003 | 38011550 | 265.6 | |
| Aroclor-1262 | 4 | 11.337 | 0.003 | 19903980 | 151.6 | 4 | 11.667 | 0.003 | 10823156 | 188.0 | |
| Aroclor-1262 | 5 | 11.407 | 0.000 | 72092462 | 482.9 | 5 | 12.465 | 0.002 | 9958348 | 185.8 | |
| Total CollAve (5 peaks): | | | | 266.0 | | Total Col2Ave (5 peaks): | | | | 252.6 | RPD = 5 |
| Corrected Ave (4 peaks): | | | | 211.7 | | Corrected Ave (4 peaks): | | | | 207.0 | RPD = 2 |
| Aroclor-1268 | 1 | 11.337 | 0.001 | 19903980 | 54.2 | 1 | 11.667 | 0.003 | 10823156 | 72.7 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 72092462 | 195.1 | 2 | 11.725 | -0.005 | 26678202 | 190.0 | |

| | | | | | | | | | |
|--------------------------|--------|-------|----------|--------------------------|---|--------|--------|----------|------|
| Aroclor-1268 3 | 11.810 | 0.018 | 11207303 | 36.3 | 3 | 12.128 | 0.000 | 1746325 | 14.8 |
| Aroclor-1268 4 | 12.586 | 0.001 | 8088899 | 8.9 | 4 | 12.935 | -0.015 | 13986682 | 42.0 |
| Total Col1Ave (4 peaks): | | 73.6 | | Total Col2Ave (4 peaks): | | 79.9 | | RPD = 8 | |
| Corrected Ave (3 peaks): | | 33.1 | | Corrected Ave (3 peaks): | | 43.2 | | RPD = 26 | |

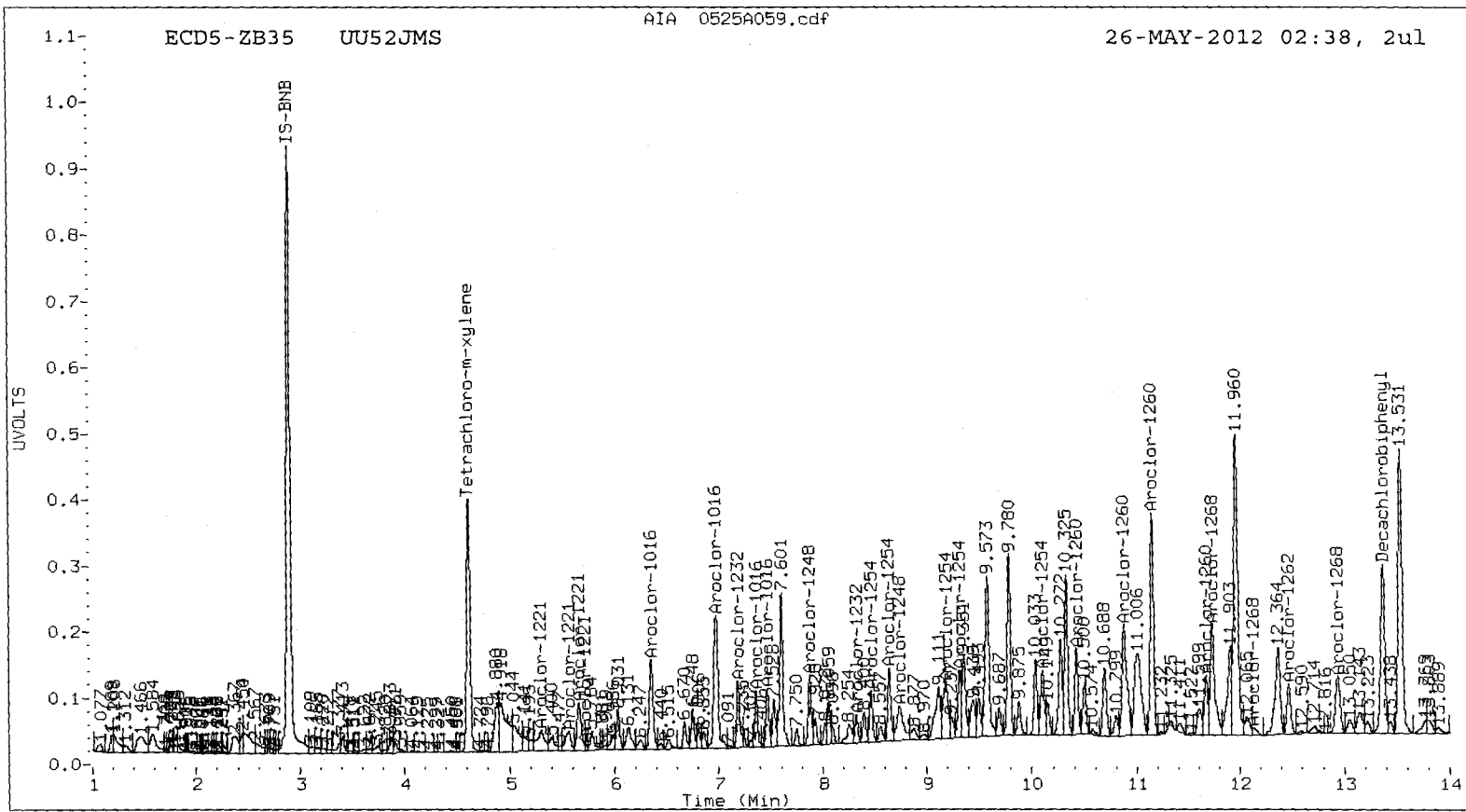
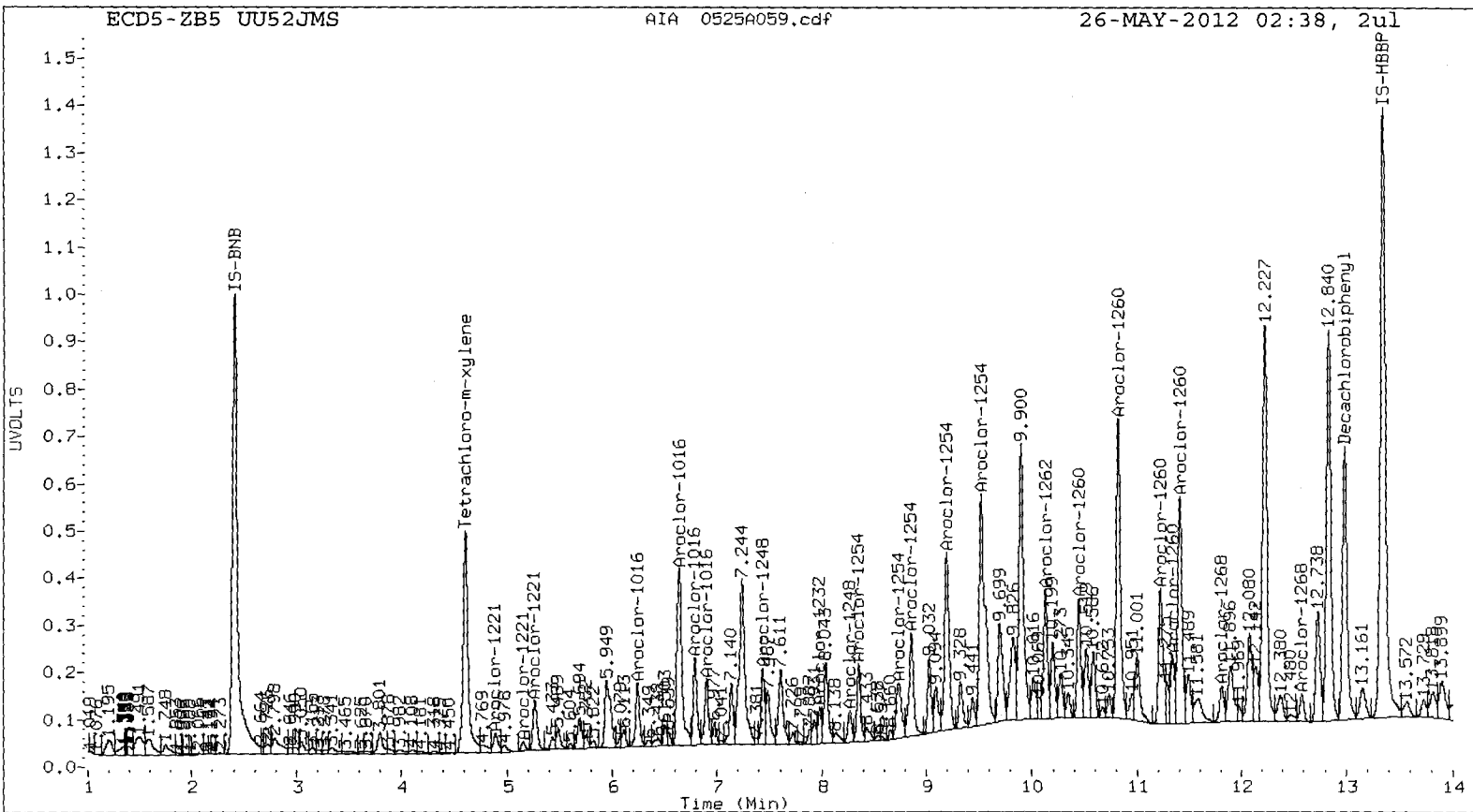
Total PCB Area Col1 (4.710 - 12.891) = 1737509586 Col1 Total PCB = 0.9 ppm*

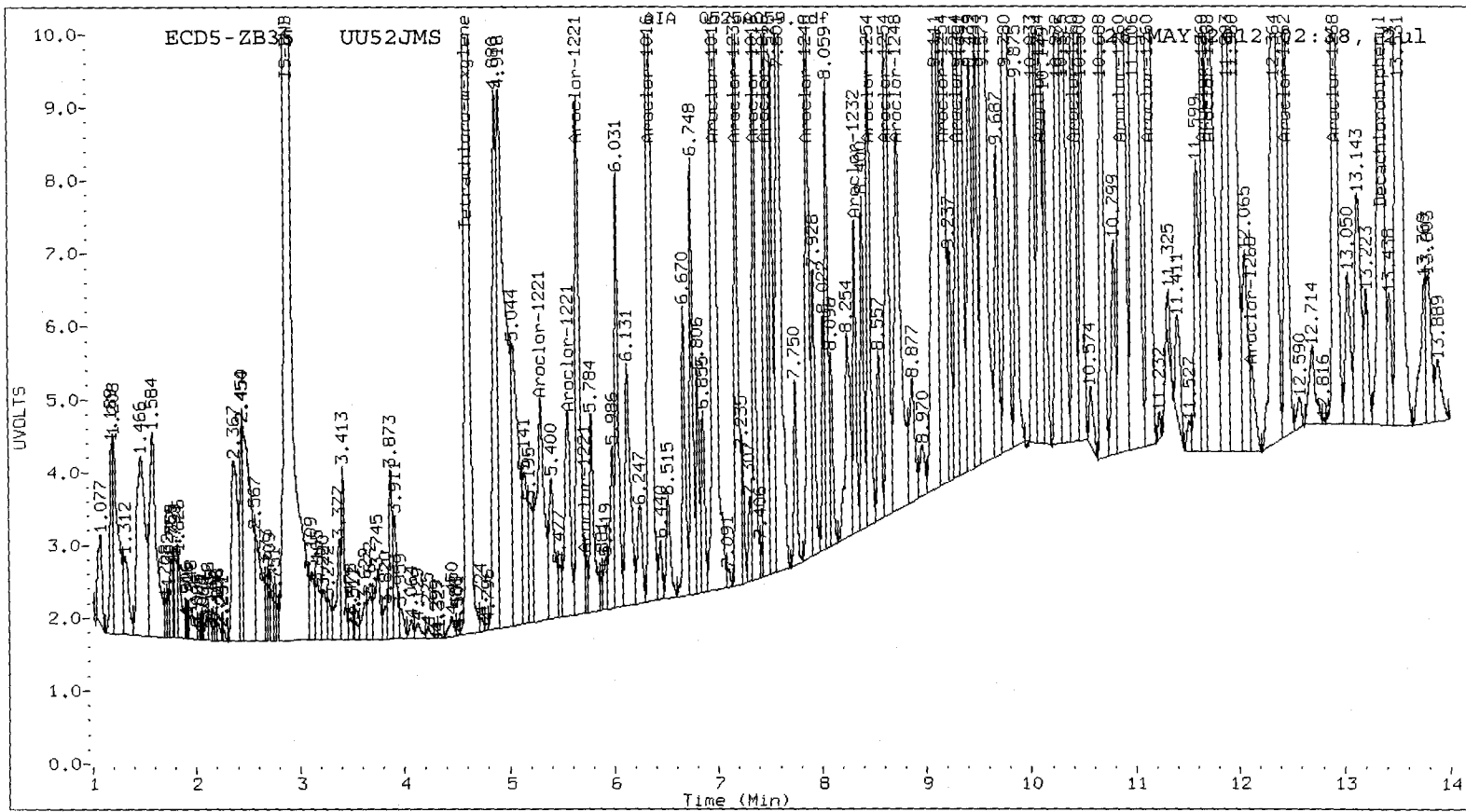
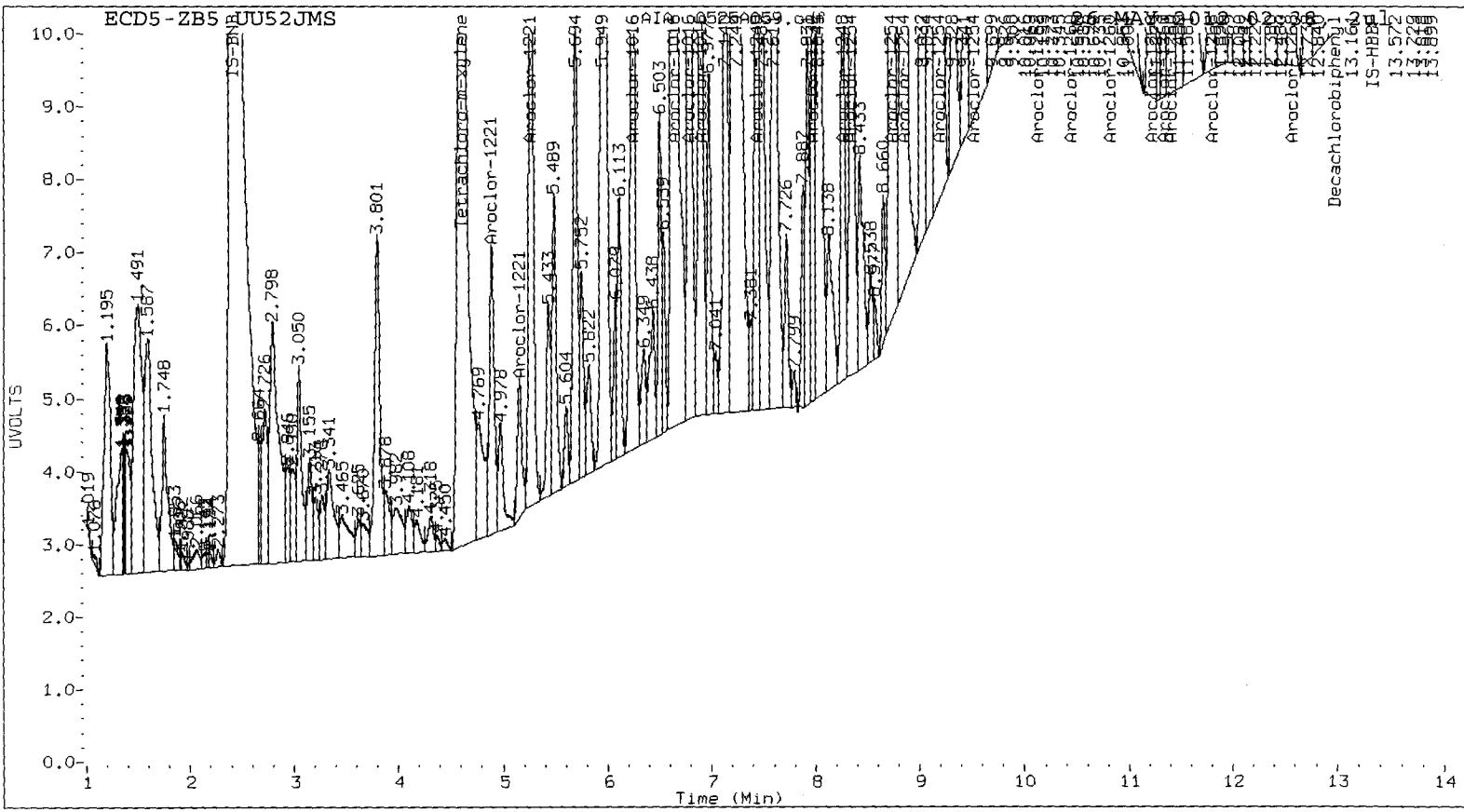
Total PCB Area Col2 (4.711 - 13.265) = 860408353 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01753





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A060.d
Data file 2: 20120523.b/0525-2.b/0525A060.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU52JMSD
Client ID:
Injection Date: 26-MAY-2012 02:57
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.612 | 0.002 73245610 | 4.613 | 0.002 38744008 | 28.7 | 25.8 | 10.6 | Tetrachloro-m-xylene |
| 12.992 | 0.001 80978083 | 13.366 | 0.000 34273996 | 26.3 | 35.4 | 29.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 71.8 | 64.6 |
| Decachlorobiphenyl | 65.9 | 88.5 |

JK 05/29/12

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 158624279 | 2.9 |
| Hexabromobiphenyl | 248602423 | 200326069 | -19.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 106578291 | -3.7 |
| Hexabromobiphenyl | 108855531 | 74927298 | -31.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|----------|----------|--------------------------|--------|--------|----------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.243 | 0.002 | 16933237 | 255.9 | 1 | 6.349 | 0.002 | 15504055 | 278.7 | |
| Aroclor-1016 | 2 | 6.643 | 0.001 | 61176409 | 283.6 | 2 | 6.973 | 0.000 | 26312803 | 208.4 | |
| Aroclor-1016 | 3 | 6.791 | 0.001 | 22857458 | 268.7 | 3 | 7.356 | 0.000 | 7674510 | 235.6 | |
| Aroclor-1016 | 4 | 6.901 | 0.001 | 17824238 | 265.9 | 4 | 7.464 | 0.000 | 8550195 | 236.1 | |
| Total CollAve (4 peaks): | | | | 268.5 | | Total Col2Ave (4 peaks): | | | | 239.7 | RPD = 11 |
| Corrected Ave (3 peaks): | | | | 263.5 | | Corrected Ave (3 peaks): | | | | 226.7 | RPD = 15 |
| Aroclor-1221 | 1 | 4.893 | 0.009 | 5890405 | 495.4 | 1 | 5.303 | 0.013 | 5071413 | 301.9 | |
| Aroclor-1221 | 2 | 5.159 | 0.006 | 2828767 | 147.8 | 2 | 5.563 | 0.027 | 3777963 | 380.7 | |
| Aroclor-1221 | 3 | 5.268 | 0.010 | 14602233 | 232.8 | 3 | 5.658 | 0.009 | 8718150 | 280.9 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.724 | 0.007 | 489326 | 86.1 | |
| Total CollAve (3 peaks): | | | | 292.0 | | Total Col2Ave (4 peaks): | | | | 262.4 | RPD = 11 |
| Corrected Ave (3 Peaks): | | | | < | | Corrected Ave (3 peaks): | | | | 223.0 | |
| Aroclor-1232 | 1 | 6.243 | 0.005 | 16933237 | 612.7 | 1 | 6.349 | 0.004 | 15504055 | 604.0 | |
| Aroclor-1232 | 2 | 6.643 | 0.004 | 61176409 | 665.5 | 2 | 6.973 | 0.002 | 26312803 | 489.6 | |
| Aroclor-1232 | 3 | 6.791 | 0.003 | 22857458 | 613.1 | 3 | 7.183 | 0.003 | 9872111 | 544.5 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 8158041 | 227.9 | 4 | 8.326 | 0.001 | 3778876 | 190.1 | |
| Total CollAve (4 peaks): | | | | 529.8 | | Total Col2Ave (4 peaks): | | | | 457.0 | RPD = 15 |
| Corrected Ave (3 peaks): | | | | 484.6 | | Corrected Ave (3 peaks): | | | | 408.1 | RPD = 17 |
| Aroclor-1242 | 1 | 6.243 | 0.001 | 16933237 | 339.1 | 1 | 6.349 | 0.001 | 15504055 | 356.5 | |
| Aroclor-1242 | 2 | 6.643 | 0.001 | 61176409 | 367.5 | 2 | 6.973 | -0.001 | 26312803 | 266.4 | |
| Aroclor-1242 | 3 | 6.791 | 0.000 | 22857458 | 344.1 | 3 | 7.183 | 0.001 | 9872111 | 246.1 | |
| Aroclor-1242 | 4 | 7.983 | 0.000 | 8158041 | 131.9 | 4 | 8.326 | -0.001 | 3778876 | 108.3 | |
| Total CollAve (4 peaks): | | | | 295.6 | | Total Col2Ave (4 peaks): | | | | 244.3 | RPD = 19 |
| Corrected Ave (3 peaks): | | | | 271.7 | | Corrected Ave (3 peaks): | | | | 206.9 | RPD = 27 |
| Aroclor-1248 | 1 | 6.643 | 0.003 | 61176409 | 549.3 | 1 | 6.973 | 0.002 | 26312803 | 411.2 | |
| Aroclor-1248 | 2 | 7.438 | 0.000 | 18080842 | 214.9 | 2 | 7.875 | 0.000 | 10455344 | 203.9 | |
| Aroclor-1248 | 3 | 7.983 | -0.001 | 8158041 | 75.7 | 3 | 8.326 | 0.000 | 3778876 | 61.3 | |
| Aroclor-1248 | 4 | 8.273 | -0.001 | 8423605 | 77.5 | 4 | 8.738 | -0.009 | 10108558 | 145.3 | |
| Total CollAve (4 peaks): | | | | 229.3 | | Total Col2Ave (4 peaks): | | | | 205.4 | RPD = 11 |
| Corrected Ave (3 peaks): | | | | 172.7 | | Corrected Ave (3 peaks): | | | | 136.8 | RPD = 11 |
| Aroclor-1254 | 1 | 8.358 | 0.002 | 19402629 | 133.2 | 1 | 8.466 | 0.000 | 7650073 | 163.5 | |
| Aroclor-1254 | 2 | 8.739 | 0.011 | 19839830 | 211.7 | 2 | 8.640 | 0.001 | 11414709 | 191.9 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 31463634 | 173.9 | 3 | 9.178 | 0.018 | 11415177 | 251.2 | |
| Aroclor-1254 | 4 | 9.197 | -0.016 | 54143584 | 277.9 | 4 | 9.311 | 0.001 | 9562646 | 95.1 | |
| Aroclor-1254 | 5 | 9.524 | -0.050 | 86651223 | 715.0 | 5 | 10.100 | 0.007 | 11194206 | 190.0 | |
| Total CollAve (5 peaks): | | | | 302.3 | | Total Col2Ave (5 peaks): | | | | 178.3 | RPD = 52* |
| Corrected Ave (4 peaks): | | | | 199.2 | | Corrected Ave (4 peaks): | | | | 160.1 | RPD = 22 |
| Aroclor-1260 | 1 | 10.445 | -0.002 | 30290875 | 278.7 | 1 | 10.422 | 0.000 | 12956990 | 301.5 | |
| Aroclor-1260 | 2 | 10.822 | 0.001 | 84924384 | 314.9 | 2 | 10.873 | 0.001 | 23498185 | 440.4 | |
| Aroclor-1260 | 3 | 11.219 | -0.001 | 46814230 | 312.3 | 3 | 11.146 | 0.001 | 35545857 | 328.1 | |
| Aroclor-1260 | 4 | 11.337 | 0.000 | 18848173 | 292.8 | 4 | 11.667 | 0.001 | 10172555 | 321.6 | |
| Aroclor-1260 | 5 | 11.407 | -0.003 | 62942553 | 819.0 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 403.5 | | Total Col2Ave (4 peaks): | | | | 347.9 | RPD = 15 |
| Corrected Ave (4 peaks): | | | | 299.7 | | Corrected Ave (3 peaks): | | | | 317.1 | RPD = 6 |
| Aroclor-1262 | 1 | 10.131 | 0.003 | 35685337 | 223.5 | 1 | 10.422 | 0.003 | 12956990 | 184.6 | |
| Aroclor-1262 | 2 | 10.445 | 0.001 | 30290875 | 248.3 | 2 | 10.873 | 0.003 | 23498185 | 388.2 | |
| Aroclor-1262 | 3 | 10.822 | 0.003 | 84924384 | 254.7 | 3 | 11.146 | 0.003 | 35545857 | 258.6 | |
| Aroclor-1262 | 4 | 11.337 | 0.003 | 18848173 | 154.7 | 4 | 11.667 | 0.003 | 10172555 | 184.0 | |
| Aroclor-1262 | 5 | 11.407 | 0.000 | 62942553 | 454.3 | 5 | 12.465 | 0.003 | 9584529 | 186.1 | |
| Total CollAve (5 peaks): | | | | 267.1 | | Total Col2Ave (5 peaks): | | | | 240.3 | RPD = 11 |
| Corrected Ave (4 peaks): | | | | 220.3 | | Corrected Ave (4 peaks): | | | | 203.3 | RPD = 8 |
| Aroclor-1268 | 1 | 11.337 | 0.001 | 18848173 | 55.3 | 1 | 11.667 | 0.003 | 10172555 | 71.1 | |
| Aroclor-1268 | 2 | 11.407 | 0.000 | 62942553 | 183.5 | 2 | 11.727 | -0.003 | 25037280 | 185.7 | |

| | | | | | | | | | |
|--------------------------|--------|-------|----------|--------------------------|---|--------|--------|----------|----------|
| Aroclor-1268 3 | 11.811 | 0.019 | 10483862 | 36.6 | 3 | 12.127 | -0.001 | 1192750 | 10.5 |
| Aroclor-1268 4 | 12.585 | 0.000 | 8093425 | 9.6 | 4 | 12.936 | -0.013 | 11843884 | 37.0 |
| Total Col1Ave (4 peaks): | | | 71.3 | Total Col2Ave (4 peaks): | | | | 76.1 | RPD = 7 |
| Corrected Ave (3 peaks): | | | 33.8 | Corrected Ave (3 peaks): | | | | 39.6 | RPD = 16 |

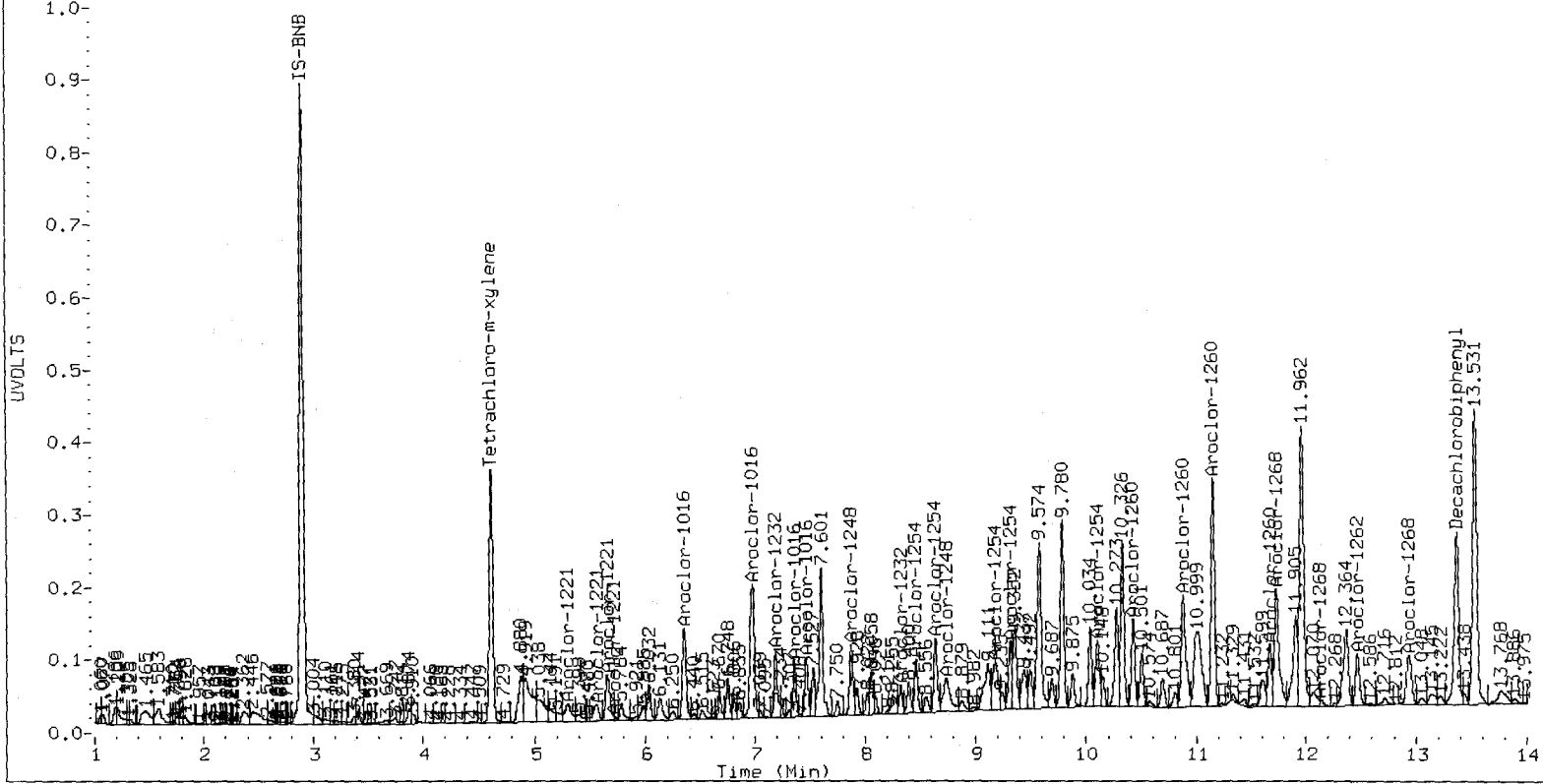
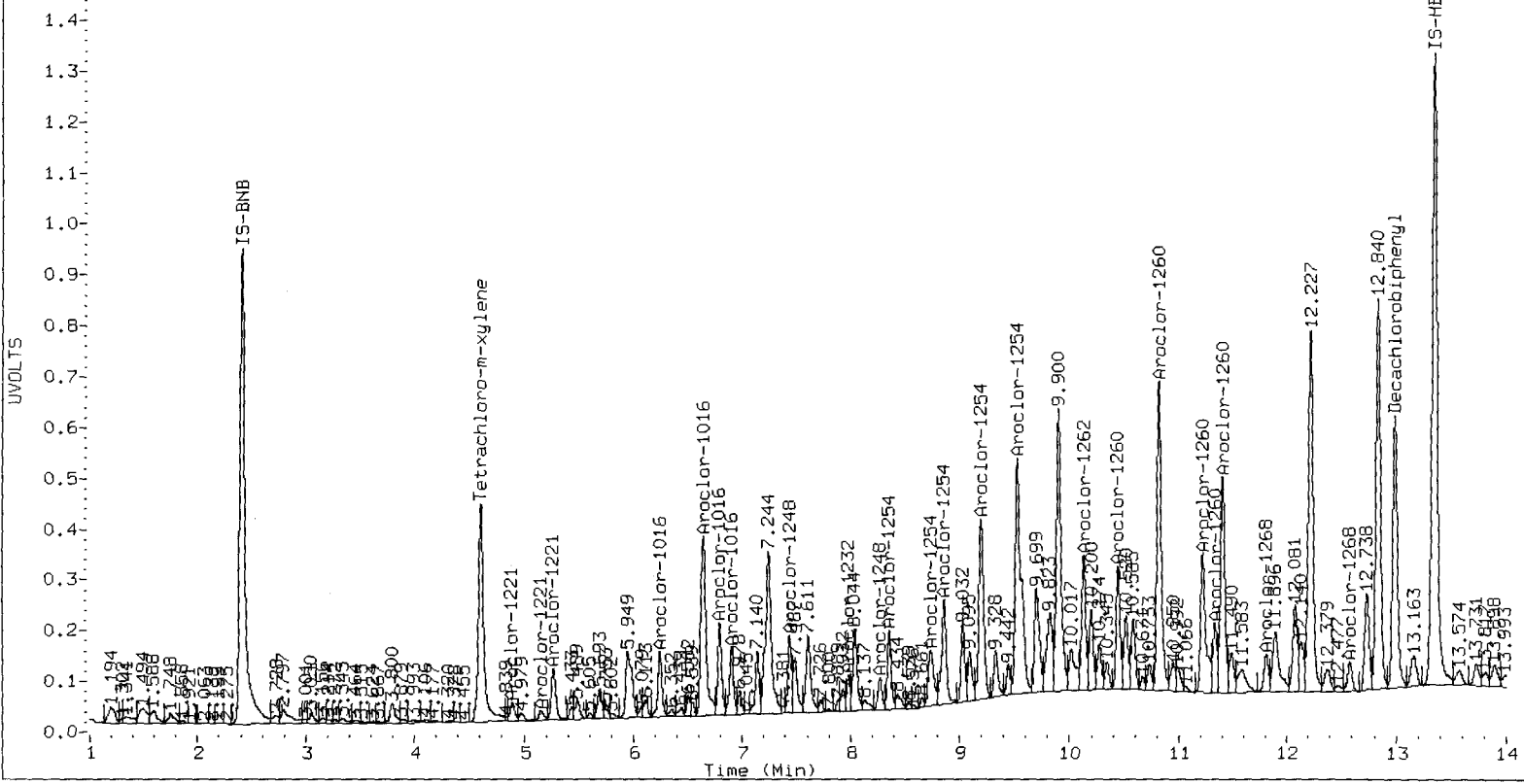
Total PCB Area Col1 (4.710 - 12.891) = 1598251164 Col1 Total PCB = 0.8 ppm*

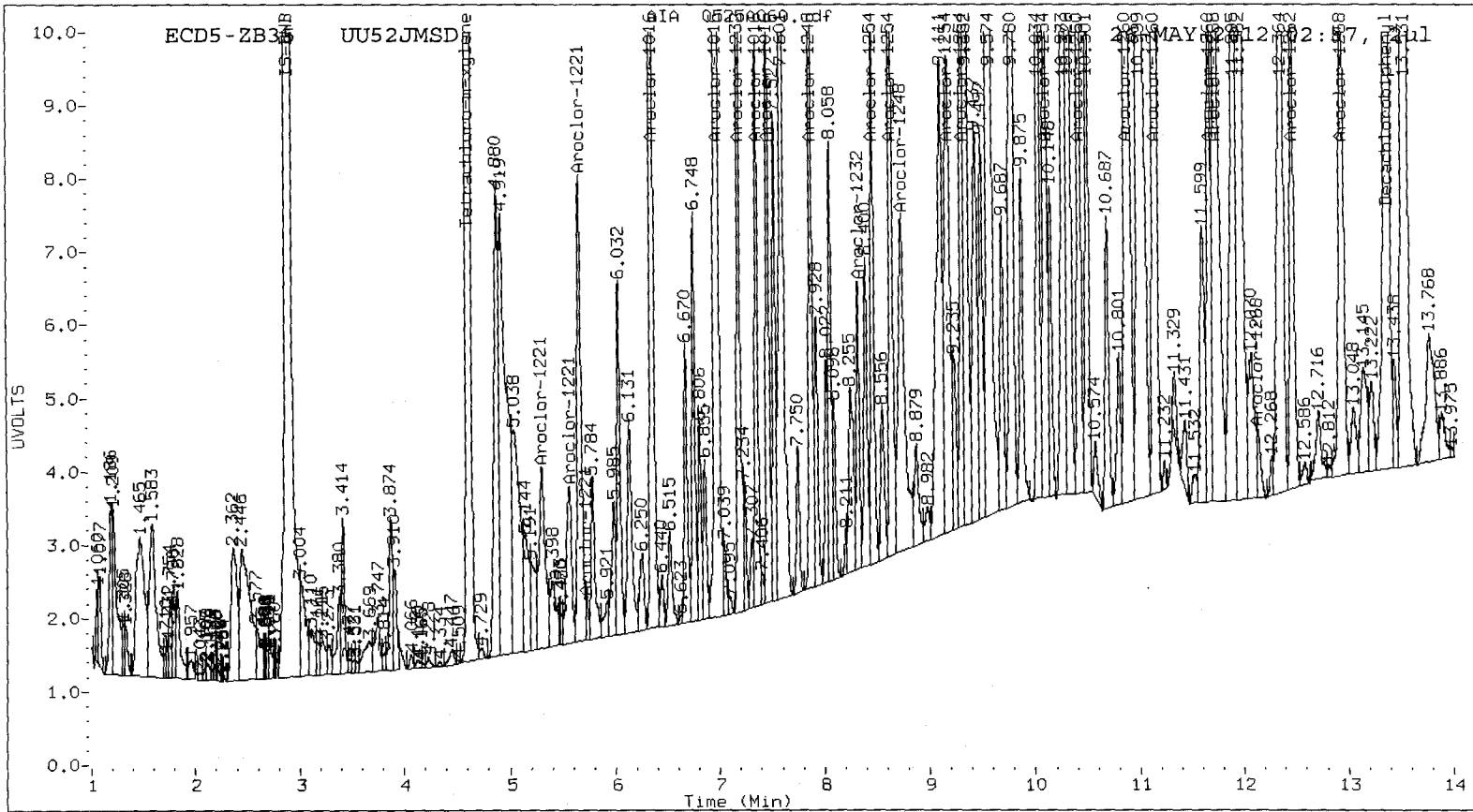
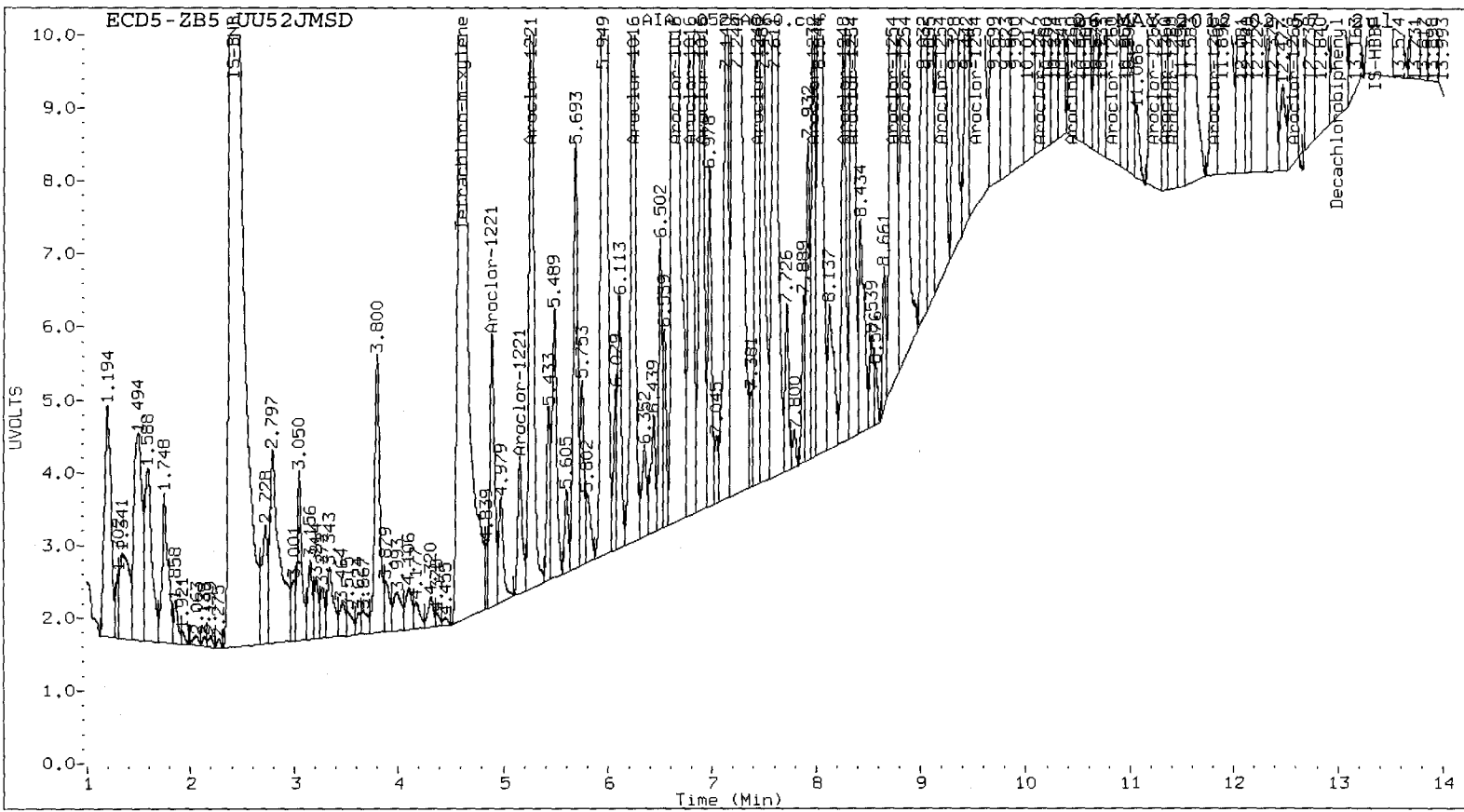
Total PCB Area Col2 (4.711 - 13.265) = 749455991 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01765





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A061.d
Data file 2: 20120523.b/0525-2.b/0525A061.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 26-MAY-2012 03:16
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|--------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.611 | 0.001 | 55664977 | 4.612 | 0.001 | 34866180 | 19.2 | 19.4 | 0.9 | Tetrachloro-m-xylene |
| 12.992 | 0.001 | 54024042 | 13.364 | -0.001 | 20644898 | 17.1 | 18.5 | 8.2 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 48.1 | 48.5 |
| Decachlorobiphenyl | 42.7 | 46.4 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 180219526 | 16.9 |
| Hexabromobiphenyl | 248602423 | 206032453 | -17.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 127736774 | 15.5 |
| Hexabromobiphenyl | 108855531 | 86154804 | -20.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|-------|----------|--------------------------|-------|-------|-------|----------|---------|--|
| Aroclor-1248 | 1 | 6.640 | 0.000 | 29413471 | 232.5 | 1 | 6.971 | 0.000 | 17185958 | 224.1 | |
| Aroclor-1248 | 2 | 7.438 | 0.000 | 21281056 | 222.6 | 2 | 7.875 | 0.000 | 12818572 | 208.6 | |
| Aroclor-1248 | 3 | 7.984 | 0.000 | 26867900 | 219.4 | 3 | 8.327 | 0.000 | 15618957 | 211.4 | |
| Aroclor-1248 | 4 | 8.274 | 0.000 | 25967189 | 210.2 | 4 | 8.747 | 0.000 | 17004290 | 203.9 | |
| Total Col1Ave (4 peaks): | | | | 221.2 | Total Col2Ave (4 peaks): | | | | 212.0 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 217.4 | Corrected Ave (3 peaks): | | | | 207.9 | RPD = 4 | |

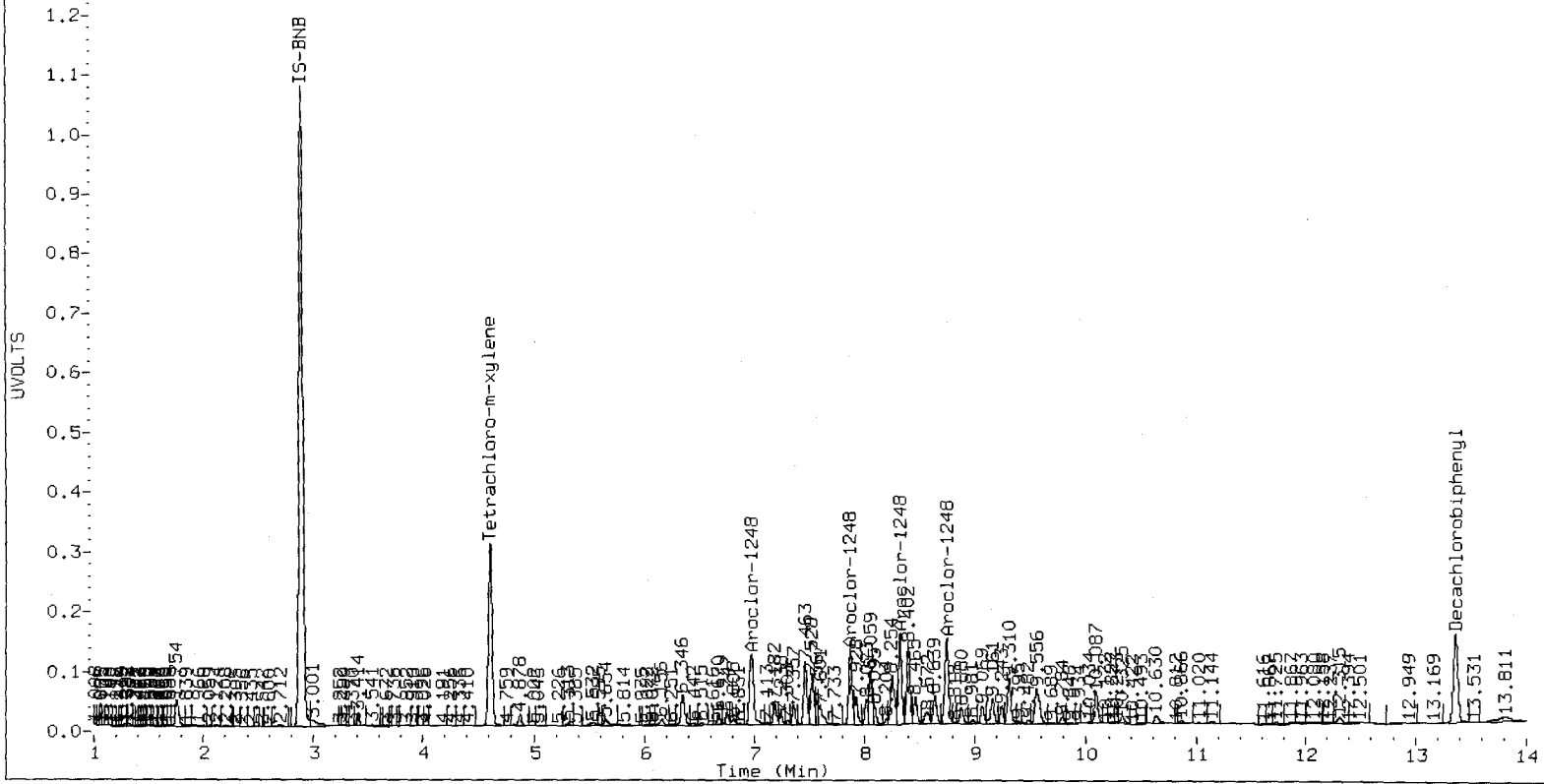
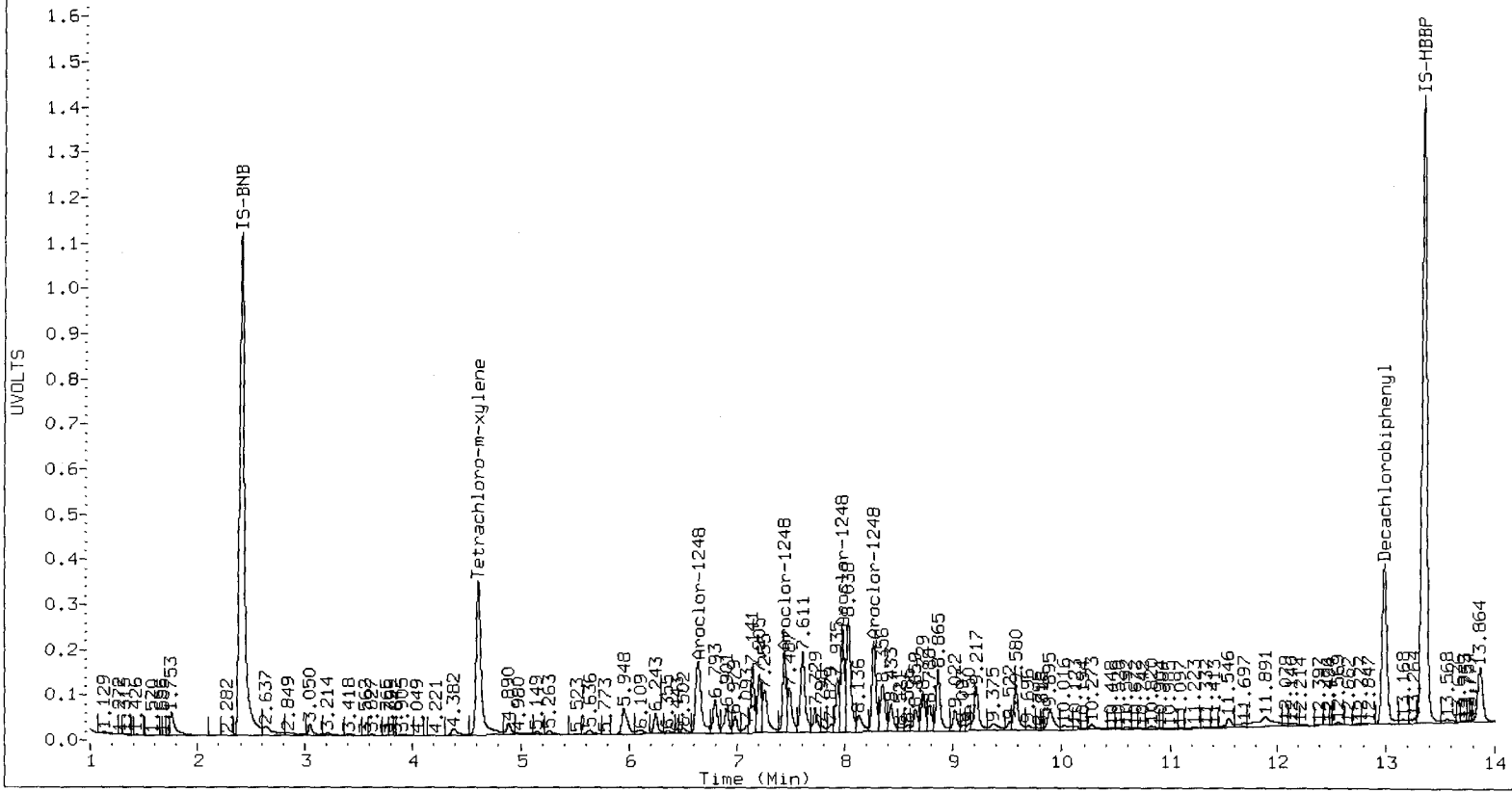
Total PCB Area Col1 (4.710 - 12.891) = 486178736

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 234297744

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0525-1.b/0525A062.d
Data file 2: 20120523.b/0525-2.b/0525A062.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 26-MAY-2012 03:35
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.610 | 0.000 | 59864883 | 4.611 | 0.000 | 37720720 | 19.9 | 20.2 | 1.4 | Tetrachloro-m-xylene |
| 12.991 | 0.000 | 60484239 | 13.365 | 0.000 | 22807990 | 17.8 | 19.2 | 7.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 49.8 | 50.5 |
| Decachlorobiphenyl | 44.5 | 48.1 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 186870454 | 21.2 |
| Hexabromobiphenyl | 248602423 | 221590214 | -10.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 132614849 | 19.9 |
| Hexabromobiphenyl | 108855531 | 91835798 | -15.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|----------|--------|--------------------------|--------|-------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.241 | 0.000 | 18639965 | 239.1 | 1 | 6.347 | 0.000 | 16454009 | 237.7 | |
| Aroclor-1016 | 2 | 6.642 | 0.000 | 61801836 | 243.2 | 2 | 6.974 | 0.000 | 37504534 | 238.7 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 25328770 | 252.7 | 3 | 7.356 | 0.000 | 9218884 | 227.4 | |
| Aroclor-1016 | 4 | 6.900 | 0.000 | 19132307 | 242.3 | 4 | 7.463 | 0.000 | 10124031 | 224.6 | |
| Total CollAve (4 peaks): | | | | 244.3 | | Total Col2Ave (4 peaks): | | | | 232.1 | RPD = 5 |
| Corrected Ave (3 peaks): | | | | 241.5 | | Corrected Ave (3 peaks): | | | | 229.9 | RPD = 5 |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.447 | 0.000 | 31861107 | 265.0 | 1 | 10.422 | 0.000 | 12315712 | 233.8 | |
| Aroclor-1260 | 2 | 10.821 | 0.000 | 75919821 | 254.5 | 2 | 10.872 | 0.000 | 17648866 | 269.9 | |
| Aroclor-1260 | 3 | 11.221 | 0.000 | 39255507 | 236.7 | 3 | 11.145 | 0.000 | 35124002 | 264.5 | |
| Aroclor-1260 | 4 | 11.337 | 0.000 | 16446171 | 231.0 | 4 | 11.666 | 0.000 | 9198188 | 237.2 | |
| Aroclor-1260 | 5 | 11.411 | 0.000 | 20212782 | 237.8 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 245.0 | | Total Col2Ave (4 peaks): | | | | 251.4 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 240.0 | | Corrected Ave (3 peaks): | | | | 245.2 | RPD = 2 |

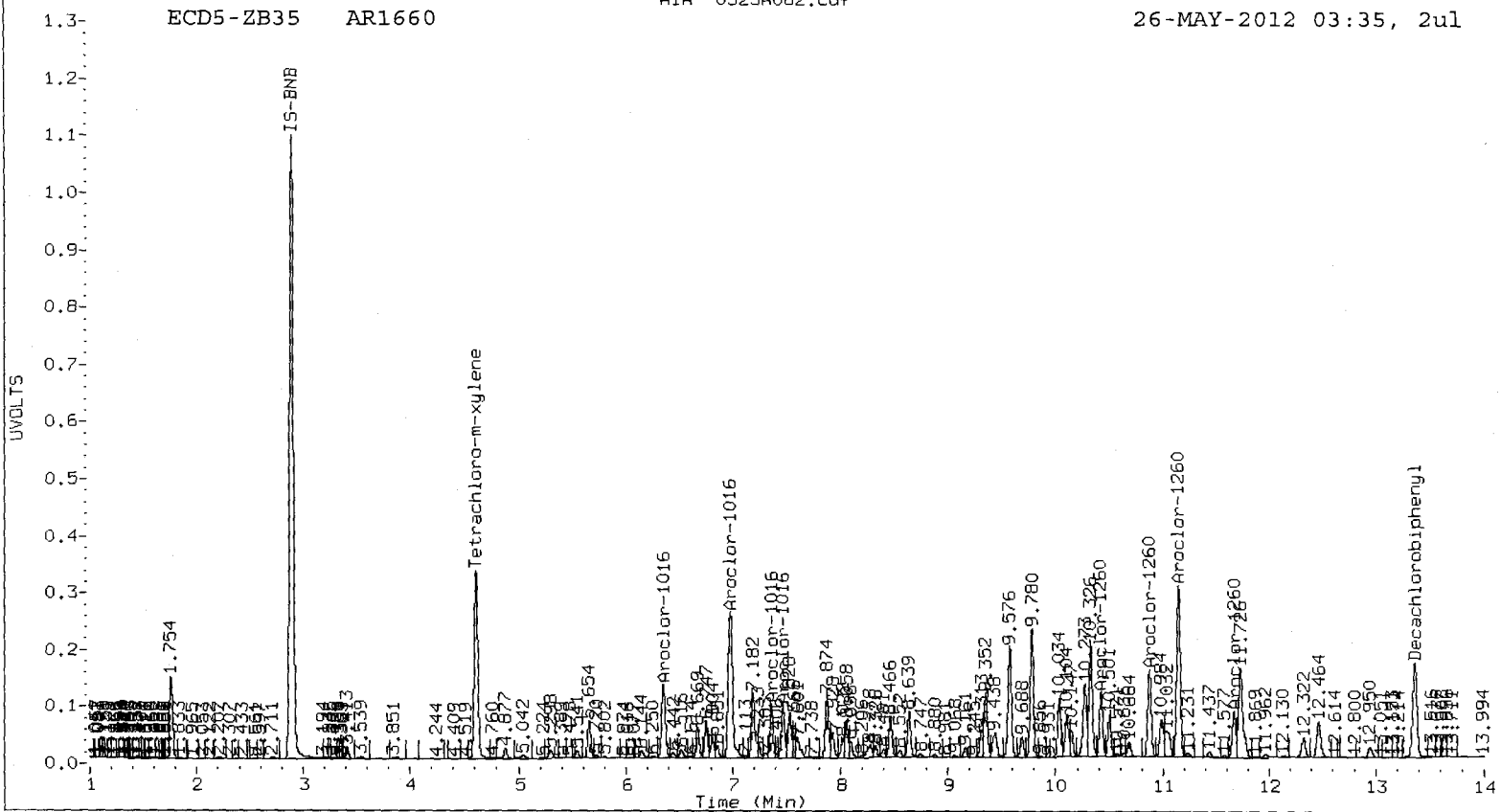
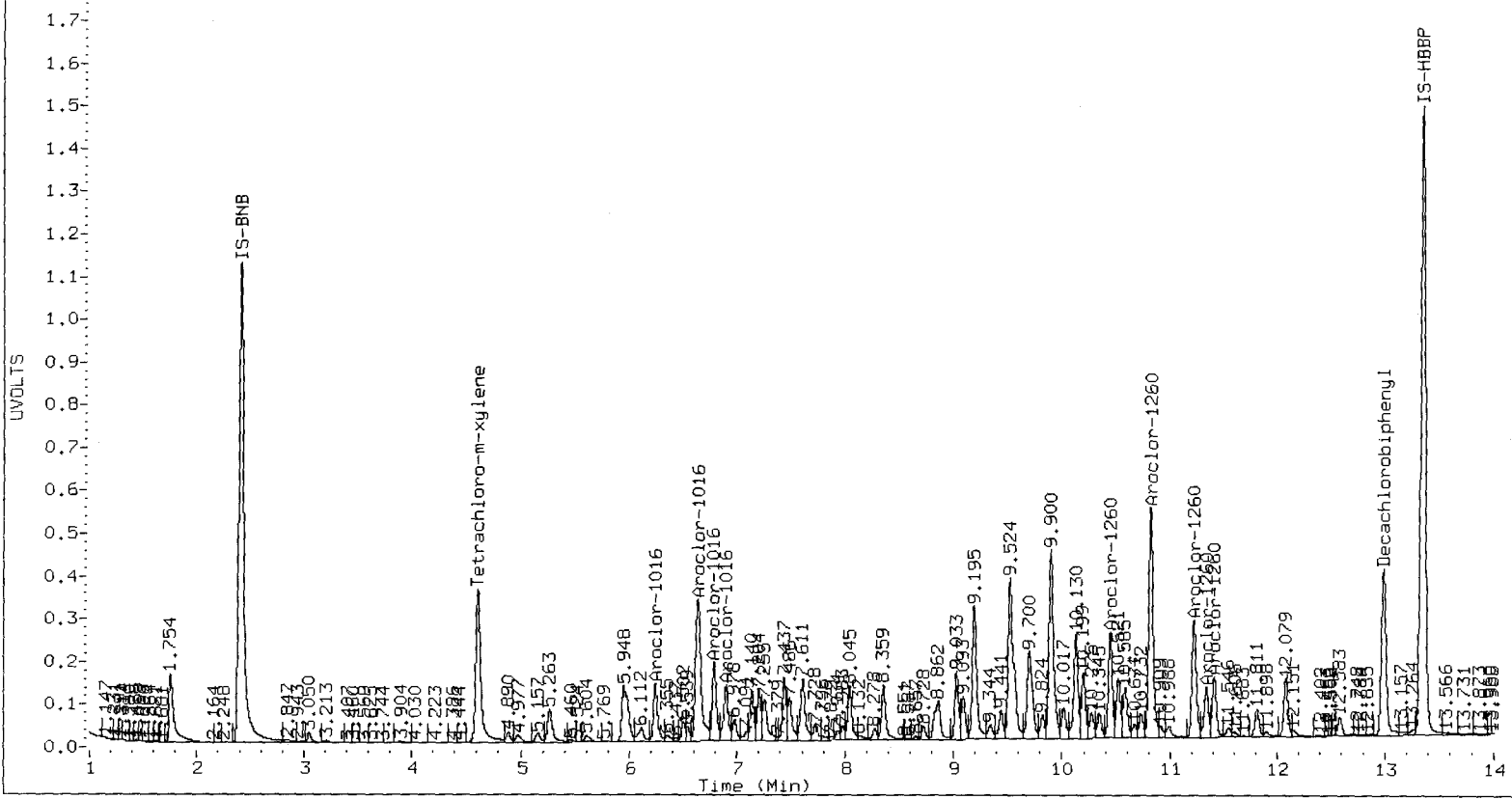
Total PCB Area Col1 (4.710 - 12.891) = 1024685832

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.711 - 13.265) = 482305083

Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A047.d

ARI ID: UU52A

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.356 | 0.035 | 17089718 | 8.738 | 0.012 | 10802374 | 0.011 | 0.014 | 25.1 | 2,4-DDE |
| 8.863 | -0.007 | 56721812 | 9.413 | 0.003 | 4587197 | 0.038 | 0.007 | 140.3* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.876 | 0.004 | 19226213 | 0.000 | 0.020# | ---- | 2,4-DDT |
| 8.749 | -0.004 | 45076245 | 9.113 | 0.001 | 17158740 | 0.018 | 0.013 | 29.7 | 4,4-DDE |
| 9.325 | 0.000 | 46852565 | 9.876 | 0.004 | 19226213 | 0.023 | 0.020# | 12.3 | 4,4-DDD |
| 9.831 | -0.006 | 15991071 | 10.325 | 0.014 | 14423810 | 0.007 | 0.013 | 59.4* | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A048.d

ARI ID: UU52B

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.356 | 0.035 | 17482321 | 8.739 | 0.012 | 10903865 | 0.010 | 0.013 | 27.3 | 2,4-DDE |
| 8.863 | -0.008 | 50460894 | 9.412 | 0.003 | 2971081 | 0.030 | 0.004 | 153.2* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.876 | 0.004 | 11216137 | 0.000 | 0.011# | ---- | 2,4-DDT |
| 8.749 | -0.004 | 45892421 | 9.113 | 0.001 | 17149939 | 0.016 | 0.012 | 28.1 | 4,4-DDE |
| 9.325 | 0.000 | 29954977 | 9.876 | 0.004 | 11216137 | 0.013 | 0.011# | 17.9 | 4,4-DDD |
| 9.831 | -0.006 | 16804358 | 10.325 | 0.015 | 13853647 | 0.006 | 0.011 | 54.4* | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A049.d

ARI ID: UU52C

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.357 | 0.036 | 14753357 | 8.737 | 0.011 | 11267844 | 0.009 | 0.014 | 44.5* | 2,4-DDE |
| 8.863 | -0.007 | 60229432 | 9.413 | 0.004 | 4767357 | 0.037 | 0.006 | 140.8* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.877 | 0.005 | 16691989 | 0.000 | 0.017# | ---- | 2,4-DDT |
| 8.749 | -0.004 | 41231070 | 9.113 | 0.000 | 16959648 | 0.015 | 0.012 | 21.1 | 4,4-DDE |
| 9.326 | 0.001 | 41484704 | 9.877 | 0.005 | 16691989 | 0.019 | 0.017# | 13.2 | 4,4-DDD |
| 9.829 | -0.009 | 20343304 | 10.325 | 0.014 | 13455883 | 0.008 | 0.011 | 31.1 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A050.d

ARI ID: UU52D

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | RT | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|-------|---------------------------|----------------------------|-------|---------------|----------------|---------|---------------|
| 8.356 | 0.035 13231699 | 8.739 0.013 9525582 | 0.007 | 0.011 | 37.7 | 2,4-DDE | |
| 8.863 | -0.008 54186126 | 9.413 0.004 4455071 | 0.031 | 0.006 | 139.5* | 2,4-DDD | |
| 0.000 | -9.375 0 | 9.875 0.003 15011970 | 0.000 | 0.014# | ---- | 2,4-DDT | |
| 8.748 | -0.006 39114208 | 9.112 0.000 14593374 | 0.014 | 0.010 | 31.8 | 4,4-DDE | |
| 9.325 | 0.001 42095503 | 9.875 0.003 15011970 | 0.018 | 0.014# | 26.3 | 4,4-DDD | |
| 9.827 | -0.011 24101218 | 10.325 0.014 9212364 | 0.009 | 0.007 | 24.6 | 4,4-DDT | |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

UU52: 01778

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A051.d

ARI ID: U052E

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.356 | 0.035 | 8762168 | 8.738 | 0.012 | 7770144 | 0.005 | 0.010 | 68.9* | 2,4-DDE |
| 8.862 | -0.008 | 47878859 | 9.414 | 0.005 | 3247790 | 0.028 | 0.005 | 142.7* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.876 | 0.004 | 10658727 | 0.000 | 0.011# | ---- | 2,4-DDT |
| 8.745 | -0.008 | 32480734 | 9.113 | 0.001 | 12535540 | 0.012 | 0.010 | 15.8 | 4,4-DDE |
| 9.325 | 0.000 | 27743649 | 9.876 | 0.004 | 10658727 | 0.012 | 0.011# | 6.1 | 4,4-DDD |
| 9.831 | -0.007 | 17389065 | 10.324 | 0.014 | 7113444 | 0.007 | 0.006 | 5.1 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A052.d

ARI ID: UU52F

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.356 | 0.035 | 9399732 | 8.740 | 0.014 | 8742323 | 0.005 | 0.010 | 72.1* | 2,4-DDE |
| 8.863 | -0.008 | 40699535 | 9.413 | 0.003 | 2164367 | 0.022 | 0.003 | 154.1* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.875 | 0.003 | 7683177 | 0.000 | 0.007# | ---- | 2,4-DDT |
| 8.750 | -0.003 | 25113574 | 9.113 | 0.000 | 12906024 | 0.008 | 0.009 | 11.7 | 4,4-DDE |
| 9.325 | 0.000 | 22278320 | 9.875 | 0.003 | 7683177 | 0.009 | 0.007# | 18.0 | 4,4-DDD |
| 9.838 | 0.001 | 15993150 | 10.324 | 0.013 | 7420892 | 0.006 | 0.006 | 6.4 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A053.d

ARI ID: UU52G

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|-------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.355 | 0.034 | 18650269 | 8.737 | 0.011 | 8033654 | 0.009 | 0.010 | 11.5 | 2,4-DDE |
| 8.865 | -0.005 | 49650099 | 9.412 | 0.002 | 7739212 | 0.024 | 0.011 | 79.2* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.877 | 0.005 | 43285684 | 0.000 | 0.043# | ---- | 2,4-DDT |
| 8.751 | -0.002 | 47509712 | 9.113 | 0.001 | 19822376 | 0.014 | 0.015 | 3.8 | 4,4-DDE |
| 9.326 | 0.001 | 98576406 | 9.877 | 0.005 | 43285684 | 0.036 | 0.043# | 19.0 | 4,4-DDD |
| 9.837 | -0.001 | 15085451 | 10.323 | 0.012 | 11277353 | 0.005 | 0.009 | 64.7* | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A056.d

ARI ID: UU52H

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|-------|---------------------------|----------------------------|---------------|----------------|--------|---------------|
| 8.351 | 0.030 24451011 | 8.776 0.050 21999216 | 0.012 | 0.025 | 66.0* | 2,4-DDE |
| 8.865 | -0.006 43604358 | 9.412 0.003 6684271 | 0.023 | 0.008 | 94.1* | 2,4-DDD |
| 9.387 | 0.012 9042567 | 9.876 0.004 32147787 | 0.004 | 0.029# | 152.2* | 2,4-DDT |
| 8.752 | -0.001 108994224 | 9.113 0.001 52674002 | 0.035 | 0.035 | 1.9 | 4,4-DDE |
| 9.325 | 0.000 67284029 | 9.876 0.004 32147787 | 0.026 | 0.029# | 10.9 | 4,4-DDD |
| 9.836 | -0.002 25588072 | 10.321 0.010 15783229 | 0.009 | 0.012 | 31.0 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A057.d

ARI ID: UU52I

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|-------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.356 | 0.035 | 10470549 | 8.737 | 0.011 | 10357626 | 0.005 | 0.011 | 67.7* | 2,4-DDE |
| 8.863 | -0.007 | 29985139 | 9.418 | 0.009 | 1245190 | 0.016 | 0.001 | 166.8* | 2,4-DDD |
| 0.000 | -9.375 | 0 | 9.876 | 0.004 | 4544954 | 0.000 | 0.004# | ---- | 2,4-DDT |
| 8.746 | -0.007 | 28395672 | 9.112 | 0.000 | 13201841 | 0.009 | 0.008 | 9.5 | 4,4-DDE |
| 9.327 | 0.002 | 16267310 | 9.876 | 0.004 | 4544954 | 0.006 | 0.004# | 49.2* | 4,4-DDD |
| 9.825 | -0.013 | 22862699 | 10.324 | 0.014 | 7606877 | 0.008 | 0.005 | 37.5 | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: 20120523.b/ddt-1.b/0525A058.d

ARI ID: UU52J

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|--------|----------|----------|--------|----------|--------|--------|--------|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 8.357 | 0.036 | 8509548 | 8.739 | 0.012 | 9604640 | 0.005 | 0.010 | 73.7* | 2,4-DDE |
| 8.864 | -0.007 | 24918556 | 9.423 | 0.013 | 1731580 | 0.014 | 0.002 | 150.2* | 2,4-DDD |
| 9.390 | 0.015 | 2395190 | 9.874 | 0.002 | 4994191 | 0.001 | 0.004# | 116.0* | 2,4-DDT |
| 8.746 | -0.008 | 22622347 | 9.111 | -0.001 | 11806658 | 0.008 | 0.007 | 4.3 | 4,4-DDE |
| 9.325 | 0.000 | 13885326 | 9.874 | 0.002 | 4994191 | 0.006 | 0.004# | 31.1 | 4,4-DDD |
| 9.825 | -0.013 | 31539621 | 10.324 | 0.014 | 6669175 | 0.011 | 0.005 | 84.1* | 4,4-DDT |

Indicates value is from co-eluting peaks

* Indicates RPD > 40%



GC Analyst Notes / Corrective Action Log

ARI Project ID: UU62 Client ID: ANALYT DE A

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): PCBs

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/23/12 Analysis Start: 5/23/12

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

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

Sample J: DEBP surr. recovery below ac due to heavy emulsion. (see extraction analyst notes).

Additional Details on Reverse: Yes / No

Analyst: YZ Date: 5/24/12

Reviewer: [Signature] Date: 5/24

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A032.d
Data file 2: 20120523.b/0523-2.b/0523A032.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 23-MAY-2012 20:17
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.610 | 0.002 | 50812075 | 4.611 | 0.002 | 31728329 | 20.0 | 20.1 | 0.3 | Tetrachloro-m-xylene |
| 12.990 | 0.000 | 66607044 | 13.364 | 0.000 | 25849060 | 18.6 | 19.3 | 3.6 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.0 | 50.2 |
| Decachlorobiphenyl | 46.5 | 48.2 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 157953737 | 2.4 |
| Hexabromobiphenyl | 248602423 | 233547465 | -6.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 112376967 | 1.6 |
| Hexabromobiphenyl | 108855531 | 103819809 | -4.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|-------|-------|----------|--------|---------|
| Aroclor-1248 | 1 | 6.639 | 0.000 | 27232969 | 245.6 | 1 | 6.970 | 0.000 | 16320102 | 241.9 | |
| Aroclor-1248 | 2 | 7.437 | 0.000 | 19997447 | 238.7 | 2 | 7.875 | 0.000 | 12386028 | 229.1 | |
| Aroclor-1248 | 3 | 7.983 | 0.000 | 26241490 | 244.5 | 3 | 8.327 | 0.000 | 15018975 | 231.0 | |
| Aroclor-1248 | 4 | 8.273 | 0.000 | 26247550 | 242.4 | 4 | 8.748 | 0.000 | 17621276 | 240.1 | |
| Total Col1Ave (4 peaks): | | | | 242.8 | | Total Col2Ave (4 peaks): | | | | 235.5 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 241.9 | | Corrected Ave (3 peaks): | | | | 233.4 | RPD = 4 |

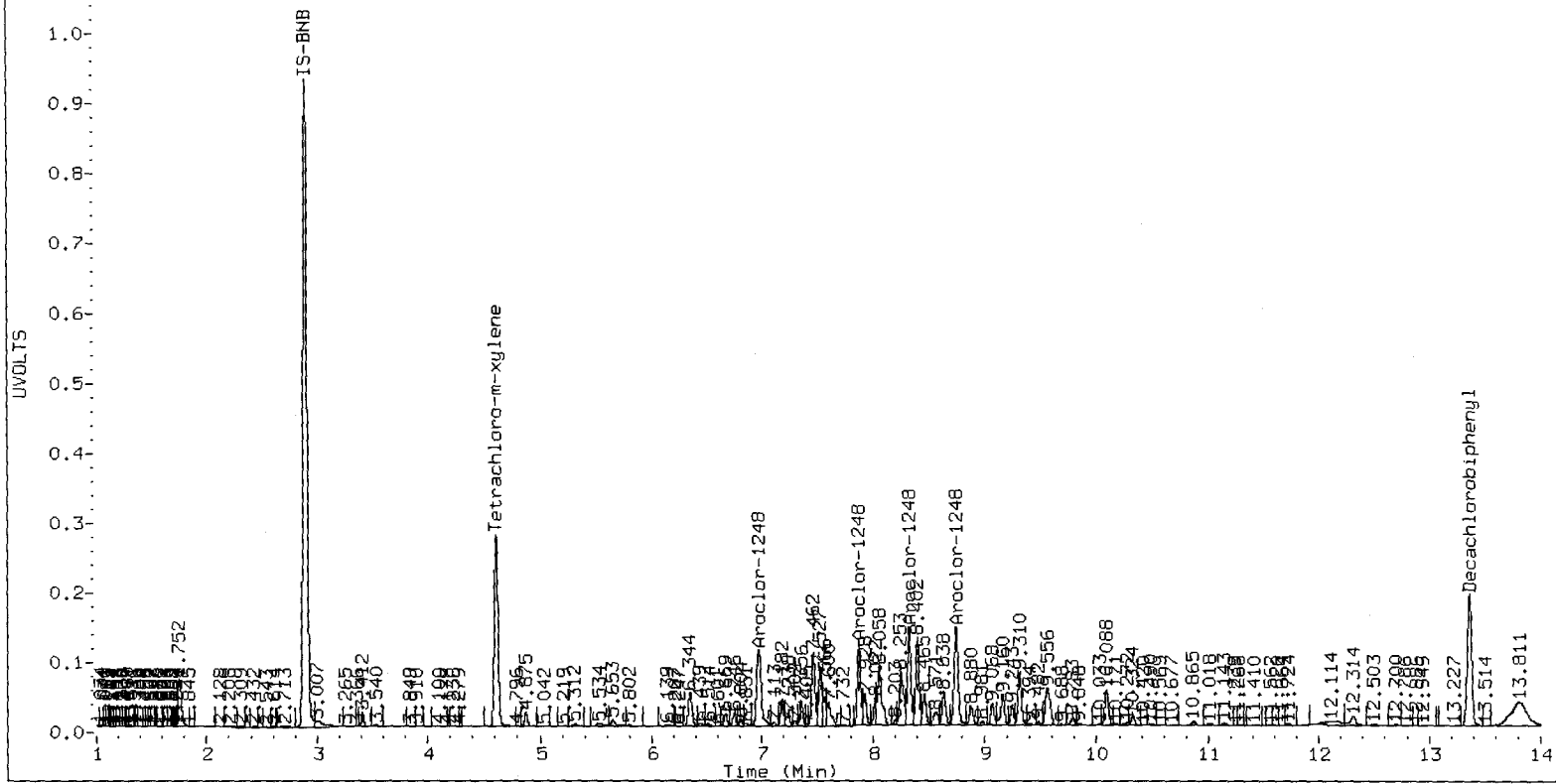
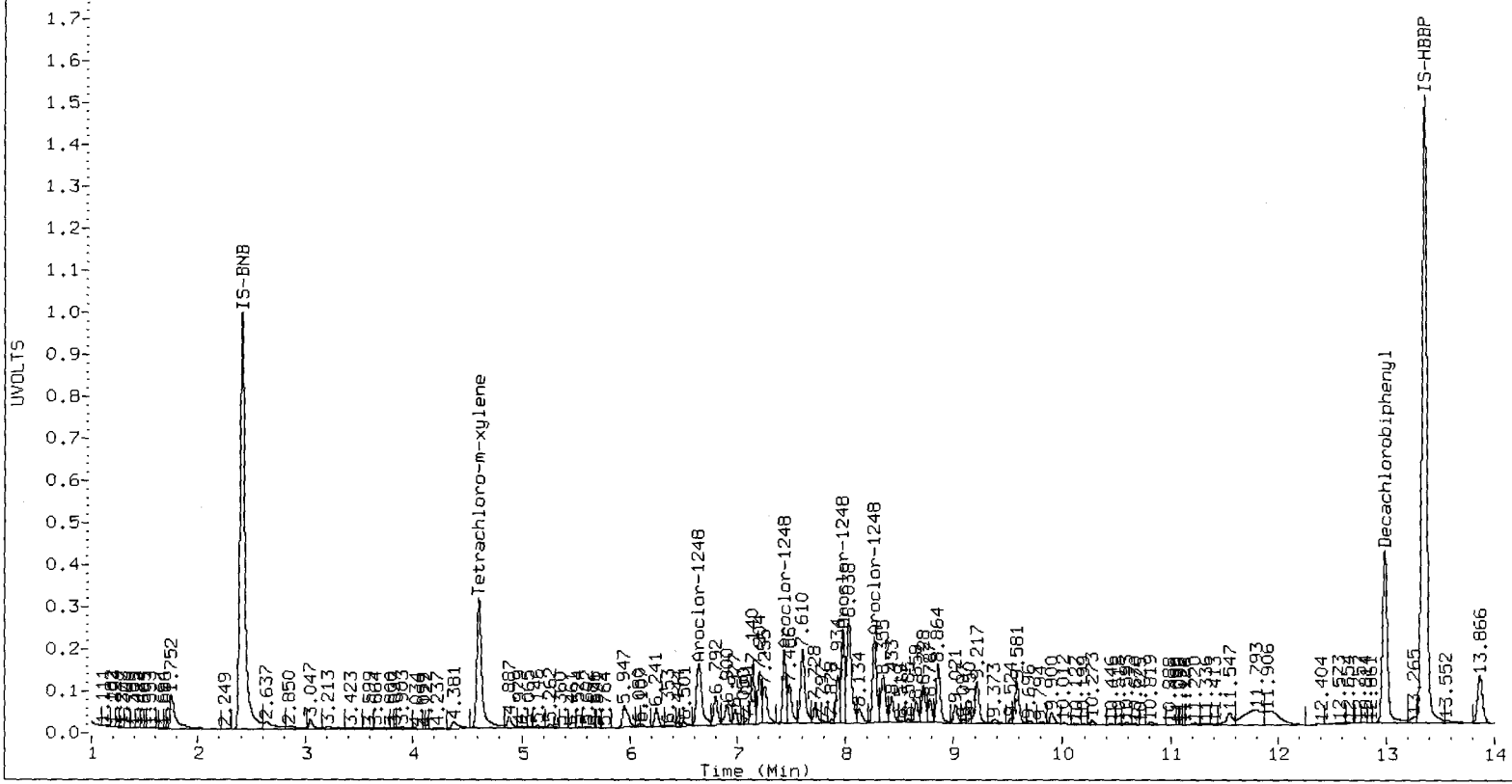
Total PCB Area Col1 (4.708 - 12.891) = 456397264

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 226545406

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A033.d
Data file 2: 20120523.b/0523-2.b/0523A033.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 23-MAY-2012 20:37
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|-----|----------------------|
| 4.608 | 0.000 52582348 | 4.607 -0.001 33060233 | 20.0 | 20.3 | 1.6 | Tetrachloro-m-xylene |
| 12.991 | 0.000 69890847 | 13.364 0.000 27438903 | 18.7 | 20.0 | 6.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.1 | 50.9 |
| Decachlorobiphenyl | 46.7 | 50.0 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 163348755 | 5.9 |
| Hexabromobiphenyl | 248602423 | 243593184 | -2.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 115501356 | 4.4 |
| Hexabromobiphenyl | 108855531 | 106216352 | -2.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------|--------|--------------------------|--------|--------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.240 | 0.000 | 15867501 | 232.8 | 1 | 6.345 | 0.000 | 14738489 | 244.5 | |
| Aroclor-1016 | 2 | 6.642 | 0.001 | 53691414 | 241.7 | 2 | 6.972 | -0.001 | 34075307 | 249.0 | |
| Aroclor-1016 | 3 | 6.789 | 0.000 | 21404787 | 244.3 | 3 | 7.355 | -0.001 | 8958109 | 253.7 | |
| Aroclor-1016 | 4 | 6.900 | 0.000 | 15388398 | 223.0 | 4 | 7.462 | 0.000 | 9666815 | 246.3 | |
| Total CollAve (4 peaks): | | | | 235.4 | | Total Col2Ave (4 peaks): | | | | 248.4 | RPD = 5 |
| Corrected Ave (3 peaks): | | | | 232.5 | | Corrected Ave (3 peaks): | | | | 246.6 | RPD = 6 |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 10.445 | -0.001 | 33394688 | 252.7 | 1 | 10.420 | 0.000 | 15730934 | 258.2 | |
| Aroclor-1260 | 2 | 10.819 | -0.001 | 82139903 | 250.5 | 2 | 10.871 | 0.000 | 19879374 | 262.8 | |
| Aroclor-1260 | 3 | 11.219 | -0.001 | 46117873 | 253.0 | 3 | 11.144 | 0.000 | 40751186 | 265.3 | |
| Aroclor-1260 | 4 | 11.335 | -0.002 | 19362068 | 247.4 | 4 | 11.664 | -0.001 | 11607060 | 258.8 | |
| Aroclor-1260 | 5 | 11.409 | -0.001 | 23464038 | 251.1 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 250.9 | | Total Col2Ave (4 peaks): | | | | 261.3 | RPD = 4 |
| Corrected Ave (4 peaks): | | | | 250.4 | | Corrected Ave (3 peaks): | | | | 260.0 | RPD = 4 |

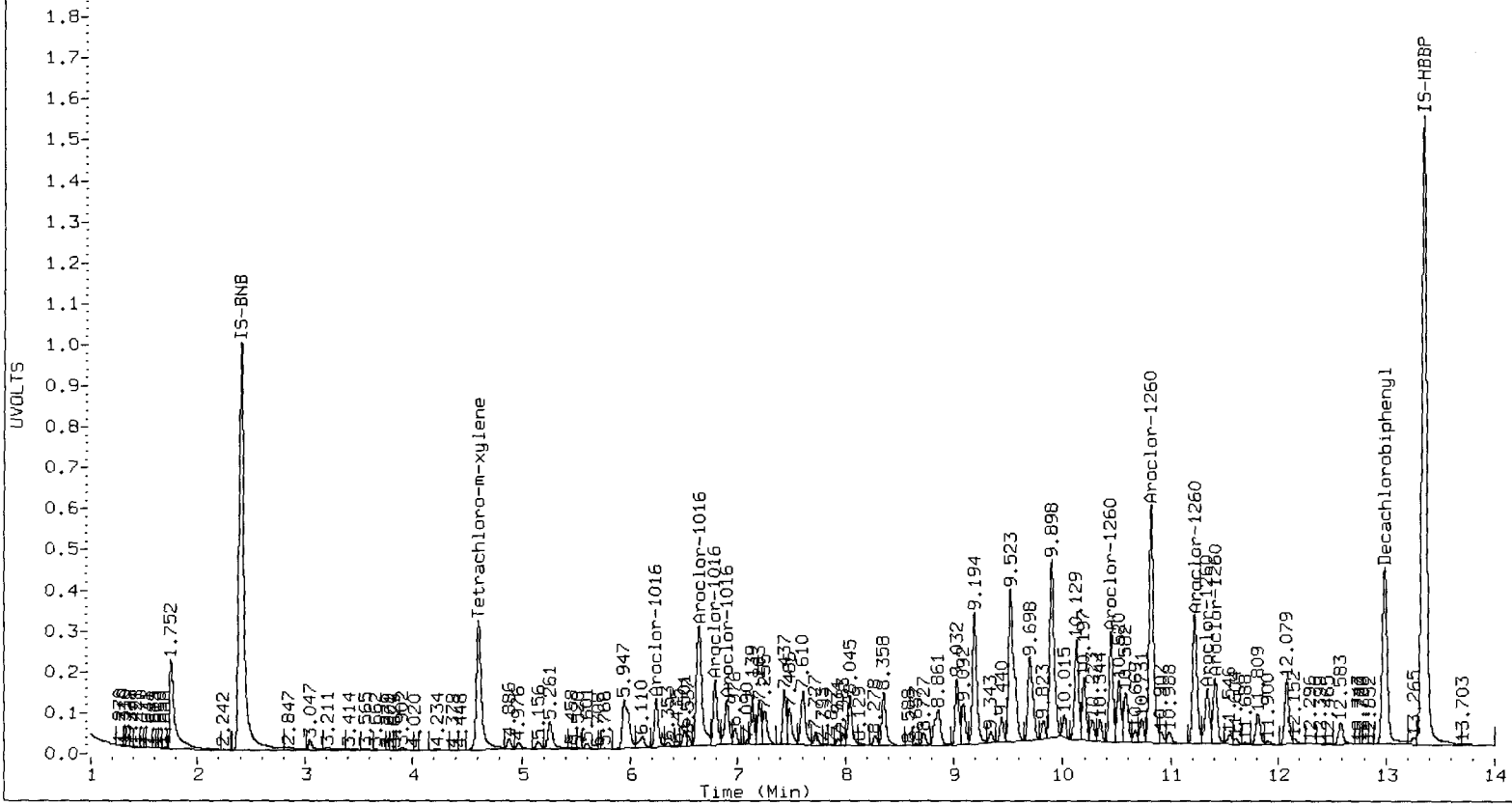
Total PCB Area Col1 (4.708 - 12.891) = 952009462

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 504148953

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A038.d
Data file 2: 20120523.b/0523-2.b/0523A038.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU62MBW1
Client ID:
Injection Date: 23-MAY-2012 22:11
Ical Date: 23-MAY-2012
Matrix: WATER
Dilution Factor: 1.000

Y2 5/24/12

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-----------------|----------|----------------|--------|--------|-----|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.608 | 0.000 75189491 | 4.610 | 0.001 48663739 | 31.2 | 28.3 | 9.8 | Tetrachloro-m-xylene |
| 12.991 | 0.000 130896269 | 13.364 | 0.000 52576056 | 30.5 | 33.5 | 9.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 77.9 | 70.6 |
| Decachlorobiphenyl | 76.2 | 83.7 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 150139970 | -2.7 |
| Hexabromobiphenyl | 248602423 | 280007398 | 12.6 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 122436878 | 10.7 |
| Hexabromobiphenyl | 108855531 | 121592797 | 11.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|---------|--------------------------|-------|--------|--------|---------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.241 | 0.000 | 236274 | 3.8 | 1 | 6.344 | -0.001 | 101799 | 1.6 | |
| Aroclor-1016 | 2 | 6.578 | -0.063 | 998744 | 4.9 | 2 | 6.969 | -0.004 | 170900 | 1.2 | |
| Aroclor-1016 | 3 | 6.786 | -0.003 | 140768 | 1.7 | 3 | 7.359 | 0.003 | 28225 | 0.8 | |
| Aroclor-1016 | 4 | 6.898 | -0.002 | 344541 | 5.4 | 4 | 7.465 | 0.003 | 26475 | 0.6 | |
| Total CollAve (4 peaks): | | | | 4.0 | Total Col2Ave (4 peaks): | | | | 1.0 | RPD = 117* | |
| Corrected Ave (3 peaks): | | | | 3.5 | Corrected Ave (3 peaks): | | | | 0.9 | RPD = 121* | |
| Aroclor-1221 | 1 | 4.887 | 0.003 | 6712270 | 596.4 | 1 | 5.314 | 0.024 | 811151 | 42.0 | |
| Aroclor-1221 | 2 | 5.143 | -0.010 | 1603058 | 88.5 | 2 | 5.502 | -0.034 | 15287 | 1.3 | |
| Aroclor-1221 | 3 | 5.256 | -0.002 | 317710 | 5.4 | 3 | 5.659 | 0.010 | 131127 | 3.7 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 230.1 | Total Col2Ave (3 peaks): | | | | 15.7 | RPD = 174* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1232 | 1 | 6.241 | 0.003 | 236274 | 9.0 | 1 | 6.344 | -0.001 | 101799 | 3.5 | |
| Aroclor-1232 | 2 | 6.578 | -0.061 | 998744 | 11.5 | 2 | 6.969 | -0.002 | 170900 | 2.8 | |
| Aroclor-1232 | 3 | 6.786 | -0.001 | 140768 | 4.0 | 3 | 7.180 | 0.001 | 31349 | 1.5 | |
| Aroclor-1232 | 4 | 7.976 | -0.005 | 14143 | 0.4 | 4 | 8.322 | -0.003 | 19633 | 0.9 | |
| Total CollAve (4 peaks): | | | | 6.2 | Total Col2Ave (4 peaks): | | | | 2.1 | RPD = 98* | |
| Corrected Ave (3 peaks): | | | | 4.5 | Corrected Ave (3 peaks): | | | | 1.7 | RPD = 89* | |
| Aroclor-1242 | 1 | 6.241 | 0.004 | 236274 | 5.0 | 1 | 6.344 | 0.001 | 101799 | 2.0 | |
| Aroclor-1242 | 2 | 6.578 | -0.059 | 998744 | 6.3 | 2 | 6.969 | -0.002 | 170900 | 1.5 | |
| Aroclor-1242 | 3 | 6.786 | 0.000 | 140768 | 2.2 | 3 | 7.180 | 0.001 | 31349 | 0.7 | |
| Aroclor-1242 | 4 | 7.976 | -0.004 | 14143 | 0.2 | 4 | 8.322 | -0.001 | 19633 | 0.5 | |
| Total CollAve (4 peaks): | | | | 3.5 | Total Col2Ave (4 peaks): | | | | 1.2 | RPD = 98* | |
| Corrected Ave (3 peaks): | | | | 2.5 | Corrected Ave (3 peaks): | | | | 0.9 | RPD = 95* | |
| Aroclor-1248 | 1 | 6.578 | -0.060 | 998744 | 9.5 | 1 | 6.969 | -0.001 | 170900 | 2.3 | |
| Aroclor-1248 | 2 | 7.439 | 0.002 | 141212 | 1.8 | 2 | 7.878 | 0.003 | 43650 | 0.7 | |
| Aroclor-1248 | 3 | 7.976 | -0.007 | 14143 | 0.1 | 3 | 8.322 | -0.004 | 19633 | 0.3 | |
| Aroclor-1248 | 4 | 8.255 | -0.018 | 3467153 | 33.7 | 4 | 8.691 | -0.057 | 1653977 | 20.7 | |
| Total CollAve (4 peaks): | | | | 11.3 | Total Col2Ave (4 peaks): | | | | 6.0 | RPD = 61* | |
| Corrected Ave (3 peaks): | | | | 3.8 | Corrected Ave (3 peaks): | | | | 1.1 | RPD = 109* | |
| Aroclor-1254 | 1 | 8.255 | -0.101 | 3467153 | 25.2 | 1 | 8.468 | 0.003 | 17018 | 0.3 | |
| Aroclor-1254 | 2 | 8.791 | 0.064 | 293419 | 3.3 | 2 | 8.691 | 0.052 | 1653977 | 24.2 | |
| Aroclor-1254 | 3 | 8.861 | -0.003 | 140119 | 0.8 | 3 | 9.178 | 0.018 | 32876 | 0.6 | |
| Aroclor-1254 | 4 | 9.192 | -0.021 | 475411 | 2.6 | 4 | 9.308 | -0.002 | 25634 | 0.2 | |
| Aroclor-1254 | 5 | 9.574 | 0.001 | 118375 | 1.0 | 5 | 10.089 | -0.004 | 17384 | 0.3 | |
| Total CollAve (5 peaks): | | | | 6.6 | Total Col2Ave (5 peaks): | | | | 5.1 | RPD = 25 | |
| Corrected Ave (4 peaks): | | | | 1.9 | Corrected Ave (4 peaks): | | | | 0.4 | RPD = 138* | |
| Aroclor-1260 | 1 | 10.445 | -0.001 | 200052 | 1.3 | 1 | 10.453 | 0.033 | 73970 | 1.1 | |
| Aroclor-1260 | 2 | 10.859 | 0.039 | 766541 | 2.0 | 2 | 10.869 | -0.002 | 58137 | 0.7 | |
| Aroclor-1260 | 3 | 11.217 | -0.004 | 146743 | 0.7 | 3 | 11.145 | 0.002 | 46554 | 0.3 | |
| Aroclor-1260 | 4 | 11.319 | -0.018 | 222293 | 2.5 | 4 | 11.616 | -0.049 | 232719 | 4.5 | |
| Aroclor-1260 | 5 | 11.443 | 0.033 | 19641 | 0.2 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 1.3 | Total Col2Ave (4 peaks): | | | | 1.6 | RPD = 20 | |
| Corrected Ave (4 peaks): | | | | 1.1 | Corrected Ave (3 peaks): | | | | 0.7 | RPD = 46* | |
| Aroclor-1262 | 1 | 10.139 | 0.011 | 444926 | 2.0 | 1 | 10.453 | -0.034 | 73970 | 0.6 | |
| Aroclor-1262 | 2 | 10.445 | 0.000 | 200052 | 1.2 | 2 | 10.869 | -0.001 | 58137 | 0.6 | |
| Aroclor-1262 | 3 | 10.859 | 0.041 | 766541 | 1.6 | 3 | 11.145 | 0.003 | 46554 | 0.2 | |
| Aroclor-1262 | 4 | 11.319 | -0.015 | 222293 | 1.3 | 4 | 11.616 | -0.048 | 232719 | 2.6 | |
| Aroclor-1262 | 5 | 11.443 | 0.036 | 19641 | 0.1 | 5 | 12.426 | -0.037 | 30813 | 0.4 | |
| Total CollAve (5 peaks): | | | | 1.2 | Total Col2Ave (5 peaks): | | | | 0.9 | RPD = 34 | |
| Corrected Ave (4 peaks): | | | | 1.1 | Corrected Ave (4 peaks): | | | | 0.5 | RPD = 80* | |
| Aroclor-1268 | 1 | 11.319 | -0.017 | 222293 | 0.5 | 1 | 11.616 | -0.048 | 232719 | 1.0 | |
| Aroclor-1268 | 2 | 11.443 | 0.036 | 19641 | 0.0 | 2 | --- | --- | --- | 0.0 | |

Aroclor-1268 3 11.858 0.065 87926 0.2
Aroclor-1268 4 12.572 -0.013 175952 0.1
Total Col1Ave (4 peaks): 0.2

3 --- 0.0
4 12.940 -0.009 64945 0.1
Col2Ave: <3 Quant Peaks

Total PCB Area Col1 (4.708 - 12.891) = 36070686

Col1 Total PCB = 0.0 ppm*

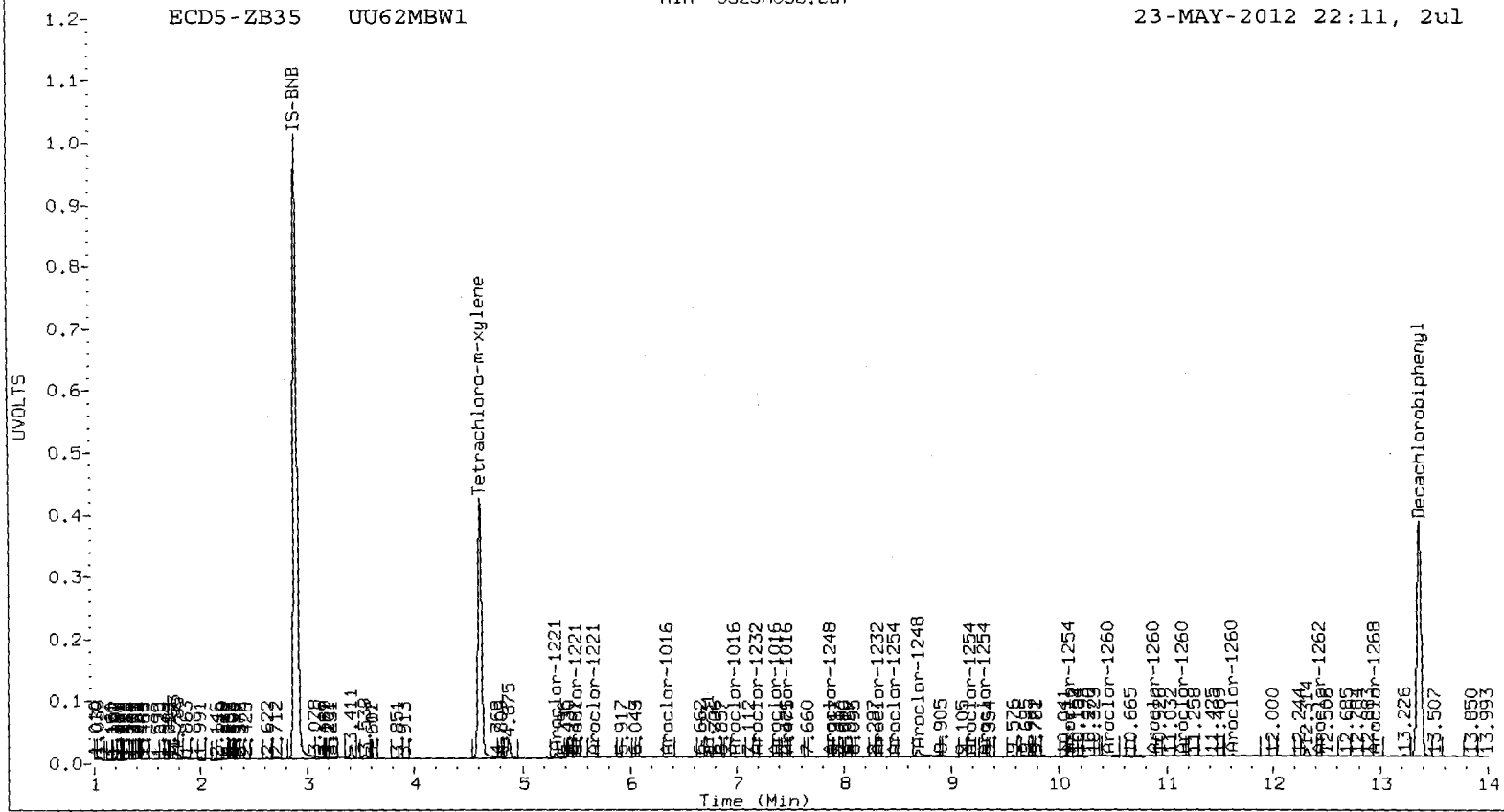
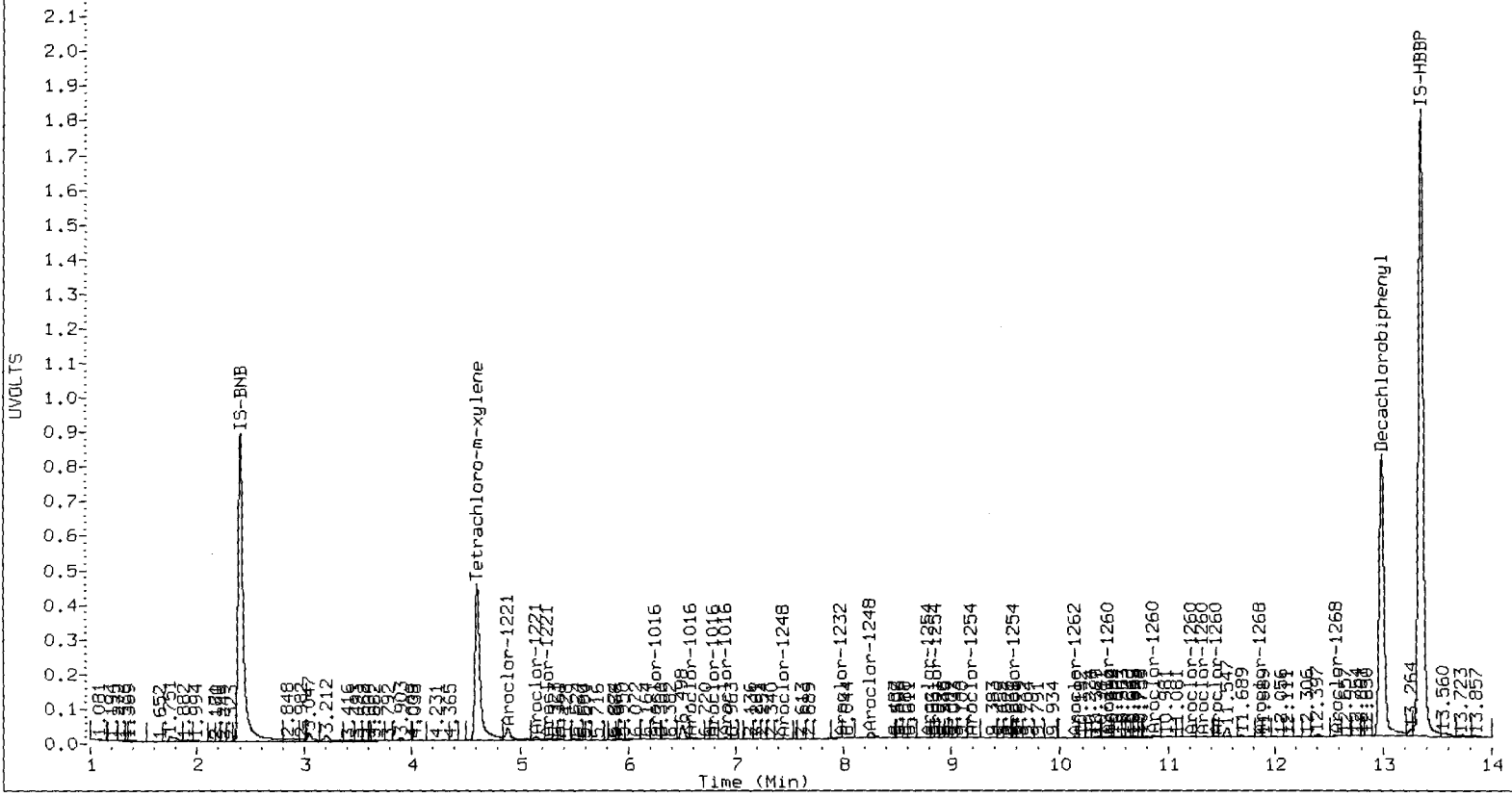
Total PCB Area Col2 (4.708 - 13.264) = 11231670

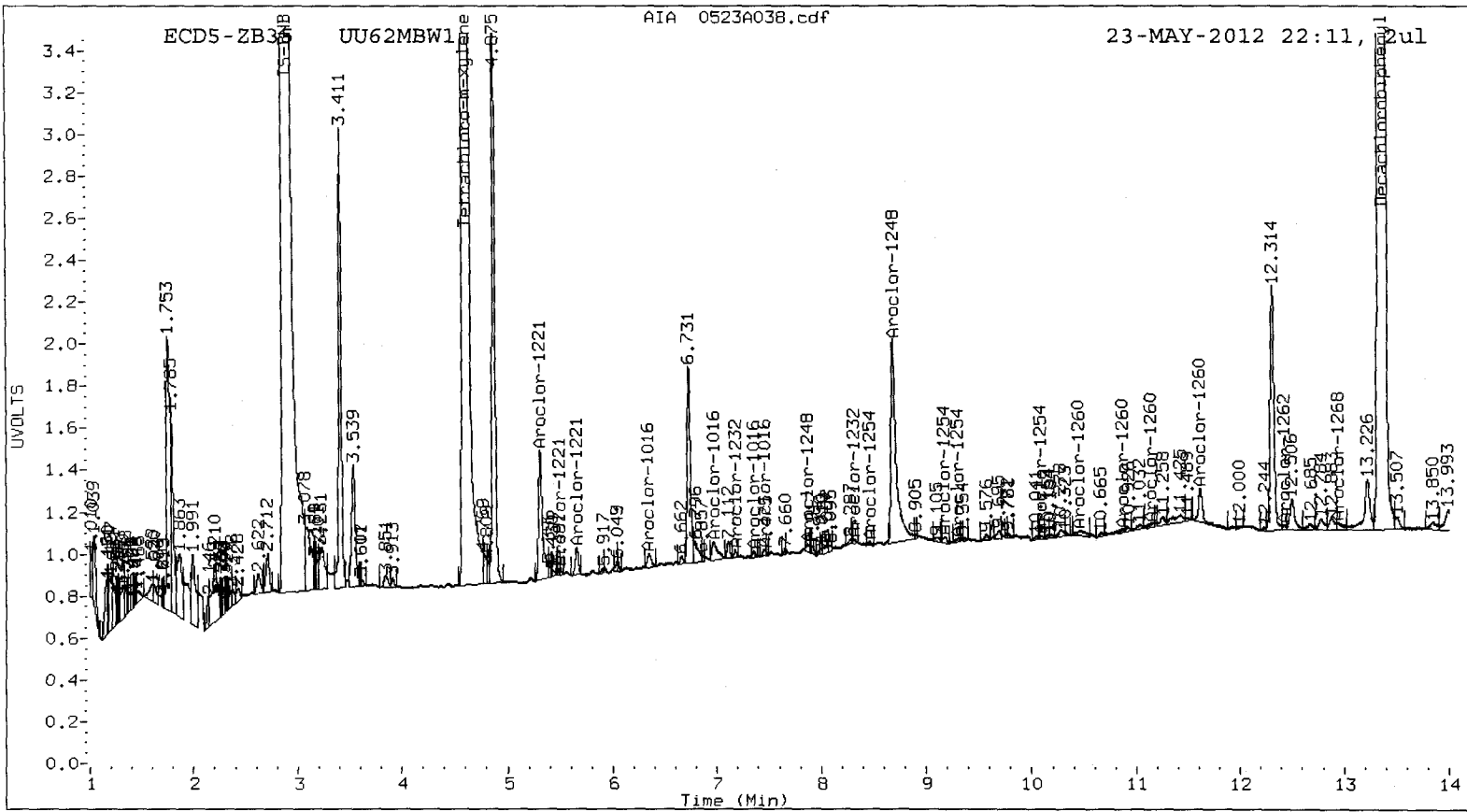
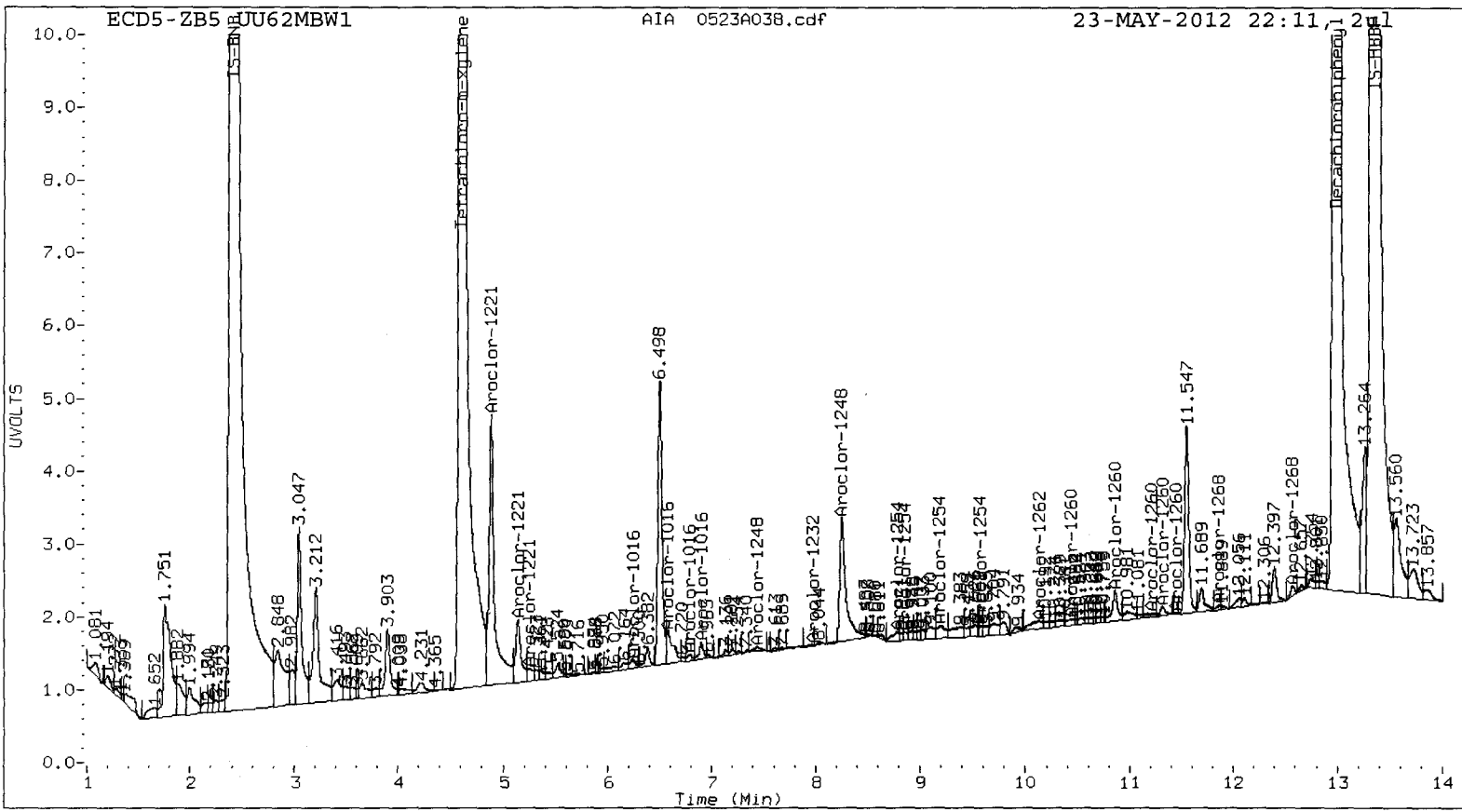
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01794





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A039.d
Data file 2: 20120523.b/0523-2.b/0523A039.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU62LCSW1
Client ID:
Injection Date: 23-MAY-2012 22:30
Ical Date: 23-MAY-2012
Matrix: WATER
Dilution Factor: 1.000

Y2 5/24/12

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|-------|-----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 4.608 | 0.000 | 82705696 | 4.609 | 0.001 | 53444168 | 35.2 | 31.4 | 11.4 | Tetrachloro-m-xylene |
| 12.991 | 0.000 | 133623204 | 13.364 | 0.000 | 53139002 | 31.3 | 34.0 | 8.5 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 88.0 | 78.6 |
| Decachlorobiphenyl | 78.2 | 85.1 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 146162804 | -5.2 |
| Hexabromobiphenyl | 248602423 | 278529213 | 12.0 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 120879756 | 9.3 |
| Hexabromobiphenyl | 108855531 | 120832932 | 11.0 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|--------|----------|--------|--------------------------|-------|--------|----------|--------|----------|
| Aroclor-1016 | 1 | 6.240 | -0.001 | 26687493 | 437.6 | 1 | 6.346 | 0.001 | 22769573 | 360.9 | |
| Aroclor-1016 | 2 | 6.641 | 0.000 | 90169414 | 453.6 | 2 | 6.973 | 0.000 | 56017778 | 391.2 | |
| Aroclor-1016 | 3 | 6.789 | -0.001 | 37702259 | 480.9 | 3 | 7.355 | -0.001 | 14877515 | 402.7 | |
| Aroclor-1016 | 4 | 6.899 | -0.001 | 28945032 | 468.7 | 4 | 7.462 | 0.000 | 16308034 | 397.0 | |
| Total CollAve (4 peaks): | | | | 460.2 | | Total Col2Ave (4 peaks): | | | | 387.9 | RPD = 17 |
| Corrected Ave (3 peaks): | | | | 453.3 | | Corrected Ave (3 peaks): | | | | 383.0 | RPD = 17 |

| | | | | | | | | | | | |
|--------------------------|----|-------|-------|----------|-------|--------------------------|-------|-------|---------|-------|-----------|
| Aroclor-1221 | 1 | 4.887 | 0.003 | 5570000 | 508.4 | 1 | 5.296 | 0.006 | 2759807 | 144.9 | |
| Aroclor-1221 | 2 | 5.155 | 0.002 | 4716199 | 267.4 | 2 | 5.540 | 0.003 | 2137892 | 190.0 | |
| Aroclor-1221 | 3 | 5.261 | 0.002 | 17589684 | 304.3 | 3 | 5.652 | 0.004 | 9651006 | 274.2 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.719 | 0.001 | 746973 | 115.8 | |
| Total CollAve (3 peaks): | | | | 360.0 | | Total Col2Ave (4 peaks): | | | | 181.2 | RPD = 66* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave (3 peaks): | | | | 150.2 | |

| | | | | | | | | | | | |
|--------------------------|---|-------|-------|----------|--------|--------------------------|-------|-------|----------|-------|----------|
| Aroclor-1232 | 1 | 6.240 | 0.002 | 26687493 | 1048.0 | 1 | 6.346 | 0.001 | 22769573 | 782.1 | |
| Aroclor-1232 | 2 | 6.641 | 0.002 | 90169414 | 1064.6 | 2 | 6.973 | 0.002 | 56017778 | 919.0 | |
| Aroclor-1232 | 3 | 6.789 | 0.001 | 37702259 | 1097.5 | 3 | 7.181 | 0.001 | 20082901 | 976.6 | |
| Aroclor-1232 | 4 | 7.982 | 0.002 | 6007870 | 182.1 | 4 | 8.325 | 0.000 | 3326559 | 147.5 | |
| Total CollAve (4 peaks): | | | | 848.0 | | Total Col2Ave (4 peaks): | | | | 706.3 | RPD = 18 |
| Corrected Ave (3 peaks): | | | | 764.9 | | Corrected Ave (3 peaks): | | | | 616.2 | RPD = 22 |

| | | | | | | | | | | | |
|--------------------------|---|-------|-------|----------|-------|--------------------------|-------|-------|----------|-------|----------|
| Aroclor-1242 | 1 | 6.240 | 0.003 | 26687493 | 580.1 | 1 | 6.346 | 0.003 | 22769573 | 461.7 | |
| Aroclor-1242 | 2 | 6.641 | 0.003 | 90169414 | 587.8 | 2 | 6.973 | 0.002 | 56017778 | 500.1 | |
| Aroclor-1242 | 3 | 6.789 | 0.002 | 37702259 | 615.9 | 3 | 7.181 | 0.002 | 20082901 | 441.3 | |
| Aroclor-1242 | 4 | 7.982 | 0.002 | 6007870 | 105.4 | 4 | 8.325 | 0.001 | 3326559 | 84.1 | |
| Total CollAve (4 peaks): | | | | 472.3 | | Total Col2Ave (4 peaks): | | | | 371.8 | RPD = 24 |
| Corrected Ave (3 peaks): | | | | 424.4 | | Corrected Ave (3 peaks): | | | | 329.0 | RPD = 25 |

| | | | | | | | | | | | |
|--------------------------|---|-------|--------|----------|-------|--------------------------|-------|--------|----------|-------|----------|
| Aroclor-1248 | 1 | 6.641 | 0.002 | 90169414 | 878.7 | 1 | 6.973 | 0.003 | 56017778 | 771.8 | |
| Aroclor-1248 | 2 | 7.437 | -0.001 | 28049942 | 361.8 | 2 | 7.873 | -0.001 | 19035398 | 327.3 | |
| Aroclor-1248 | 3 | 7.982 | -0.001 | 6007870 | 60.5 | 3 | 8.325 | -0.002 | 3326559 | 47.6 | |
| Aroclor-1248 | 4 | 8.276 | 0.002 | 7856798 | 78.4 | 4 | 8.744 | -0.003 | 1569888 | 19.9 | |
| Total CollAve (4 peaks): | | | | 344.9 | | Total Col2Ave (4 peaks): | | | | 291.6 | RPD = 17 |
| Corrected Ave (3 peaks): | | | | 166.9 | | Corrected Ave (3 peaks): | | | | 131.6 | RPD = 24 |

| | | | | | | | | | | | |
|--------------------------|---|-------|--------|-----------|--------|--------------------------|--------|--------|----------|-------|-----------|
| Aroclor-1254 | 1 | 8.358 | 0.001 | 31934567 | 238.0 | 1 | 8.465 | 0.000 | 12546316 | 236.4 | |
| Aroclor-1254 | 2 | 8.727 | 0.000 | 6371352 | 73.8 | 2 | 8.637 | -0.001 | 15385637 | 228.1 | |
| Aroclor-1254 | 3 | 8.861 | -0.002 | 30587852 | 183.4 | 3 | 9.160 | 0.000 | 3319569 | 64.4 | |
| Aroclor-1254 | 4 | 9.194 | -0.019 | 78033714 | 434.6 | 4 | 9.312 | 0.002 | 7237016 | 63.5 | |
| Aroclor-1254 | 5 | 9.523 | -0.051 | 116220805 | 1040.7 | 5 | 10.102 | 0.008 | 15100818 | 226.0 | |
| Total CollAve (5 peaks): | | | | 394.1 | | Total Col2Ave (5 peaks): | | | | 163.7 | RPD = 83* |
| Corrected Ave (4 peaks): | | | | 232.5 | | Corrected Ave (4 peaks): | | | | 145.5 | RPD = 46* |

| | | | | | | | | | | | |
|--------------------------|---|--------|--------|-----------|-------|--------------------------|--------|-------|----------|-------|---------|
| Aroclor-1260 | 1 | 10.446 | 0.000 | 62512365 | 413.7 | 1 | 10.421 | 0.001 | 28199415 | 406.9 | |
| Aroclor-1260 | 2 | 10.821 | 0.001 | 147937448 | 394.5 | 2 | 10.871 | 0.000 | 35211915 | 409.2 | |
| Aroclor-1260 | 3 | 11.220 | 0.000 | 83732492 | 401.7 | 3 | 11.144 | 0.000 | 71612258 | 409.9 | |
| Aroclor-1260 | 4 | 11.336 | -0.001 | 36132326 | 403.7 | 4 | 11.665 | 0.000 | 20684456 | 405.5 | |
| Aroclor-1260 | 5 | 11.410 | 0.000 | 44212198 | 413.8 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 405.5 | | Total Col2Ave (4 peaks): | | | | 407.9 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 403.4 | | Corrected Ave (3 peaks): | | | | 407.2 | RPD = 1 |

| | | | | | | | | | | | |
|--------------------------|---|--------|-------|-----------|-------|--------------------------|--------|-------|----------|-------|---------|
| Aroclor-1262 | 1 | 10.129 | 0.001 | 61674453 | 277.8 | 1 | 10.421 | 0.002 | 28199415 | 249.2 | |
| Aroclor-1262 | 2 | 10.446 | 0.002 | 62512365 | 368.5 | 2 | 10.871 | 0.001 | 35211915 | 360.7 | |
| Aroclor-1262 | 3 | 10.821 | 0.002 | 147937448 | 319.1 | 3 | 11.144 | 0.002 | 71612258 | 323.1 | |
| Aroclor-1262 | 4 | 11.336 | 0.002 | 36132326 | 213.3 | 4 | 11.665 | 0.001 | 20684456 | 231.9 | |
| Aroclor-1262 | 5 | 11.410 | 0.003 | 44212198 | 229.5 | 5 | 12.464 | 0.002 | 19045004 | 229.3 | |
| Total CollAve (5 peaks): | | | | 281.7 | | Total Col2Ave (5 peaks): | | | | 278.8 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 259.9 | | Corrected Ave (4 peaks): | | | | 258.4 | RPD = 1 |

| | | | | | | | | | | |
|--------------|---|--------|-------|----------|------|---|--------|--------|----------|-------|
| Aroclor-1268 | 1 | 11.336 | 0.000 | 36132326 | 76.2 | 1 | 11.665 | 0.001 | 20684456 | 89.7 |
| Aroclor-1268 | 2 | 11.410 | 0.003 | 44212198 | 92.7 | 2 | 11.725 | -0.006 | 49870433 | 229.3 |

| | | | | | | | | | |
|--------------------------|--------|--------|----------|--------------------------|---|--------|-------|----------|------|
| Aroclor-1268 3 | 11.809 | 0.017 | 21560612 | 54.2 | 3 | 12.129 | 0.002 | 1247154 | 6.8 |
| Aroclor-1268 4 | 12.583 | -0.002 | 15637333 | 13.4 | 4 | 12.950 | 0.001 | 5475909 | 10.6 |
| Total Col1Ave (4 peaks): | | | 59.1 | Total Col2Ave (4 peaks): | | 84.1 | | RPD = 35 | |
| Corrected Ave (3 peaks): | | | 47.9 | Corrected Ave (3 peaks): | | 35.7 | | RPD = 29 | |

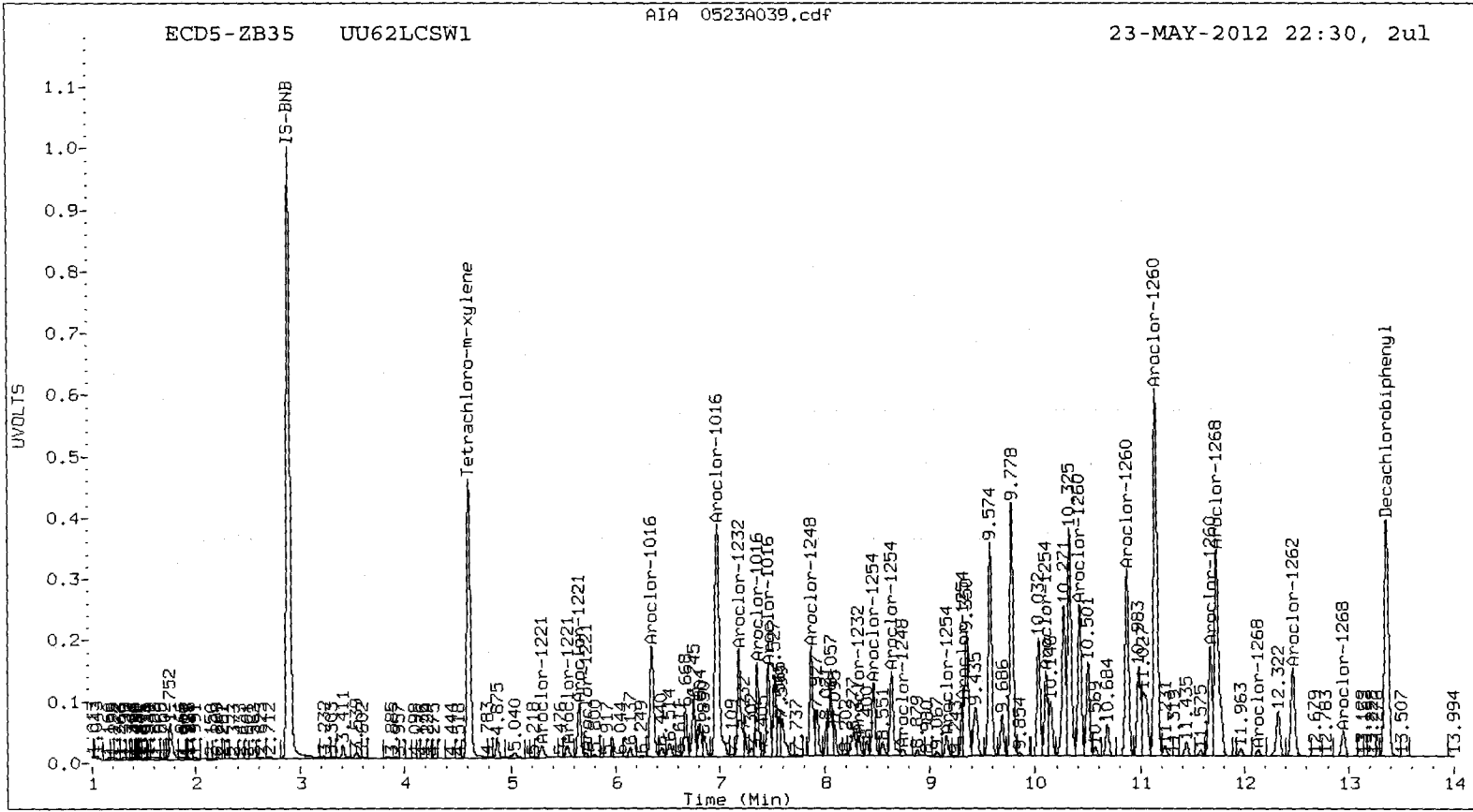
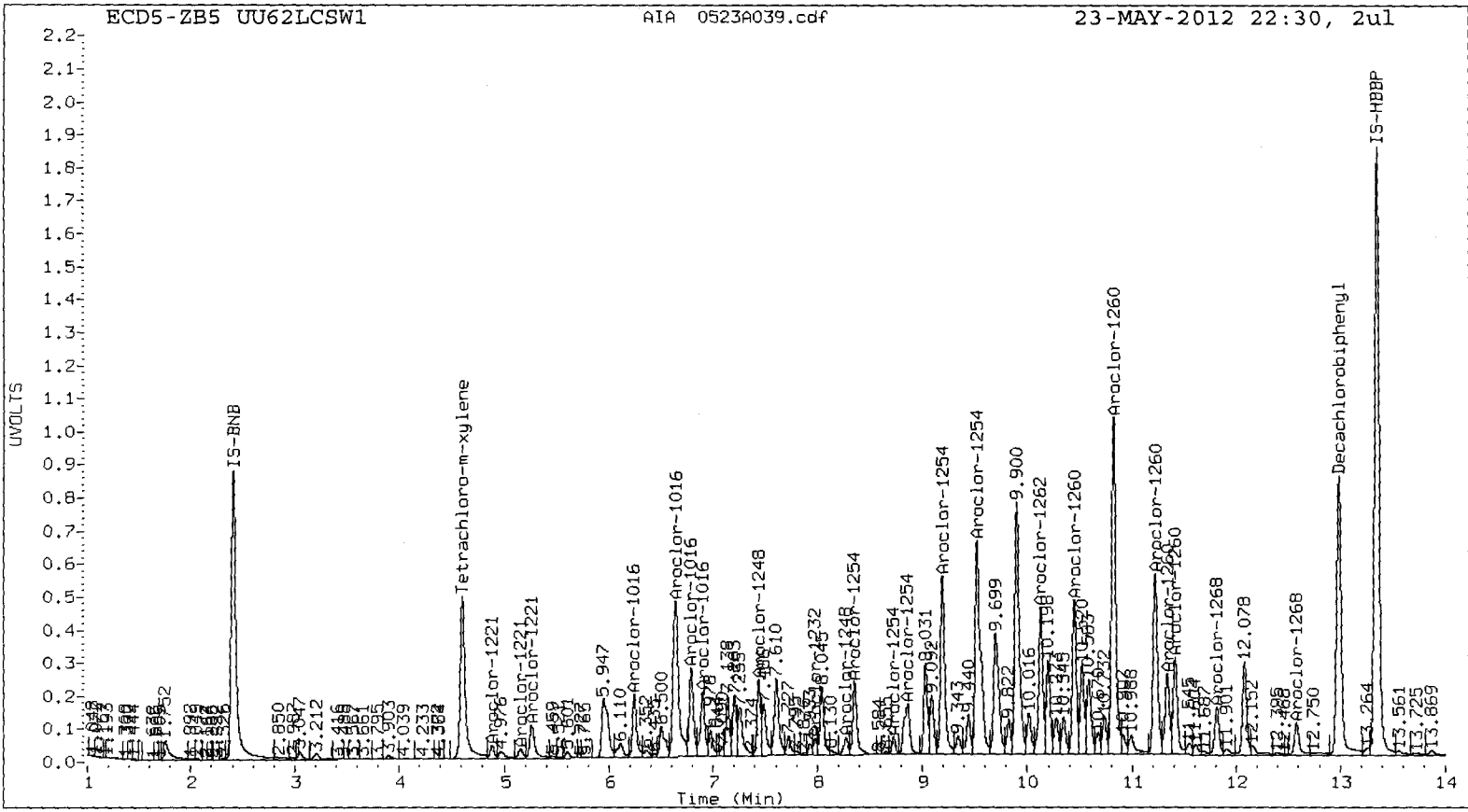
Total PCB Area Col1 (4.708 - 12.891) = 1807404629 Col1 Total PCB = 1.0 ppm*

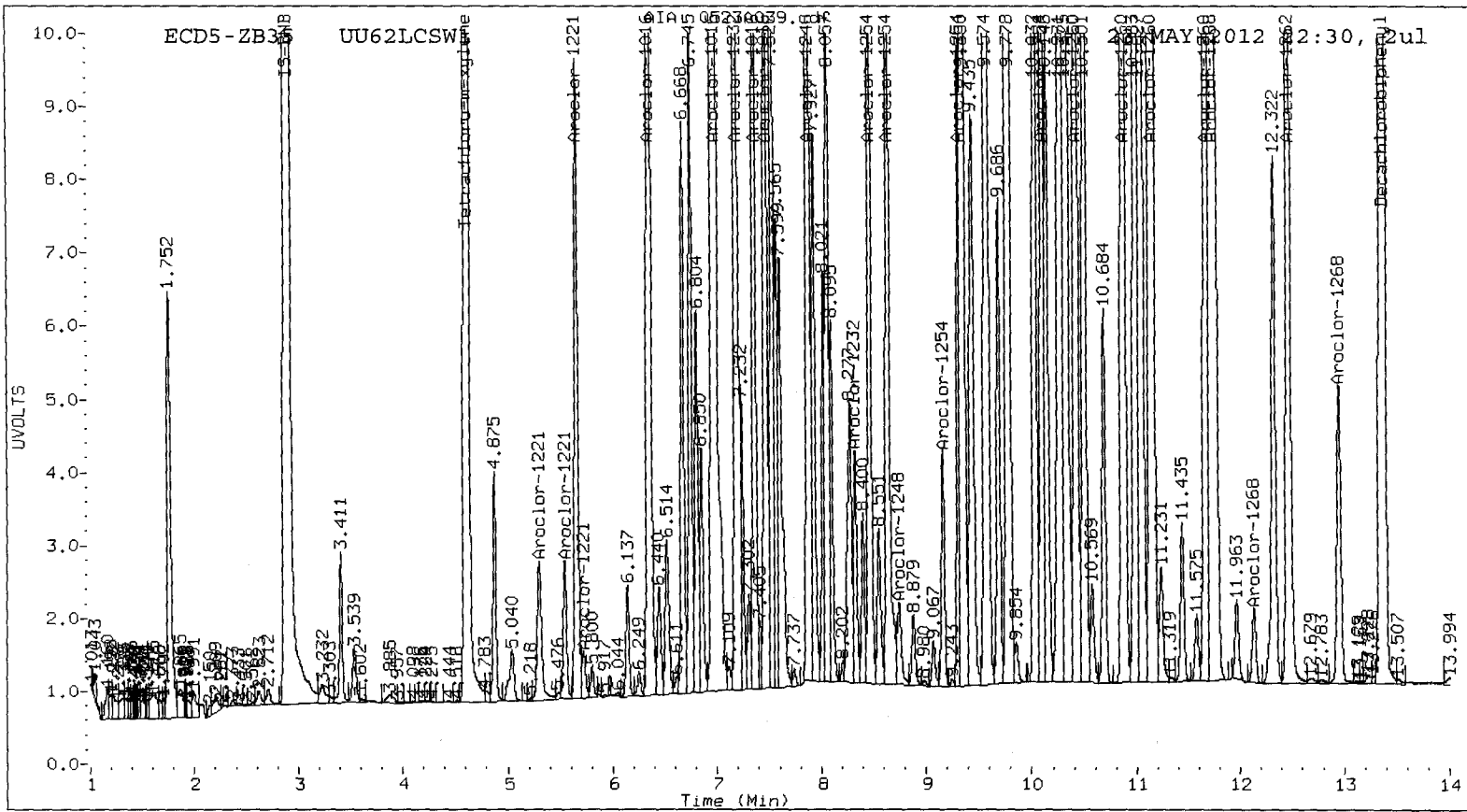
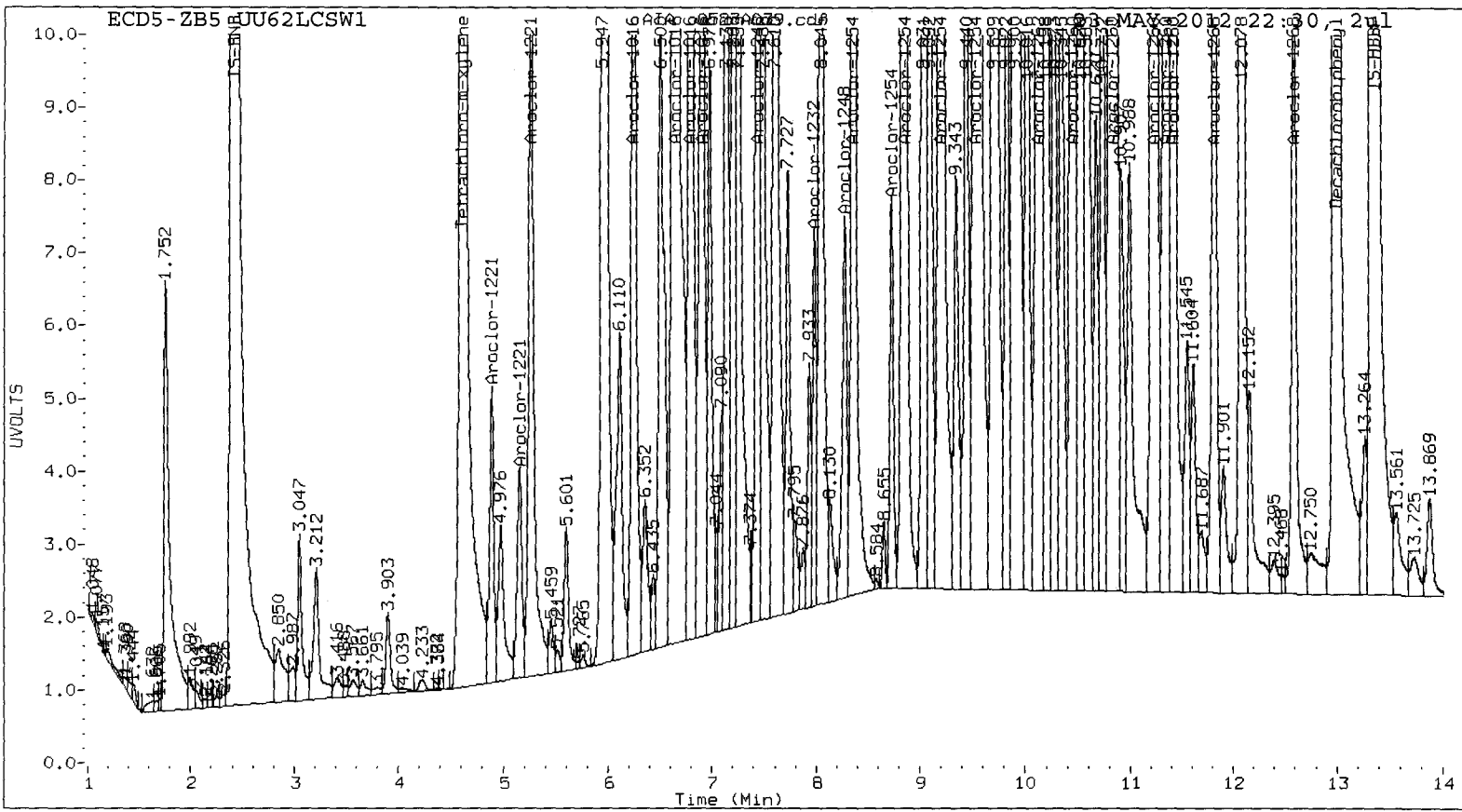
Total PCB Area Col2 (4.708 - 13.264) = 873038966 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52: 01799





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A040.d
Data file 2: 20120523.b/0523-2.b/0523A040.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU62LCSDW1
Client ID:
Injection Date: 23-MAY-2012 22:49
Ical Date: 23-MAY-2012
Matrix: WATER
Dilution Factor: 1.000

YZ 5/24/12

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-----------------|----------|----------------|--------|--------|------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 4.609 | 0.001 79418028 | 4.610 | 0.002 51633210 | 33.9 | 29.9 | 12.4 | Tetrachloro-m-xylene |
| 12.992 | 0.001 129391946 | 13.364 | 0.000 51892458 | 29.5 | 32.4 | 9.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 84.7 | 74.8 |
| Decachlorobiphenyl | 73.8 | 81.1 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 145934035 | -5.4 |
| Hexabromobiphenyl | 248602423 | 285560925 | 14.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 122645230 | 10.9 |
| Hexabromobiphenyl | 108855531 | 123839457 | 13.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|-------|----------|--------------------------|-------|-------|-------|----------|----------|--|
| Aroclor-1016 | 1 | 6.241 | 0.000 | 25525431 | 419.2 | 1 | 6.347 | 0.001 | 21817842 | 340.8 | |
| Aroclor-1016 | 2 | 6.642 | 0.001 | 87035881 | 438.5 | 2 | 6.974 | 0.000 | 54199352 | 373.0 | |
| Aroclor-1016 | 3 | 6.789 | 0.000 | 36493474 | 466.2 | 3 | 7.356 | 0.000 | 15043215 | 401.3 | |
| Aroclor-1016 | 4 | 6.900 | 0.000 | 28400431 | 460.6 | 4 | 7.463 | 0.001 | 15865864 | 380.7 | |
| Total CollAve (4 peaks): | | | | 446.1 | Total Col2Ave (4 peaks): | | | | 373.9 | RPD = 18 | |
| Corrected Ave (3 peaks): | | | | 439.5 | Corrected Ave (3 peaks): | | | | 364.8 | RPD = 19 | |

| | | | | | | | | | | | |
|--------------------------|----|-------|-------|----------|--------------------------|---|-------|-------|---------|-----------|--|
| Aroclor-1221 | 1 | 4.887 | 0.003 | 5420536 | 495.5 | 1 | 5.298 | 0.008 | 2603513 | 134.7 | |
| Aroclor-1221 | 2 | 5.156 | 0.003 | 4465208 | 253.5 | 2 | 5.541 | 0.005 | 2182658 | 191.1 | |
| Aroclor-1221 | 3 | 5.261 | 0.003 | 16364681 | 283.6 | 3 | 5.653 | 0.004 | 9085459 | 254.4 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | 5.720 | 0.003 | 707449 | 108.1 | |
| Total CollAve (3 peaks): | | | | 344.2 | Total Col2Ave (4 peaks): | | | | 172.1 | RPD = 67* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave (3 peaks): | | | | 144.7 | | |

| | | | | | | | | | | | |
|--------------------------|---|-------|-------|----------|--------------------------|---|-------|-------|----------|----------|--|
| Aroclor-1232 | 1 | 6.241 | 0.002 | 25525431 | 1003.9 | 1 | 6.347 | 0.001 | 21817842 | 738.6 | |
| Aroclor-1232 | 2 | 6.642 | 0.003 | 87035881 | 1029.2 | 2 | 6.974 | 0.002 | 54199352 | 876.4 | |
| Aroclor-1232 | 3 | 6.789 | 0.002 | 36493474 | 1064.0 | 3 | 7.182 | 0.002 | 18903255 | 906.0 | |
| Aroclor-1232 | 4 | 7.983 | 0.003 | 5836972 | 177.2 | 4 | 8.325 | 0.000 | 3319772 | 145.1 | |
| Total CollAve (4 peaks): | | | | 818.6 | Total Col2Ave (4 peaks): | | | | 666.5 | RPD = 20 | |
| Corrected Ave (3 peaks): | | | | 736.8 | Corrected Ave (3 peaks): | | | | 586.7 | RPD = 23 | |

| | | | | | | | | | | | |
|--------------------------|---|-------|-------|----------|--------------------------|---|-------|-------|----------|----------|--|
| Aroclor-1242 | 1 | 6.241 | 0.004 | 25525431 | 555.7 | 1 | 6.347 | 0.003 | 21817842 | 436.0 | |
| Aroclor-1242 | 2 | 6.642 | 0.004 | 87035881 | 568.2 | 2 | 6.974 | 0.003 | 54199352 | 476.9 | |
| Aroclor-1242 | 3 | 6.789 | 0.003 | 36493474 | 597.1 | 3 | 7.182 | 0.003 | 18903255 | 409.4 | |
| Aroclor-1242 | 4 | 7.983 | 0.003 | 5836972 | 102.5 | 4 | 8.325 | 0.002 | 3319772 | 82.7 | |
| Total CollAve (4 peaks): | | | | 455.9 | Total Col2Ave (4 peaks): | | | | 351.3 | RPD = 26 | |
| Corrected Ave (3 peaks): | | | | 408.8 | Corrected Ave (3 peaks): | | | | 309.4 | RPD = 28 | |

| | | | | | | | | | | | |
|--------------------------|---|-------|-------|----------|--------------------------|---|-------|--------|----------|----------|--|
| Aroclor-1248 | 1 | 6.642 | 0.003 | 87035881 | 849.5 | 1 | 6.974 | 0.004 | 54199352 | 736.0 | |
| Aroclor-1248 | 2 | 7.438 | 0.000 | 27424266 | 354.3 | 2 | 7.874 | -0.001 | 18684048 | 316.7 | |
| Aroclor-1248 | 3 | 7.983 | 0.000 | 5836972 | 58.9 | 3 | 8.325 | -0.001 | 3319772 | 46.8 | |
| Aroclor-1248 | 4 | 8.276 | 0.002 | 8395198 | 83.9 | 4 | 8.745 | -0.003 | 1724972 | 21.5 | |
| Total CollAve (4 peaks): | | | | 336.6 | Total Col2Ave (4 peaks): | | | | 280.2 | RPD = 18 | |
| Corrected Ave (3 peaks): | | | | 165.7 | Corrected Ave (3 peaks): | | | | 128.3 | RPD = 25 | |

| | | | | | | | | | | | |
|--------------------------|---|-------|--------|-----------|--------------------------|---|--------|-------|----------|-----------|--|
| Aroclor-1254 | 1 | 8.359 | 0.002 | 31490265 | 235.1 | 1 | 8.466 | 0.000 | 12408292 | 230.4 | |
| Aroclor-1254 | 2 | 8.728 | 0.001 | 6382799 | 74.0 | 2 | 8.638 | 0.000 | 15702597 | 229.4 | |
| Aroclor-1254 | 3 | 8.862 | -0.002 | 30288799 | 181.9 | 3 | 9.160 | 0.000 | 3277088 | 62.7 | |
| Aroclor-1254 | 4 | 9.195 | -0.018 | 77597613 | 432.9 | 4 | 9.313 | 0.003 | 7044154 | 60.9 | |
| Aroclor-1254 | 5 | 9.524 | -0.050 | 115812079 | 1038.7 | 5 | 10.103 | 0.010 | 15421490 | 227.5 | |
| Total CollAve (5 peaks): | | | | 392.5 | Total Col2Ave (5 peaks): | | | | 162.2 | RPD = 83* | |
| Corrected Ave (4 peaks): | | | | 231.0 | Corrected Ave (4 peaks): | | | | 145.1 | RPD = 46* | |

| | | | | | | | | | | | |
|--------------------------|---|--------|--------|-----------|--------------------------|----|--------|-------|----------|---------|--|
| Aroclor-1260 | 1 | 10.447 | 0.001 | 61723936 | 398.4 | 1 | 10.421 | 0.001 | 28567567 | 402.2 | |
| Aroclor-1260 | 2 | 10.820 | 0.000 | 147435214 | 383.5 | 2 | 10.871 | 0.000 | 35741550 | 405.3 | |
| Aroclor-1260 | 3 | 11.220 | 0.000 | 81836731 | 382.9 | 3 | 11.144 | 0.000 | 72558579 | 405.2 | |
| Aroclor-1260 | 4 | 11.336 | -0.001 | 34885221 | 380.2 | 4 | 11.665 | 0.000 | 21241924 | 406.3 | |
| Aroclor-1260 | 5 | 11.410 | 0.000 | 42454472 | 387.5 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 386.5 | Total Col2Ave (4 peaks): | | | | 404.7 | RPD = 5 | |
| Corrected Ave (4 peaks): | | | | 383.5 | Corrected Ave (3 peaks): | | | | 404.2 | RPD = 5 | |

| | | | | | | | | | | | |
|--------------------------|---|--------|-------|-----------|--------------------------|---|--------|-------|----------|---------|--|
| Aroclor-1262 | 1 | 10.130 | 0.002 | 61146213 | 268.6 | 1 | 10.421 | 0.002 | 28567567 | 246.3 | |
| Aroclor-1262 | 2 | 10.447 | 0.002 | 61723936 | 354.9 | 2 | 10.871 | 0.001 | 35741550 | 357.2 | |
| Aroclor-1262 | 3 | 10.820 | 0.002 | 147435214 | 310.2 | 3 | 11.144 | 0.002 | 72558579 | 319.4 | |
| Aroclor-1262 | 4 | 11.336 | 0.002 | 34885221 | 200.8 | 4 | 11.665 | 0.001 | 21241924 | 232.4 | |
| Aroclor-1262 | 5 | 11.410 | 0.002 | 42454472 | 215.0 | 5 | 12.464 | 0.001 | 18947457 | 222.6 | |
| Total CollAve (5 peaks): | | | | 269.9 | Total Col2Ave (5 peaks): | | | | 275.6 | RPD = 2 | |
| Corrected Ave (4 peaks): | | | | 248.7 | Corrected Ave (4 peaks): | | | | 255.2 | RPD = 3 | |

| | | | | | | | | | | |
|--------------|---|--------|-------|----------|------|---|--------|--------|----------|-------|
| Aroclor-1268 | 1 | 11.336 | 0.000 | 34885221 | 71.7 | 1 | 11.665 | 0.001 | 21241924 | 89.8 |
| Aroclor-1268 | 2 | 11.410 | 0.003 | 42454472 | 86.8 | 2 | 11.726 | -0.005 | 50817215 | 228.0 |

| | | | | | | | | | |
|--------------------------|--------|--------|----------|--------------------------|---|--------|-------|---------|-----------|
| Aroclor-1268 3 | 11.810 | 0.018 | 20044537 | 49.1 | 3 | 12.130 | 0.002 | 1292200 | 6.9 |
| Aroclor-1268 4 | 12.583 | -0.002 | 14570164 | 12.1 | 4 | 12.950 | 0.000 | 5640283 | 10.7 |
| Total Col1Ave (4 peaks): | | | 55.0 | Total Col2Ave (4 peaks): | | | | 83.9 | RPD = 42* |
| Corrected Ave (3 peaks): | | | 44.3 | Corrected Ave (3 peaks): | | | | 35.8 | RPD = 21 |

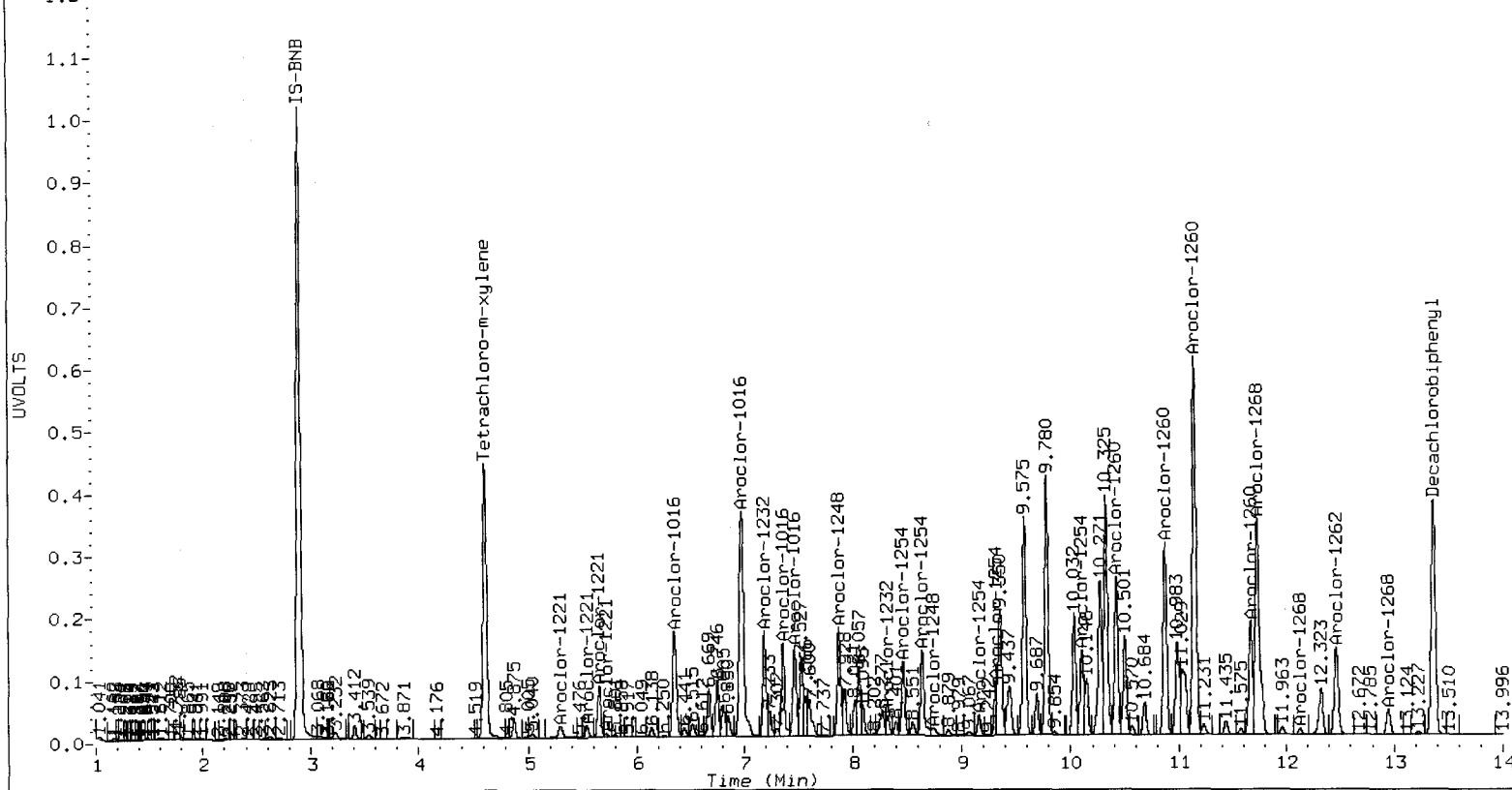
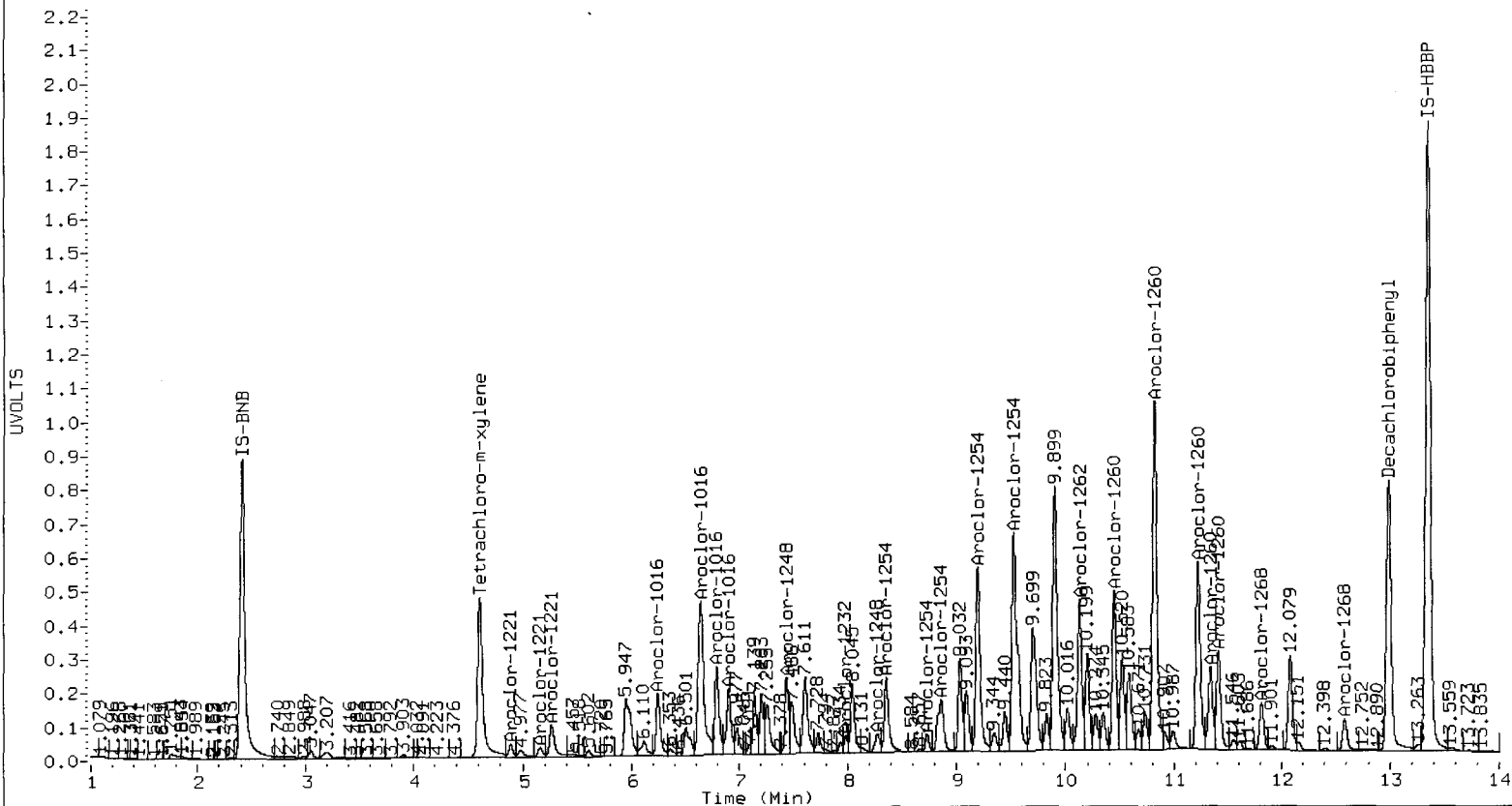
Total PCB Area Col1 (4.708 - 12.891) = 1756369483 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 872663681 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01804



Analytical Resources Inc.
Dual Column PCBs by SW8082

YZ 5/24/12

Data file 1: 20120523.b/0523-1.b/0523A042.d
Data file 2: 20120523.b/0523-2.b/0523A042.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU62J
Client ID:
Injection Date: 23-MAY-2012 23:27
Ical Date: 23-MAY-2012
Matrix: WATER
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------------|-------------------------|------------|-------------|------|----------------------|
| 4.609 | 0.001 59752136 | 4.611 0.002 38219584 | 25.5 | 22.5 | 12.5 | Tetrachloro-m-xylene |
| 12.990 | -0.001 37239091 | 13.364 0.000 13847100 | 8.8 | 9.0 | 2.0 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 63.7 | 56.3 |
| Decachlorobiphenyl | 22.1 | 22.5 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 154228462 | 145833693 | -5.4 |
| Hexabromobiphenyl | 248602423 | 274879722 | 10.6 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 110618229 | 120702373 | 9.1 |
| Hexabromobiphenyl | 108855531 | 119021355 | 9.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
-< Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|---------|--------------------------|-------|--------|--------|---------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.232 | -0.009 | 204397 | 3.4 | 1 | 6.295 | -0.050 | 14054 | 0.2 | |
| Aroclor-1016 | 2 | 6.577 | -0.065 | 905442 | 4.6 | 2 | 7.028 | 0.054 | 697214 | 4.9 | |
| Aroclor-1016 | 3 | 6.779 | -0.011 | 183861 | 2.4 | 3 | 7.363 | 0.007 | 40906 | 1.1 | |
| Aroclor-1016 | 4 | 6.898 | -0.002 | 325723 | 5.3 | 4 | 7.466 | 0.004 | 42301 | 1.0 | |
| Total CollAve (4 peaks): | | | | 3.9 | Total Col2Ave (4 peaks): | | | | 1.8 | RPD = 73* | |
| Corrected Ave (3 peaks): | | | | 3.4 | Corrected Ave (3 peaks): | | | | 0.8 | RPD = 125* | |
| Aroclor-1221 | 1 | 4.888 | 0.004 | 5090937 | 465.7 | 1 | 5.314 | 0.025 | 858037 | 45.1 | |
| Aroclor-1221 | 2 | 5.144 | -0.009 | 1177532 | 66.9 | 2 | 5.566 | 0.030 | 69695 | 6.2 | |
| Aroclor-1221 | 3 | 5.250 | -0.008 | 212588 | 3.7 | 3 | 5.664 | 0.015 | 115484 | 3.3 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 178.8 | Total Col2Ave (3 peaks): | | | | 18.2 | RPD = 163* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1232 | 1 | 6.232 | -0.007 | 204397 | 8.0 | 1 | 6.295 | -0.050 | 14054 | 0.5 | |
| Aroclor-1232 | 2 | 6.577 | -0.062 | 905442 | 10.7 | 2 | 7.028 | 0.057 | 697214 | 11.5 | |
| Aroclor-1232 | 3 | 6.779 | -0.008 | 183861 | 5.4 | 3 | 7.182 | 0.003 | 70993 | 3.5 | |
| Aroclor-1232 | 4 | 7.998 | 0.018 | 38190 | 1.2 | 4 | 8.324 | -0.001 | 125418 | 5.6 | |
| Total CollAve (4 peaks): | | | | 6.3 | Total Col2Ave (4 peaks): | | | | 5.2 | RPD = 19 | |
| Corrected Ave (3 peaks): | | | | 4.9 | Corrected Ave (3 peaks): | | | | 3.2 | RPD = 42* | |
| Aroclor-1242 | 1 | 6.232 | -0.006 | 204397 | 4.5 | 1 | 6.295 | -0.048 | 14054 | 0.3 | |
| Aroclor-1242 | 2 | 6.577 | -0.061 | 905442 | 5.9 | 2 | 7.028 | 0.057 | 697214 | 6.2 | |
| Aroclor-1242 | 3 | 6.779 | -0.007 | 183861 | 3.0 | 3 | 7.182 | 0.004 | 70993 | 1.6 | |
| Aroclor-1242 | 4 | 7.998 | 0.018 | 38190 | 0.7 | 4 | 8.324 | 0.000 | 125418 | 3.2 | |
| Total CollAve (4 peaks): | | | | 3.5 | Total Col2Ave (4 peaks): | | | | 2.8 | RPD = 22 | |
| Corrected Ave (3 peaks): | | | | 2.7 | Corrected Ave (3 peaks): | | | | 1.7 | RPD = 47* | |
| Aroclor-1248 | 1 | 6.577 | -0.062 | 905442 | 8.8 | 1 | 7.028 | 0.058 | 697214 | 9.6 | |
| Aroclor-1248 | 2 | 7.436 | -0.001 | 105607 | 1.4 | 2 | 7.877 | 0.003 | 74919 | 1.3 | |
| Aroclor-1248 | 3 | 7.998 | 0.015 | 38190 | 0.4 | 3 | 8.324 | -0.003 | 125418 | 1.8 | |
| Aroclor-1248 | 4 | 8.255 | -0.019 | 9214656 | 92.2 | 4 | 8.692 | -0.056 | 5080296 | 64.5 | |
| Total CollAve (4 peaks): | | | | 25.7 | Total Col2Ave (4 peaks): | | | | 19.3 | RPD = 28 | |
| Corrected Ave (3 peaks): | | | | 3.5 | Corrected Ave (3 peaks): | | | | 4.2 | RPD = 18 | |
| Aroclor-1254 | 1 | 8.255 | -0.102 | 9214656 | 68.8 | 1 | 8.469 | 0.003 | 65294 | 1.2 | |
| Aroclor-1254 | 2 | 8.730 | 0.003 | 168023 | 1.9 | 2 | 8.692 | 0.054 | 5080296 | 75.4 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 467743 | 2.8 | 3 | 9.159 | 0.000 | 110726 | 2.2 | |
| Aroclor-1254 | 4 | 9.207 | -0.006 | 593646 | 3.3 | 4 | 9.309 | -0.001 | 146976 | 1.3 | |
| Aroclor-1254 | 5 | 9.573 | -0.001 | 359992 | 3.2 | 5 | 10.094 | 0.000 | 39449 | 0.6 | |
| Total CollAve (5 peaks): | | | | 16.0 | Total Col2Ave (5 peaks): | | | | 16.1 | RPD = 1 | |
| Corrected Ave (4 peaks): | | | | 2.8 | Corrected Ave (4 peaks): | | | | 1.3 | RPD = 73* | |
| Aroclor-1260 | 1 | 10.442 | -0.004 | 171902 | 1.2 | 1 | 10.478 | 0.057 | 12564 | 0.2 | |
| Aroclor-1260 | 2 | 10.859 | 0.039 | 553967 | 1.5 | 2 | 10.864 | -0.007 | 77808 | 0.9 | |
| Aroclor-1260 | 3 | 11.227 | 0.006 | 58163 | 0.3 | 3 | 11.150 | 0.006 | 35900 | 0.2 | |
| Aroclor-1260 | 4 | 11.320 | -0.017 | 130761 | 1.5 | 4 | 11.617 | -0.048 | 232668 | 4.6 | |
| Aroclor-1260 | 5 | 11.408 | -0.002 | 20408 | 0.2 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 0.9 | Total Col2Ave (4 peaks): | | | | 1.5 | RPD = 47* | |
| Corrected Ave (4 peaks): | | | | 0.8 | Corrected Ave (3 peaks): | | | | 0.4 | RPD = 56* | |
| Aroclor-1262 | 1 | 10.129 | 0.001 | 291218 | 1.3 | 1 | 10.478 | 0.058 | 12564 | 0.1 | |
| Aroclor-1262 | 2 | 10.442 | -0.003 | 171902 | 1.0 | 2 | 10.864 | -0.006 | 77808 | 0.8 | |
| Aroclor-1262 | 3 | 10.859 | 0.041 | 553967 | 1.2 | 3 | 11.150 | 0.008 | 35900 | 0.2 | |
| Aroclor-1262 | 4 | 11.320 | -0.014 | 130761 | 0.8 | 4 | 11.617 | -0.047 | 232668 | 2.6 | |
| Aroclor-1262 | 5 | 11.408 | 0.000 | 20408 | 0.1 | 5 | 12.506 | 0.043 | 339910 | 4.2 | |
| Total CollAve (5 peaks): | | | | 0.9 | Total Col2Ave (5 peaks): | | | | 1.6 | RPD = 56* | |
| Corrected Ave (4 peaks): | | | | 0.8 | Corrected Ave (4 peaks): | | | | 0.9 | RPD = 18 | |
| Aroclor-1268 | 1 | 11.320 | -0.016 | 130761 | 0.3 | 1 | 11.617 | -0.047 | 232668 | 1.0 | |
| Aroclor-1268 | 2 | 11.408 | 0.001 | 20408 | 0.0 | 2 | 11.724 | -0.006 | 29674 | 0.1 | |

| | | | | | | | | | |
|--------------------------|--------|--------|--------|--------------------------|---|--------|--------|-----------|-----|
| Aroclor-1268 3 | 11.799 | 0.007 | 32558 | 0.1 | 3 | 12.139 | 0.011 | 14090 | 0.1 |
| Aroclor-1268 4 | 12.567 | -0.018 | 145240 | 0.1 | 4 | 12.885 | -0.065 | 81746 | 0.2 |
| Total Col1Ave (4 peaks): | | | 0.1 | Total Col2Ave (4 peaks): | | | 0.4 | RPD = 90* | |
| Corrected Ave (3 peaks): | | | 0.1 | Corrected Ave (3 peaks): | | | 0.1 | RPD = 40 | |

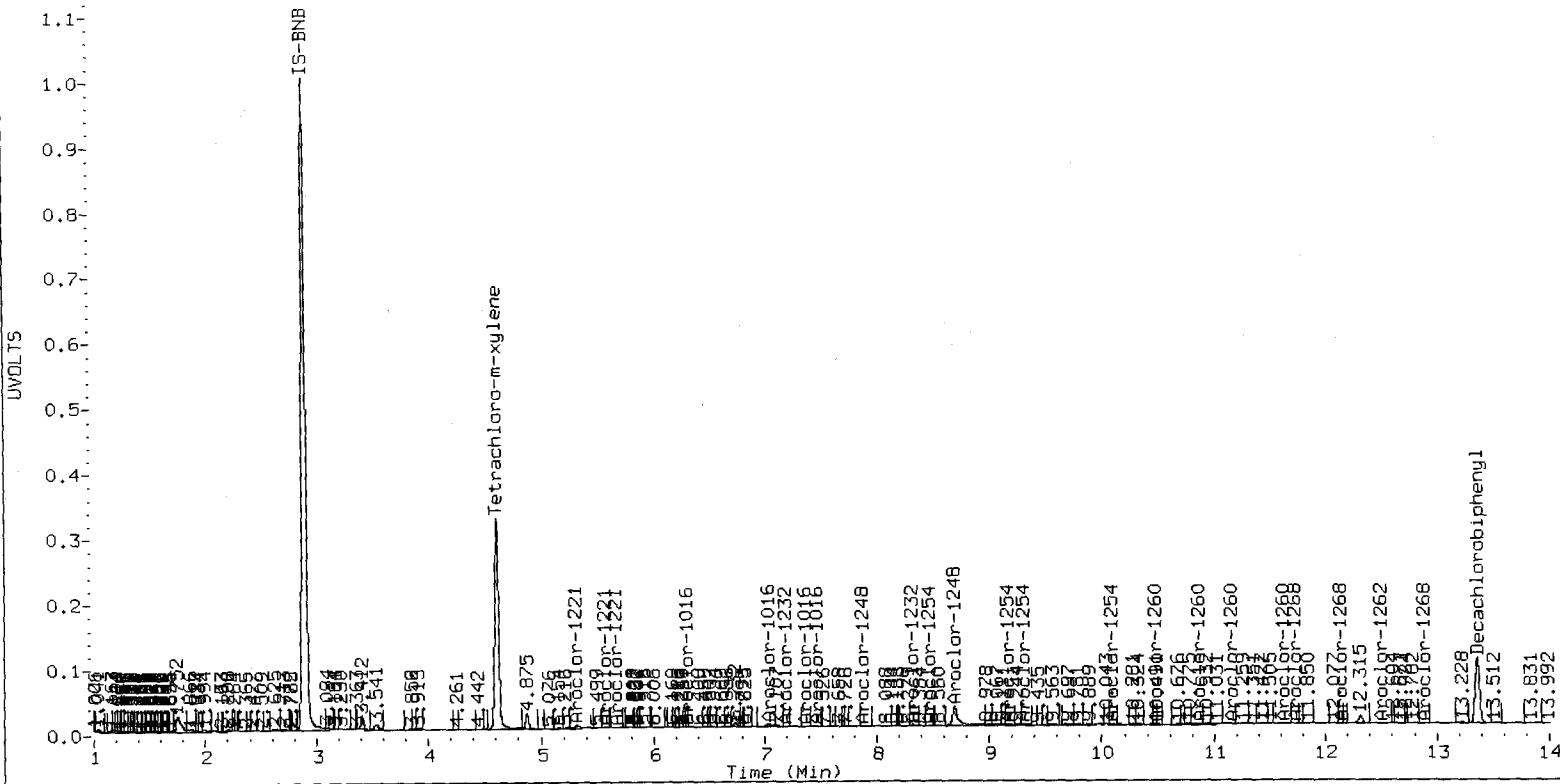
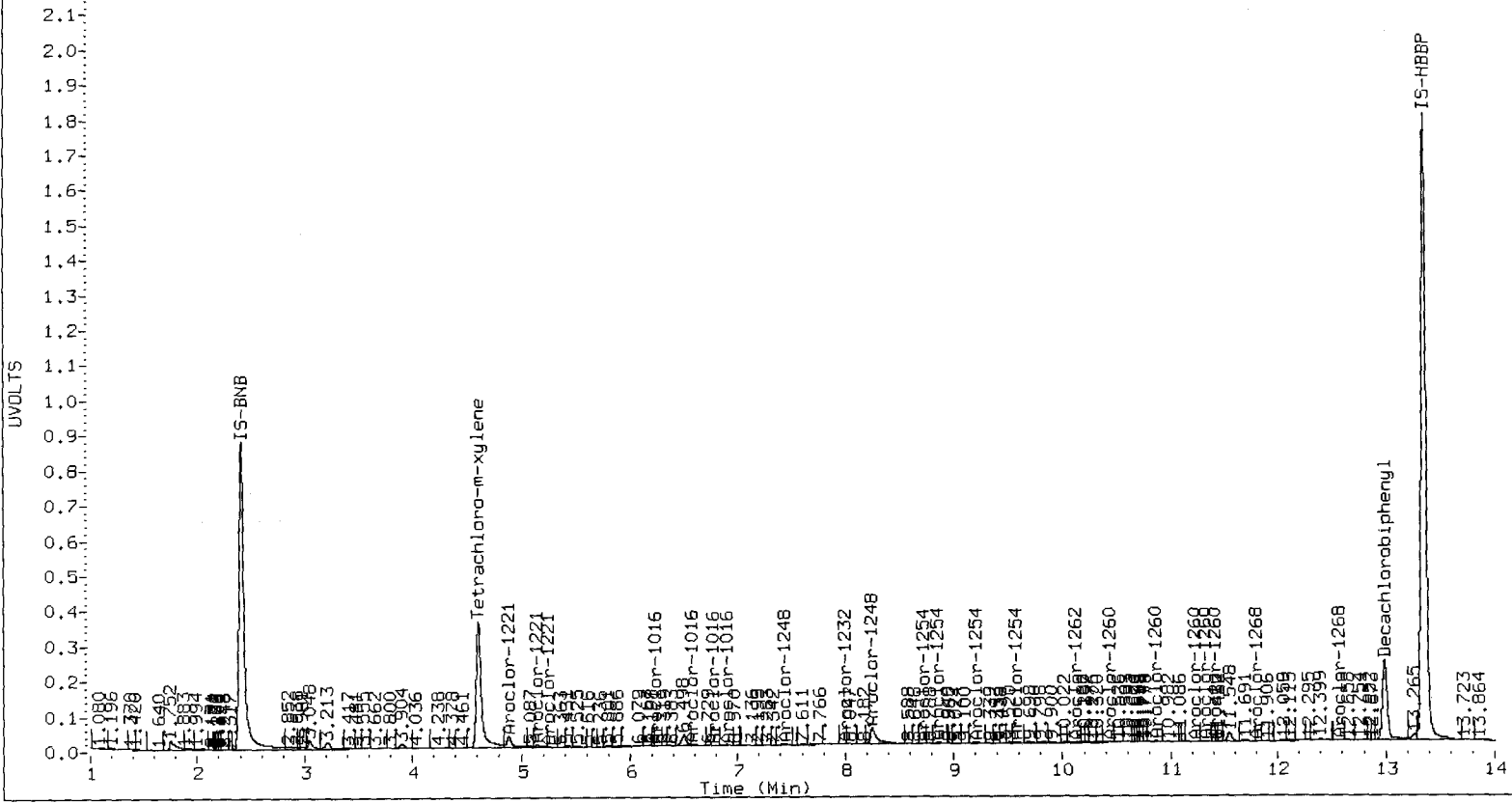
Total PCB Area Col1 (4.708 - 12.891) = 37956763 Col1 Total PCB = 0.0 ppm*

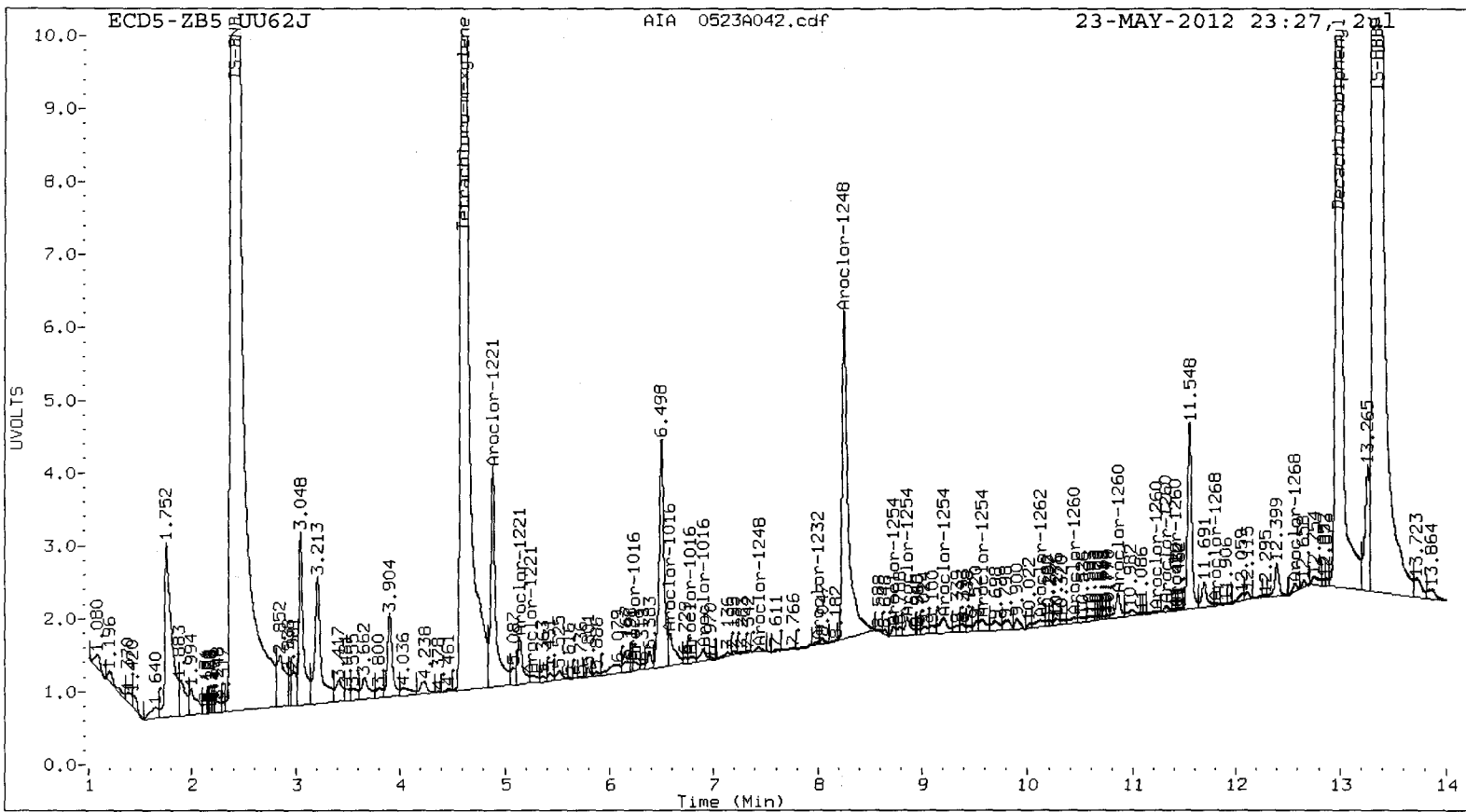
Total PCB Area Col2 (4.708 - 13.264) = 16005703 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01809





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A043.d
Data file 2: 20120523.b/0523-2.b/0523A043.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: UU62K
Client ID:
Injection Date: 23-MAY-2012 23:46
Ical Date: 23-MAY-2012
Matrix: WATER
Dilution Factor: 1.000

Y2 5/24/12

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|-------|-----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 4.608 | 0.000 | 82782170 | 4.610 | 0.001 | 53115120 | 36.0 | 31.5 | 13.3 | Tetrachloro-m-xylene |
| 12.991 | 0.001 | 120396598 | 13.365 | 0.001 | 48553247 | 28.4 | 31.2 | 9.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 89.9 | 78.7 |
| Decachlorobiphenyl | 70.9 | 78.0 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 143187362 | -7.2 |
| Hexabromobiphenyl | 248602423 | 276489856 | 11.2 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 119881217 | 8.4 |
| Hexabromobiphenyl | 108855531 | 120505308 | 10.7 |

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
- <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|----------|--------------------------|-------|--------|--------|---------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 6.235 | -0.005 | 317135 | 5.3 | 1 | 6.345 | 0.000 | 42159 | 0.7 | |
| Aroclor-1016 | 2 | 6.576 | -0.065 | 746693 | 3.8 | 2 | 7.027 | 0.053 | 372646 | 2.6 | |
| Aroclor-1016 | 3 | 6.773 | -0.016 | 81709 | 1.1 | 3 | 7.296 | -0.060 | 11895 | 0.3 | |
| Aroclor-1016 | 4 | 6.899 | -0.001 | 553440 | 9.1 | 4 | 7.475 | 0.013 | 38564 | 0.9 | |
| Total CollAve (4 peaks): | | | | 4.8 | Total Col2Ave (4 peaks): | | | | 1.1 | RPD = 124* | |
| Corrected Ave (3 peaks): | | | | 3.4 | Corrected Ave (3 peaks): | | | | 0.6 | RPD = 136* | |
| Aroclor-1221 | 1 | 4.888 | 0.004 | 6835984 | 636.9 | 1 | 5.313 | 0.024 | 1167523 | 61.8 | |
| Aroclor-1221 | 2 | 5.143 | -0.010 | 1787409 | 103.4 | 2 | 5.564 | 0.028 | 48333 | 4.3 | |
| Aroclor-1221 | 3 | 5.265 | 0.006 | 340358 | 6.0 | 3 | 5.665 | 0.016 | 260295 | 7.5 | |
| Aroclor-1221 | NS | --- | --- | --- | --- | 4 | --- | --- | --- | 0.0 | |
| Total CollAve (3 peaks): | | | | 248.8 | Total Col2Ave (3 peaks): | | | | 24.5 | RPD = 164* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1232 | 1 | 6.235 | -0.003 | 317135 | 12.7 | 1 | 6.345 | 0.000 | 42159 | 1.5 | |
| Aroclor-1232 | 2 | 6.576 | -0.063 | 746693 | 9.0 | 2 | 7.027 | 0.055 | 372646 | 6.2 | |
| Aroclor-1232 | 3 | 6.773 | -0.014 | 81709 | 2.4 | 3 | 7.230 | 0.051 | 13500 | 0.7 | |
| Aroclor-1232 | 4 | 7.981 | 0.001 | 24841 | 0.8 | 4 | 8.318 | -0.007 | 94291 | 4.2 | |
| Total CollAve (4 peaks): | | | | 6.2 | Total Col2Ave (4 peaks): | | | | 3.1 | RPD = 66* | |
| Corrected Ave (3 peaks): | | | | 4.1 | Corrected Ave (3 peaks): | | | | 2.1 | RPD = 63* | |
| Aroclor-1242 | 1 | 6.235 | -0.002 | 317135 | 7.0 | 1 | 6.345 | 0.002 | 42159 | 0.9 | |
| Aroclor-1242 | 2 | 6.576 | -0.061 | 746693 | 5.0 | 2 | 7.027 | 0.056 | 372646 | 3.4 | |
| Aroclor-1242 | 3 | 6.773 | -0.013 | 81709 | 1.4 | 3 | 7.230 | 0.052 | 13500 | 0.3 | |
| Aroclor-1242 | 4 | 7.981 | 0.001 | 24841 | 0.4 | 4 | 8.318 | -0.005 | 94291 | 2.4 | |
| Total CollAve (4 peaks): | | | | 3.5 | Total Col2Ave (4 peaks): | | | | 1.7 | RPD = 67* | |
| Corrected Ave (3 peaks): | | | | 2.3 | Corrected Ave (3 peaks): | | | | 1.2 | RPD = 62* | |
| Aroclor-1248 | 1 | 6.576 | -0.062 | 746693 | 7.4 | 1 | 7.027 | 0.057 | 372646 | 5.2 | |
| Aroclor-1248 | 2 | 7.446 | 0.009 | 63199 | 0.8 | 2 | 7.903 | 0.029 | 56835 | 1.0 | |
| Aroclor-1248 | 3 | 7.981 | -0.002 | 24841 | 0.3 | 3 | 8.318 | -0.008 | 94291 | 1.4 | |
| Aroclor-1248 | 4 | 8.254 | -0.020 | 11501623 | 117.2 | 4 | 8.691 | -0.056 | 6409890 | 81.9 | |
| Total CollAve (4 peaks): | | | | 31.4 | Total Col2Ave (4 peaks): | | | | 22.4 | RPD = 34 | |
| Corrected Ave (3 peaks): | | | | 2.8 | Corrected Ave (3 peaks): | | | | 2.5 | RPD = 12 | |
| Aroclor-1254 | 1 | --- | --- | --- | 0.0 | 1 | 8.460 | -0.005 | 28134 | 0.5 | |
| Aroclor-1254 | 2 | 8.730 | 0.003 | 132043 | 1.6 | 2 | 8.691 | 0.053 | 6409890 | 95.8 | |
| Aroclor-1254 | 3 | 8.857 | -0.007 | 219676 | 1.3 | 3 | 9.159 | 0.000 | 73746 | 1.4 | |
| Aroclor-1254 | 4 | 9.206 | -0.007 | 255757 | 1.5 | 4 | 9.309 | 0.000 | 30843 | 0.3 | |
| Aroclor-1254 | 5 | 9.602 | 0.028 | 147606 | 1.3 | 5 | 10.066 | -0.027 | 25766 | 0.4 | |
| Total CollAve (4 peaks): | | | | 1.4 | Total Col2Ave (5 peaks): | | | | 19.7 | RPD = 173* | |
| Corrected Ave (3 peaks): | | | | 1.4 | Corrected Ave (4 peaks): | | | | 0.7 | RPD = 71* | |
| Aroclor-1260 | 1 | 10.515 | 0.069 | 252263 | 1.7 | 1 | 10.460 | 0.040 | 138855 | 2.0 | |
| Aroclor-1260 | 2 | 10.860 | 0.040 | 781622 | 2.1 | 2 | 10.879 | 0.008 | 11257 | 0.1 | |
| Aroclor-1260 | 3 | 11.213 | -0.008 | 14008 | 0.1 | 3 | --- | --- | --- | 0.0 | |
| Aroclor-1260 | 4 | 11.323 | -0.014 | 118502 | 1.3 | 4 | 11.617 | -0.048 | 293455 | 5.8 | |
| Aroclor-1260 | 5 | 11.456 | 0.046 | 31034 | 0.3 | NS | --- | --- | --- | --- | |
| Total CollAve (5 peaks): | | | | 1.1 | Total Col2Ave (3 peaks): | | | | 2.6 | RPD = 83* | |
| Corrected Ave (4 peaks): | | | | 0.8 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1262 | 1 | 10.135 | 0.007 | 331576 | 1.5 | 1 | 10.460 | 0.040 | 138855 | 1.2 | |
| Aroclor-1262 | 2 | 10.515 | 0.071 | 252263 | 1.5 | 2 | 10.879 | 0.009 | 11257 | 0.1 | |
| Aroclor-1262 | 3 | 10.860 | 0.042 | 781622 | 1.7 | 3 | --- | --- | --- | 0.0 | |
| Aroclor-1262 | 4 | 11.323 | -0.011 | 118502 | 0.7 | 4 | 11.617 | -0.047 | 293455 | 3.3 | |
| Aroclor-1262 | 5 | 11.456 | 0.048 | 31034 | 0.2 | 5 | 12.431 | -0.032 | 23436 | 0.3 | |
| Total CollAve (5 peaks): | | | | 1.1 | Total Col2Ave (4 peaks): | | | | 1.2 | RPD = 10 | |
| Corrected Ave (4 peaks): | | | | 1.0 | Corrected Ave (3 peaks): | | | | 0.5 | RPD = 56* | |
| Aroclor-1268 | 1 | 11.323 | -0.012 | 118502 | 0.3 | 1 | 11.617 | -0.047 | 293455 | 1.3 | |
| Aroclor-1268 | 2 | 11.456 | 0.049 | 31034 | 0.1 | 2 | 11.714 | -0.016 | 26422 | 0.1 | |

| | | | | | | | | | |
|--------------------------|--------|--------|--------|--------------------------|---|--------|-------|-----------|-----|
| Aroclor-1268 3 | 11.746 | -0.046 | 106015 | 0.3 | 3 | 12.134 | 0.007 | 57249 | 0.3 |
| Aroclor-1268 4 | 12.575 | -0.010 | 160244 | 0.1 | 4 | 12.950 | 0.000 | 150530 | 0.3 |
| Total Col1Ave (4 peaks): | | | 0.2 | Total Col2Ave (4 peaks): | | | 0.5 | RPD = 94* | |
| Corrected Ave (3 peaks): | | | 0.2 | Corrected Ave (3 peaks): | | | 0.2 | RPD = 46* | |

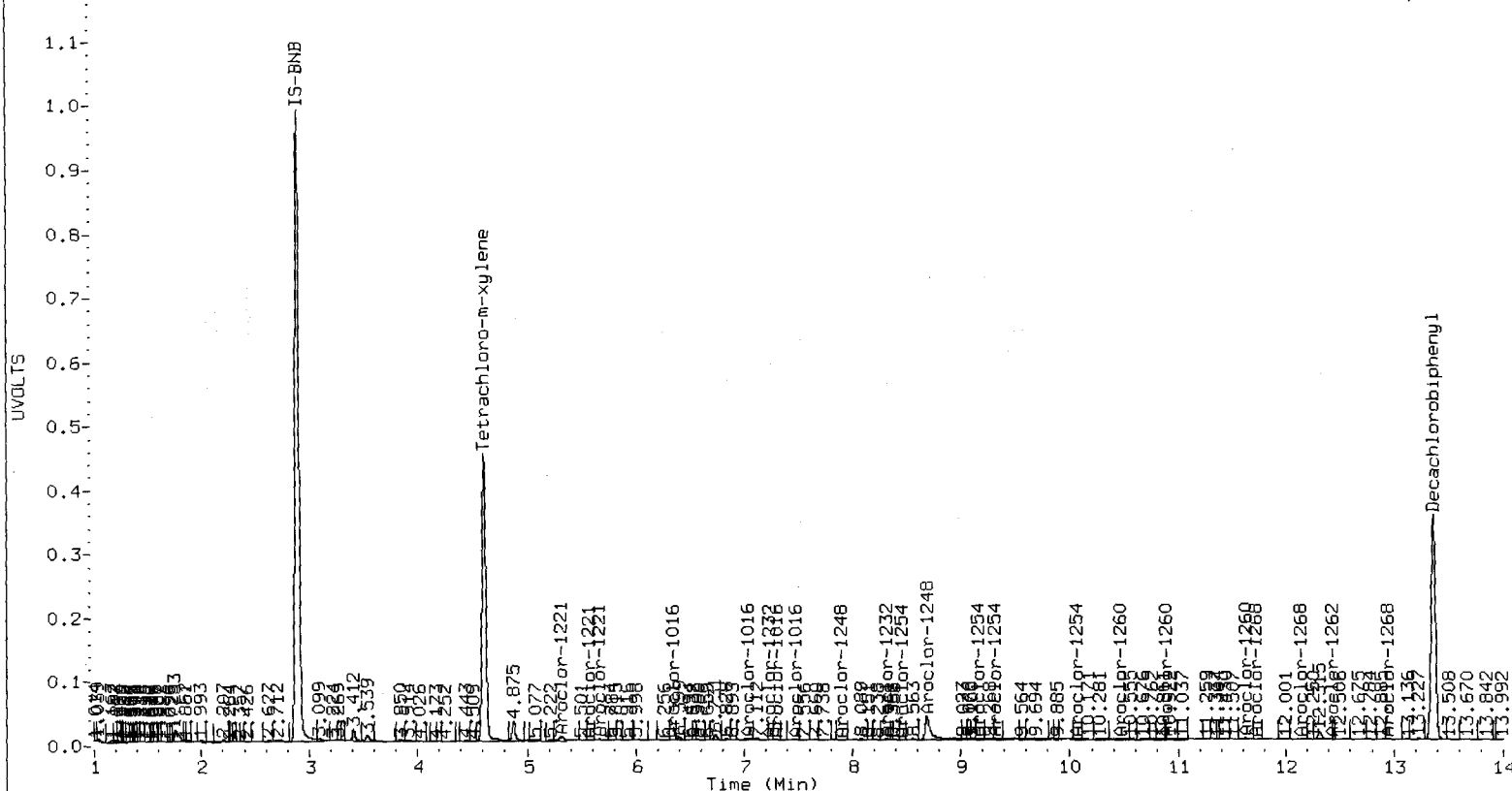
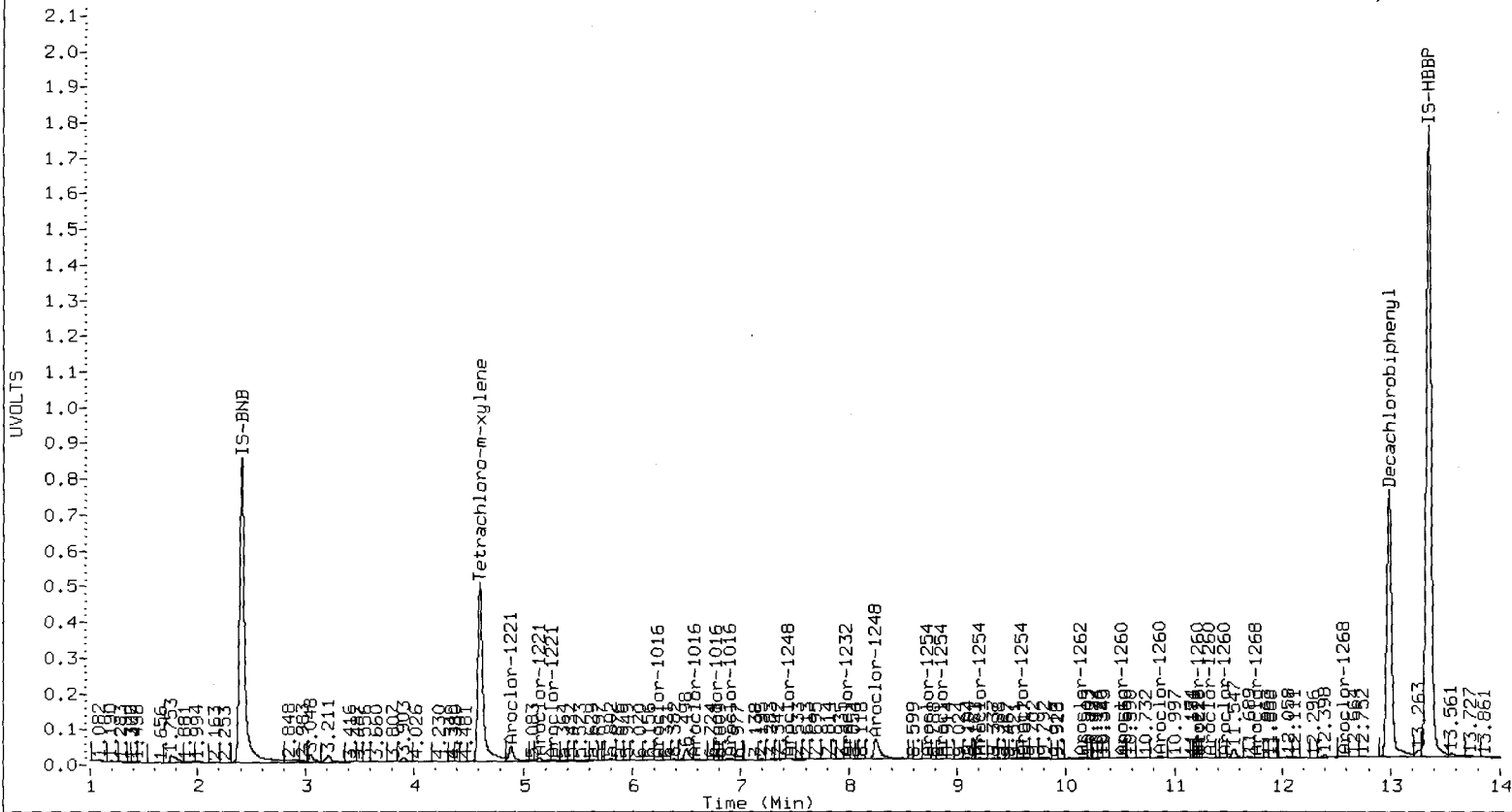
Total PCB Area Col1 (4.708 - 12.891) = 43437831 Col1 Total PCB = 0.0 ppm*

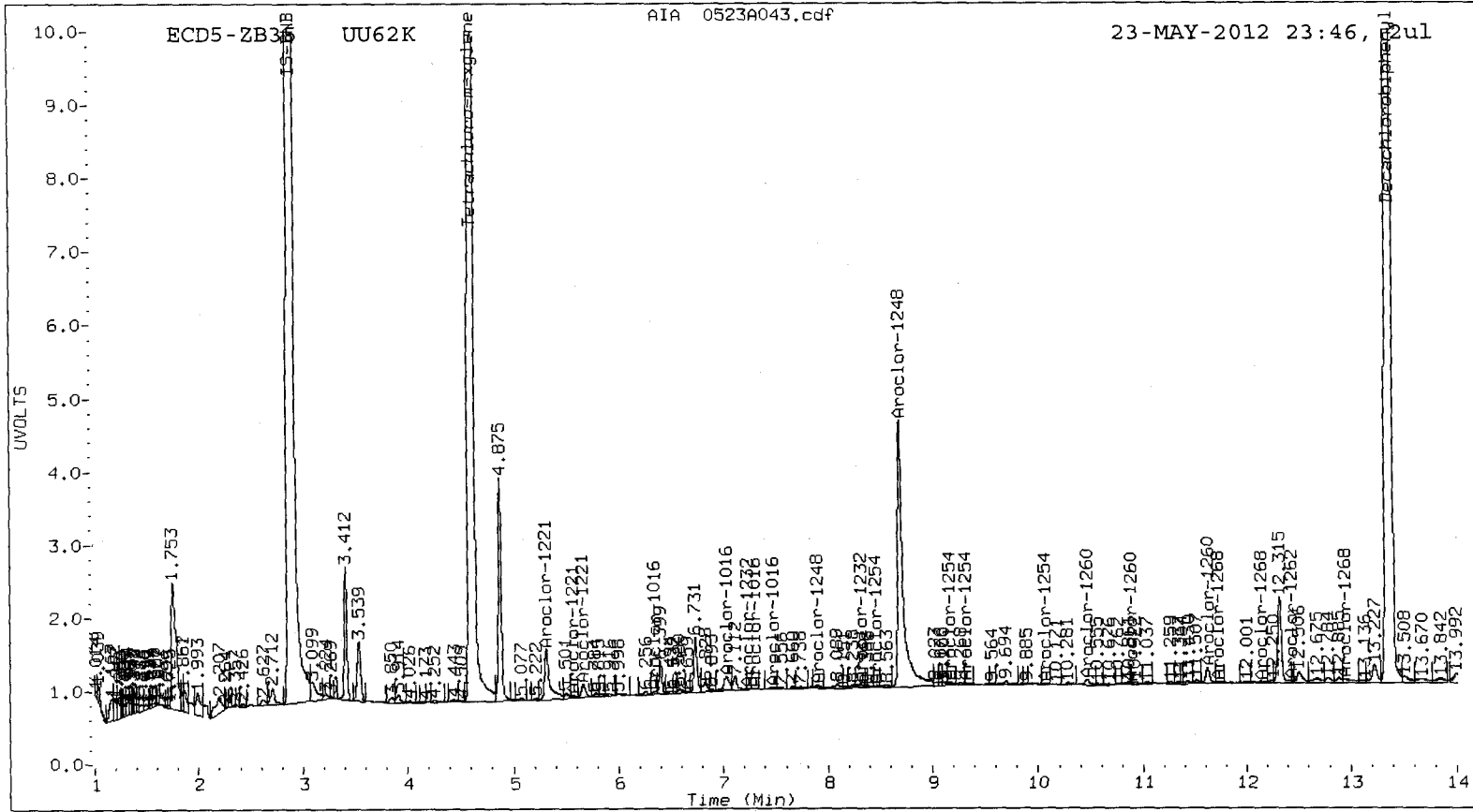
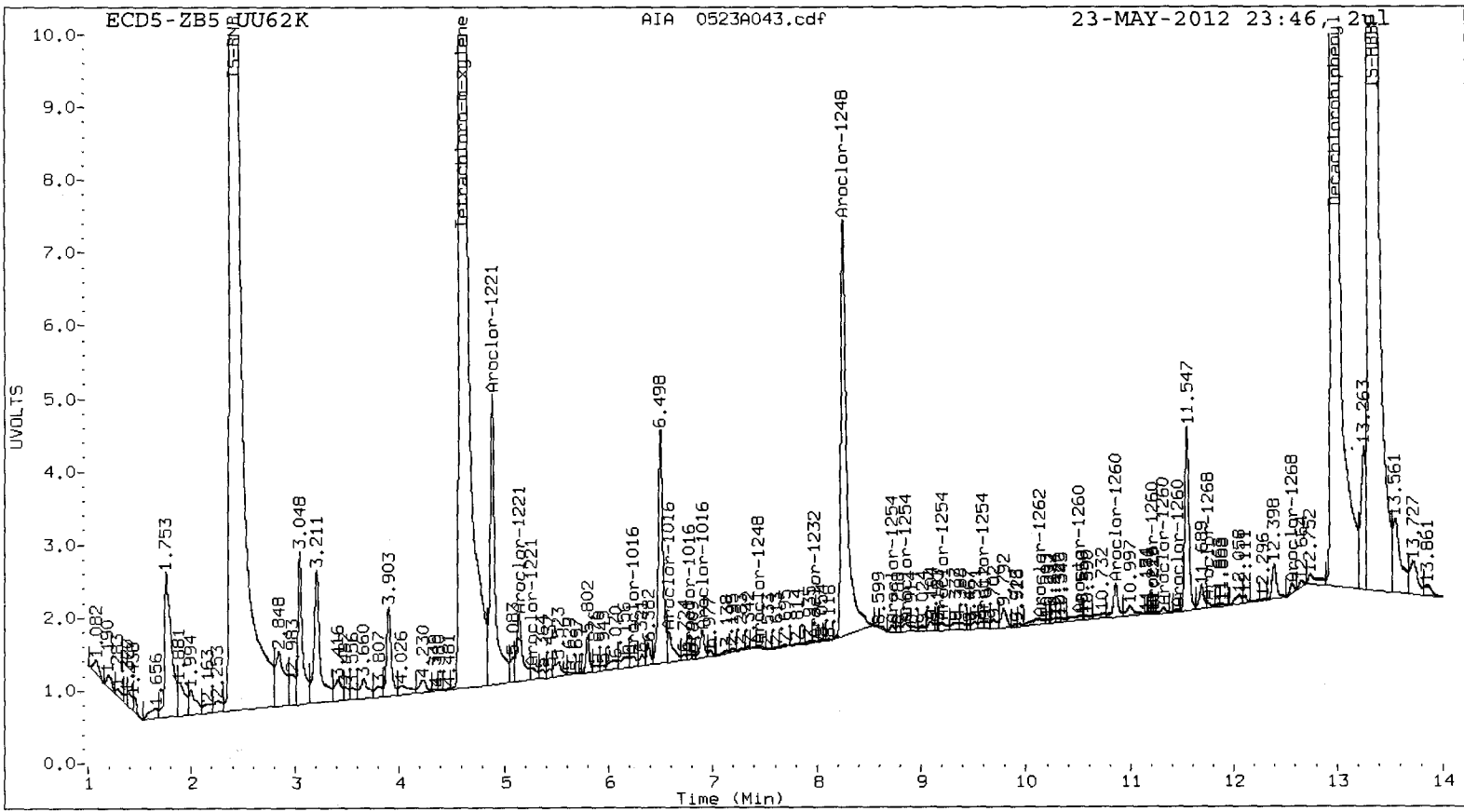
Total PCB Area Col2 (4.708 - 13.264) = 18699081 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

UU52:01814





UU52 : 01816

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A044.d
Data file 2: 20120523.b/0523-2.b/0523A044.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 24-MAY-2012 00:05
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| ZB5 Col | | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag |
|---------|-------|----------|----------|-------|----------|--------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.608 | 0.000 | 51085701 | 4.609 | 0.001 | 32971555 | 19.8 | 20.2 | 1.7 | Tetrachloro-m-xylene |
| 12.991 | 0.000 | 72685123 | 13.365 | 0.000 | 28426991 | 18.8 | 19.9 | 5.7 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 49.6 | 50.4 |
| Decachlorobiphenyl | 46.9 | 49.7 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 160327246 | 4.0 |
| Hexabromobiphenyl | 248602423 | 252246910 | 1.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 116212123 | 5.1 |
| Hexabromobiphenyl | 108855531 | 110664641 | 1.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|--------|-------|----------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 8.356 | 0.000 | 37200924 | 252.8 | 1 | 8.465 | 0.000 | 12745828 | 249.8 | |
| Aroclor-1254 | 2 | 8.727 | 0.000 | 24090959 | 254.3 | 2 | 8.638 | 0.000 | 16245123 | 250.5 | |
| Aroclor-1254 | 3 | 8.863 | 0.000 | 46499313 | 254.2 | 3 | 9.159 | 0.000 | 12403180 | 250.3 | |
| Aroclor-1254 | 4 | 9.213 | 0.000 | 50279385 | 255.3 | 4 | 9.310 | 0.000 | 27253015 | 248.6 | |
| Aroclor-1254 | 5 | 9.574 | 0.000 | 31347238 | 255.9 | 5 | 10.093 | 0.000 | 16109320 | 250.7 | |
| Total CollAve (5 peaks): | | | | 254.5 | | Total Col2Ave (5 peaks): | | | | 250.0 | RPD = 2 |
| Corrected Ave (4 peaks): | | | | 254.2 | | Corrected Ave (4 peaks): | | | | 249.8 | RPD = 2 |

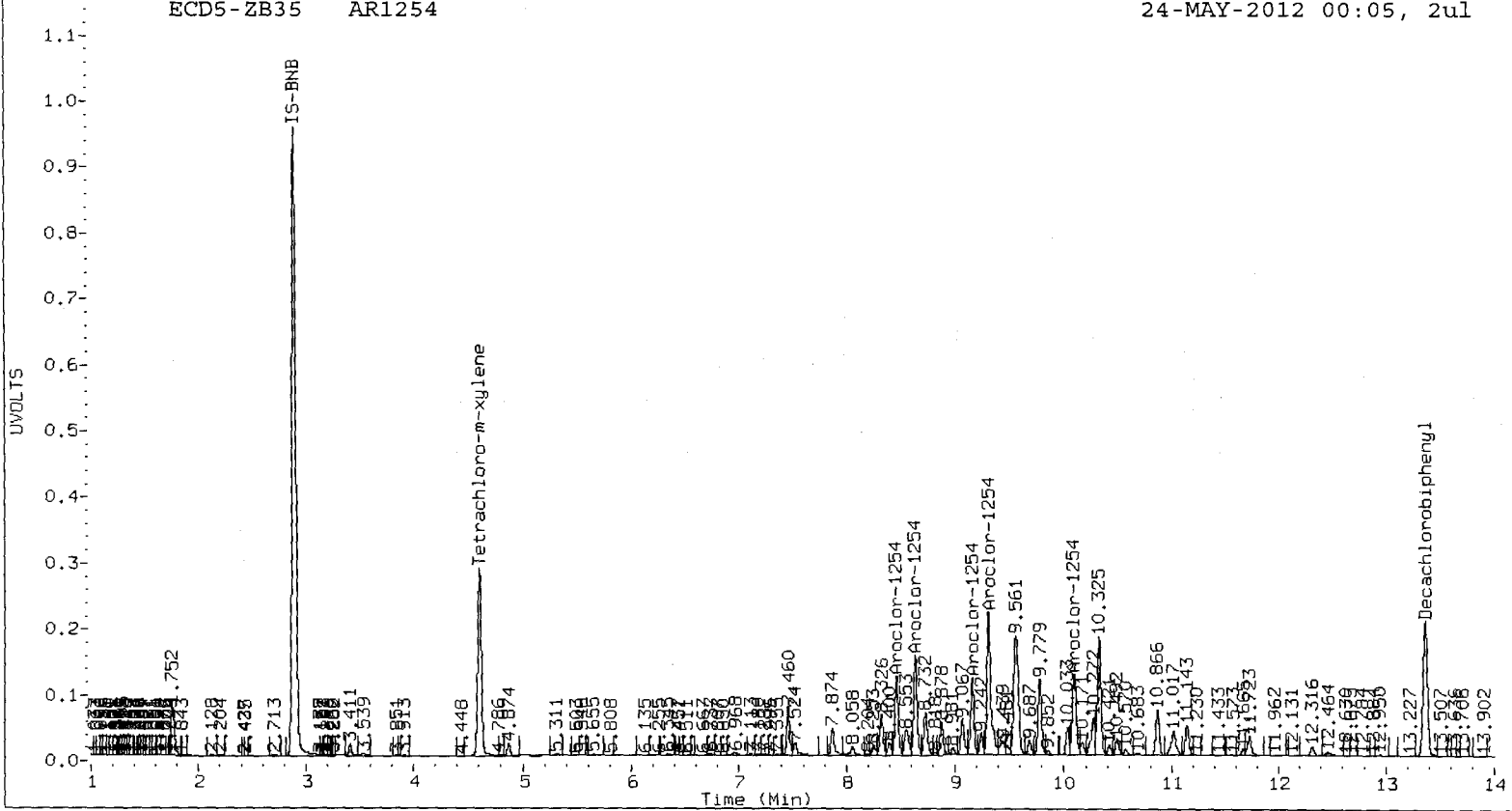
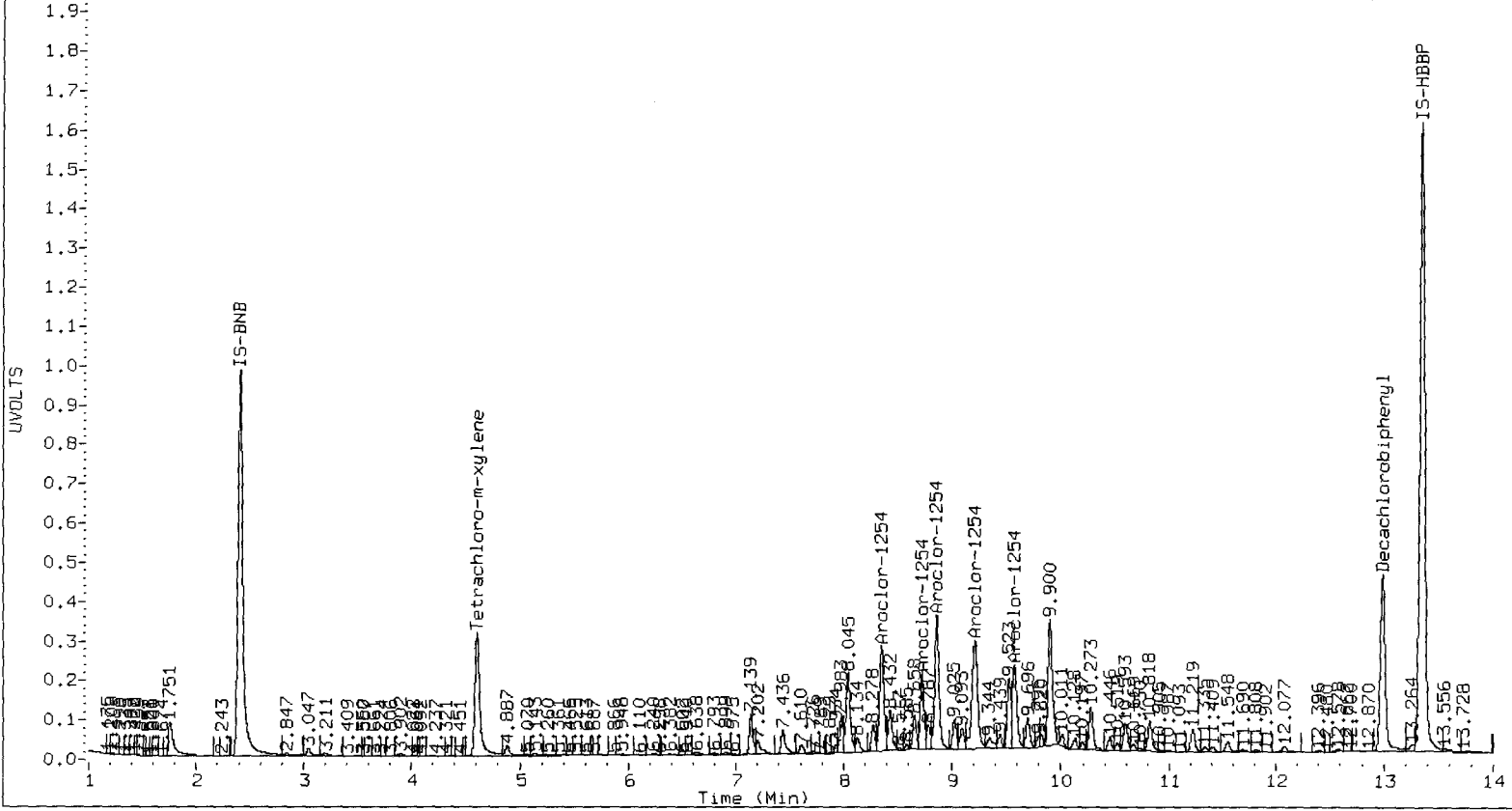
Total PCB Area Col1 (4.708 - 12.891) = 494798515

Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 261176517

Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20120523.b/0523-1.b/0523A045.d
Data file 2: 20120523.b/0523-2.b/0523A045.d
Method: /chem2/ecd5.i/20120523.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 24-MAY-2012 00:24
Ical Date: 23-MAY-2012
Matrix: SOIL
Dilution Factor: 1.000

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|-----|----------------------|
| 4.608 | 0.000 52472578 | 4.608 0.000 33808642 | 20.2 | 20.4 | 0.9 | Tetrachloro-m-xylene |
| 12.991 | 0.000 74453161 | 13.364 0.000 29222130 | 18.9 | 20.1 | 6.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

| SURROGATE | Col1 | Col2 |
|----------------------|------|------|
| Tetrachloro-m-xylene | 50.5 | 50.9 |
| Decachlorobiphenyl | 47.2 | 50.3 |

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 154228462 | 161663605 | 4.8 |
| Hexabromobiphenyl | 248602423 | 256774071 | 3.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 110618229 | 117932972 | 6.6 |
| Hexabromobiphenyl | 108855531 | 112374282 | 3.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 23-MAY-2012
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|-------|----------|--------|--------------------------|-------|-------|----------|--------|---------|
| Aroclor-1016 | 1 | 6.241 | 0.000 | 15942714 | 236.4 | 1 | 6.346 | 0.000 | 15003392 | 243.7 | |
| Aroclor-1016 | 2 | 6.641 | 0.000 | 53749445 | 244.5 | 2 | 6.974 | 0.000 | 34586093 | 247.5 | |
| Aroclor-1016 | 3 | 6.790 | 0.000 | 21441142 | 247.3 | 3 | 7.356 | 0.000 | 8797111 | 244.0 | |
| Aroclor-1016 | 4 | 6.900 | 0.000 | 15440044 | 226.0 | 4 | 7.462 | 0.000 | 9905486 | 247.1 | |
| Total Col1Ave (4 peaks): | | | | 238.5 | | Total Col2Ave (4 peaks): | | | | 245.6 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 235.6 | | Corrected Ave (3 peaks): | | | | 245.0 | RPD = 4 |

| | | | | | | | | | | | |
|--------------------------|---|--------|-------|----------|-------|--------------------------|--------|-------|----------|-------|---------|
| Aroclor-1260 | 1 | 10.446 | 0.000 | 34566678 | 248.1 | 1 | 10.420 | 0.000 | 16388166 | 254.3 | |
| Aroclor-1260 | 2 | 10.820 | 0.000 | 84317702 | 243.9 | 2 | 10.871 | 0.000 | 20378506 | 254.7 | |
| Aroclor-1260 | 3 | 11.220 | 0.000 | 47777024 | 248.6 | 3 | 11.144 | 0.000 | 41510002 | 255.5 | |
| Aroclor-1260 | 4 | 11.337 | 0.000 | 20240547 | 245.3 | 4 | 11.665 | 0.000 | 11960422 | 252.1 | |
| Aroclor-1260 | 5 | 11.410 | 0.000 | 24585940 | 249.6 | NS | --- | | | --- | |
| Total Col1Ave (5 peaks): | | | | 247.1 | | Total Col2Ave (4 peaks): | | | | 254.1 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 246.5 | | Corrected Ave (3 peaks): | | | | 253.7 | RPD = 3 |

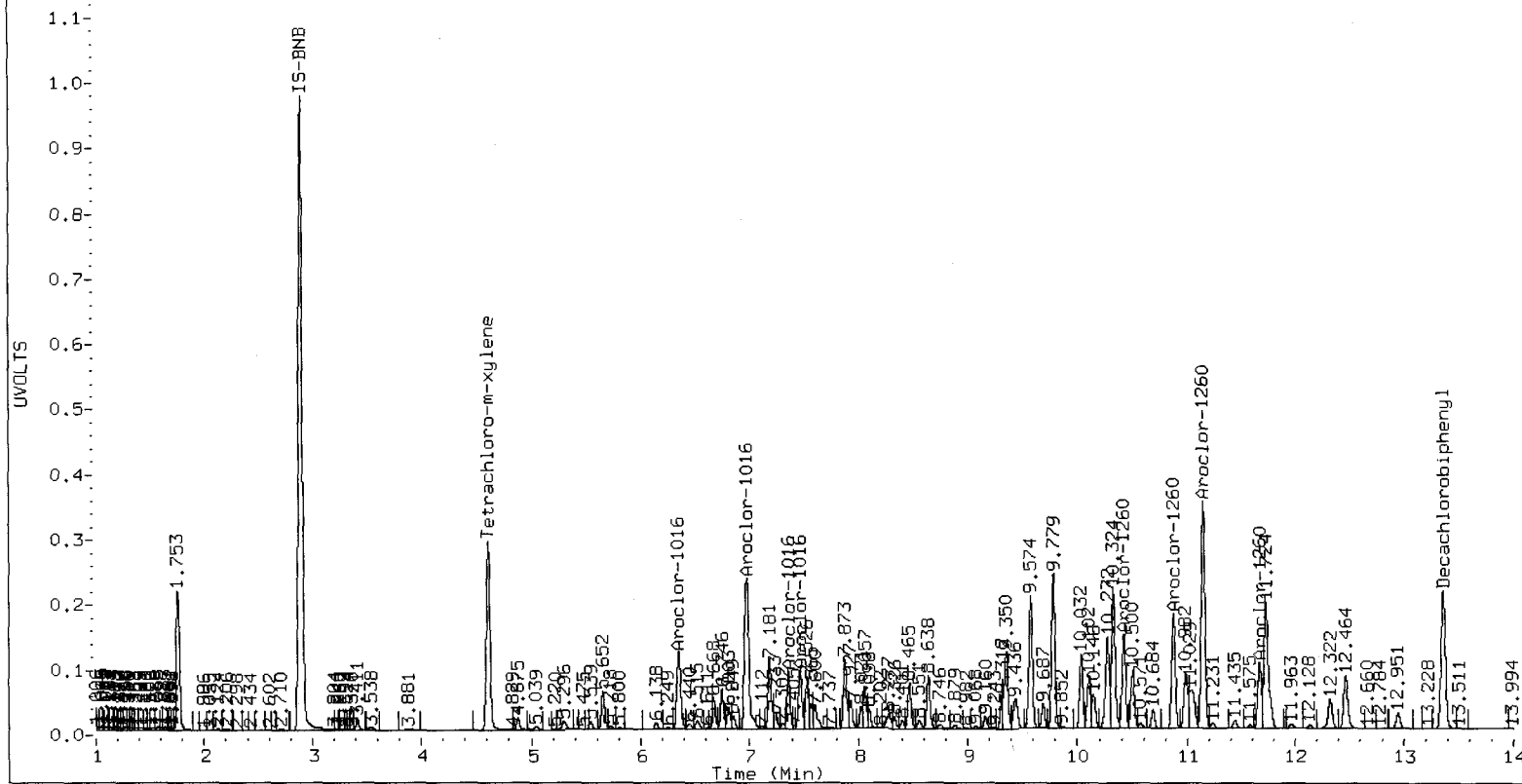
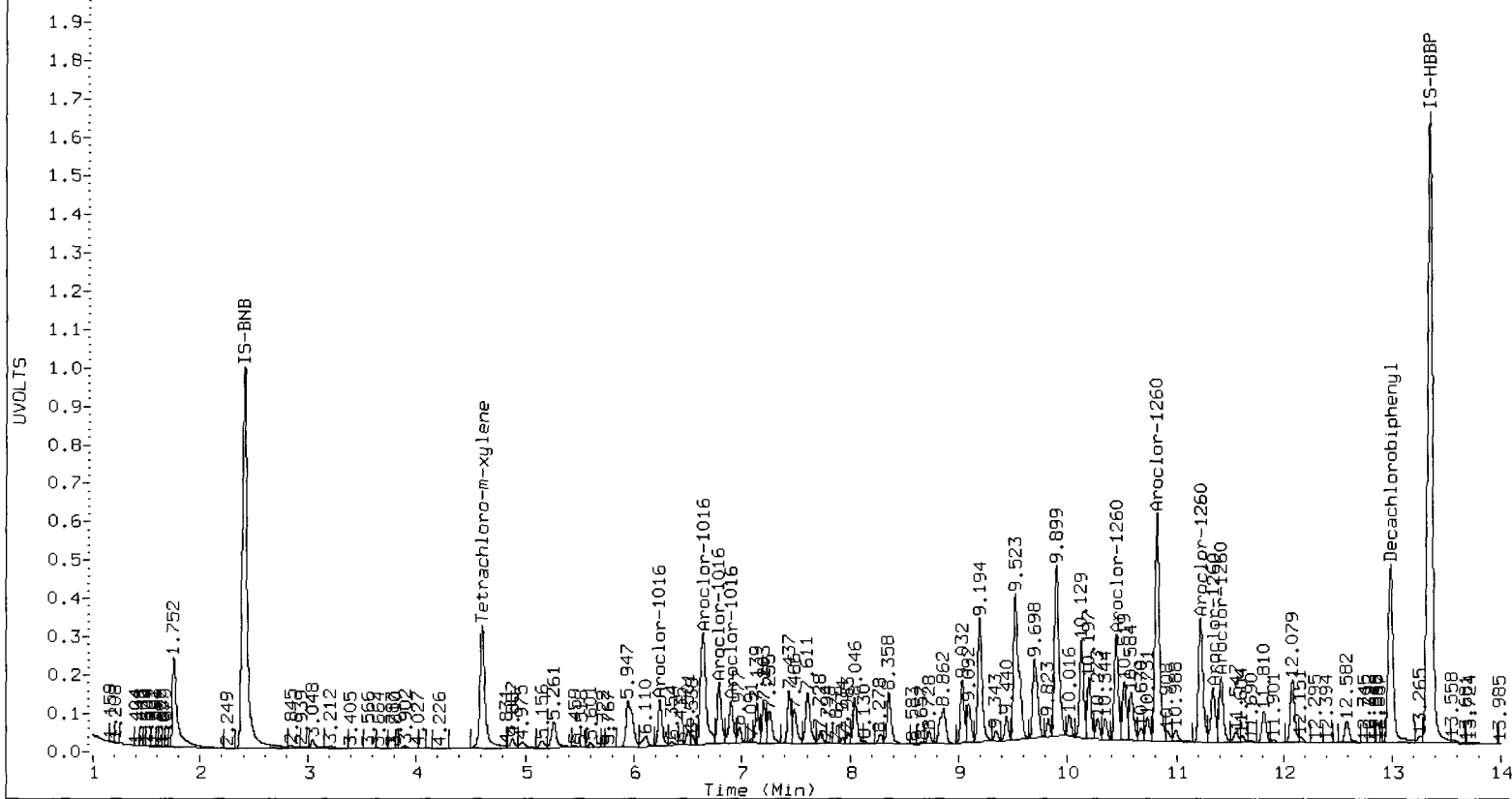
Total PCB Area Col1 (4.708 - 12.891) = 977782958

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (4.708 - 13.264) = 514300563

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



**TPHD Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: UU52, UU62



Preparation Test TPHD # 3 (DIESMI)

ARI Job No(s) UU52

Page 1 of 1

In-House (5ppm)
Batch set up by: JH

| Bottle # | Extraction Requirements | Weight Extracted (wet wt) | Acid Clean (1:1) Y/N | Silica Gel Clean (1:1) Y/N | Final Effective Volume | Volume to Lab | Comments | Verify Client ID |
|--------------|-------------------------|---------------------------|----------------------|----------------------------|------------------------|----------------|----------|--|
| | <u>UU52</u> MBS | 10.00g | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | NL 5/21/12 |
| | ↓ SBS | 10.00g | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | SBS Dup. | 10.00g | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | QLS | 10.00g | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | | | | | | | Microwave |
| 5 | <u>UU52A</u> | 10.18 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | NL 5/21/12 |
| 5 | B | 10.15 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | C | 10.48 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | D | 10.18 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | E | 10.11 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | Analyst/Date |
| 5 | F | 10.27 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | TurboVap 123 Pre-Acid/Silica Clean ww 5/21/12 |
| 5 | G | 10.16 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | H | 10.11 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | I | 10.12 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | Im5 | 10.14 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | Analyst/Date |
| 5 | Im5d | 10.14 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| 5 | ↓ J | 10.18 | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 10. | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 10. | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | TurboVap 120 Post Acid/Silica Clean ww 5/21/12 |
| | | 10. | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 10. | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 10. | (1:1) Y/N | (1:1) Y/N | 1mL | 1mL | | |
| Analyst/Date | NL 5/21/12 | | ww 5/21/12 | ww 5/21/12 | ww 5/21/12 | ww 5/21/12 | | Analyst/Date |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|------------------------------|-------------------|----------------------|-----------------|-------------------------------|---------|---------|
| Surrogate | 0 (1947-2) | 450µg/mL | 100µL | 9/28/12 | NL | SP |
| Spike | 11 (1965-2) | 15000µg/mL | 100µL | 4/29/13 | NL | SP |
| QLS Spike | 18 (-) | 1000µg/mL | 50µL | | | |
| Extraction Time: <u>0935</u> | | | | Balance ID: <u>B139290672</u> | | |

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM to the vessel until the solvent is 1" above soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then let cool 15 min. in cold water bath. 7. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 8. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 9. TurboVap. 10. Acid/Silica Clean-up? Y/N. 11. TurboVap (if Silica Clean). 12. Vial in DCM.

A. Need Total Solids Y/(N) B. Archive/Freeze Y/(N)



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: UU52

Client ID: Anchor QEA, LLC

Parameter: TPHD W/ACIS

Client Project: Jeld Wen Mawlsby Marsh

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|--------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= | AC 5-16-12 |
| <input type="checkbox"/> Standing Water Decanted (Not shared)= | |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves <u>sticks</u> <u>grass</u>)= B < 5% sticks D = 30% grass/sticks E = 10% grass h = 30% i = 30% F = 60% grass/sticks g = 50% grass/sticks | AC 5-16-12 |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= B- | |
| <input type="checkbox"/> Other (Details)= | |
| Aqueous: | |
| <input type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |

3056F

Revision 008
11/02/11

UU52: 01825



Preparation Test TPHD/HCID # 1(DIEWSI)

ARI Job No(s) uu62, uu74

Page 1 of 1

In-House (0.25-0.50ppm)

Batch set up by: SP

| Bottle # | Extraction Requirements | Volume Extracted | DryVap Module # Y/N | Acid/Silica Clean (1:1) (1mL) Y/N | Final Effective Volume | Volume to Lab | Comments | Verify Client ID |
|--------------|-------------------------|------------------|------------------------|--------------------------------------|------------------------|----------------------|----------|--------------------------------------|
| | <u>uu62</u> MBW | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | ML 5/18/12 |
| | SBW | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | SBW Dup. | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | QLS | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| <u>6</u> | <u>J</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| <u>3</u> | <u>K</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | Analyst/Date KD 80-85°C Y/N |
| <u>4</u> | <u>uu74 A</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| <u>4</u> | <u>B</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | YL |
| <u>4</u> | <u>C</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| <u>4</u> | <u>D</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | 5/18/12 |
| <u>4</u> | <u>E</u> | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | Analyst/Date |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | Turbo Vap A23 |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | ww 5/18/12 |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | Analyst/Date |
| | | 500mL | # Y/N | (1:1) Y/N | 1mL | 1mL | | |
| Analyst/Date | <u>NLS/18/12</u> | | | <u>ww</u> 5/18/12 | <u>ww</u> 5/18/12 | <u>ww</u> 5/18/12 | | |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|-----------|--------------------|---------------|--------|-----------------|----------|-------------------|
| Surrogate | <u>0 (1447-2)</u> | 450µg/mL | 100µL | <u>9/28/12</u> | <u>M</u> | <u>SP 5/18/12</u> |
| Spike | <u>11 (1965-2)</u> | 15000µg/mL | 100µL | <u>4/9/13</u> | <u>M</u> | <u>SP 5/18/12</u> |
| QLS Spike | <u>18 (1970-1)</u> | 1000µg/mL | 50µL | <u>5/7/13</u> | <u>M</u> | <u>SP 5/18/12</u> |

Extraction Time: 11:50

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH. 4. Extract 2X with 30mL DCM.

5. DryVap or KD at 80°. 6. TurboVap if KD. 7. Acid/Silica Clean-ups? Y/N 8. Vial in DCM.

**TPHD Raw Data
Initial Calibration**

ARI Job ID: UU52, UU62



used curve

GC Initial Calibration Notes

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) Other

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 5/15/12 Internal Standard ID N/A Expiration N/A

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? YES / NO
ICal Meets %RSD & r² Criteria YES / NO ICV Exceeding ±30%? YES / NO
Manual Integrations for ICal? YES / NO Linear Fits Used? YES / NO
Minimum Response S/N Met YES / NO Quadratic Fits Used? YES / NO
Calibration Points Dropped? ^{high points} YES / NO

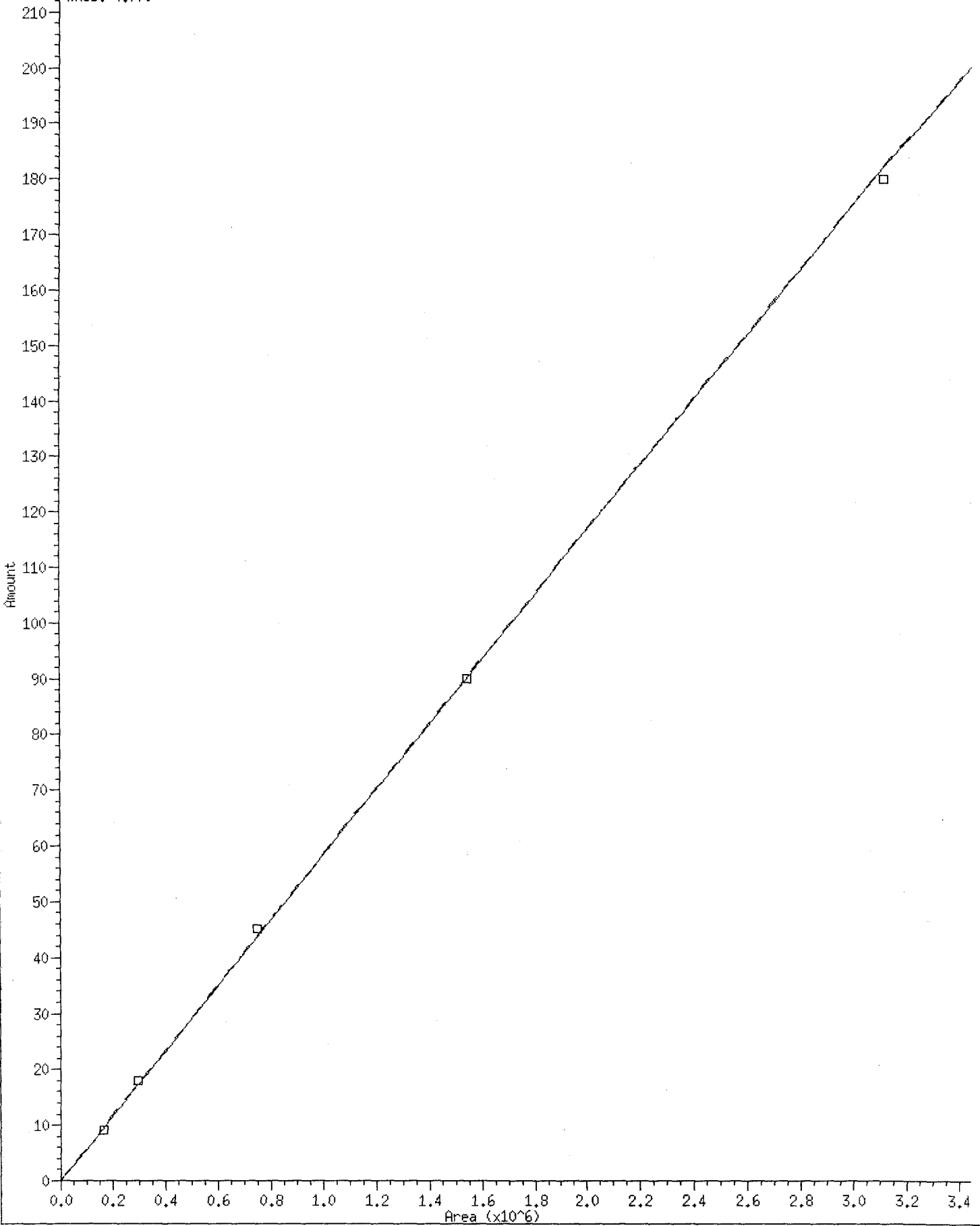
| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|----------------|---------------|----------------|------------------|---------------|----------------|
| <u>76</u> | <u>1972-1</u> | <u>9/28/12</u> | <u>shell</u> | <u>1977-3</u> | <u>9/28/12</u> |
| | | | | | |
| | | | | | |
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| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

Detail problems, corrective actions and/or other pertinent information below:
*high surr point taked out due to saturation. Surrogate
Curved by 5 points.*

Analyst: *[Signature]* Date: 5/17/12
Reviewer: *[Signature]* Date: 5/17/12

* 8 o-terph

Curve Type: Averaged By-Response
Amt = Rsp/17187.15
%RSD: 4.779



UU52: 01830

MH
5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120515.b/0515a002.d ARI ID: RT
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 15-MAY-2012 07:31
 Operator: MH
 Report Date: 05/16/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|--------|
| Toluene | 1.282 | 0.000 | 295562 | 316220 | GAS (Tol-C12) | 1396580 | 92.83 |
| C8 | 1.486 | 0.000 | 174183 | 290313 | DIESEL (C12-C24) | 1365321 | 100.18 |
| C10 | 3.126 | 0.000 | 173951 | 199448 | M.OIL (C24-C38) | 1682363 | 172.56 |
| C12 | 4.163 | 0.000 | 45637 | 82476 | AK-102 (C10-C25) | 1904166 | 117.59 |
| C14 | 4.921 | 0.000 | 121973 | 205262 | AK-103 (C25-C36) | 1437777 | 185.30 |
| C16 | 5.557 | 0.000 | 152907 | 221149 | | | |
| C18 | 6.142 | 0.000 | 137445 | 194440 | | | |
| C20 | 6.724 | 0.000 | 134574 | 218406 | MIN.OIL (C24-C38) | 1682363 | 125.17 |
| C22 | 7.269 | 0.000 | 175346 | 209778 | | | |
| C24 | 7.782 | 0.000 | 222343 | 211185 | | | |
| C25 | 8.028 | 0.000 | 235062 | 282035 | | | |
| C26 | 8.270 | 0.000 | 153774 | 210833 | | | |
| C28 | 8.726 | 0.000 | 174021 | 211004 | | | |
| C32 | 9.667 | 0.000 | 155009 | 228125 | | | |
| C34 | 10.150 | 0.000 | 165448 | 238060 | CREOSOT (C12-C22) | 1152347 | 313.64 |
| Filter Peak | 10.518 | 0.000 | 62 | 44 | | | |
| C36 | 10.633 | 0.000 | 170232 | 253126 | | | |
| C38 | 11.105 | 0.000 | 154822 | 237343 | | | |
| C40 | 11.558 | 0.000 | 91770 | 127005 | | | |
| o-terph | 6.312 | 0.000 | 553314 | 748577 | JET-A (C10-C18) | 1241884 | 83.67 |
| Triacon Surr | 9.194 | 0.000 | 496233 | 668422 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 748577 | 43.6 | 96.8 |
| Triacontane | 668422 | 39.0 | 86.7 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

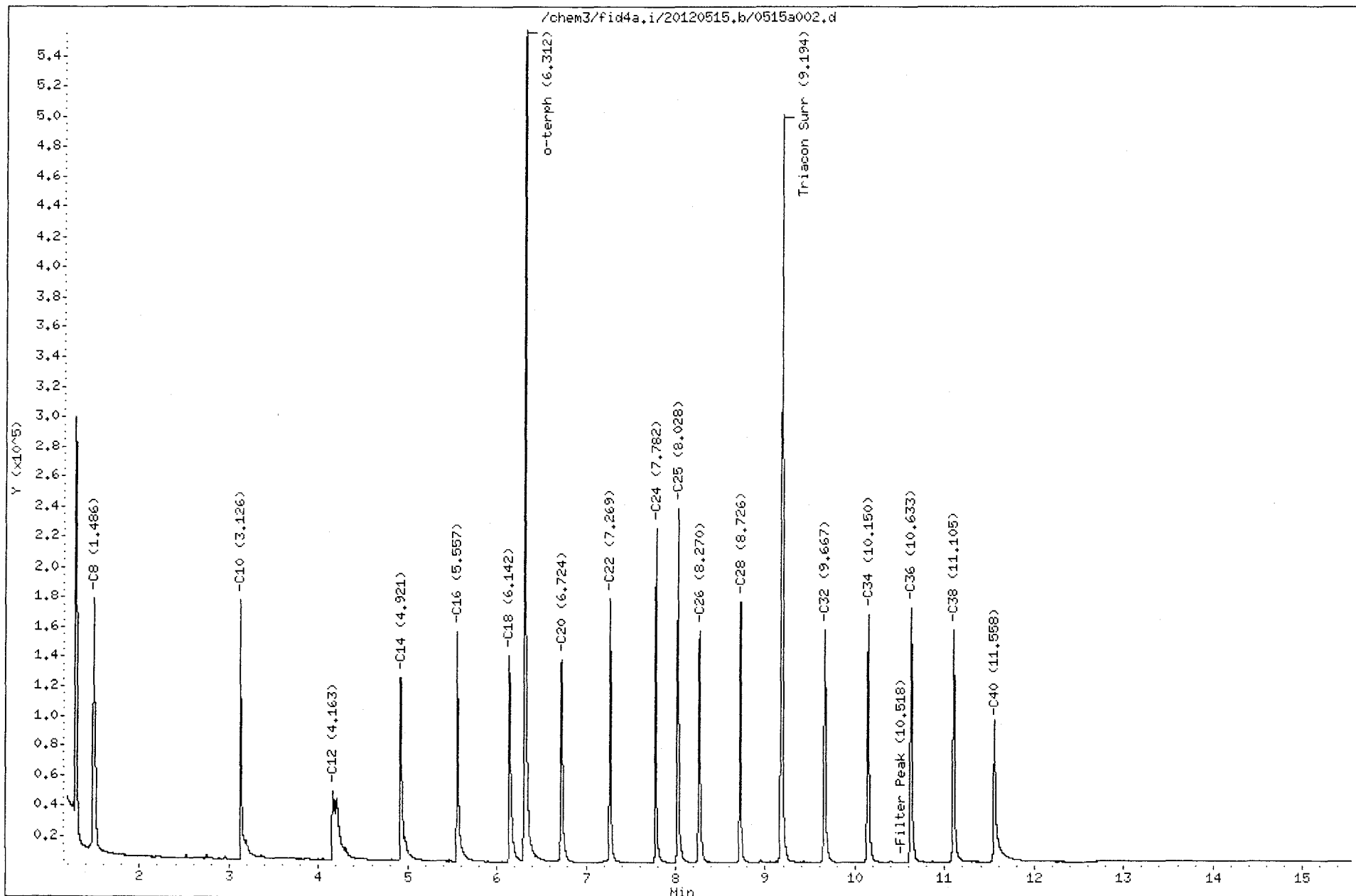
Data File: /chem3/fid4a.i/20120515.b/0515a002.d
Date : 15-MAY-2012 07:31
Client ID:
Sample Info: RT

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



0052:01832

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/16/12

Data file: /chem3/fid4a.i/20120515.b/0515a003.d
Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/16/2012
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: IB
Client ID:
Injection: 15-MAY-2012 07:56
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.264 | -0.018 | 43465 | 98042 | GAS (Tol-C12) | 158567 | 10.54 |
| C8 | 1.531 | 0.045 | 759 | 523 | DIESEL (C12-C24) | 133538 | 9.80 |
| C10 | 3.137 | 0.011 | 378 | 280 | M.OIL (C24-C38) | 91429 | 9.38 |
| C12 | 4.146 | -0.017 | 751 | 1070 | AK-102 (C10-C25) | 173553 | 10.72 |
| C14 | 4.909 | -0.012 | 672 | 923 | AK-103 (C25-C36) | 82054 | 10.57 |
| C16 | 5.556 | -0.001 | 526 | 493 | | | |
| C18 | 6.146 | 0.005 | 368 | 546 | | | |
| C20 | 6.716 | -0.009 | 1521 | 2056 | MIN.OIL (C24-C38) | 91429 | 6.80 |
| C22 | 7.259 | -0.010 | 279 | 539 | | | |
| C24 | 7.782 | 0.000 | 40 | 7 | | | |
| C25 | 8.030 | 0.002 | 122 | 109 | | | |
| C26 | 8.262 | -0.008 | 53 | 23 | | | |
| C28 | 8.717 | -0.008 | 564 | 919 | | | |
| C32 | 9.664 | -0.003 | 1072 | 1572 | | | |
| C34 | 10.145 | -0.005 | 416 | 294 | CREOSOT (C12-C22) | 131561 | 35.81 |
| Filter Peak | 10.521 | 0.004 | 316 | 444 | | | |
| C36 | 10.634 | 0.000 | 314 | 434 | | | |
| C38 | 11.117 | 0.013 | 364 | 481 | | | |
| C40 | 11.554 | -0.004 | 379 | 358 | | | |
| o-terph | 6.310 | -0.001 | 608555 | 795132 | JET-A (C10-C18) | 101104 | 6.81 |
| Triacon Surr | 9.191 | -0.003 | 520959 | 731705 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 795132 | 46.3 | 102.8 |
| Triacontane | 731705 | 42.7 | 94.9 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 15-MAY-2012 07:56

Client ID:

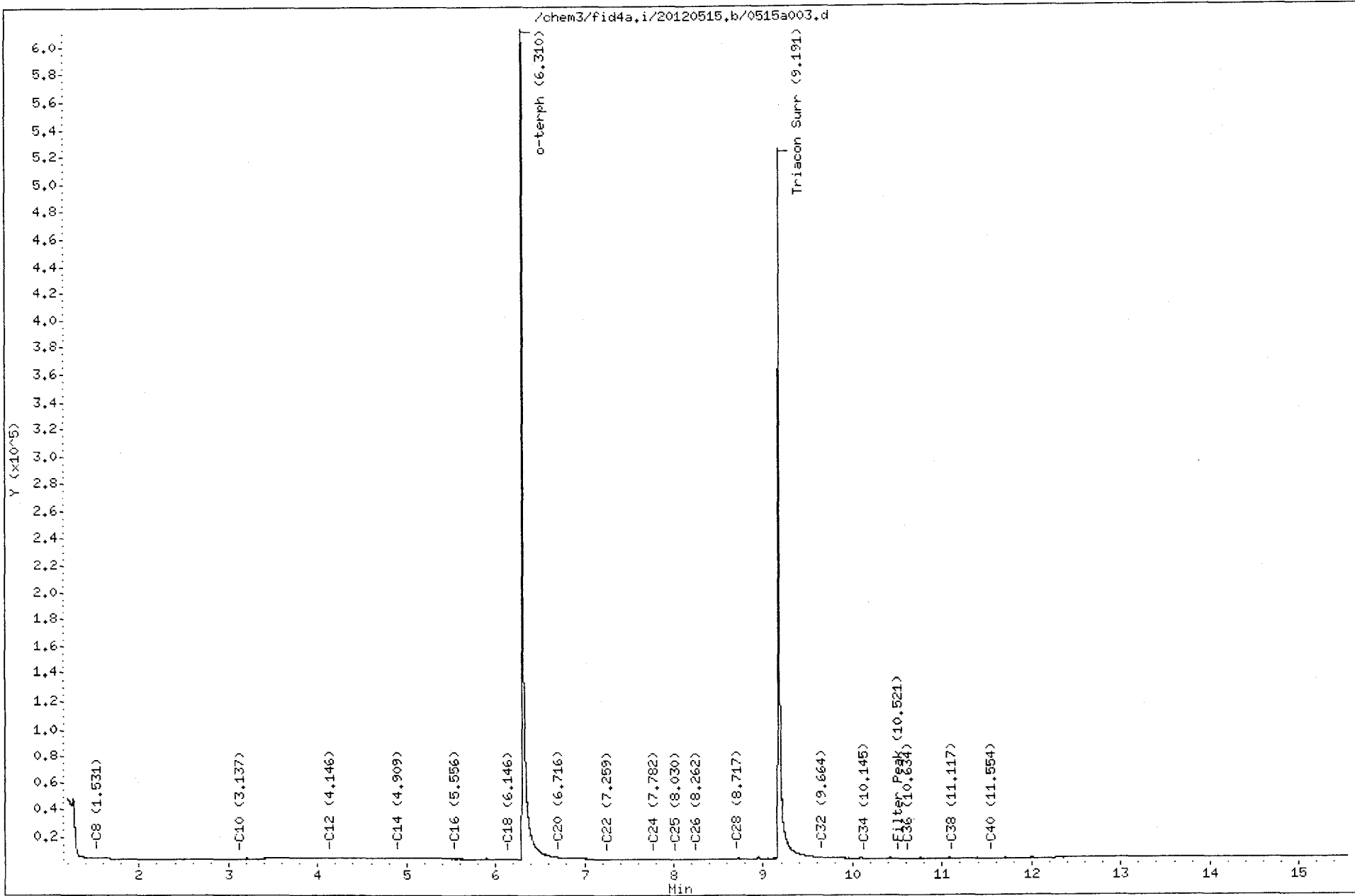
Instrument: fid4a.i

Sample Info: IB

Operator: MH

Column phase: RTX-1

Column diameter: 0.25



0052:01834

MH
5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120515.b/0515a005a.d ARI ID: DIESEL 50
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 15-MAY-2012 11:30
 Operator: MH
 Report Date: 05/16/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.272 | -0.010 | 1416 | 4387 | GAS (Tol-C12) | 141626 | 9.41 |
| C8 | 1.482 | -0.003 | 599 | 1456 | DIESEL (C12-C24) | 651098 | 47.78 |
| C10 | 3.129 | 0.004 | 625 | 793 | M.OIL (C24-C38) | 92907 | 9.53 |
| C12 | 4.153 | -0.009 | 2591 | 5784 | AK-102 (C10-C25) | 751006 | 46.38 |
| C14 | 4.913 | -0.008 | 3548 | 2811 | AK-103 (C25-C36) | 71299 | 9.19 |
| C16 | 5.550 | -0.007 | 4909 | 7015 | | | |
| C18 | 6.127 | -0.015 | 3664 | 4527 | | | |
| C20 | 6.722 | -0.002 | 2684 | 1665 | MIN.OIL (C24-C38) | 92907 | 6.91 |
| C22 | 7.255 | -0.014 | 3021 | 5929 | | | |
| C24 | 7.775 | -0.007 | 770 | 463 | | | |
| C25 | 8.026 | -0.002 | 2022 | 2225 | | | |
| C26 | 8.263 | -0.007 | 362 | 503 | | | |
| C28 | 8.732 | 0.007 | 1675 | 2392 | | | |
| C32 | 9.665 | -0.003 | 284 | 111 | | | |
| C34 | 10.135 | -0.015 | 275 | 316 | CREOSOT (C12-C22) | 622411 | 169.40 |
| Filter Peak | 10.522 | 0.004 | 252 | 244 | | | |
| C36 | 10.625 | -0.008 | 240 | 257 | | | |
| C38 | 11.145 | 0.041 | 309 | 402 | | | |
| C40 | 11.559 | 0.001 | 332 | 268 | | | |
| o-terph | 6.326 | 0.015 | 64679 | 165936 | JET-A (C10-C18) | 561919 | 37.86 |
| Triacon Surr | 9.190 | -0.004 | 294 | 300 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 165936 | 9.7 | 21.5 |
| Triacontane | 300 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 15-MAY-2012 11:30

Client ID:

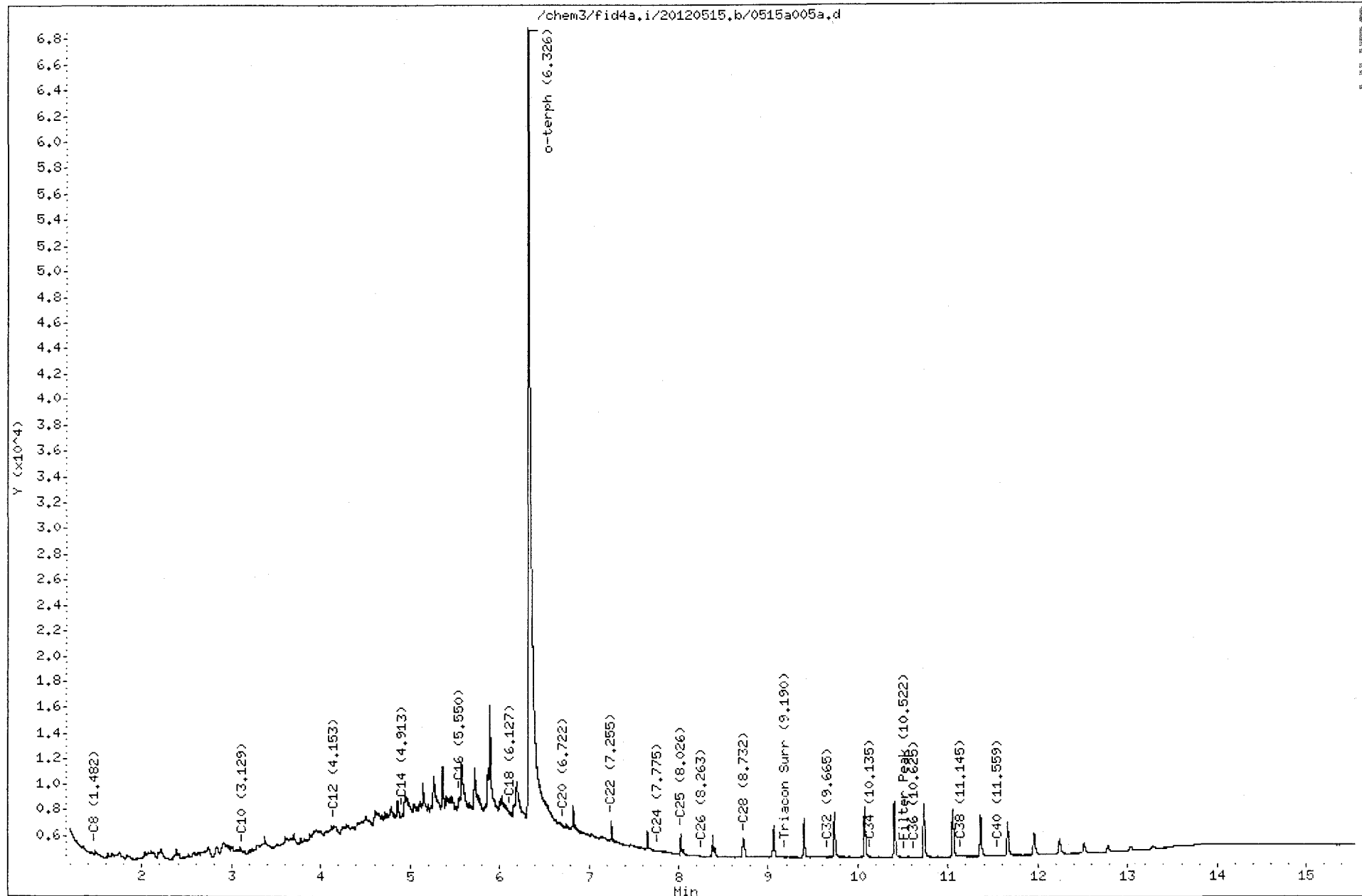
Sample Info: DIESEL 50

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



MH
5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120515.b/0515a005b.d ARI ID: DIESEL 100
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 15-MAY-2012 11:53
 Operator: MH
 Report Date: 05/16/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.287 | 0.005 | 1780 | 3185 | GAS (Tol-C12) | 353140 | 23.47 |
| C8 | 1.497 | 0.012 | 1193 | 2678 | DIESEL (C12-C24) | 1384753 | 101.61 |
| C10 | 3.132 | 0.006 | 1724 | 1784 | M.OIL (C24-C38) | 41006 | 4.21 |
| C12 | 4.185 | 0.022 | 4654 | 3334 | AK-102 (C10-C25) | 1629784 | 100.65 M |
| C14 | 4.918 | -0.003 | 14628 | 22243 | AK-103 (C25-C36) | 30429 | 3.92 |
| C16 | 5.557 | 0.000 | 25842 | 30435 | | | |
| C18 | 6.146 | 0.004 | 14970 | 26890 | | | |
| C20 | 6.729 | 0.005 | 5535 | 7961 | MIN.OIL (C24-C38) | 41006 | 3.05 |
| C22 | 7.273 | 0.004 | 2774 | 876 | | | |
| C24 | 7.771 | -0.011 | 1301 | 891 | | | |
| C25 | 8.030 | 0.002 | 813 | 1281 | | | |
| C26 | 8.286 | 0.016 | 458 | 382 | | | |
| C28 | 8.716 | -0.010 | 275 | 401 | | | |
| C32 | 9.673 | 0.005 | 42 | 33 | | | |
| C34 | 10.143 | -0.007 | 45 | 44 | CREOSOT (C12-C22) | 1341025 | 364.99 M |
| Filter Peak | 10.532 | 0.014 | 38 | 21 | | | |
| C36 | 10.624 | -0.010 | 37 | 25 | | | |
| C38 | 11.070 | -0.035 | 804 | 1531 | | | |
| C40 | 11.559 | 0.001 | 121 | 150 | | | |
| o-terph | 6.313 | 0.002 | 200734 | 293398 | JET-A (C10-C18) | 1248071 | 84.09 |
| Triacon Surr | 9.193 | -0.001 | 93 | 106 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 293398 | 17.1 | 37.9 |
| Triacontane | 106 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120515.b/0515a005b.d

Date : 15-MAY-2012 11:53

Client ID:

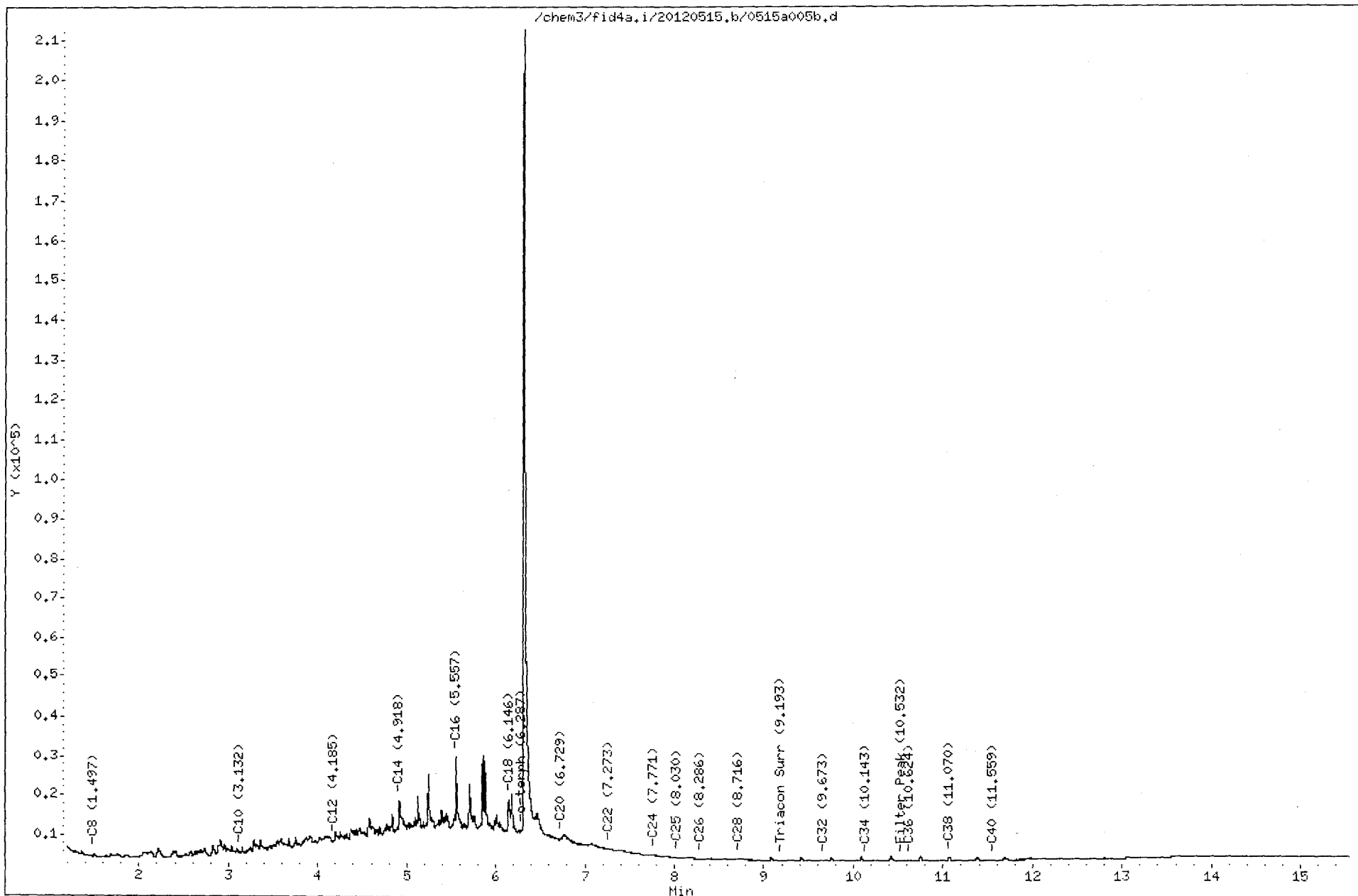
Instrument: fid4a.i

Sample Info: DIESEL 100

Operator: MH

Column phase: RTX-1

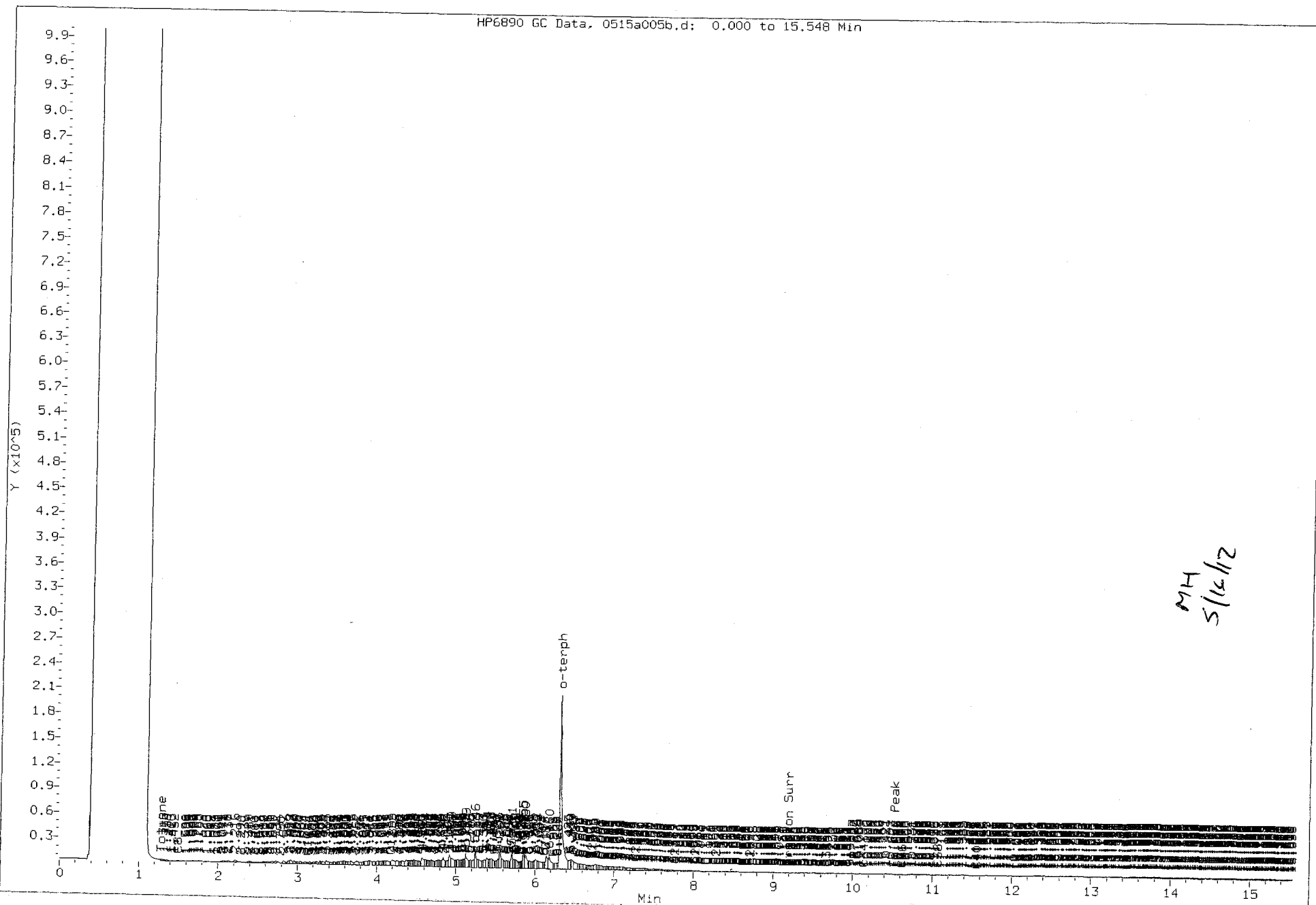
Column diameter: 0.25



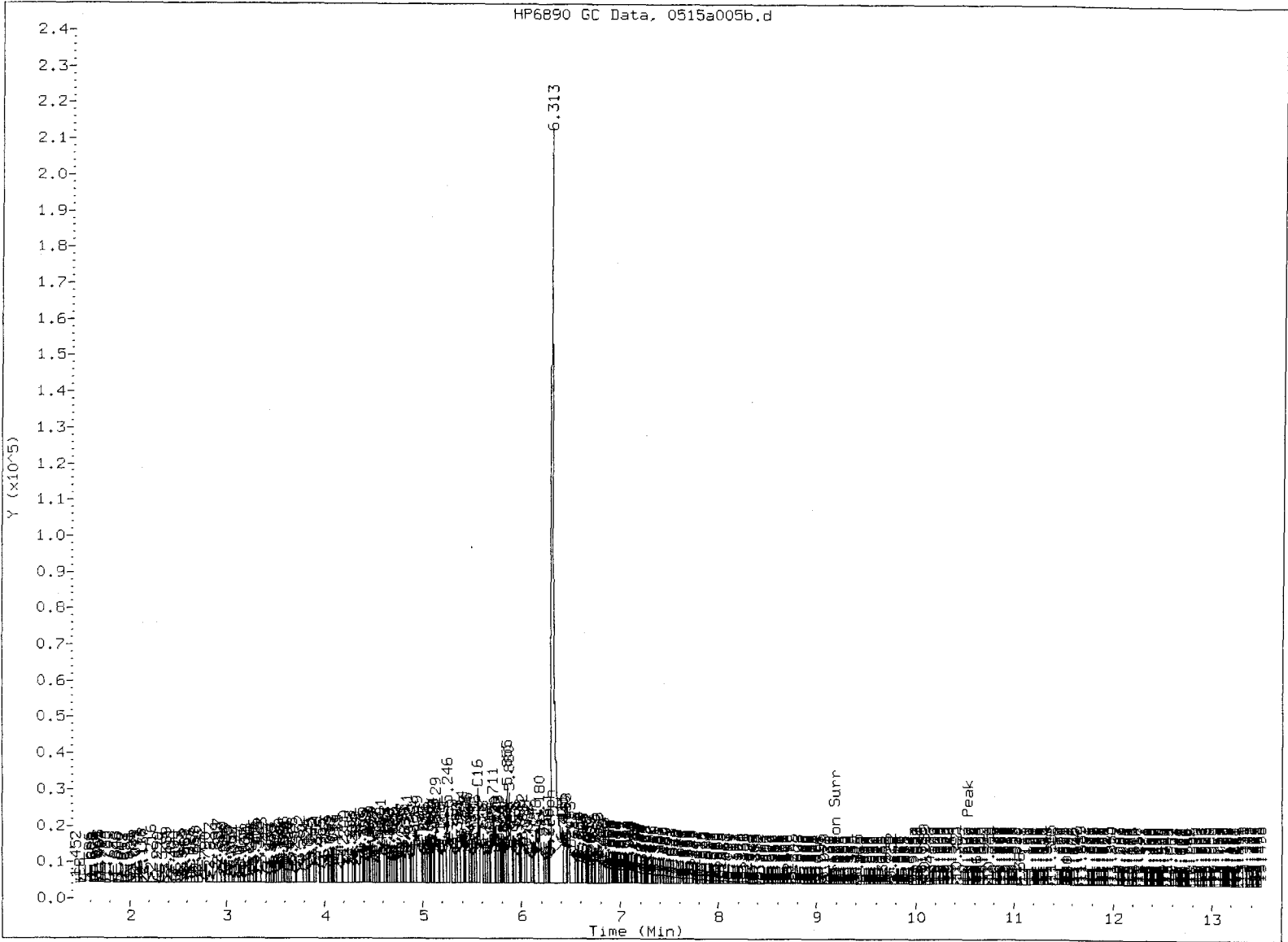
W52:01838

Data File: /chem3/fid4a.1/20120515.b/0515a005b.d
Injection Date: 15-MAY-2012 11:53
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0515a005b.d: 0.000 to 15.548 Min



UUS2:01839



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/16/12

Data file: /chem3/fid4a.i/20120515.b/0515a005c.d ARI ID: DIESEL 250
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 15-MAY-2012 12:17
 Operator: MH
 Report Date: 05/16/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.292 | 0.010 | 2785 | 3551 | GAS (Tol-C12) | 911902 | 60.62 |
| C8 | 1.502 | 0.016 | 2410 | 3872 | DIESEL (C12-C24) | 3514900 | 257.92 |
| C10 | 3.119 | -0.007 | 4648 | 4831 | M.OIL (C24-C38) | 78924 | 8.10 |
| C12 | 4.162 | 0.000 | 22264 | 39052 | AK-102 (C10-C25) | 4165121 | 257.22 M |
| C14 | 4.937 | 0.016 | 24594 | 31946 | AK-103 (C25-C36) | 58766 | 7.57 |
| C16 | 5.548 | -0.009 | 91391 | 105637 | | | |
| C18 | 6.138 | -0.004 | 63047 | 79208 | | | |
| C20 | 6.725 | 0.001 | 26692 | 83466 | MIN.OIL (C24-C38) | 78924 | 5.87 |
| C22 | 7.265 | -0.004 | 6207 | 5660 | | | |
| C24 | 7.784 | 0.003 | 2588 | 4167 | | | |
| C25 | 8.021 | -0.007 | 1706 | 1343 | | | |
| C26 | 8.242 | -0.028 | 1090 | 3277 | | | |
| C28 | 8.737 | 0.011 | 980 | 2120 | | | |
| C32 | 9.670 | 0.002 | 127 | 294 | | | |
| C34 | 10.150 | 0.000 | 61 | 39 | CREOSOT (C12-C22) | 3403966 | 926.46 M |
| Filter Peak | 10.513 | -0.005 | 34 | 29 | | | |
| C36 | 10.630 | -0.003 | 30 | 9 | | | |
| C38 | 11.130 | 0.026 | 64 | 26 | | | |
| C40 | 11.574 | 0.016 | 90 | 209 | | | |
| o-terph | 6.311 | 0.000 | 706633 | 748623 | JET-A (C10-C18) | 3180606 | 214.30 |
| Triacon Surr | 9.191 | -0.002 | 201 | 312 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 748623 | 43.6 | 96.8 |
| Triacontane | 312 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120515.b/0515a005c.d

Date : 15-MAY-2012 12:17

Client ID:

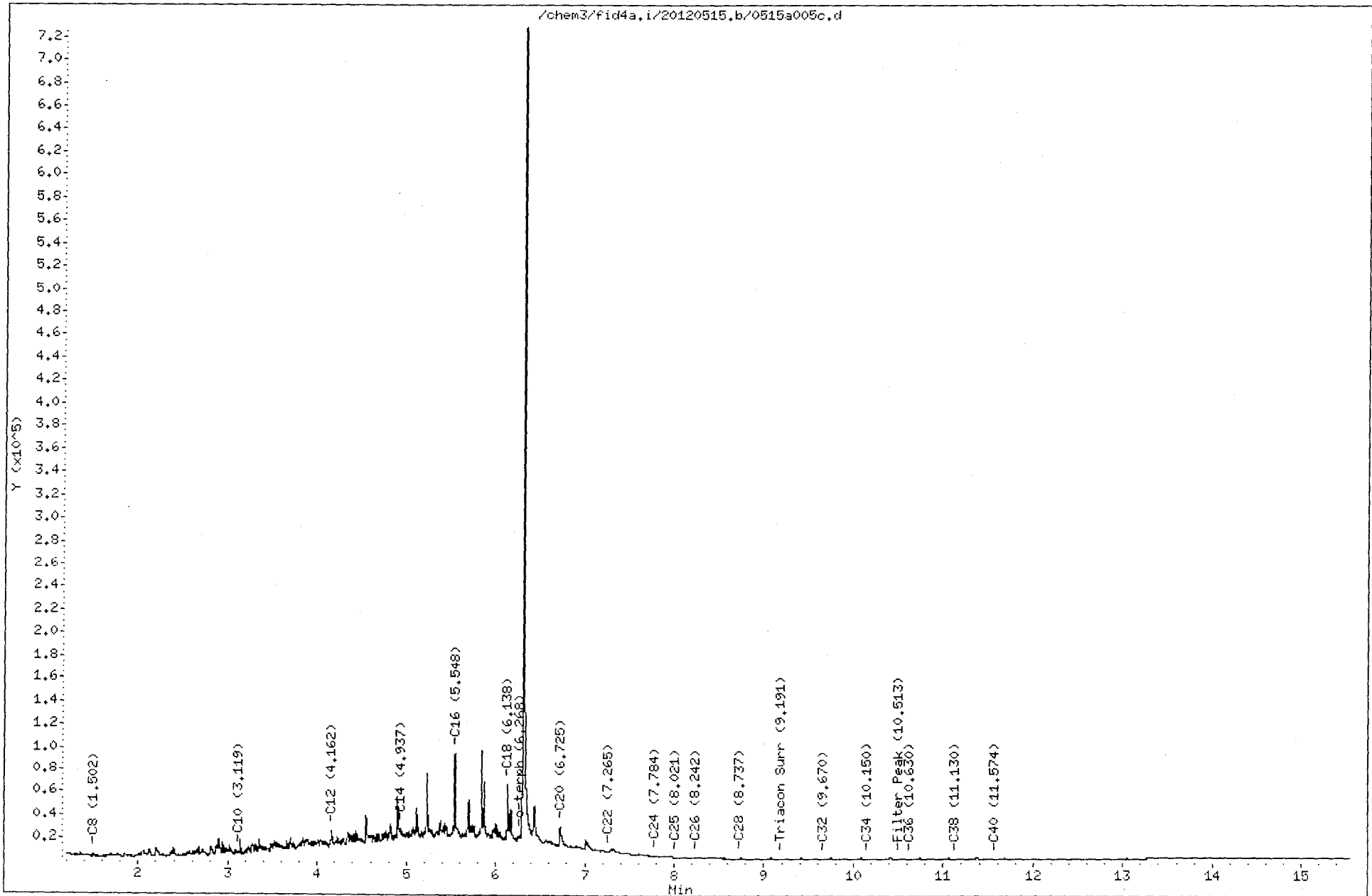
Instrument: fid4a.i

Sample Info: DIESEL 250

Operator: MH

Column phase: RTX-1

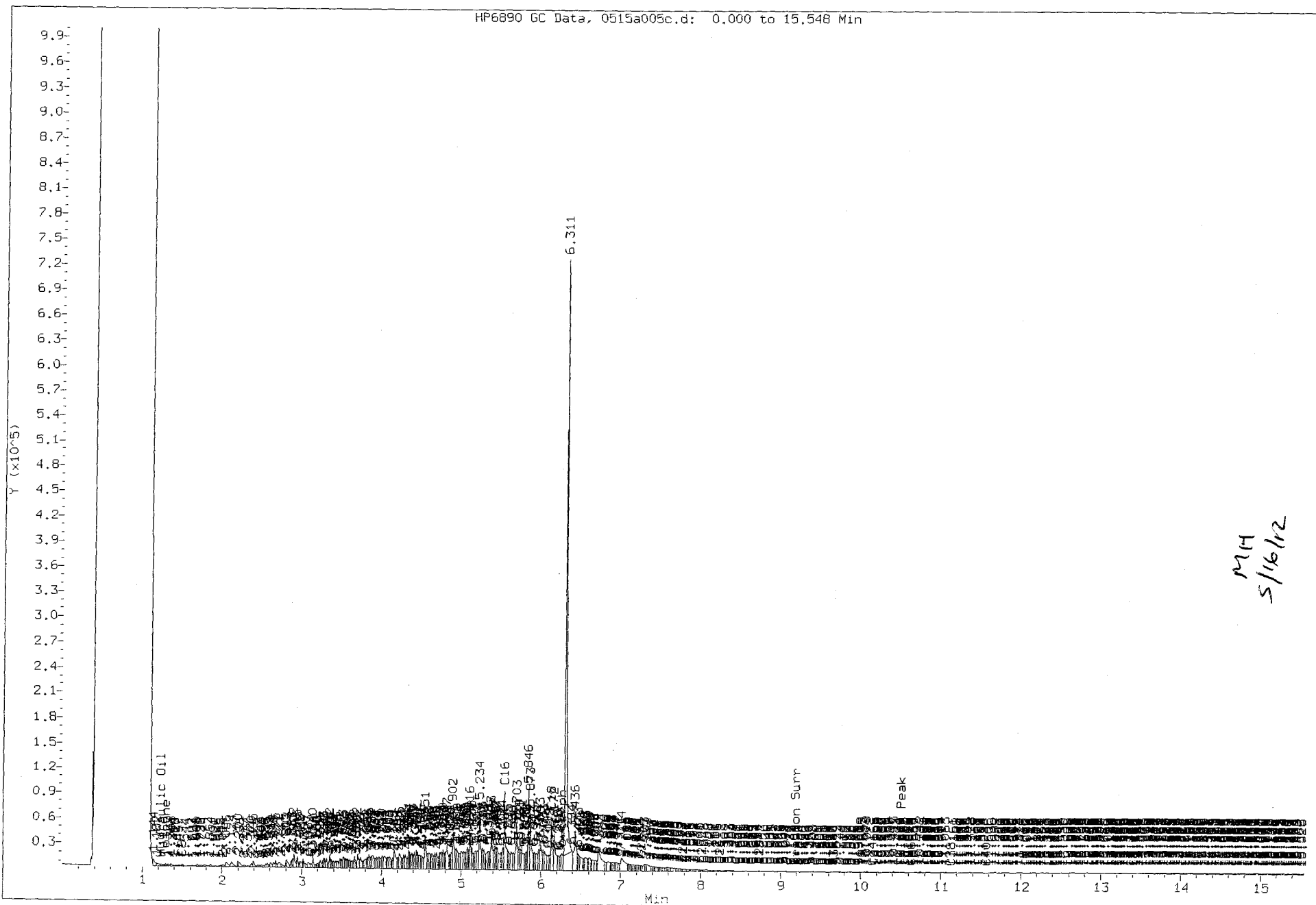
Column diameter: 0.25



UU52:01842

Data File: /chem3/fid4a.i/20120515.b/0515a005c.d
Injection Date: 15-MAY-2012 12:17
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0515a005c.d: 0.000 to 15.548 Min



MM
5/16/12

UUS2:01843

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/16/12

Data file: /chem3/fid4a.i/20120515.b/0515a005d.d ARI ID: DIESEL 500
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 15-MAY-2012 12:41
 Operator: MH
 Report Date: 05/16/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.306 | 0.024 | 4576 | 4514 | GAS (Tol-C12) | 1943508 | 129.19 |
| C8 | 1.469 | -0.017 | 1808 | 2574 | DIESEL (C12-C24) | 6897445 | 506.12 |
| C10 | 3.131 | 0.005 | 35766 | 32301 | M.OIL (C24-C38) | 120345 | 12.34 |
| C12 | 4.142 | -0.021 | 61151 | 94618 | AK-102 (C10-C25) | 8278657 | 511.25 M |
| C14 | 4.931 | 0.010 | 47488 | 57085 | AK-103 (C25-C36) | 88377 | 11.39 |
| C16 | 5.544 | -0.013 | 197723 | 179840 | | | |
| C18 | 6.137 | -0.005 | 157925 | 165573 | | | |
| C20 | 6.716 | -0.008 | 78488 | 152306 | MIN.OIL (C24-C38) | 120345 | 8.95 |
| C22 | 7.280 | 0.012 | 21509 | 69131 | | | |
| C24 | 7.794 | 0.013 | 4270 | 2025 | | | |
| C25 | 8.028 | 0.000 | 2774 | 2352 | | | |
| C26 | 8.271 | 0.001 | 1752 | 2362 | | | |
| C28 | 8.713 | -0.013 | 767 | 450 | | | |
| C32 | 9.677 | 0.010 | 205 | 115 | | | |
| C34 | 10.152 | 0.002 | 78 | 91 | CREOSOT (C12-C22) | 6738327 | 1833.98 M |
| Filter Peak | 10.520 | 0.002 | 35 | 45 | | | |
| C36 | 10.633 | 0.000 | 25 | 8 | | | |
| C38 | 11.114 | 0.009 | 61 | 34 | | | |
| C40 | 11.557 | -0.001 | 59 | 44 | | | |
| o-terph | 6.322 | 0.010 | 1448465 | 1544870 | JET-A (C10-C18) | 6422421 | 432.72 |
| Triacon Surr | 9.205 | 0.011 | 319 | 147 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1544870 | 89.9 | 199.7 |
| Triacontane | 147 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120515.b/0515a005d.d

Date : 15-MAY-2012 12:41

Client ID:

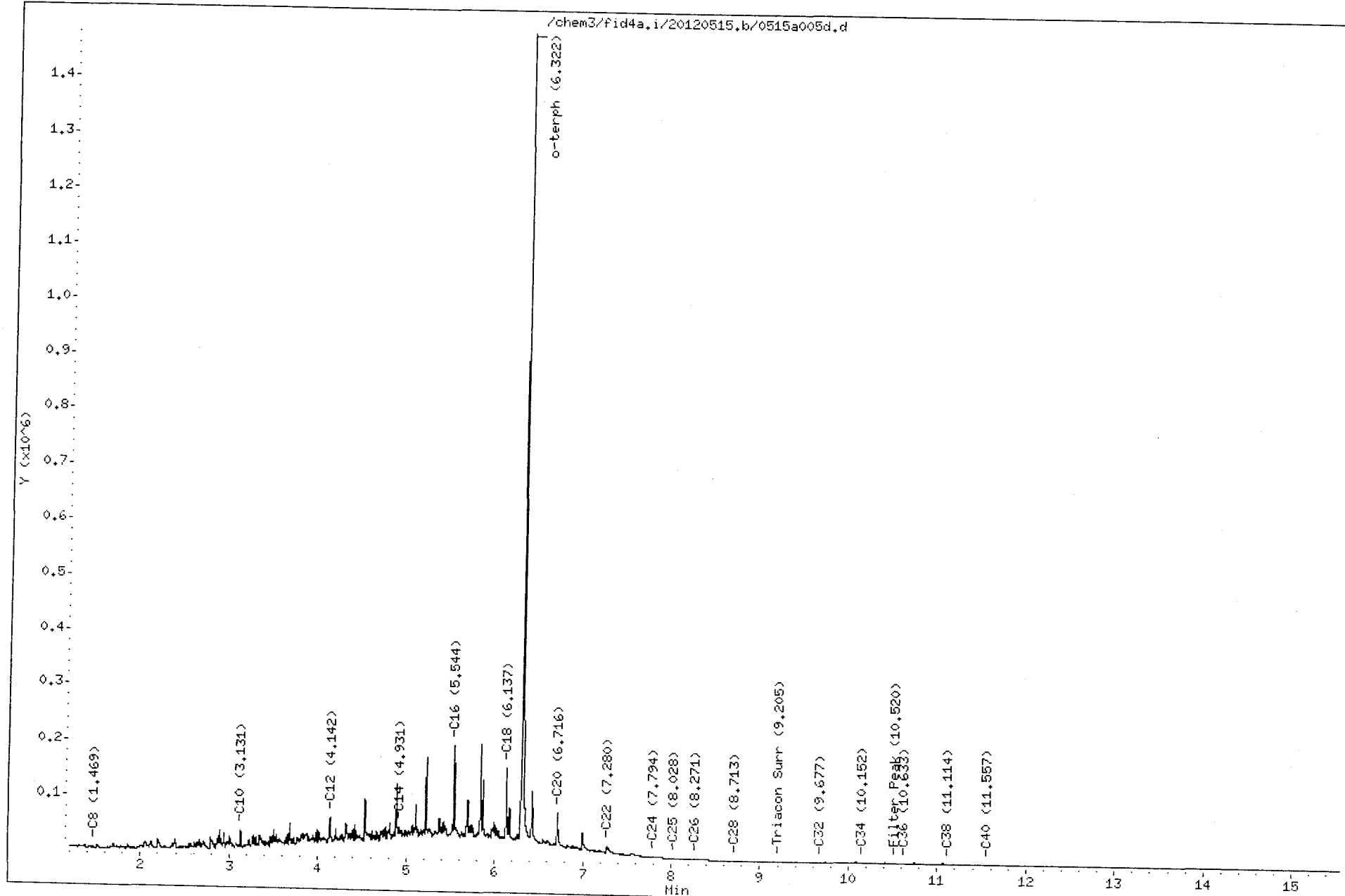
Sample Info: DIESEL 500

Instrument: fid4a.i

Operator: HH

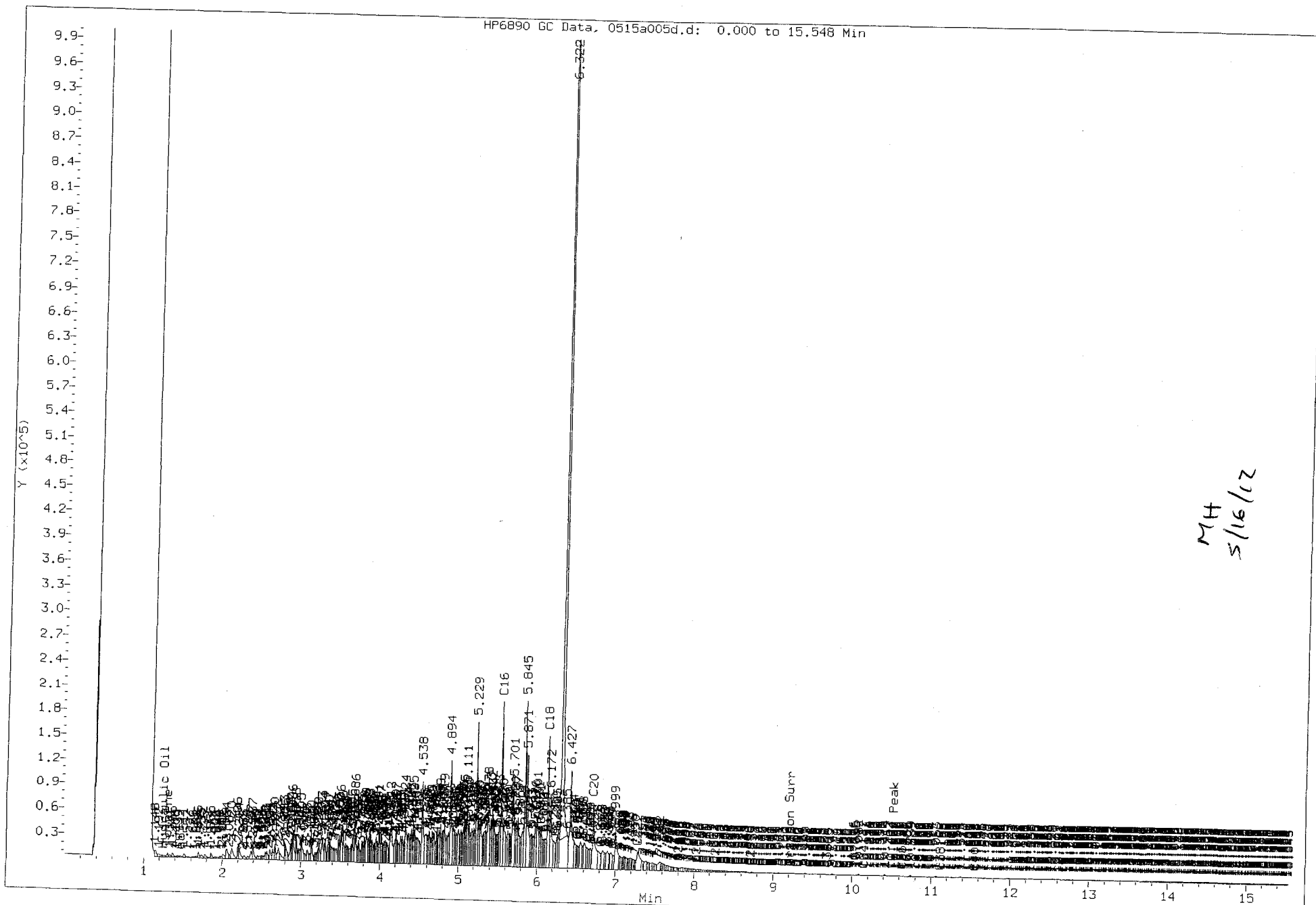
Column diameter: 0.25

Column phase: RTX-1



0052:01846

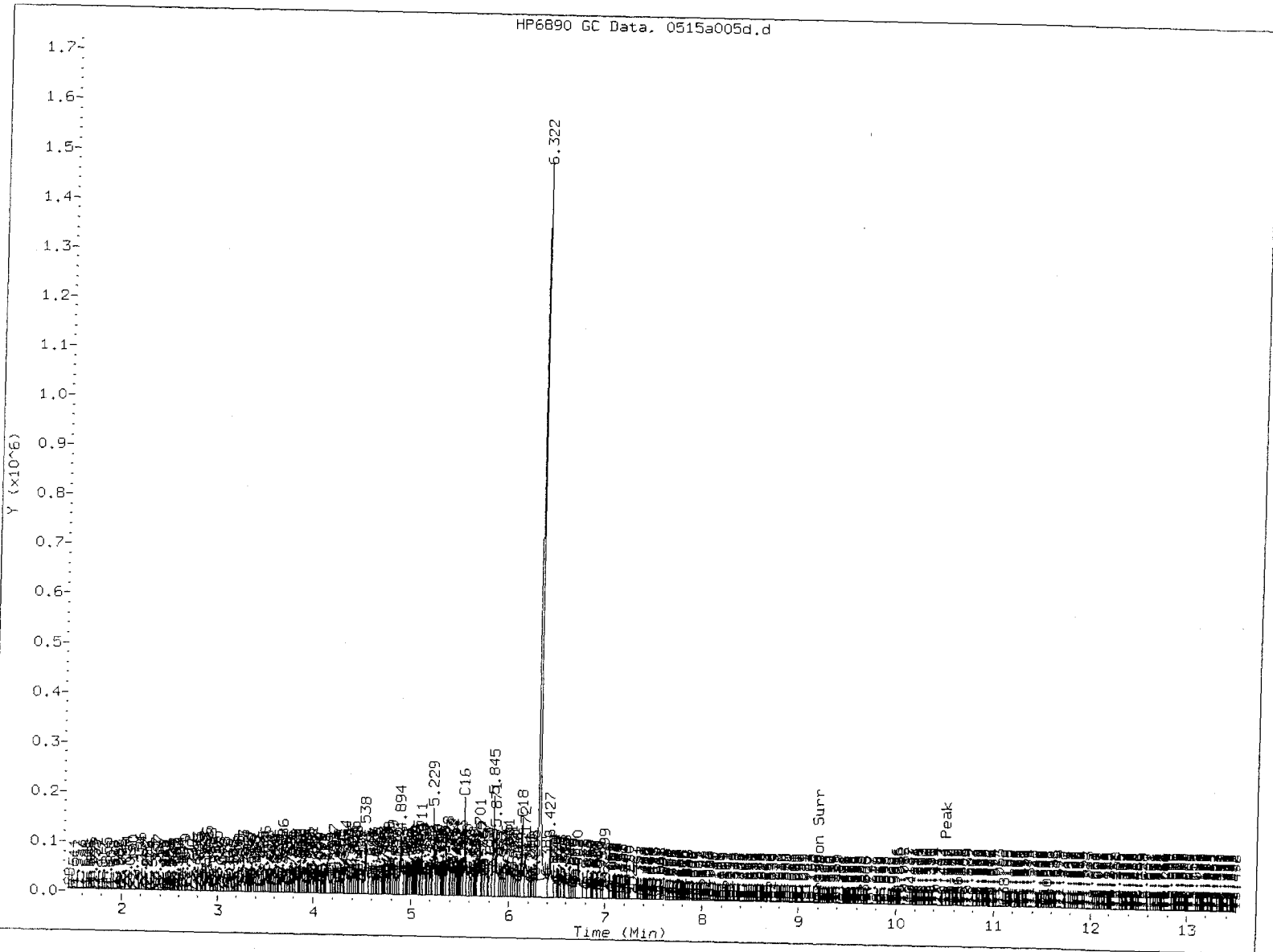
Data File: /chem3/fid4a.i/20120515.b/0515a005d.d
Injection Date: 15-MAY-2012 12:41
Instrument: fid4a.i
Client Sample ID:



MH
5/16/12

0515a005d.d

HP6890 GC Data, 0515a005d.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MA Date: 5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/16/12

Data file: /chem3/fid4a.i/20120515.b/0515a005e.d
Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/16/2012
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: DIESEL 1000
Client ID:
Injection: 15-MAY-2012 13:05
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.268 | -0.014 | 2024 | 5239 | GAS (Tol-C12) | 3888585 | 258.48 |
| C8 | 1.487 | 0.001 | 3050 | 4129 | DIESEL (C12-C24) | 13350940 | 979.67 |
| C10 | 3.128 | 0.002 | 83610 | 67320 | M.OIL (C24-C38) | 181233 | 18.59 |
| C12 | 4.185 | 0.022 | 58359 | 52153 | AK-102 (C10-C25) | 16082648 | 993.19 M |
| C14 | 4.929 | 0.008 | 89945 | 127719 | AK-103 (C25-C36) | 142739 | 18.40 |
| C16 | 5.544 | -0.013 | 418248 | 343802 | | | |
| C18 | 6.138 | -0.003 | 323122 | 325580 | | | |
| C20 | 6.715 | -0.009 | 186437 | 267047 | MIN.OIL (C24-C38) | 181233 | 13.48 |
| C22 | 7.265 | -0.003 | 63234 | 175706 | | | |
| C24 | 7.790 | 0.008 | 7626 | 3964 | | | |
| C25 | 8.027 | -0.001 | 4429 | 1581 | | | |
| C26 | 8.266 | -0.004 | 2736 | 3408 | | | |
| C28 | 8.737 | 0.011 | 1628 | 4219 | | | |
| C32 | 9.657 | -0.010 | 325 | 405 | | | |
| C34 | 10.132 | -0.018 | 126 | 191 | CREOSOT (C12-C22) | 13002672 | 3538.96 M |
| Filter Peak | 10.525 | 0.007 | 57 | 24 | | | |
| C36 | 10.642 | 0.008 | 41 | 23 | | | |
| C38 | 11.118 | 0.013 | 56 | 30 | | | |
| C40 | 11.565 | 0.007 | 54 | 88 | | | |
| o-terph | 6.335 | 0.023 | 2243779 | 3131504 | JET-A (C10-C18) | 12522503 | 843.72 |
| Triacon Surr | 9.179 | -0.014 | 492 | 893 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel (4.163 - 7.782) AK102 (3.13 - 8.03) Jet A (3.13 - 6.14)
NW M.Oil (7.78 - 11.10) AK103 (8.03 - 10.63) OR Diesel (3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3131504 | 182.2 | 404.9 |
| Triacantane | 893 | 0.1 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 15-MAY-2012 13:05

Client ID:

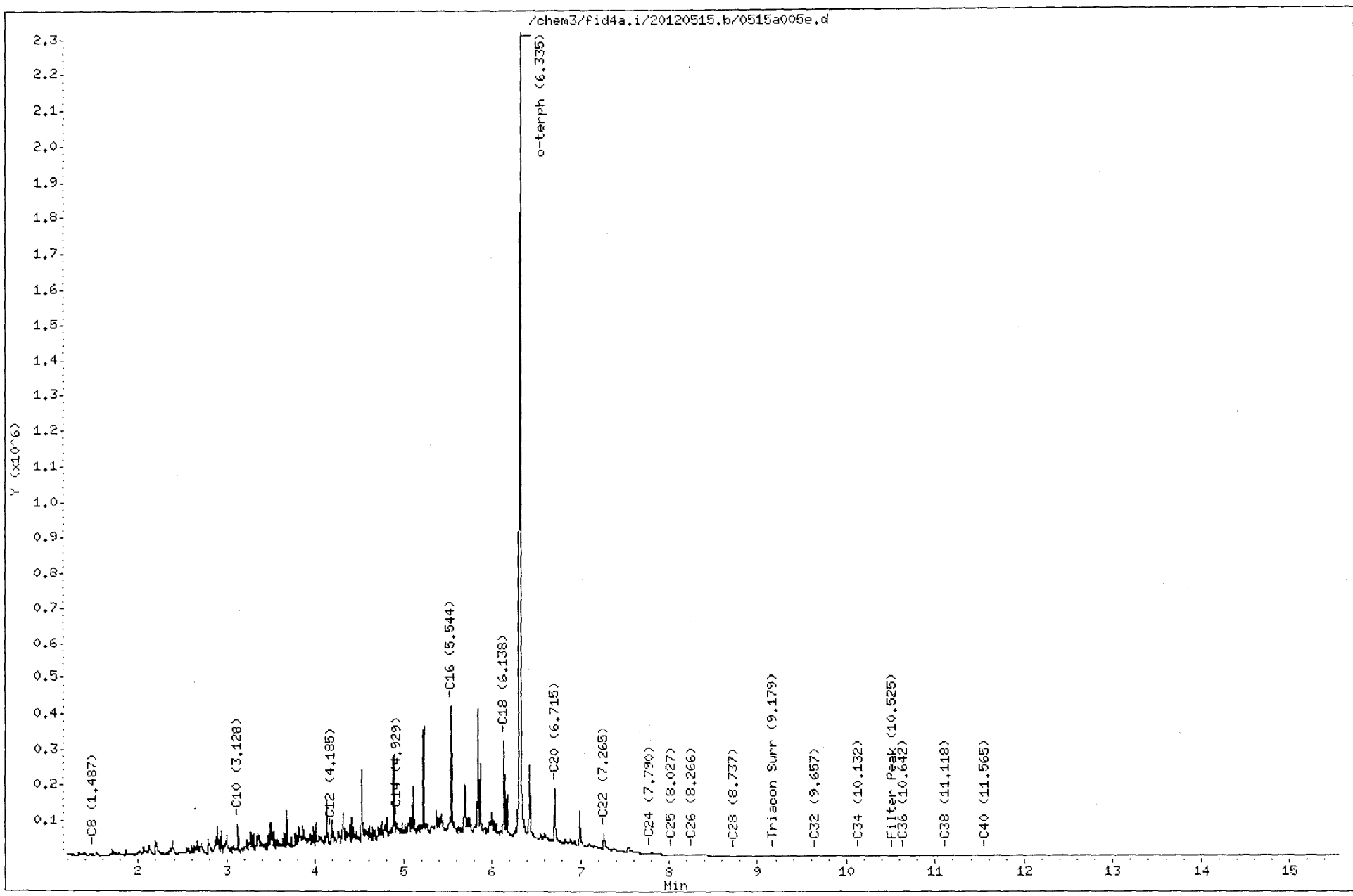
Sample Info: DIESEL 1000

Instrument: fid4a.i

Operator: MH

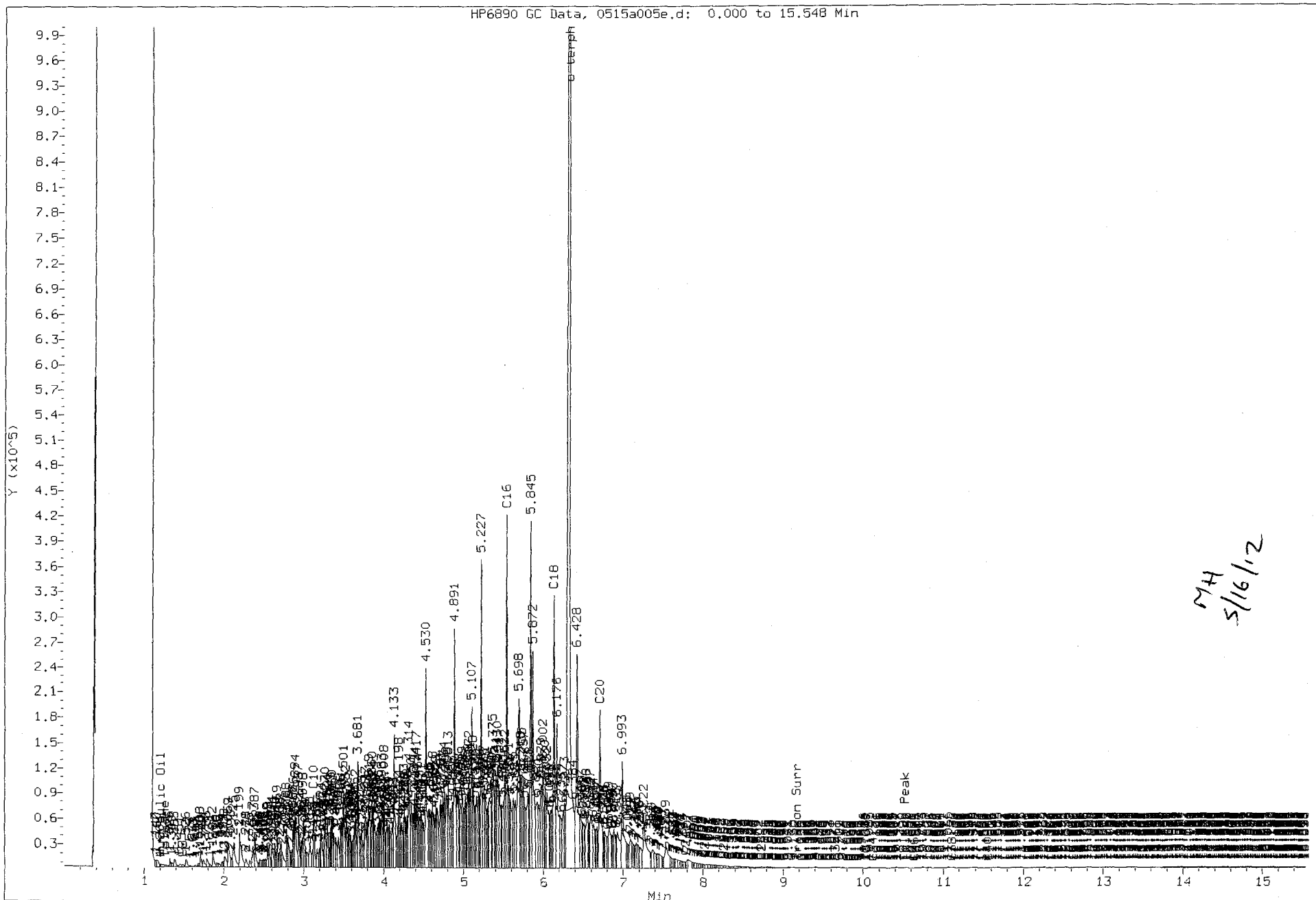
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Column phase: RTX-1



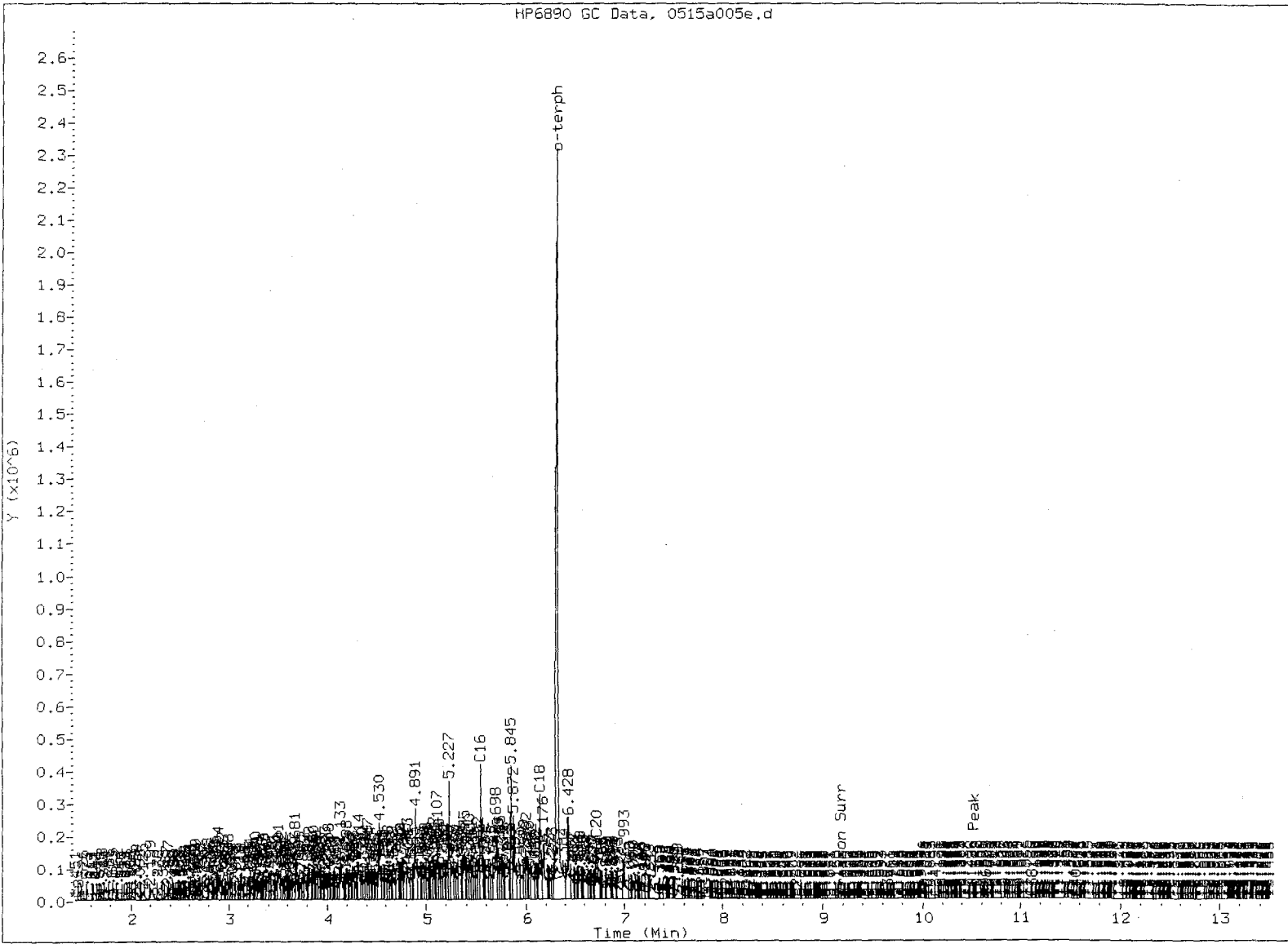
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Data File: /chem3/fid4a.1/20120515.b/0515a005e.d
Injection Date: 15-MAY-2012 13:05
Instrument: fid4a.1
Client Sample ID:



U552:01851

HP6890 GC Data, 0515a005e.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/16/12

MH
5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120515.b/0515a006.d
 Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m
 Instrument: fid4a.i
 Operator: MH
 Report Date: 05/16/2012
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: DIESEL 2500
 Client ID:
 Injection: 15-MAY-2012 13:29
 Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.292 | 0.010 | 2488 | 2731 | GAS (Tol-C12) | 10109817 | 672.02 |
| C8 | 1.489 | 0.003 | 6657 | 4794 | DIESEL (C12-C24) | 34235404 | 2512.14 |
| C10 | 3.133 | 0.007 | 222967 | 182366 | M.OIL (C24-C38) | 362187 | 37.15 |
| C12 | 4.163 | 0.000 | 88963 | 55182 | AK-102 (C10-C25) | 41349395 | 2553.54 M |
| C14 | 4.929 | 0.008 | 219226 | 459951 | AK-103 (C25-C36) | 259218 | 33.41 |
| C16 | 5.552 | -0.005 | 908389 | 930155 | | | |
| C18 | 6.152 | 0.010 | 646206 | 840739 | | | |
| C20 | 6.726 | 0.001 | 457150 | 795222 | MIN.OIL (C24-C38) | 362187 | 26.95 |
| C22 | 7.271 | 0.002 | 215354 | 387158 | | | |
| C24 | 7.787 | 0.005 | 37695 | 105686 | | | |
| C25 | 8.045 | 0.017 | 13593 | 32742 | | | |
| C26 | 8.270 | 0.000 | 5135 | 2115 | | | |
| C28 | 8.731 | 0.005 | 2480 | 7009 | | | |
| C32 | 9.665 | -0.002 | 424 | 325 | | | |
| C34 | 10.147 | -0.003 | 191 | 121 | CREOSOT (C12-C22) | 33230776 | 9044.47 M |
| Filter Peak | 10.510 | -0.008 | 102 | 65 | | | |
| C36 | 10.644 | 0.011 | 70 | 64 | | | |
| C38 | 11.117 | 0.012 | 46 | 44 | | | |
| C40 | 11.562 | 0.005 | 26 | 7 | | | |
| o-terph | 6.366 | 0.054 | 3885408 | 8382575 | JET-A (C10-C18) | 31989886 | 2155.36 |
| Triacon Surr | 9.189 | -0.005 | 724 | 942 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|--------|
| o-Terphenyl | 8382575 | 487.7 | 1083.8 |
| Triacontane | 942 | 0.1 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120515.b/0515a006.d

Date : 15-MAY-2012 13:29

Client ID:

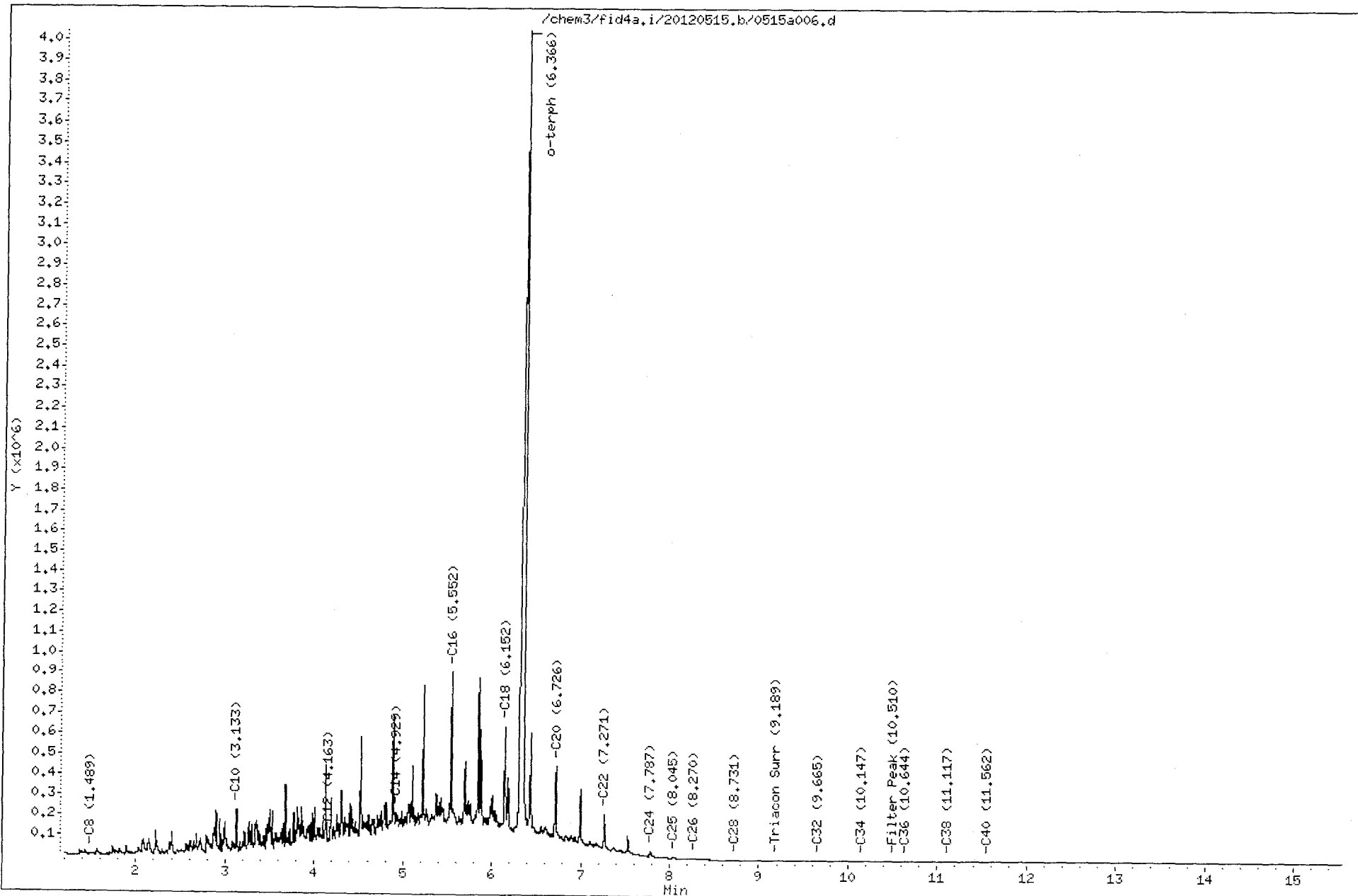
Sample Info: DIESEL 2500

Instrument: fid4a.i

Operator: MH

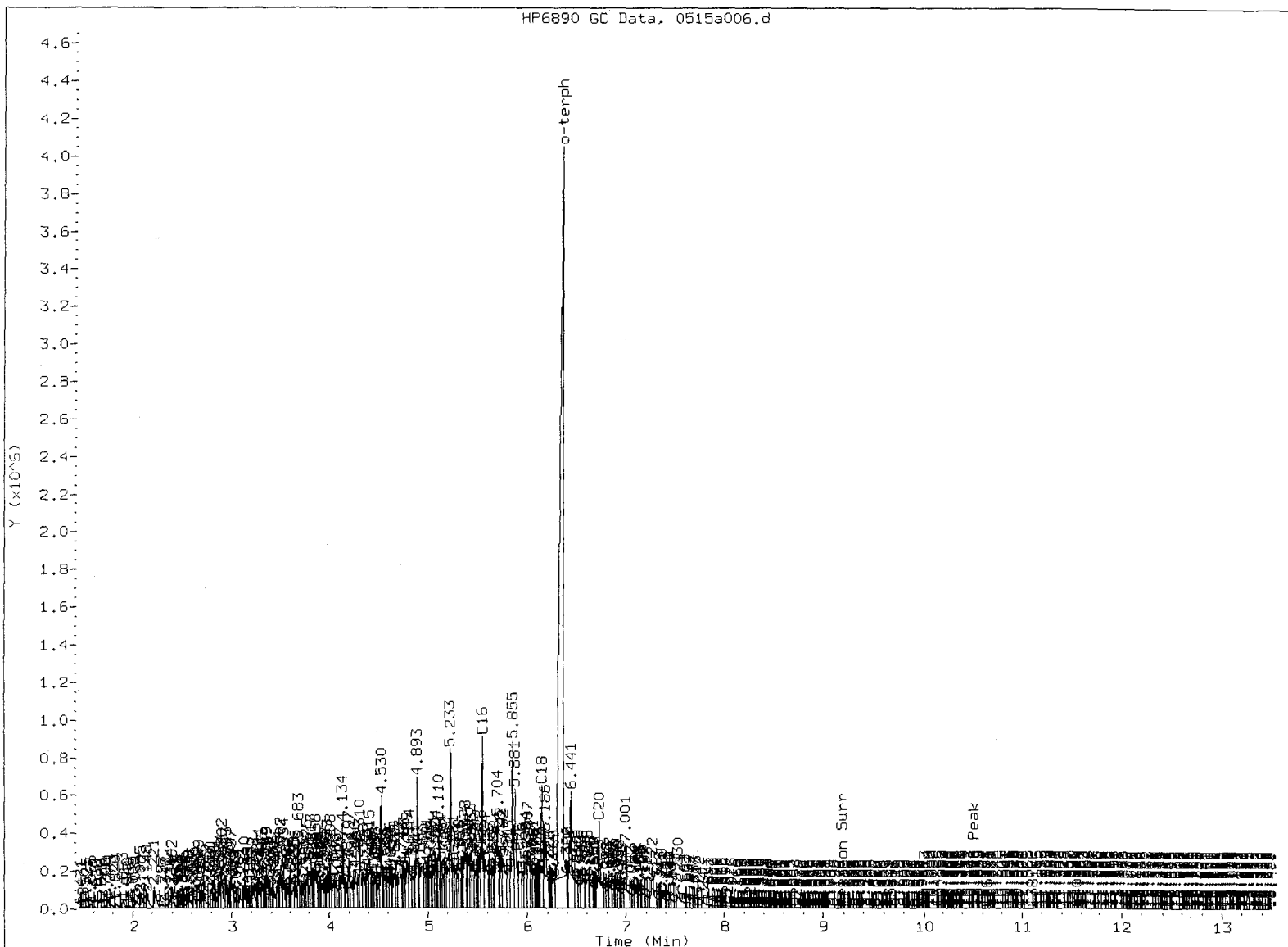
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Column phase: RTX-1



0052:01854

HP6890 GC Data, 0515a006.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/16/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/17/12

Data file: /chem3/fid4a.i/20120516.b/0516a029.d ARI ID: DIESEL ICV
 Method: /chem3/fid4a.i/20120516.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 16-MAY-2012 18:42
 Operator: MH
 Report Date: 05/17/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.292 | 0.025 | 3120 | 4631 | GAS (Tol-C12) | 1004908 | 66.80 |
| C8 | 1.456 | -0.018 | 1500 | 2080 | DIESEL (C12-C24) | 2769048 | 203.19 |
| C10 | 3.137 | 0.014 | 26075 | 29019 | M.OIL (C24-C38) | 65672 | 6.74 |
| C12 | 4.142 | -0.009 | 14731 | 19328 | AK-102 (C10-C25) | 3544119 | 218.87 M |
| C14 | 4.910 | -0.013 | 41137 | 92662 | AK-103 (C25-C36) | 45532 | 5.87 |
| C16 | 5.554 | -0.007 | 49229 | 56359 | | | |
| C18 | 6.139 | -0.003 | 33720 | 47733 | | | |
| C20 | 6.728 | 0.004 | 16480 | 52809 | MIN.OIL (C24-C38) | 65672 | 4.89 |
| C22 | 7.270 | 0.001 | 4835 | 1883 | | | |
| C24 | 7.768 | -0.012 | 2253 | 3088 | | | |
| C25 | 8.025 | -0.002 | 1499 | 2380 | | | |
| C26 | 8.265 | -0.001 | 988 | 947 | | | |
| C28 | 8.724 | 0.001 | 603 | 1609 | | | |
| C32 | 9.668 | 0.003 | 73 | 37 | | | |
| C34 | 10.147 | 0.000 | 34 | 16 | CREOSOT (C12-C22) | 2697742 | 734.25 M |
| Filter Peak | 10.504 | -0.009 | 38 | 35 | | | |
| C36 | 10.619 | -0.004 | 44 | 22 | | | |
| C38 | 11.117 | 0.023 | 103 | 250 | | | |
| C40 | 11.565 | 0.006 | 190 | 227 | | | |
| o-terph | 6.312 | -0.001 | 571818 | 693660 | JET-A (C10-C18) | 2772533 | 186.80 |
| Triacon Surr | 9.192 | -0.001 | 137 | 100 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.151 - 7.780) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.09) AK103(8.03 - 10.62) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 693660 | 40.4 | 89.7 |
| Triacontane | 100 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 16-MAY-2012 18:42

Client ID:

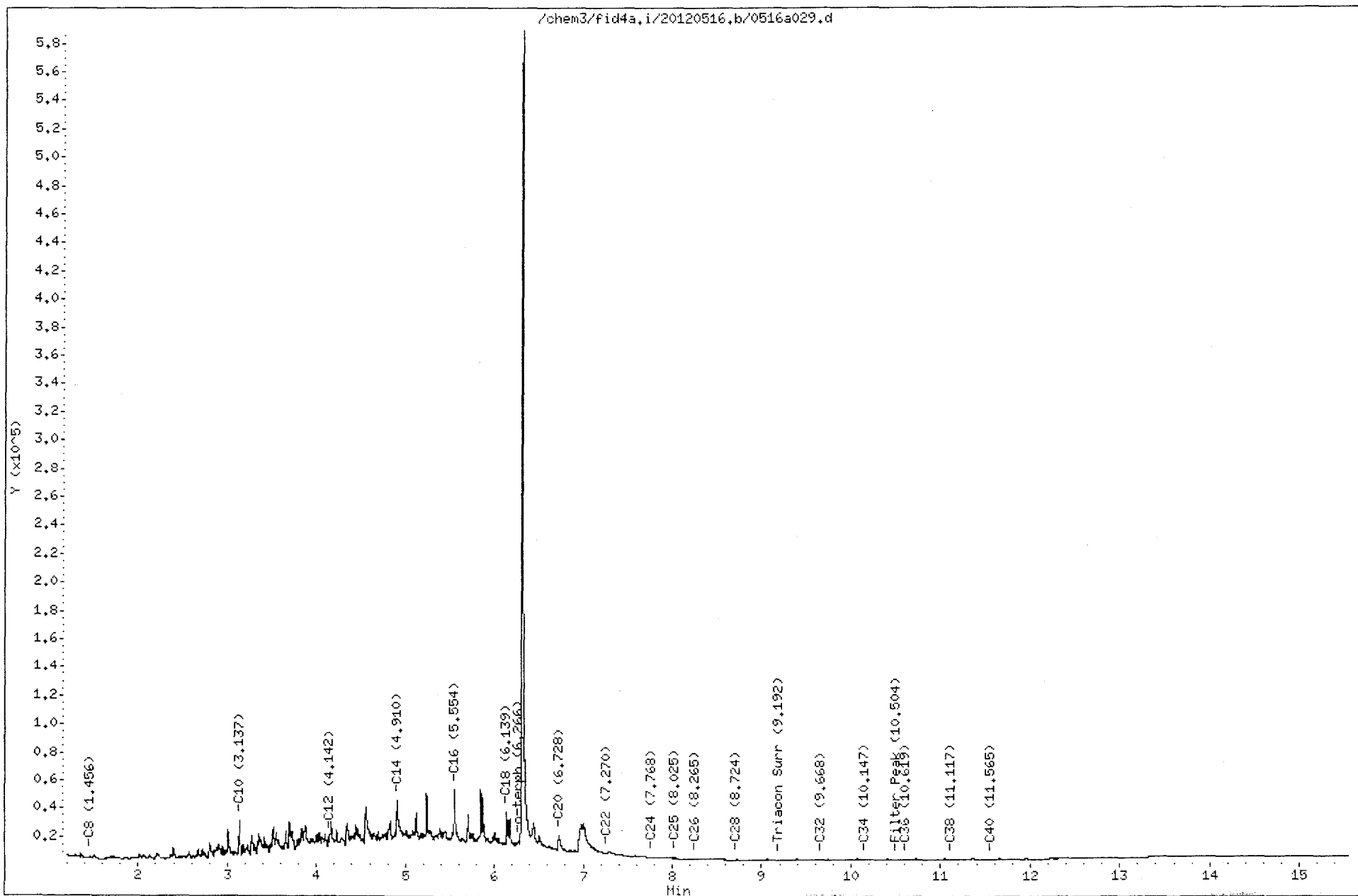
Instrument: fid4a.i

Sample Info: DIESEL ICV

Operator: MH

Column phase: RTX-1

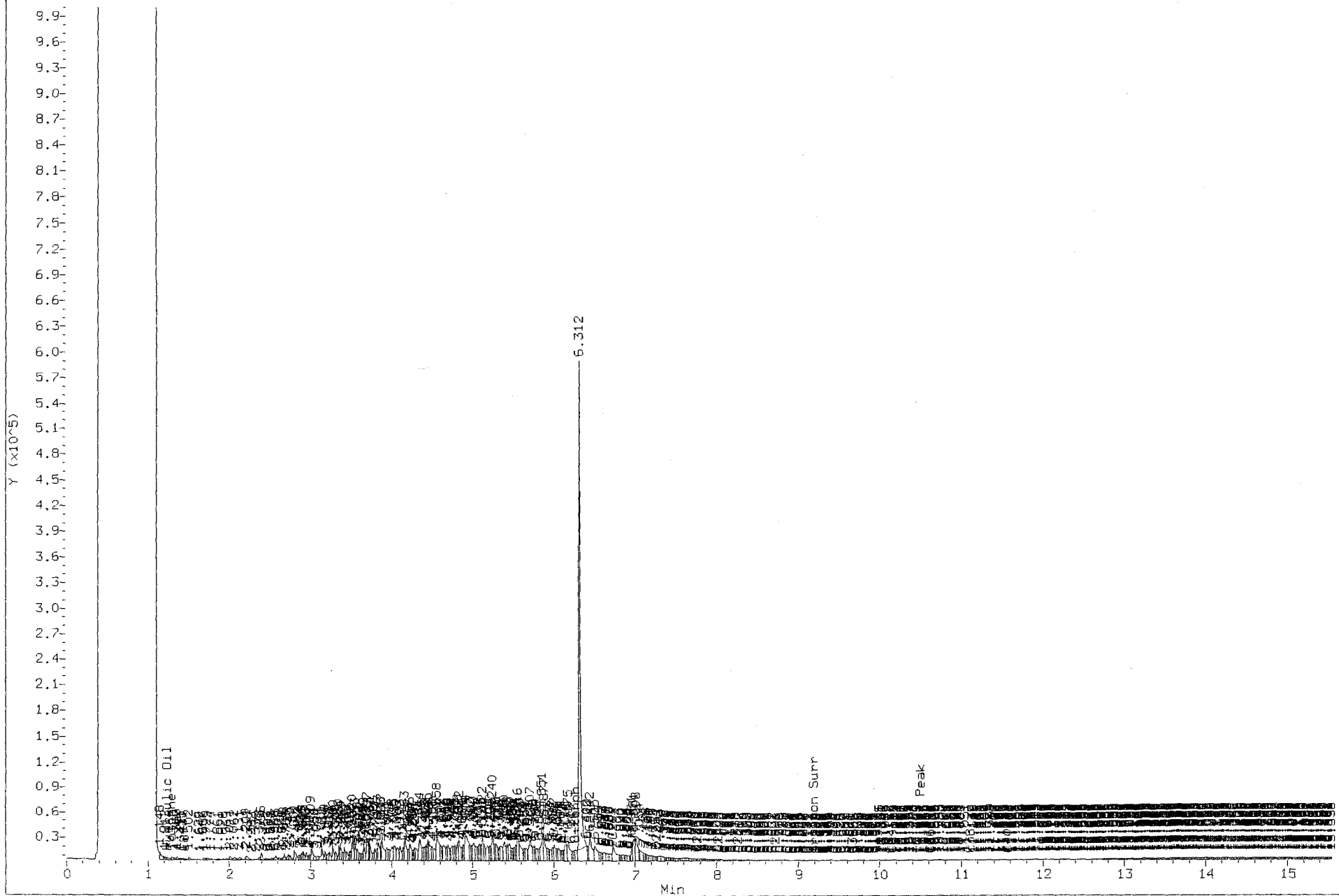
Column diameter: 0,25



UUS2:01858

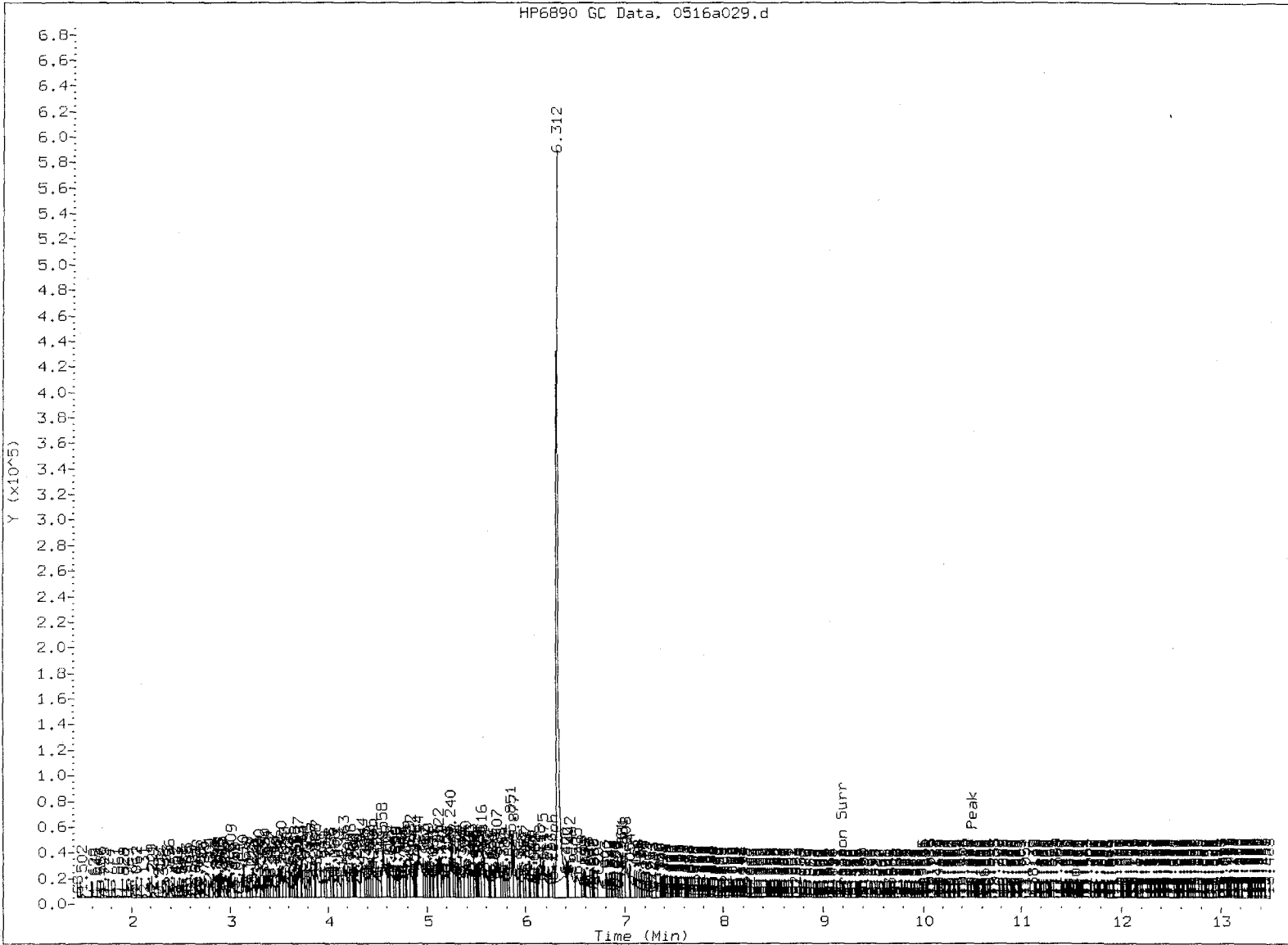
Data File: /chem3/fid4a.1/20120516.b/0516a029.d
Injection Date: 16-MAY-2012 18:42
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0516a029.d: 0.000 to 15.548 Min



UUS2:01859

HP6890 GC Data. 0516a029.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/17/12

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid4a.i/20120515.b/ftphfid4a.m
Batch File: /chem3/fid4a.i/20120515.b
Inst ID: fid4a.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0515a005a | 0515a005b | 0515a005c | 0515a005d | 0515a005e | 0515a006 |
| INJ.DATE: | 15-MAY-2012 | 15-MAY-2012 | 15-MAY-2012 | 15-MAY-2012 | 15-MAY-2012 | 15-MAY-2012 |
| INJ.TIME: | 11:30 | 11:53 | 12:17 | 12:41 | 13:05 | 13:29 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 1 Toluene | 1.272 | 1.287 | 1.292 | 1.306 | 1.268 | 1.292 | 1.282 | 1.182-1.382 | 1.286 | 0.014 |
| 40 Mineral Oil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 39 Creosote | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.546 | 0.496-0.596 | +++++ | +++++ |
| 36 JetA | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.787 | 0.737-0.837 | +++++ | +++++ |
| 37 Bunker C | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.718 | 0.668-0.768 | +++++ | +++++ |
| 38 Hydraulic Oil | +++++ | +++++ | 1.235 | 1.248 | 1.211 | 1.264 | 1.250 | 1.200-1.300 | 1.240 | 0.022 |
| 2 C8 | 1.482 | 1.497 | 1.502 | 1.469 | 1.487 | 1.489 | 1.486 | 1.386-1.586 | 1.488 | 0.012 |
| 3 C10 | 3.129 | 3.132 | 3.119 | 3.131 | 3.128 | 3.133 | 3.126 | 3.076-3.176 | 3.128 | 0.005 |
| 4 C12 | 4.153 | 4.185 | 4.162 | 4.142 | 4.185 | 4.163 | 4.163 | 4.113-4.213 | 4.165 | 0.017 |
| 5 C14 | 4.913 | 4.918 | 4.937 | 4.931 | 4.929 | 4.929 | 4.921 | 4.871-4.971 | 4.926 | 0.009 |
| 6 C16 | 5.550 | 5.557 | 5.548 | 5.544 | 5.544 | 5.552 | 5.557 | 5.507-5.607 | 5.549 | 0.005 |
| 7 C18 | 6.127 | 6.146 | 6.138 | 6.137 | 6.138 | 6.152 | 6.142 | 6.092-6.192 | 6.139 | 0.009 |
| 8 o-terph | 6.326 | 6.313 | 6.311 | 6.322 | 6.335 | 6.366 | 6.312 | 6.262-6.362 | 6.329 | 0.020 |
| 9 C20 | 6.722 | 6.729 | 6.725 | 6.716 | 6.715 | 6.726 | 6.724 | 6.674-6.774 | 6.722 | 0.006 |
| 10 C22 | 7.255 | 7.273 | 7.265 | 7.280 | 7.265 | 7.271 | 7.269 | 7.219-7.319 | 7.268 | 0.009 |
| 11 C24 | 7.775 | 7.771 | 7.784 | 7.794 | 7.790 | 7.787 | 7.782 | 7.732-7.832 | 7.784 | 0.009 |
| 12 C25 | 8.026 | 8.030 | 8.021 | 8.028 | 8.027 | 8.045 | 8.028 | 7.978-8.078 | 8.029 | 0.008 |

Reviewer 1
Reviewer 2

MT

Date: 5/16/12
Date: 5/17/12

01851

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid4a.i/20120515.b/ftphfid4a.m
Batch File: /chem3/fid4a.i/20120515.b
Inst ID: fid4a.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|--------------------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 13 C26 | 8.263 | 8.286 | 8.242 | 8.271 | 8.266 | 8.270 | 8.270 | 8.220-8.320 | 8.266 | 0.014 |
| 14 C28 | 8.732 | 8.716 | 8.737 | 8.713 | 8.737 | 8.731 | 8.726 | 8.676-8.776 | 8.728 | 0.011 |
| \$ 15 Triacon Surr | 9.190 | 9.193 | 9.191 | 9.205 | 9.179 | 9.189 | 9.194 | 9.144-9.244 | 9.191 | 0.008 |
| 16 C32 | 9.665 | 9.673 | 9.670 | 9.677 | 9.657 | 9.665 | 9.667 | 9.617-9.717 | 9.668 | 0.007 |
| 17 C34 | 10.135 | 10.143 | 10.150 | 10.152 | 10.132 | 10.147 | 10.150 | 10.100-10.200 | 10.143 | 0.008 |
| 18 Filter Peak | 10.522 | 10.532 | 10.513 | 10.520 | 10.525 | 10.510 | 10.518 | 10.418-10.618 | 10.520 | 0.008 |
| 19 C36 | 10.625 | 10.624 | 10.630 | 10.633 | 10.642 | 10.644 | 10.633 | 10.583-10.683 | 10.633 | 0.008 |
| 20 C38 | 11.145 | 11.070 | 11.130 | 11.114 | 11.118 | 11.117 | 11.105 | 11.055-11.155 | 11.116 | 0.025 |
| 21 C40 | 11.559 | 11.559 | 11.574 | 11.557 | 11.565 | 11.562 | 11.558 | 11.508-11.608 | 11.563 | 0.006 |
| 31 NW Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 32 OR Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.687 | 0.637-0.737 | +++++ | +++++ |
| 33 AK Dies 102 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.660 | 0.610-0.710 | +++++ | +++++ |
| 30 NW MOil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 34 CRUDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 35 AK MOil 103 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.612 | 0.562-0.662 | +++++ | +++++ |

0052:01862



M. oil curve

GC Initial Calibration Notes

ARI SOP: **403S**(PCB) **405S**(Herb) ~~407S~~(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) Other

Instrument: FID-3A FID-3B ~~FID-4A~~ FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 5/14/12 Internal Standard ID Expiration

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? ~~YES~~ / ~~NO~~

ICal Meets %RSD & r² Criteria ~~YES~~ / NO ICV Exceeding ±30%? YES / NO

Manual Integrations for ICal? ~~YES~~ / NO Linear Fits Used? YES / ~~NO~~

Minimum Response S/N Met ~~YES~~ / NO Quadratic Fits Used? YES / ~~NO~~

Calibration Points Dropped? ^{high point surr} ~~YES~~ / ~~NO~~

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|----------------|---------------|---------------|------------------|---------------|-----------------|
| <u>Chevron</u> | <u>1971-3</u> | <u>5/7/13</u> | <u>Valvoline</u> | <u>1977-1</u> | <u>11/23/12</u> |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

Detail problems, corrective actions and/or other pertinent information below:

high point of curve 2500 & 5000 surr RT shifted due to saturation. surrogat
high point taken out 2500point Keeped (shifting 0.033). n-Tricenture usually
not requested.

Analyst: [Signature] Date: 5/16/12

Reviewer: [Signature] Date: 5/16/12

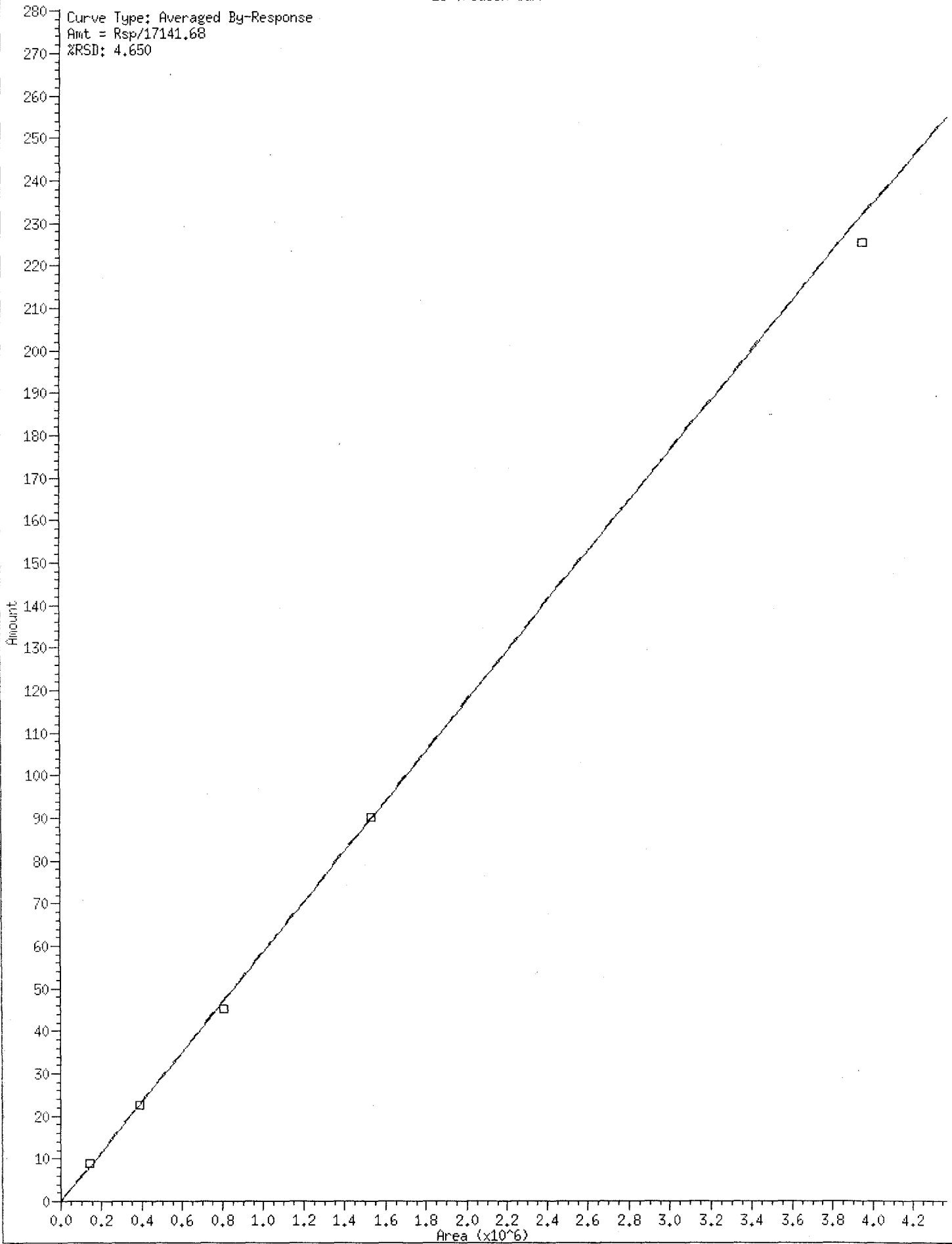
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2004 08:49
 End Cal Date : 14-MAY-2012 15:51
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem3/fid4a.i/20120514.b/ftphfid4a.m
 Cal Date : 15-May-2012 06:49 monicah
 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 | | |
| \$ 15 Triacon Surr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 15850 | 17196 | 17920 | 17089 | 17653 | 17142 | 4.650 |

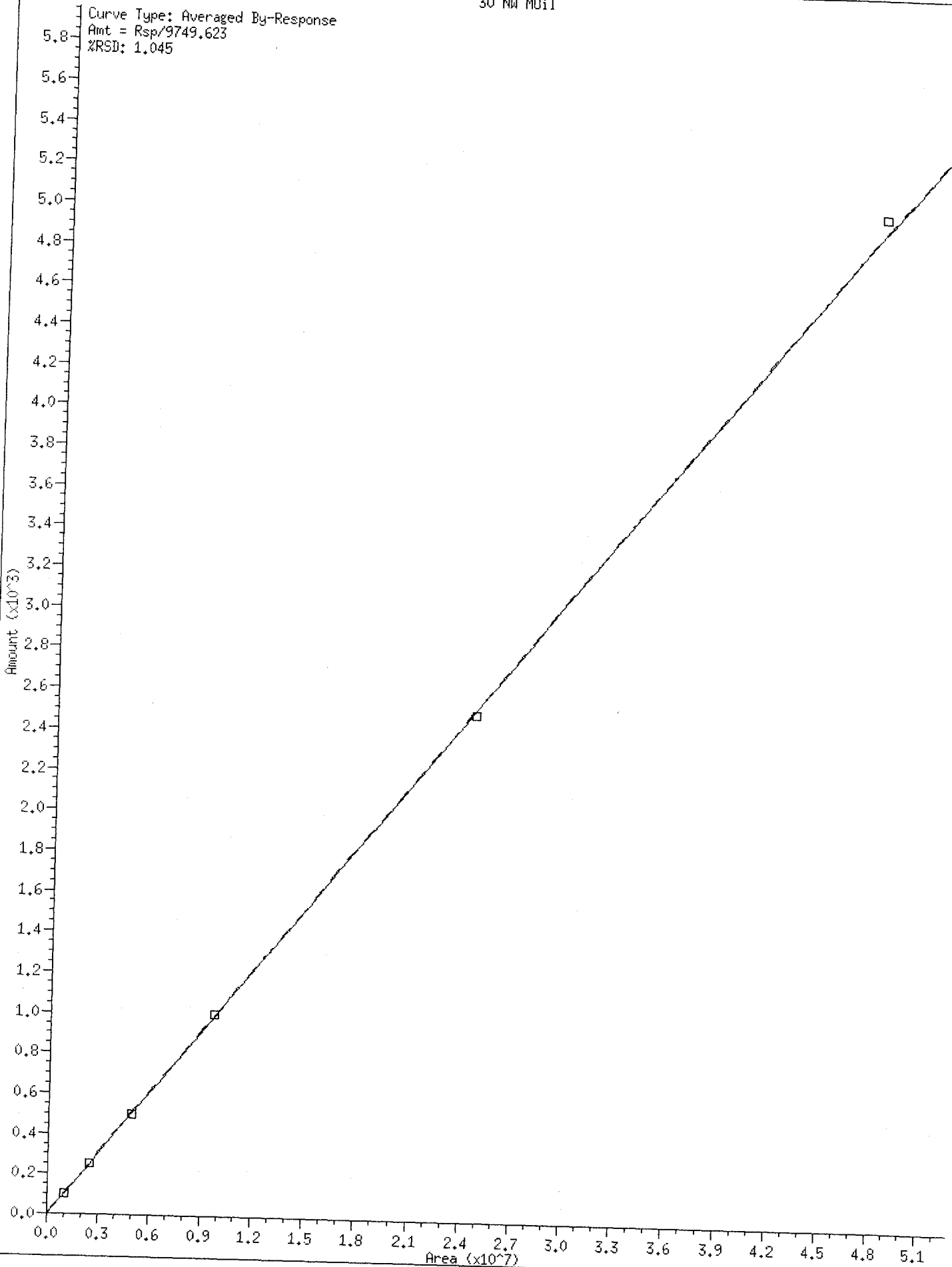
* 15 Triacon Surr



UU52:01865

30 NW MD11

Curve Type: Averaged By-Response
Amt = Rsp/9749.623
%RSD: 1.045



UU52:01866

MH
5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120514.b/0514a020.d
 Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m
 Instrument: fid4a.i
 Operator: MH
 Report Date: 05/15/2012
 Macro: 14-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

ARI ID: MOIL 100
 Client ID:
 Injection: 14-MAY-2012 13:51
 Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | ---- | | | | GAS (Tol-C12) | 87527 | 6 |
| C8 | 1.531 | 0.054 | 2053 | 8788 | DIESEL (C12-C24) | 104695 | 6.94 |
| C10 | 3.133 | 0.011 | 378 | 424 | M.OIL (C24-C38) | 981859 | 100.71 |
| C12 | 4.179 | -0.003 | 319 | 134 | AK-102 (C10-C25) | 166892 | 9.34 |
| C14 | 4.923 | 0.008 | 235 | 162 | AK-103 (C25-C36) | 888971 | 114.57 M |
| C16 | 5.568 | 0.011 | 137 | 86 | | | |
| C18 | 6.131 | -0.008 | 69 | 79 | | | |
| C20 | 6.724 | 0.002 | 110 | 65 | MIN.OIL (C24-C38) | 981859 | 73.05 M |
| C22 | 7.286 | 0.017 | 853 | 717 | | | |
| C24 | 7.790 | 0.005 | 4043 | 1768 | | | |
| C25 | 8.025 | -0.007 | 5608 | 6655 | | | |
| C26 | 8.275 | 0.006 | 6377 | 6427 | | | |
| C28 | 8.735 | 0.009 | 7367 | 4708 | | | |
| C32 | 9.671 | 0.000 | 6188 | 2285 | | | |
| C34 | 10.163 | 0.011 | 4407 | 5189 | CREOSOT (C12-C22) | 33489 | 9.11 |
| Filter Peak | 10.517 | 0.008 | 2892 | 3650 | | | |
| C36 | 10.628 | -0.001 | 2651 | 3736 | | | |
| C38 | 11.097 | -0.002 | 1478 | 1091 | | | |
| C40 | 11.579 | 0.010 | 890 | 1052 | | | |
| o-terph | 6.318 | 0.004 | 34 | 22 | JET-A (C10-C18) | 38494 | 2.59 |
| Triacon Surr | 9.189 | -0.014 | 129870 | 142652 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 22 | 0.0 | 0.0 |
| Triacontane | 142652 | 8.3 | 18.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 14-MAY-2012 13:51

Client ID:

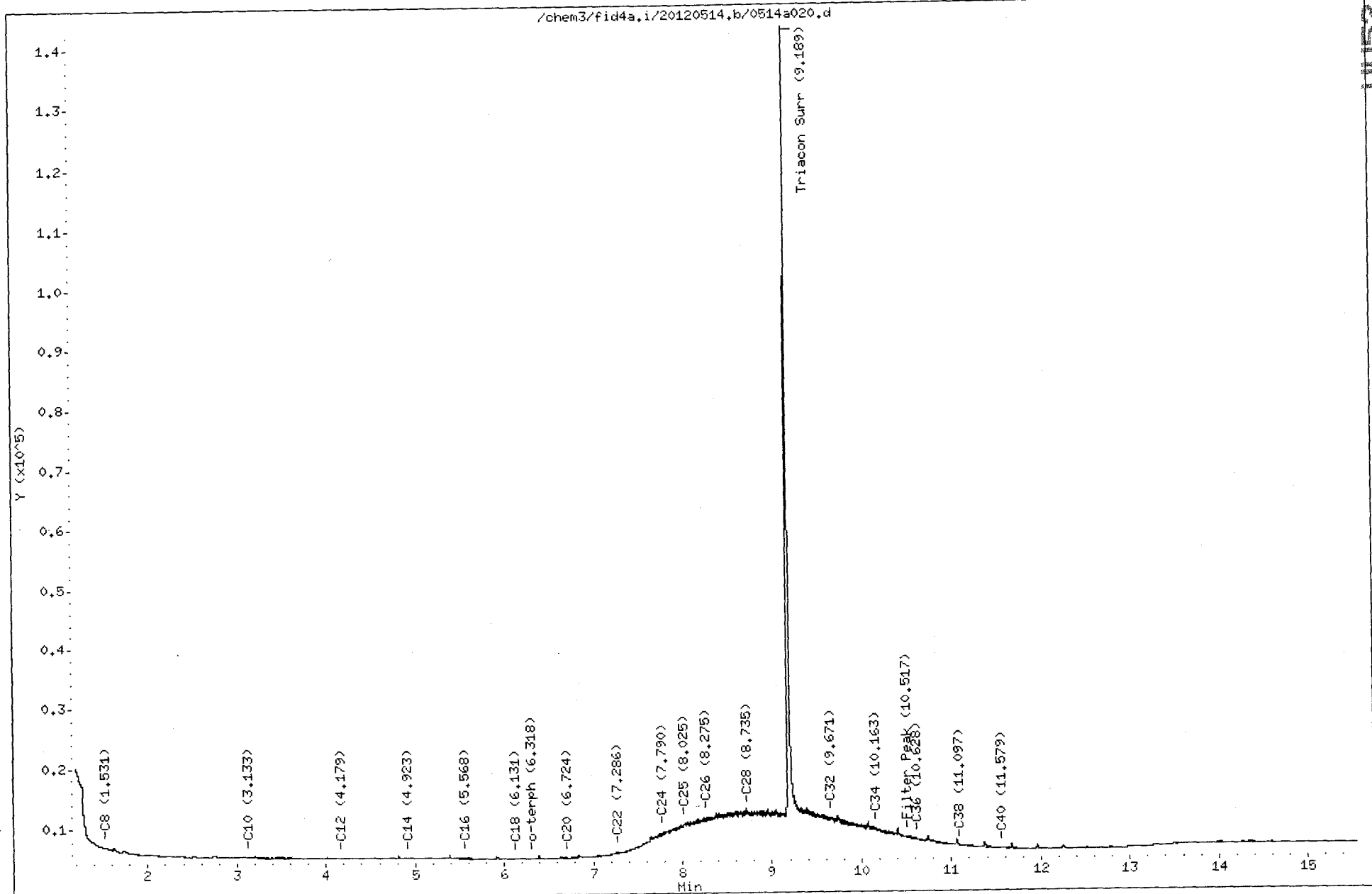
Sample Info: MDIL 100

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

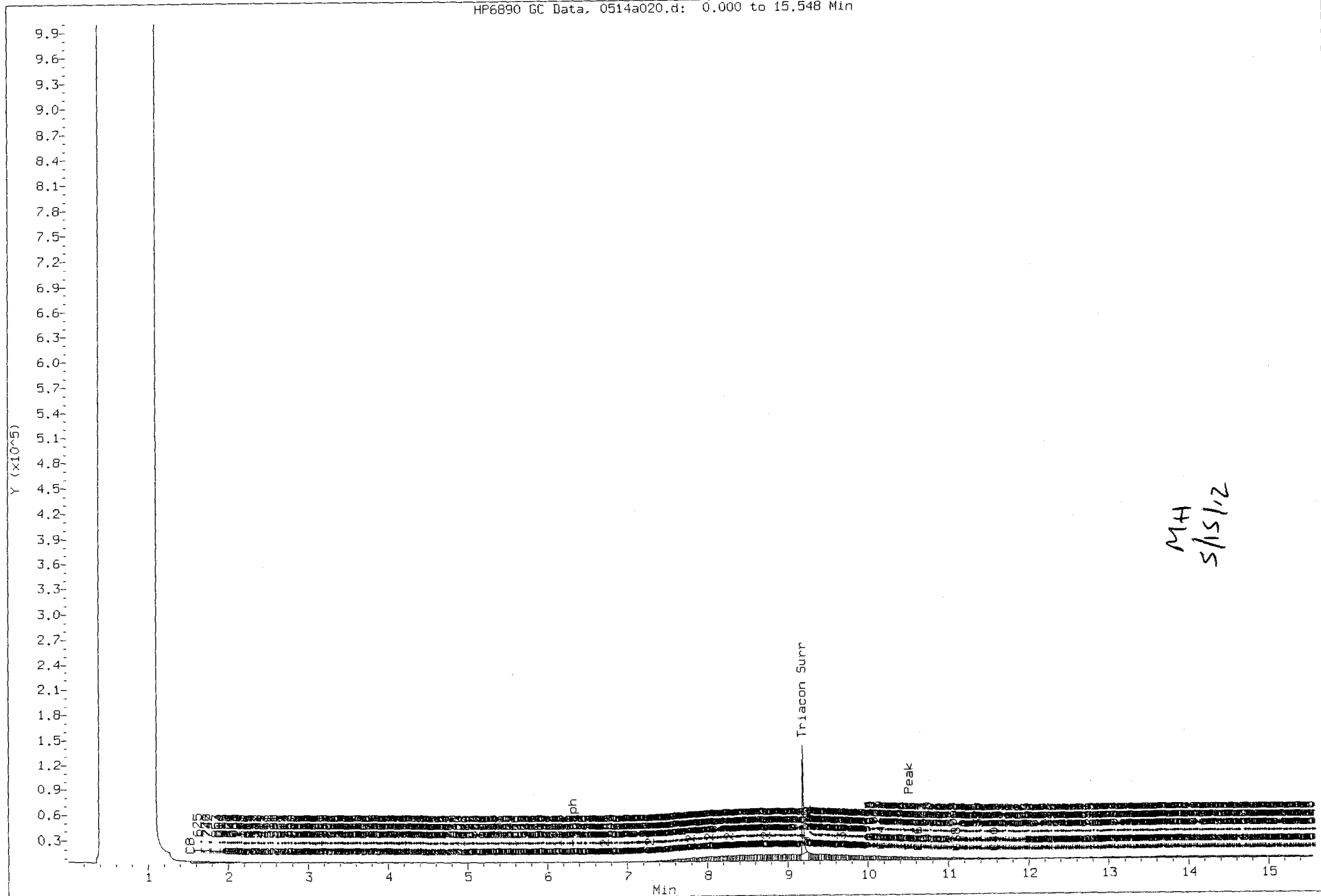
Column phase: RTX-1



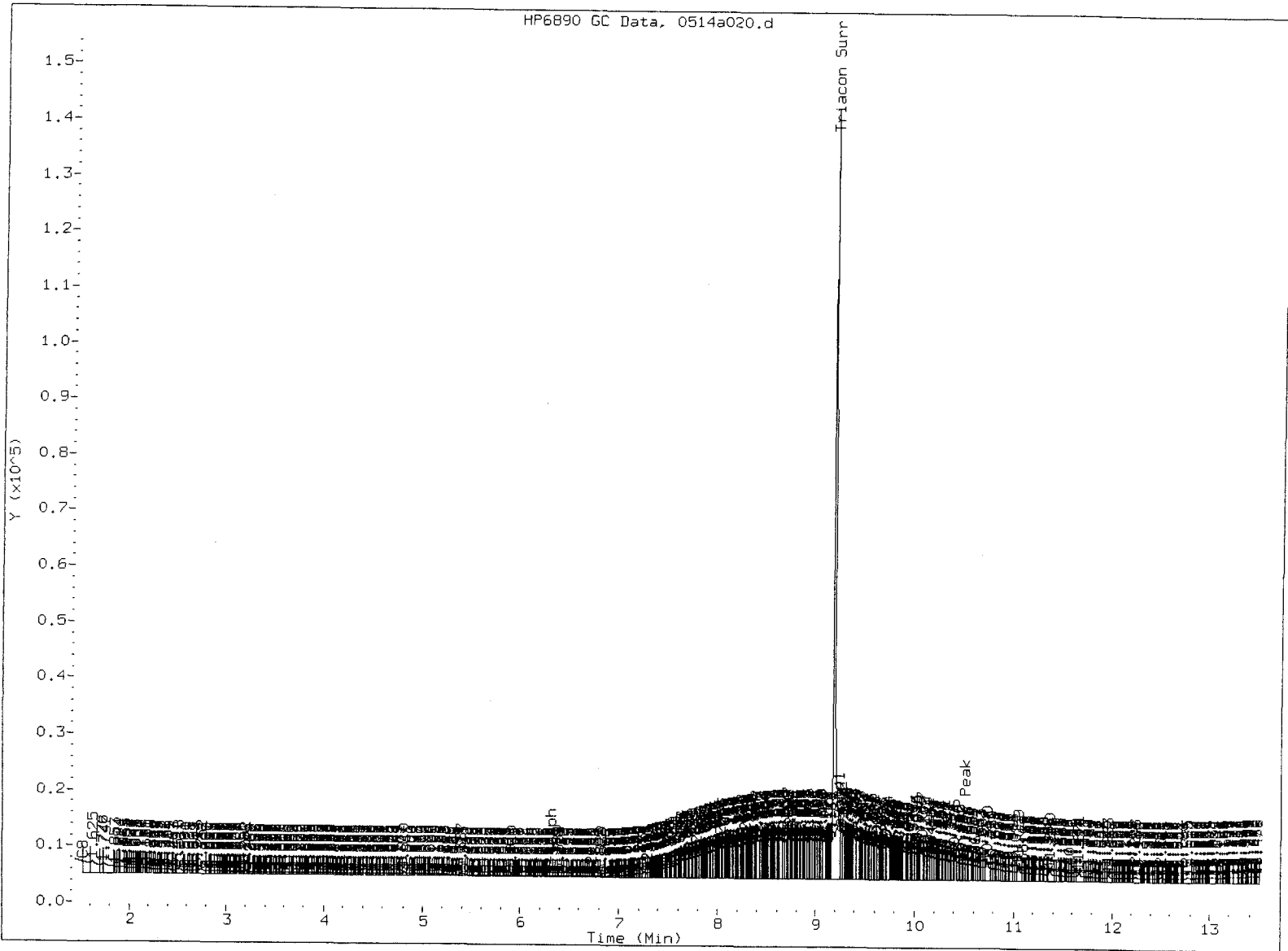
0052:01868

Data File: /chem3/fid4a.i/20120514.b/0514a020.d
Injection Date: 14-MAY-2012 13:51
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0514a020.d: 0.000 to 15.548 Min



UUS2:01869



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/15/12

Data file: /chem3/fid4a.i/20120514.b/0514a021.d ARI ID: MOIL 250
Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m Client ID:
Instrument: fid4a.i Injection: 14-MAY-2012 14:15
Operator: MH
Report Date: 05/15/2012 Dilution Factor: 1
Macro: 14-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.269 | 0.000 | 21316 | 44262 | GAS (Tol-C12) | 125360 | 8.33 |
| C8 | 1.494 | 0.017 | 627 | 1229 | DIESEL (C12-C24) | 309159 | 20.50 |
| C10 | 3.123 | 0.000 | 341 | 213 | M.OIL (C24-C38) | 2450665 | 251.36 |
| C12 | 4.193 | 0.010 | 902 | 1493 | AK-102 (C10-C25) | 460247 | 25.75 |
| C14 | 4.922 | 0.007 | 799 | 1601 | AK-103 (C25-C36) | 2208866 | 284.67 M |
| C16 | 5.555 | -0.002 | 546 | 223 | | | |
| C18 | 6.115 | -0.024 | 383 | 1257 | | | |
| C20 | 6.713 | -0.008 | 496 | 501 | MIN.OIL (C24-C38) | 2450665 | 182.33 M |
| C22 | 7.278 | 0.009 | 2428 | 3244 | | | |
| C24 | 7.783 | -0.001 | 10071 | 7215 | | | |
| C25 | 8.025 | -0.007 | 13297 | 16004 | | | |
| C26 | 8.278 | 0.009 | 16267 | 19168 | | | |
| C28 | 8.721 | -0.005 | 18405 | 11588 | | | |
| C32 | 9.685 | 0.014 | 14711 | 5200 | | | |
| C34 | 10.150 | -0.001 | 11459 | 19879 | CREOSOT (C12-C22) | 120140 | 32.70 |
| Filter Peak | 10.507 | -0.002 | 7831 | 10370 | | | |
| C36 | 10.646 | 0.016 | 6700 | 6863 | | | |
| C38 | 11.095 | -0.004 | 3985 | 3294 | | | |
| C40 | 11.576 | 0.006 | 2169 | 969 | | | |
| o-terph | 6.320 | 0.006 | 202 | 120 | JET-A (C10-C18) | 109691 | 7.39 |
| Triacon Surr | 9.192 | -0.011 | 317894 | 386908 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 120 | 0.0 | 0.0 |
| Triacontane | 386908 | 22.6 | 50.2 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120514.b/0514a021.d

Date : 14-MAY-2012 14:15

Client ID:

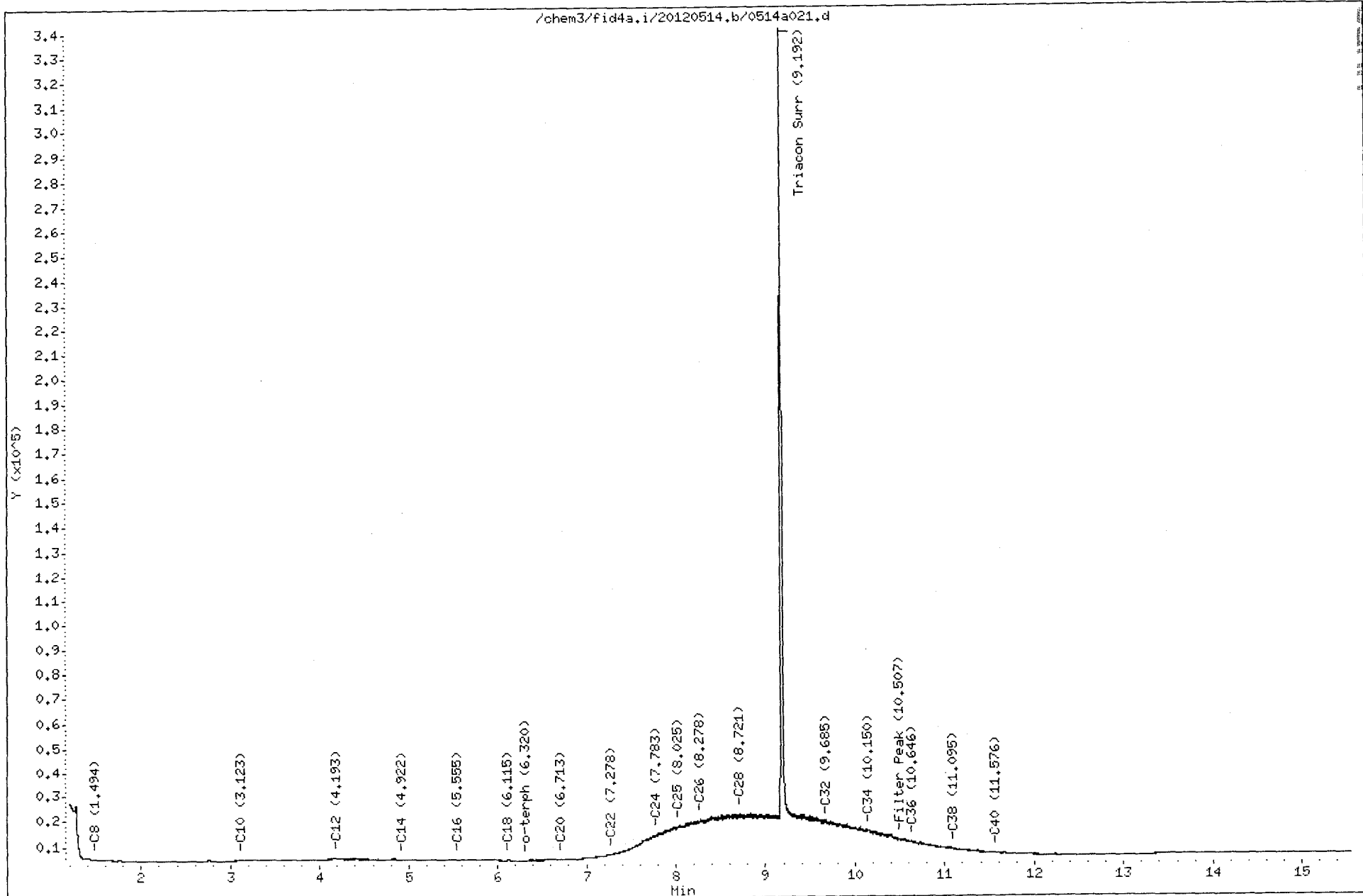
Instrument: fid4a.i

Sample Info: MOIL 250

Operator: MH

Column phase: RTX-1

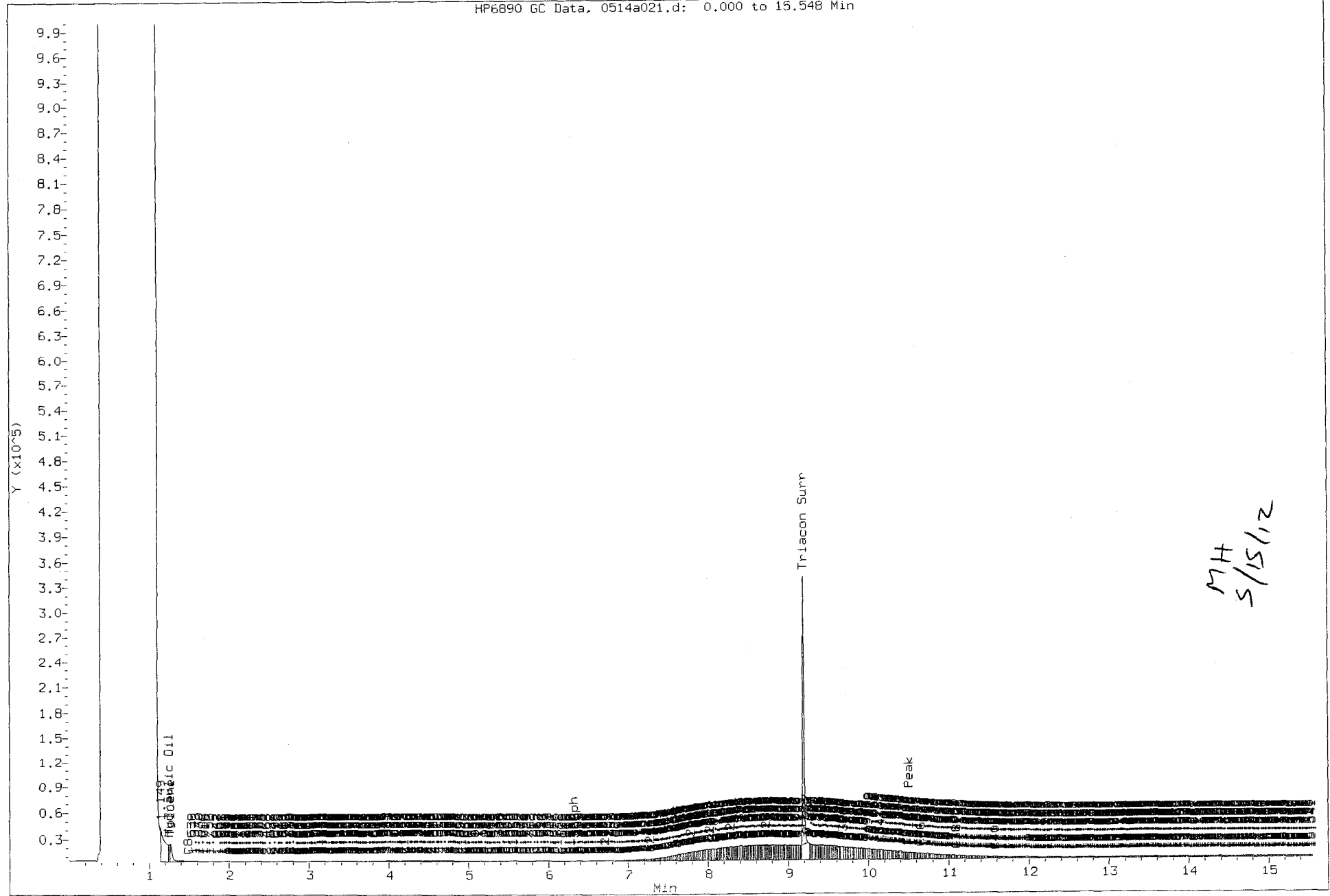
Column diameter: 0.25



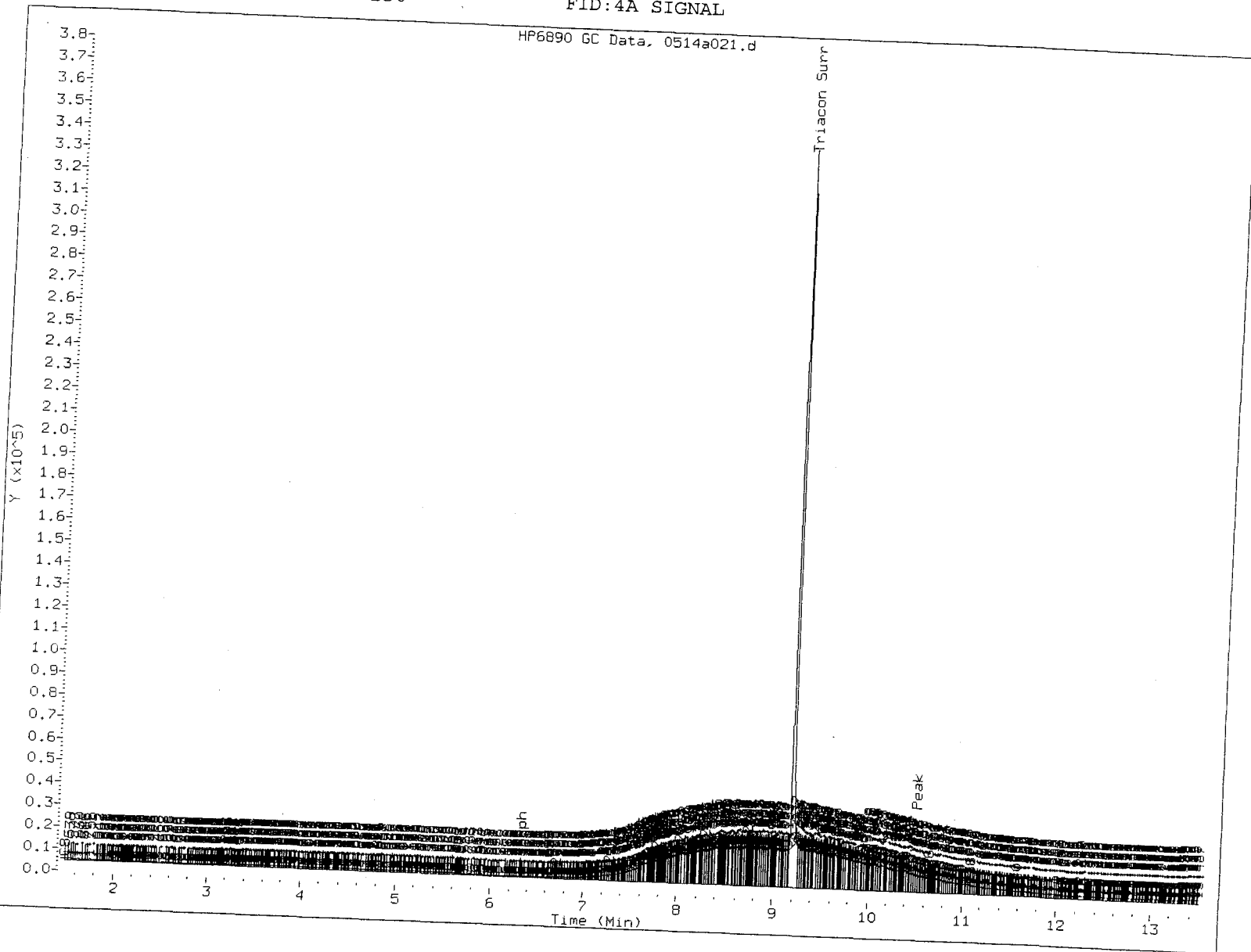
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Data File: /chem3/fid4a.i/20120514.b/0514a021.d
Injection Date: 14-MAY-2012 14:15
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0514a021.d: 0.000 to 15.548 Min



0514a021.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/15/12

MH
5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120514.b/0514a022.d ARI ID: MOIL 500
 Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 14-MAY-2012 14:39
 Operator: MH
 Report Date: 05/15/2012 Dilution Factor: 1
 Macro: 14-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.267 | -0.002 | 40642 | 81043 | GAS (Tol-C12) | 211833 | 14.08 |
| C8 | 1.499 | 0.022 | 662 | 1424 | DIESEL (C12-C24) | 591509 | 39.23 |
| C10 | 3.119 | -0.004 | 406 | 269 | M.OIL (C24-C38) | 4908154 | 503.42 |
| C12 | 4.187 | 0.004 | 1146 | 1721 | AK-102 (C10-C25) | 846293 | 47.35 |
| C14 | 4.924 | 0.008 | 1017 | 1042 | AK-103 (C25-C36) | 4443084 | 572.61 M |
| C16 | 5.565 | 0.007 | 619 | 303 | | | |
| C18 | 6.155 | 0.016 | 313 | 305 | | | |
| C20 | 6.721 | 0.000 | 993 | 656 | MIN.OIL (C24-C38) | 4908154 | 365.17 M |
| C22 | 7.279 | 0.010 | 4969 | 7020 | | | |
| C24 | 7.779 | -0.006 | 20195 | 7349 | | | |
| C25 | 8.032 | 0.000 | 27177 | 24480 | | | |
| C26 | 8.272 | 0.003 | 31273 | 20165 | | | |
| C28 | 8.721 | -0.006 | 35981 | 36833 | | | |
| C32 | 9.668 | -0.003 | 32152 | 42674 | | | |
| C34 | 10.153 | 0.001 | 23828 | 25969 | CREOSOT (C12-C22) | 190465 | 51.84 |
| Filter Peak | 10.511 | 0.001 | 15549 | 7679 | | | |
| C36 | 10.639 | 0.009 | 14008 | 6230 | | | |
| C38 | 11.093 | -0.007 | 8061 | 10780 | | | |
| C40 | 11.569 | -0.001 | 4299 | 5405 | | | |
| o-terph | 6.328 | 0.013 | 364 | 476 | JET-A (C10-C18) | 139068 | 9.37 |
| Triacon Surr | 9.206 | 0.002 | 470389 | 806391 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 476 | 0.0 | 0.1 |
| Triacontane | 806391 | 47.0 | 104.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120514.b/0514a022.d

Page 1

Date : 14-MAY-2012 14:39

Client ID:

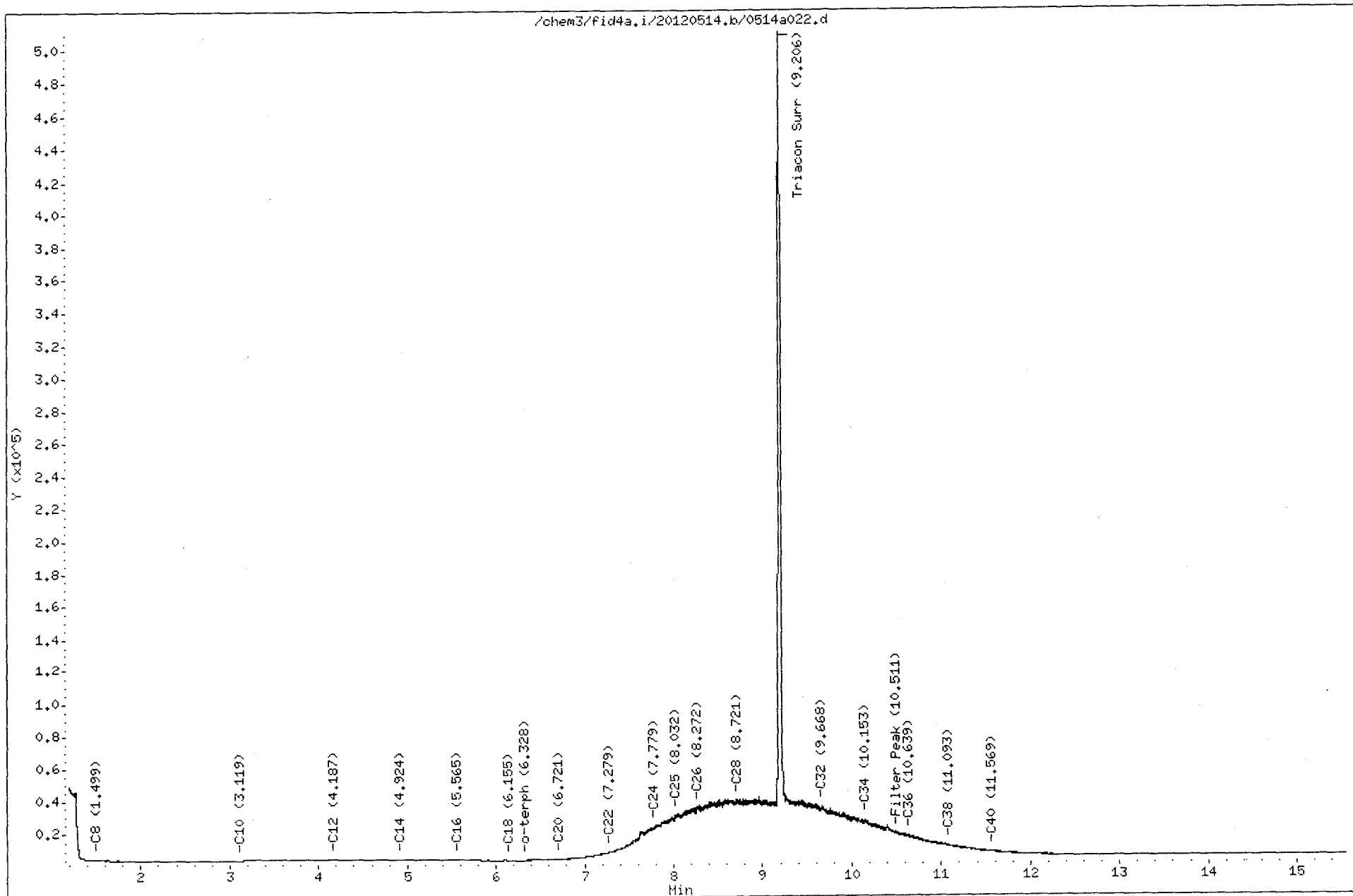
Instrument: fid4a.i

Sample Info: MOIL 500

Operator: MH

Column phase: RTX-1

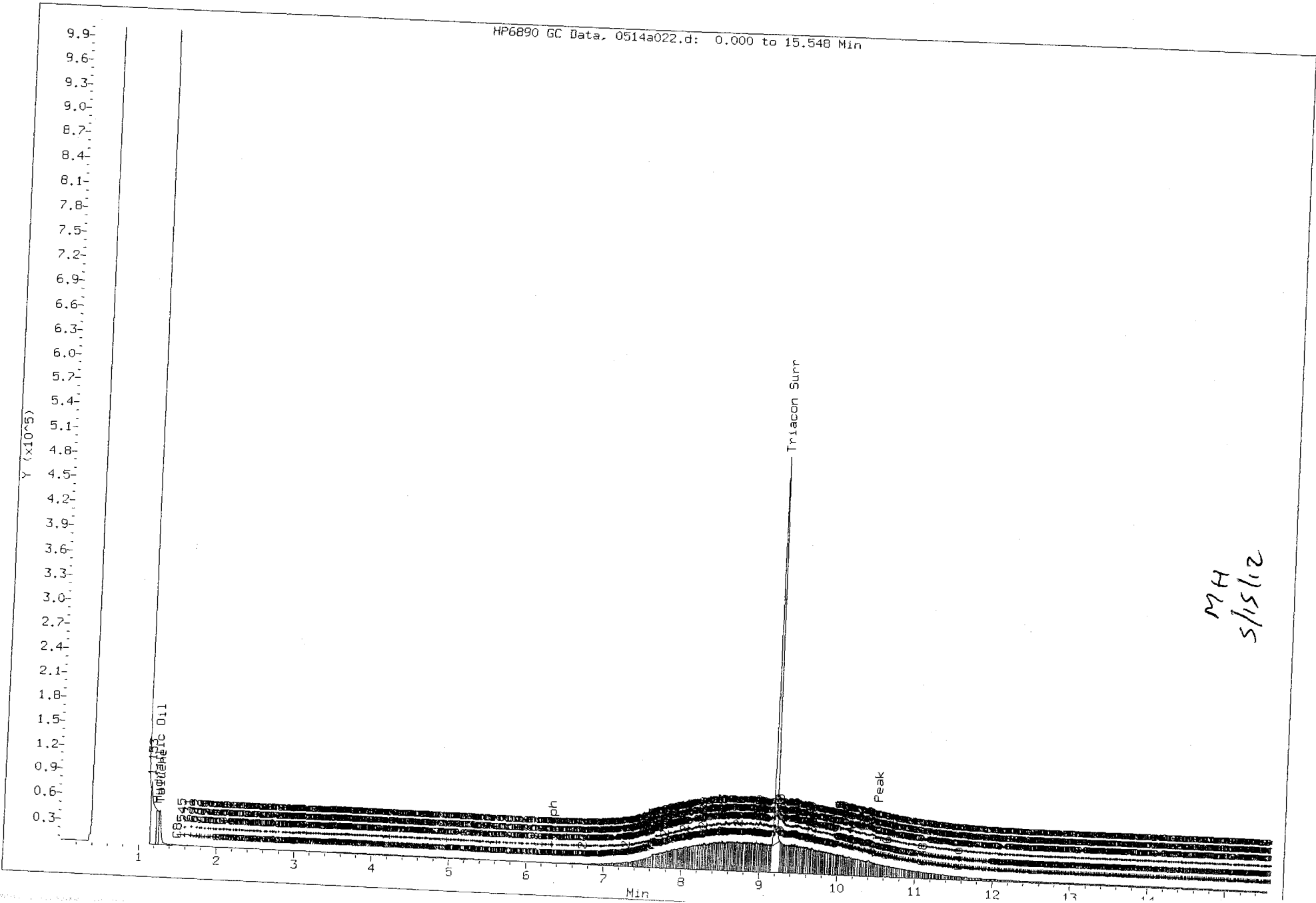
Column diameter: 0.25



0052:01876

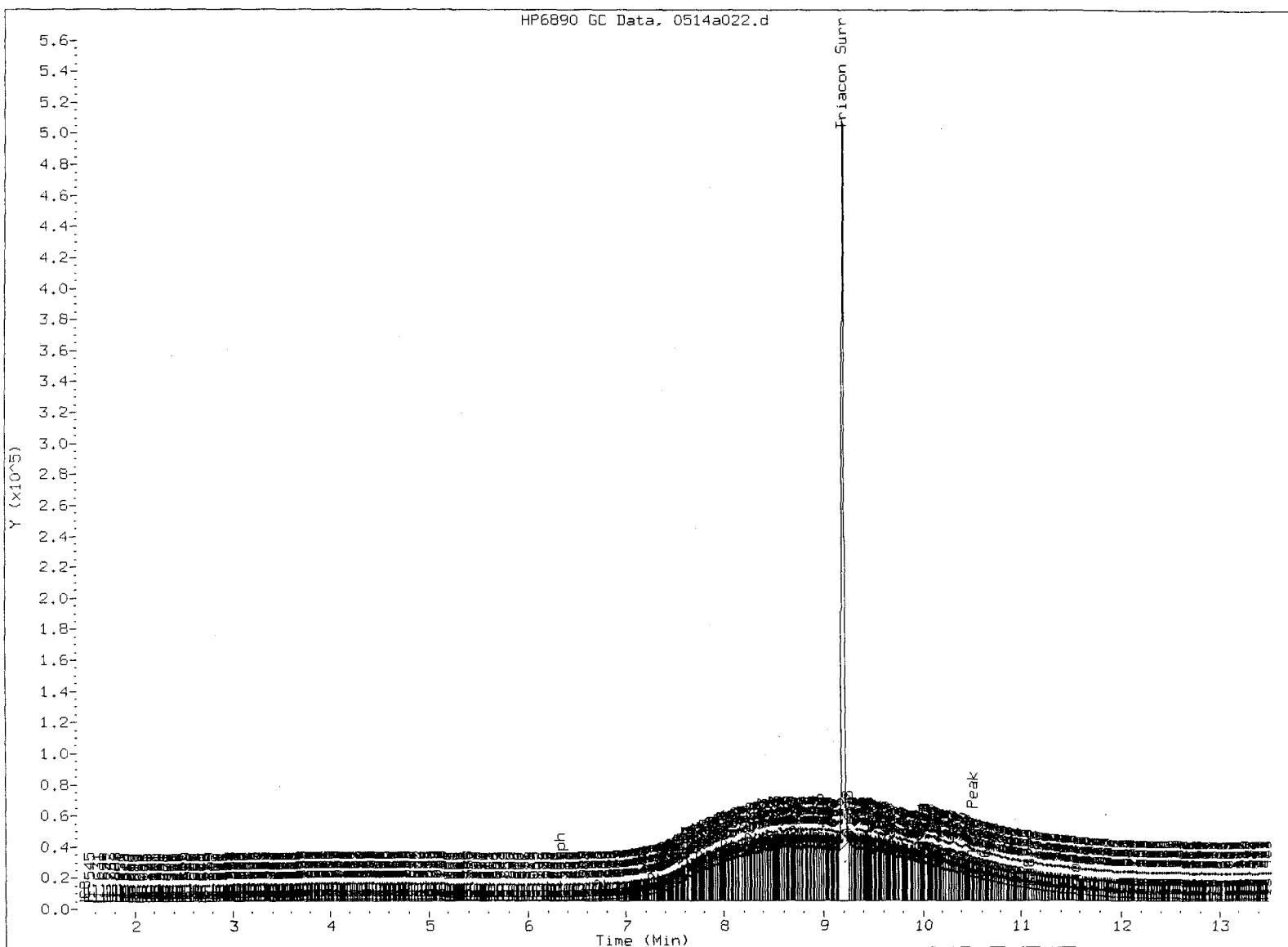
Data File: /chem3/fid4a.i/20120514.b/0514a022.d
Injection Date: 14-MAY-2012 14:39
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0514a022.d: 0.000 to 15.548 Min



12810:25M

HP6890 GC Data, 0514a022.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/15/12

Data file: /chem3/fid4a.i/20120514.b/0514a023.d
Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/15/2012
Macro: 14-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

ARI ID: MOIL 1000
Client ID:
Injection: 14-MAY-2012 15:03
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|---------|-------------------|------------|-----------|
| Toluene | 1.265 | -0.005 | 83357 | 153184 | GAS (Tol-C12) | 312893 | 20.80 |
| C8 | 1.555 | 0.078 | 724 | 2087 | DIESEL (C12-C24) | 1035882 | 68.70 |
| C10 | 3.127 | 0.004 | 576 | 313 | M.OIL (C24-C38) | 9634177 | 988.16 |
| C12 | 4.175 | -0.007 | 1392 | 2601 | AK-102 (C10-C25) | 1474244 | 82.48 |
| C14 | 4.907 | -0.009 | 1129 | 1139 | AK-103 (C25-C36) | 8730385 | 1125.15 M |
| C16 | 5.565 | 0.007 | 477 | 291 | | | |
| C18 | 6.153 | 0.013 | 300 | 269 | | | |
| C20 | 6.726 | 0.004 | 2030 | 2845 | MIN.OIL (C24-C38) | 9634177 | 716.79 M |
| C22 | 7.269 | -0.001 | 9993 | 12029 | | | |
| C24 | 7.786 | 0.001 | 39799 | 31106 | | | |
| C25 | 8.035 | 0.003 | 53322 | 64829 | | | |
| C26 | 8.268 | -0.001 | 61167 | 40508 | | | |
| C28 | 8.722 | -0.005 | 70994 | 23462 | | | |
| C32 | 9.663 | -0.009 | 60584 | 53372 | | | |
| C34 | 10.154 | 0.002 | 43775 | 24178 | CREOSOT (C12-C22) | 285948 | 77.83 |
| Filter Peak | 10.507 | -0.003 | 32606 | 36314 | | | |
| C36 | 10.631 | 0.001 | 27896 | 28986 | | | |
| C38 | 11.102 | 0.003 | 15122 | 18140 | | | |
| C40 | 11.566 | -0.003 | 7962 | 13369 | | | |
| o-terph | 6.320 | 0.006 | 501 | 679 | JET-A (C10-C18) | 161118 | 10.86 |
| Triacon Surr | 9.236 | 0.032 | 606468 | 1538017 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 679 | 0.0 | 0.1 |
| Triacontane | 1538017 | 89.7 | 199.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 14-MAY-2012 15:03

Client ID:

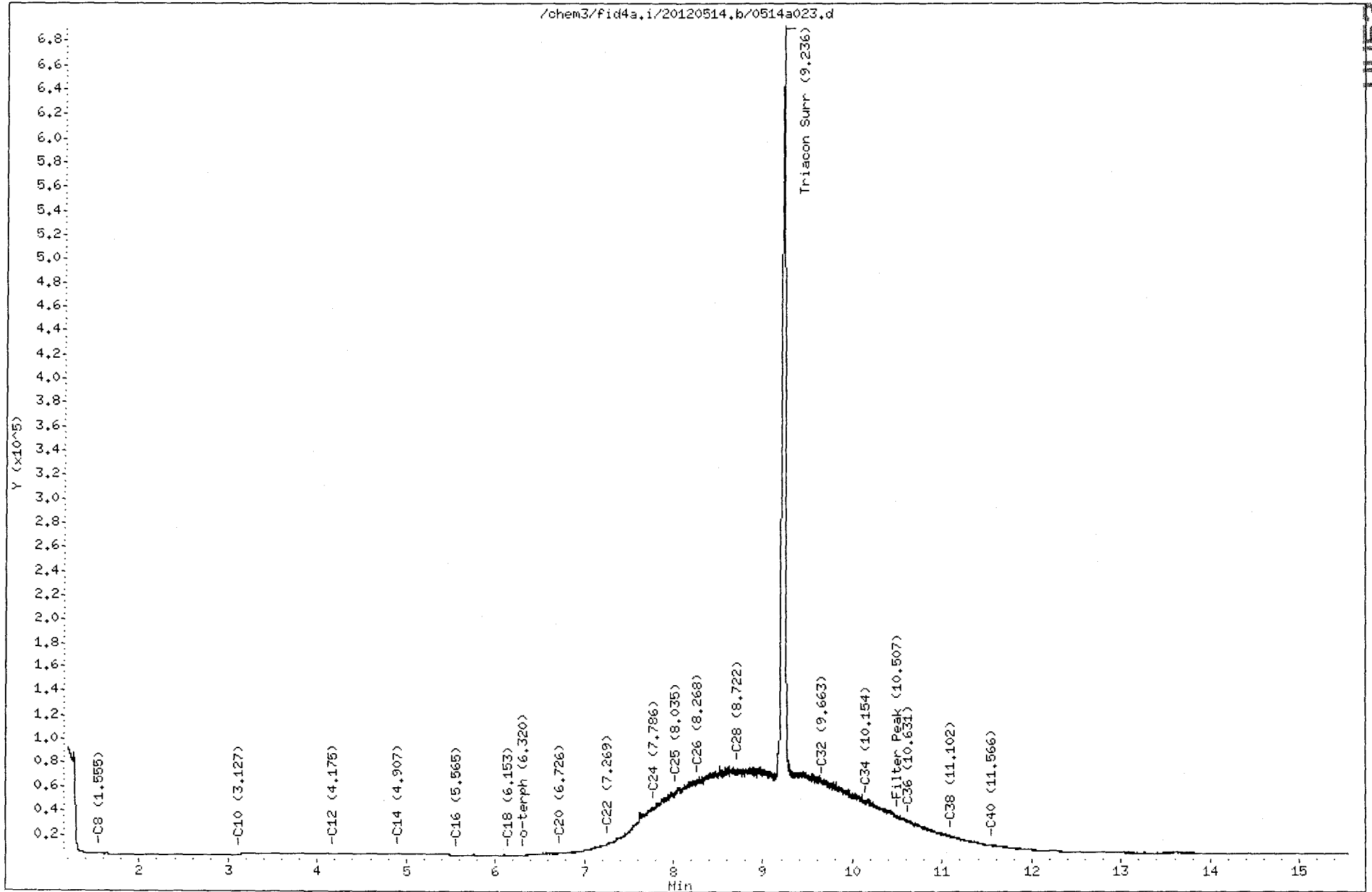
Sample Info: MOIL 1000

Instrument: fid4a.i

Operator: MH

Column phase: RTX-1

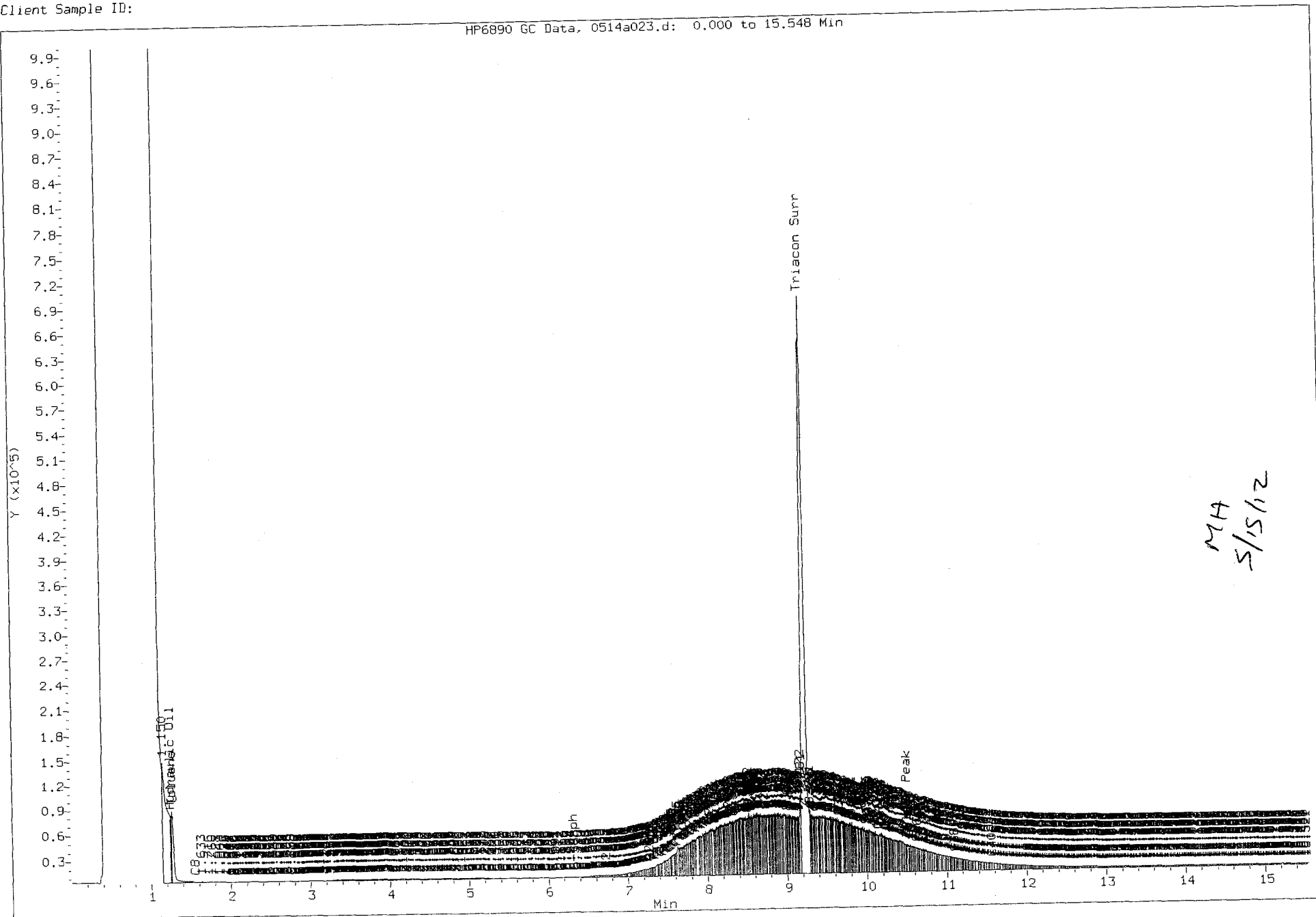
Column diameter: 0.25



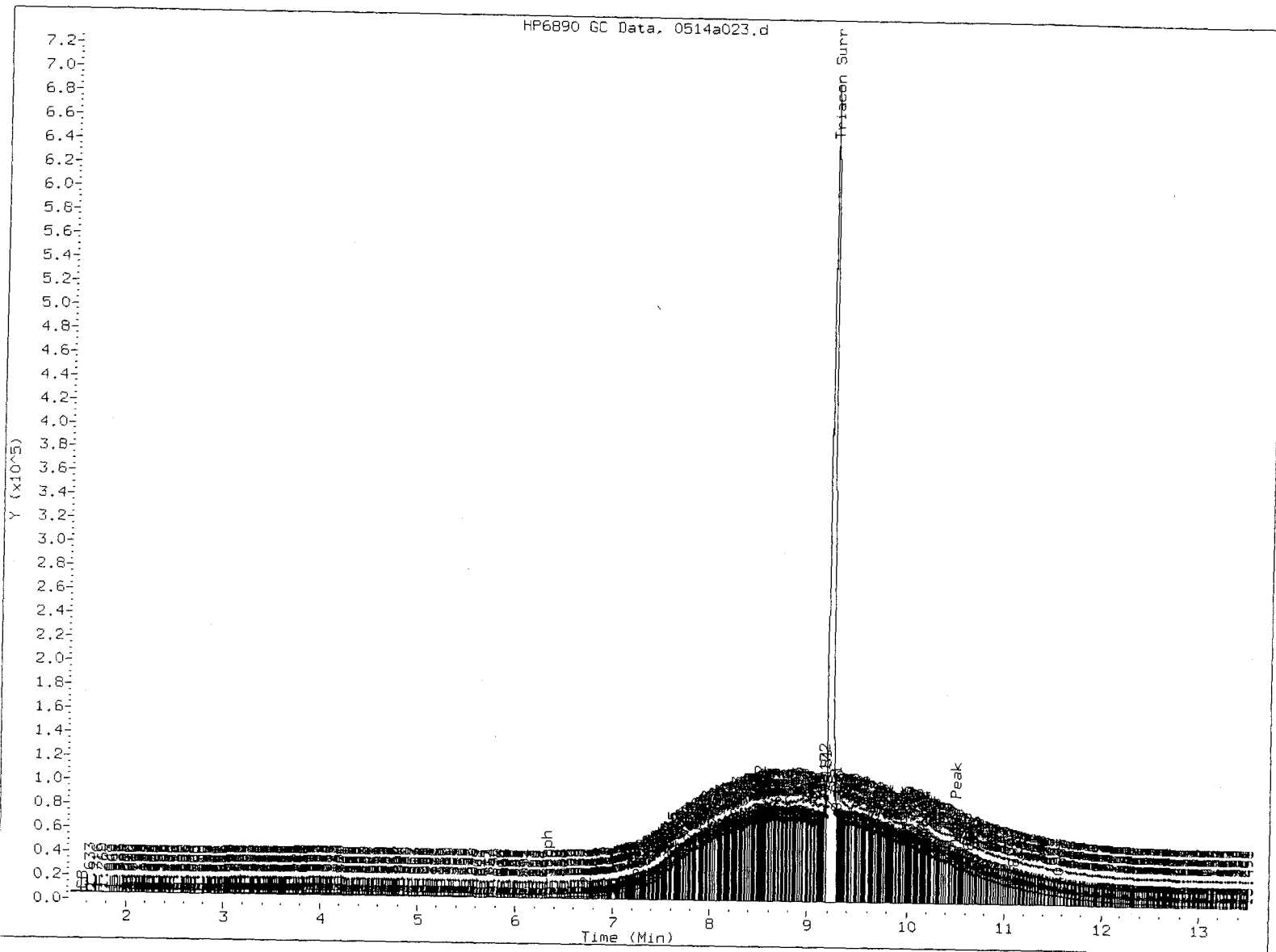
0052:01880

Data File: /chem3/fid4a.i/20120514.b/0514a023.d
Injection Date: 14-MAY-2012 15:03
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0514a023.d: 0.000 to 15.548 Min



0514a023.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/5/12

MH
5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120514.b/0514a024.d
Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/15/2012
Macro: 14-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

ARI ID: MOIL 2500
Client ID:
Injection: 14-MAY-2012 15:27
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|---------|-------------------|------------|-----------|
| Toluene | 1.245 | -0.024 | 186518 | 169316 | GAS (Tol-C12) | 612751 | 40.73 |
| C8 | 1.494 | 0.017 | 1138 | 1529 | DIESEL (C12-C24) | 2606755 | 172.87 |
| C10 | 3.109 | -0.014 | 881 | 1928 | M.OIL (C24-C38) | 24555714 | 2518.63 |
| C12 | 4.196 | 0.014 | 1631 | 2090 | AK-102 (C10-C25) | 3618263 | 202.44 |
| C14 | 4.916 | 0.000 | 1510 | 1844 | AK-103 (C25-C36) | 22166014 | 2856.69 M |
| C16 | 5.555 | -0.002 | 548 | 211 | | | |
| C18 | 6.153 | 0.014 | 1109 | 1801 | | | |
| C20 | 6.715 | -0.007 | 5741 | 7460 | MIN.OIL (C24-C38) | 24555714 | 1826.97 M |
| C22 | 7.271 | 0.002 | 24895 | 35786 | | | |
| C24 | 7.780 | -0.005 | 97314 | 114613 | | | |
| C25 | 8.035 | 0.003 | 130426 | 107658 | | | |
| C26 | 8.259 | -0.010 | 151964 | 70024 | | | |
| C28 | 8.729 | 0.003 | 172296 | 80473 | | | |
| C32 | 9.666 | -0.005 | 157574 | 137304 | | | |
| C34 | 10.148 | -0.003 | 118401 | 118486 | CREOSOT (C12-C22) | 703719 | 191.53 |
| Filter Peak | 10.515 | 0.005 | 89376 | 122499 | | | |
| C36 | 10.629 | -0.001 | 76588 | 44026 | | | |
| C38 | 11.104 | 0.005 | 41376 | 48265 | | | |
| C40 | 11.574 | 0.005 | 21132 | 11065 | | | |
| o-terph | 6.311 | -0.003 | 1586 | 1488 | JET-A (C10-C18) | 222897 | 15.02 |
| Triacon Surr | 9.286 | 0.083 | 820344 | 3972016 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1488 | 0.1 | 0.2 |
| Triacantane | 3972016 | 231.7 | 514.9 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 14-MAY-2012 15:27

Client ID:

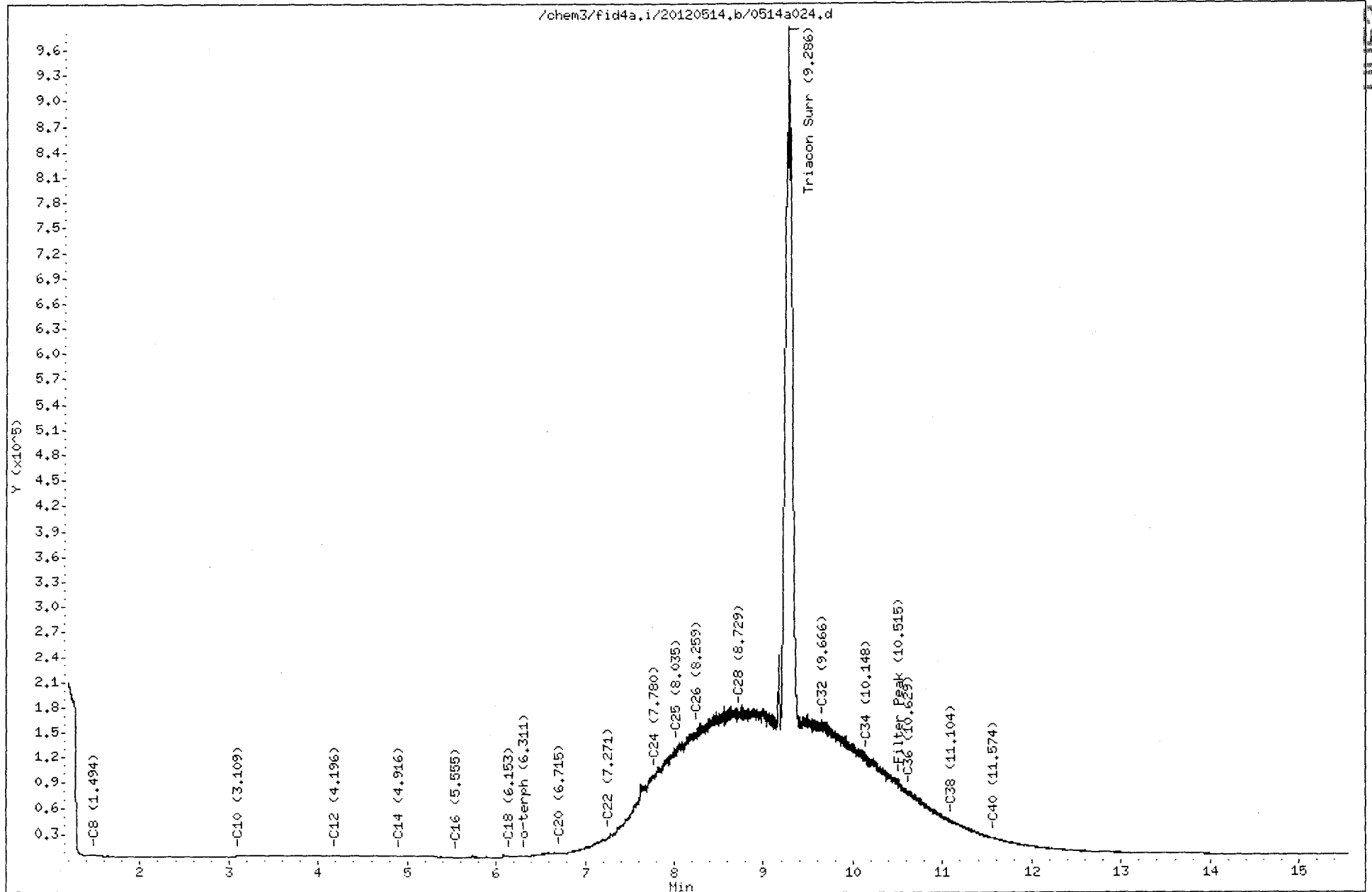
Instrument: fid4a.i

Sample Info: MOIL 2500

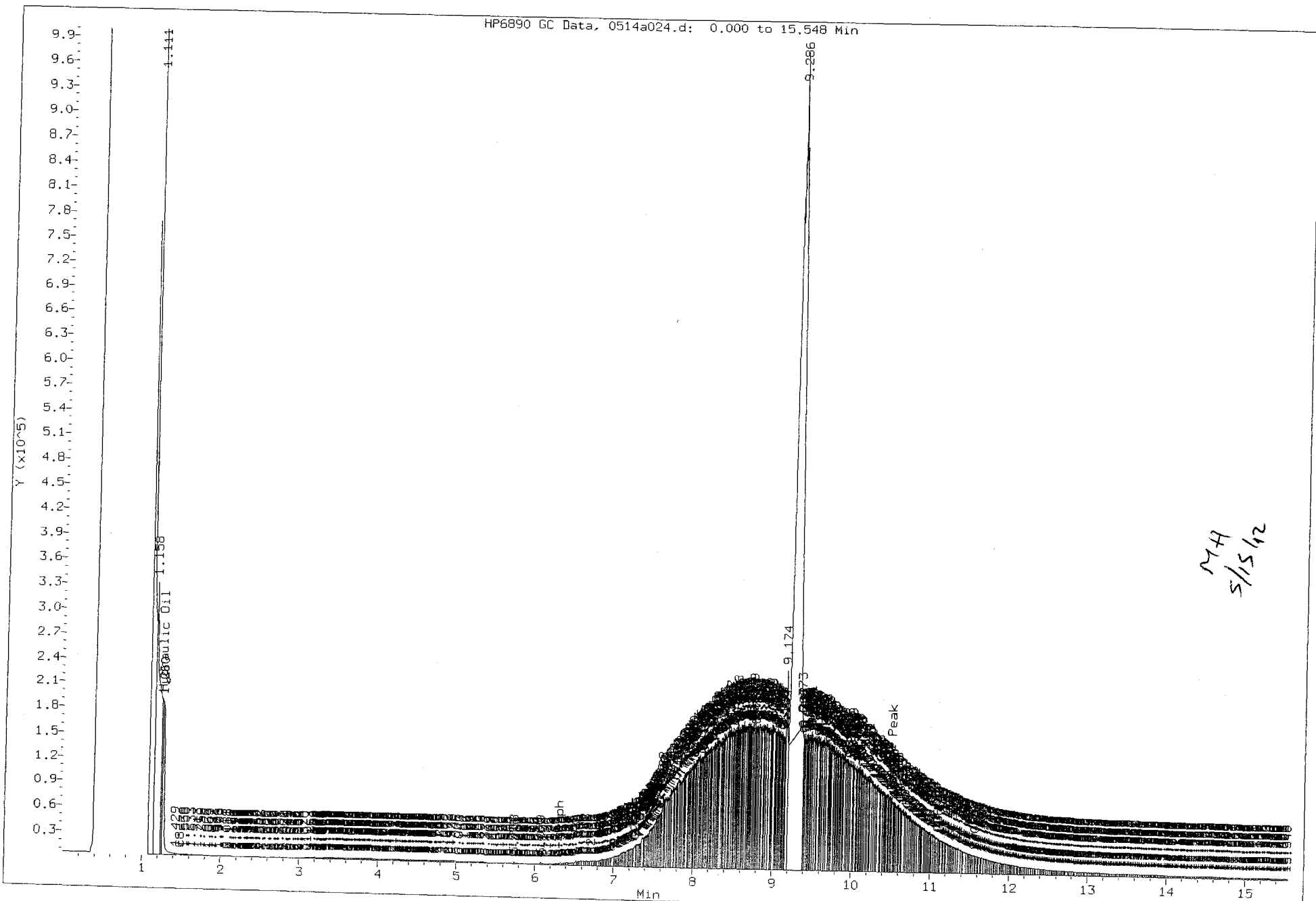
Operator: MH

Column phase: RTX-1

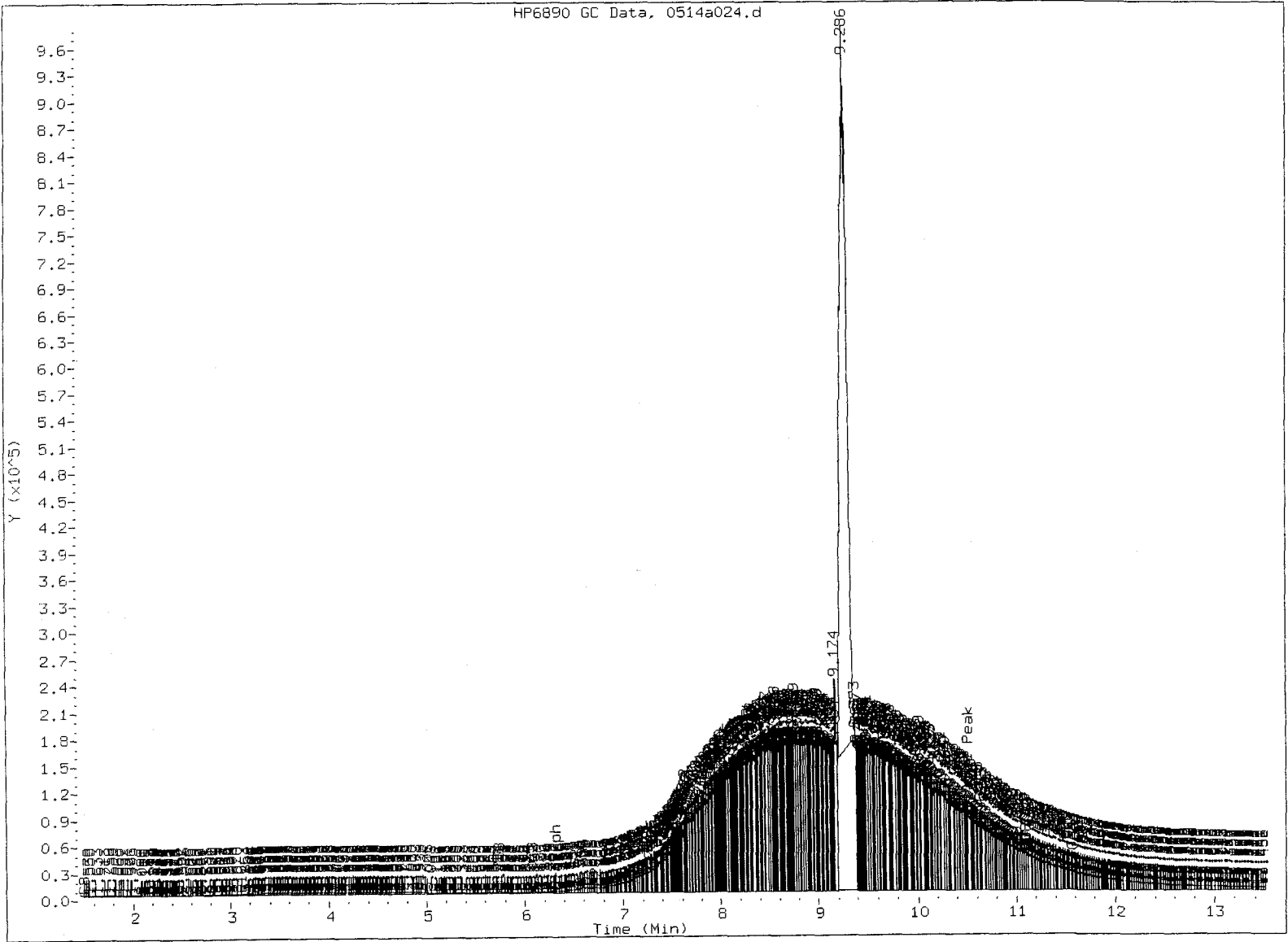
Column diameter: 0.25



Data File: /chem3/fid4a.i/20120514.b/0514a024.d
Injection Date: 14-MAY-2012 15:27
Instrument: fid4a.i
Client Sample ID:



UUS2:01885



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/15/12

Data file: /chem3/fid4a.i/20120514.b/0514a025.d
Method: /chem3/fid4a.i/20120514.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/15/2012
Macro: 14-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:08-FEB-2012 M.Oil:14-MAY-2012

ARI ID: MOIL 5000
Client ID:
Injection: 14-MAY-2012 15:51
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|---------|-------------------|------------|-----------|
| Toluene | 1.256 | -0.013 | 380482 | 638450 | GAS (Tol-C12) | 1117964 | 74.31 |
| C8 | 1.495 | 0.018 | 1815 | 3216 | DIESEL (C12-C24) | 5120641 | 339.59 |
| C10 | 3.111 | -0.012 | 1122 | 1386 | M.OIL (C24-C38) | 48018584 | 4925.17 |
| C12 | 4.181 | -0.002 | 1838 | 1717 | AK-102 (C10-C25) | 7047305 | 394.30 |
| C14 | 4.927 | 0.011 | 2043 | 3970 | AK-103 (C25-C36) | 43227946 | 5571.09 M |
| C16 | 5.553 | -0.004 | 1123 | 1472 | | | |
| C18 | 6.149 | 0.010 | 2517 | 4294 | | | |
| C20 | 6.715 | -0.007 | 11511 | 19794 | MIN.OIL (C24-C38) | 48018584 | 3572.63 M |
| C22 | 7.272 | 0.003 | 49667 | 56701 | | | |
| C24 | 7.775 | -0.010 | 182466 | 194149 | | | |
| C25 | 8.035 | 0.003 | 246542 | 147747 | | | |
| C26 | 8.271 | 0.002 | 298202 | 149365 | | | |
| C28 | 8.729 | 0.003 | 346336 | 231436 | | | |
| C32 | 9.664 | -0.008 | 300923 | 294122 | | | |
| C34 | 10.143 | -0.009 | 246474 | 354341 | CREOSOT (C12-C22) | 1341882 | 365.22 |
| Filter Peak | 10.517 | 0.008 | 181903 | 199078 | | | |
| C36 | 10.625 | -0.005 | 158958 | 154240 | | | |
| C38 | 11.096 | -0.003 | 89959 | 112232 | | | |
| C40 | 11.565 | -0.004 | 44688 | 31350 | | | |
| o-terph | 6.309 | -0.005 | 3477 | 2579 | JET-A (C10-C18) | 307074 | 20.69 |
| Triacon Surr | 9.371 | 0.168 | 828772 | 7069158 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.182 - 7.785) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2579 | 0.1 | 0.3 |
| Triacantane | 7069158 | 412.4 | 916.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 19726.1 | 08-FEB-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 15079.0 | 08-FEB-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 17873.0 | 08-FEB-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120514.b/0514a025.d

Date : 14-MAY-2012 15:51

Client ID:

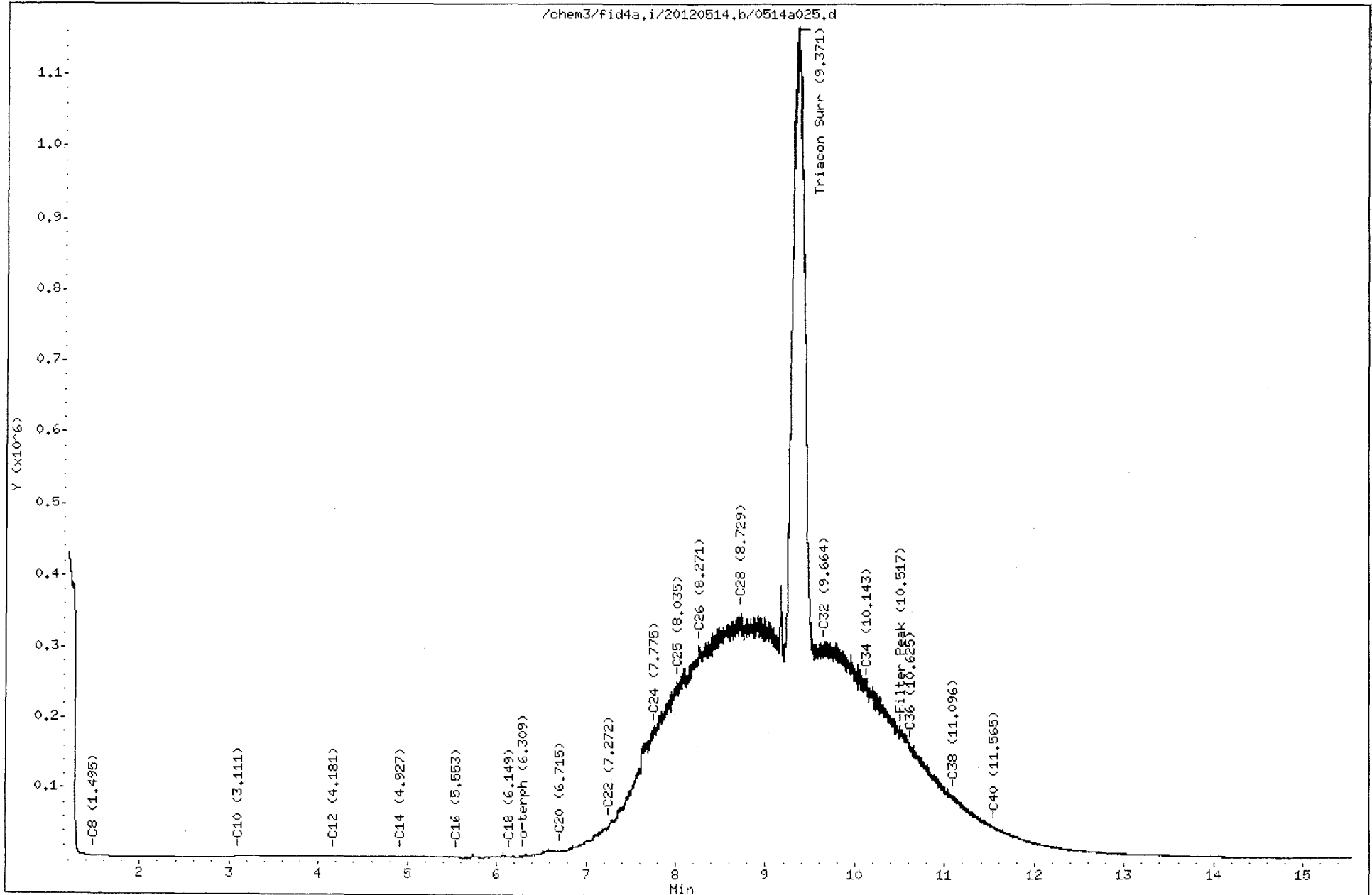
Instrument: fid4a.i

Sample Info: MOIL 5000

Operator: MH

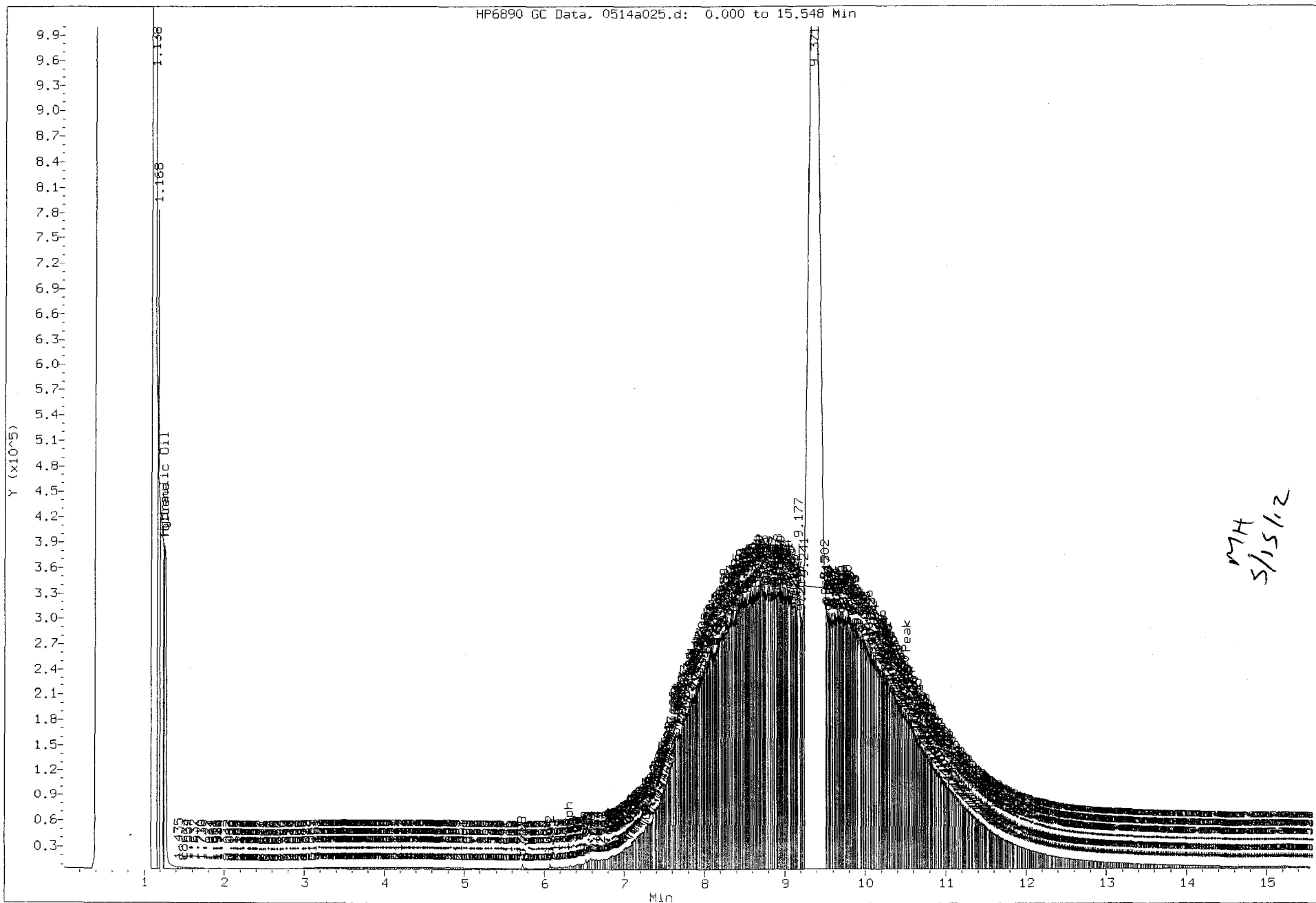
Column phase: RTX-1

Column diameter: 0.25



0052:01888

Data File: /chem3/fid4a.i/20120514.b/0514a025.d
Injection Date: 14-MAY-2012 15:51
Instrument: fid4a.i
Client Sample ID:

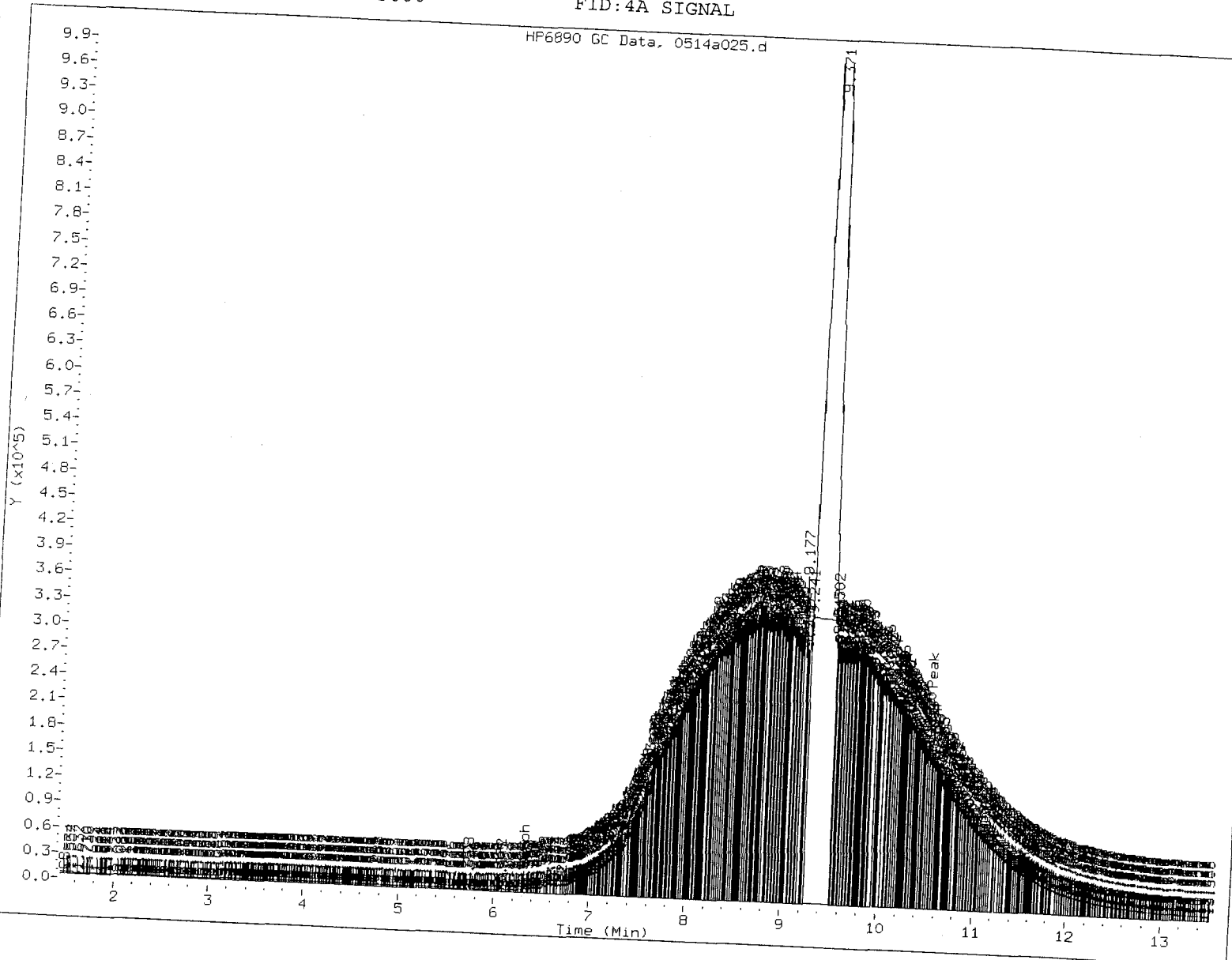


UJ52:01889

FID:4A-2C/RTX-1 MOIL 5000

FID:4A SIGNAL

HP6890 GC Data, 0514a025.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/15/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/16/12

Data file: /chem3/fid4a.i/20120515.b/0515a010.d
Method: /chem3/fid4a.i/20120515.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/16/2012
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: MOIL ICV
Client ID:
Injection: 15-MAY-2012 15:05
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.265 | -0.016 | 33605 | 72200 | GAS (Tol-C12) | 162957 | 10.83 |
| C8 | 1.504 | 0.018 | 747 | 849 | DIESEL (C12-C24) | 558900 | 41.01 |
| C10 | 3.119 | -0.007 | 268 | 204 | M.OIL (C24-C38) | 5260620 | 539.57 |
| C12 | 4.157 | -0.005 | 489 | 220 | AK-102 (C10-C25) | 760500 | 46.96 |
| C14 | 4.923 | 0.002 | 512 | 382 | AK-103 (C25-C36) | 4330909 | 558.15 M |
| C16 | 5.548 | -0.009 | 475 | 318 | | | |
| C18 | 6.126 | -0.016 | 336 | 546 | | | |
| C20 | 6.725 | 0.001 | 996 | 840 | MIN.OIL (C24-C38) | 5260620 | 391.40 M |
| C22 | 7.269 | 0.000 | 5441 | 6062 | | | |
| C24 | 7.775 | -0.006 | 17584 | 20833 | | | |
| C25 | 8.021 | -0.007 | 21001 | 19034 | | | |
| C26 | 8.267 | -0.003 | 24483 | 46620 | | | |
| C28 | 8.733 | 0.008 | 28180 | 50352 | | | |
| C32 | 9.668 | 0.000 | 31114 | 22864 | | | |
| C34 | 10.147 | -0.003 | 30884 | 19872 | CREOSOT (C12-C22) | 180070 | 49.01 |
| Filter Peak | 10.511 | -0.007 | 30371 | 47497 | | | |
| C36 | 10.625 | -0.009 | 29858 | 37630 | | | |
| C38 | 11.097 | -0.008 | 26548 | 18112 | | | |
| C40 | 11.555 | -0.003 | 22508 | 25660 | | | |
| o-terph | 6.322 | 0.010 | 316 | 352 | JET-A (C10-C18) | 79156 | 5.33 |
| Triacon Surr | 9.202 | 0.009 | 448750 | 683302 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.163 - 7.782) AK102(3.13 - 8.03) Jet A(3.13 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.13 - 8.73)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 352 | 0.0 | 0.0 |
| Triacontane | 683302 | 39.9 | 88.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 15-MAY-2012 15:05

Client ID:

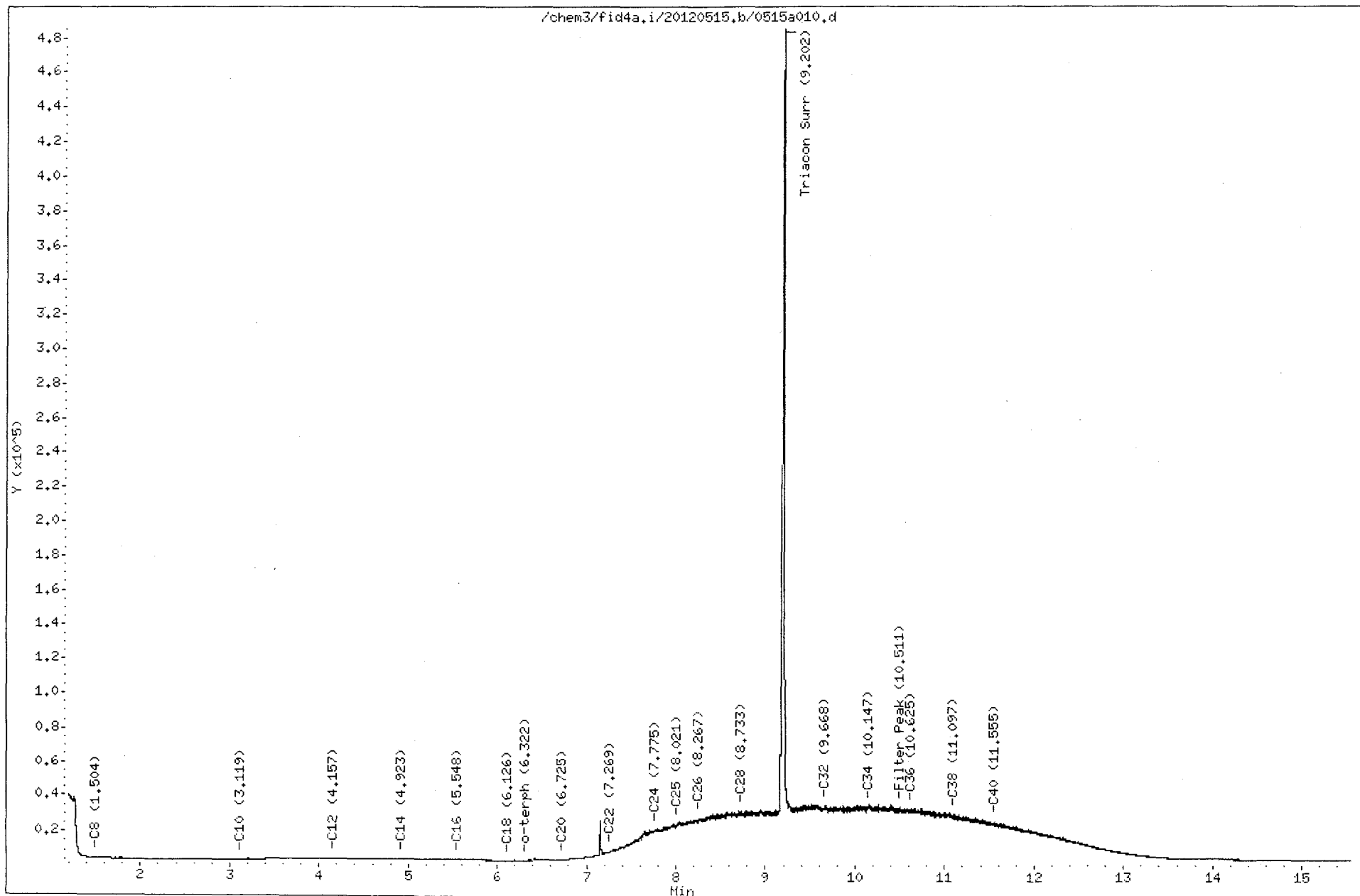
Sample Info: MOIL ICV

Instrument: fid4a.i

Operator: MH

Column phase: RTX-1

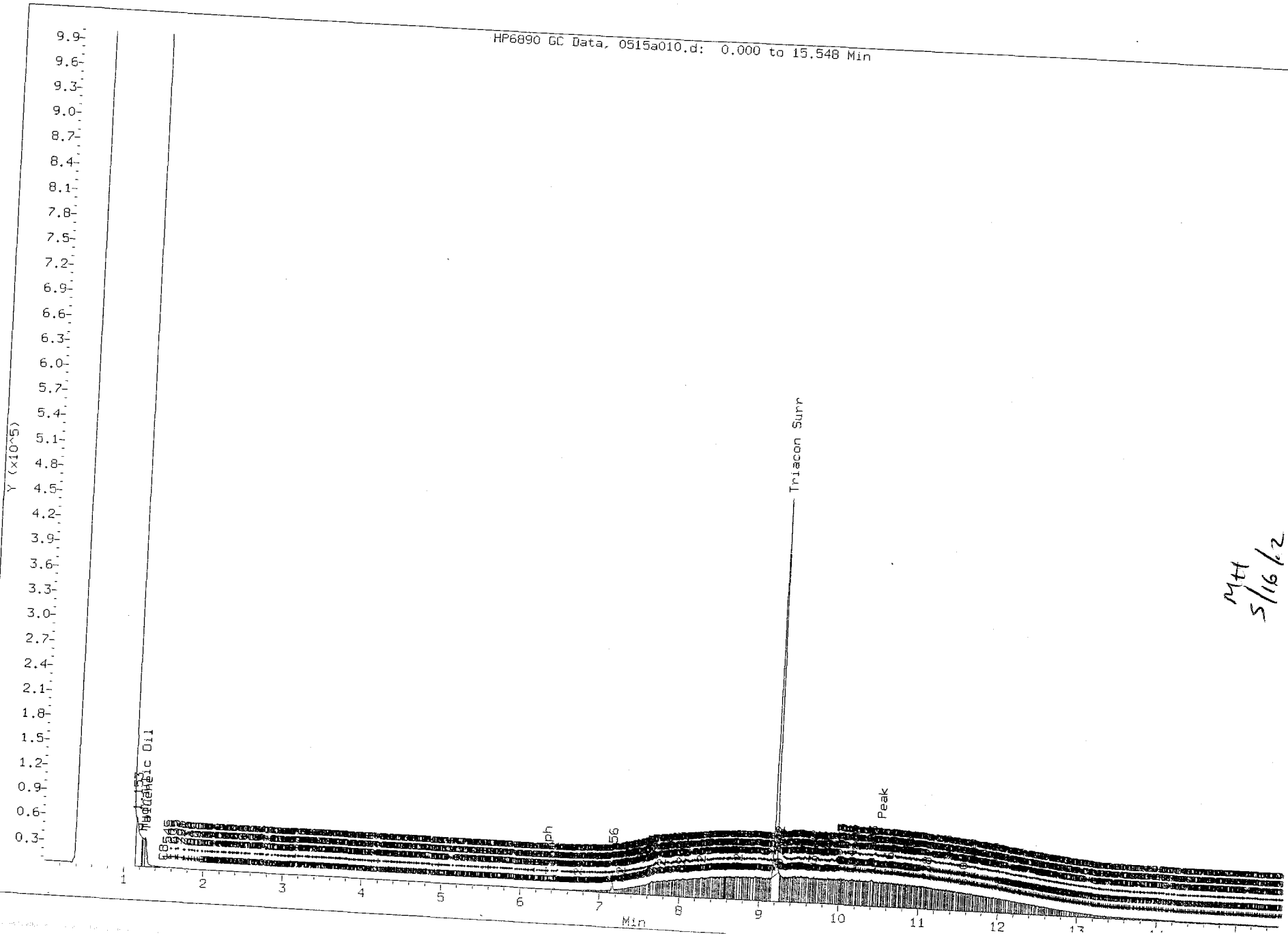
Column diameter: 0.25



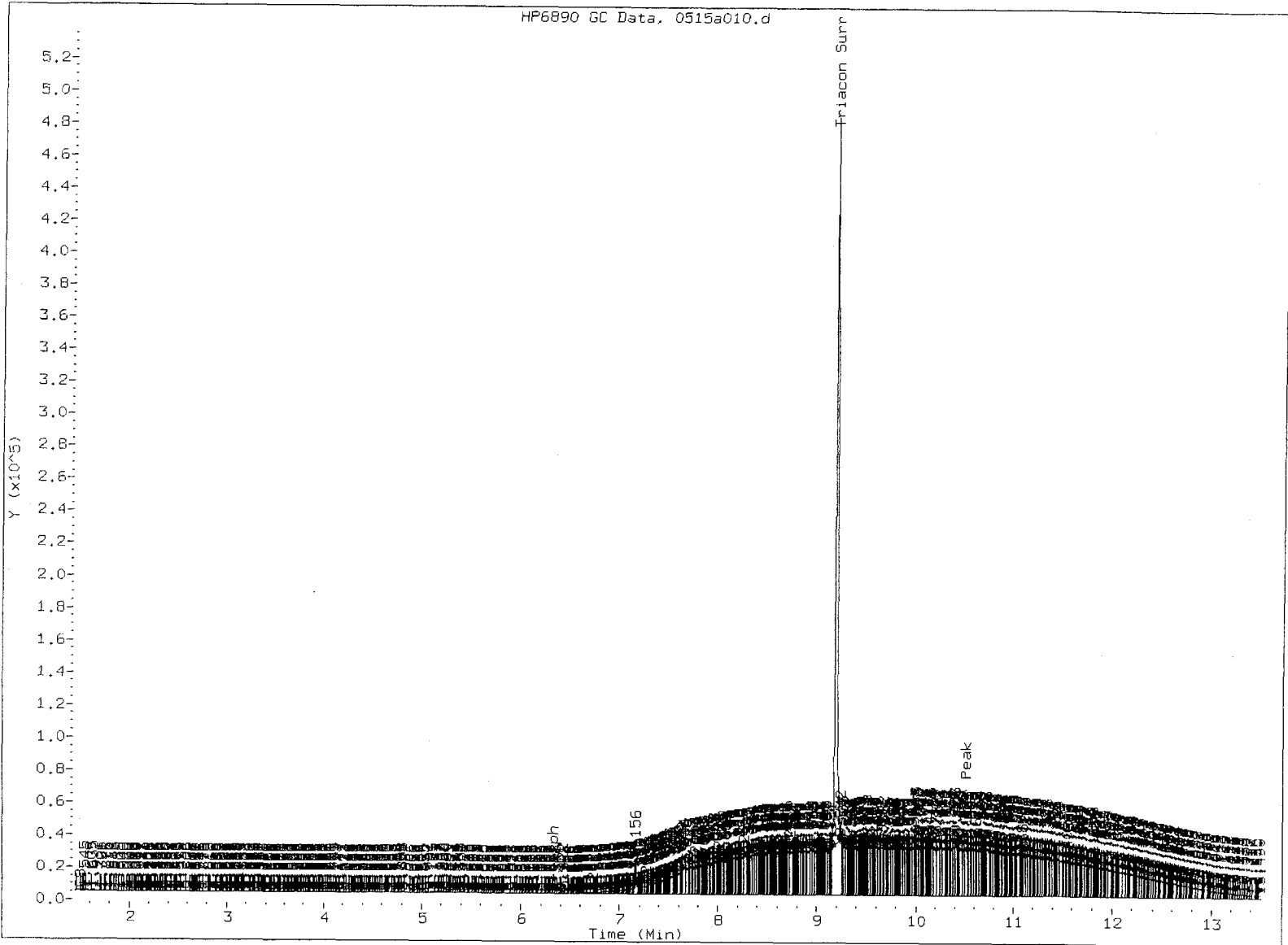
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Data File: /chem3/fid4a.i/20120515.b/0515a010.d
Injection Date: 15-MAY-2012 15:05
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0515a010.d: 0.000 to 15.548 Min



UUS2:01899



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/16/12

**TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: UU52, UU62



GC Analyst Notes / Corrective Action Log

ARI Project ID: UU52 Client ID: Anchor REA, LLC

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): A/S NWTPHD + MOI

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/14/12 MOI 5/15/12 Diesel Analysis Start: 5/22/12

| | | | |
|-----------------------------------|----------------------|----------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / NA | Method Blank In Control? | <u>YES</u> / NO |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | <u>YES</u> / NO |
| CCal Meets RF & %RSD Criteria? | <u>YES</u> / NO | Surrogate Recovery In Control? | <u>YES</u> / NO |
| Manual Integrations for ICal? | <u>YES</u> / NO | Manual Integrations for Samples? | <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] Date: 5/22 5/23/12

Reviewer: [Signature] Date: 5/23/12

Analytical Resources Inc.: Organics Instrument Log

FID-4A Serial No.: US00003247

Date: 5/22/12 Analysis: NWTPHD Analyst: MH

Column 1 Serial No.: 977444 Column Type: RTX-1

Column 2 Serial No.: _____ Column Type: _____

GC Method: TPH ICal Date: 5/15/12 Diesel
5/14/12 MOIL Injection Volume: 10

| IS | Ical/Ccal | ICV |
|------------------|-----------|------------------|
| _____ | 1932-1 | _____ |
| _____ | 1960-1 | _____ |
| _____ | 1972-1 | _____ |
| _____ | 1971-3 | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Document All Maintenance Tasks In StarLIMS

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|------------|-------------------|------------|----|-----------|---------------------|
| 1 | 22-MAY-2012 06:03 | 0522a001.d | 1 | RINSE | |
| 2 | 22-MAY-2012 06:26 | 0522a002.d | 1 | RT | |
| 3 | 22-MAY-2012 06:50 | 0522a003.d | 1 | IB | |
| 4 | 22-MAY-2012 07:13 | 0522a004.d | 1 | DIESEL #1 | |
| 5 | 22-MAY-2012 07:37 | 0522a005.d | 1 | MOIL #1 | |
| 6 | 22-MAY-2012 08:22 | 0522a006.d | 1 | UU52MBS1 | UU52MBS1 |
| 7 | 22-MAY-2012 08:45 | 0522a007.d | 1 | UU52LCSS1 | UU52LCSS1 |
| 8 | 22-MAY-2012 09:09 | 0522a008.d | 1 | UU52A | MS001-SS-120515 |
| 9 | 22-MAY-2012 09:33 | 0522a009.d | 1 | UU52B | MS101-SS-120515 |
| 10 | 22-MAY-2012 09:57 | 0522a010.d | 1 | UU52C | MS002-SS-120515 |
| 11 | 22-MAY-2012 10:21 | 0522a011.d | 1 | UU52D | MS003-SS-120515 |
| 12 | 22-MAY-2012 10:45 | 0522a012.d | 10 | UU74A | |
| 13 | 22-MAY-2012 11:09 | 0522a013.d | 1 | UU74B | |
| 14 | 22-MAY-2012 11:33 | 0522a014.d | 1 | DIESEL #2 | |
| 15 | 22-MAY-2012 11:57 | 0522a015.d | 1 | MOIL #2 | |
| 16 | 22-MAY-2012 12:21 | 0522a016.d | 1 | UU52E | MS004-SS-120515 |
| 17 | 22-MAY-2012 12:45 | 0522a017.d | 1 | UU52F | MS005-SS-120515 |
| 18 | 22-MAY-2012 13:10 | 0522a018.d | 1 | UU52G | MS006-SS-120515 |
| 19 | 22-MAY-2012 13:34 | 0522a019.d | 1 | UU52H | MS007-SS-120515 |
| 20 | 22-MAY-2012 13:59 | 0522a020.d | 1 | UU52I | MS008-SS-120515 |
| 21 | 22-MAY-2012 14:23 | 0522a021.d | 1 | UU52IMS | MS008-SS-120515 MS |
| 22 | 22-MAY-2012 14:48 | 0522a022.d | 1 | UU52IMSD | MS008-SS-120515 MSD |
| 23 | 22-MAY-2012 15:13 | 0522a023.d | 1 | UU52J | MS009-SS-120515 |
| 24 | 22-MAY-2012 15:37 | 0522a024.d | 1 | DIESEL #3 | |
| 25 | 22-MAY-2012 16:01 | 0522a025.d | 1 | MOIL #3 | |
| MH 5/23/12 | | | | | |
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Every line must contain information or be lined out. Make all entries legible.
Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

MH
5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a002.d ARI ID: RT
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 22-MAY-2012 06:26
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|----------|
| Toluene | 1.269 | 0.000 | 303802 | 419974 | GAS (Tol-C12) | 1131951 | 75.24 M |
| C8 | 1.469 | 0.000 | 169239 | 231814 | DIESEL (C12-C24) | 1613720 | 118.41 |
| C10 | 3.125 | 0.000 | 115675 | 159756 | M.OIL (C24-C38) | 1596552 | 163.76 |
| C12 | 4.217 | 0.000 | 35597 | 128229 | AK-102 (C10-C25) | 2041704 | 126.09 M |
| C14 | 4.927 | 0.000 | 95701 | 190633 | AK-103 (C25-C36) | 1507359 | 194.26 |
| C16 | 5.562 | 0.000 | 128335 | 216473 | OR.DIES (C10-C28) | 3007068 | 234.14 M |
| C18 | 6.140 | 0.000 | 116373 | 233099 | OR.MOIL (C28-C40) | 672645 | 89.06 |
| C20 | 6.725 | 0.000 | 154938 | 247685 | JET-A (C10-C18) | 1244235 | 83.83 M |
| C22 | 7.270 | 0.000 | 227169 | 257077 | MIN.OIL (C24-C38) | 1596552 | 118.79 |
| C24 | 7.779 | 0.000 | 304987 | 269884 | | | |
| C25 | 8.026 | 0.000 | 364329 | 357715 | | | |
| C26 | 8.267 | 0.000 | 255334 | 277145 | | | |
| C28 | 8.719 | 0.000 | 313502 | 276848 | | | |
| C32 | 9.656 | 0.000 | 147800 | 192995 | | | |
| C34 | 10.144 | 0.000 | 104266 | 188032 | | | |
| Filter Peak | 10.508 | 0.000 | 448 | 672 | CREOSOT (C12-C22) | 1340854 | 364.94 |
| C36 | 10.629 | 0.000 | 50123 | 130950 | | | |
| C38 | 11.113 | 0.000 | 22039 | 74006 | | | |
| C40 | 11.593 | 0.000 | 7970 | 14879 | | | |
| o-terph | 6.311 | 0.000 | 564292 | 883150 | CRUDE (Tol-C40) | 4384930 | 580.57 M |
| Triacon Surr | 9.189 | 0.000 | 697945 | 823781 | | | |

M Indicates manual integration within range.

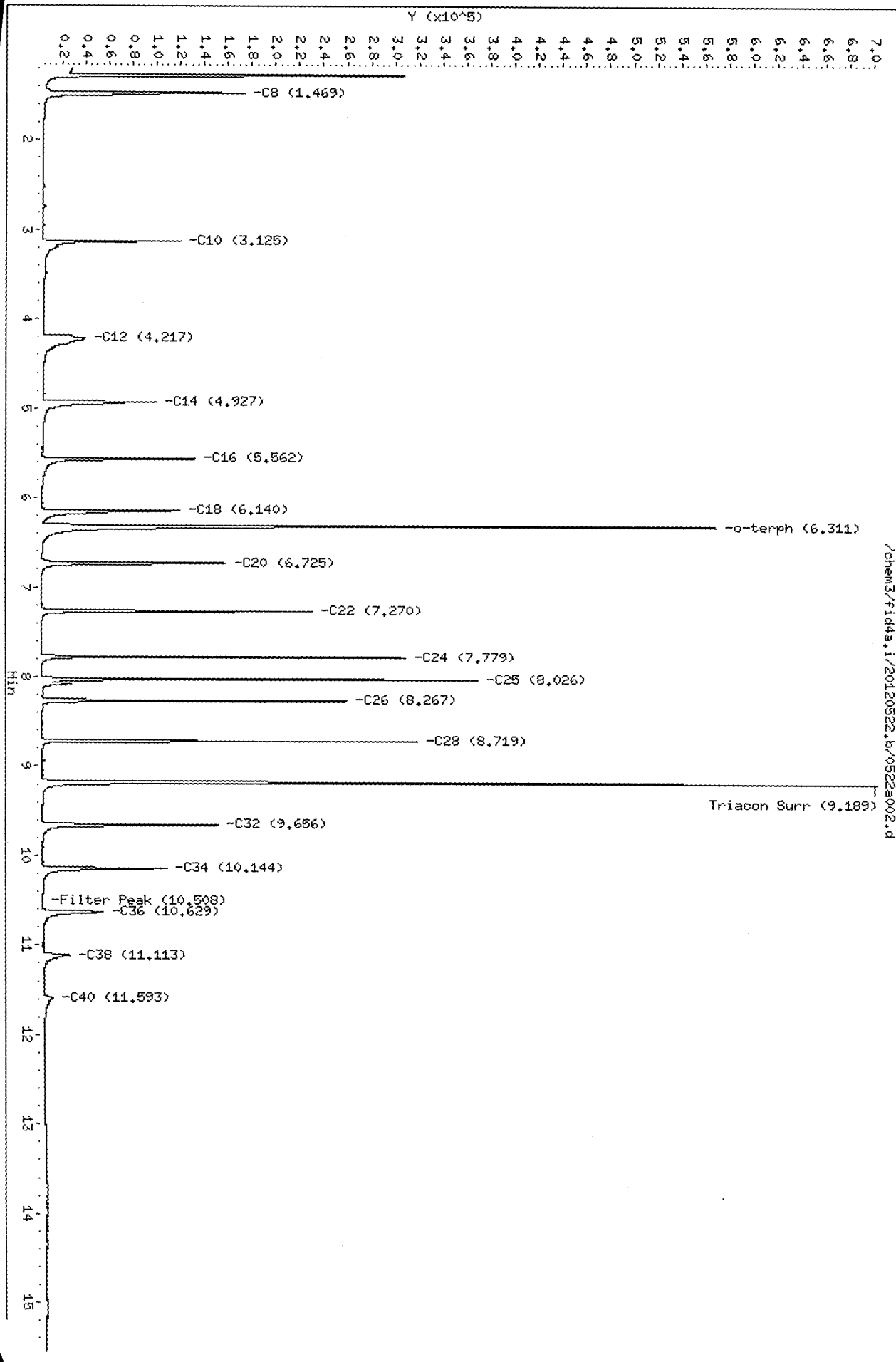
Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 883150 | 51.4 | 114.2 |
| Triacotane | 823781 | 48.1 | 106.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a,1/20120522.b/0522a002.d
Date: 22-May-2012 06:26
Client ID:
Sample Info: RT
Column phase: RTX-1

Instrument: fid4a,1
Operator: NH
Column diameter: 0.25



Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a003.d ARI ID: IB
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 22-MAY-2012 06:50
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.263 | -0.005 | 45144 | 99429 | GAS (Tol-C12) | 202343 | 13.45 |
| C8 | 1.566 | 0.097 | 765 | 1640 | DIESEL (C12-C24) | 189611 | 13.91 |
| C10 | 3.118 | -0.007 | 598 | 668 | M.OIL (C24-C38) | 119465 | 12.25 |
| C12 | 4.180 | -0.037 | 746 | 959 | AK-102 (C10-C25) | 241803 | 14.93 |
| C14 | 4.922 | -0.005 | 785 | 861 | AK-103 (C25-C36) | 104879 | 13.52 |
| C16 | 5.557 | -0.005 | 588 | 646 | OR.DIES (C10-C28) | 249554 | 19.43 |
| C18 | 6.142 | 0.002 | 412 | 349 | OR.MOIL (C28-C40) | 127209 | 16.84 |
| C20 | 6.710 | -0.015 | 2336 | 4795 | JET-A (C10-C18) | 119316 | 8.04 |
| C22 | 7.274 | 0.004 | 252 | 417 | MIN.OIL (C24-C38) | 119465 | 8.89 |
| C24 | 7.772 | -0.007 | 28 | 16 | | | |
| C25 | 8.028 | 0.002 | 394 | 350 | | | |
| C26 | 8.260 | -0.007 | 85 | 35 | | | |
| C28 | 8.709 | -0.011 | 665 | 1106 | | | |
| C32 | 9.653 | -0.003 | 1242 | 1300 | | | |
| C34 | 10.139 | -0.005 | 521 | 468 | | | |
| Filter Peak | 10.499 | -0.008 | 445 | 512 | CREOSOT (C12-C22) | 188167 | 51.21 |
| C36 | 10.628 | -0.001 | 453 | 443 | | | |
| C38 | 11.101 | -0.012 | 511 | 865 | | | |
| C40 | 11.542 | -0.051 | 578 | 660 | | | |
| o-terph | 6.310 | -0.001 | 462580 | 727581 | CRUDE (Tol-C40) | 527355 | 69.82 |
| Triacon Surr | 9.182 | -0.007 | 463399 | 755131 | | | |

M Indicates manual integration within range.

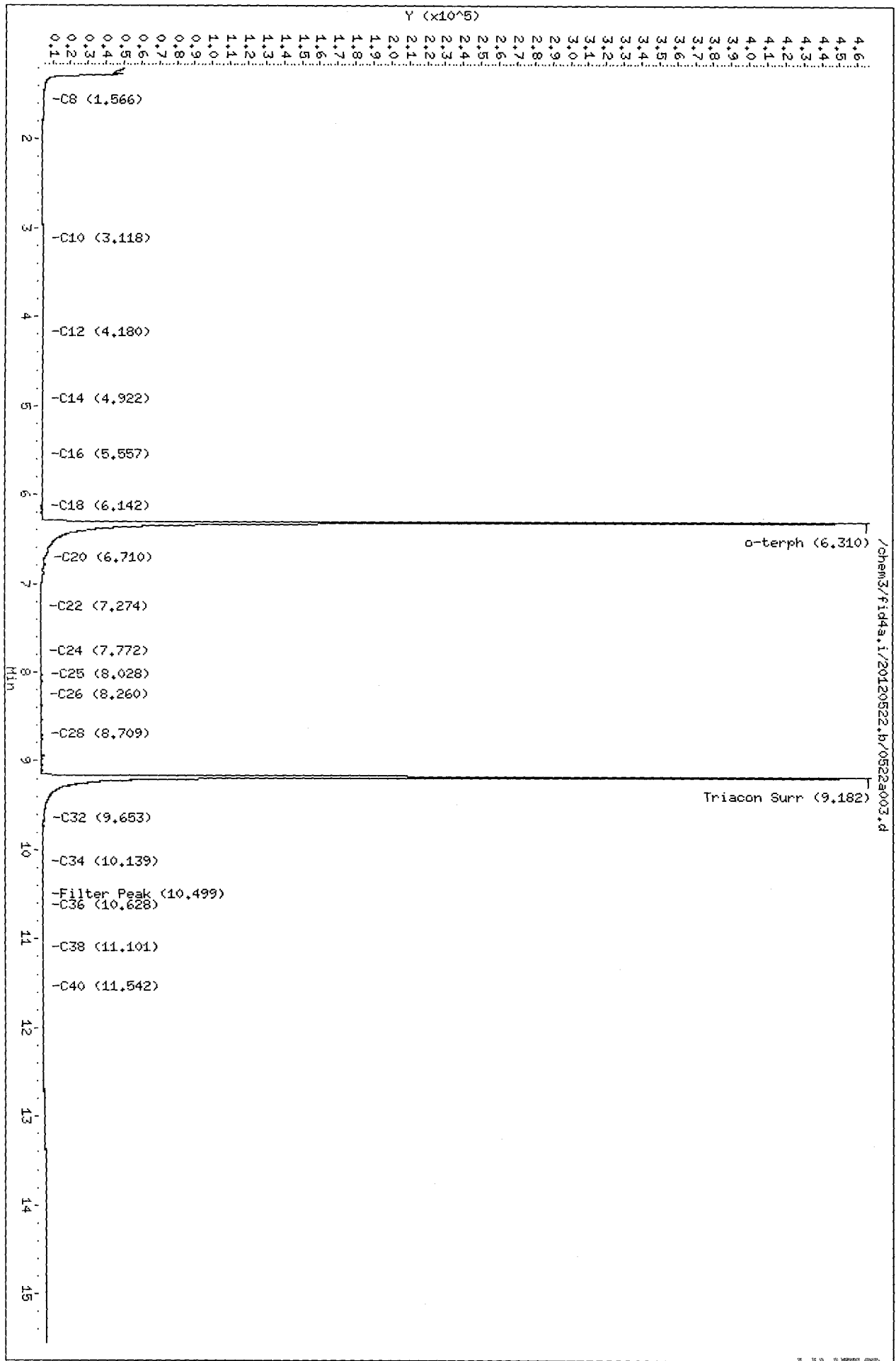
Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 727581 | 42.3 | 94.1 |
| Triacontane | 755131 | 44.1 | 97.9 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4s.i/20120522.b/0522a003.d
 Date : 22-MAY-2012 06:50
 Client ID:
 Sample Info: IB
 Column phase: RTX-1

Instrument: fid4s.i
 Operator: HH
 Column diameter: 0.25



0052 01961

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a004.d

ARI ID: DIESEL #1

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID:

Instrument: fid4a.i

Injection: 22-MAY-2012 07:13

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.297 | 0.028 | 2863 | 3700 | GAS (Tol-C12) | 953110 | 63.36 |
| C8 | 1.459 | -0.010 | 1177 | 1819 | DIESEL (C12-C24) | 3701588 | 271.62 |
| C10 | 3.121 | -0.003 | 4368 | 4391 | M.OIL (C24-C38) | 105414 | 10.81 |
| C12 | 4.212 | -0.005 | 13720 | 19204 | AK-102 (C10-C25) | 4416510 | 272.74 M |
| C14 | 4.938 | 0.011 | 25350 | 35989 | AK-103 (C25-C36) | 79995 | 10.31 |
| C16 | 5.574 | 0.012 | 26997 | 45409 | OR.DIES (C10-C28) | 4480299 | 348.85 M |
| C18 | 6.136 | -0.004 | 64059 | 81352 | OR.MOIL (C28-C40) | 24069 | 3.19 |
| C20 | 6.729 | 0.004 | 28991 | 84490 | JET-A (C10-C18) | 3270989 | 220.39 |
| C22 | 7.277 | 0.007 | 6995 | 3561 | MIN.OIL (C24-C38) | 105414 | 7.84 |
| C24 | 7.786 | 0.007 | 3237 | 3433 | | | |
| C25 | 8.022 | -0.005 | 2112 | 710 | | | |
| C26 | 8.272 | 0.005 | 2181 | 1989 | | | |
| C28 | 8.726 | 0.007 | 885 | 1877 | | | |
| C32 | 9.641 | -0.016 | 118 | 135 | | | |
| C34 | 10.140 | -0.004 | 41 | 29 | | | |
| Filter Peak | 10.513 | 0.005 | 21 | 12 | CREOSOT (C12-C22) | 3566932 | 970.82 M |
| C36 | 10.624 | -0.005 | 25 | 33 | | | |
| C38 | 11.118 | 0.004 | 94 | 71 | | | |
| C40 | 11.591 | -0.002 | 189 | 104 | | | |
| o-terph | 6.312 | 0.001 | 702669 | 830385 | CRUDE (Tol-C40) | 4764672 | 630.85 M |
| Triacon Surr | 9.190 | 0.001 | 220 | 249 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 830385 | 48.3 | 107.4 |
| Triacotane | 249 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 07:13

Client ID:

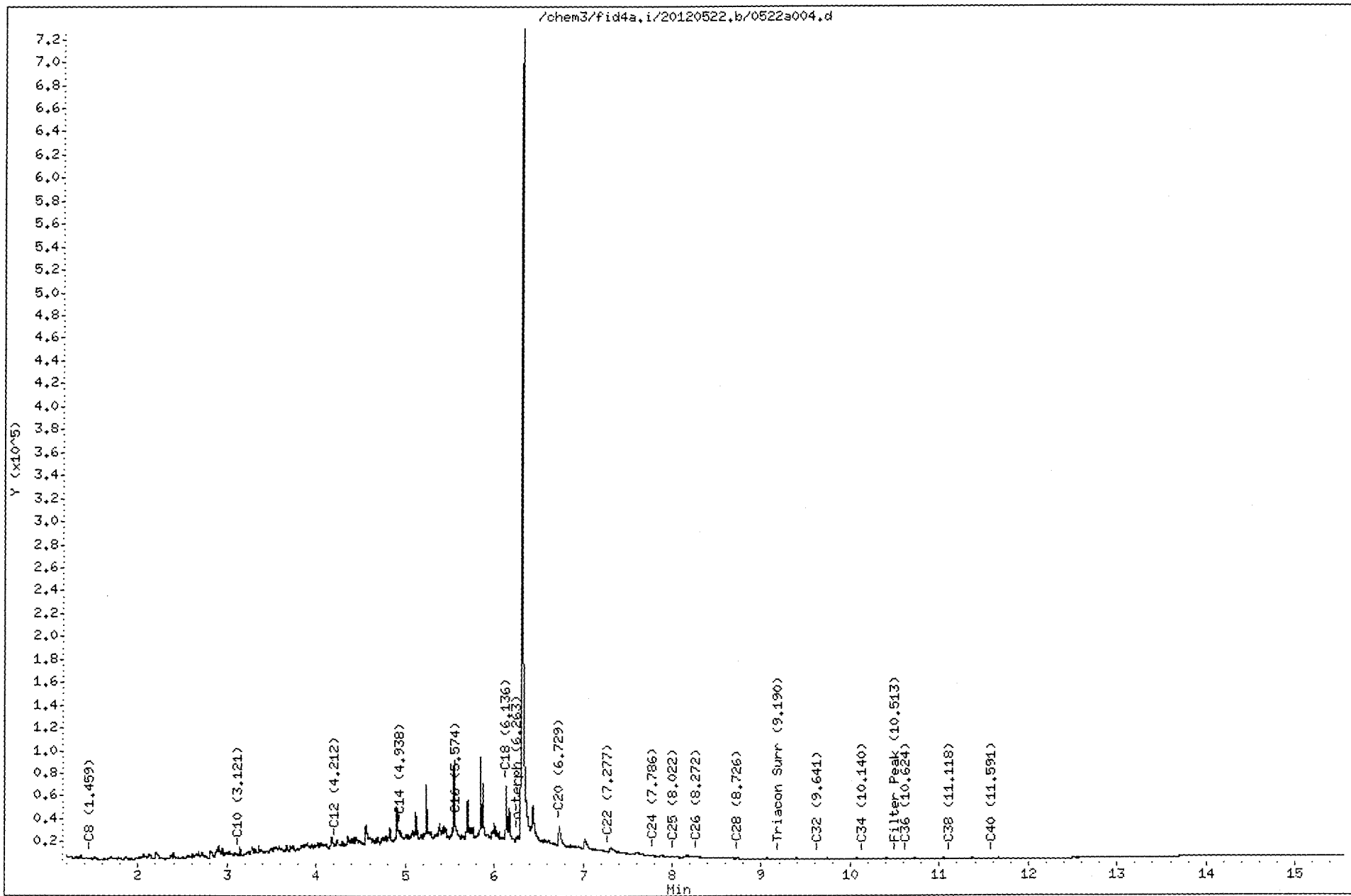
Instrument: fid4a.i

Sample Info: DIESEL #1

Operator: MH

Column phase: RTX-1

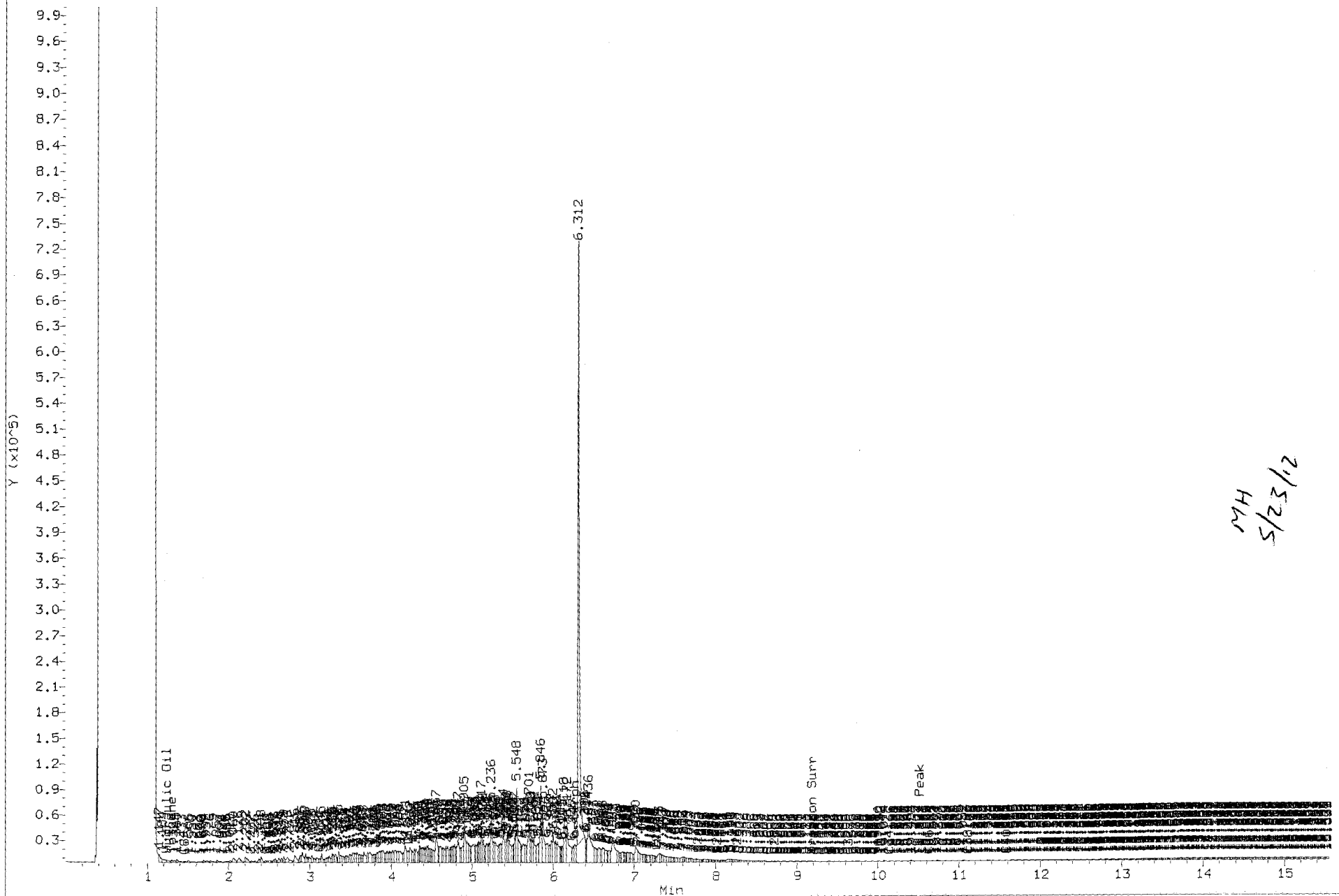
Column diameter: 0.25



0522-01903

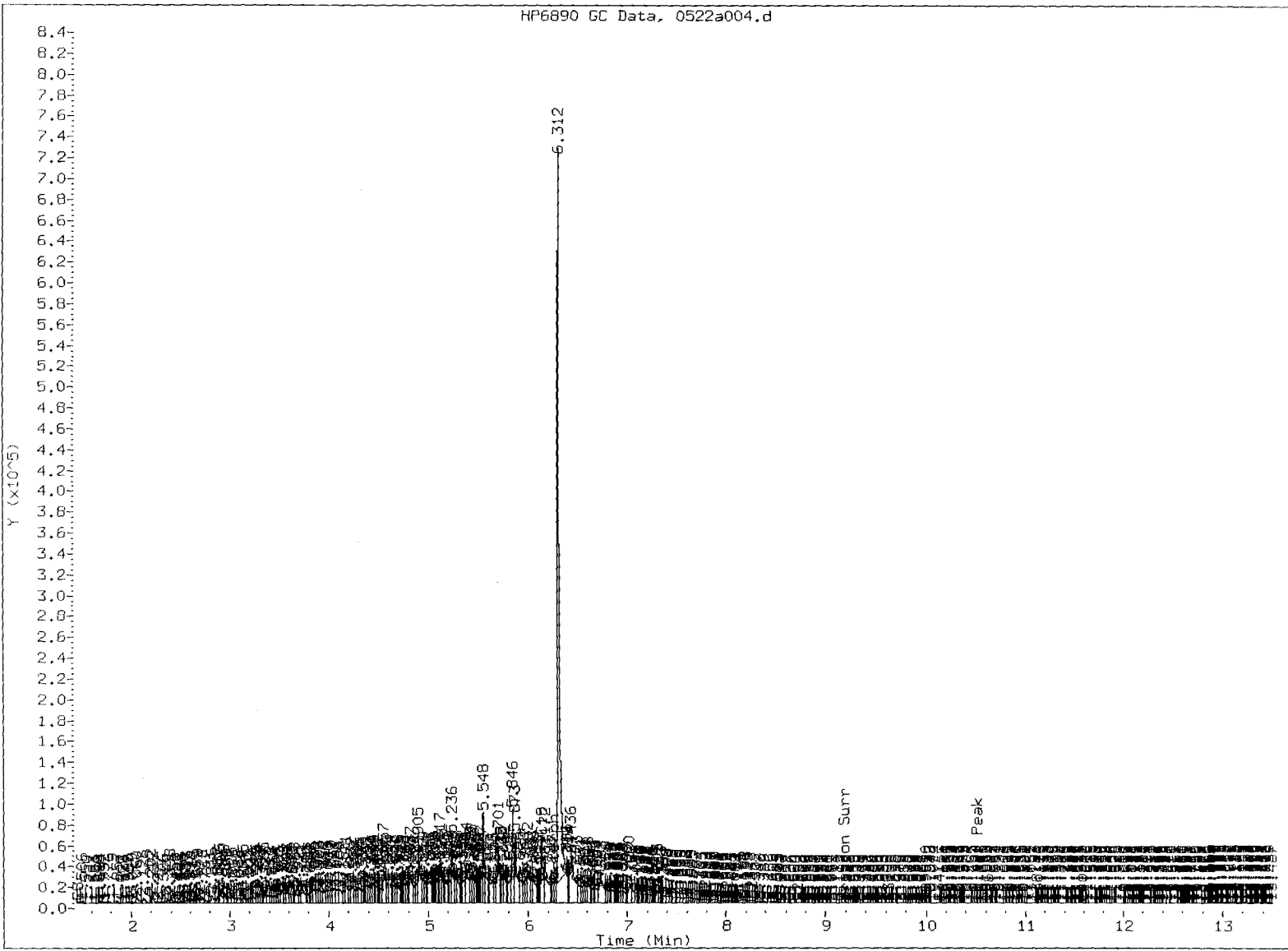
Data File: /chem3/fid4a.i/20120522.b/0522a004.d
Injection Date: 22-MAY-2012 07:13
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0522a004.d: 0.000 to 15.548 Min



UUS2:01904

HP6890 GC Data, 0522a004.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a005.d ARI ID: MOIL #1
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 22-MAY-2012 07:37
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.263 | -0.006 | 34698 | 76775 | GAS (Tol-C12) | 129878 | 8.63 |
| C8 | 1.529 | 0.060 | 837 | 1287 | DIESEL (C12-C24) | 538105 | 39.49 |
| C10 | 3.124 | -0.001 | 455 | 472 | M.OIL (C24-C38) | 4707921 | 482.88 |
| C12 | 4.229 | 0.012 | 540 | 491 | AK-102 (C10-C25) | 782708 | 48.34 |
| C14 | 4.930 | 0.003 | 507 | 728 | AK-103 (C25-C36) | 4237450 | 546.11 M |
| C16 | 5.571 | 0.009 | 466 | 371 | OR.DIES (C10-C28) | 2200276 | 171.32 |
| C18 | 6.110 | -0.030 | 803 | 2473 | OR.MOIL (C28-C40) | 3228096 | 427.41 M |
| C20 | 6.728 | 0.003 | 959 | 685 | JET-A (C10-C18) | 85185 | 5.74 |
| C22 | 7.272 | 0.002 | 4817 | 5506 | MIN.OIL (C24-C38) | 4707921 | 350.27 M |
| C24 | 7.773 | -0.006 | 19758 | 13275 | | | |
| C25 | 8.026 | 0.000 | 26672 | 25850 | | | |
| C26 | 8.271 | 0.004 | 30867 | 7909 | | | |
| C28 | 8.728 | 0.009 | 35222 | 39866 | | | |
| C32 | 9.656 | 0.000 | 29353 | 55746 | | | |
| C34 | 10.143 | 0.000 | 20597 | 8909 | | | |
| Filter Peak | 10.512 | 0.004 | 14486 | 10864 | CREOSOT (C12-C22) | 156002 | 42.46 |
| C36 | 10.638 | 0.009 | 12785 | 13476 | | | |
| C38 | 11.119 | 0.006 | 7401 | 1887 | | | |
| C40 | 11.585 | -0.008 | 4372 | 5989 | | | |
| o-terph | 6.318 | 0.007 | 401 | 124 | CRUDE (Tol-C40) | 5522743 | 731.22 M |
| Triacon Surr | 9.191 | 0.002 | 661094 | 756798 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 124 | 0.0 | 0.0 |
| Triacotane | 756798 | 44.1 | 98.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 07:37

Client ID:

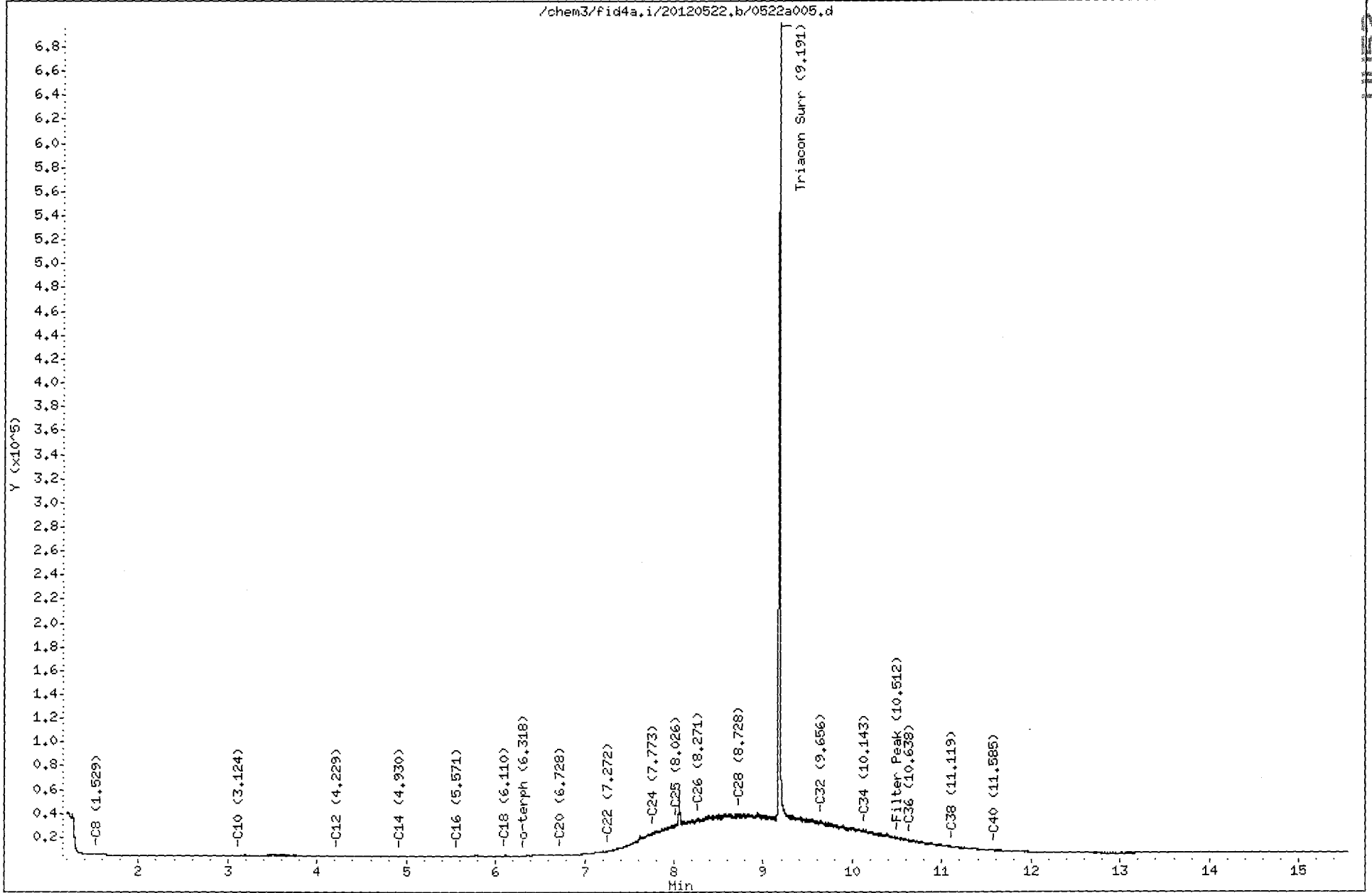
Instrument: fid4a.i

Sample Info: MOIL #1

Operator: MH

Column phase: RTX-1

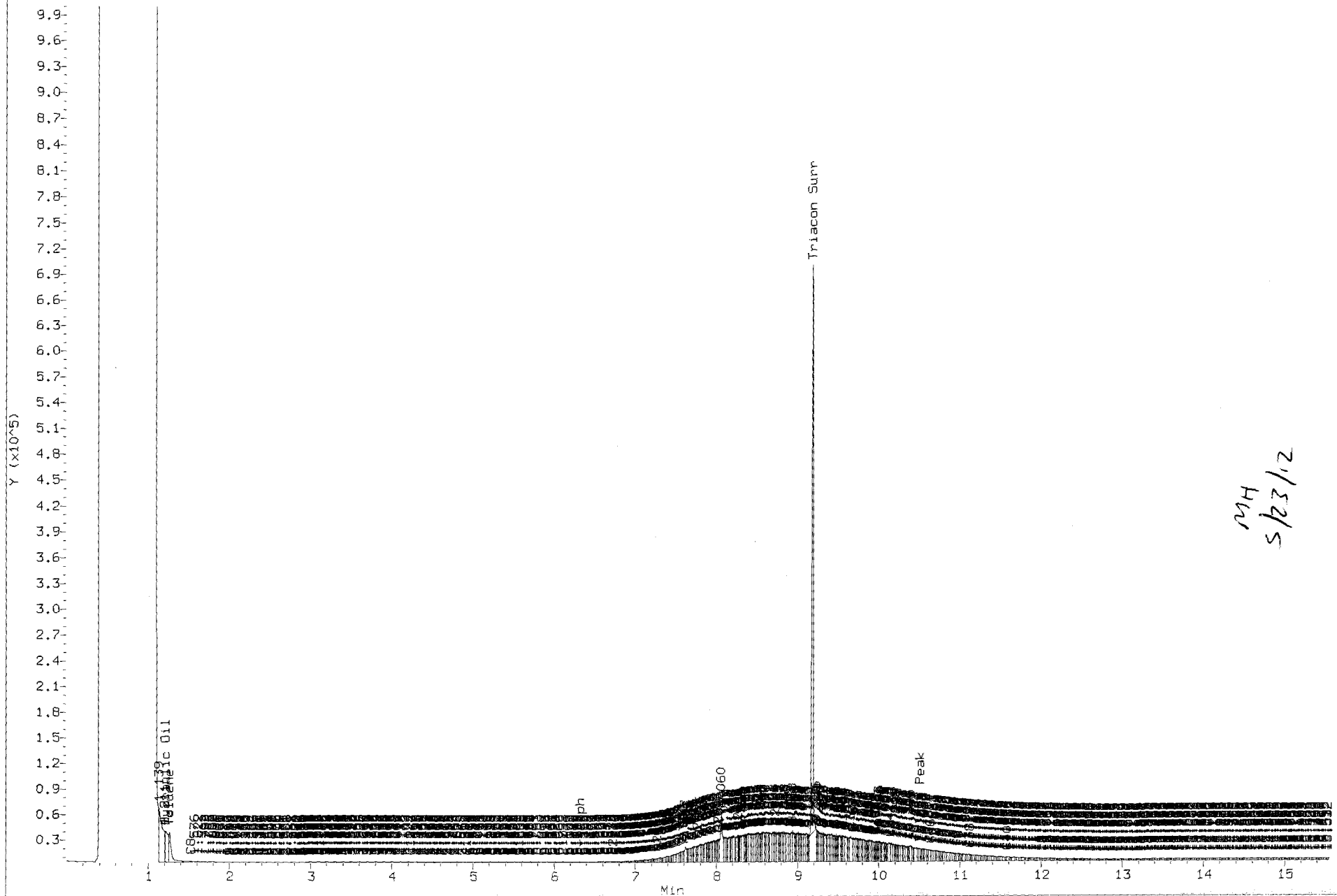
Column diameter: 0.25



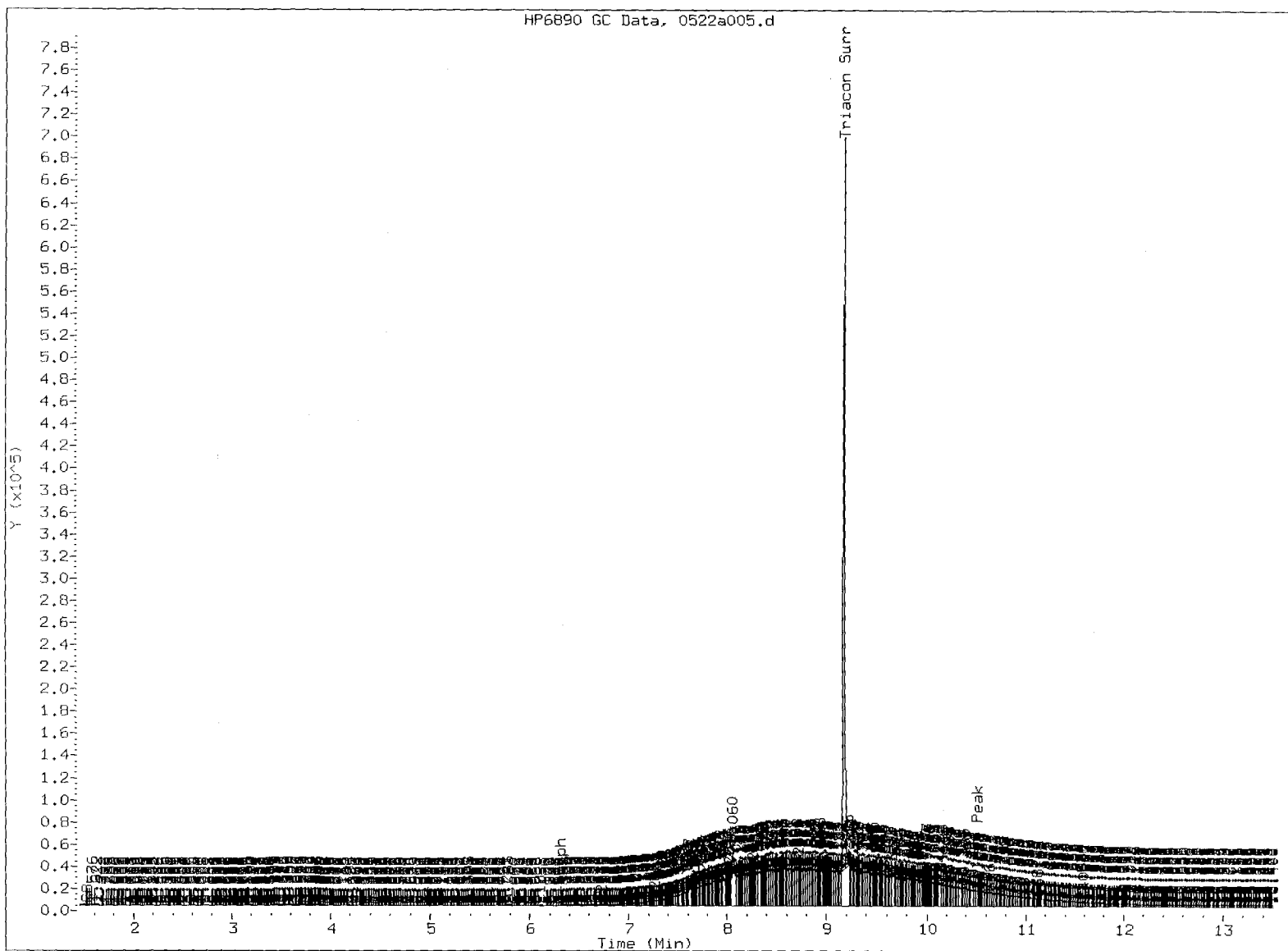
0522-01907

Data File: /chem3/fid4a.i/20120522.b/0522a005.d
Injection Date: 22-MAY-2012 07:37
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0522a005.d: 0.000 to 15.548 Min



0522:01908



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a006.d

ARI ID: UU52MBS1

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: UU52MBS1

Instrument: fid4a.i

Injection: 22-MAY-2012 08:22

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.285 | 0.016 | 3882 | 8611 | GAS (Tol-C12) | 84490 | 5.62 |
| C8 | 1.467 | -0.002 | 1107 | 2530 | DIESEL (C12-C24) | 222123 | 16.30 |
| C10 | 3.130 | 0.006 | 211 | 270 | M.OIL (C24-C38) | 208894 | 21.43 |
| C12 | 4.204 | -0.013 | 502 | 1390 | AK-102 (C10-C25) | 252133 | 15.57 |
| C14 | 4.934 | 0.007 | 774 | 1008 | AK-103 (C25-C36) | 186602 | 24.05 |
| C16 | 5.572 | 0.011 | 1172 | 1165 | OR.DIES (C10-C28) | 288920 | 22.50 |
| C18 | 6.124 | -0.016 | 1660 | 1991 | OR.MOIL (C28-C40) | 177921 | 23.56 |
| C20 | 6.727 | 0.001 | 2148 | 2161 | JET-A (C10-C18) | 140734 | 9.48 |
| C22 | 7.265 | -0.005 | 1364 | 1872 | MIN.OIL (C24-C38) | 208894 | 15.54 |
| C24 | 7.783 | 0.004 | 556 | 162 | | | |
| C25 | 8.029 | 0.002 | 1633 | 2027 | | | |
| C26 | 8.276 | 0.009 | 856 | 863 | | | |
| C28 | 8.711 | -0.009 | 3202 | 4596 | | | |
| C32 | 9.649 | -0.008 | 1045 | 1442 | | | |
| C34 | 10.150 | 0.006 | 475 | 894 | | | |
| Filter Peak | 10.514 | 0.007 | 381 | 354 | CREOSOT (C12-C22) | 201380 | 54.81 |
| C36 | 10.616 | -0.013 | 363 | 377 | | | |
| C38 | 11.118 | 0.004 | 345 | 585 | | | |
| C40 | 11.601 | 0.008 | 336 | 147 | | | |
| o-terph | 6.313 | 0.001 | 452925 | 741407 | CRUDE (Tol-C40) | 526560 | 69.72 |
| Triacon Surr | 9.187 | -0.002 | 436131 | 691590 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 741407 | 43.1 | 95.9 |
| Triacotane | 691590 | 40.3 | 89.7 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52:01910

Date : 22-MAY-2012 08:22

Client ID: UU52HBS1

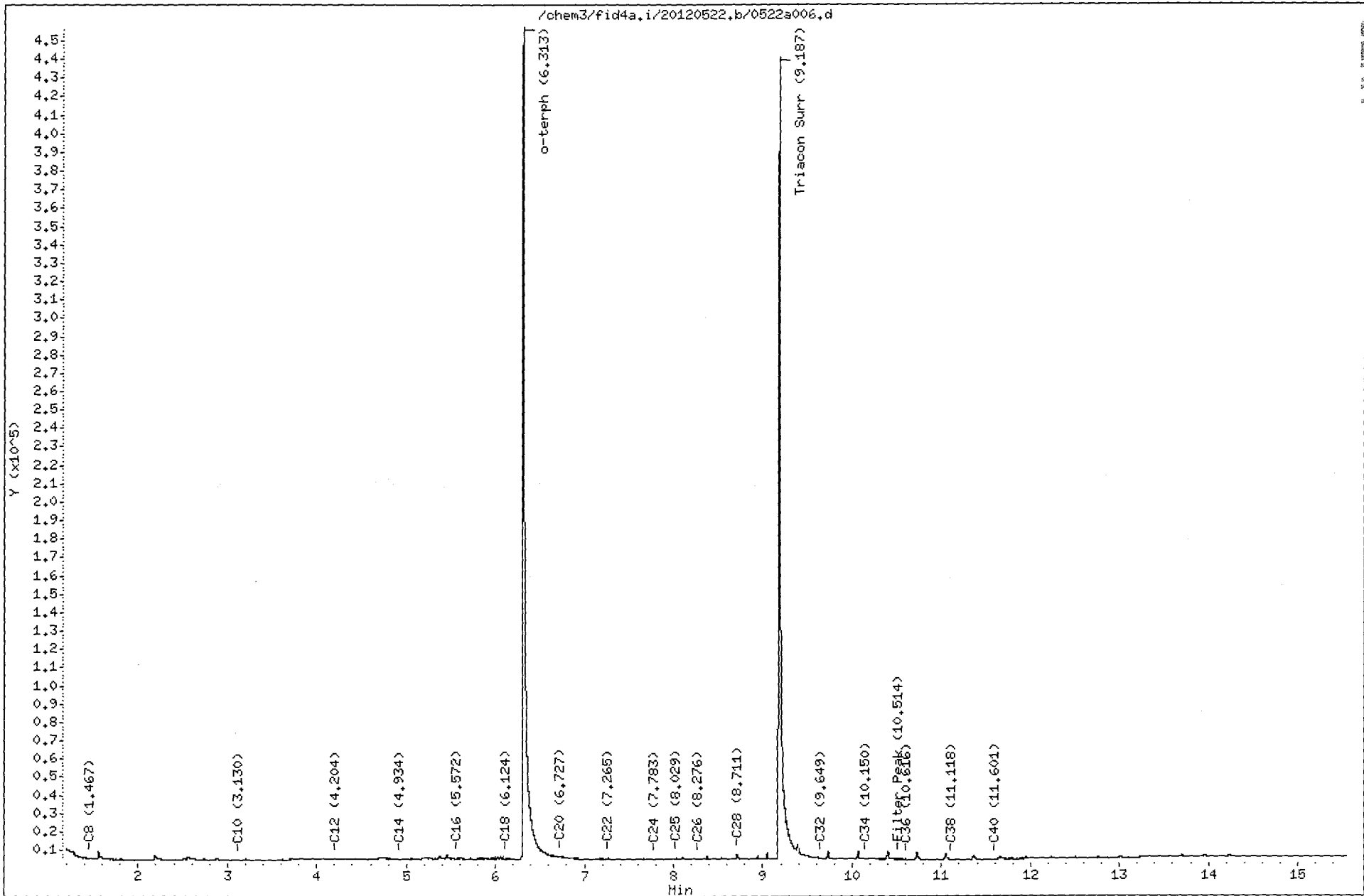
Sample Info: UU52HBS1

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01911

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a007.d

ARI ID: UUS2LCSS1

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: UUS2LCSS1

Instrument: fid4a.i

Injection: 22-MAY-2012 08:45

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-----------|
| Toluene | 1.269 | 0.000 | 4707 | 4482 | GAS (Tol-C12) | 4377320 | 290.97 |
| C8 | 1.458 | -0.011 | 2355 | 2740 | DIESEL (C12-C24) | 16417801 | 1204.71 |
| C10 | 3.119 | -0.006 | 86935 | 73440 | M.OIL (C24-C38) | 290982 | 29.85 |
| C12 | 4.217 | 0.000 | 54826 | 47932 | AK-102 (C10-C25) | 19585957 | 1209.53 M |
| C14 | 4.924 | -0.003 | 100668 | 128856 | AK-103 (C25-C36) | 234529 | 30.23 |
| C16 | 5.543 | -0.019 | 494967 | 530459 | OR.DIES (C10-C28) | 19714306 | 1535.02 M |
| C18 | 6.139 | -0.001 | 428884 | 431969 | OR.MOIL (C28-C40) | 109669 | 14.52 |
| C20 | 6.713 | -0.012 | 289664 | 378211 | JET-A (C10-C18) | 14335866 | 965.90 |
| C22 | 7.263 | -0.007 | 106403 | 243378 | MIN.OIL (C24-C38) | 290982 | 21.65 |
| C24 | 7.798 | 0.019 | 25350 | 83921 | | | |
| C25 | 8.019 | -0.008 | 5551 | 1512 | | | |
| C26 | 8.276 | 0.009 | 6384 | 14360 | | | |
| C28 | 8.718 | -0.002 | 2263 | 4335 | | | |
| C32 | 9.657 | 0.000 | 804 | 264 | | | |
| C34 | 10.150 | 0.006 | 273 | 377 | | | |
| Filter Peak | 10.526 | 0.018 | 135 | 53 | CREOSOT (C12-C22) | 15752594 | 4287.41 M |
| C36 | 10.624 | -0.005 | 135 | 137 | | | |
| C38 | 11.128 | 0.014 | 40 | 19 | | | |
| C40 | 11.601 | 0.008 | 59 | 42 | | | |
| o-terph | 6.315 | 0.003 | 878948 | 728183 | CRUDE (Tol-C40) | 21087333 | 2792.01 M |
| Triacon Surr | 9.180 | -0.009 | 411427 | 697810 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 728183 | 42.4 | 94.2 |
| Triacontane | 697810 | 40.7 | 90.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52: 01912

Date : 22-MAY-2012 08:45

Client ID: UU52LCSS1

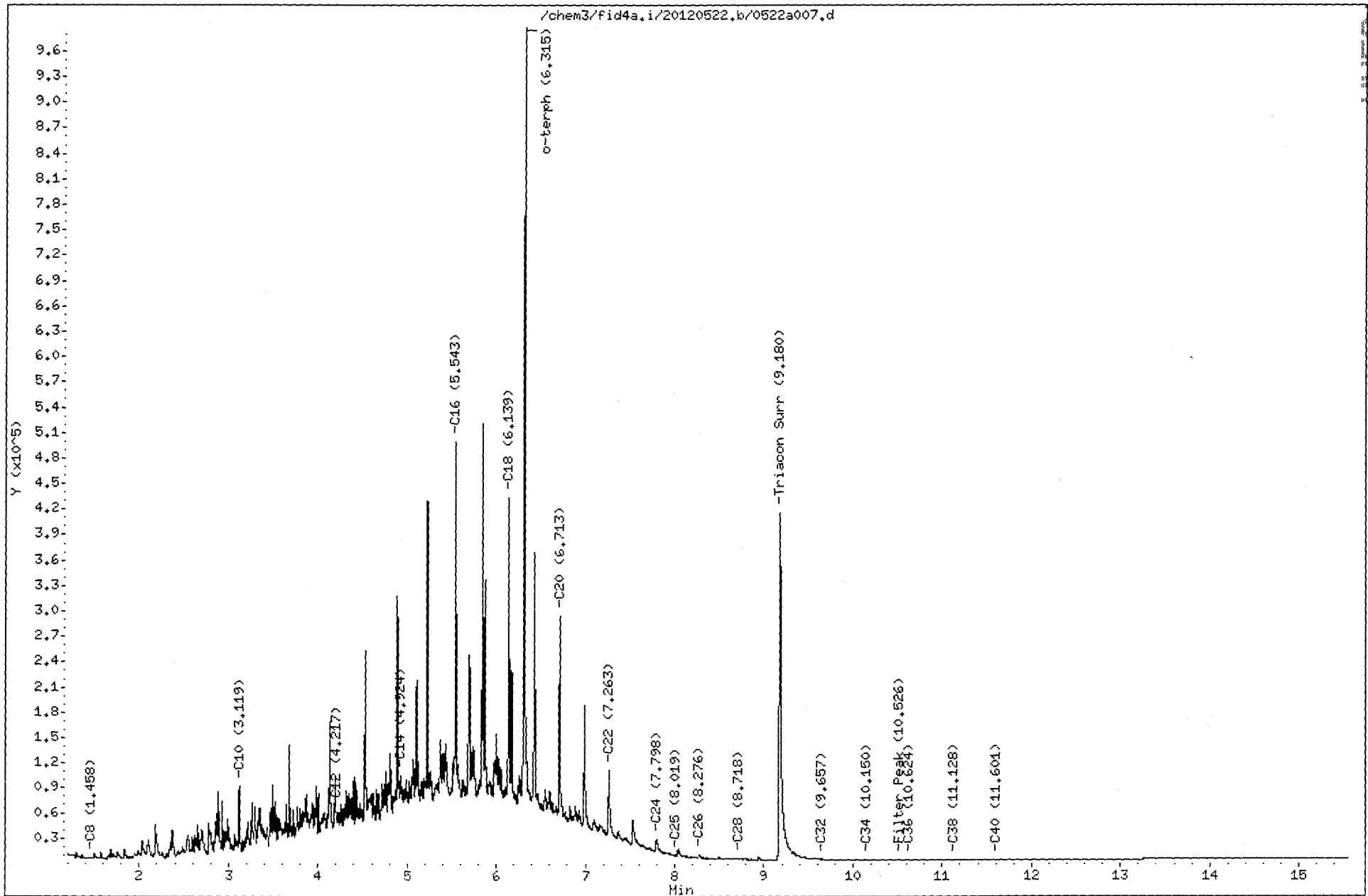
Sample Info: UU52LCSS1

Column phase: RTX-1

Instrument: fid4a.i

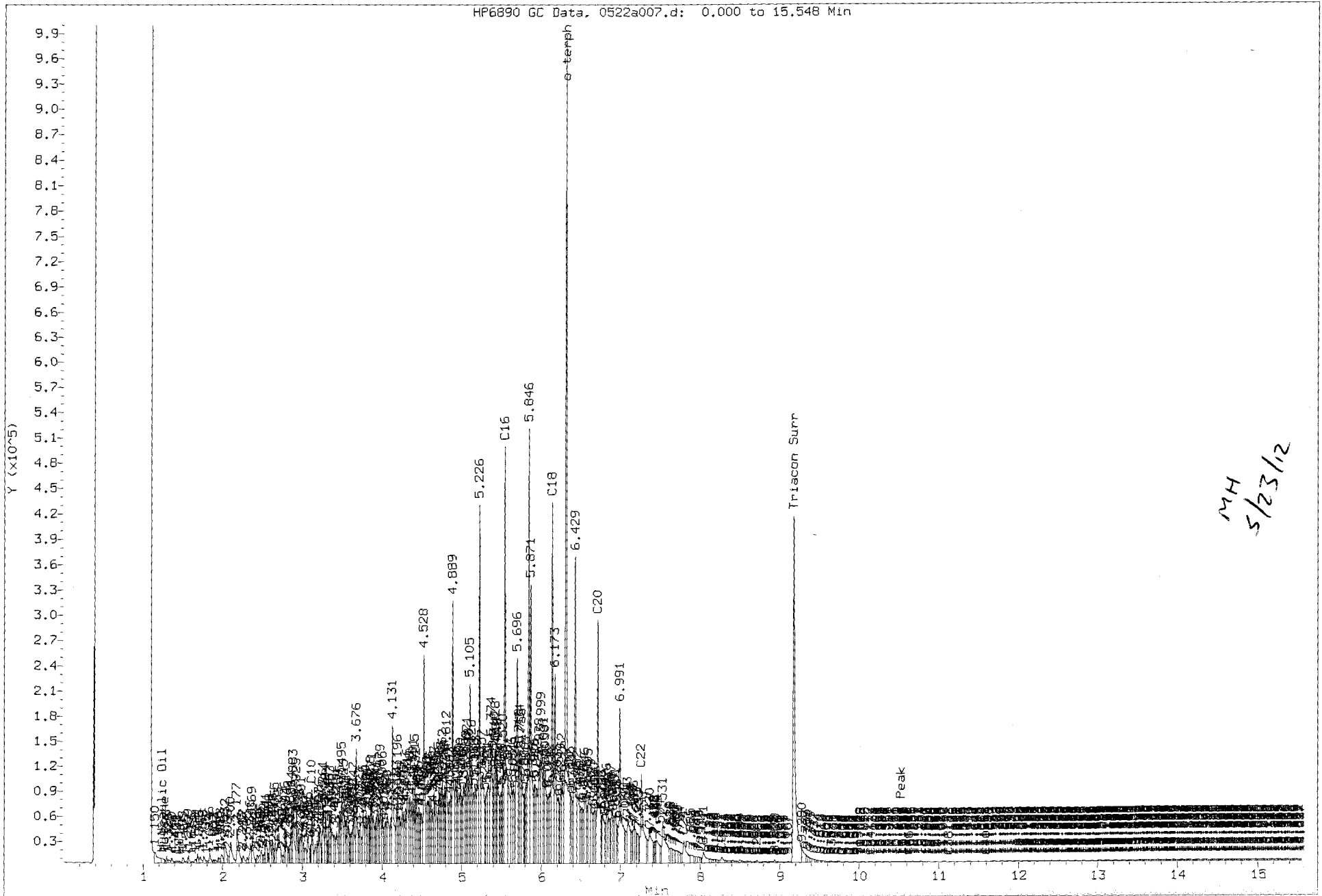
Operator: MH

Column diameter: 0.25

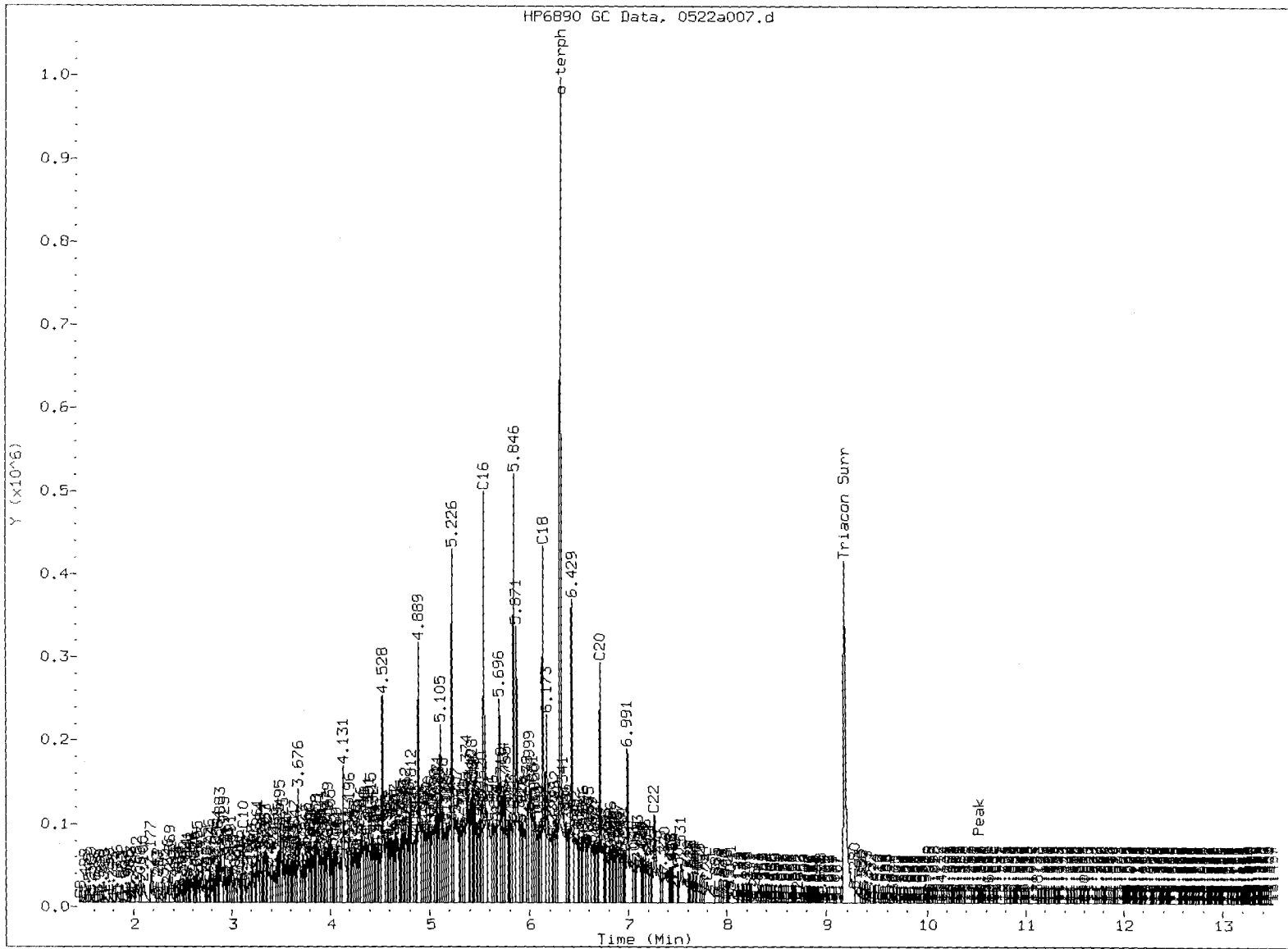


UU52-01913

Data File: /chem3/fid4a.i/20120522.b/0522a007.d
Injection Date: 22-MAY-2012 08:45
Instrument: fid4a.i
Client Sample ID: UU52LCSS1



UU52:01914



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a008.d ARI ID: UU52A
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID: MS001-SS-120515
 Instrument: fid4a.i Injection: 22-MAY-2012 09:09
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.270 | 0.001 | 4683 | 6304 | GAS (Tol-C12) | 145378 | 9.66 |
| C8 | 1.463 | -0.006 | 879 | 1315 | DIESEL (C12-C24) | 706711 | 51.86 |
| C10 | 3.123 | -0.002 | 457 | 584 | M.OIL (C24-C38) | 1398866 | 143.48 |
| C12 | 4.232 | 0.015 | 1177 | 2323 | AK-102 (C10-C25) | 827195 | 51.08 |
| C14 | 4.967 | 0.040 | 2536 | 8277 | AK-103 (C25-C36) | 1279395 | 164.88 |
| C16 | 5.567 | 0.005 | 3969 | 10941 | OR.DIES (C10-C28) | 1349847 | 105.10 |
| C18 | 6.140 | 0.000 | 3886 | 3687 | OR.MOIL (C28-C40) | 861152 | 114.02 |
| C20 | 6.715 | -0.010 | 5435 | 7087 | JET-A (C10-C18) | 365793 | 24.65 |
| C22 | 7.260 | -0.010 | 7910 | 18412 | MIN.OIL (C24-C38) | 1398866 | 104.08 |
| C24 | 7.782 | 0.003 | 12033 | 27606 | | | |
| C25 | 8.027 | 0.000 | 35498 | 73309 | | | |
| C26 | 8.261 | -0.006 | 17819 | 36646 | | | |
| C28 | 8.712 | -0.008 | 23042 | 40242 | | | |
| C32 | 9.656 | -0.001 | 7774 | 15890 | | | |
| C34 | 10.145 | 0.002 | 4958 | 5039 | | | |
| Filter Peak | 10.504 | -0.004 | 3461 | 4538 | CREOSOT (C12-C22) | 511548 | 139.23 |
| C36 | 10.625 | -0.004 | 2974 | 3338 | | | |
| C38 | 11.110 | -0.004 | 1833 | 1334 | | | |
| C40 | 11.591 | -0.002 | 1261 | 1280 | | | |
| o-terph | 6.311 | -0.001 | 611191 | 717599 | CRUDE (Tol-C40) | 2290093 | 303.21 |
| Triacon Surr | 9.185 | -0.004 | 547880 | 722081 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 717599 | 41.8 | 92.8 |
| Triacontane | 722081 | 42.1 | 93.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 09:09

Client ID: MS001-SS-120515

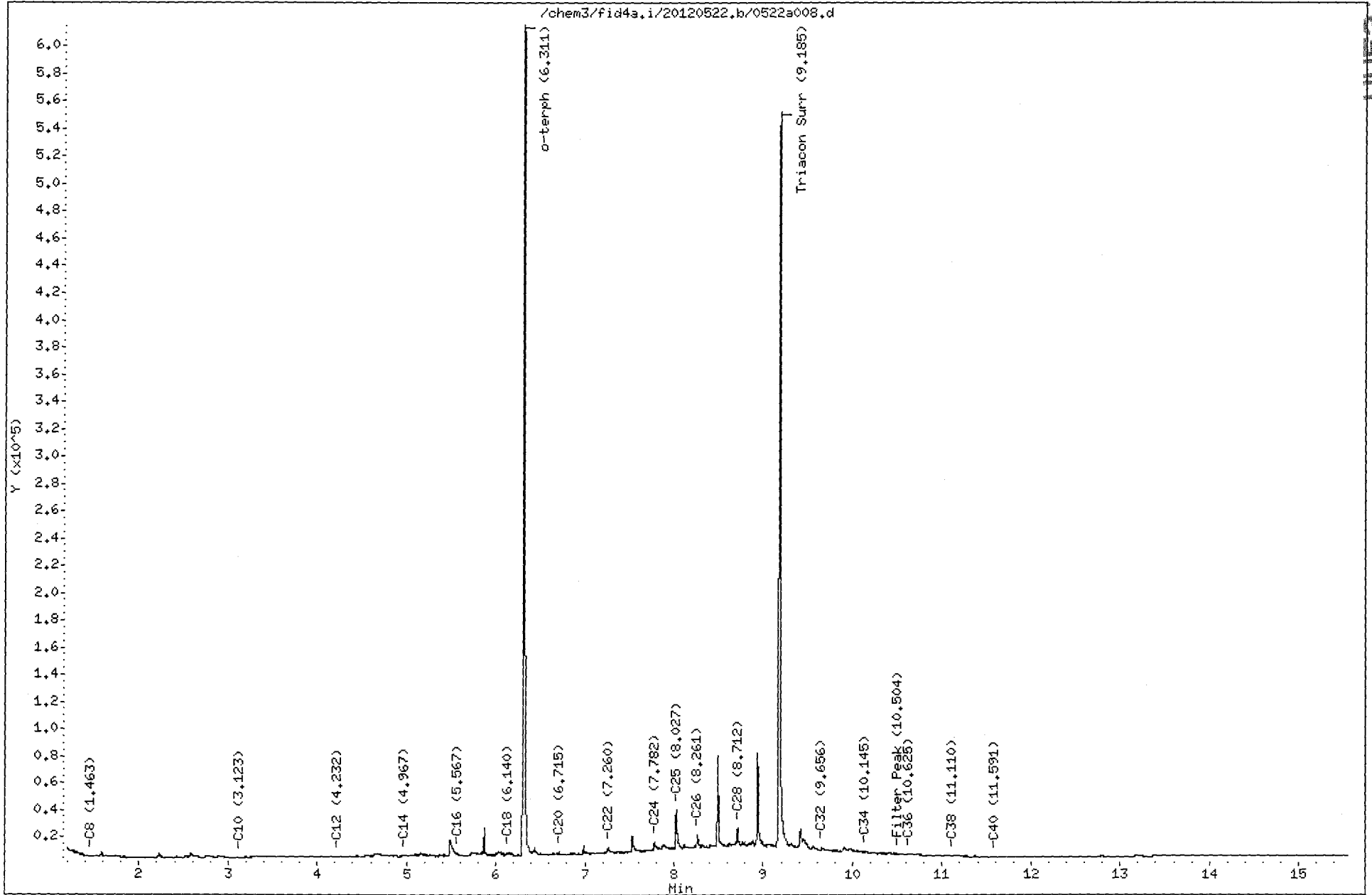
Sample Info: UU52A

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01917

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a009.d

ARI ID: UU52B

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: MS101-SS-120515

Instrument: fid4a.i

Injection: 22-MAY-2012 09:33

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.309 | 0.040 | 4152 | 4242 | GAS (Tol-C12) | 136734 | 9.09 |
| C8 | 1.472 | 0.002 | 880 | 1388 | DIESEL (C12-C24) | 732549 | 53.75 |
| C10 | 3.130 | 0.006 | 407 | 616 | M.OIL (C24-C38) | 1372466 | 140.77 |
| C12 | 4.216 | -0.001 | 1014 | 970 | AK-102 (C10-C25) | 848511 | 52.40 |
| C14 | 4.966 | 0.039 | 2733 | 9688 | AK-103 (C25-C36) | 1257102 | 162.01 |
| C16 | 5.565 | 0.003 | 5015 | 9218 | OR.DIES (C10-C28) | 1371181 | 106.76 |
| C18 | 6.138 | -0.002 | 4536 | 3544 | OR.MOIL (C28-C40) | 831057 | 110.03 |
| C20 | 6.732 | 0.007 | 3741 | 5299 | JET-A (C10-C18) | 389505 | 26.24 |
| C22 | 7.278 | 0.009 | 5453 | 8013 | MIN.OIL (C24-C38) | 1372466 | 102.11 |
| C24 | 7.785 | 0.005 | 12040 | 27638 | | | |
| C25 | 8.027 | 0.000 | 34967 | 69223 | | | |
| C26 | 8.260 | -0.007 | 18323 | 35233 | | | |
| C28 | 8.712 | -0.007 | 24009 | 38987 | | | |
| C32 | 9.654 | -0.002 | 7204 | 5614 | | | |
| C34 | 10.143 | -0.001 | 4852 | 3257 | | | |
| Filter Peak | 10.509 | 0.001 | 3383 | 4990 | CREOSOT (C12-C22) | 563463 | 153.36 |
| C36 | 10.625 | -0.004 | 2833 | 1837 | | | |
| C38 | 11.108 | -0.005 | 1764 | 2160 | | | |
| C40 | 11.594 | 0.001 | 1161 | 1052 | | | |
| o-terph | 6.310 | -0.002 | 706449 | 799582 | CRUDE (Tol-C40) | 2278533 | 301.68 |
| Triacon Surr | 9.185 | -0.005 | 602887 | 765905 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

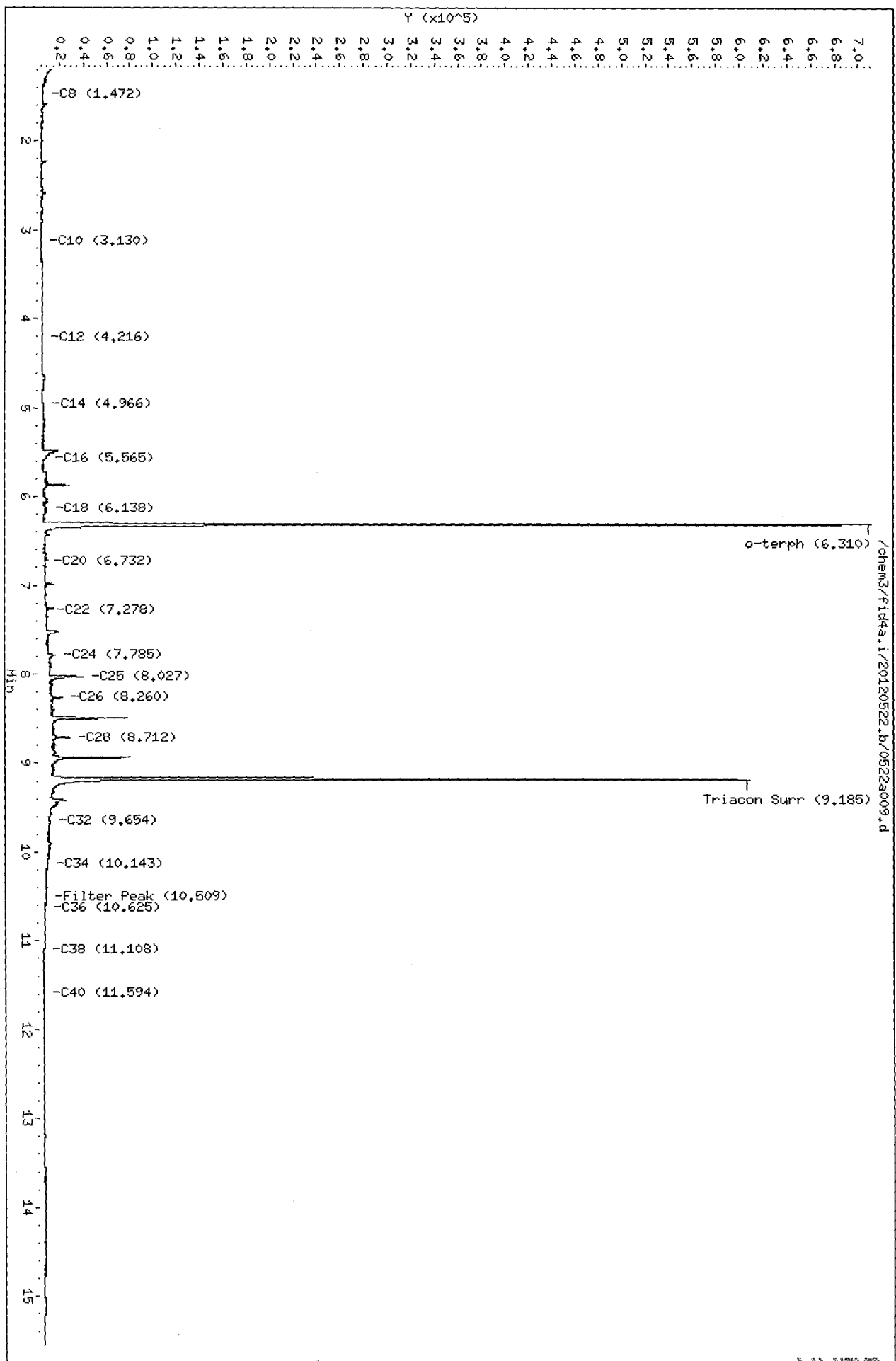
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 799582 | 46.5 | 103.4 |
| Triacotane | 765905 | 44.7 | 99.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52:01918

Data File: /chem3/fid4a.i/20120522.b/0522a009.d
Date : 22-MAY-2012 09:33
Client ID: HS101-SS-120515
Sample Info: U052B
Column phase: RTX-1

Instrument: fid4a.i
Operator: HH
Column diameter: 0.25



U052 . 01919

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a010.d ARI ID: UU52C
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID: MS002-SS-120515
 Instrument: fid4a.i Injection: 22-MAY-2012 09:57
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.307 | 0.038 | 4269 | 4041 | GAS (Tol-C12) | 175768 | 11.68 |
| C8 | 1.472 | 0.003 | 909 | 1243 | DIESEL (C12-C24) | 969341 | 71.13 |
| C10 | 3.122 | -0.003 | 498 | 1299 | M.OIL (C24-C38) | 1854475 | 190.21 |
| C12 | 4.214 | -0.003 | 1318 | 2343 | AK-102 (C10-C25) | 1103531 | 68.15 M |
| C14 | 4.958 | 0.030 | 3209 | 11675 | AK-103 (C25-C36) | 1712513 | 220.70 M |
| C16 | 5.560 | -0.002 | 6899 | 17762 | OR.DIES (C10-C28) | 1826338 | 142.20 M |
| C18 | 6.137 | -0.003 | 7403 | 7317 | OR.MOIL (C28-C40) | 1110499 | 147.03 M |
| C20 | 6.715 | -0.010 | 6998 | 9201 | JET-A (C10-C18) | 513818 | 34.62 |
| C22 | 7.283 | 0.013 | 5869 | 1724 | MIN.OIL (C24-C38) | 1854475 | 137.97 M |
| C24 | 7.771 | -0.008 | 17516 | 34917 | | | |
| C25 | 8.022 | -0.005 | 51141 | 89895 | | | |
| C26 | 8.258 | -0.009 | 23415 | 44823 | | | |
| C28 | 8.714 | -0.006 | 30956 | 54080 | | | |
| C32 | 9.654 | -0.002 | 9653 | 19815 | | | |
| C34 | 10.142 | -0.002 | 6202 | 5944 | | | |
| Filter Peak | 10.510 | 0.002 | 4115 | 4373 | CREOSOT (C12-C22) | 742930 | 202.20 M |
| C36 | 10.621 | -0.008 | 3628 | 4937 | | | |
| C38 | 11.121 | 0.008 | 2179 | 2923 | | | |
| C40 | 11.589 | -0.004 | 1413 | 716 | | | |
| o-terph | 6.312 | 0.001 | 741347 | 781582 | CRUDE (Tol-C40) | 3042954 | 402.89 M |
| Triacon Surr | 9.186 | -0.003 | 604211 | 706406 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 781582 | 45.5 | 101.1 |
| Triacontane | 706406 | 41.2 | 91.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 09:57

Client ID: HS002-SS-120515

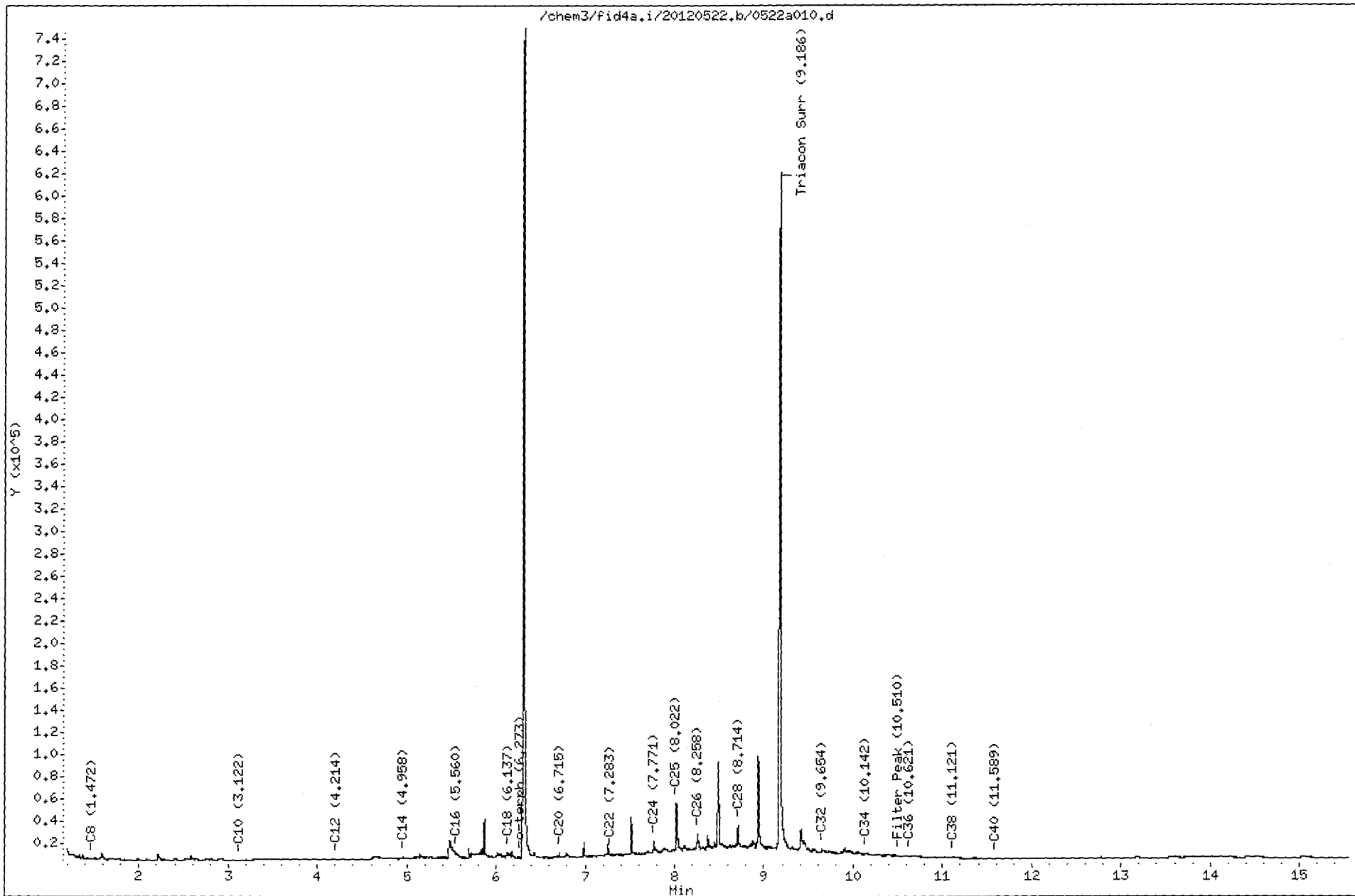
Sample Info: UU52C

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

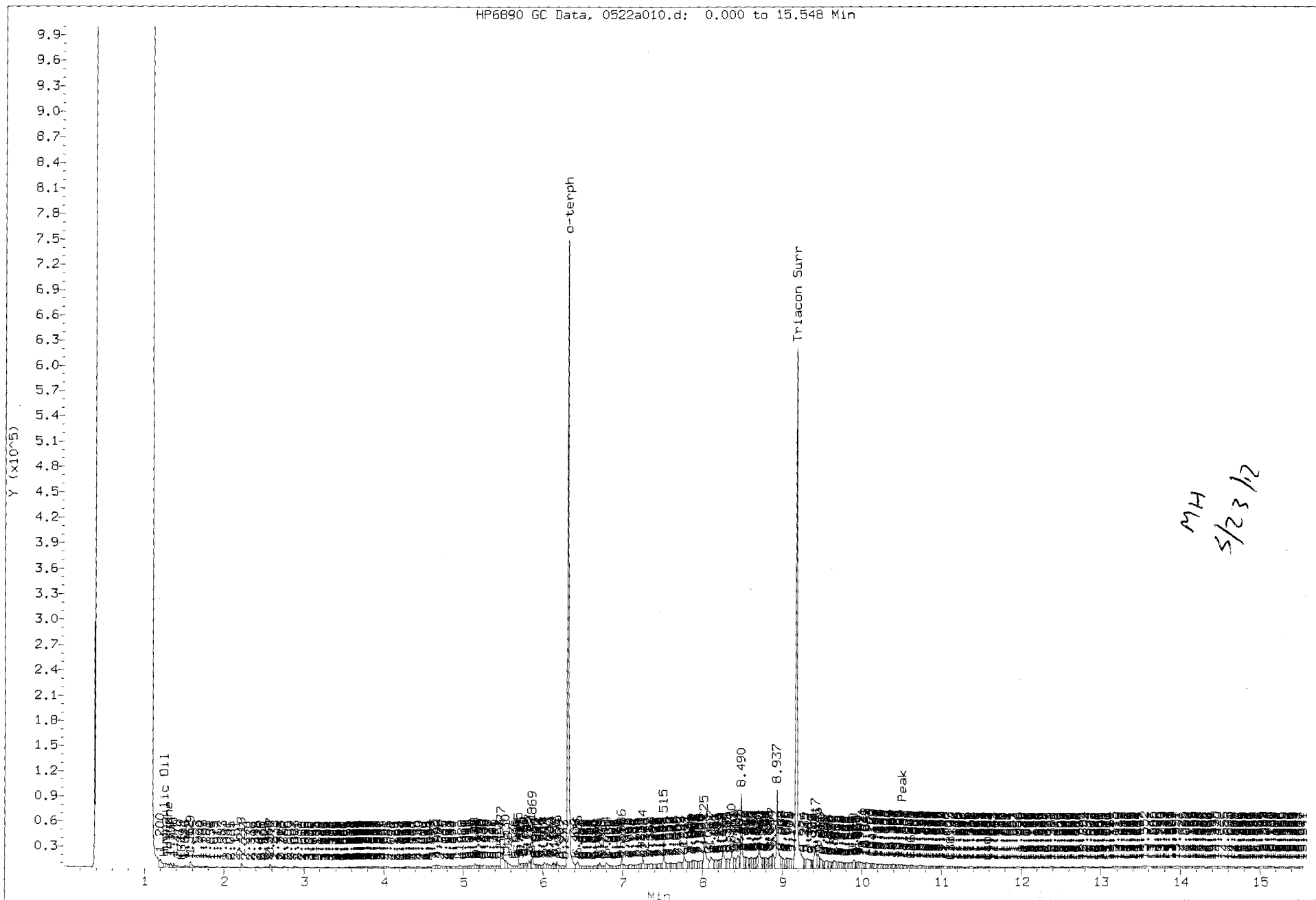
Column phase: RTX-1



UU52: 01921

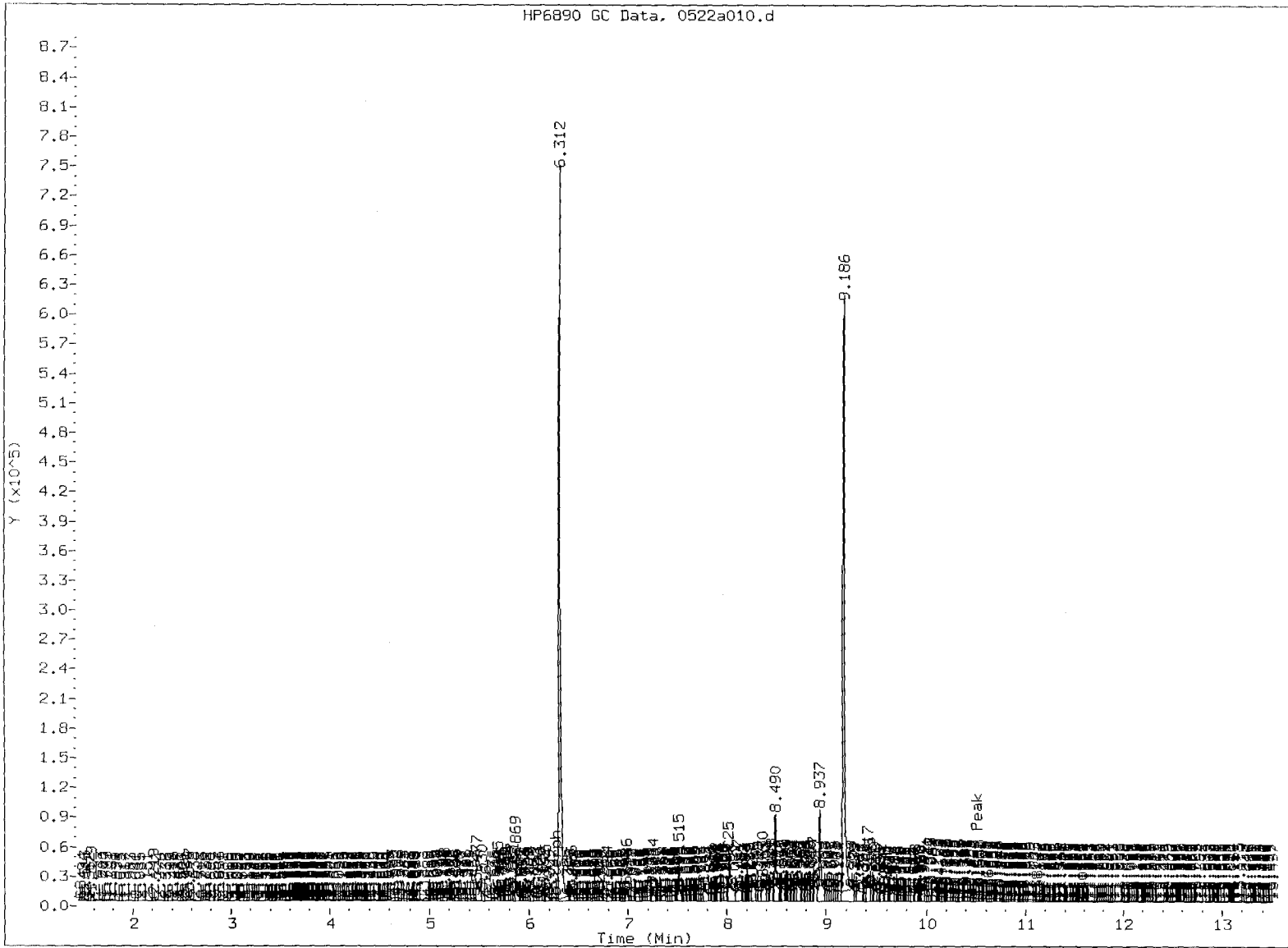
Data File: /chem3/fid4a.1/20120522.b/0522a010.d
Injection Date: 22-MAY-2012 09:57
Instrument: fid4a.1
Client Sample ID: MS002-SS-120515

HP6890 GC Data, 0522a010.d: 0.000 to 15.548 Min



0522:01922

HP6890 GC Data, 0522a010.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a011.d ARI ID: UU52D
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID: MS003-SS-120515
 Instrument: fid4a.i Injection: 22-MAY-2012 10:21
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.273 | 0.005 | 4355 | 5114 | GAS (Tol-C12) | 169533 | 11.27 |
| C8 | 1.506 | 0.037 | 1990 | 4253 | DIESEL (C12-C24) | 915081 | 67.15 |
| C10 | 3.117 | -0.008 | 468 | 986 | M.OIL (C24-C38) | 1547439 | 158.72 |
| C12 | 4.214 | -0.003 | 1204 | 2046 | AK-102 (C10-C25) | 1041143 | 64.30 |
| C14 | 4.931 | 0.003 | 1869 | 2717 | AK-103 (C25-C36) | 1425847 | 183.76 |
| C16 | 5.558 | -0.003 | 8267 | 19112 | OR.DIES (C10-C28) | 1630801 | 126.98 |
| C18 | 6.136 | -0.004 | 8345 | 7716 | OR.MOIL (C28-C40) | 934523 | 123.73 |
| C20 | 6.715 | -0.010 | 6151 | 10437 | JET-A (C10-C18) | 569275 | 38.36 |
| C22 | 7.253 | -0.016 | 13683 | 16611 | MIN.OIL (C24-C38) | 1547439 | 115.13 |
| C24 | 7.769 | -0.010 | 18729 | 25872 | | | |
| C25 | 8.021 | -0.006 | 46382 | 89473 | | | |
| C26 | 8.258 | -0.009 | 24534 | 51256 | | | |
| C28 | 8.710 | -0.009 | 28811 | 40882 | | | |
| C32 | 9.653 | -0.004 | 8368 | 18407 | | | |
| C34 | 10.147 | 0.003 | 5677 | 8242 | | | |
| Filter Peak | 10.499 | -0.008 | 3552 | 3704 | CREOSOT (C12-C22) | 739763 | 201.34 |
| C36 | 10.634 | 0.005 | 3227 | 2115 | | | |
| C38 | 11.122 | 0.009 | 1867 | 1513 | | | |
| C40 | 11.598 | 0.005 | 1168 | 414 | | | |
| o-terph | 6.311 | -0.001 | 705983 | 797107 | CRUDE (Tol-C40) | 2667164 | 353.14 |
| Triacon Surr | 9.183 | -0.006 | 603138 | 793378 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 797107 | 46.4 | 103.1 |
| Triacontane | 793378 | 46.3 | 102.9 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 10:21

Client ID: MS003-SS-120515

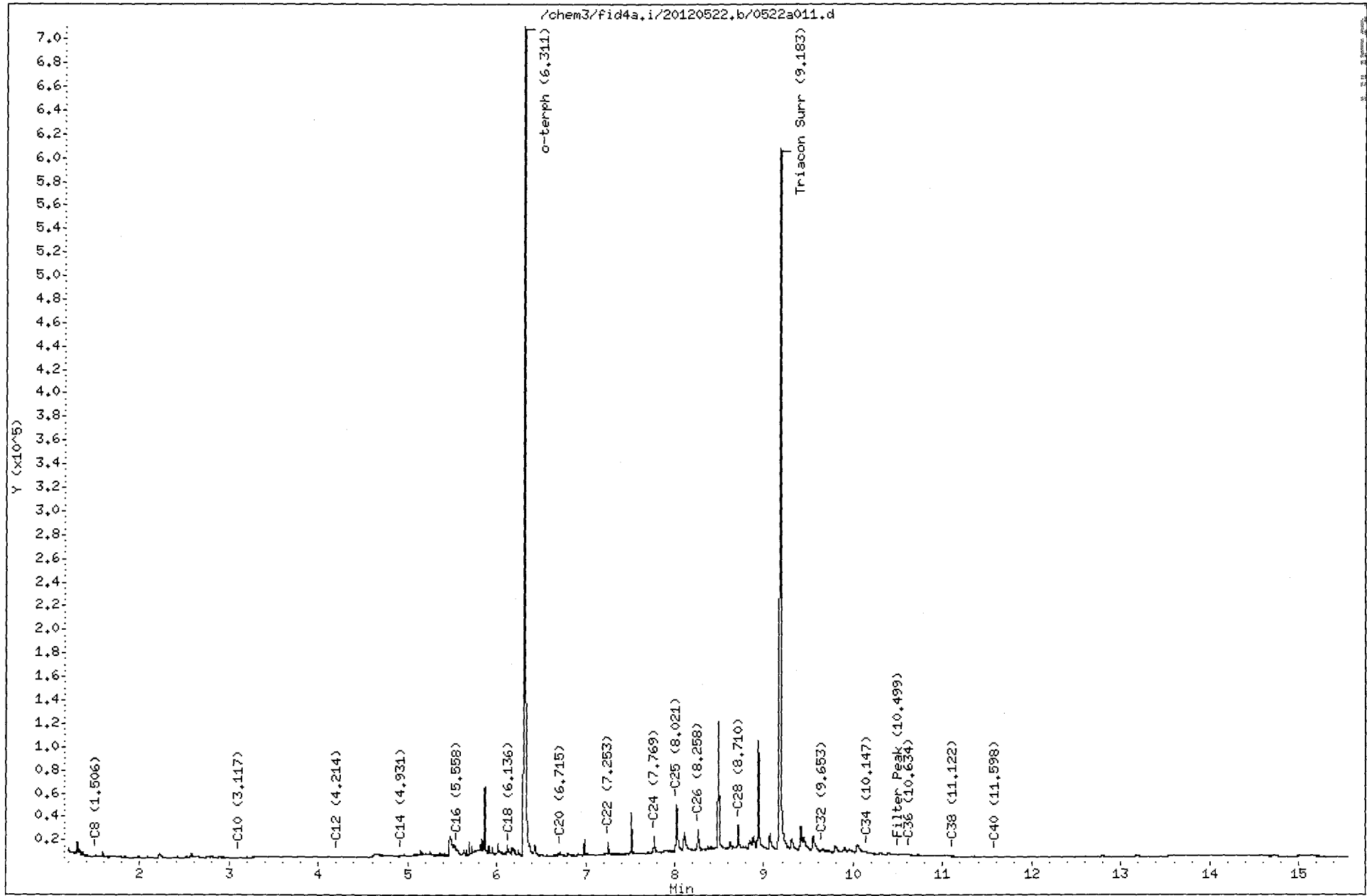
Sample Info: UU52D

Instrument: fid4a.i

Operator: MH

Column phase: RTX-1

Column diameter: 0.25



UU52-01925

MH
5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a014.d

ARI ID: DIESEL #2

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID:

Instrument: fid4a.i

Injection: 22-MAY-2012 11:33

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.300 | 0.032 | 3196 | 3865 | GAS (Tol-C12) | 911713 | 60.60 |
| C8 | 1.463 | -0.006 | 1336 | 1962 | DIESEL (C12-C24) | 3484324 | 255.67 |
| C10 | 3.125 | 0.000 | 3980 | 4398 | M.OIL (C24-C38) | 100353 | 10.29 |
| C12 | 4.211 | -0.006 | 13171 | 18392 | AK-102 (C10-C25) | 4164714 | 257.19 M |
| C14 | 4.937 | 0.010 | 24379 | 32202 | AK-103 (C25-C36) | 78509 | 10.12 |
| C16 | 5.573 | 0.011 | 26083 | 51712 | OR.DIES (C10-C28) | 4224420 | 328.93 M |
| C18 | 6.136 | -0.004 | 56720 | 78113 | OR.MOIL (C28-C40) | 23708 | 3.14 |
| C20 | 6.733 | 0.008 | 24341 | 77237 | JET-A (C10-C18) | 3096696 | 208.64 |
| C22 | 7.278 | 0.008 | 6718 | 3841 | MIN.OIL (C24-C38) | 100353 | 7.47 |
| C24 | 7.763 | -0.016 | 3447 | 5843 | | | |
| C25 | 8.023 | -0.003 | 2214 | 1462 | | | |
| C26 | 8.273 | 0.006 | 2304 | 3270 | | | |
| C28 | 8.734 | 0.015 | 902 | 2603 | | | |
| C32 | 9.647 | -0.009 | 185 | 253 | | | |
| C34 | 10.152 | 0.008 | 46 | 9 | | | |
| Filter Peak | 10.508 | 0.000 | 29 | 9 | CREOSOT (C12-C22) | 3359886 | 914.47 M |
| C36 | 10.618 | -0.011 | 24 | 23 | | | |
| C38 | 11.121 | 0.008 | 55 | 32 | | | |
| C40 | 11.593 | 0.000 | 125 | 108 | | | |
| o-terph | 6.311 | -0.001 | 624205 | 773980 | CRUDE (Tol-C40) | 4499282 | 595.71 M |
| Triacon Surr | 9.175 | -0.014 | 297 | 138 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 773980 | 45.0 | 100.1 |
| Triacontane | 138 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 11:33

Client ID:

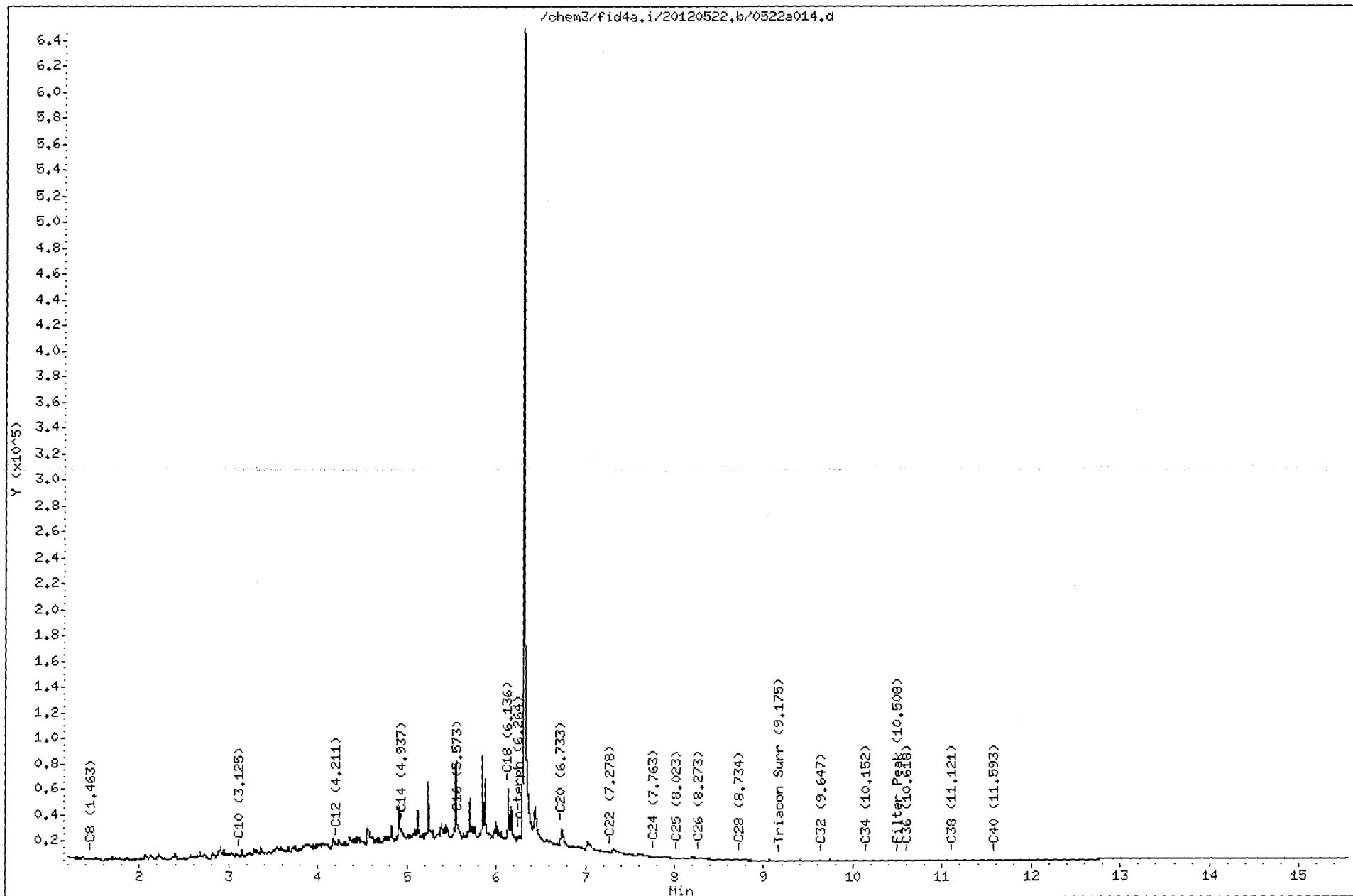
Instrument: fid4a.i

Sample Info: DIESEL #2

Operator: MH

Column phase: RTX-1

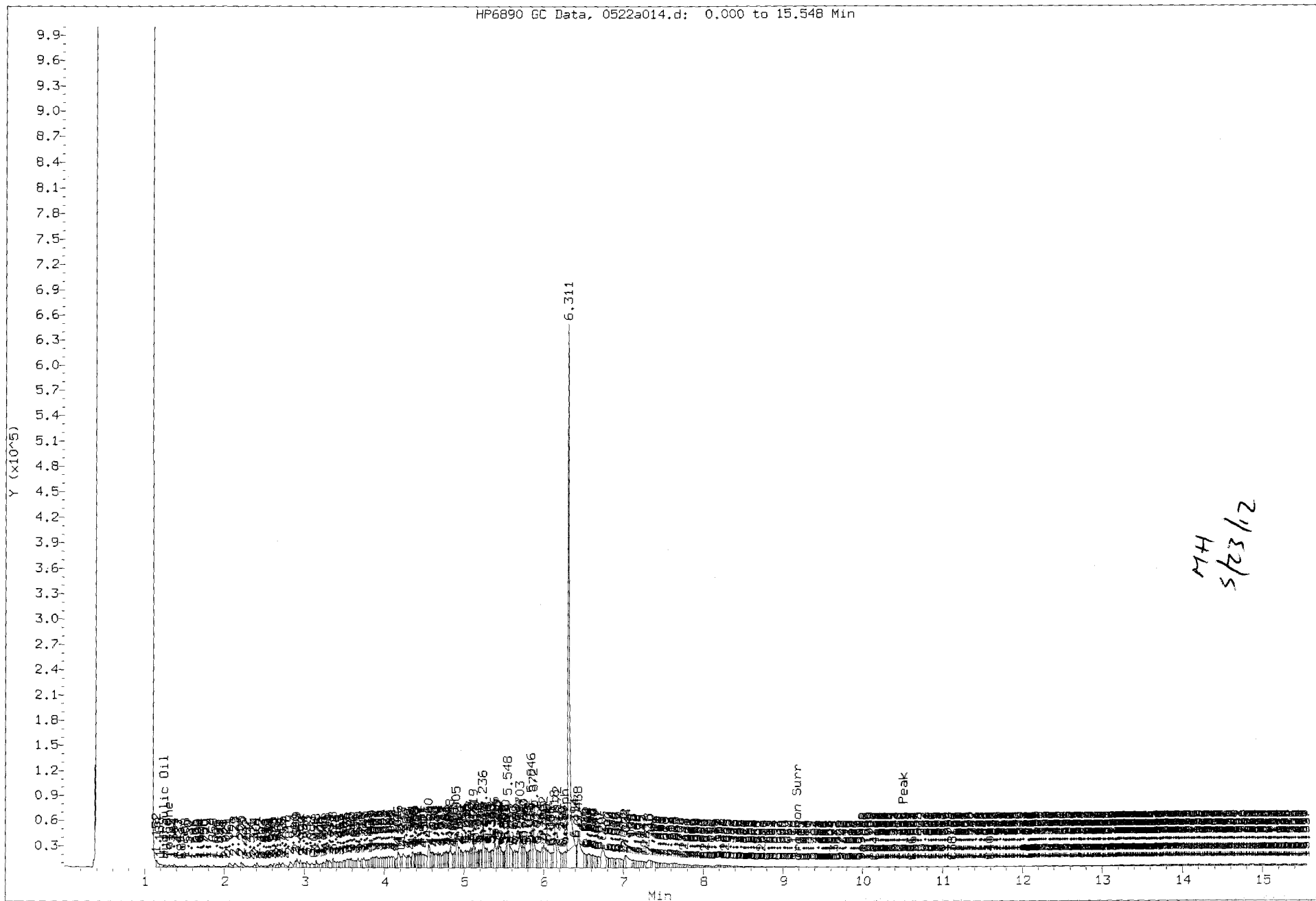
Column diameter: 0.25



0052-01927

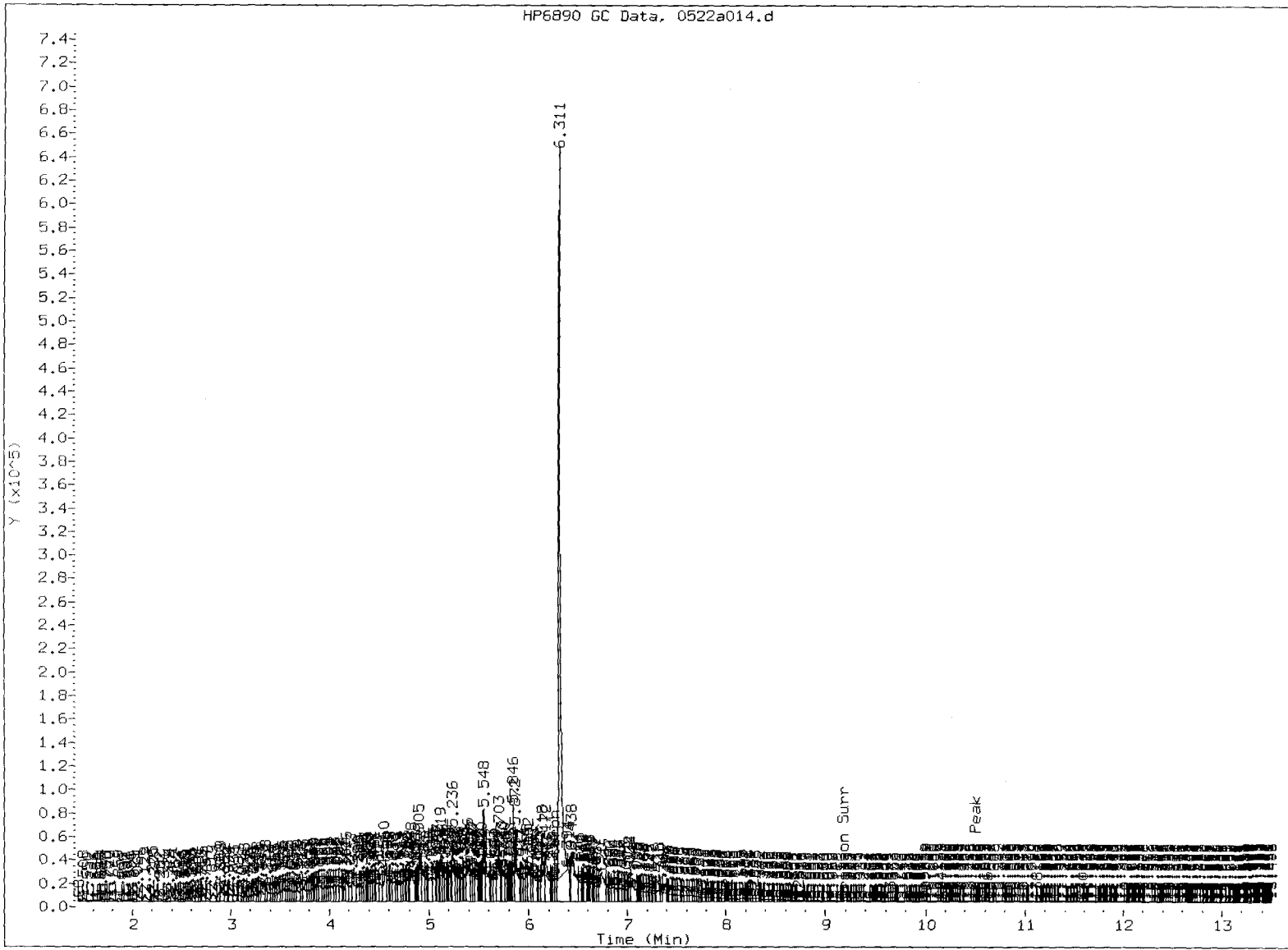
Data File: /chem3/fid4a.1/20120522.b/0522a014.d
Injection Date: 22-MAY-2012 11:33
Instrument: fid4a.1
Client Sample ID:

HP6890 GC Data, 0522a014.d: 0.000 to 15.548 Min



0522:01928

HP6890 GC Data, 0522a014.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a015.d ARI ID: MOIL #2
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 22-MAY-2012 11:57
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.265 | -0.004 | 34657 | 76051 | GAS (Tol-C12) | 161249 | 10.72 |
| C8 | 1.431 | -0.038 | 1309 | 6534 | DIESEL (C12-C24) | 543644 | 39.89 |
| C10 | 3.125 | 0.001 | 472 | 564 | M.OIL (C24-C38) | 4703644 | 482.44 |
| C12 | 4.225 | 0.008 | 545 | 393 | AK-102 (C10-C25) | 804737 | 49.70 |
| C14 | 4.935 | 0.007 | 514 | 526 | AK-103 (C25-C36) | 4221468 | 544.05 M |
| C16 | 5.571 | 0.009 | 503 | 573 | OR.DIES (C10-C28) | 2259770 | 175.95 |
| C18 | 6.164 | 0.024 | 474 | 632 | OR.MOIL (C28-C40) | 3160071 | 418.40 M |
| C20 | 6.733 | 0.007 | 998 | 1307 | JET-A (C10-C18) | 88686 | 5.98 |
| C22 | 7.270 | 0.001 | 4868 | 4362 | MIN.OIL (C24-C38) | 4703644 | 349.96 M |
| C24 | 7.773 | -0.006 | 19507 | 20129 | | | |
| C25 | 8.021 | -0.005 | 26946 | 17388 | | | |
| C26 | 8.267 | 0.000 | 32192 | 51936 | | | |
| C28 | 8.724 | 0.004 | 35624 | 22896 | | | |
| C32 | 9.652 | -0.004 | 29744 | 22054 | | | |
| C34 | 10.150 | 0.006 | 21283 | 6987 | | | |
| Filter Peak | 10.516 | 0.008 | 14127 | 6902 | CREOSOT (C12-C22) | 167179 | 45.50 |
| C36 | 10.628 | -0.001 | 13072 | 10731 | | | |
| C38 | 11.102 | -0.012 | 7216 | 17154 | | | |
| C40 | 11.592 | -0.001 | 3762 | 2804 | | | |
| o-terph | 6.317 | 0.006 | 469 | 240 | CRUDE (Tol-C40) | 5544308 | 734.08 M |
| Triacon Surr | 9.189 | 0.000 | 670391 | 774056 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 240 | 0.0 | 0.0 |
| Triacotane | 774056 | 45.2 | 100.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 11:57

Client ID:

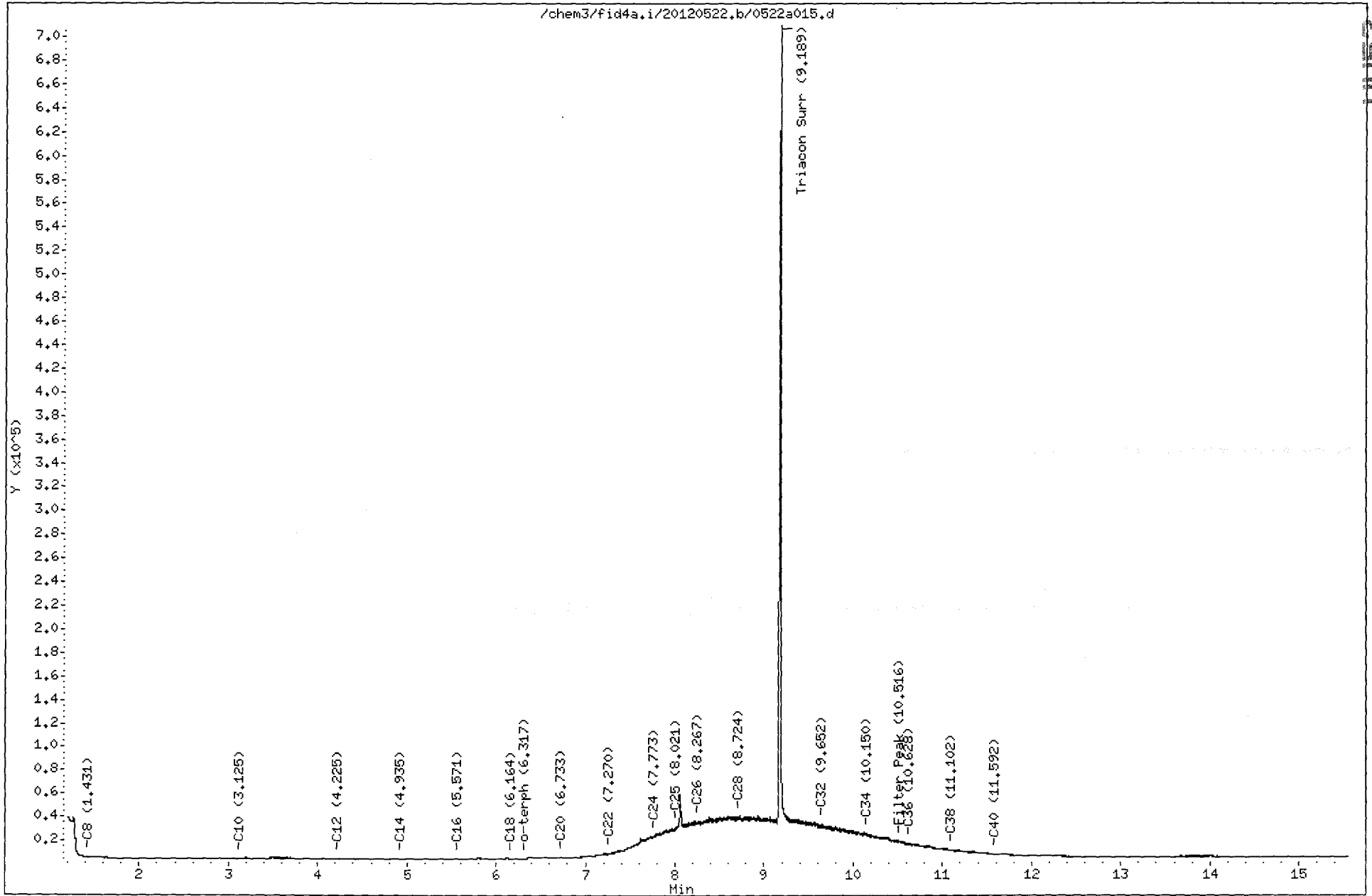
Instrument: fid4a.i

Sample Info: MOIL #2

Operator: MH

Column phase: RTX-1

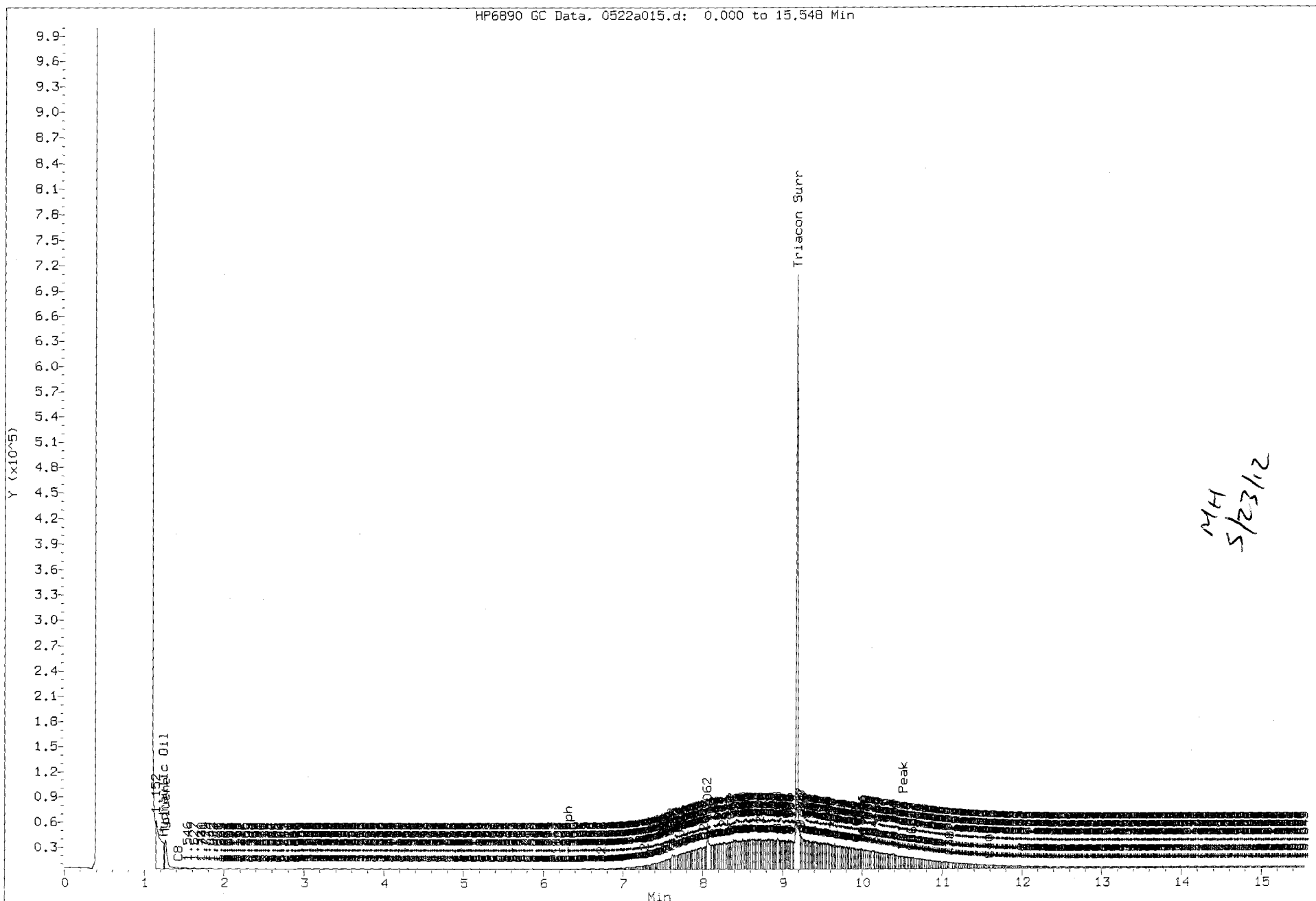
Column diameter: 0.25



0052-01931

Data File: /chem3/fid4a.1/20120522.b/0522a015.d
Injection Date: 22-MAY-2012 11:57
Instrument: fid4a.1
Client Sample ID:

HP6890 GC Data, 0522a015.d: 0.000 to 15.548 Min

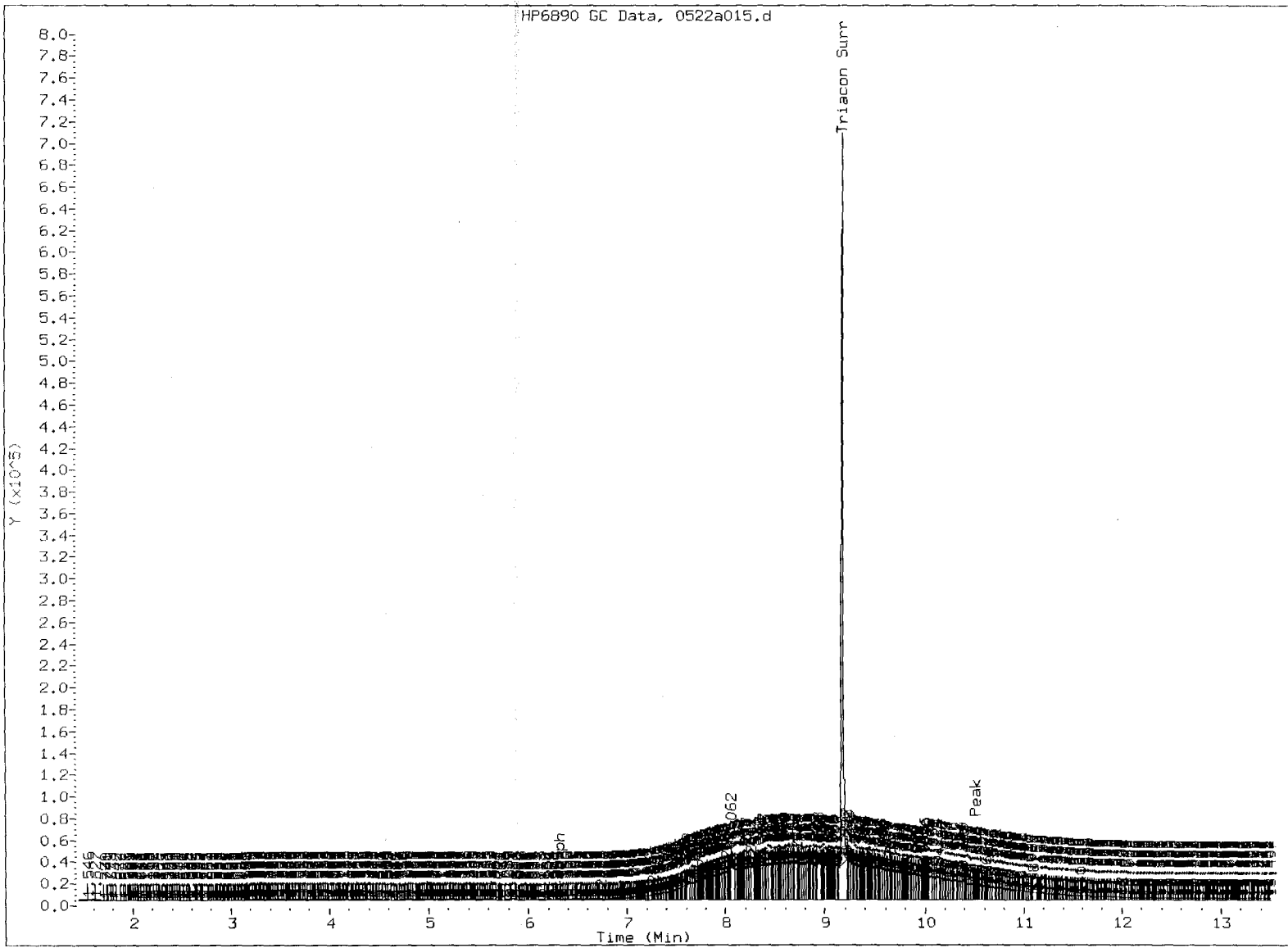


0522:01932

FID:4A-2C/RTX-1 MOIL #2

FID:4A SIGNAL

HP6890 GC Data, 0522a015.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a016.d

ARI ID: UU52E

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: MS004-SS-120515

Instrument: fid4a.i

Injection: 22-MAY-2012 12:21

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.265 | -0.004 | 4237 | 6741 | GAS (Tol-C12) | 161342 | 10.72 |
| C8 | 1.480 | 0.011 | 865 | 908 | DIESEL (C12-C24) | 631655 | 46.35 |
| C10 | 3.143 | 0.018 | 479 | 1316 | M.OIL (C24-C38) | 1072182 | 109.97 |
| C12 | 4.218 | 0.001 | 1091 | 581 | AK-102 (C10-C25) | 725612 | 44.81 |
| C14 | 4.920 | -0.007 | 1631 | 742 | AK-103 (C25-C36) | 995355 | 128.28 |
| C16 | 5.565 | 0.003 | 5275 | 12580 | OR.DIES (C10-C28) | 1161030 | 90.40 |
| C18 | 6.140 | 0.000 | 4977 | 4370 | OR.MOIL (C28-C40) | 633828 | 83.92 |
| C20 | 6.716 | -0.010 | 5089 | 8064 | JET-A (C10-C18) | 415532 | 28.00 |
| C22 | 7.255 | -0.015 | 11288 | 15778 | MIN.OIL (C24-C38) | 1072182 | 79.77 |
| C24 | 7.778 | -0.001 | 9502 | 17900 | | | |
| C25 | 8.028 | 0.002 | 44913 | 76352 | | | |
| C26 | 8.262 | -0.005 | 19545 | 35417 | | | |
| C28 | 8.712 | -0.007 | 21917 | 36272 | | | |
| C32 | 9.665 | 0.008 | 5786 | 16107 | | | |
| C34 | 10.150 | 0.006 | 3750 | 2959 | | | |
| Filter Peak | 10.505 | -0.003 | 2865 | 2151 | CREOSOT (C12-C22) | 510045 | 138.82 |
| C36 | 10.615 | -0.014 | 2333 | 4349 | | | |
| C38 | 11.114 | 0.000 | 1354 | 1140 | | | |
| C40 | 11.598 | 0.005 | 907 | 1205 | | | |
| o-terph | 6.311 | 0.000 | 682544 | 799172 | CRUDE (Tol-C40) | 1892986 | 250.64 |
| Triacon Surr | 9.186 | -0.003 | 583078 | 777640 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 799172 | 46.5 | 103.3 |
| Triacotane | 777640 | 45.4 | 100.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 12:21

Client ID: MS004-SS-120515

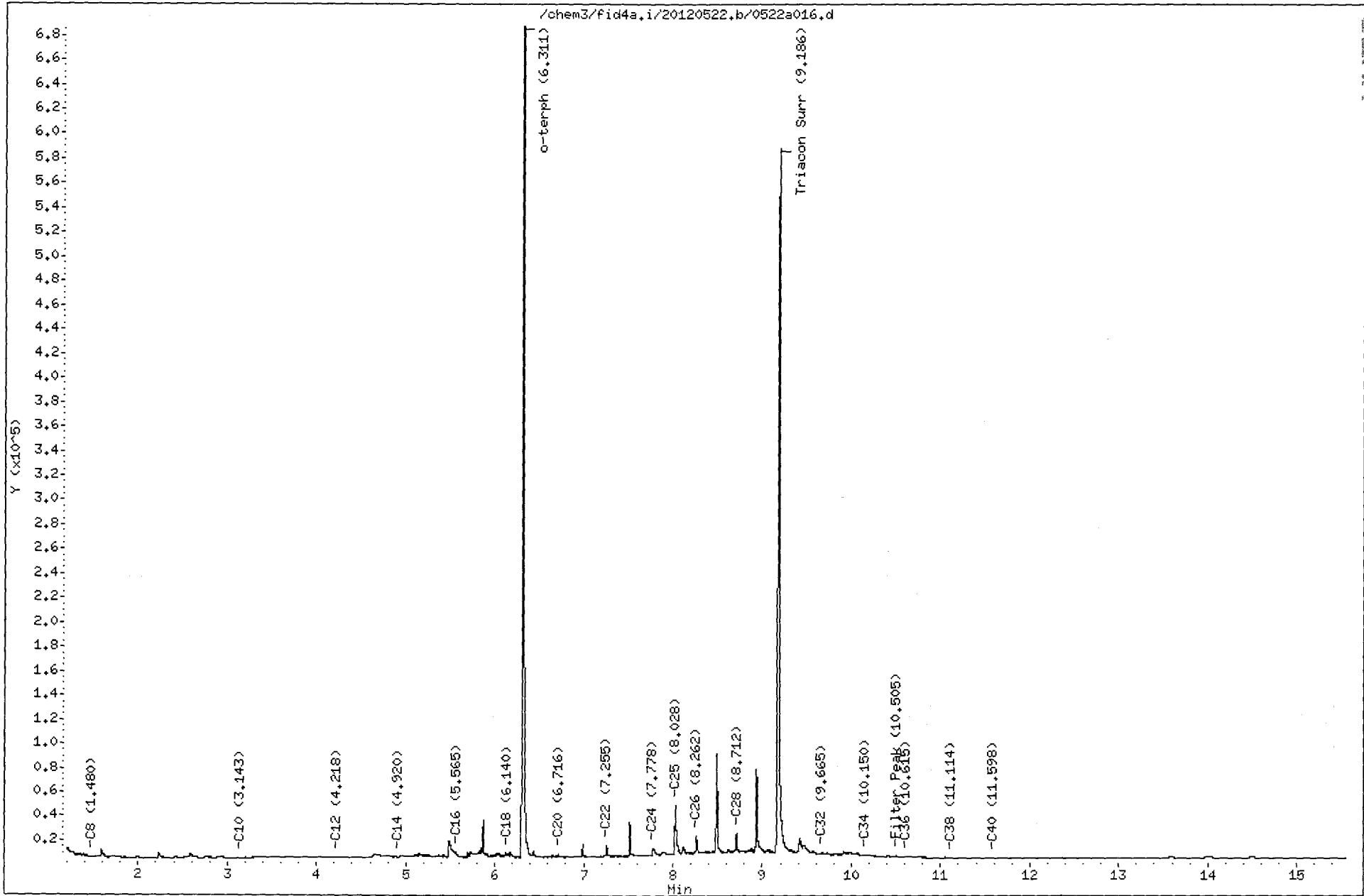
Sample Info: UU52E

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01935

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a017.d ARI ID: UU52F
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID: MS005-SS-120515
 Instrument: fid4a.i Injection: 22-MAY-2012 12:45
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.310 | 0.041 | 3127 | 3304 | GAS (Tol-C12) | 139352 | 9.26 |
| C8 | 1.473 | 0.004 | 936 | 1688 | DIESEL (C12-C24) | 630178 | 46.24 |
| C10 | 3.133 | 0.008 | 367 | 595 | M.OIL (C24-C38) | 1445998 | 148.31 |
| C12 | 4.237 | 0.020 | 937 | 442 | AK-102 (C10-C25) | 731777 | 45.19 |
| C14 | 4.924 | -0.003 | 1454 | 1424 | AK-103 (C25-C36) | 1334720 | 172.01 |
| C16 | 5.570 | 0.008 | 2594 | 5365 | OR.DIES (C10-C28) | 1290589 | 100.49 |
| C18 | 6.153 | 0.013 | 4882 | 4900 | OR.MOIL (C28-C40) | 871814 | 115.43 |
| C20 | 6.714 | -0.011 | 5707 | 5809 | JET-A (C10-C18) | 297373 | 20.04 |
| C22 | 7.283 | 0.013 | 4589 | 1807 | MIN.OIL (C24-C38) | 1445998 | 107.58 |
| C24 | 7.787 | 0.008 | 9698 | 28815 | | | |
| C25 | 8.027 | 0.001 | 27907 | 59841 | | | |
| C26 | 8.262 | -0.005 | 18040 | 39272 | | | |
| C28 | 8.710 | -0.009 | 27395 | 42644 | | | |
| C32 | 9.652 | -0.004 | 7451 | 14548 | | | |
| C34 | 10.149 | 0.005 | 4858 | 8401 | | | |
| Filter Peak | 10.497 | -0.010 | 3682 | 4820 | CREOSOT (C12-C22) | 463856 | 126.25 |
| C36 | 10.636 | 0.007 | 2843 | 892 | | | |
| C38 | 11.114 | 0.001 | 1752 | 1205 | | | |
| C40 | 11.592 | -0.001 | 1165 | 984 | | | |
| o-terph | 6.310 | -0.001 | 655239 | 798526 | CRUDE (Tol-C40) | 2251838 | 298.15 |
| Triacon Surr | 9.183 | -0.006 | 592173 | 768142 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 798526 | 46.5 | 103.2 |
| Triacontane | 768142 | 44.8 | 99.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 12:45

Client ID: MS005-SS-120515

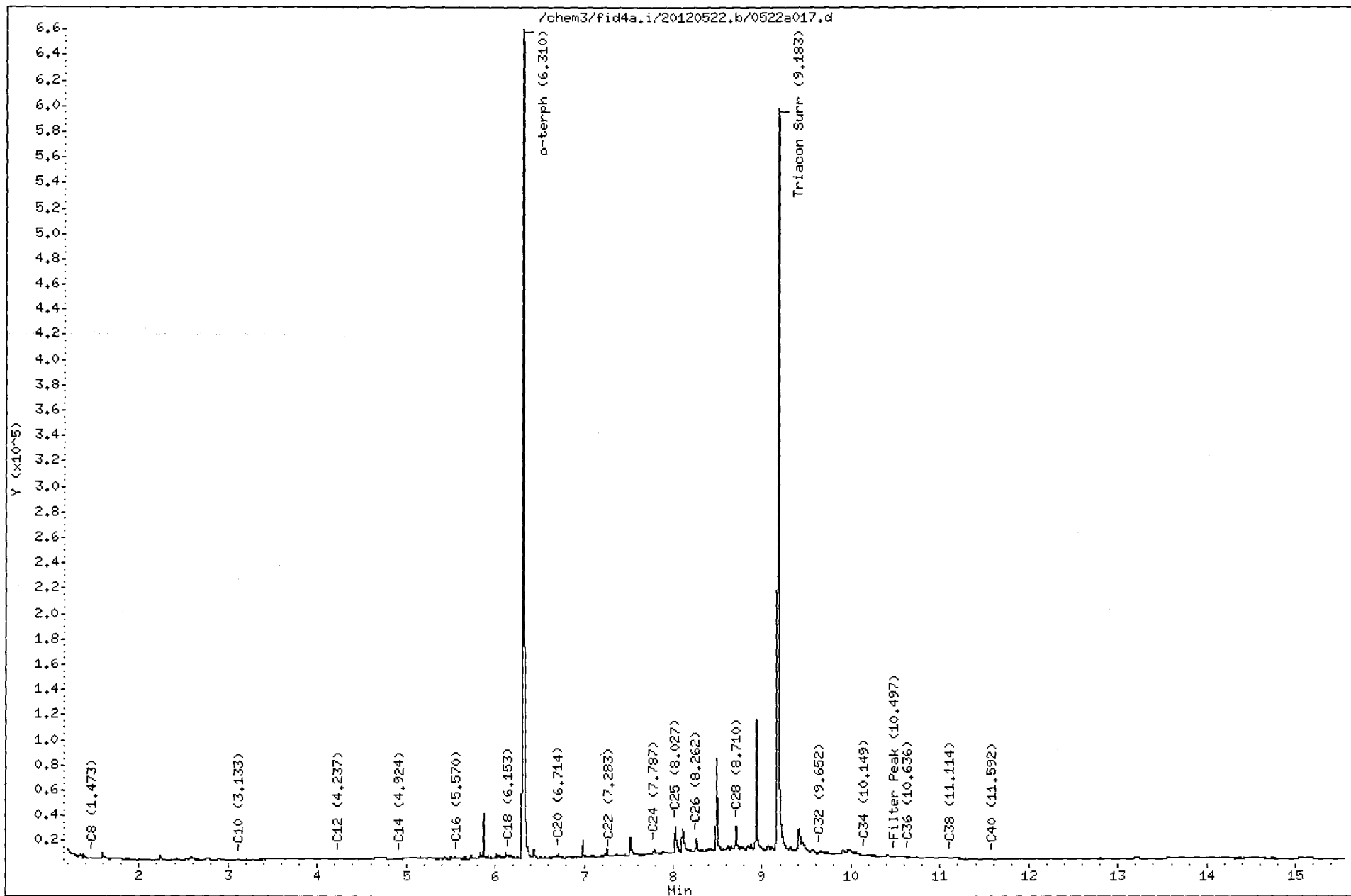
Sample Info: UU52F

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01937

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a018.d ARI ID: UU52G
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 Instrument: fid4a.i Injection: 22-MAY-2012 13:10
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.269 | 0.000 | 4835 | 11467 | GAS (Tol-C12) | 156456 | 10.40 |
| C8 | 1.484 | 0.015 | 840 | 1520 | DIESEL (C12-C24) | 820892 | 60.24 |
| C10 | 3.123 | -0.001 | 428 | 641 | M.OIL (C24-C38) | 1727768 | 177.21 |
| C12 | 4.237 | 0.021 | 1617 | 4380 | AK-102 (C10-C25) | 931243 | 57.51 |
| C14 | 4.928 | 0.001 | 2036 | 1444 | AK-103 (C25-C36) | 1626414 | 209.61 |
| C16 | 5.567 | 0.006 | 3288 | 4255 | OR.DIES (C10-C28) | 1669111 | 129.96 |
| C18 | 6.139 | -0.001 | 4548 | 3873 | OR.MOIL (C28-C40) | 978987 | 129.62 |
| C20 | 6.733 | 0.007 | 4309 | 5687 | JET-A (C10-C18) | 397114 | 26.76 |
| C22 | 7.259 | -0.010 | 9494 | 24485 | MIN.OIL (C24-C38) | 1727768 | 128.55 |
| C24 | 7.780 | 0.001 | 14370 | 29617 | | | |
| C25 | 8.022 | -0.004 | 39975 | 67502 | | | |
| C26 | 8.256 | -0.011 | 21118 | 37599 | | | |
| C28 | 8.710 | -0.009 | 32219 | 50373 | | | |
| C32 | 9.659 | 0.003 | 8827 | 24166 | | | |
| C34 | 10.145 | 0.001 | 5028 | 3741 | | | |
| Filter Peak | 10.496 | -0.011 | 3537 | 5944 | CREOSOT (C12-C22) | 600118 | 163.34 |
| C36 | 10.625 | -0.004 | 2873 | 2091 | | | |
| C38 | 11.114 | 0.001 | 1691 | 2074 | | | |
| C40 | 11.582 | -0.011 | 1097 | 2148 | | | |
| o-terph | 6.310 | -0.001 | 649236 | 781303 | CRUDE (Tol-C40) | 2738533 | 362.59 |
| Triacon Surr | 9.185 | -0.004 | 604469 | 743228 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 781303 | 45.5 | 101.0 |
| Triacotane | 743228 | 43.4 | 96.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 13:10

Client ID: MS006-SS-120515

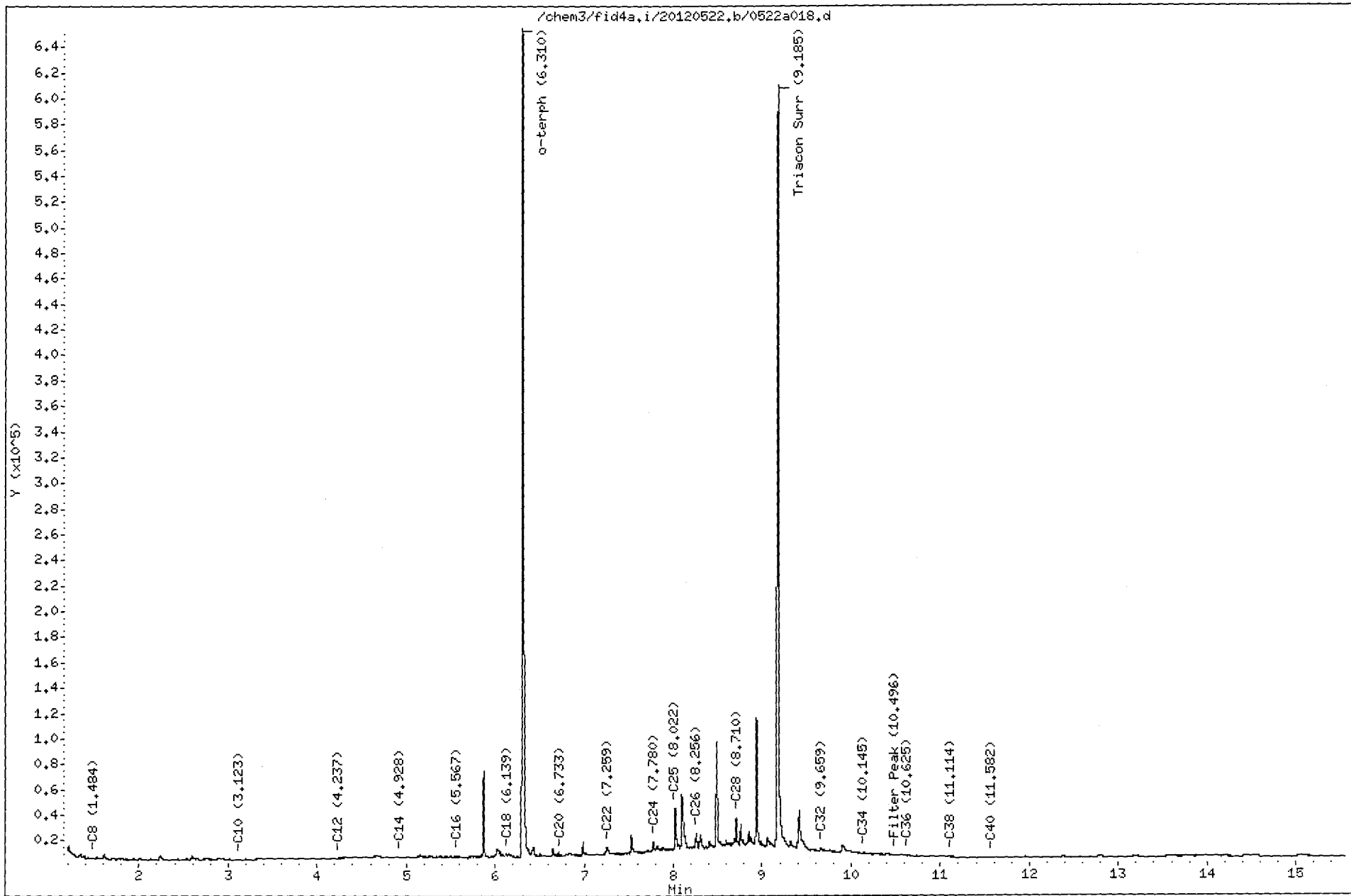
Sample Info: UU52G

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01939

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a019.d

ARI ID: UU52H

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: MS007-SS-120515

Instrument: fid4a.i

Injection: 22-MAY-2012 13:34

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.271 | 0.002 | 4985 | 11072 | GAS (Tol-C12) | 159569 | 10.61 |
| C8 | 1.431 | -0.038 | 1415 | 4442 | DIESEL (C12-C24) | 827543 | 60.72 |
| C10 | 3.125 | 0.000 | 548 | 753 | M.OIL (C24-C38) | 1866002 | 191.39 |
| C12 | 4.219 | 0.002 | 1326 | 1230 | AK-102 (C10-C25) | 968139 | 59.79 |
| C14 | 4.926 | -0.002 | 1969 | 930 | AK-103 (C25-C36) | 1715781 | 221.12 |
| C16 | 5.566 | 0.004 | 4523 | 16193 | OR.DIES (C10-C28) | 1630103 | 126.93 |
| C18 | 6.139 | -0.002 | 4474 | 3785 | OR.MOIL (C28-C40) | 1185657 | 156.98 |
| C20 | 6.733 | 0.007 | 3887 | 4303 | JET-A (C10-C18) | 436422 | 29.40 |
| C22 | 7.256 | -0.014 | 10924 | 18958 | MIN.OIL (C24-C38) | 1866002 | 138.83 |
| C24 | 7.780 | 0.000 | 12788 | 32375 | | | |
| C25 | 8.024 | -0.003 | 35105 | 78661 | | | |
| C26 | 8.260 | -0.008 | 20000 | 41843 | | | |
| C28 | 8.710 | -0.010 | 28467 | 47990 | | | |
| C32 | 9.652 | -0.005 | 9937 | 20742 | | | |
| C34 | 10.140 | -0.004 | 6162 | 5179 | | | |
| Filter Peak | 10.519 | 0.011 | 4283 | 2904 | CREOSOT (C12-C22) | 615960 | 167.65 |
| C36 | 10.637 | 0.008 | 3789 | 1414 | | | |
| C38 | 11.108 | -0.006 | 2356 | 3285 | | | |
| C40 | 11.594 | 0.001 | 1512 | 2861 | | | |
| o-terph | 6.311 | -0.001 | 716460 | 802572 | CRUDE (Tol-C40) | 2901914 | 384.22 |
| Triacon Surr | 9.186 | -0.003 | 630387 | 798912 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 802572 | 46.7 | 103.8 |
| Triacontane | 798912 | 46.6 | 103.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52:01940

Date : 22-MAY-2012 13:34

Client ID: MS007-SS-120515

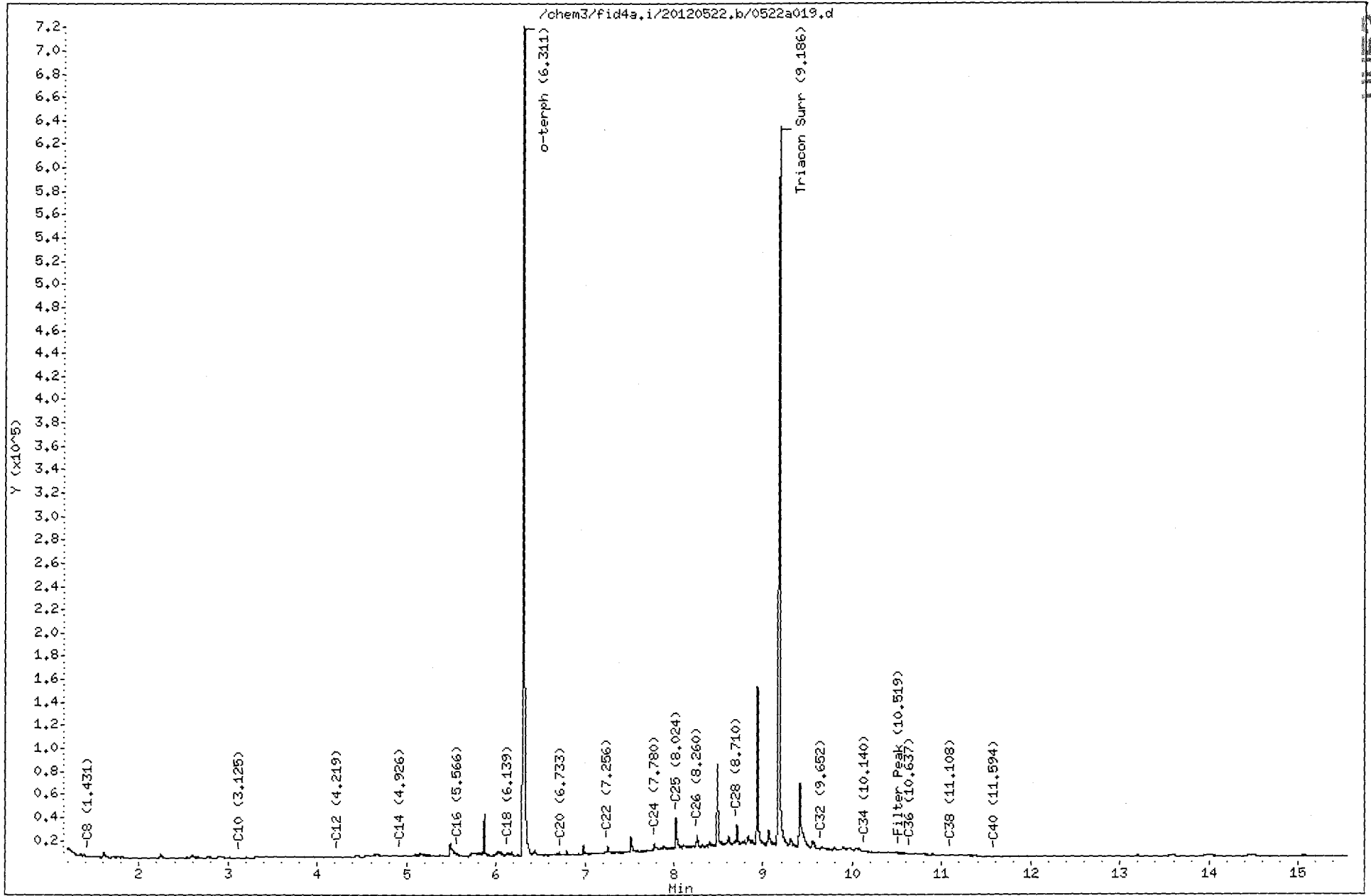
Sample Info: UUS2H

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UUS2-01944

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a020.d

ARI ID: UU52I

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: MS008-SS-120515

Instrument: fid4a.i

Injection: 22-MAY-2012 13:59

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.270 | 0.002 | 4343 | 10267 | GAS (Tol-C12) | 154869 | 10.29 |
| C8 | 1.487 | 0.018 | 844 | 1442 | DIESEL (C12-C24) | 487878 | 35.80 |
| C10 | 3.117 | -0.007 | 372 | 393 | M.OIL (C24-C38) | 1297873 | 133.12 |
| C12 | 4.219 | 0.002 | 998 | 374 | AK-102 (C10-C25) | 591466 | 36.53 |
| C14 | 4.914 | -0.014 | 1135 | 1495 | AK-103 (C25-C36) | 1195496 | 154.07 |
| C16 | 5.574 | 0.012 | 1741 | 3388 | OR.DIES (C10-C28) | 1130423 | 88.02 |
| C18 | 6.140 | 0.000 | 2374 | 1908 | OR.MOIL (C28-C40) | 745236 | 98.67 |
| C20 | 6.716 | -0.010 | 4152 | 5622 | JET-A (C10-C18) | 247340 | 16.66 |
| C22 | 7.266 | -0.004 | 4173 | 1638 | MIN.OIL (C24-C38) | 1297873 | 96.56 |
| C24 | 7.785 | 0.006 | 8510 | 13237 | | | |
| C25 | 8.026 | -0.001 | 31014 | 55383 | | | |
| C26 | 8.261 | -0.006 | 15130 | 28424 | | | |
| C28 | 8.712 | -0.007 | 22522 | 47824 | | | |
| C32 | 9.654 | -0.002 | 6078 | 5141 | | | |
| C34 | 10.140 | -0.003 | 4124 | 3216 | | | |
| Filter Peak | 10.512 | 0.004 | 3028 | 1599 | CREOSOT (C12-C22) | 347253 | 94.51 |
| C36 | 10.636 | 0.007 | 2463 | 1946 | | | |
| C38 | 11.119 | 0.006 | 1610 | 906 | | | |
| C40 | 11.598 | 0.005 | 1050 | 556 | | | |
| o-terph | 6.310 | -0.001 | 621966 | 771443 | CRUDE (Tol-C40) | 1972723 | 261.19 |
| Triacon Surr | 9.185 | -0.004 | 570786 | 776108 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 771443 | 44.9 | 99.7 |
| Triacotane | 776108 | 45.3 | 100.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 13:59

Client ID: MS008-SS-120515

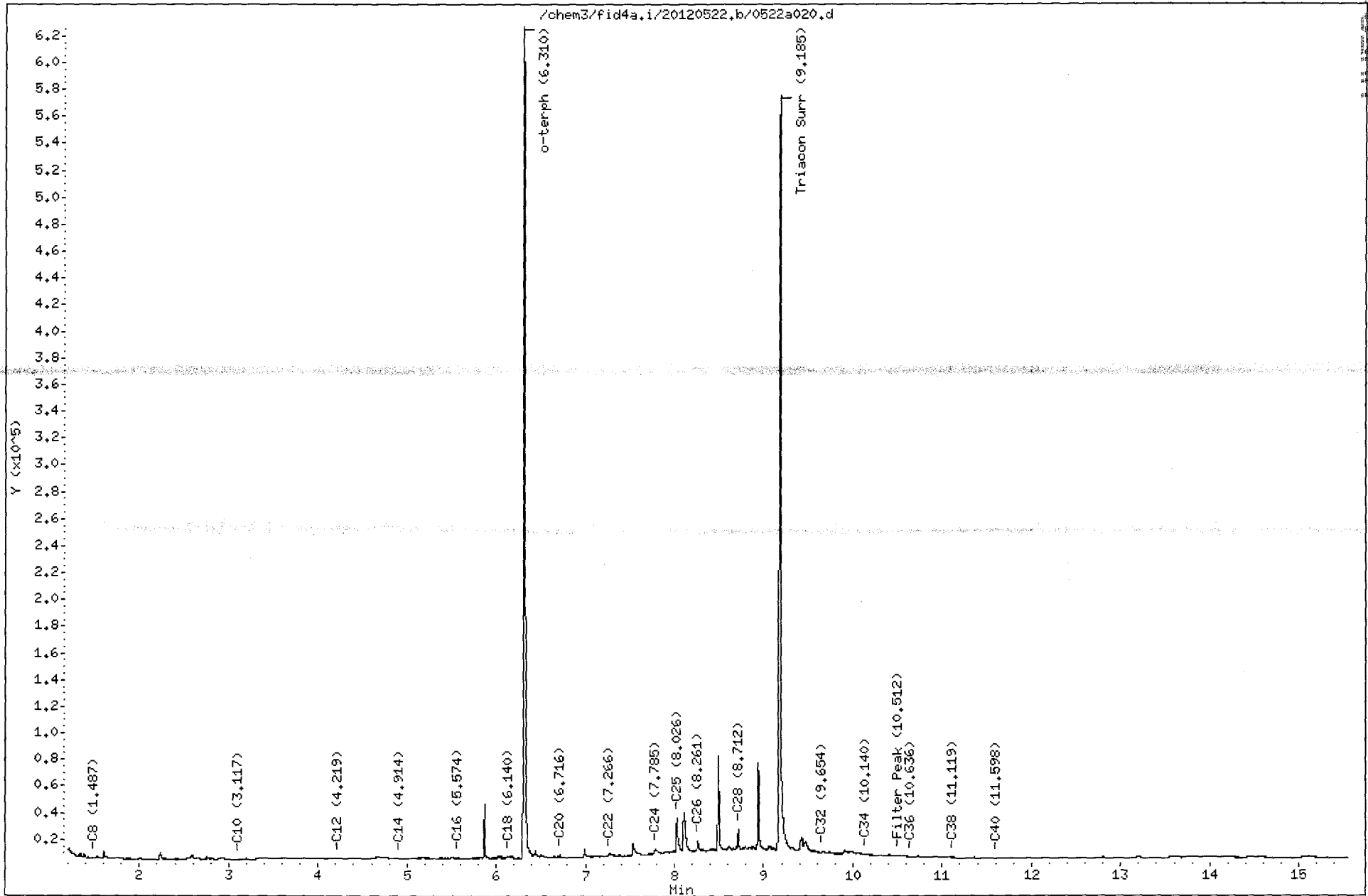
Sample Info: UU52I

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01943

MH
5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a021.d ARI ID: UU52IMS
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID: MS008-SS-120515 MS
 Instrument: fid4a.i Injection: 22-MAY-2012 14:23
 Operator: MH
 Report Date: 05/23/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-----------|
| Toluene | 1.266 | -0.002 | 3578 | 6441 | GAS (Tol-C12) | 3569270 | 237.26 |
| C8 | 1.479 | 0.010 | 1670 | 1509 | DIESEL (C12-C24) | 14879601 | 1091.84 |
| C10 | 3.126 | 0.002 | 73231 | 64245 | M.OIL (C24-C38) | 1340248 | 137.47 |
| C12 | 4.217 | 0.000 | 50509 | 70755 | AK-102 (C10-C25) | 17607386 | 1087.35 M |
| C14 | 4.925 | -0.003 | 91959 | 114494 | AK-103 (C25-C36) | 1210468 | 156.00 |
| C16 | 5.566 | 0.005 | 103796 | 209339 | OR.DIES (C10-C28) | 18193235 | 1416.59 M |
| C18 | 6.138 | -0.002 | 423031 | 427922 | OR.MOIL (C28-C40) | 671511 | 88.91 |
| C20 | 6.732 | 0.007 | 65858 | 84232 | JET-A (C10-C18) | 12673336 | 853.88 |
| C22 | 7.261 | -0.009 | 122681 | 212320 | MIN.OIL (C24-C38) | 1340248 | 99.72 |
| C24 | 7.781 | 0.002 | 38291 | 73969 | | | |
| C25 | 8.027 | 0.000 | 47691 | 97041 | | | |
| C26 | 8.263 | -0.004 | 20818 | 39212 | | | |
| C28 | 8.713 | -0.006 | 22559 | 37933 | | | |
| C32 | 9.657 | 0.001 | 5699 | 10715 | | | |
| C34 | 10.144 | 0.001 | 3676 | 1812 | | | |
| Filter Peak | 10.518 | 0.011 | 2400 | 2629 | CREOSOT (C12-C22) | 14214426 | 3868.76 M |
| C36 | 10.634 | 0.005 | 1865 | 1653 | | | |
| C38 | 11.109 | -0.004 | 886 | 707 | | | |
| C40 | 11.597 | 0.004 | 305 | 191 | | | |
| o-terph | 6.314 | 0.003 | 841454 | 776827 | CRUDE (Tol-C40) | 19801553 | 2621.77 M |
| Triacon Surr | 9.185 | -0.004 | 588089 | 789620 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 776827 | 45.2 | 100.4 |
| Triacotane | 789620 | 46.1 | 102.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 14:23

Client ID: MS008-SS-120515 MS

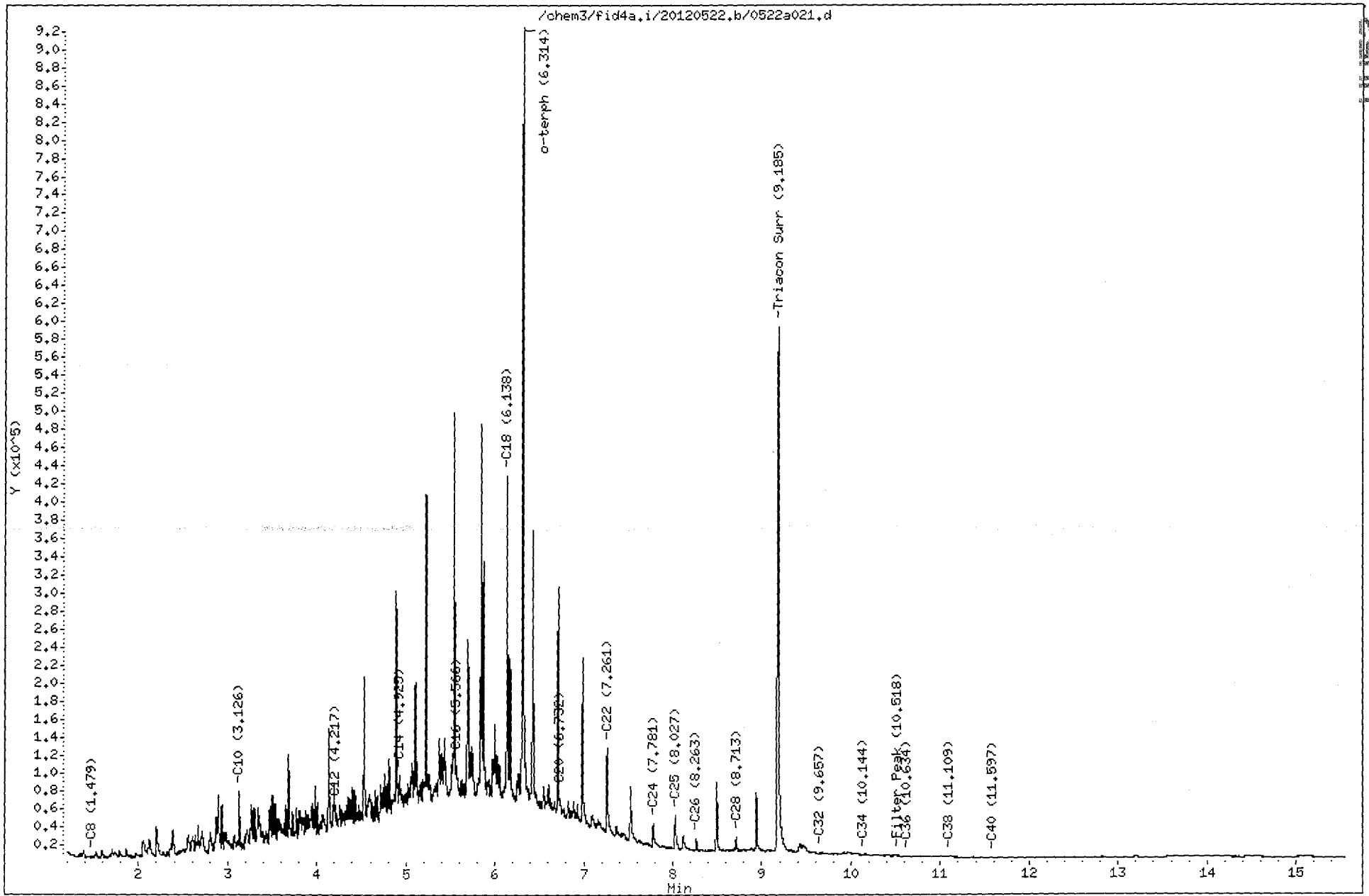
Sample Info: UUS2IMS

Instrument: fid4a.i

Operator: MH

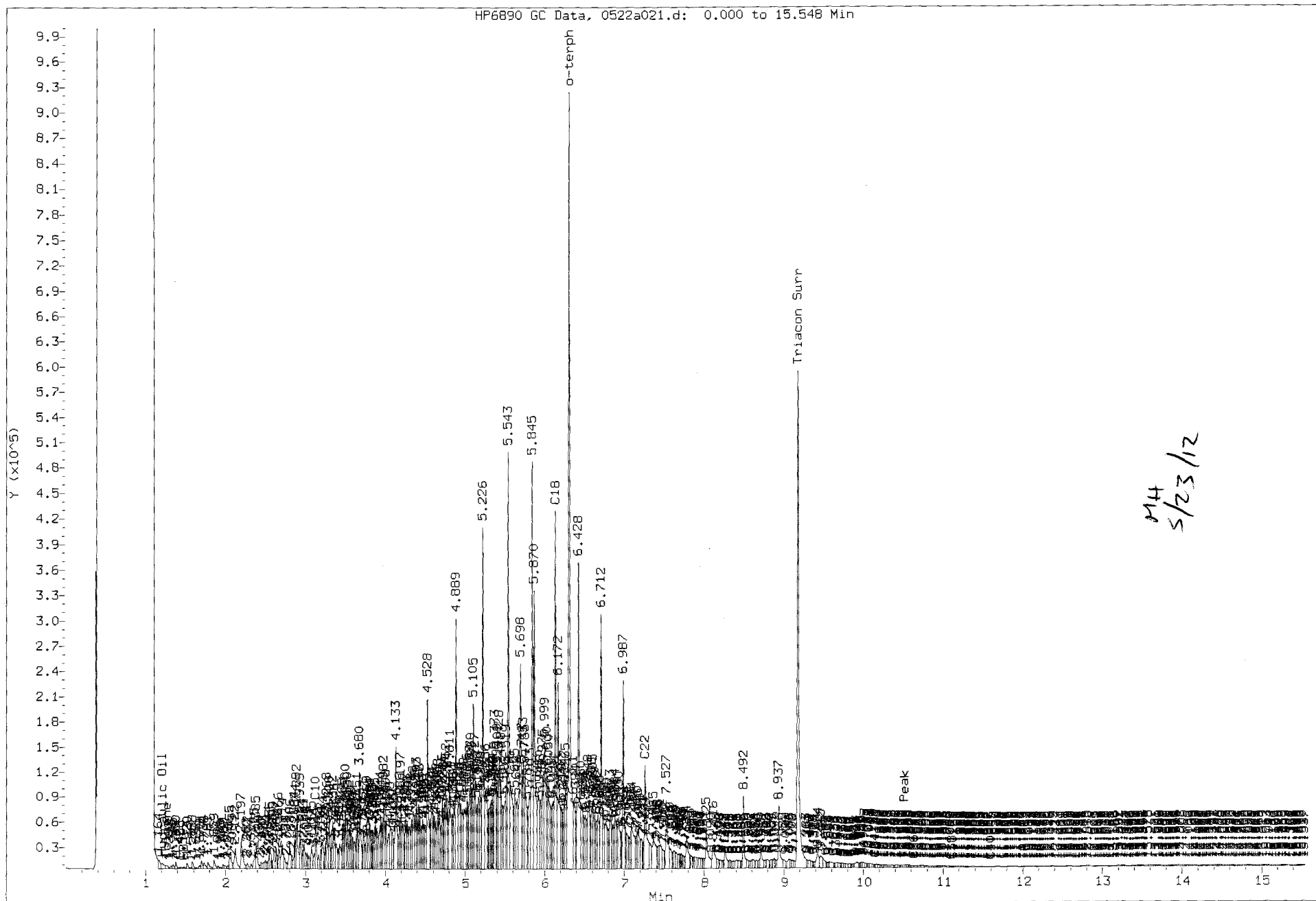
Column diameter: 0.25

Column phase: RTX-1

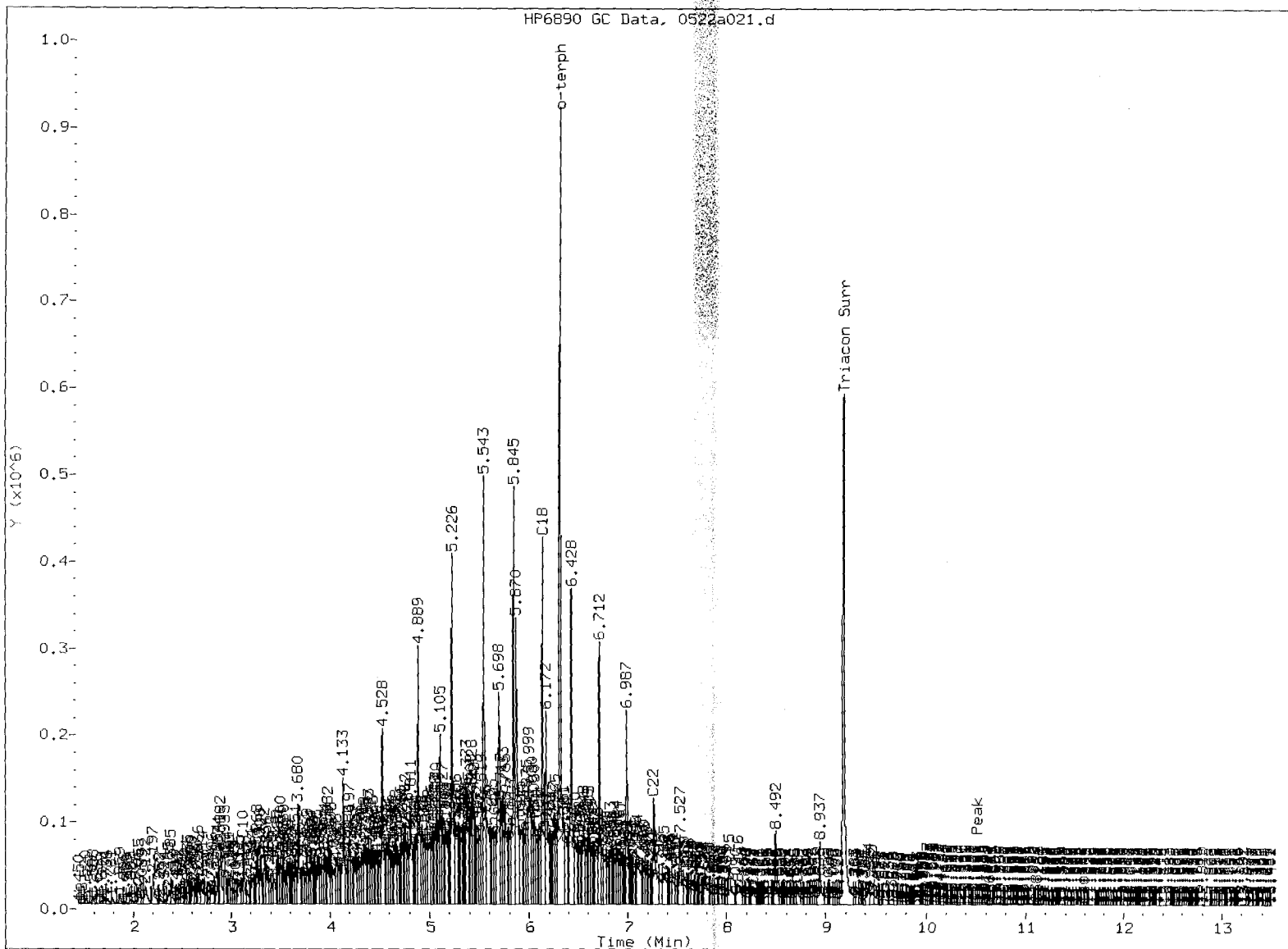


UUS2-01945

Data File: /chem3/fid4a.i/20120522.b/0522a021.d
Injection Date: 22-MAY-2012 14:23
Instrument: fid4a.i
Client Sample ID: MS008-SS-120515 MS



UUS2:01946



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a022.d
Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: UU52IMSD
Client ID: MS008-SS-120515 MSD
Injection: 22-MAY-2012 14:48

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-----------|
| Toluene | 1.261 | -0.008 | 3886 | 9082 | GAS (Tol-C12) | 3861810 | 256.70 |
| C8 | 1.474 | 0.004 | 1795 | 1660 | DIESEL (C12-C24) | 15220156 | 1116.83 |
| C10 | 3.125 | 0.000 | 81088 | 69034 | M.OIL (C24-C38) | 1149488 | 117.90 |
| C12 | 4.215 | -0.002 | 52309 | 41037 | AK-102 (C10-C25) | 18077962 | 1116.41 M |
| C14 | 4.925 | -0.003 | 94984 | 124899 | AK-103 (C25-C36) | 1031561 | 132.94 |
| C16 | 5.567 | 0.005 | 109924 | 200718 | OR.DIES (C10-C28) | 18555733 | 1444.81 M |
| C18 | 6.139 | -0.002 | 445686 | 458356 | OR.MOIL (C28-C40) | 600045 | 79.45 |
| C20 | 6.736 | 0.010 | 66284 | 77183 | JET-A (C10-C18) | 13256897 | 893.20 |
| C22 | 7.263 | -0.007 | 125024 | 215442 | MIN.OIL (C24-C38) | 1149488 | 85.52 |
| C24 | 7.784 | 0.004 | 38472 | 74564 | | | |
| C25 | 8.029 | 0.002 | 43372 | 79429 | | | |
| C26 | 8.264 | -0.003 | 21117 | 35960 | | | |
| C28 | 8.715 | -0.004 | 22812 | 33405 | | | |
| C32 | 9.650 | -0.007 | 4673 | 2280 | | | |
| C34 | 10.146 | 0.002 | 3324 | 782 | | | |
| Filter Peak | 10.499 | -0.009 | 2279 | 3004 | CREOSOT (C12-C22) | 14537207 | 3956.61 M |
| C36 | 10.636 | 0.007 | 1690 | 2057 | | | |
| C38 | 11.113 | 0.000 | 862 | 844 | | | |
| C40 | 11.598 | 0.005 | 284 | 199 | | | |
| o-terph | 6.315 | 0.004 | 918709 | 815372 | CRUDE (Tol-C40) | 20243624 | 2680.30 M |
| Triacon Surr | 9.187 | -0.003 | 562764 | 804282 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 815372 | 47.4 | 105.4 |
| Triacontane | 804282 | 46.9 | 104.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52:01948

Date : 22-MAY-2012 14:48

Client ID: MS008-SS-120515 MSD

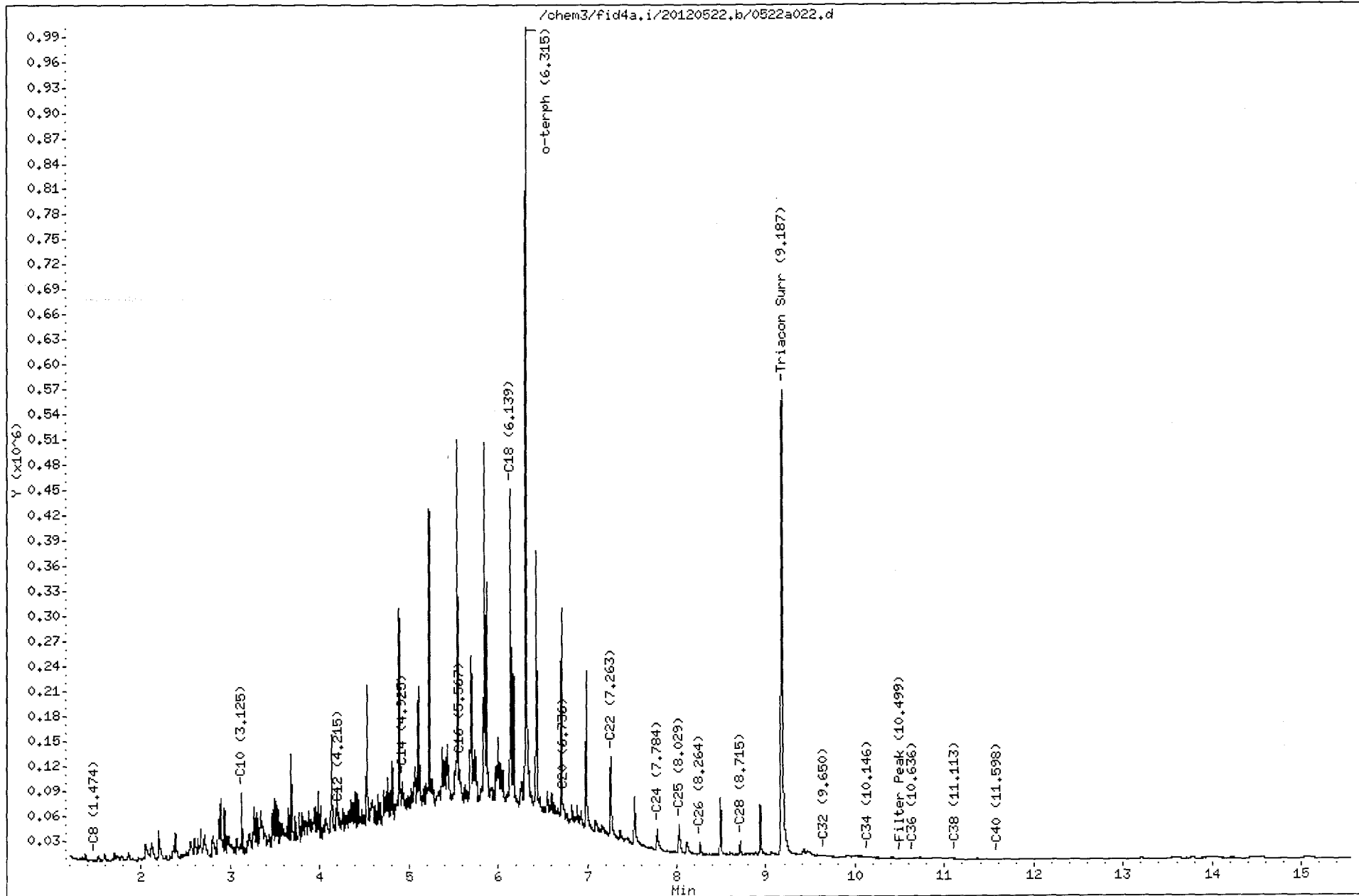
Sample Info: UU52IHSD

Instrument: fid4a.i

Operator: MH

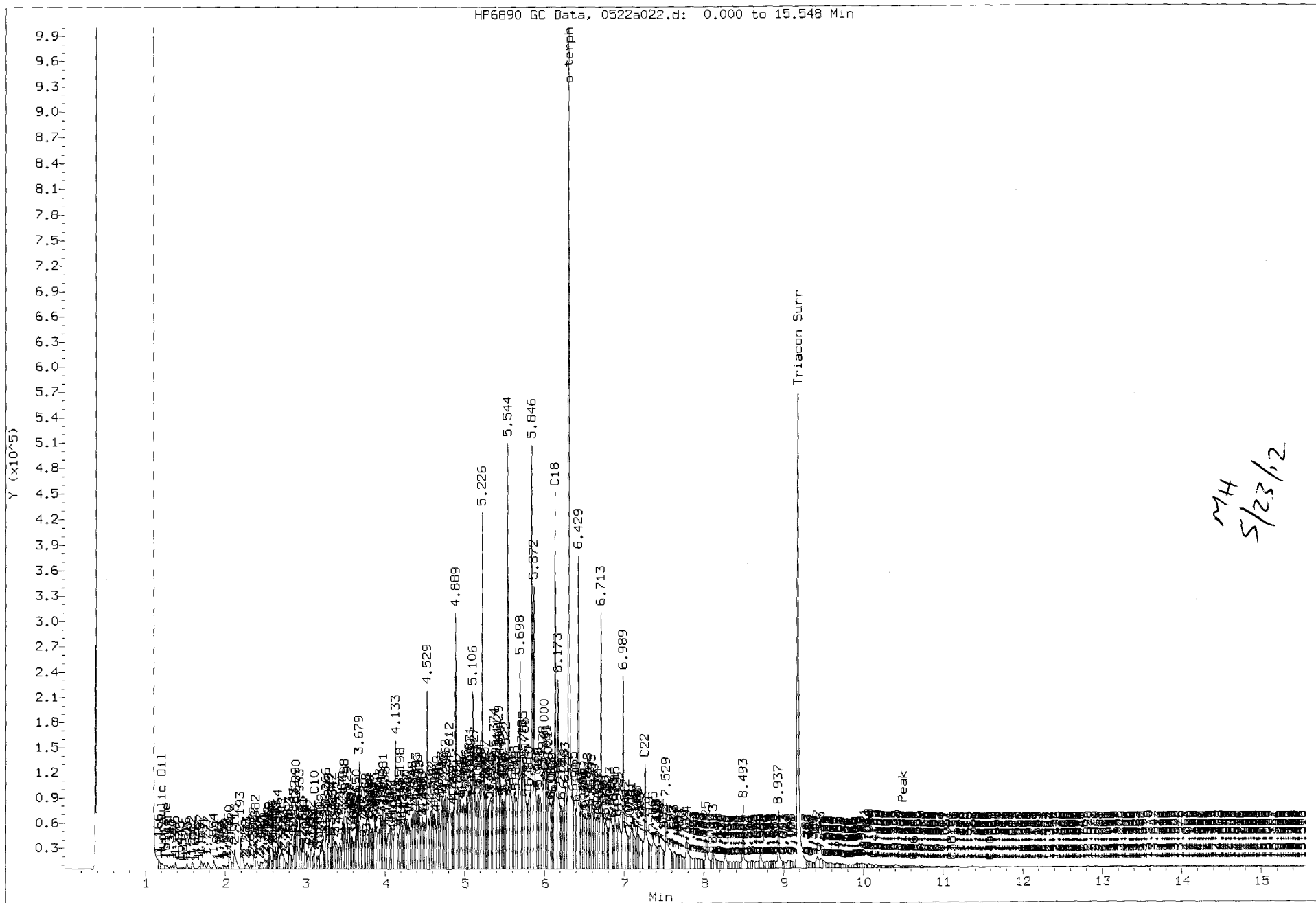
Column diameter: 0.25

Column phase: RTX-1

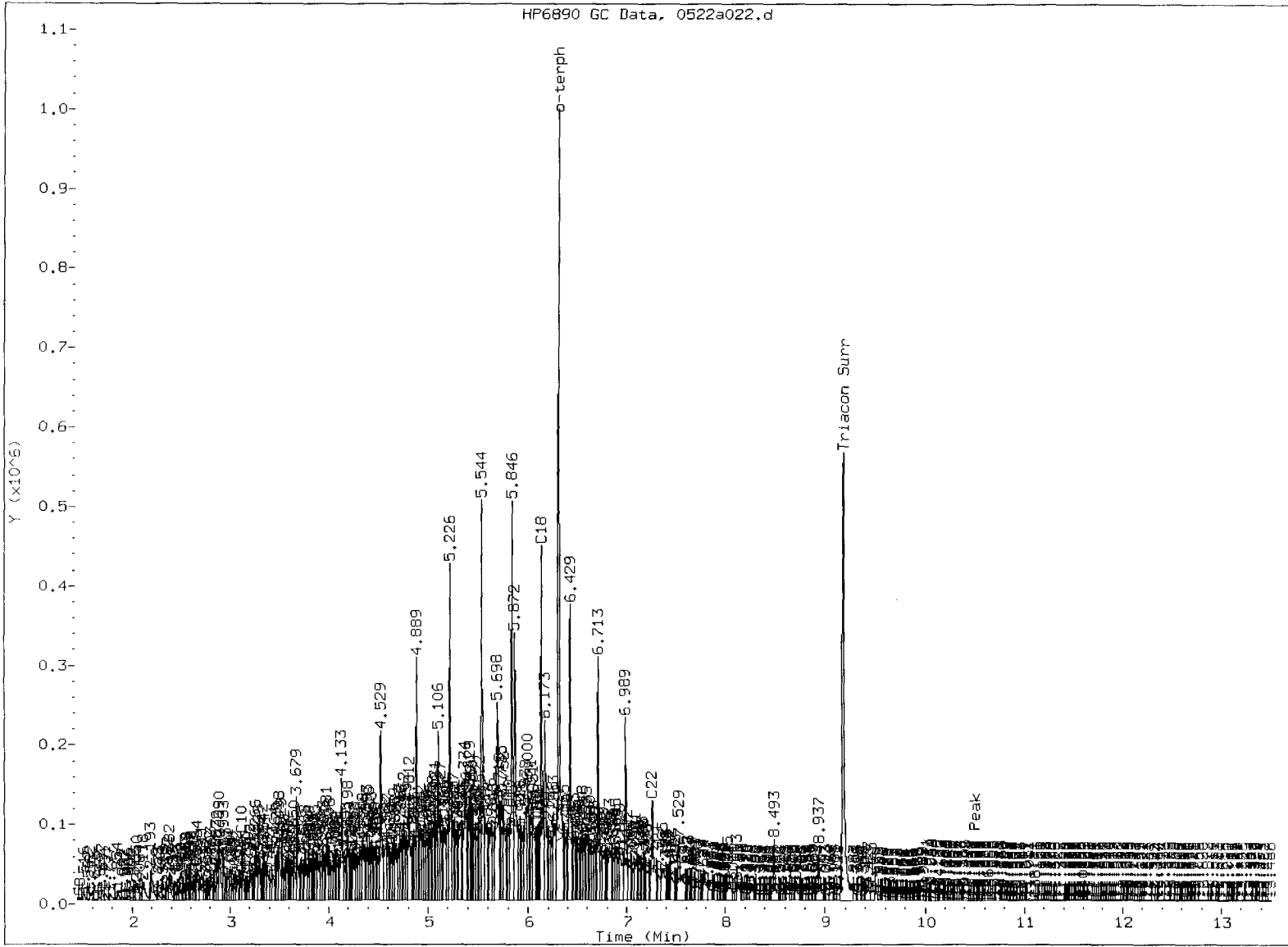


UU52-01919

Data File: /chem3/fid4a.i/20120522.b/0522a022.d
Injection Date: 22-MAY-2012 14:48
Instrument: fid4a.i
Client Sample ID: MS008-SS-120515 MSD



0522:01950



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120522.b/0522a023.d

ARI ID: UU52J

Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m

Client ID: MS009-SS-120515

Instrument: fid4a.i

Injection: 22-MAY-2012 15:13

Operator: MH

Report Date: 05/23/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.315 | 0.047 | 2893 | 2854 | GAS (Tol-C12) | 145766 | 9.69 |
| C8 | 1.501 | 0.032 | 746 | 832 | DIESEL (C12-C24) | 620606 | 45.54 |
| C10 | 3.123 | -0.001 | 592 | 1396 | M.OIL (C24-C38) | 909853 | 93.32 |
| C12 | 4.215 | -0.002 | 1044 | 496 | AK-102 (C10-C25) | 725135 | 44.78 |
| C14 | 4.961 | 0.033 | 2559 | 7382 | AK-103 (C25-C36) | 838237 | 108.03 |
| C16 | 5.562 | 0.001 | 5099 | 11323 | OR.DIES (C10-C28) | 1095675 | 85.31 |
| C18 | 6.139 | -0.001 | 7155 | 11843 | OR.MOIL (C28-C40) | 531983 | 70.44 |
| C20 | 6.735 | 0.009 | 2002 | 663 | JET-A (C10-C18) | 437001 | 29.44 |
| C22 | 7.260 | -0.010 | 4995 | 8553 | MIN.OIL (C24-C38) | 909853 | 67.69 |
| C24 | 7.768 | -0.011 | 3330 | 1815 | | | |
| C25 | 8.035 | 0.008 | 24716 | 48759 | | | |
| C26 | 8.266 | -0.001 | 11820 | 22390 | | | |
| C28 | 8.715 | -0.005 | 18593 | 30922 | | | |
| C32 | 9.651 | -0.005 | 4109 | 2571 | | | |
| C34 | 10.139 | -0.005 | 3321 | 4977 | | | |
| Filter Peak | 10.508 | 0.000 | 2252 | 2657 | CREOSOT (C12-C22) | 515018 | 140.17 |
| C36 | 10.646 | 0.017 | 1875 | 1508 | | | |
| C38 | 11.115 | 0.001 | 1190 | 1172 | | | |
| C40 | 11.602 | 0.009 | 789 | 991 | | | |
| o-terph | 6.309 | -0.002 | 658975 | 783692 | CRUDE (Tol-C40) | 1699449 | 225.01 |
| Triacon Surr | 9.184 | -0.005 | 530320 | 760655 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 783692 | 45.6 | 101.3 |
| Triacontane | 760655 | 44.4 | 98.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52 : 01952

Date : 22-MAY-2012 15:13

Client ID: MS009-SS-120515

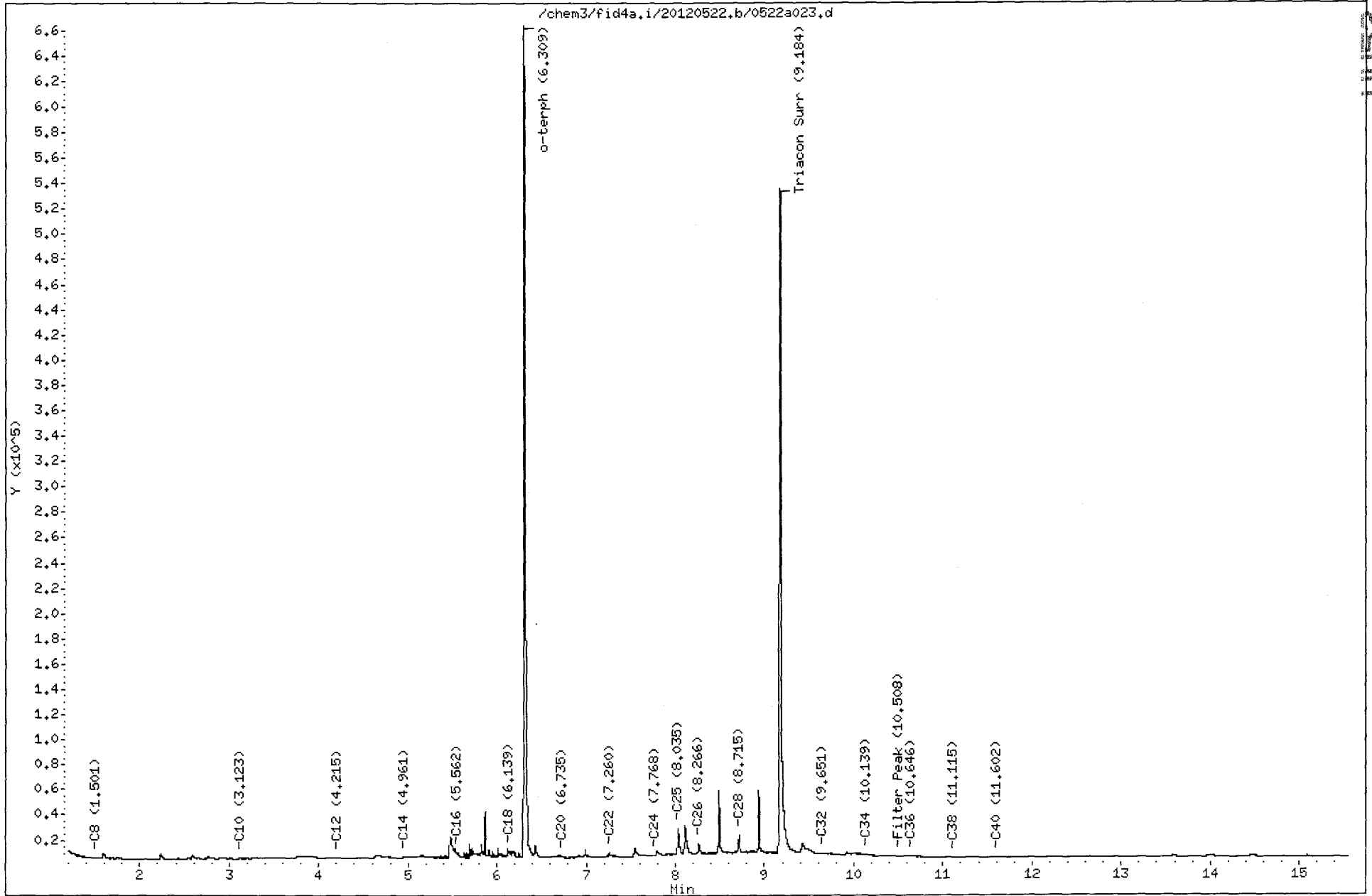
Sample Info: UU52J

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01553

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a024.d ARI ID: DIESEL #3
 Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 22-MAY-2012 15:37
 Operator: MH Dilution Factor: 1
 Report Date: 05/23/2012
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.313 | 0.044 | 2757 | 3760 | GAS (Tol-C12) | 941014 | 62.55 |
| C8 | 1.476 | 0.007 | 1300 | 1968 | DIESEL (C12-C24) | 3577293 | 262.50 |
| C10 | 3.127 | 0.002 | 4459 | 4165 | M.OIL (C24-C38) | 113882 | 11.68 |
| C12 | 4.212 | -0.005 | 13393 | 18446 | AK-102 (C10-C25) | 4275348 | 264.02 M |
| C14 | 4.940 | 0.012 | 24622 | 63173 | AK-103 (C25-C36) | 87003 | 11.21 |
| C16 | 5.549 | -0.013 | 79280 | 108373 | OR.DIES (C10-C28) | 4343513 | 338.20 M |
| C18 | 6.137 | -0.004 | 57359 | 79945 | OR.MOIL (C28-C40) | 23594 | 3.12 |
| C20 | 6.738 | 0.012 | 24208 | 78380 | JET-A (C10-C18) | 3170726 | 213.63 |
| C22 | 7.254 | -0.016 | 7595 | 9772 | MIN.OIL (C24-C38) | 113882 | 8.47 |
| C24 | 7.786 | 0.007 | 3383 | 3012 | | | |
| C25 | 8.028 | 0.002 | 2223 | 834 | | | |
| C26 | 8.273 | 0.006 | 2366 | 3214 | | | |
| C28 | 8.733 | 0.013 | 956 | 2426 | | | |
| C32 | 9.659 | 0.003 | 167 | 147 | | | |
| C34 | 10.151 | 0.007 | 56 | 54 | | | |
| Filter Peak | 10.503 | -0.005 | 32 | 21 | CREOSOT (C12-C22) | 3440353 | 936.37 M |
| C36 | 10.633 | 0.004 | 27 | 6 | | | |
| C38 | 11.125 | 0.012 | 54 | 65 | | | |
| C40 | 11.585 | -0.009 | 106 | 171 | | | |
| o-terph | 6.312 | 0.000 | 686942 | 796052 | CRUDE (Tol-C40) | 4634836 | 613.66 M |
| Triacon Surr | 9.196 | 0.007 | 286 | 402 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 796052 | 46.3 | 102.9 |
| Triacontane | 402 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 15:37

Client ID:

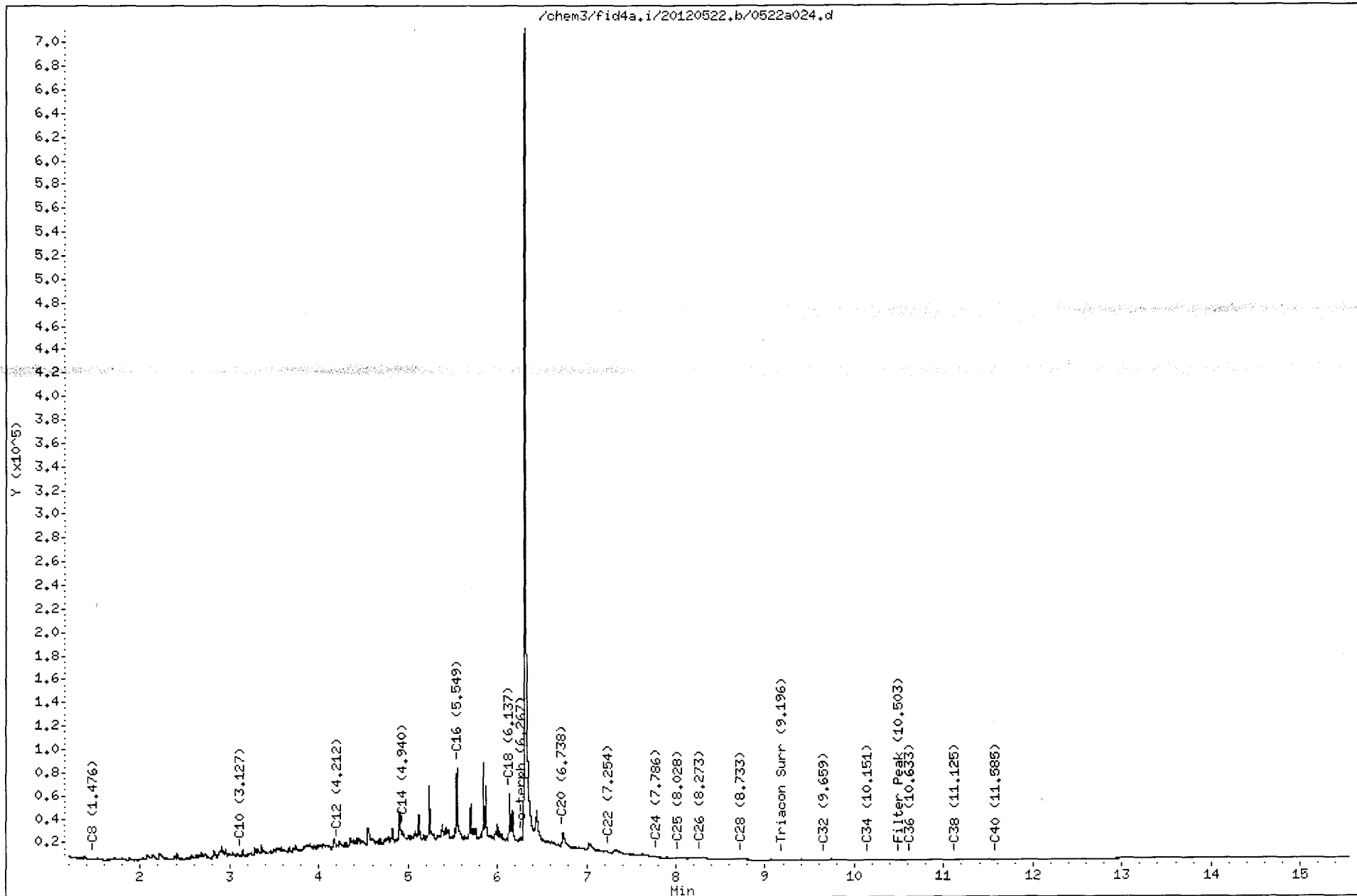
Instrument: fid4a.i

Sample Info: DIESEL #3

Operator: MH

Column phase: RTX-1

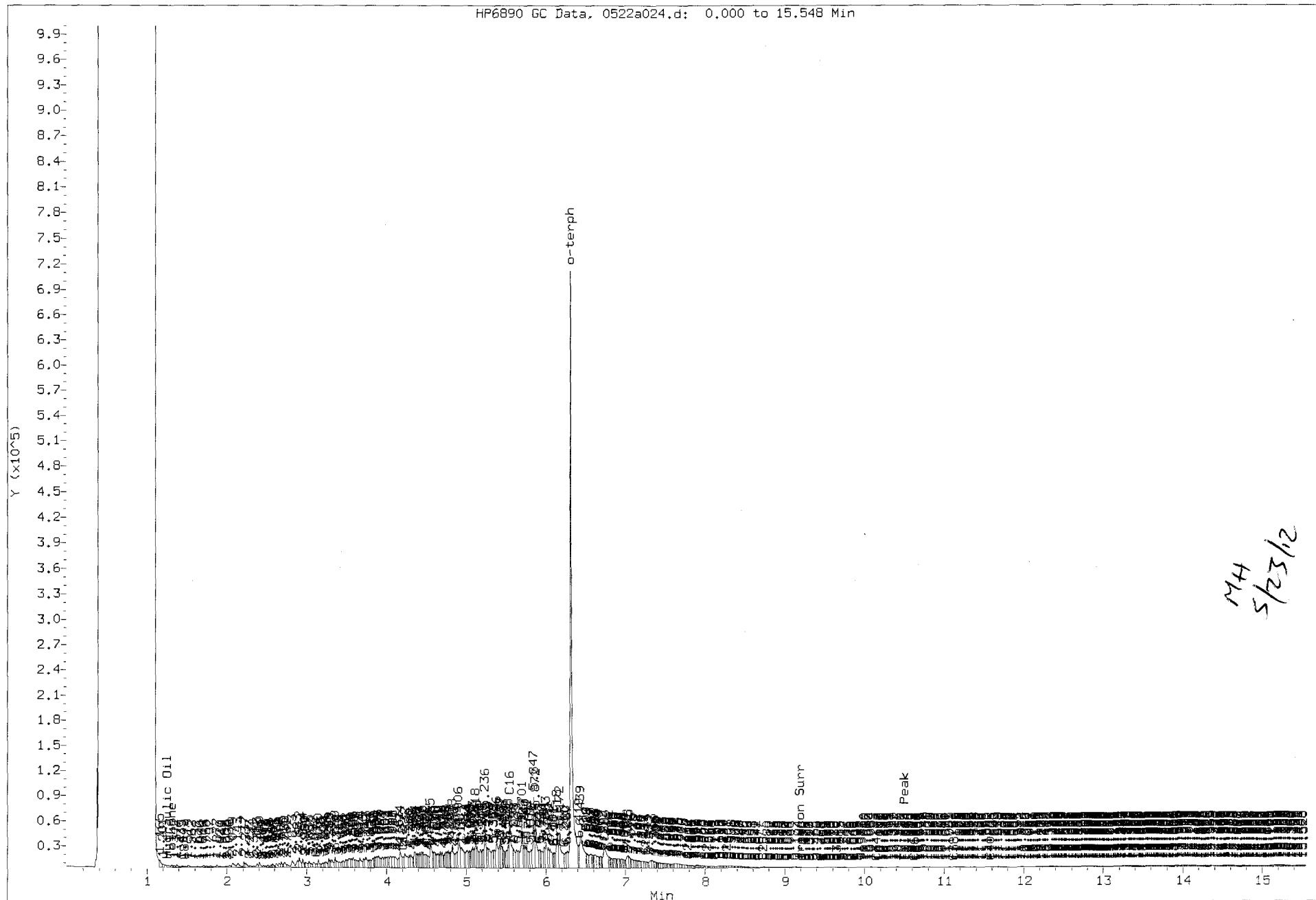
Column diameter: 0.25



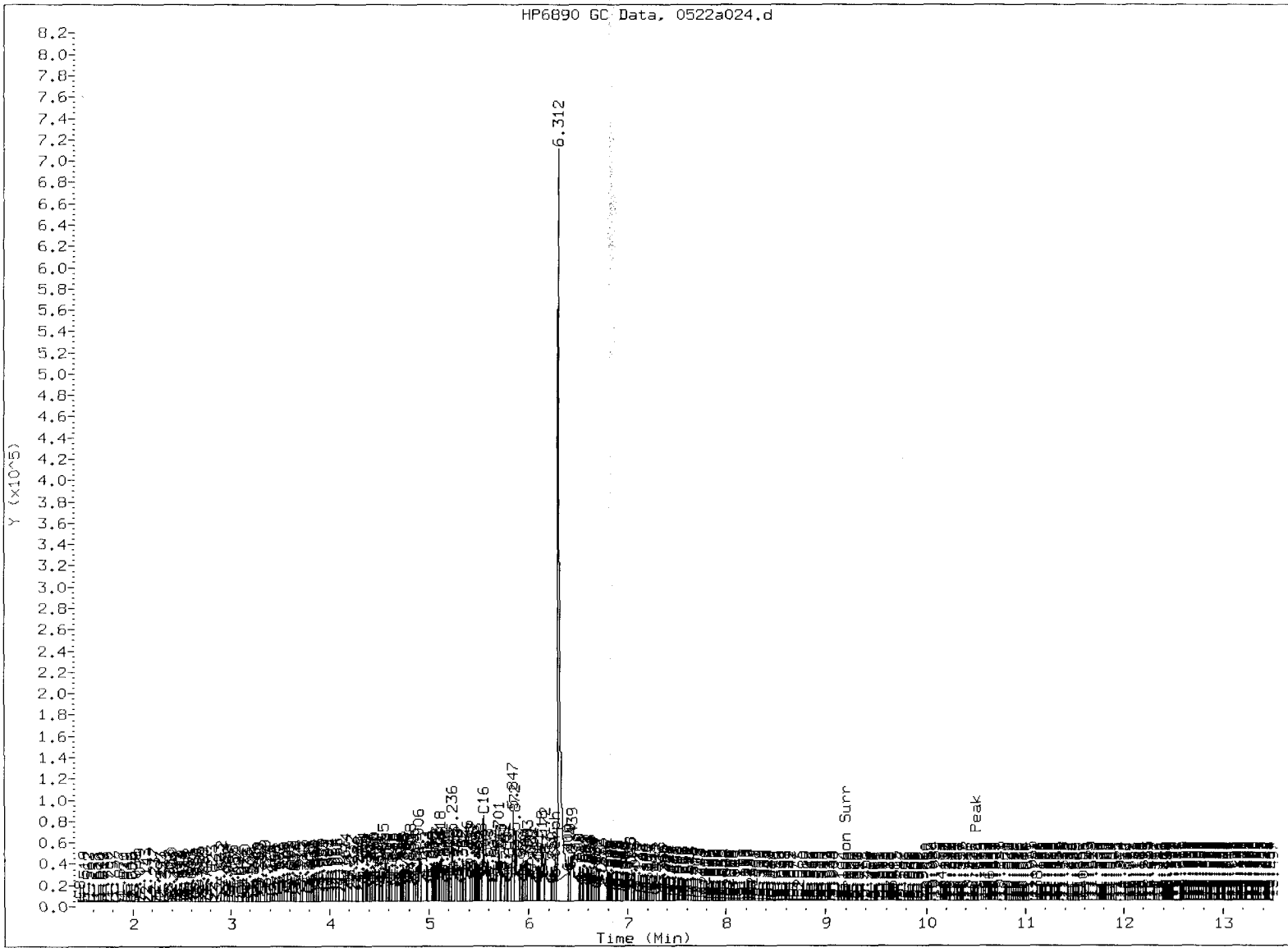
0052-01955

Data File: /chem3/fid4a.i/20120522.b/0522a024.d
Injection Date: 22-MAY-2012 15:37
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0522a024.d: 0.000 to 15.548 Min



0522:01956



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/23/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/23/12

Data file: /chem3/fid4a.i/20120522.b/0522a025.d
Method: /chem3/fid4a.i/20120522.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/23/2012
Macro: 15-MAY-2012

ARI ID: MOIL #3
Client ID:
Injection: 22-MAY-2012 16:01
Dilution Factor: 1

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.266 | -0.003 | 32677 | 74168 | GAS (Tol-C12) | 153474 | 10.20 |
| C8 | 1.519 | 0.050 | 841 | 783 | DIESEL (C12-C24) | 554082 | 40.66 |
| C10 | 3.122 | -0.003 | 405 | 236 | M.OIL (C24-C38) | 4642811 | 476.20 |
| C12 | 4.234 | 0.017 | 533 | 323 | AK-102 (C10-C25) | 785901 | 48.53 |
| C14 | 4.934 | 0.006 | 470 | 687 | AK-103 (C25-C36) | 4213139 | 542.98 M |
| C16 | 5.557 | -0.005 | 440 | 732 | OR.DIES (C10-C28) | 2231817 | 173.78 |
| C18 | 6.115 | -0.025 | 748 | 2295 | OR.MOIL (C28-C40) | 3138606 | 415.56 M |
| C20 | 6.731 | 0.005 | 973 | 1560 | JET-A (C10-C18) | 80518 | 5.43 |
| C22 | 7.270 | 0.000 | 4758 | 4111 | MIN.OIL (C24-C38) | 4642811 | 345.43 M |
| C24 | 7.784 | 0.005 | 20461 | 9254 | | | |
| C25 | 8.030 | 0.003 | 26308 | 17186 | | | |
| C26 | 8.267 | 0.000 | 31022 | 24685 | | | |
| C28 | 8.715 | -0.005 | 34422 | 50645 | | | |
| C32 | 9.656 | -0.001 | 29161 | 43232 | | | |
| C34 | 10.142 | -0.002 | 21227 | 18977 | | | |
| Filter Peak | 10.502 | -0.006 | 14674 | 16563 | CREOSOT (C12-C22) | 155029 | 42.19 |
| C36 | 10.625 | -0.004 | 12763 | 17412 | | | |
| C38 | 11.120 | 0.006 | 7186 | 3170 | | | |
| C40 | 11.590 | -0.004 | 3912 | 3164 | | | |
| o-terph | 6.315 | 0.004 | 494 | 326 | CRUDE (Tol-C40) | 5488979 | 726.75 M |
| Triacon Surr | 9.190 | 0.001 | 666221 | 758370 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.217 - 7.779) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.11) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 326 | 0.0 | 0.0 |
| Triacontane | 758370 | 44.2 | 98.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 22-MAY-2012 16:01

Client ID:

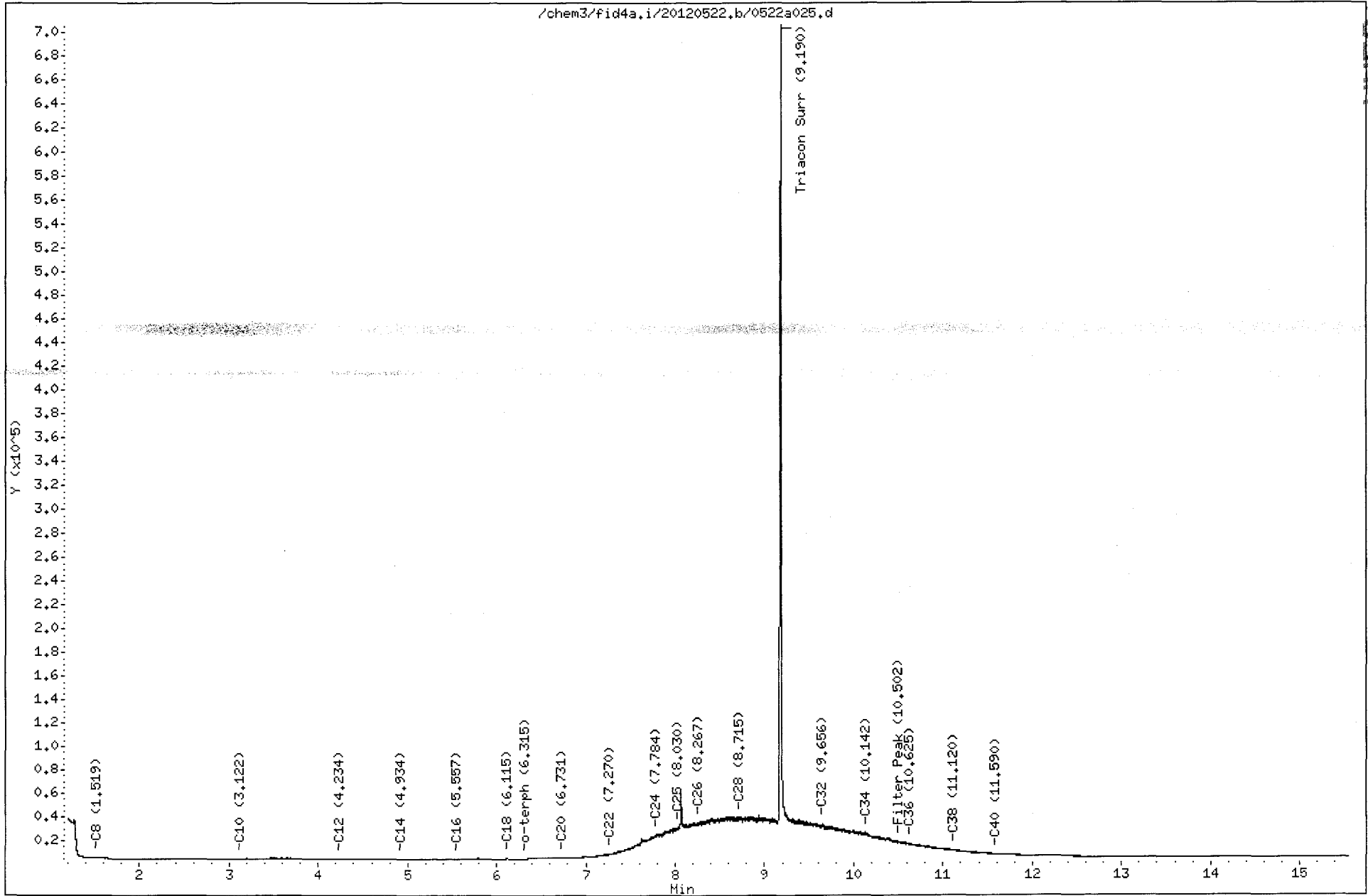
Sample Info: MOIL #3

Column phase: RTX-1

Instrument: fid4a.i

Operator: MH

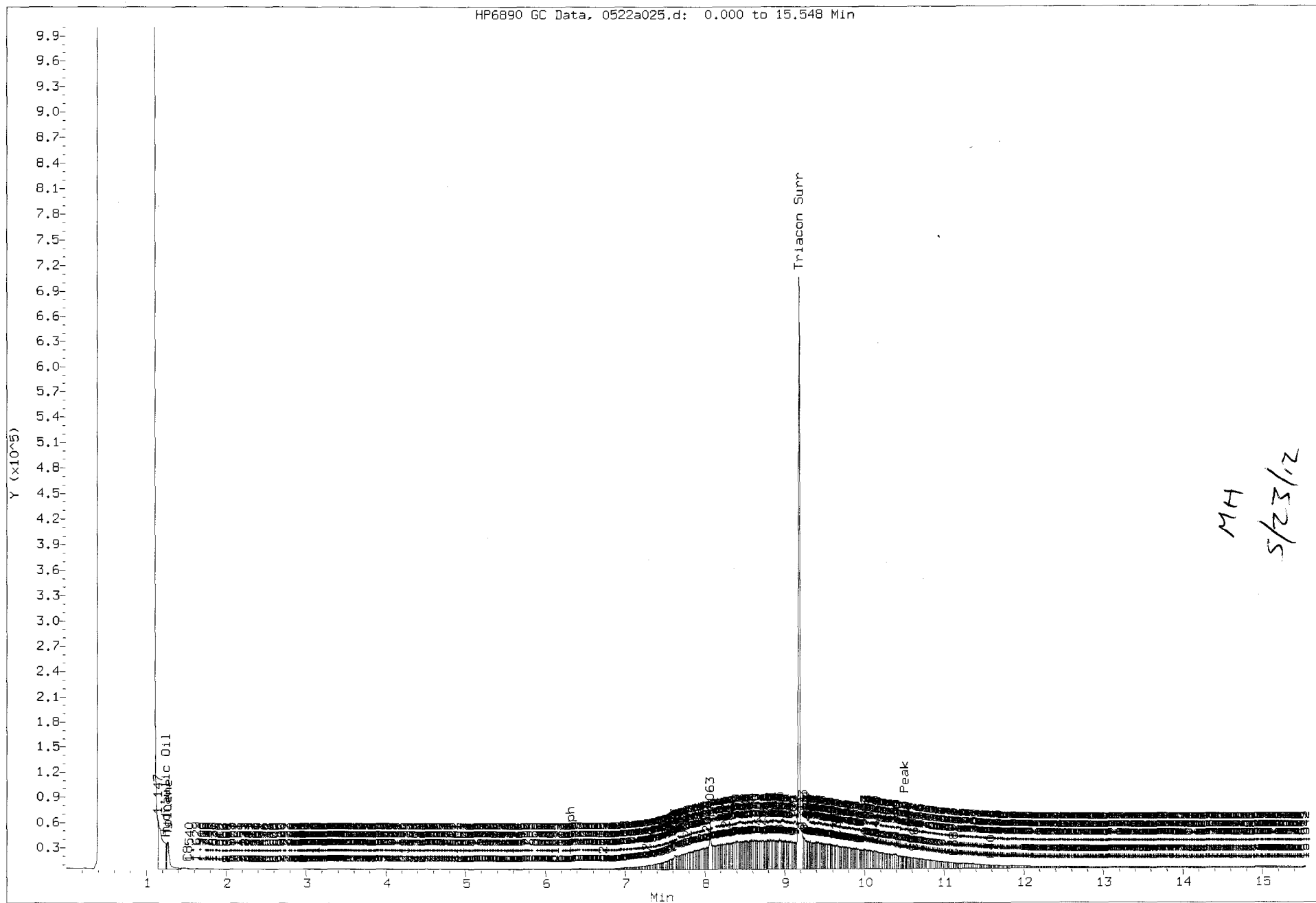
Column diameter: 0.25



0052:01959

Data File: /chem3/fid4a.i/20120522.b/0522a025.d
Injection Date: 22-MAY-2012 16:01
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0522a025.d: 0.000 to 15.548 Min

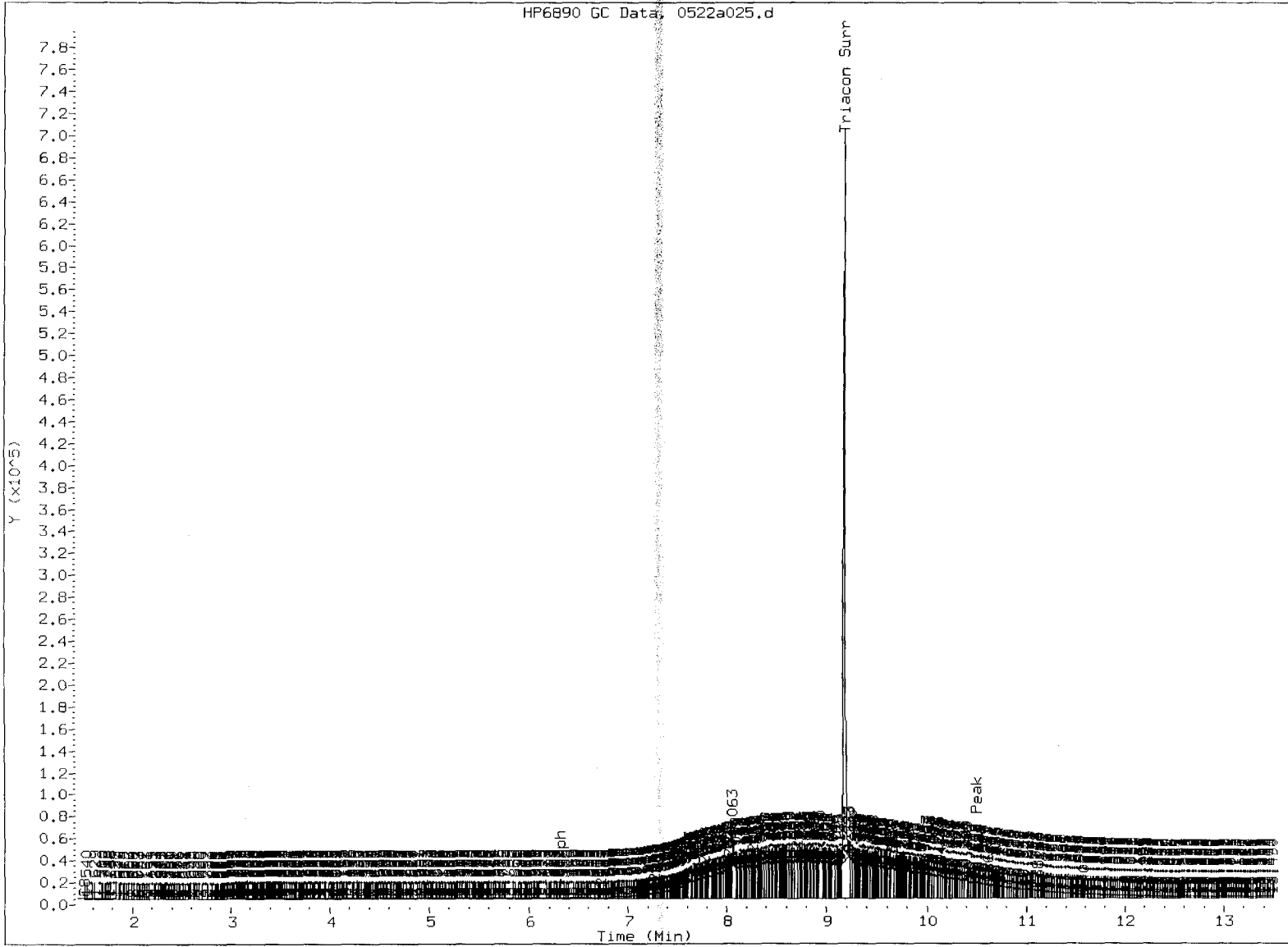


UUS2: 01960

FID:4A-2C/RTX-1 MOIL #3

FID:4A SIGNAL

HP6890 GC Data: 0522a025.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MA Date: 5/23/12



GC Analyst Notes / Corrective Action Log

ARI Project ID: 0062 Client ID: Anchor QEA, LLC

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): A/S NwTP4D + M.011

Instrument: FID-3A FID-3B **FID-4A** FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: at 5/14/12 M oil Analysis Start: 5/21/12
5/15/12 Diesel

| | | | |
|-----------------------------------|----------------------|----------------------------------|----------------------|
| 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 |
| Manual Integrations for ICal? | YES / NO | Manual Integrations for Samples? | YES / NO |
| Internal Standard Meets Criteria? | YES / NO / NA | Special Analysis Criteria Met? | YES / NO / NO |

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/22/12
Reviewer: [Signature] Date: 5/22

Analytical Resources Inc.: Organics Instrument Log

FID-4A Serial No.: US00003247

Date: 5/21/12 Analysis: NWTPHD Analyst: MH
Column 1 Serial No.: 977444 Column Type: RTX-1
Column 2 Serial No.: _____ Column Type: _____
GC Method: TPH ICal Date: 5/15/12 Diesel
5/14/12 MOIL Injection Volume: 1ul

| IS | Ical/Ccal | ICV |
|------------------|---------------|------------------|
| _____ | <u>1932-1</u> | _____ |
| _____ | <u>1960-1</u> | _____ |
| _____ | <u>1972-1</u> | _____ |
| _____ | <u>1971-3</u> | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Document All Maintenance Tasks In StarLIMS

| Inject Date/Time | Filename | DF | LabID |
|----------------------|------------|----|------------|
| 1 21-MAY-2012 09:13 | 0521a001.d | 1 | RINSE |
| 2 21-MAY-2012 09:36 | 0521a002.d | 1 | RT |
| 3 21-MAY-2012 10:01 | 0521a003.d | 1 | IB |
| 4 21-MAY-2012 10:25 | 0521a004.d | 1 | DIESEL #1 |
| 5 21-MAY-2012 10:49 | 0521a005.d | 1 | MOIL #1 |
| 6 21-MAY-2012 11:44 | 0521a006.d | 1 | UU62MBW1 |
| 7 21-MAY-2012 12:08 | 0521a007.d | 1 | UU62LCSW1 |
| 8 21-MAY-2012 12:33 | 0521a008.d | 1 | UU62LCSDW1 |
| 9 21-MAY-2012 12:57 | 0521a009.d | 1 | UU62QLS |
| 10 21-MAY-2012 13:22 | 0521a010.d | 1 | UU62J |
| 11 21-MAY-2012 13:46 | 0521a011.d | 1 | UU62K |
| 12 21-MAY-2012 14:11 | 0521a012.d | 1 | UU74A |
| 13 21-MAY-2012 14:35 | 0521a013.d | 1 | UU74B |
| 14 21-MAY-2012 15:00 | 0521a014.d | 1 | UU74C |
| 15 21-MAY-2012 15:24 | 0521a015.d | 1 | UU74D |
| 16 21-MAY-2012 15:49 | 0521a016.d | 1 | UU74E |
| 17 21-MAY-2012 16:13 | 0521a017.d | 1 | DIESEL #2 |
| 18 21-MAY-2012 16:37 | 0521a018.d | 1 | MOIL #2 |
| 19 21-MAY-2012 17:02 | 0521a019.d | 1 | UU68MBW1 |
| 20 21-MAY-2012 17:26 | 0521a020.d | 1 | UU68LCSW1 |
| 21 21-MAY-2012 17:50 | 0521a021.d | 1 | UU68LCSDW1 |
| 22 21-MAY-2012 18:14 | 0521a022.d | 1 | UU68A |
| 23 21-MAY-2012 18:39 | 0521a023.d | 1 | UU66A |
| 24 21-MAY-2012 19:03 | 0521a024.d | 1 | UU66B |
| 25 21-MAY-2012 19:27 | 0521a025.d | 1 | DIESEL #3 |
| 26 21-MAY-2012 19:51 | 0521a026.d | 1 | MOIL #3 |
| 27 21-MAY-2012 20:15 | 0521a027.d | 1 | UU96MBS1 |
| 28 21-MAY-2012 20:39 | 0521a028.d | 1 | UU96LCSS1 |
| 29 21-MAY-2012 21:03 | 0521a029.d | 1 | UU96LCSDS1 |
| 30 21-MAY-2012 21:28 | 0521a030.d | 1 | UU96A |
| 31 21-MAY-2012 21:52 | 0521a031.d | 1 | DIESEL #4 |
| 32 21-MAY-2012 22:16 | 0521a032.d | 1 | MOIL #4 |

MH 5/22/12

Every line must contain information or be lined out. Make all entries legible.
Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

MH
5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120521.b/0521a002.d ARI ID: RT
 Method: /chem3/fid4a.i/20120521.b/ftp4a.m Client ID:
 Instrument: fid4a.i Injection: 21-MAY-2012 09:36
 Operator: MH
 Report Date: 05/22/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|-------|--------|--------|-------------------|------------|--------|
| Toluene | 1.261 | 0.000 | 533873 | 430402 | GAS (Tol-C12) | 1209908 | 80.43 |
| C8 | 1.469 | 0.000 | 269194 | 259383 | DIESEL (C12-C24) | 1553423 | 113.99 |
| C10 | 3.123 | 0.000 | 114234 | 176363 | M.OIL (C24-C38) | 1694634 | 173.82 |
| C12 | 4.202 | 0.000 | 41963 | 135228 | AK-102 (C10-C25) | 2000812 | 123.56 |
| C14 | 4.924 | 0.000 | 88966 | 221541 | AK-103 (C25-C36) | 1551244 | 199.92 |
| C16 | 5.563 | 0.000 | 128044 | 213983 | OR.DIES (C10-C28) | 2912728 | 226.79 |
| C18 | 6.142 | 0.000 | 125589 | 223833 | CRUDE (Tol-C40) | 4534490 | 600.38 |
| C20 | 6.724 | 0.000 | 141594 | 234160 | MIN.OIL (C24-C38) | 1694634 | 126.08 |
| C22 | 7.268 | 0.000 | 209040 | 239054 | | | |
| C24 | 7.778 | 0.000 | 282468 | 252084 | | | |
| C25 | 8.027 | 0.000 | 366999 | 331942 | | | |
| C26 | 8.264 | 0.000 | 221619 | 261403 | | | |
| C28 | 8.720 | 0.000 | 273011 | 264368 | | | |
| C32 | 9.665 | 0.000 | 168191 | 234518 | | | |
| C34 | 10.146 | 0.000 | 131490 | 208635 | CREOSOT (C12-C22) | 1299905 | 353.80 |
| Filter Peak | 10.516 | 0.000 | 532 | 362 | | | |
| C36 | 10.627 | 0.000 | 98676 | 159596 | | | |
| C38 | 11.098 | 0.000 | 56055 | 112028 | | | |
| C40 | 11.560 | 0.000 | 19587 | 45321 | | | |
| o-terph | 6.313 | 0.000 | 598321 | 820750 | JET-A (C10-C18) | 1262101 | 85.04 |
| Triacon Surr | 9.193 | 0.000 | 638664 | 804533 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 820750 | 47.8 | 106.1 |
| Triacontane | 804533 | 46.9 | 104.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 09:36

Client ID:

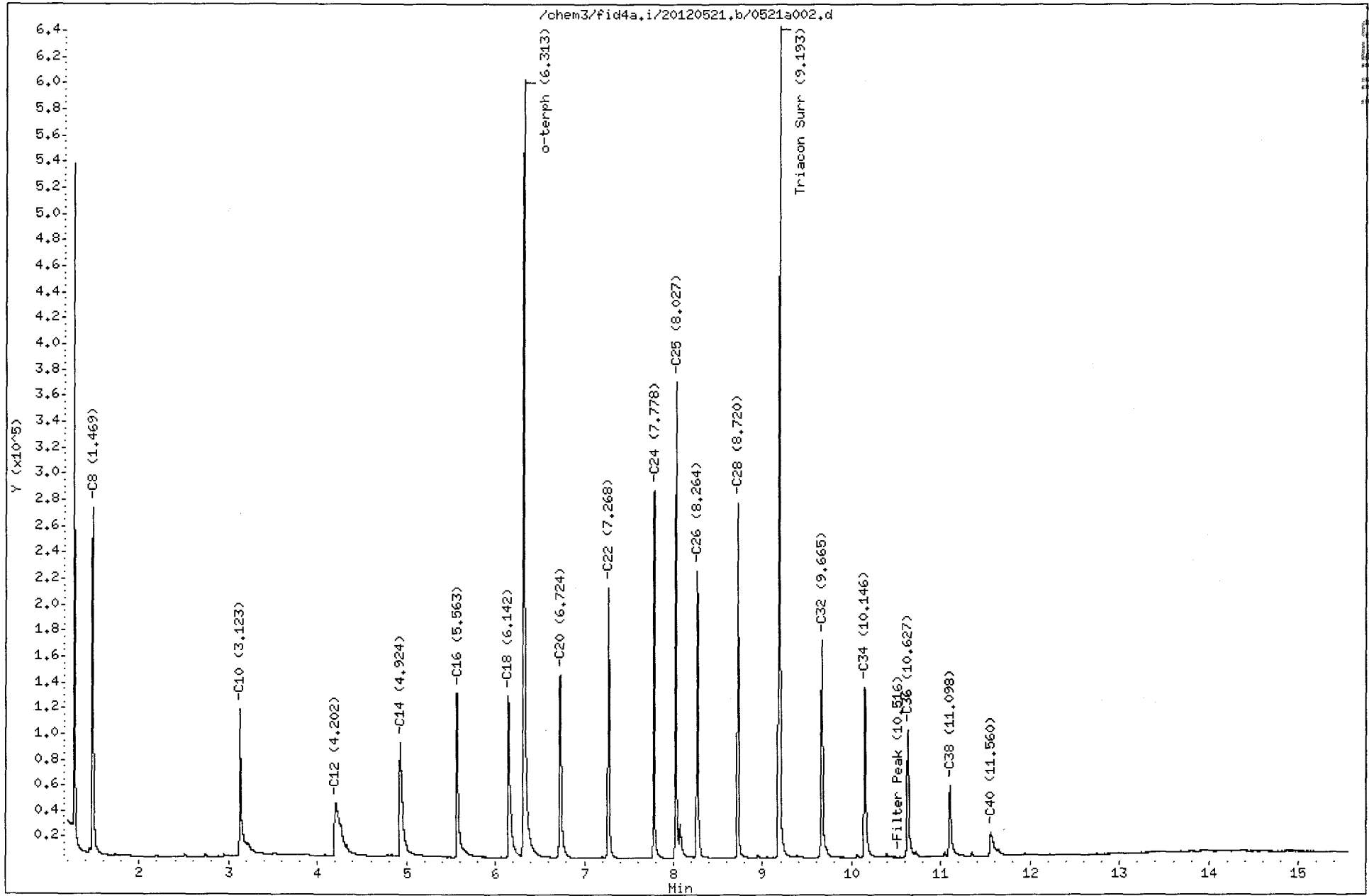
Sample Info: RT

Column phase: RTX-1

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25



0052:01965

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a003.d
Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH

ARI ID: IB
Client ID:
Injection: 21-MAY-2012 10:01

Report Date: 05/22/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|--------|
| Toluene | 1.262 | 0.001 | 64899 | 143076 | GAS (Tol-C12) | 309031 | 20.54 |
| C8 | ---- | | | | DIESEL (C12-C24) | 160175 | 11.75 |
| C10 | 3.130 | 0.006 | 1102 | 3292 | M.OIL (C24-C38) | 306314 | 31.42 |
| C12 | 4.150 | -0.052 | 1495 | 4143 | AK-102 (C10-C25) | 257847 | 15.92 |
| C14 | 4.934 | 0.011 | 1293 | 1560 | AK-103 (C25-C36) | 271802 | 35.03 |
| C16 | 5.564 | 0.001 | 724 | 381 | OR.DIES (C10-C28) | 411260 | 32.02 |
| C18 | 6.133 | -0.009 | 442 | 416 | CRUDE (Tol-C40) | 804322 | 106.49 |
| C20 | 6.735 | 0.010 | 1315 | 1226 | MIN.OIL (C24-C38) | 306314 | 22.79 |
| C22 | 7.254 | -0.014 | 485 | 546 | | | |
| C24 | 7.782 | 0.004 | 57 | 25 | | | |
| C25 | 8.021 | -0.007 | 1079 | 918 | | | |
| C26 | 8.281 | 0.017 | 391 | 814 | | | |
| C28 | 8.704 | -0.017 | 2496 | 2949 | | | |
| C32 | 9.660 | -0.005 | 879 | 1554 | | | |
| C34 | 10.146 | 0.000 | 530 | 271 | CREOSOT (C12-C22) | 158367 | 43.10 |
| Filter Peak | 10.514 | -0.002 | 550 | 448 | | | |
| C36 | 10.640 | 0.013 | 532 | 615 | | | |
| C38 | 11.125 | 0.028 | 748 | 384 | | | |
| C40 | 11.565 | 0.005 | 869 | 548 | | | |
| o-terph | 6.312 | -0.002 | 539358 | 839049 | JET-A (C10-C18) | 201862 | 13.60 |
| Triacon Surr | 9.189 | -0.004 | 591520 | 768387 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 839049 | 48.8 | 108.5 |
| Triacotane | 768387 | 44.8 | 99.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 10:01

Client ID:

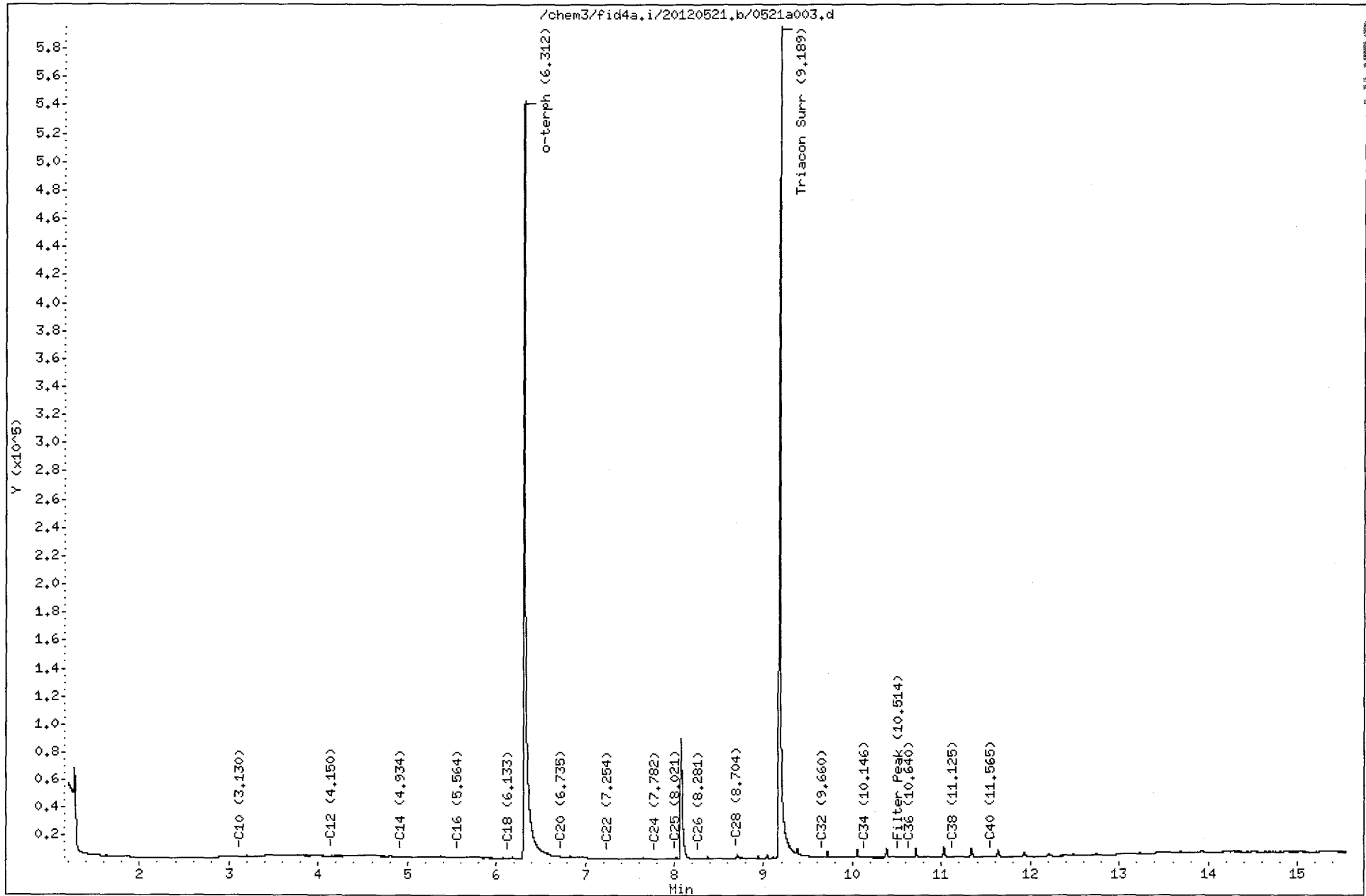
Instrument: fid4a.i

Sample Info: IB

Operator: MH

Column phase: RTX-1

Column diameter: 0,25



0052:01967

MH
5/21/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120521.b/0521a004.d

ARI ID: DIESEL #1

Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m

Client ID:

Instrument: fid4a.i

Injection: 21-MAY-2012 10:25

Operator: MH

Report Date: 05/22/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.308 | 0.046 | 2622 | 3182 | GAS (Tol-C12) | 881109 | 58.57 |
| C8 | 1.468 | -0.001 | 1047 | 1417 | DIESEL (C12-C24) | 3581267 | 262.79 |
| C10 | 3.121 | -0.002 | 4028 | 4388 | M.OIL (C24-C38) | 113068 | 11.60 |
| C12 | 4.209 | 0.007 | 13218 | 16391 | AK-102 (C10-C25) | 4244941 | 262.15 M |
| C14 | 4.940 | 0.016 | 23788 | 31993 | AK-103 (C25-C36) | 79154 | 10.20 |
| C16 | 5.574 | 0.011 | 26264 | 69940 | OR.DIES (C10-C28) | 4300316 | 334.84 M |
| C18 | 6.137 | -0.005 | 67686 | 79926 | CRUDE (Tol-C40) | 4588580 | 607.54 M |
| C20 | 6.728 | 0.003 | 32023 | 84287 | MIN.OIL (C24-C38) | 113068 | 8.41 |
| C22 | 7.249 | -0.019 | 7400 | 9296 | | | |
| C24 | 7.785 | 0.007 | 2781 | 3506 | | | |
| C25 | 8.025 | -0.003 | 2269 | 5292 | | | |
| C26 | 8.276 | 0.011 | 1533 | 1579 | | | |
| C28 | 8.713 | -0.007 | 1624 | 2573 | | | |
| C32 | 9.658 | -0.008 | 58 | 73 | | | |
| C34 | 10.145 | -0.001 | 46 | 43 | CREOSOT (C12-C22) | 3450926 | 939.24 M |
| Filter Peak | 10.524 | 0.008 | 86 | 59 | | | |
| C36 | 10.624 | -0.003 | 86 | 99 | | | |
| C38 | 11.103 | 0.005 | 244 | 299 | | | |
| C40 | 11.552 | -0.008 | 422 | 462 | | | |
| o-terph | 6.315 | 0.002 | 752711 | 835976 | JET-A (C10-C18) | 3138186 | 211.44 |
| Triacon Surr | 9.195 | 0.002 | 103 | 62 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 835976 | 48.6 | 108.1 |
| Triacontane | 62 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 10:25

Client ID:

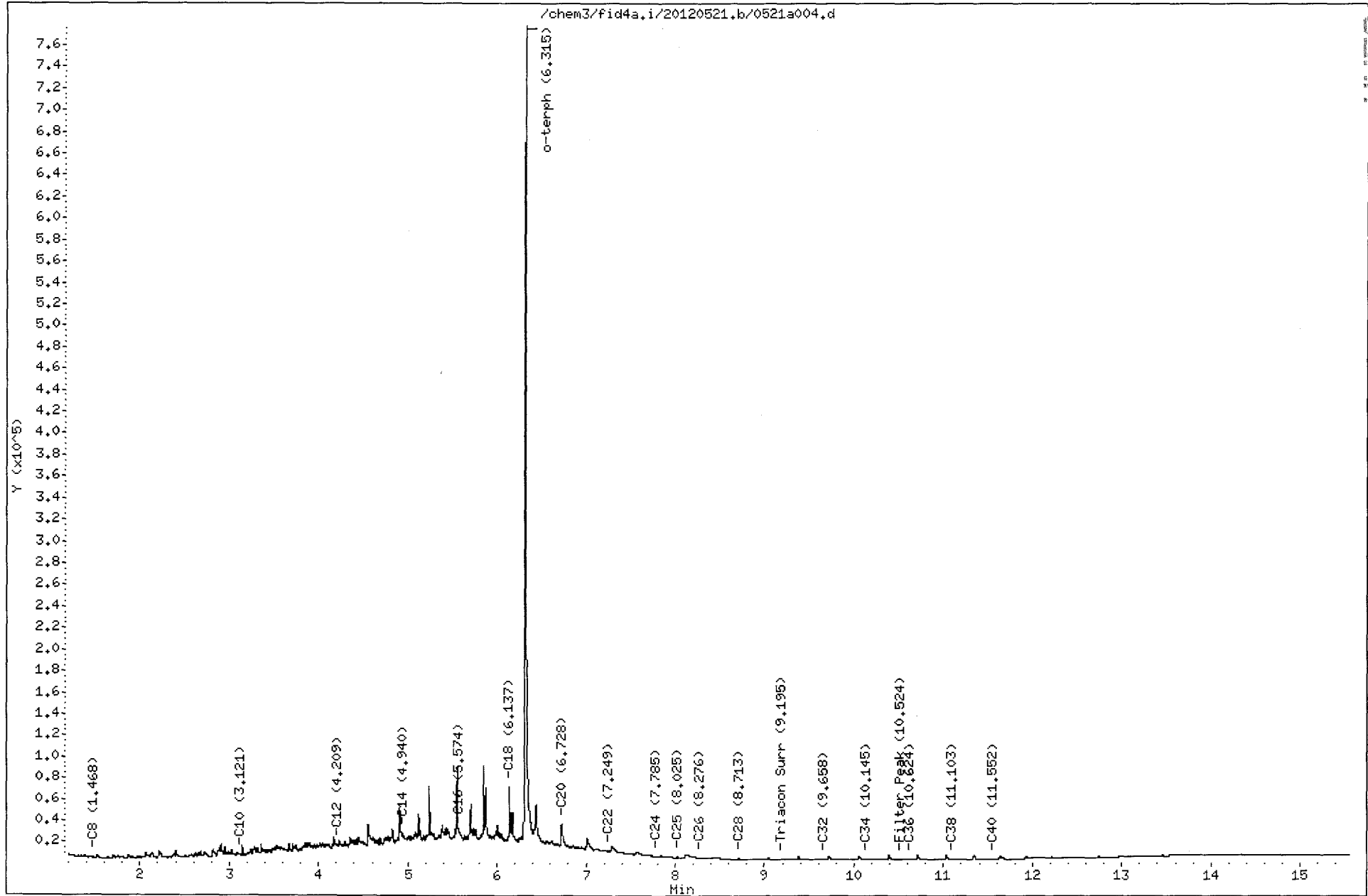
Instrument: fid4a.i

Sample Info: DIESEL #1

Operator: MH

Column phase: RTX-1

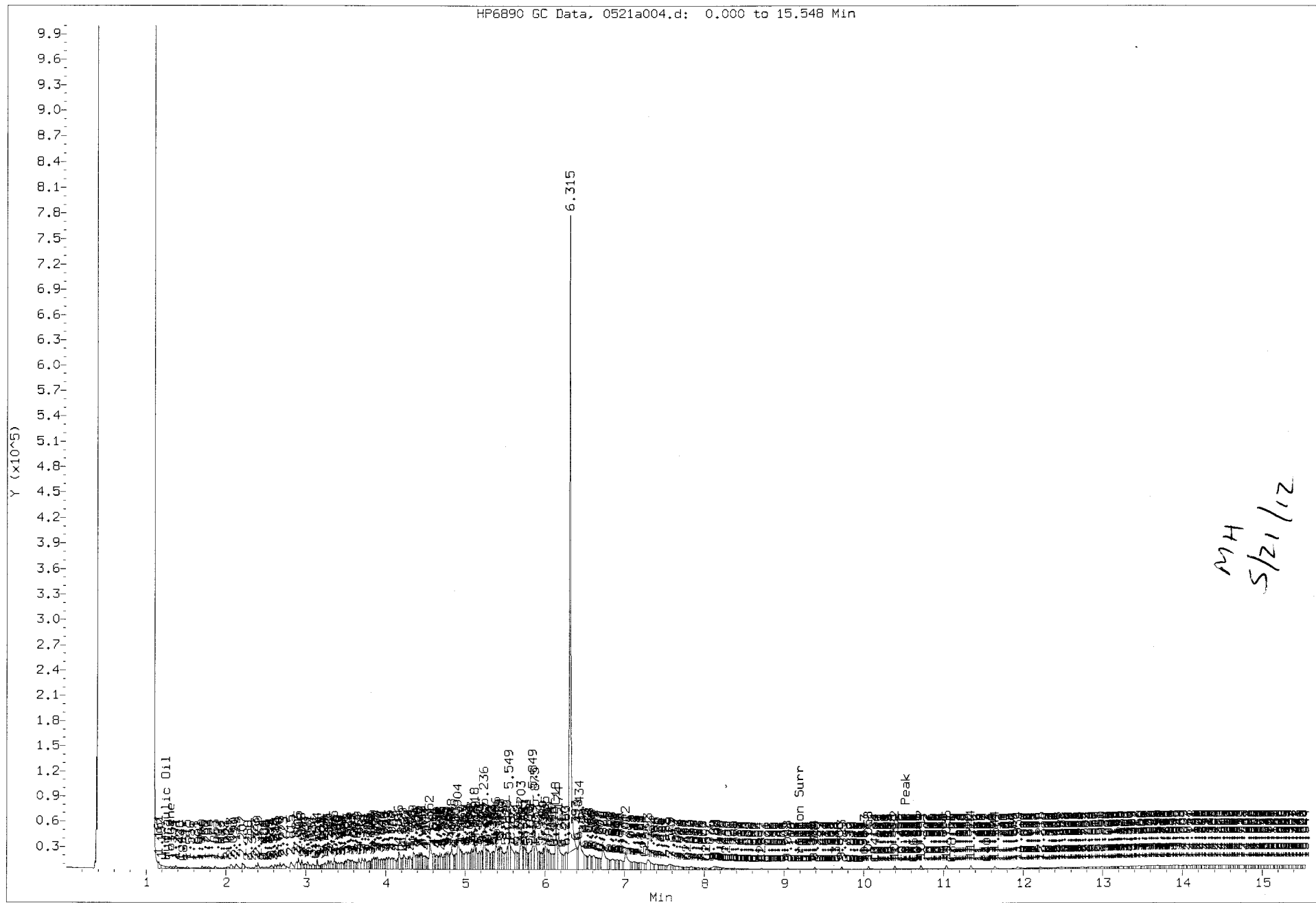
Column diameter: 0.25



0052:01969

Data File: /chem3/fid4a.i/20120521.b/0521a004.d
Injection Date: 21-MAY-2012 10:25
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0521a004.d: 0.000 to 15.548 Min



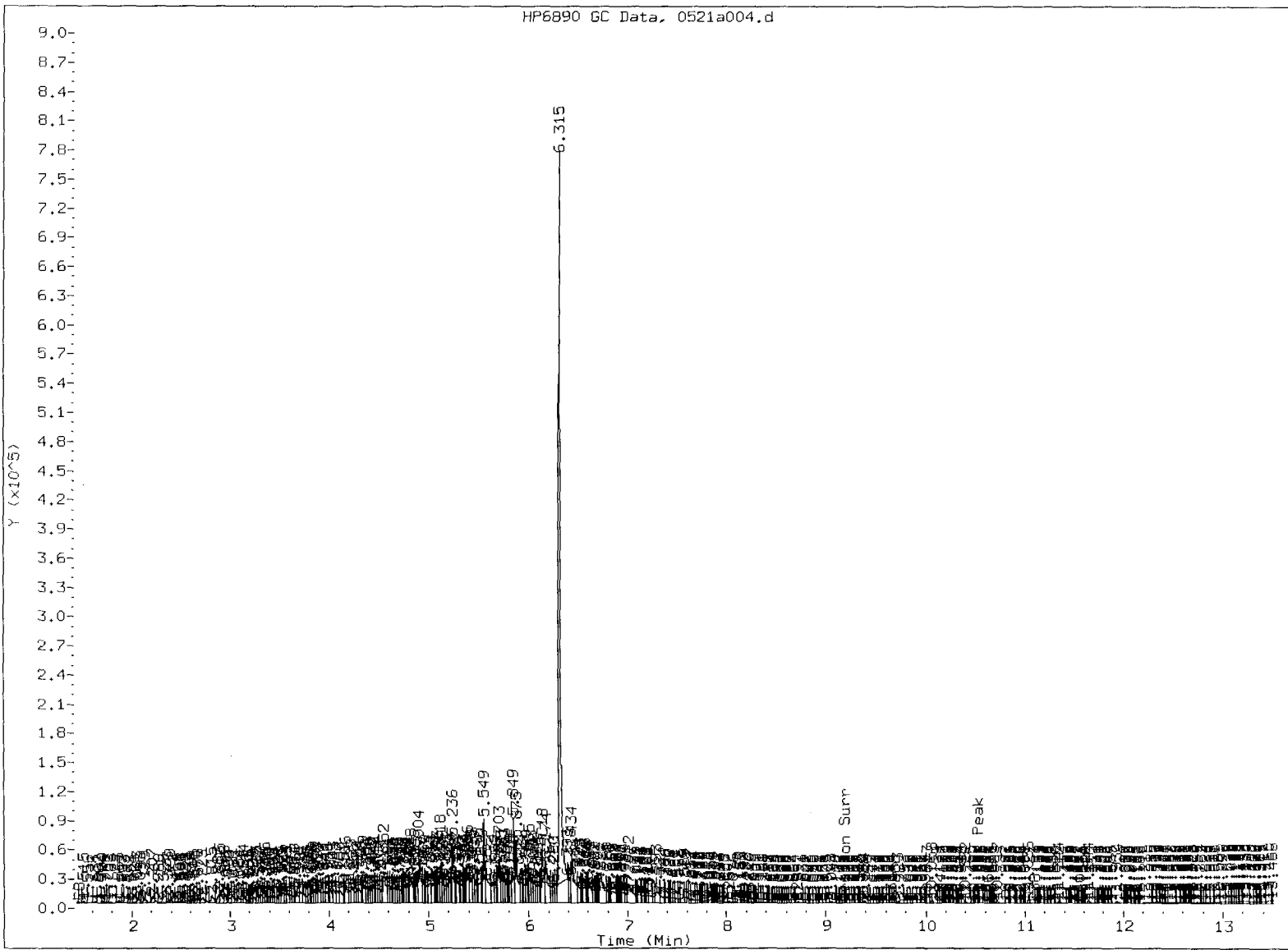
MH
5/21/12

UUS2:01970

FID:4A-2C/RTX-1 DIESEL #1

FID:4A SIGNAL

HP6890 GC Data, 0521a004.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/21/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a005.d ARI ID: MOIL #1
 Method: /chem3/fid4a.i/20120521.b/ftp4a.m Client ID:
 Instrument: fid4a.i Injection: 21-MAY-2012 10:49
 Operator: MH
 Report Date: 05/22/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.265 | 0.004 | 45229 | 93639 | GAS (Tol-C12) | 201539 | 13.40 |
| C8 | 1.498 | 0.029 | 1232 | 3806 | DIESEL (C12-C24) | 577999 | 42.41 |
| C10 | 3.119 | -0.004 | 642 | 291 | M.OIL (C24-C38) | 4834117 | 495.83 |
| C12 | 4.203 | 0.000 | 990 | 2095 | AK-102 (C10-C25) | 829968 | 51.25 |
| C14 | 4.926 | 0.002 | 895 | 1239 | AK-103 (C25-C36) | 4334601 | 558.63 M |
| C16 | 5.558 | -0.005 | 790 | 1656 | OR.DIES (C10-C28) | 2266370 | 176.47 |
| C18 | 6.175 | 0.032 | 446 | 830 | CRUDE (Tol-C40) | 5798539 | 767.74 M |
| C20 | 6.732 | 0.007 | 1010 | 1700 | MIN.OIL (C24-C38) | 4834117 | 359.66 M |
| C22 | 7.265 | -0.003 | 4657 | 3078 | | | |
| C24 | 7.772 | -0.006 | 19384 | 19491 | | | |
| C25 | 8.025 | -0.003 | 26341 | 18418 | | | |
| C26 | 8.259 | -0.005 | 30838 | 17047 | | | |
| C28 | 8.719 | -0.002 | 34826 | 21485 | | | |
| C32 | 9.661 | -0.005 | 29756 | 47213 | | | |
| C34 | 10.146 | 0.000 | 23425 | 18936 | CREOSOT (C12-C22) | 190195 | 51.77 |
| Filter Peak | 10.519 | 0.003 | 16258 | 5078 | | | |
| C36 | 10.622 | -0.005 | 14942 | 8422 | | | |
| C38 | 11.107 | 0.009 | 9131 | 4130 | | | |
| C40 | 11.564 | 0.004 | 5612 | 2805 | | | |
| o-terph | 6.320 | 0.006 | 392 | 158 | JET-A (C10-C18) | 140845 | 9.49 |
| Triacon Surr | 9.196 | 0.003 | 593724 | 764223 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 158 | 0.0 | 0.0 |
| Triacotane | 764223 | 44.6 | 99.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 10:49

Client ID:

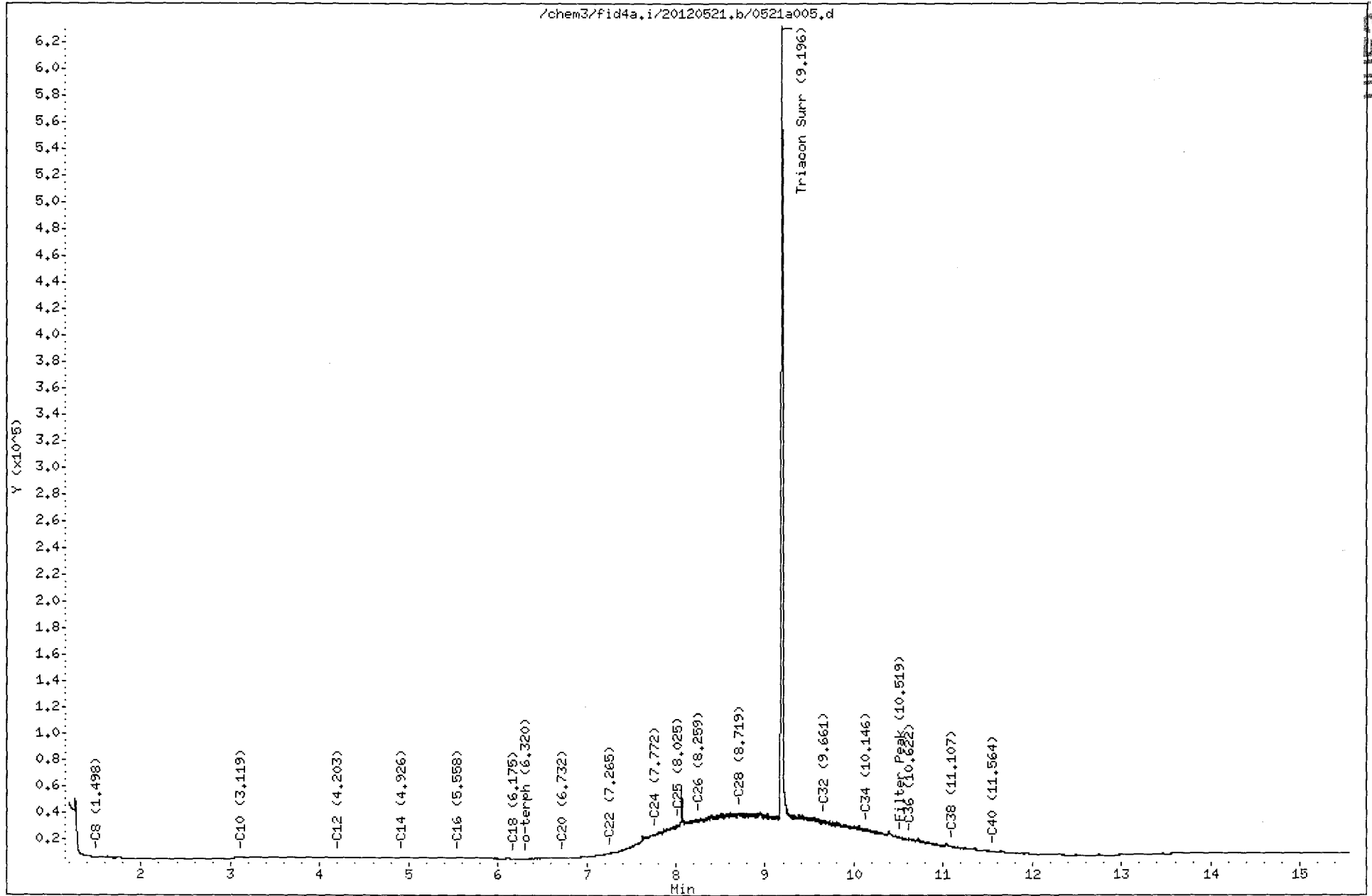
Instrument: fid4a.i

Sample Info: MOIL #1

Operator: MH

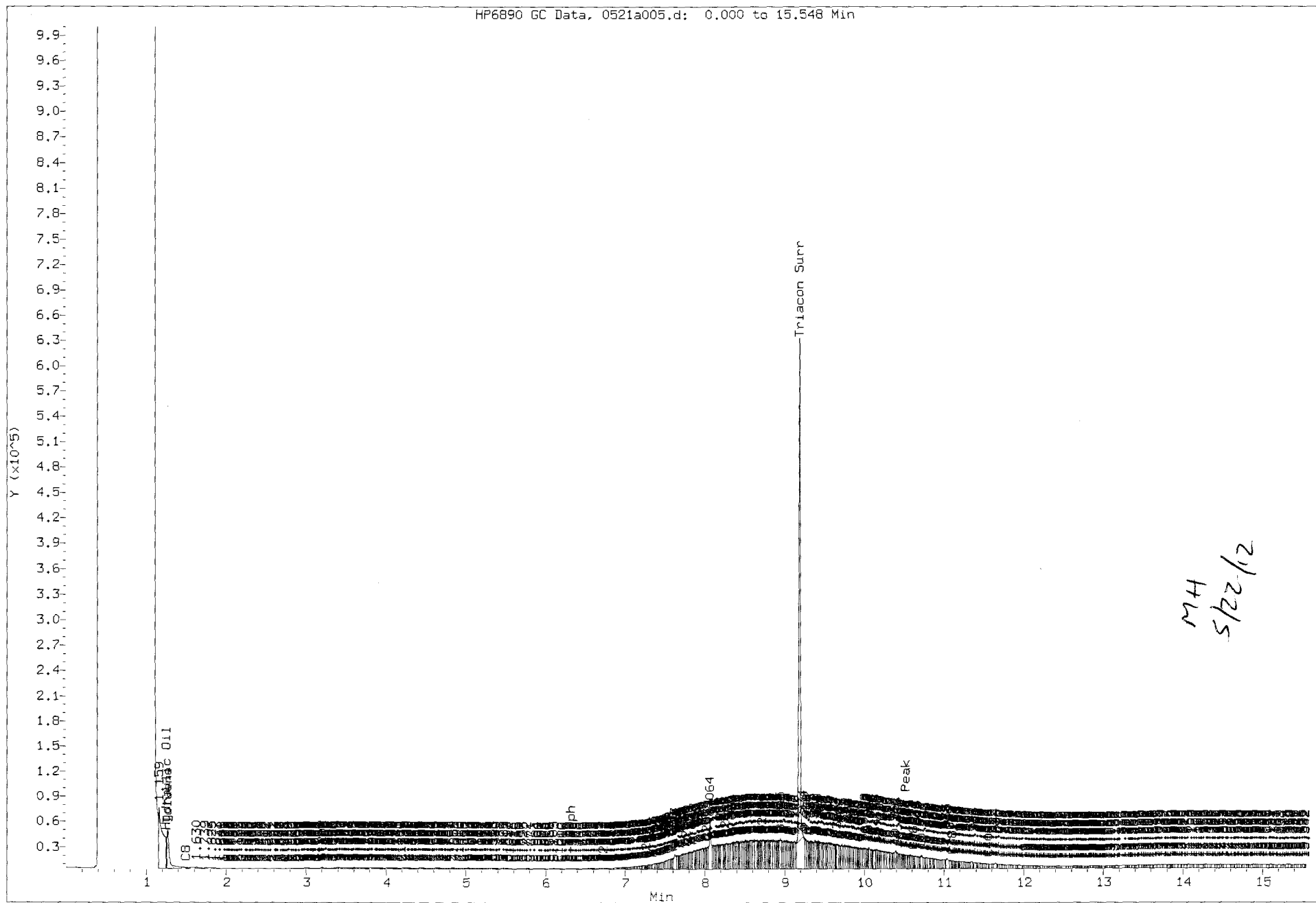
Column phase: RTX-1

Column diameter: 0.25

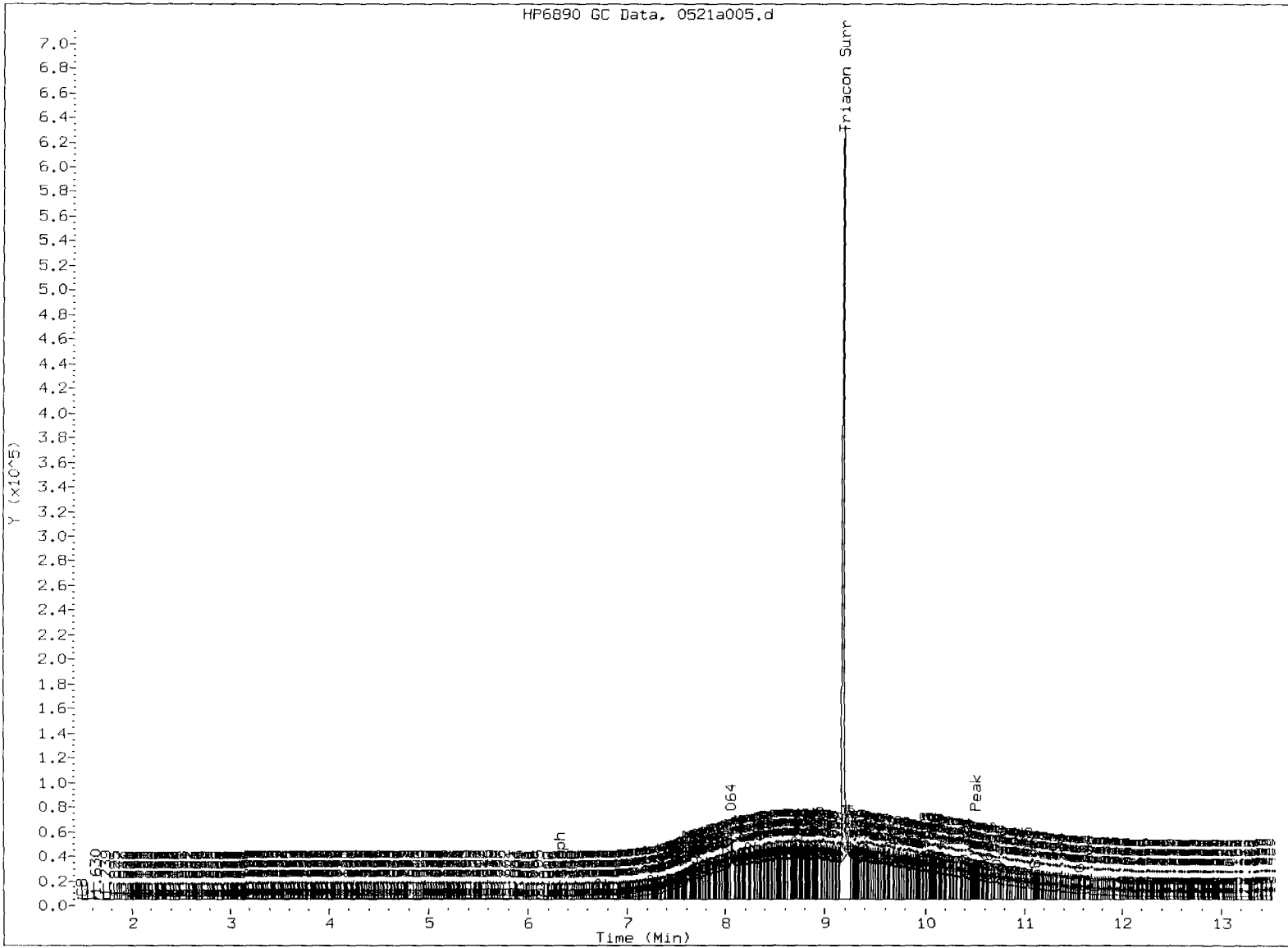


Data File: /chem3/fid4a.i/20120521.b/0521a005.d
Injection Date: 21-MAY-2012 10:49
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0521a005.d: 0.000 to 15.548 Min



UJ52:01974



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a006.d
Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/22/2012
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: UU62MBW1
Client ID: UU62MBW1
Injection: 21-MAY-2012 11:44
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.269 | 0.008 | 6000 | 14024 | GAS (Tol-C12) | 48037 | 3.19 |
| C8 | 1.384 | -0.085 | 992 | 4934 | DIESEL (C12-C24) | 129572 | 9.51 |
| C10 | 3.128 | 0.005 | 192 | 146 | M.OIL (C24-C38) | 175246 | 17.97 |
| C12 | 4.225 | 0.023 | 262 | 317 | AK-102 (C10-C25) | 146434 | 9.04 |
| C14 | 4.927 | 0.004 | 192 | 201 | AK-103 (C25-C36) | 148613 | 19.15 |
| C16 | 5.549 | -0.014 | 279 | 252 | OR.DIES (C10-C28) | 163318 | 12.72 |
| C18 | 6.136 | -0.006 | 177 | 377 | CRUDE (Tol-C40) | 377270 | 49.95 |
| C20 | 6.736 | 0.011 | 1515 | 2458 | MIN.OIL (C24-C38) | 175246 | 13.04 |
| C22 | 7.255 | -0.013 | 582 | 1069 | | | |
| C24 | 7.779 | 0.001 | 178 | 91 | | | |
| C25 | 8.027 | 0.000 | 873 | 1288 | | | |
| C26 | 8.261 | -0.004 | 237 | 231 | | | |
| C28 | 8.711 | -0.009 | 1970 | 1990 | | | |
| C32 | 9.667 | 0.001 | 1021 | 1747 | | | |
| C34 | 10.149 | 0.003 | 652 | 626 | CREOSOT (C12-C22) | 124465 | 33.88 |
| Filter Peak | 10.523 | 0.007 | 598 | 341 | | | |
| C36 | 10.623 | -0.004 | 593 | 461 | | | |
| C38 | 11.112 | 0.014 | 709 | 195 | | | |
| C40 | 11.564 | 0.004 | 805 | 589 | | | |
| o-terph | 6.314 | 0.001 | 514226 | 782889 | JET-A (C10-C18) | 40880 | 2.75 |
| Triacon Surr | 9.200 | 0.006 | 565876 | 781669 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 782889 | 45.6 | 101.2 |
| Triacontane | 781669 | 45.6 | 101.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Data File: /chem3/fid4a.i/20120521.b/0521a006.d

Page 1

Date : 21-MAY-2012 11:44

Client ID: UU62MBW1

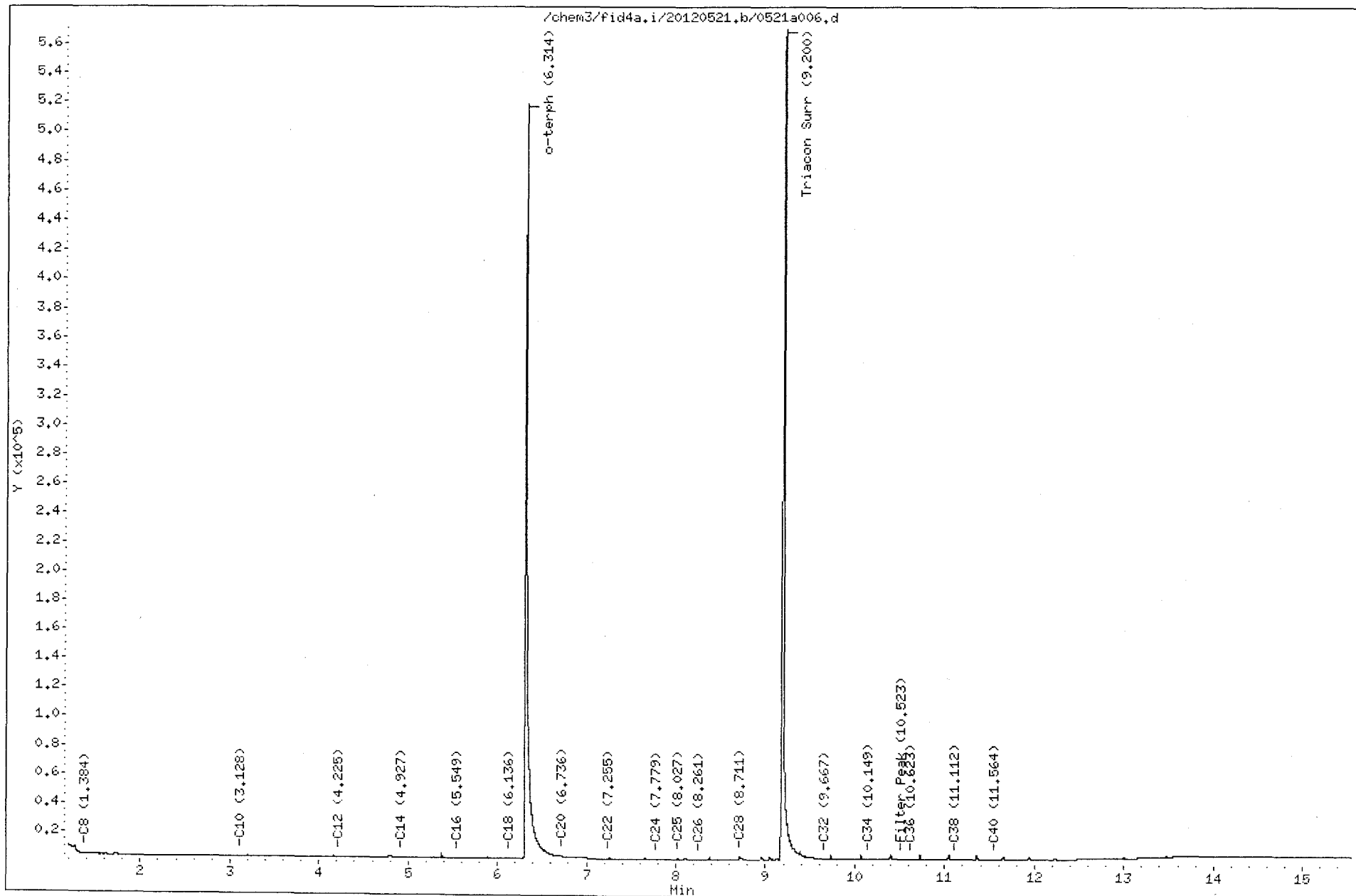
Instrument: fid4a.i

Sample Info: UU62MBW1

Operator: MH

Column phase: RTX-1

Column diameter: 0.25



UU62:01977

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a007.d

ARI ID: UU62LCSW1

Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m

Client ID: UU62LCSW1

Instrument: fid4a.i

Injection: 21-MAY-2012 12:08

Operator: MH

Report Date: 05/22/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|--------|-------------------|------------|-----------|
| Toluene | 1.262 | 0.001 | 6174 | 8778 | GAS (Tol-C12) | 4034928 | 268.21 |
| C8 | 1.455 | -0.014 | 2333 | 2486 | DIESEL (C12-C24) | 18066162 | 1325.66 |
| C10 | 3.122 | -0.002 | 80277 | 66033 | M.OIL (C24-C38) | 260241 | 26.69 |
| C12 | 4.196 | -0.007 | 107101 | 82519 | AK-102 (C10-C25) | 21058735 | 1300.48 M |
| C14 | 4.924 | 0.000 | 113884 | 140884 | AK-103 (C25-C36) | 188151 | 24.25 |
| C16 | 5.545 | -0.018 | 572077 | 617410 | OR.DIES (C10-C28) | 21175807 | 1648.82 M |
| C18 | 6.142 | -0.001 | 488061 | 480460 | CRUDE (Tol-C40) | 22367875 | 2961.55 M |
| C20 | 6.715 | -0.010 | 316224 | 368719 | MIN.OIL (C24-C38) | 260241 | 19.36 |
| C22 | 7.263 | -0.005 | 129179 | 196362 | | | |
| C24 | 7.793 | 0.014 | 26080 | 68064 | | | |
| C25 | 8.015 | -0.012 | 5703 | 3387 | | | |
| C26 | 8.277 | 0.012 | 5868 | 12669 | | | |
| C28 | 8.721 | 0.000 | 1609 | 1677 | | | |
| C32 | 9.657 | -0.009 | 500 | 625 | | | |
| C34 | 10.137 | -0.009 | 108 | 128 | CREOSOT (C12-C22) | 17462539 | 4752.81 M |
| Filter Peak | 10.499 | -0.017 | 53 | 62 | | | |
| C36 | 10.629 | 0.001 | 32 | 17 | | | |
| C38 | 11.115 | 0.017 | 98 | 83 | | | |
| C40 | 11.553 | -0.008 | 233 | 148 | | | |
| o-terph | 6.320 | 0.006 | 1032808 | 829112 | JET-A (C10-C18) | 15522839 | 1045.87 |
| Triacon Surr | 9.190 | -0.004 | 583747 | 813135 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 829112 | 48.2 | 107.2 |
| Triacontane | 813135 | 47.4 | 105.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

UU52:01978

Date : 21-MAY-2012 12:08

Client ID: UU62LCSW1

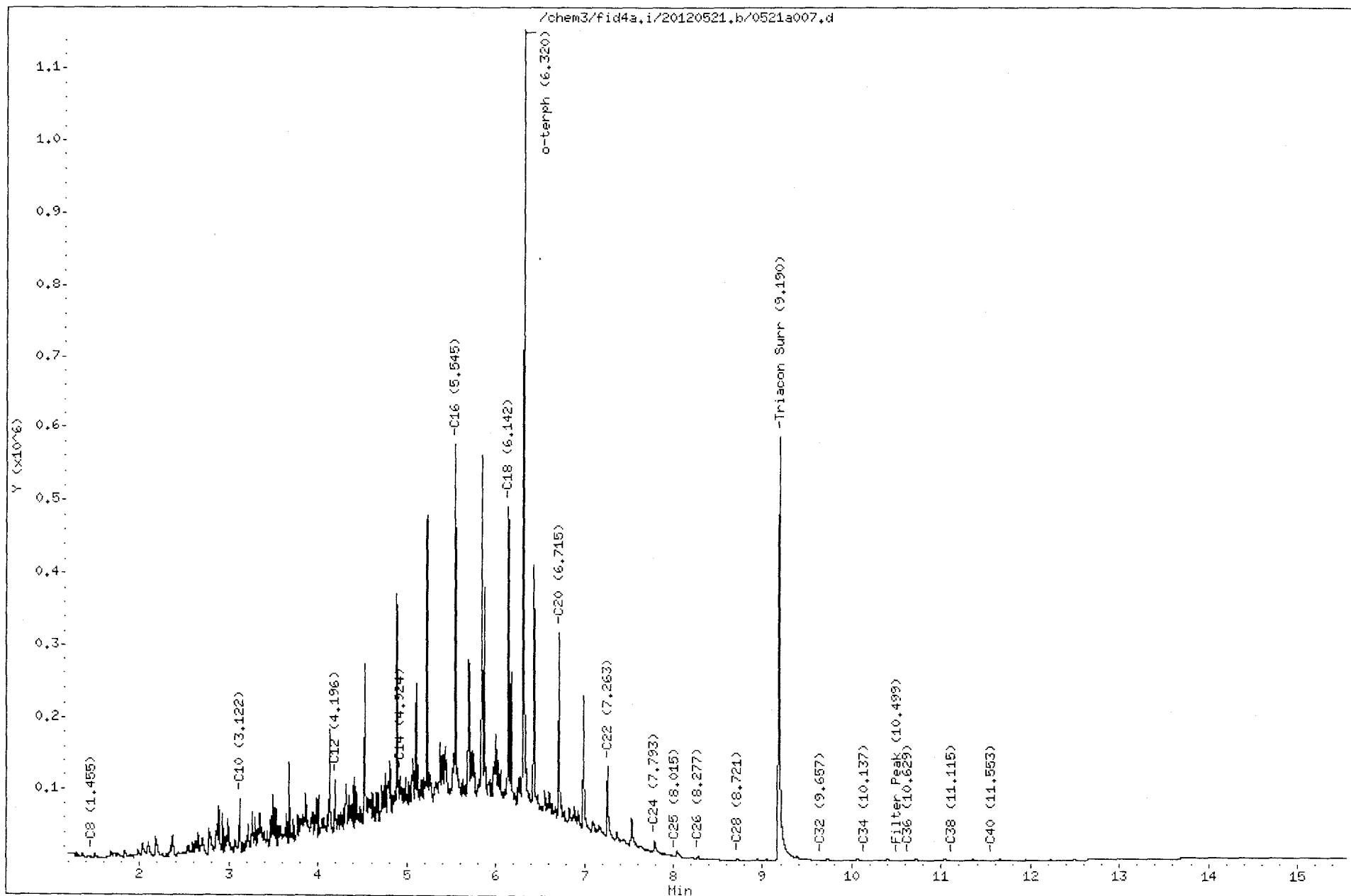
Sample Info: UU62LCSW1

Instrument: fid4a.i

Operator: MH

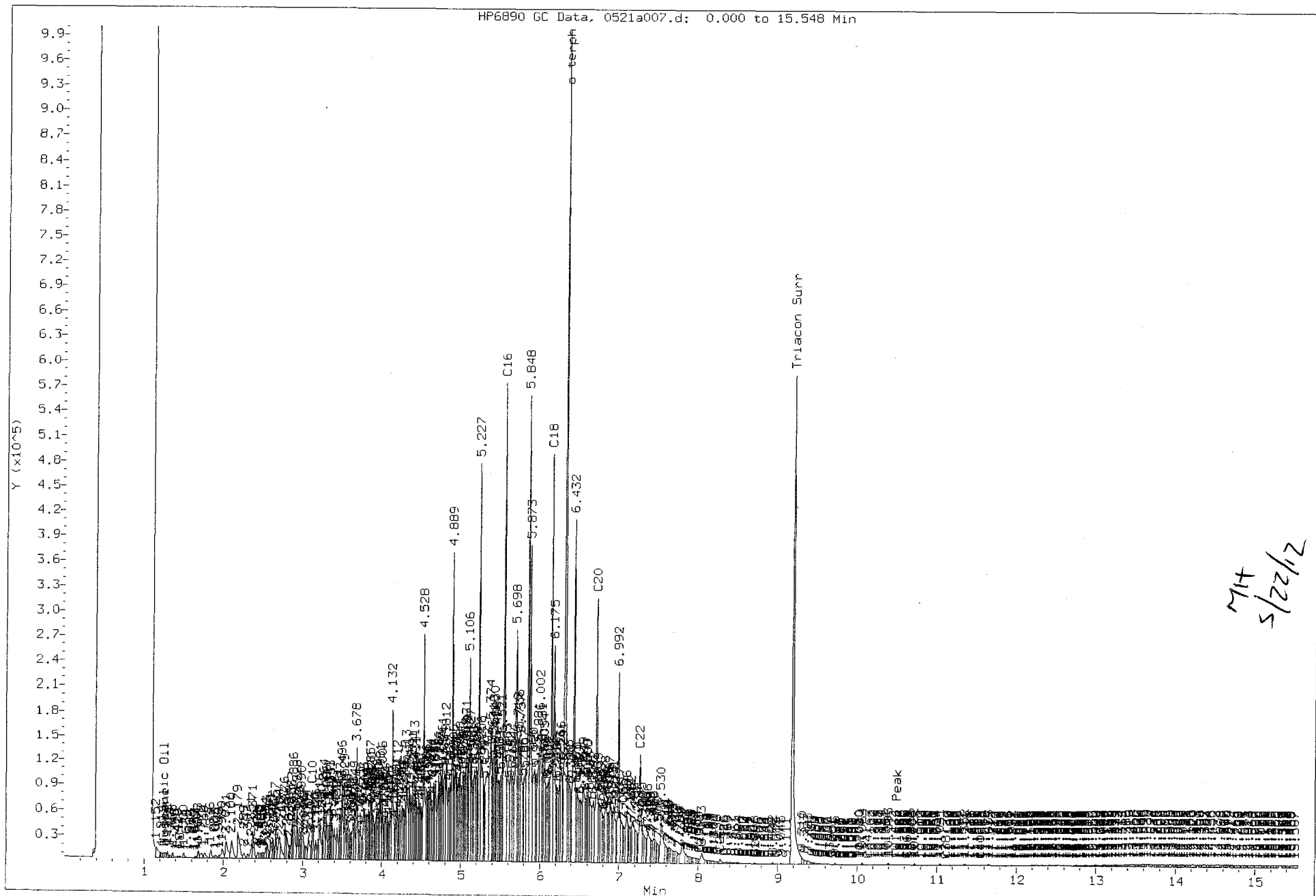
Column diameter: 0.25

Column phase: RTX-1



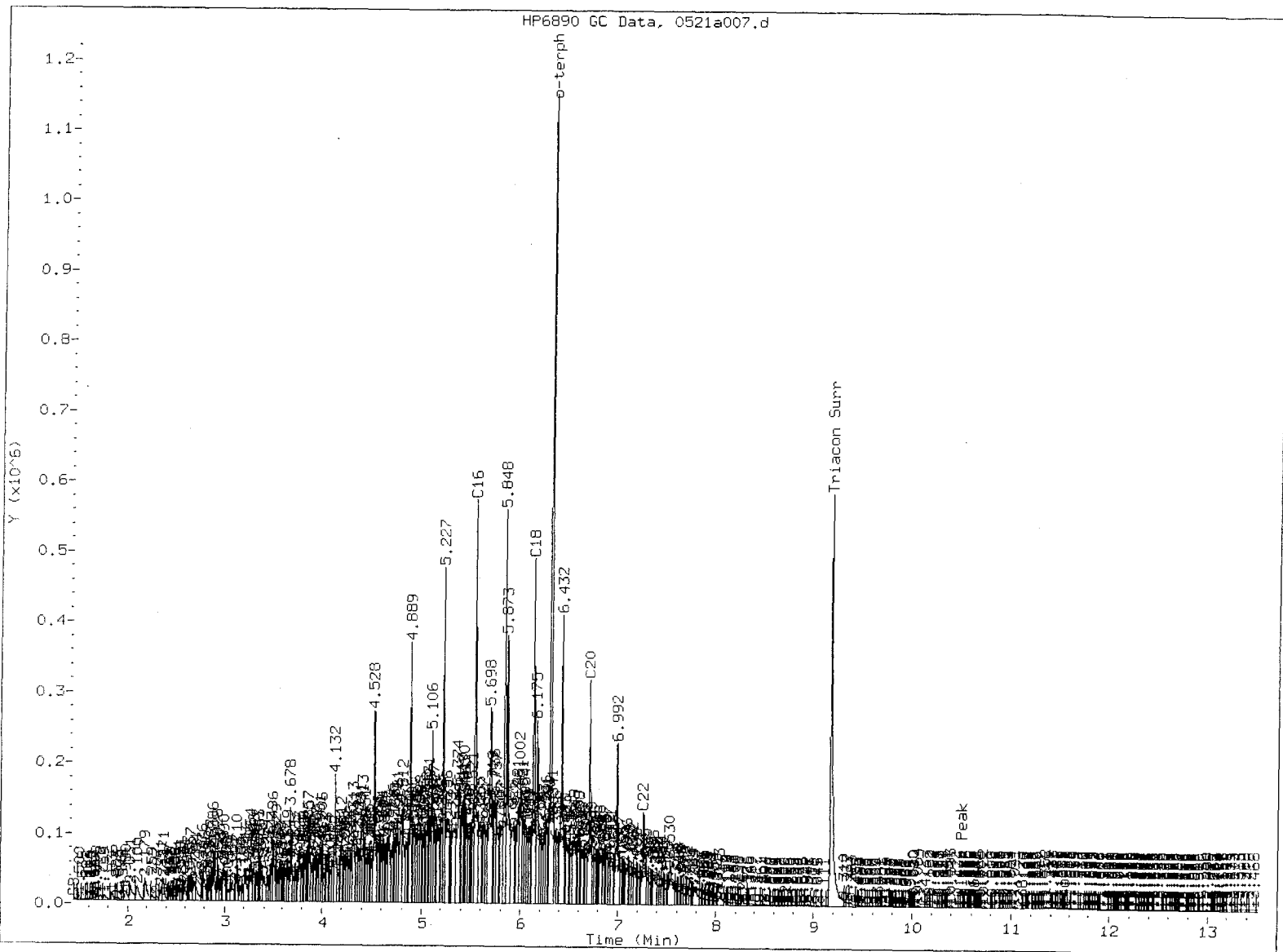
UU62:01979

Data File: /chem3/fid4a.i/20120521.b/0521a007.d
Injection Date: 21-MAY-2012 12:08
Instrument: fid4a.1
Client Sample ID: UU62LCSW1



MH
5/22/12

UUS2:01980



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a008.d
Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m
Instrument: fid4a.i
Operator: MH
Report Date: 05/22/2012
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

ARI ID: UU62LCSDW1
Client ID: UU62LCSDW1
Injection: 21-MAY-2012 12:33
Dilution Factor: 1

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|---------|--------|-------------------|------------|-----------|
| Toluene | 1.262 | 0.000 | 7027 | 10017 | GAS (Tol-C12) | 4196722 | 278.97 |
| C8 | 1.454 | -0.015 | 2233 | 2733 | DIESEL (C12-C24) | 18279787 | 1341.34 |
| C10 | 3.122 | -0.001 | 81300 | 68151 | M.OIL (C24-C38) | 270596 | 27.75 |
| C12 | 4.195 | -0.007 | 108654 | 84512 | AK-102 (C10-C25) | 21414601 | 1322.46 M |
| C14 | 4.925 | 0.001 | 116735 | 153350 | AK-103 (C25-C36) | 194281 | 25.04 |
| C16 | 5.567 | 0.004 | 129621 | 112988 | OR.DIES (C10-C28) | 21531580 | 1676.52 M |
| C18 | 6.141 | -0.002 | 494473 | 496882 | CRUDE (Tol-C40) | 22751819 | 3012.39 M |
| C20 | 6.714 | -0.011 | 337460 | 454133 | MIN.OIL (C24-C38) | 270596 | 20.13 |
| C22 | 7.262 | -0.006 | 126133 | 233161 | | | |
| C24 | 7.773 | -0.006 | 12265 | 8868 | | | |
| C25 | 8.019 | -0.009 | 5844 | 1917 | | | |
| C26 | 8.252 | -0.013 | 2643 | 811 | | | |
| C28 | 8.719 | -0.001 | 1689 | 1632 | | | |
| C32 | 9.663 | -0.003 | 484 | 121 | | | |
| C34 | 10.148 | 0.002 | 94 | 94 | CREOSOT (C12-C22) | 17673206 | 4810.14 M |
| Filter Peak | 10.523 | 0.006 | 52 | 17 | | | |
| C36 | 10.615 | -0.012 | 47 | 37 | | | |
| C38 | 11.107 | 0.009 | 83 | 73 | | | |
| C40 | 11.562 | 0.001 | 196 | 55 | | | |
| o-terph | 6.319 | 0.005 | 1029607 | 836669 | JET-A (C10-C18) | 15880696 | 1069.98 |
| Triacon Surr | 9.190 | -0.004 | 587212 | 810923 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 836669 | 48.7 | 108.2 |
| Triacontane | 810923 | 47.3 | 105.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

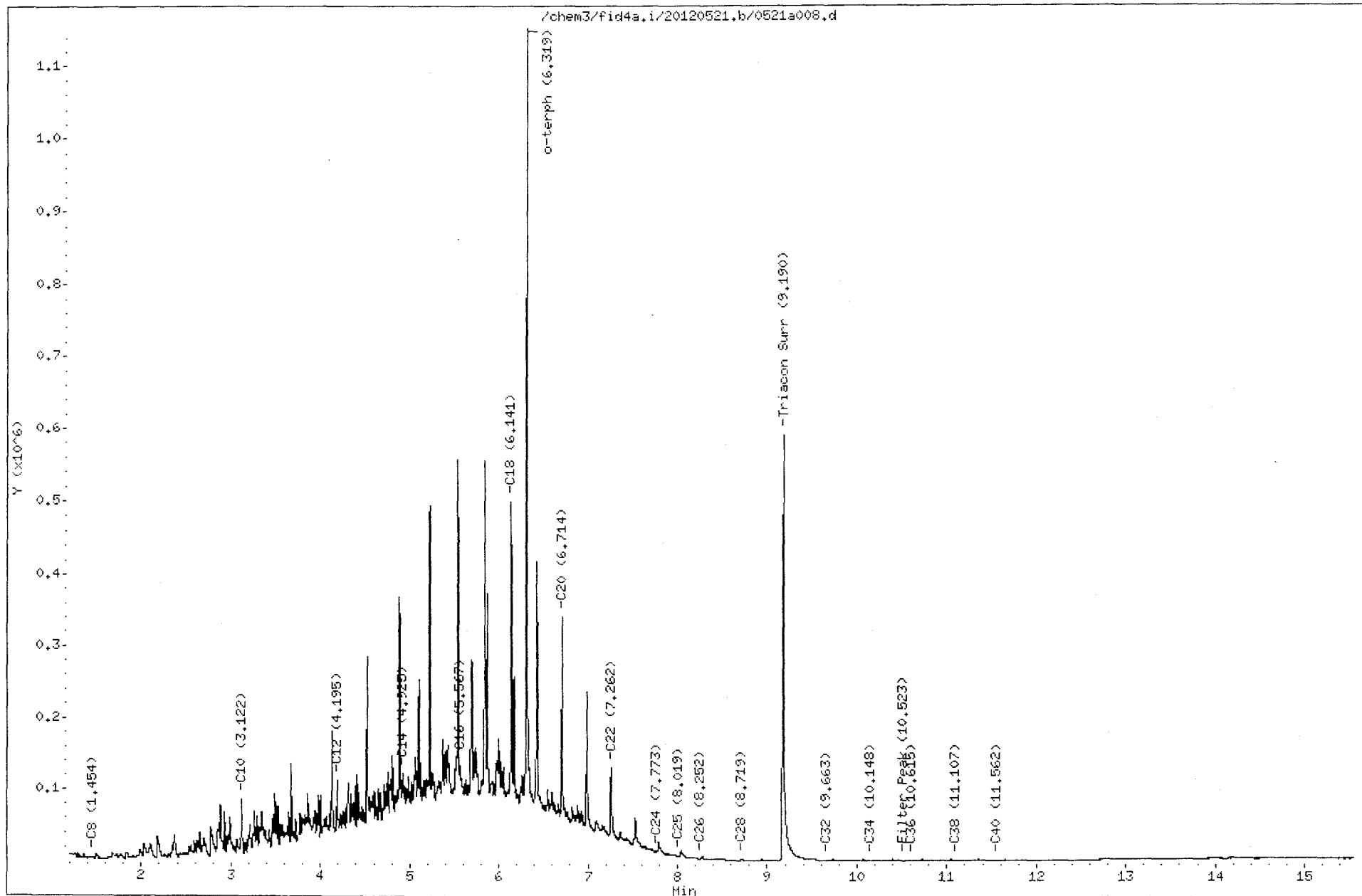
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Date : 21-MAY-2012 12:33
Client ID: UU62LCSDW1
Sample Info: UU62LCSDW1

Instrument: fid4a.i

Operator: MH

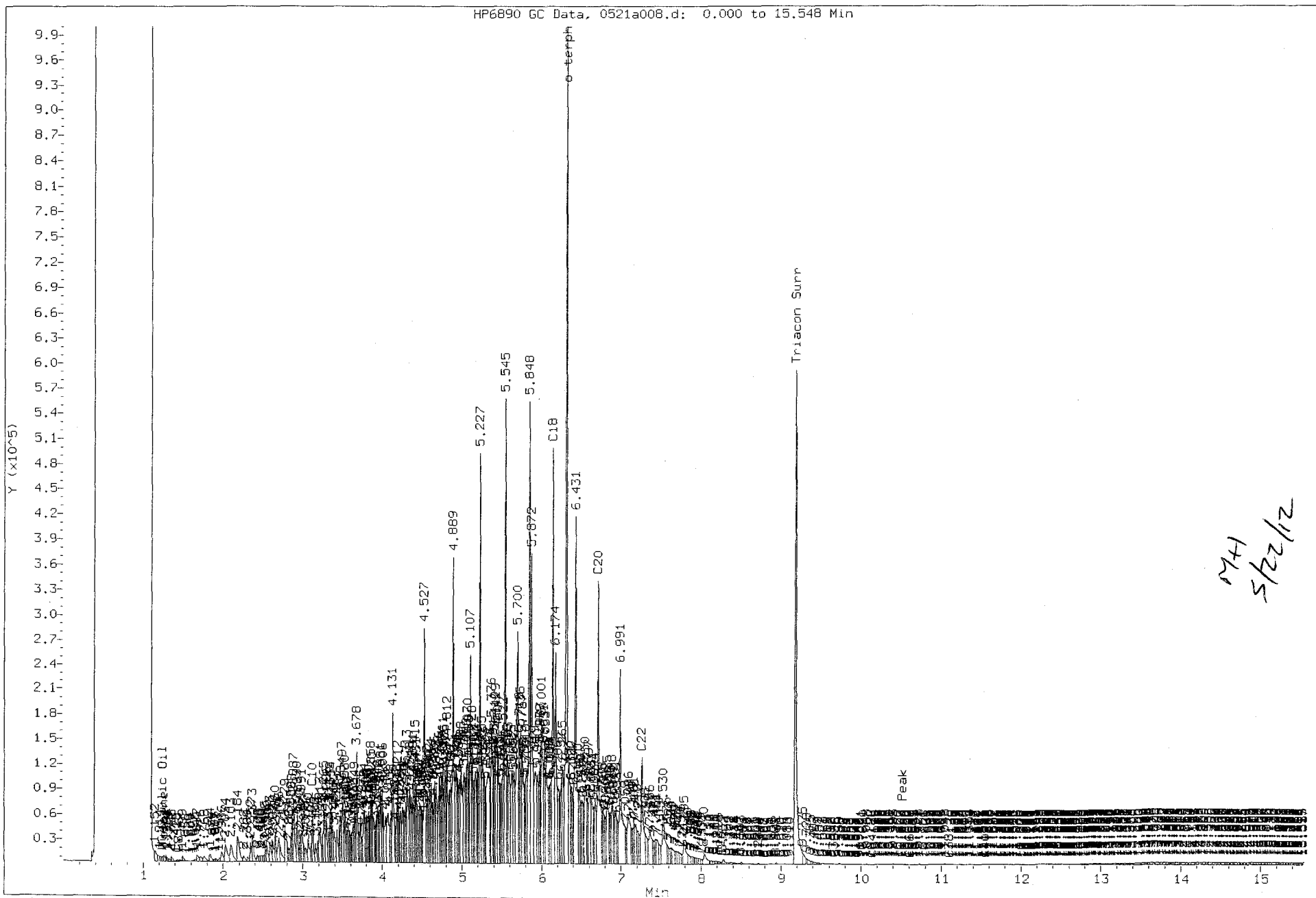
Column diameter: 0,25

Column phase: RTX-1



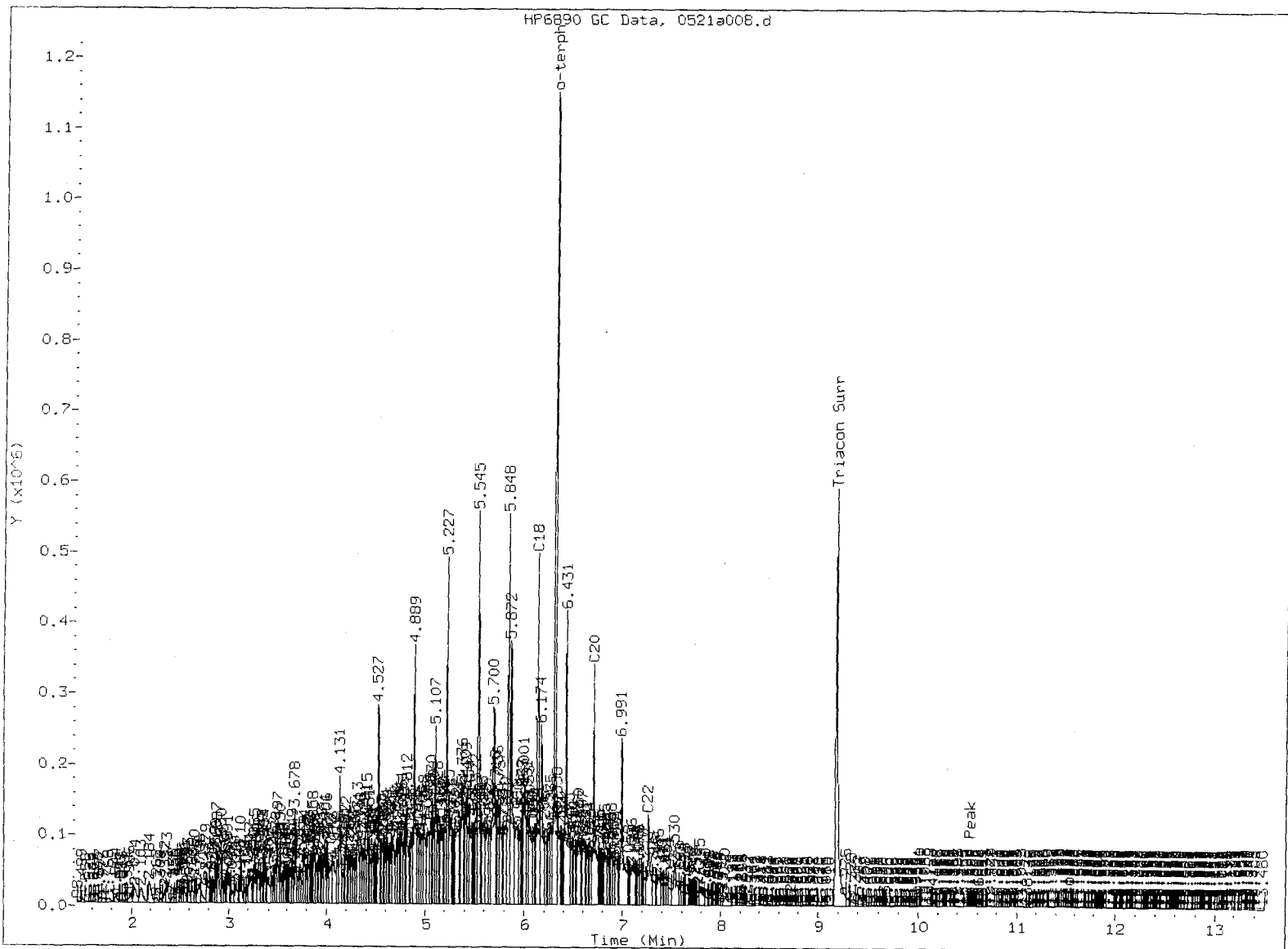
UU52:01983

Data File: /chem3/fid4a.1/20120521.b/0521a008.d
Injection Date: 21-MAY-2012 12:33
Instrument: fid4a.1
Client Sample ID: UU62LCS0W1



UU52:01984

M41
5/22/12



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a010.d

ARI ID: UU62J

Method: /chem3/fid4a.i/20120521.b/ftp4a.m

Client ID: MS-SSRB-120515

Instrument: fid4a.i

Injection: 21-MAY-2012 13:22

Operator: MH

Report Date: 05/22/2012

Dilution Factor: 1

Macro: 15-MAY-2012

Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.267 | 0.006 | 6137 | 7220 | GAS (Tol-C12) | 62450 | 4.15 |
| C8 | 1.485 | 0.016 | 694 | 1111 | DIESEL (C12-C24) | 105853 | 7.77 |
| C10 | 3.126 | 0.003 | 260 | 120 | M.OIL (C24-C38) | 163967 | 16.82 |
| C12 | 4.202 | 0.000 | 492 | 576 | AK-102 (C10-C25) | 129838 | 8.02 |
| C14 | 4.908 | -0.015 | 334 | 644 | AK-103 (C25-C36) | 147269 | 18.98 |
| C16 | 5.576 | 0.013 | 296 | 119 | OR.DIES (C10-C28) | 144743 | 11.27 |
| C18 | 6.134 | -0.008 | 205 | 293 | CRUDE (Tol-C40) | 346813 | 45.92 |
| C20 | 6.731 | 0.007 | 1363 | 1360 | MIN.OIL (C24-C38) | 163967 | 12.20 |
| C22 | 7.269 | 0.001 | 265 | 357 | | | |
| C24 | 7.773 | -0.005 | 207 | 189 | | | |
| C25 | 8.030 | 0.002 | 447 | 702 | | | |
| C26 | 8.257 | -0.007 | 267 | 268 | | | |
| C28 | 8.709 | -0.011 | 893 | 1457 | | | |
| C32 | 9.674 | 0.009 | 942 | 433 | | | |
| C34 | 10.145 | -0.001 | 515 | 292 | CREOSOT (C12-C22) | 100733 | 27.42 |
| Filter Peak | 10.510 | -0.006 | 461 | 697 | | | |
| C36 | 10.590 | -0.037 | 1674 | 6354 | | | |
| C38 | 11.097 | -0.001 | 538 | 680 | | | |
| C40 | 11.565 | 0.005 | 617 | 326 | | | |
| o-terph | 6.312 | -0.001 | 488359 | 809242 | JET-A (C10-C18) | 53547 | 3.61 |
| Triacon Surr | 9.186 | -0.008 | 518116 | 747010 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 809242 | 47.1 | 104.6 |
| Triacontane | 747010 | 43.6 | 96.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 13:22

Client ID: MS-SSRB-120515

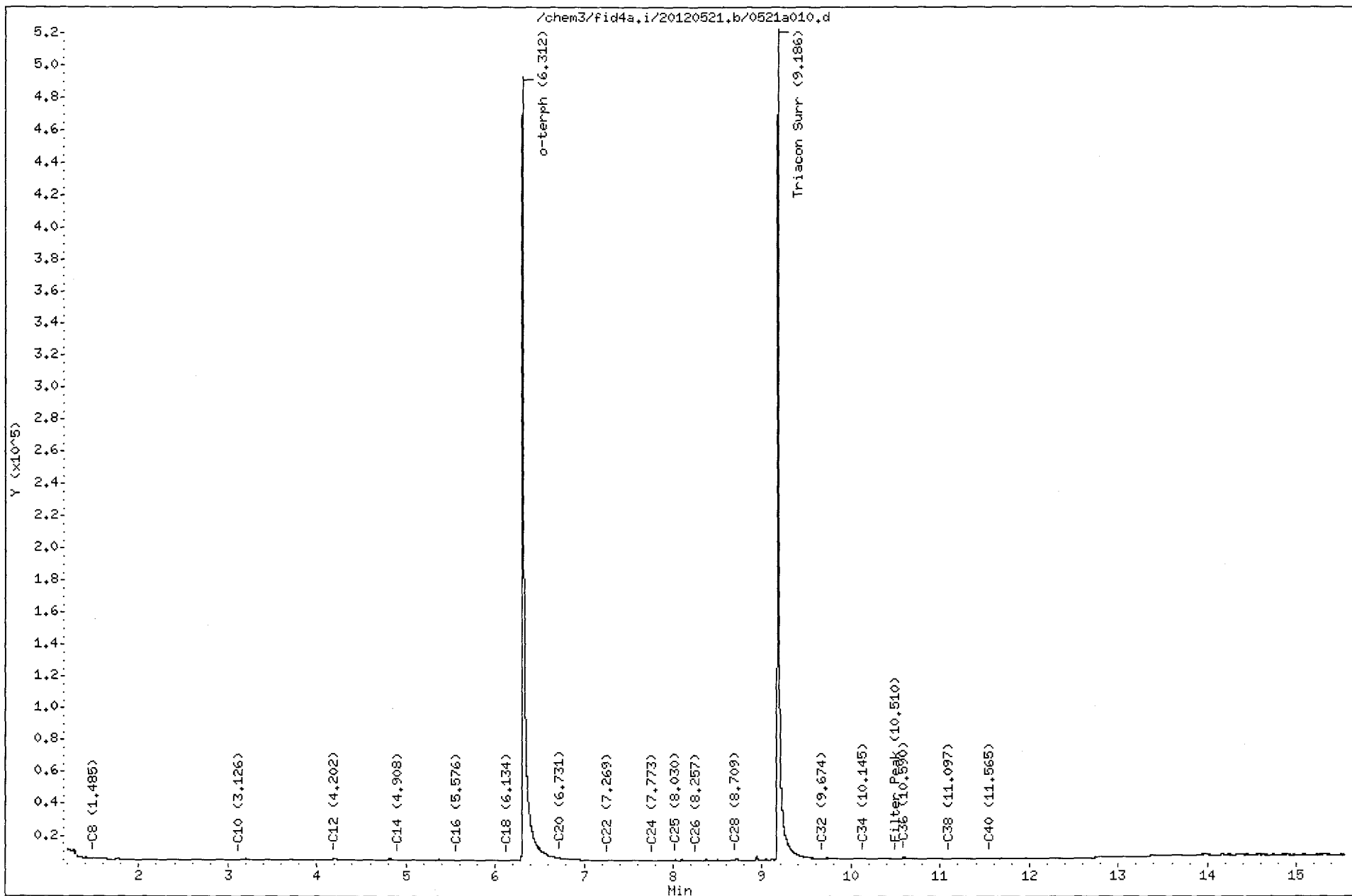
Sample Info: UU62J

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



UU52-01987

MH
5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120521.b/0521a011.d ARI ID: UU62K
Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m Client ID: MS-SSFB-120515
Instrument: fid4a.i Injection: 21-MAY-2012 13:46
Operator: MH
Report Date: 05/22/2012 Dilution Factor: 1
Macro: 15-MAY-2012
Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.269 | 0.008 | 7244 | 8410 | GAS (Tol-C12) | 66914 | 4.45 |
| C8 | 1.455 | -0.014 | 1137 | 3395 | DIESEL (C12-C24) | 85250 | 6.26 |
| C10 | 3.117 | -0.006 | 230 | 328 | M.OIL (C24-C38) | 83951 | 8.61 |
| C12 | 4.209 | 0.007 | 349 | 1009 | AK-102 (C10-C25) | 101274 | 6.25 |
| C14 | 4.925 | 0.001 | 192 | 195 | AK-103 (C25-C36) | 72932 | 9.40 |
| C16 | 5.566 | 0.003 | 213 | 290 | OR.DIES (C10-C28) | 107027 | 8.33 |
| C18 | 6.153 | 0.011 | 109 | 78 | CRUDE (Tol-C40) | 246897 | 32.69 |
| C20 | 6.725 | 0.001 | 1418 | 1629 | MIN.OIL (C24-C38) | 83951 | 6.25 |
| C22 | 7.272 | 0.004 | 126 | 160 | | | |
| C24 | 7.787 | 0.009 | 87 | 49 | | | |
| C25 | 8.029 | 0.002 | 247 | 271 | | | |
| C26 | 8.262 | -0.002 | 62 | 14 | | | |
| C28 | 8.721 | 0.000 | 549 | 446 | | | |
| C32 | 9.674 | 0.009 | 850 | 933 | | | |
| C34 | 10.142 | -0.004 | 384 | 330 | CREOSOT (C12-C22) | 83900 | 22.84 |
| Filter Peak | 10.507 | -0.009 | 322 | 343 | | | |
| C36 | 10.638 | 0.011 | 443 | 470 | | | |
| C38 | 11.113 | 0.015 | 373 | 388 | | | |
| C40 | 11.564 | 0.003 | 441 | 758 | | | |
| o-terph | 6.313 | -0.001 | 485576 | 770594 | JET-A (C10-C18) | 34836 | 2.35 |
| Triacon Surr | 9.186 | -0.007 | 562186 | 768542 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 770594 | 44.8 | 99.6 |
| Triacontane | 768542 | 44.8 | 99.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 13:46

Client ID: MS-SSFB-120515

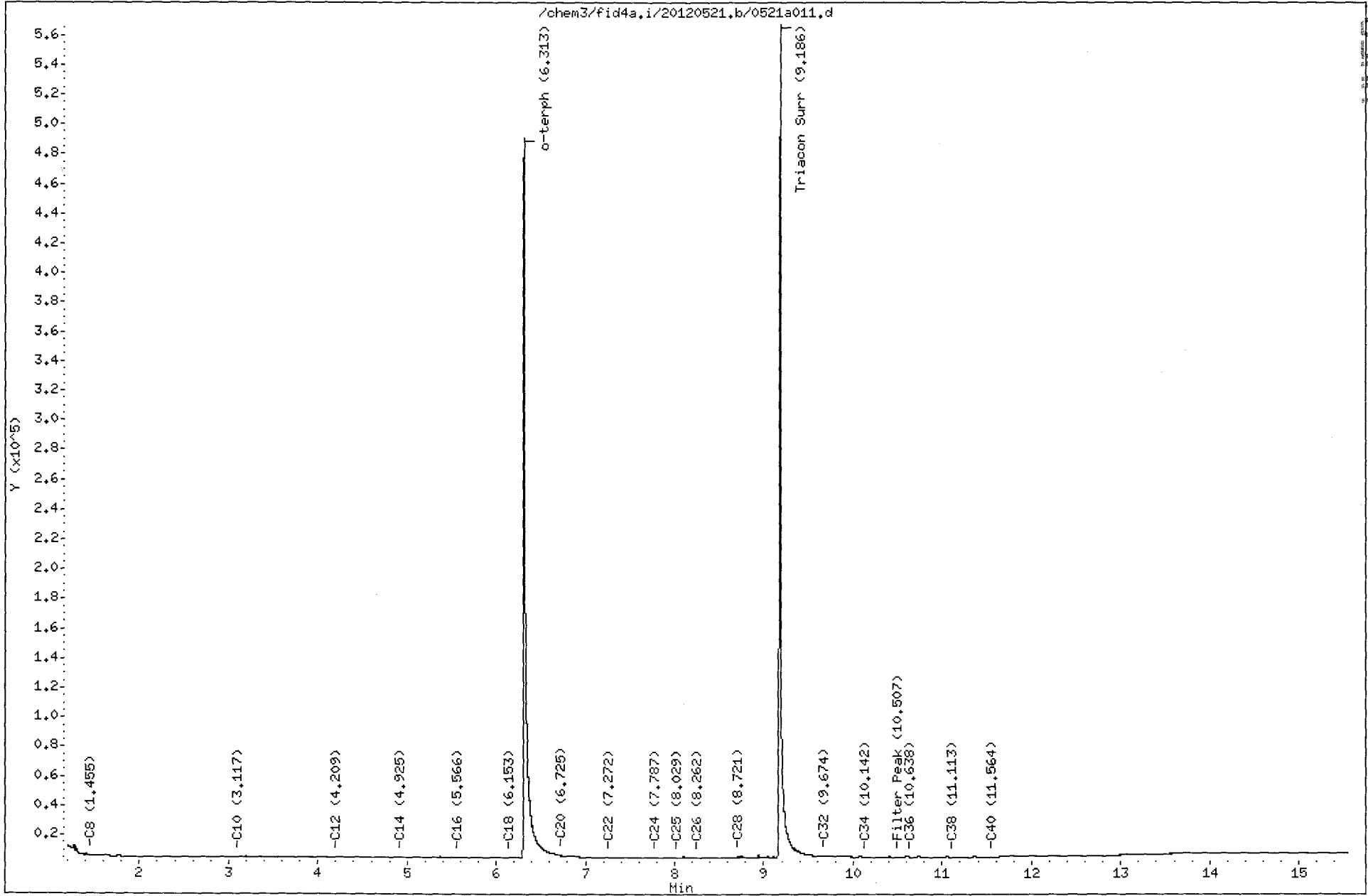
Sample Info: UU62K

Instrument: fid4a.i

Operator: MH

Column diameter: 0.25

Column phase: RTX-1



0052-01989

MH
5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid4a.i/20120521.b/0521a017.d ARI ID: DIESEL #2
 Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 21-MAY-2012 16:13
 Operator: MH
 Report Date: 05/22/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.301 | 0.040 | 3169 | 3900 | GAS (Tol-C12) | 941430 | 62.58 |
| C8 | 1.463 | -0.005 | 1384 | 2045 | DIESEL (C12-C24) | 3640149 | 267.11 |
| C10 | 3.124 | 0.001 | 4225 | 4320 | M.OIL (C24-C38) | 99415 | 10.20 |
| C12 | 4.214 | 0.012 | 13779 | 19684 | AK-102 (C10-C25) | 4335684 | 267.75 M |
| C14 | 4.938 | 0.015 | 24925 | 30802 | AK-103 (C25-C36) | 76046 | 9.80 |
| C16 | 5.576 | 0.013 | 26850 | 50114 | OR.DIES (C10-C28) | 4394428 | 342.17 M |
| C18 | 6.137 | -0.005 | 65248 | 79825 | OR.MOIL (C28-C40) | 24658 | 3.26 |
| C20 | 6.729 | 0.004 | 29663 | 70727 | JET-A (C10-C18) | 3234893 | 217.96 |
| C22 | 7.256 | -0.012 | 7597 | 8048 | MIN.OIL (C24-C38) | 99415 | 7.40 |
| C24 | 7.765 | -0.014 | 3431 | 5515 | | | |
| C25 | 8.032 | 0.005 | 2214 | 5536 | | | |
| C26 | 8.275 | 0.011 | 2019 | 4377 | | | |
| C28 | 8.724 | 0.004 | 1023 | 2823 | | | |
| C32 | 9.663 | -0.003 | 110 | 171 | | | |
| C34 | 10.136 | -0.010 | 32 | 30 | | | |
| Filter Peak | 10.505 | -0.011 | 36 | 41 | CREOSOT (C12-C22) | 3507106 | 954.53 M |
| C36 | 10.635 | 0.008 | 36 | 24 | | | |
| C38 | 11.094 | -0.004 | 89 | 84 | | | |
| C40 | 11.565 | 0.005 | 156 | 55 | | | |
| o-terph | 6.313 | 0.000 | 733601 | 821721 | CRUDE (Tol-C40) | 4684648 | 620.26 M |
| Triacon Surr | 9.190 | -0.003 | 225 | 111 | | | |

M Indicates manual integration within range.
 Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 821721 | 47.8 | 106.2 |
| Triacontane | 111 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| OR Moil | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 16:13

Client ID:

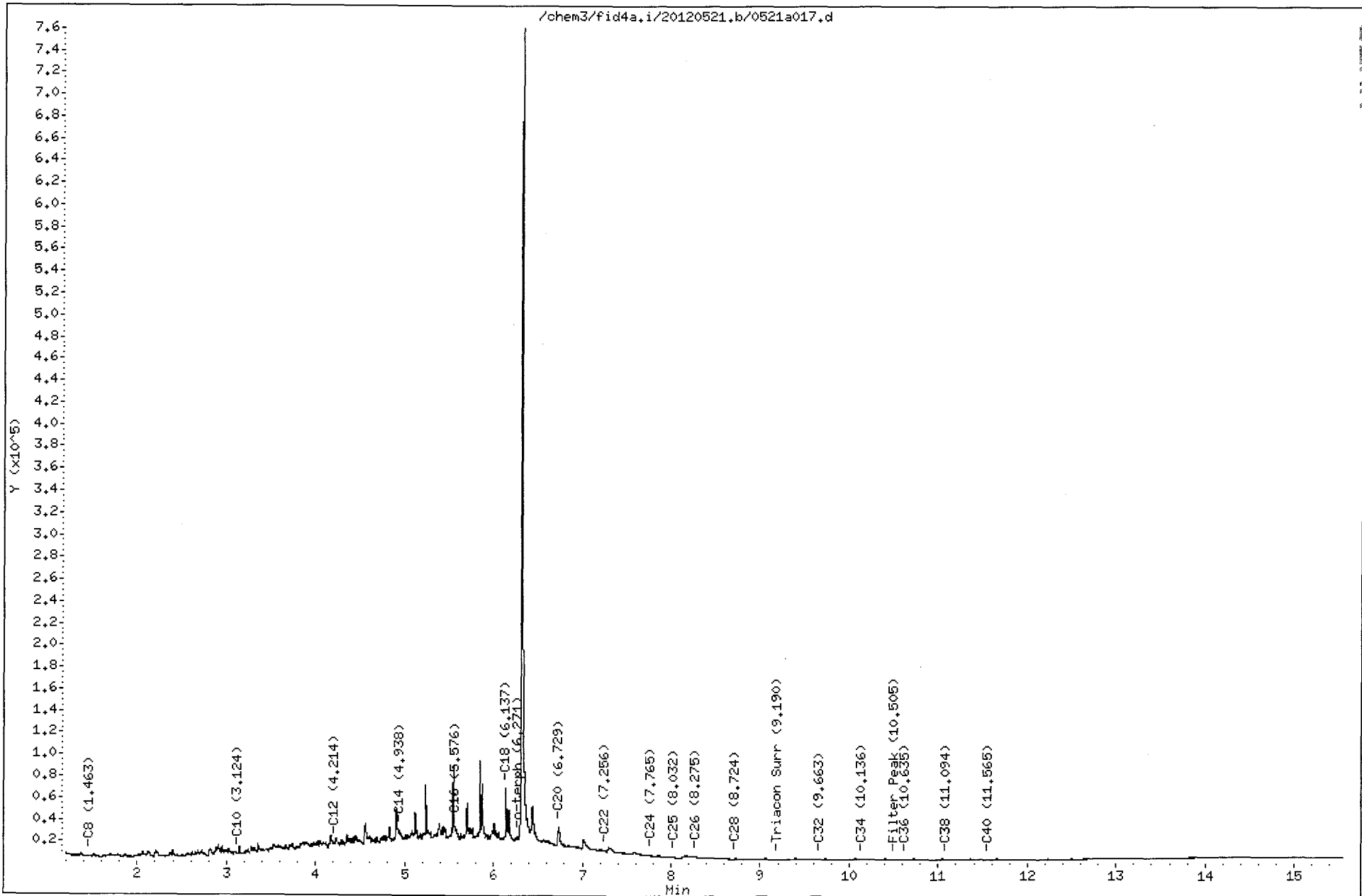
Instrument: fid4a.i

Sample Info: DIESEL #2

Operator: MH

Column phase: RTX-1

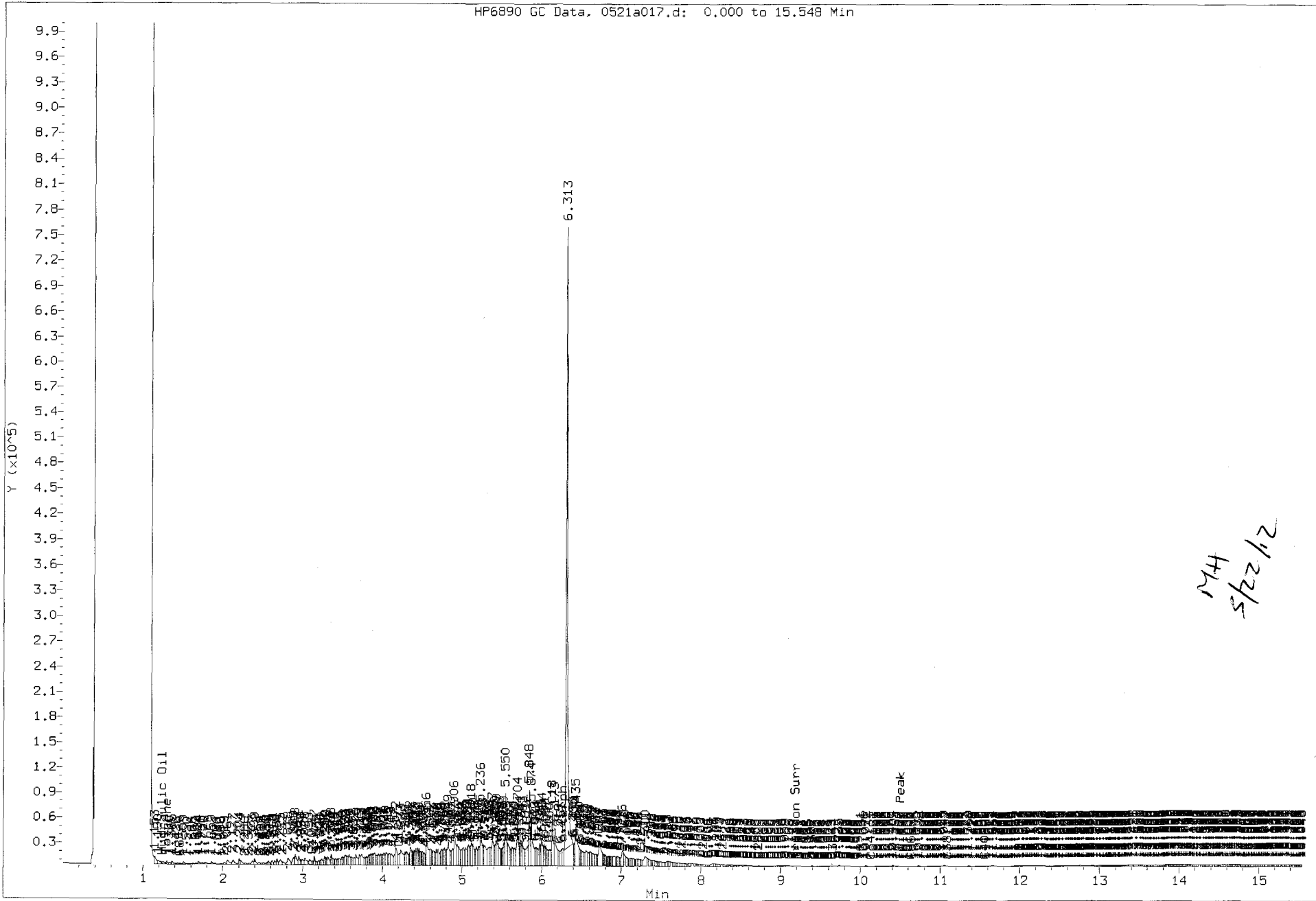
Column diameter: 0.25



UJ52-01991

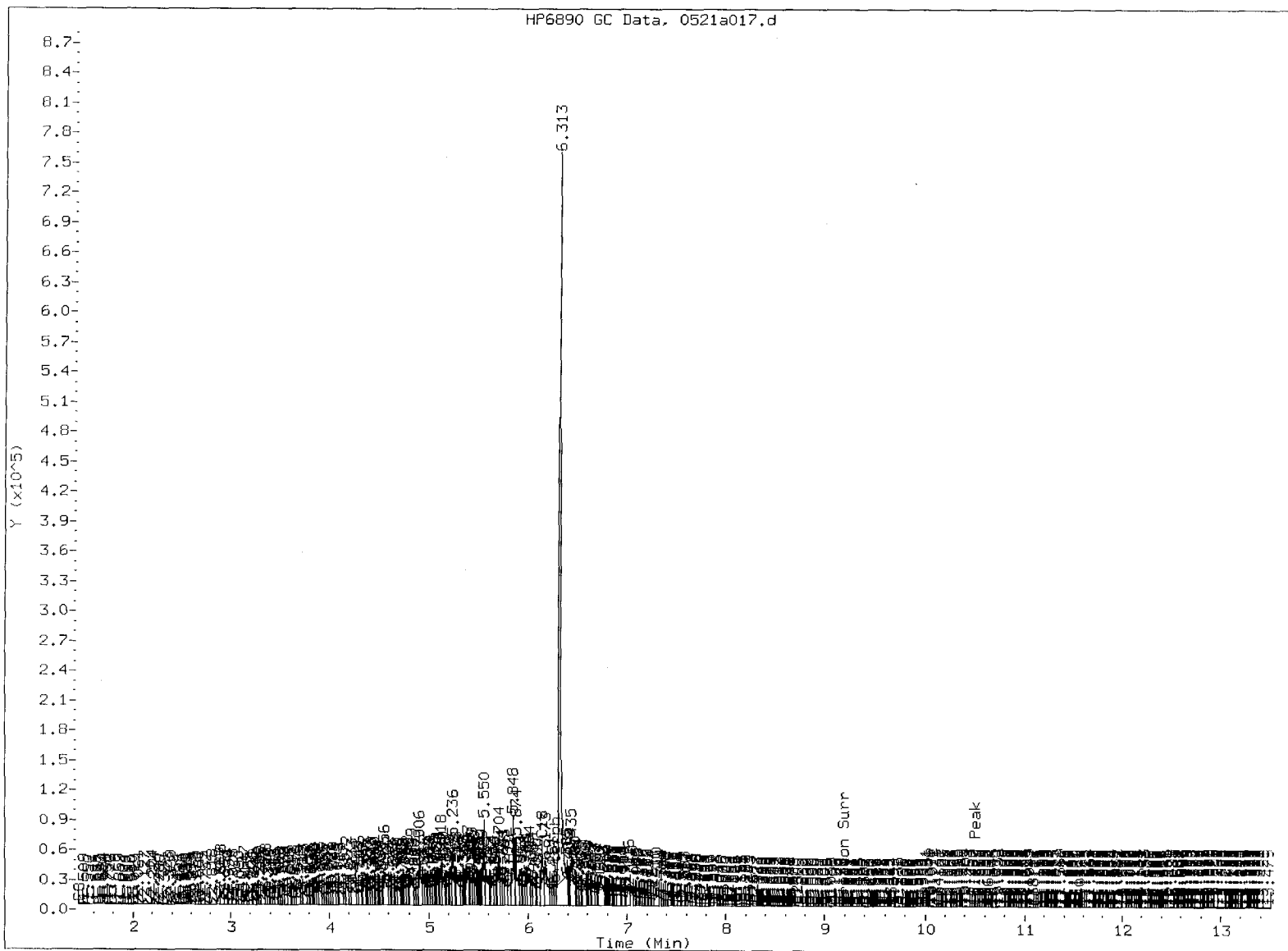
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Injection Date: 21-MAY-2012 16:13
Instrument: fid4a.i
Client Sample ID:

HP6890 GC Data, 0521a017.d: 0.000 to 15.548 Min



UUS2:01992

HP6890 GC Data, 0521a017.d



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/22/12

Analytical Resources Inc.
407S TPH Quantitation Report

MH
5/22/12

Data file: /chem3/fid4a.i/20120521.b/0521a018.d ARI ID: MOIL #2
 Method: /chem3/fid4a.i/20120521.b/ftphfid4a.m Client ID:
 Instrument: fid4a.i Injection: 21-MAY-2012 16:37
 Operator: MH
 Report Date: 05/22/2012 Dilution Factor: 1
 Macro: 15-MAY-2012
 Calibration Dates: Gas:10-MAY-2012 Diesel:15-MAY-2012 M.Oil:14-MAY-2012

FID:4A RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|--------|--------|--------|--------|-------------------|------------|----------|
| Toluene | 1.264 | 0.003 | 45255 | 100477 | GAS (Tol-C12) | 203520 | 13.53 |
| C8 | 1.541 | 0.073 | 1274 | 4920 | DIESEL (C12-C24) | 521148 | 38.24 |
| C10 | 3.122 | -0.001 | 613 | 374 | M.OIL (C24-C38) | 4694165 | 481.47 |
| C12 | 4.194 | -0.008 | 862 | 886 | AK-102 (C10-C25) | 773031 | 47.74 |
| C14 | 4.924 | 0.001 | 749 | 1168 | AK-103 (C25-C36) | 4238035 | 546.19 M |
| C16 | 5.557 | -0.006 | 658 | 808 | OR.DIES (C10-C28) | 2193852 | 170.82 |
| C18 | 6.171 | 0.029 | 341 | 360 | CRUDE (Tol-C40) | 5558563 | 735.97 M |
| C20 | 6.720 | -0.004 | 768 | 293 | MIN.OIL (C24-C38) | 4694165 | 349.25 M |
| C22 | 7.268 | 0.000 | 4474 | 3621 | | | |
| C24 | 7.777 | -0.001 | 19135 | 6749 | | | |
| C25 | 8.024 | -0.004 | 25480 | 20413 | | | |
| C26 | 8.272 | 0.007 | 31000 | 45080 | | | |
| C28 | 8.722 | 0.001 | 34908 | 21913 | | | |
| C32 | 9.665 | 0.000 | 27999 | 20086 | | | |
| C34 | 10.147 | 0.001 | 22025 | 12983 | CREOSOT (C12-C22) | 160673 | 43.73 |
| Filter Peak | 10.517 | 0.001 | 14670 | 17445 | | | |
| C36 | 10.634 | 0.007 | 13177 | 7207 | | | |
| C38 | 11.109 | 0.011 | 7528 | 4370 | | | |
| C40 | 11.556 | -0.004 | 4209 | 2673 | | | |
| o-terph | 6.326 | 0.013 | 286 | 147 | JET-A (C10-C18) | 124671 | 8.40 |
| Triacon Surr | 9.194 | 0.001 | 665258 | 744597 | | | |

M Indicates manual integration within range.

Range Times: NW Diesel(4.202 - 7.778) AK102(3.12 - 8.03) Jet A(3.12 - 6.14)
 NW M.Oil(7.78 - 11.10) AK103(8.03 - 10.63) OR Diesel(3.12 - 8.72)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 147 | 0.0 | 0.0 |
| Triacontane | 744597 | 43.4 | 96.5 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 17187.2 | 15-MAY-2012 |
| Triacon Surr | 17141.7 | 14-MAY-2012 |
| Gas | 15043.9 | 10-MAY-2012 |
| Diesel | 13628.0 | 15-MAY-2012 |
| Motor Oil | 9749.6 | 14-MAY-2012 |
| AK102 | 16193.0 | 15-MAY-2012 |
| AK103 | 7759.3 | 29-DEC-2011 |
| JetA | 14842.0 | 13-APR-2011 |
| Min Oil | 13440.7 | 09-MAY-2012 |
| OR Diesel | 12843.0 | 22-JAN-2010 |
| CRUDE | 7552.8 | 22-MAY-2010 |
| Bunker C | 7100.0 | 16-DEC-2011 |
| Creosote | 3674.2 | 15-AUG-2011 |

Date : 21-MAY-2012 16:37

Client ID:

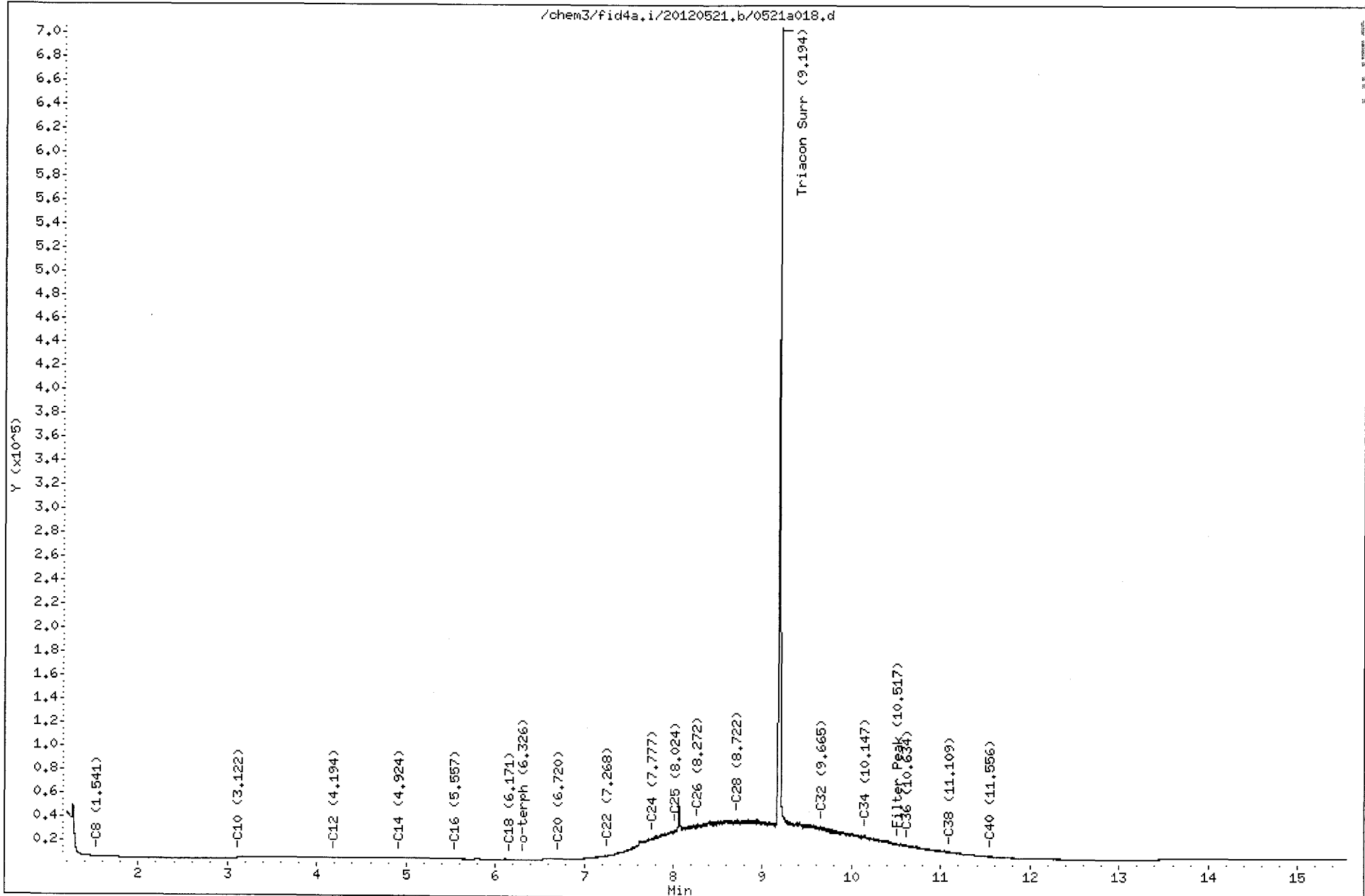
Sample Info: MOIL #2

Instrument: fid4a.i

Operator: MH

Column phase: RTX-1

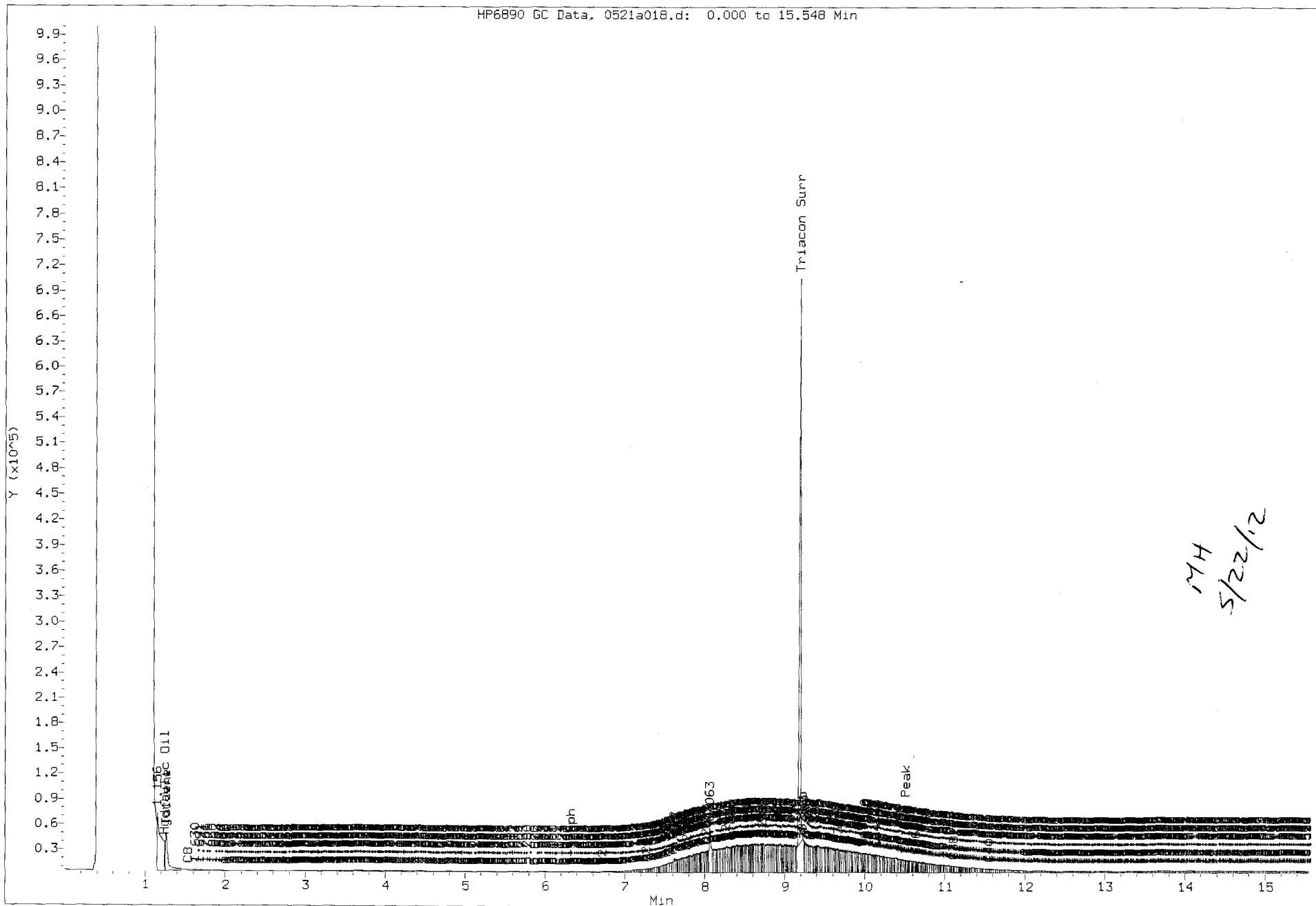
Column diameter: 0.25



0521a018.d

Data File: /chem3/fid4a.1/20120521.b/0521a018.d
Injection Date: 21-MAY-2012 16:37
Instrument: fid4a.1
Client Sample ID:

HP6890 GC Data, 0521a018.d: 0.000 to 15.548 Min

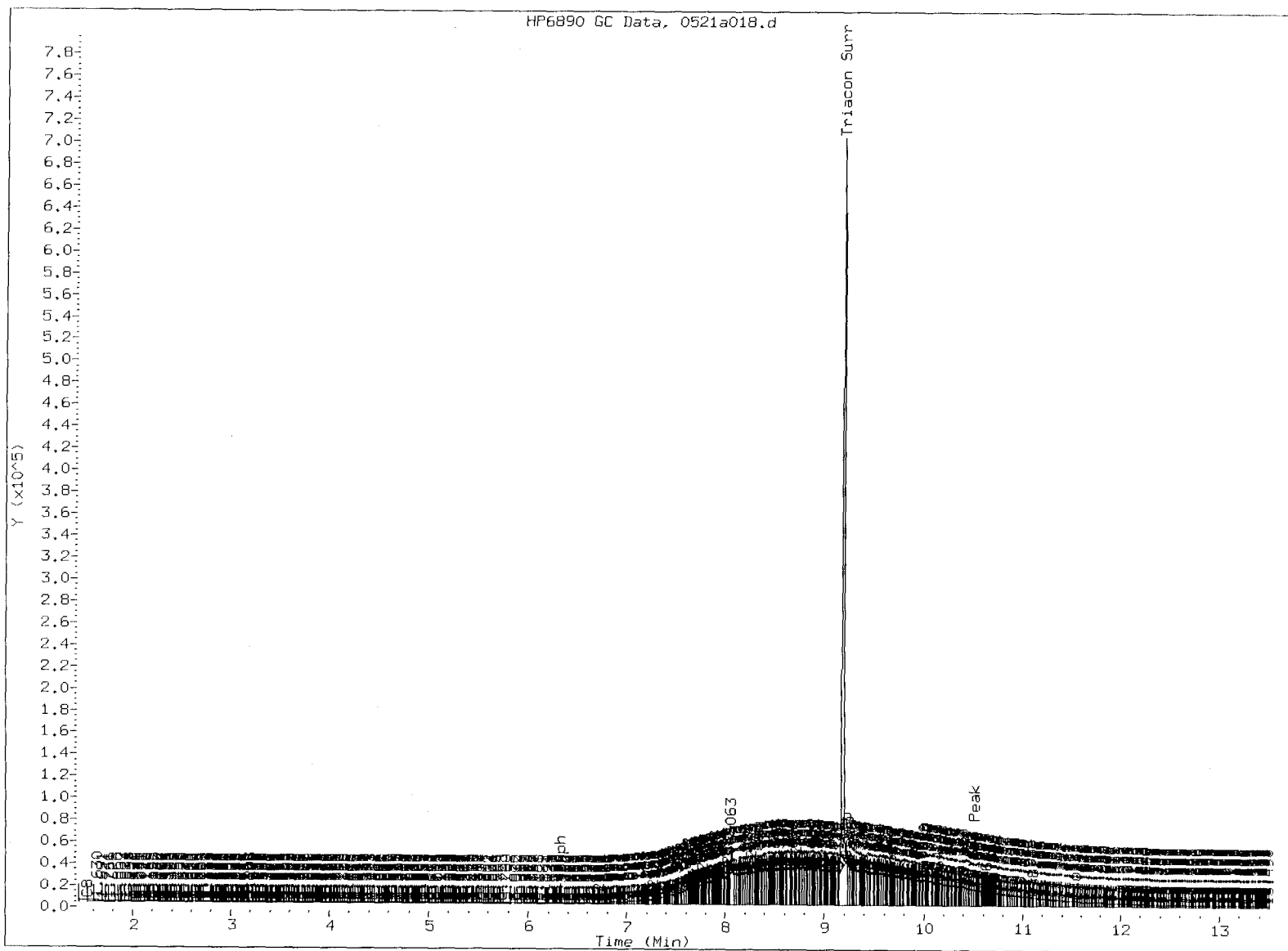


0521a018.d

FID:4A-2C/RTX-1 MOIL #2

FID:4A SIGNAL

HP6890 GC Data, 0521a018.d



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 5/22/12

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: UU52, UU62



Corrective Actions Inorganic Analyses

| | |
|---|-------------------------------|
| Criteria Flagged: | ARI Job No.: <u>0052</u> |
| Unacceptable Blank: <input type="checkbox"/> | Date of Event: <u>5.23.12</u> |
| Unacceptable Duplicate: <input type="checkbox"/> | Client ID: <u>Anchor</u> |
| Unacceptable Spike: <input checked="" type="checkbox"/> | Method/Element: <u>ICPMS</u> |
| Unacceptable Reference: <input type="checkbox"/> | Prep Code: <u>SLON</u> |

Details of Problem/Recommended Corrective Action:

0052 CSph Sb 10% R

Cpost OK

Samples Affected: _____

Corrective Action Taken: Cpost Sb

Analyst Initials: RLD **Supervisor:** [Signature]

Date: 5.24.12 **Date:** 6.21.12



SPIKING LOG

Final Volume 50

Sample ID UUS2 CSPK, MBISPK

Analyst: KM

Final Volume (Hg): 50

Date: 5/18/12

| Prepcode: | SNC | | | GFA |
|-----------------|-------------|------------|----|-----|
| Spike Solution: | ICP Routine | ICP No GFA | | |
| Standard No.: | 2902-1 | | | |
| Vol Added (ml): | 1.0 | | | |
| Ag | 50 | | | 2.0 |
| Al | 200 | 200 | | |
| As | 200 | | | 10 |
| Ba | 200 | 200 | | |
| Be | 50 | 50 | | |
| Ca | 1000 | 1000 | | |
| Cd | 50 | | | 2.0 |
| Co | 50 | 50 | | |
| Cr | 50 | 50 | 50 | |
| Cu | 50 | 50 | 50 | |
| Fe | 200 | 200 | | |
| K | 1000 | 1000 | | |
| Mg | 1000 | 1000 | | |
| Mn | 50 | 50 | | |
| Na | 1000 | 1000 | | |
| Ni | 50 | 50 | 50 | |
| Pb | 200 | | | 10 |
| Se | 200 | | | 10 |
| Sr | 50 | 50 | | |
| Tl | 200 | | | 10 |
| V | 50 | 50 | | |
| Zn | 50 | 50 | 50 | |

| SWN | ICP-MS #1 | ICP-MS #2 | ICP-MS Minerals |
|-----|-----------|-----------|-----------------|
| | 2427-9 | 2893-16 | |
| | 1.0 | 1.0 | |
| Ag | 25 | | |
| Al | | | 500 |
| As | 25 | | |
| Ba | 25 | | |
| Be | 25 | | |
| Ca | | | 500 |
| Cd | 25 | | |
| Co | 25 | | |
| Cr | 25 | | |
| Cu | 25 | | |
| Fe | | | 500 |
| K | | | 500 |
| Mg | | | 500 |
| Mn | 25 | | |
| Mo | | 25 | |
| Na | | | 500 |
| Ni | 25 | | |
| Pb | 25 | | |
| Sb | | 25 | |
| Se | 80 | | |
| Tl | 25 | | |
| U | 25 | | |
| V | 25 | | |
| Zn | 80 | | |

| Element | Prepcode | Analysis | Stock Conc. | Stock Added | Std No. |
|----------|----------|----------|-------------|-------------|---------|
| Hg | SMM | CVA | 1.0 | 0.05 | 2908-7 |
| Hg MBSPK | SMM | CVA | 1.0 | 0.1 | 2908-7 |
| Sb | | ICP | 2000 | | |
| Sb | | GFA | 100 | | |
| B | | ICP | 500 | | |
| Mo | | ICP | 500 | | |
| Si | | ICP | 10000 | | |
| Sn | | ICP | 500 | | |
| Ti | | ICP | 2000 | | |

Additional Elements:

| Element | Prepcode | Analysis | Stock Conc. | Stock Added | Std. No. |
|---------|----------|----------|-------------|-------------|----------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



Mercury Digestion Log

Prep Code: SMM

Analyst: KM

Bath Temp: 95°C

Start Time: 1445

Matrix: Soil

Date: 5/18/12

End Time: 1515

| ARI Sample ID | Sample Bottle # | pH<2 | Initial Weight (g) Volume (mL) | Final Volume (mL) | # KMnO ₄ Aliquots | CLP | Comments |
|---------------------------|-----------------|------|-----------------------------------|-------------------|------------------------------|-----|----------|
| UU52 A | 3 | — | 0.225 | 50.0 | 5/26 1 | Y | |
| UU52 B | 3 | — | 0.269 | 50.0 | 1 | Y | |
| UU52 C | 3 | — | 0.267 | 50.0 | 1 | Y | |
| UU52 D | 3 | — | 0.247 | 50.0 | 1 | Y | |
| UU52 E | 3 | — | 0.270 | 50.0 | 1 | Y | |
| UU52 CDUP | 3 | — | 0.268 | 50.0 | 1 | Y | |
| UU52 CSPK | 3 | — | 0.267 | 50.0 | 1 | Y | |
| UU52 F | 3 | — | 0.216 | 50.0 | 1 | Y | |
| UU52 G | 3 | — | 0.223 | 50.0 | 1 | Y | |
| UU52 H | 3 | — | 0.253 | 50.0 | 1 | Y | |
| UU52 I | 3 | — | 0.234 | 50.0 | 1 | Y | |
| UU52 J | 3 | — | 0.286 | 50.0 | 1 | Y | |
| UU52 MBI | — | — | — | 50.0 | 1 | Y | |
| UU52 MBISPK | — | — | — | 50.0 | 1 | Y | |
| KM 5/18/12 | | | | | | | |

Chemical/Reagent ID:

HNO₃: I7466

H₂SO₄: I7184

HCl: —

5% K₂S₂O₈: MP2272

5% KMnO₄: MP2273

Digest Tube Lot: 1108215



Digestion Log

Start time: 1420

Analyst: KM

Date: 5/18/12

Matrix: soil Block ID: #1/#2 Block Temp: 90°C/88°C Thermometer: MP30/MP12

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>SWC</u> | | Prep Code: <u>SWN</u> | | Comments |
|---------------|-------|------|----------------------------|----------------|----------------------------|----------------|----------|
| | | | Initial Wt (g) Vol (mL) | Final Vol (mL) | Initial Wt (g) Vol (mL) | Final Vol (mL) | |
| UU52 A | 3 | — | 1.033 | 50.0 | 1.052 | 50.0 | |
| UU52 B | 3 | — | 1.024 | 50.0 | 1.039 | 50.0 | |
| UU52 C | 3 | — | 1.050 | 50.0 | 1.013 | 50.0 | |
| UU52 CDMF | 3 | — | 1.051 | 50.0 | 1.012 | 50.0 | |
| UU52 CSPK | 3 | — | 1.054 | 50.0 | 1.011 | 50.0 | |
| UU52 D | 3 | — | 1.017 | 50.0 | 1.063 | 50.0 | |
| UU52 E | 3 | — | 1.034 | 50.0 | 1.036 | 50.0 | |
| UU52 F | 3 | — | 1.049 | 50.0 | 1.070 | 50.0 | |
| UU52 G | 3 | — | 1.086 | 50.0 | 1.041 | 50.0 | |
| UU52 H | 3 | — | 1.057 | 50.0 | 1.014 | 50.0 | |
| UU52 I | 3 | — | 1.038 | 50.0 | 1.065 | 50.0 | |
| UU52 J | 3 | — | 1.082 | 50.0 | 1.019 | 50.0 | |
| UU52 MBI | — | — | — | 50.0 | — | 50.0 | |
| UU52 MBISPK | — | — | — | 50.0 | — | 50.0 | |
| KM 5/18/12 | | | | | | | |

Chemical/Reagent ID:

HNO₃: MP2280 HCl: I7305 H₂O₂: I7403 Tube Lot #: 111173
I7466



Total Solids Bench Sheet

Laboratory Section MTAB

Oven Identification: 07 Balance ID: 068755
 Samples in Oven: Date: 5-21-12 Time: 0835 Temp: 102°C Analyst: DM
 Removed from Oven: Date: 5-22-12 Time: 0700 Temp: 103°C Analyst: DM

| ARI Sample ID | Tare Weight (g) | Tare + Sample Wet (g) | Tare + Sample Dry (g) | Date & Time Last Weight | Final Weighting >12 hrs ¹ |
|-----------------------|-----------------|-----------------------|-----------------------|-------------------------|--------------------------------------|
| U069 A | 0.952 | 10.549 | 10.072 | - | ✓ |
| U077 A | 1.004 | 10.448 | 8.064 | - | ✓ |
| U077 B | 0.981 | 10.456 | 6.251 | - | ✓ |
| U077 C | 1.032 | 10.541 | 4.178 | - | ✓ |
| U077 D | 0.967 | 10.348 | 6.191 | - | ✓ |
| U077 E | 0.990 | 10.262 | 5.721 | - | ✓ |
| U052 A | 1.020 | 10.870 | 1.982 | - | ✓ |
| U052 B | 1.011 | 10.051 | 1.947 | - | ✓ |
| U052 C | 1.007 | 10.634 | 2.026 | - | ✓ |
| U052 D | 0.999 | 10.912 | 1.995 | - | ✓ |
| U052 E | 0.966 | 10.745 | 1.941 | - | ✓ |
| U052 F | 0.953 | 10.608 | 1.711 | - | ✓ |
| U062 G | 1.002 | 10.263 | 1.903 | - | ✓ |
| U052 H | 0.933 | 10.903 | 2.509 | - | ✓ |
| U052 I | 1.018 | 10.608 | 2.058 | - | ✓ |
| U052 J | 1.005 | 10.326 | 1.963 | - | ✓ |
| 5-21-12 DM | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

1) Place a check mark in this column if samples have dried > 12 but < 24 hours. When samples have been at 104°C < 12 hours, constant weight must be verified as described in SOP 10023S. Use a 2nd bench sheet for additional weightings.



Mercury Digestion Log

Prep Code: TWM

Matrix: Water

Analyst: MJ

Date: 05.18.12

Bath Temp: 90C

Start Time: 1035

End Time: 1235

| ARI Sample ID | Sample Bottle # | pH<2 | Initial Weight (g) Volume (mL) | Final Volume (mL) | # KMnO ₄ Aliquots | CLP | Comments |
|---------------|-----------------|------|-----------------------------------|-------------------|------------------------------|-----|----------|
| UU62 J | 1 | ✓ | 20.0 | 20.0 | ^{05.26} 1 | Y | |
| UU62 JUMP | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 JSPK | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 K | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 MBI | — | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 MBSPK | — | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU66 A | 6 | ✓ | 20.0 | 20.0 | ^{05.27} 1 | N | BATCH |
| UU66 B | 6 | ✓ | 20.0 | 20.0 | 1 | N | |
| UU66 MB | — | ✓ | 20.0 | 20.0 | 1 | N | |
| UU66 MBSPK | — | ✓ | 20.0 | 20.0 | 1 | N | |
| UU68 A | 6 | ✓ | 20.0 | 20.0 | ^{05.27} 1 | N | |
| 05.18.12 MJ | | | | | | | |

Chemical/Reagent ID:

HNO₃: I7466

H₂SO₄: I7184

HCl: —

5% K₂S₂O₈: MP2272

5% KMnO₄: MP2273

Digest Tube Lot: 111173



Digestion Log

Analyst: MJ Date: 05.18.12 Time: 0955
 Matrix: Water Block ID: #7 Block Temp: 90°C Thermometer: MP28

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>TWC</u> | | Prep Code: | | Comments |
|------------------------|-------|------|----------------------------|----------------|----------------------------|----------------|------------------|
| | | | Initial Wt (g) Vol (mL) | Final Vol (mL) | Initial Wt (g) Vol (mL) | Final Vol (mL) | |
| UU57 A | 7 | — | 50.0 | 50.0 | | | preserved in lab |
| UU57 ADWP | 7 | — | 50.0 | 50.0 | | | |
| UU57 ASPK | 7 | — | 50.0 | 50.0 | | | |
| UU57 B | 7 | — | 50.0 | 50.0 | | | |
| UU57 C | 6 | ✓ | 50.0 | 50.0 | | | |
| UU57 D | 6 | — | 50.0 | 50.0 | | | preserved in lab |
| UU57 E | 6 | ✓ | 50.0 | 50.0 | | | |
| UU57 F | 10 | ✓ | 50.0 | 50.0 | | | |
| UU57 H | 10 | ✓ | 50.0 | 50.0 | | | |
| UU57 MB | — | ✓ | 50.0 | 50.0 | | | |
| UU57 MBSPK | — | ✓ | 50.0 | 50.0 | | | |
| UU62 J | 1 | ✓ | 50.0 | 50.0 | | | |
| UU62 JOWP | 1 | ✓ | 50.0 | 50.0 | | | |
| UU62 JSFK | 1 | ✓ | 50.0 | 50.0 | | | |
| UU62 K | 1 | ✓ | 50.0 | 50.0 | | | |
| UU62 MBI | — | ✓ | 50.0 | 50.0 | | | |
| UU62 MBSPK | — | ✓ | 50.0 | 50.0 | | | |
| UU72 A | 1 | ✓ | 50.0 | 50.0 | | | |
| UU72 MB | — | ✓ | 50.0 | 50.0 | | | |
| UU72 MBSPK | — | ✓ | 50.0 | 50.0 | | | |
| 05.18.12 MJ | | | | | | | |

Chemical/Reagent ID:
 HNO₃: I7466 HCl: MP2295 H₂O₂: — Tube Lot #: 111173



Digestion Log

Analyst: KM Date: 5/21/12 Time: 1040
Matrix: Water Block ID: #12 Block Temp: 90°C Thermometer: MP39

| 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) | |
| UU66 A | 6 | ✓ | 50.0 | 25.0 | | | - Batched |
| UU66 B | 6 | ✓ | 50.0 | 25.0 | | | |
| UU66 C | 6 | ✓ | 50.0 | 25.0 | | | |
| UU66 MB | — | ✓ | 50.0 | 25.0 | | | |
| UU66 MBSPK | — | ✓ | 50.0 | 25.0 | | | |
| UU68 A | 6 | ✓ | 50.0 | 25.0 | | | - preserved in lab |
| UU57 A | 7 | — | 50.0 | 25.0 | | | |
| UU57 ADUP | 7 | — | 50.0 | 25.0 | | | |
| UU57 ASPK | 7 | — | 50.0 | 25.0 | | | |
| UU57 B | 7 | — | 50.0 | 25.0 | | | preserved in lab |
| UU57 C | 6 | ✓ | 50.0 | 25.0 | | | |
| UU57 D | 6 | — | 50.0 | 25.0 | | | |
| UU57 E | 6 | ✓ | 50.0 | 25.0 | | | |
| UU57 F | 10 | ✓ | 50.0 | 25.0 | | | |
| UU57 G | 2 | ✓ | 50.0 | 25.0 | | | |
| UU57 H | 10 | ✓ | 50.0 | 25.0 | | | |
| UU57 MB | — | ✓ | 50.0 | 25.0 | | | |
| UU57 MBSPK | — | ✓ | 50.0 | 25.0 | | | |
| UU62 J | 1 | ✓ | 50.0 | 25.0 | | | |
| UU62 JDUP | 1 | ✓ | 50.0 | 25.0 | | | |
| UU62 JSPK | 1 | ✓ | 50.0 | 25.0 | | | |
| UU62 K | 1 | ✓ | 50.0 | 25.0 | | | |
| UU62 MBI | — | ✓ | 50.0 | 25.0 | | | |
| UU62 MBISPK | — | ✓ | 50.0 | 25.0 | | | |
| | | | | <u>KM</u> | <u>5/21/12</u> | | |

Chemical/Reagent ID:

HNO₃: MP2293 HCl: — H₂O₂: I7403 Tube Lot #: N11173

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: UU52, UU62



IEC Date: 5.29.12

Analysis Date: 5.29.12

Analyst: BW

LR Date: 1.12.12

Page: 1 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep. Code | Dilution | Comments |
|------------|-------------|---------------|------------|----------|-------------------|
| | | std 0 | | | 2941-1 |
| | | ↓ 2 | | | 2954-3 |
| | | ↓ 3 | | | ↓ -4 |
| | | ↓ 4 | | | ↓ -5 |
| | | ↓ 5 | | | ↓ -6 |
| | | ICV | | | Sb Si high 2925-3 |
| | | ICB | | | |
| ✓ | | 222222 | | | Ni low |
| | | std 0 | | | |
| | | CCV1 | | | Sb Si high |
| | | CCB1 | | | |
| | | CR1 | | | |
| | | ICSA | | | Sn - 0.027 |
| | | ICSAB | | | |
| | | CCV2 | | | Sb Si high |
| | | CCB2 | | | |
| | | DI check | | | |
| | | UU52 UBI | SWC | 2 | |
| | | QC21 | | | Sb high |
| | | QC7M | | | Si high |
| | | UU52 A | SWC | 2 | |
| | | ↓ B | ↓ | ↓ | |
| | | ↓ cdyp | ↓ | ↓ | ✓ |
| | | ↓ C | ↓ | ↓ | |



IEC Date: _____ Analysis Date: 5.29.12 Analyst: BW
LR Date: _____ Page: 2 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep. Code | Dilution | Comments |
|------------|-------------|------------------------|------------|----------|---|
| | | UUS2 C ^{spk} | SOC | 2 ✓ | |
| | | ↓ UB1 ^{spk} | ↓ | ↓ ✓ | |
| | | CC✓3 | | | Sb Si high |
| | | CCB3 | | | |
| | | U62 UB1 | TWC | | |
| | | ↓ K | ↓ | | |
| | | J ^{dup} | | | ✓ |
| | | ↓ J | ↓ | | |
| | | J ^{spk} | | | ✓ |
| | | UUS2 D | SOC | 2 | |
| | | ↓ E | ↓ | | |
| | | F | | | |
| | | ↓ G | ↓ | | |
| | | U62 UB1 ^{spk} | TWC | | ✓ |
| | | CCV4 | | | Sb Si high |
| | | CCB4 | | | |
| | ✓ | U94 UB | COND | | |
| | | ↓ B | ↓ | | noisy - ferrn |
| | | C | | | |
| | | A ^{dup} | | | ✓ |
| | | ↓ A | ↓ | | |
| | ✓ | A ^{spk} | | | 0.08 ml ICP ^{spk} Fe 70.6% Fe 70.2% |
| | | UUS2 H | SOC | 2 | |
| | | ↓ I | ↓ | ↓ | |



IEC Date: _____

Analysis Date: 5.29.12

Analyst: AW

LR Date: _____

Page: 3 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep. Code | Dilution | Comments |
|------------|-------------|---------------|------------|----------|--------------------------|
| | | UU52 S | SWC | 2 | |
| | | UU94 MBSph | WMW | | ✓ 0.08 ml ICP sph |
| | | CCV S | | | sb Si high |
| | | CCB S | | | end package |
| | | UU72 MB | TWC | | |
| | | UU69 MB | SWC | 2 | Al Ca cont. - NR |
| | | UU19 MB | LEN | 5 | |
| A | | ↓ Adep | ↓ | ↓ | ✓ |
| ↓ | | ↓ A | ↓ | ↓ | ✓ |
| | | ↓ Ash | ↓ | ↓ | ✓ |
| | | UU94 B | WMW | | |
| | | ↓ E | ↓ | ↓ | |
| | | UU69 A | SWC | 2 | |
| | | ↓ MBSph | ↓ | ↓ | ✓ |
| | | CCV | | | sb Si high |
| | | CCB | | | |
| | ✓ | UU57 MB | TWC | | CB out |
| | | B | | | |
| | | C | | | As high - rem 1/2 |
| | | D | | | As Mg Na high rem 1/5 |
| | | E | | | |
| | | F | | | |
| | | Adep | | | 5/30/12 Ba high - rs 1/2 |
| | | A | | | |

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5.29.12

| ICP 1 | Analyst <i>Law 5:30</i> | Peer <i>HST</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 | ✓ | ✓ | ↓ |
| Samples: | | | |
| RSD's & SD's | ✓ | ✓ | see log |
| Internal Standards | ✓ | ✓ | ↓ |
| 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 | — | — | |

Nebulizer Parameters: Hg_ReAlign

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 179.0 kPa | 0.55 L/min |

```
=====
5/29/2012 1:01:56 PM Hg ReAlign... Actual peak offset (nm): -0.000
Drift (nm): 0.000 Slit adjustment: 0
=====
```

Align View XY Axial for analyte Mn 257.610

| X-position | Y-position | Intensity |
|------------|------------|-----------|
| -2.0 | 15.0 | 215197.7 |
| -1.6 | 15.0 | 311095.7 |
| -1.2 | 15.0 | 423298.4 |
| -0.8 | 15.0 | 545017.7 |
| -0.4 | 15.0 | 650944.2 |
| 0.0 | 15.0 | 703656.1 |
| 0.4 | 15.0 | 700694.3 |
| 0.8 | 15.0 | 642065.8 |
| 1.2 | 15.0 | 550643.7 |
| 1.6 | 15.0 | 443431.8 |
| 2.0 | 15.0 | 346523.3 |
| 0.0 | 10.0 | 8563.9 |
| 0.0 | 10.5 | 25529.1 |
| 0.0 | 11.0 | 45220.2 |
| 0.0 | 11.5 | 76429.5 |
| 0.0 | 12.0 | 114433.9 |
| 0.0 | 12.5 | 240980.2 |
| 0.0 | 13.0 | 352181.9 |
| 0.0 | 13.5 | 454166.7 |
| 0.0 | 14.0 | 582531.5 |
| 0.0 | 14.5 | 704752.6 |
| 0.0 | 15.0 | 726172.1 |
| 0.0 | 15.5 | 668801.3 |
| 0.0 | 16.0 | 567404.2 |
| 0.0 | 16.5 | 360661.0 |
| 0.0 | 17.0 | 263155.9 |
| 0.0 | 17.5 | 190530.0 |
| 0.0 | 18.0 | 132151.4 |
| 0.0 | 18.5 | 87719.1 |
| 0.0 | 19.0 | 27272.8 |
| 0.0 | 19.5 | 11013.0 |
| 0.0 | 20.0 | 4902.7 |
| -0.8 | 15.0 | 562067.5 |
| -0.4 | 15.0 | 652647.7 |
| 0.0 | 15.0 | 710829.6 |
| 0.4 | 15.0 | 691983.4 |
| 0.8 | 15.0 | 637412.4 |
| 0.0 | 13.0 | 378791.5 |
| 0.0 | 13.5 | 463068.6 |
| 0.0 | 14.0 | 587410.1 |
| 0.0 | 14.5 | 716379.4 |
| 0.0 | 15.0 | 709146.1 |
| 0.0 | 15.5 | 637767.2 |
| 0.0 | 16.0 | 555588.7 |
| 0.0 | 16.5 | 355263.3 |
| 0.0 | 17.0 | 256250.8 |

```
-----
5/29/2012 1:07:19 PM aligned for analyte Mn 257.610
```

```
X viewing position set to 0.0 mm having Peak intensity 716379.4 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 716379.4 for Axial viewing
=====
```

Align View X Radial for analyte Mn 257.610

| X-position | Y-position | Intensity |
|------------|------------|-----------|
| -7.0 | 15.0 | 3714.4 |
| -6.5 | 15.0 | 6007.7 |
| -6.0 | 15.0 | 9372.0 |
| -5.5 | 15.0 | 13704.1 |
| -5.0 | 15.0 | 18742.7 |
| -4.5 | 15.0 | 26057.7 |

| | | |
|------|------|----------|
| -4.0 | 15.0 | 32691.2 |
| -3.5 | 15.0 | 45736.7 |
| -3.0 | 15.0 | 54155.2 |
| -2.5 | 15.0 | 82443.8 |
| -2.0 | 15.0 | 128472.2 |
| -1.5 | 15.0 | 208168.0 |
| -1.0 | 15.0 | 346064.9 |
| -0.5 | 15.0 | 399115.1 |
| 0.0 | 15.0 | 393200.7 |
| 0.5 | 15.0 | 361595.5 |
| 1.0 | 15.0 | 309583.9 |
| 1.5 | 15.0 | 241939.2 |
| 2.0 | 15.0 | 160555.6 |
| 2.5 | 15.0 | 84058.5 |
| 3.0 | 15.0 | 31477.8 |
| 3.5 | 15.0 | 27480.0 |
| 4.0 | 15.0 | 29508.4 |
| 4.5 | 15.0 | 25781.5 |
| 5.0 | 15.0 | 19660.8 |
| 5.5 | 15.0 | 13363.9 |
| 6.0 | 15.0 | 10263.5 |
| 6.5 | 15.0 | 6797.6 |
| 7.0 | 15.0 | 4171.5 |

5/29/2012 1:10:56 PM aligned for analyte Mn 257.610

X viewing position set to -0.5 mm having Peak intensity 399115.1 for Radial viewing

=====
Analysis Begun

Start Time: 5/29/2012 1:22:53 PM

Plasma On Time: 5/29/2012 12:14:35 PM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\Administrator\Sample Information\CRISSET.sif

Batch ID:

Results Data Set: PE120529

Results Library: C:\pe\metals\Results\Results.mdb

=====
Method Loaded

Method Name: ARIIEC6AN.552AS

Method Last Saved: 5/25/2012 2:47:26 PM

IEC File: IEC47A.iec

MSF File:

Method Description: 12Axial Elements

| Analyte | Calibration Equation | Processing | View | Internal Standard | IEC |
|------------|----------------------|------------|--------|-------------------|-----|
| Ag 328.068 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Al 308.215 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| As 188.979 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| B 249.677 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Ba 233.527 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Be 313.042 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Ca 317.933 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | No |
| Cd 228.802 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Co 228.616 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Cr 267.716 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Cu 324.752 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Fe 273.955 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| K 766.490 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | No |
| Mg 279.077 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Mn 257.610 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Mo 202.031 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Na 589.592 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | No |
| Na 330.237 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Ni 231.604 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Pb 220.353 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Sb 206.836 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Se 196.026 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Si 288.158 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Sn 189.927 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Sr 421.552 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | No |

| Retention Time | Integration | Peak Area | Radial | ScR | Yes/No |
|----------------|---------------|-----------|--------|-------------|--------|
| Ti 334.903 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| Tl 190.801 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| V 292.402 | Lin Thru 0 | Peak Area | Axial | ScA 357.253 | Yes |
| Zn 206.200 | Lin Thru 0 | Peak Area | Radial | ScR 361.383 | Yes |
| ScA 357.253 | Lin, Calc Int | Peak Area | Axial | n/a | n/a |
| ScR 361.383 | Lin, Calc Int | Peak Area | Radial | n/a | n/a |

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 5/29/2012 1:22:53 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: Calib Blank 1

| Analyte | Mean Corrected | | | Conc. | Calib Units |
|-------------|----------------|----------|--------|--------|-------------|
| | Intensity | Std.Dev. | RSD | | |
| ScA 357.253 | 1913709.3 | 12092.53 | 0.63% | 100.0 | % |
| ScR 361.383 | 196436.4 | 245.94 | 0.13% | 100.00 | % |
| Ag 328.068† | -30.8 | 20.47 | 66.50% | [0.00] | mg/L |
| Al 308.215† | -166.9 | 9.79 | 5.87% | [0.00] | mg/L |
| As 188.979† | 45.1 | 2.91 | 6.45% | [0.00] | mg/L |
| B 249.677† | -161.3 | 0.87 | 0.54% | [0.00] | mg/L |
| Ba 233.527† | -60.6 | 1.23 | 2.03% | [0.00] | mg/L |
| Be 313.042† | 766.6 | 12.11 | 1.58% | [0.00] | mg/L |
| Ca 317.933† | -15.4 | 10.18 | 66.22% | [0.00] | mg/L |
| Cd 228.802† | 204.5 | 3.30 | 1.61% | [0.00] | mg/L |
| Co 228.616† | -322.1 | 3.35 | 1.04% | [0.00] | mg/L |
| Cr 267.716† | 106.4 | 6.16 | 5.79% | [0.00] | mg/L |
| Cu 324.752† | 1003.1 | 24.09 | 2.40% | [0.00] | mg/L |
| Fe 273.955† | -43.4 | 2.73 | 6.30% | [0.00] | mg/L |
| K 766.490† | 1795.8 | 19.09 | 1.06% | [0.00] | mg/L |
| Mg 279.077† | -90.3 | 4.46 | 4.94% | [0.00] | mg/L |
| Mn 257.610† | 228.4 | 2.80 | 1.23% | [0.00] | mg/L |
| Mo 202.031† | 76.6 | 3.00 | 3.92% | [0.00] | mg/L |
| Na 589.592† | 2064.1 | 37.73 | 1.83% | [0.00] | mg/L |
| Na 330.237† | -170.8 | 9.12 | 5.34% | [0.00] | mg/L |
| Ni 231.604† | -167.7 | 3.29 | 1.96% | [0.00] | mg/L |
| Pb 220.353† | 100.3 | 3.64 | 3.63% | [0.00] | mg/L |
| Sb 206.836† | -79.7 | 6.54 | 8.20% | [0.00] | mg/L |
| Se 196.026† | 61.0 | 5.20 | 8.52% | [0.00] | mg/L |
| Si 288.158† | 82.6 | 5.07 | 6.14% | [0.00] | mg/L |
| Sn 189.927† | -44.4 | 2.02 | 4.55% | [0.00] | mg/L |
| Sr 421.552† | 362.8 | 30.82 | 8.49% | [0.00] | mg/L |
| Ti 334.903† | 42.2 | 14.76 | 34.96% | [0.00] | mg/L |
| Tl 190.801† | -12.0 | 2.74 | 22.92% | [0.00] | mg/L |
| V 292.402† | 745.5 | 21.19 | 2.84% | [0.00] | mg/L |
| Zn 206.200† | -35.2 | 3.90 | 11.08% | [0.00] | mg/L |

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 5/29/2012 1:28:51 PM
Data Type: Original

Nebulizer Parameters: STD2

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: STD2

| Analyte | Mean Corrected | | | Calib | |
|-------------|----------------|----------|-------|-------|-------|
| | Intensity | Std.Dev. | RSD | Conc. | Units |
| ScA 357.253 | 1924415.4 | 6687.06 | 0.35% | 100.6 | % ✓ |
| ScR 361.383 | 201360.4 | 865.25 | 0.43% | 102.5 | % |
| Ba 233.527† | 71972.9 | 50.17 | 0.07% | [10] | mg/L |
| Cd 228.802† | 487821.5 | 821.75 | 0.17% | [10] | mg/L |
| Co 228.616† | 469944.7 | 766.32 | 0.16% | [10] | mg/L |
| Cr 267.716† | 44134.4 | 25.80 | 0.06% | [10] | mg/L |
| Cu 324.752† | 2438762.4 | 1628.48 | 0.07% | [10] | mg/L |
| Mn 257.610† | 395548.2 | 493.66 | 0.12% | [10] | mg/L |
| V 292.402† | 1346437.1 | 3472.78 | 0.26% | [10] | mg/L |

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 5/29/2012 1:32:40 PM
Data Type: Original

Nebulizer Parameters: STD3

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: STD3

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Units |
|-------------|--------------------------|----------|-------|-------|-------|
| ScA 357.253 | 1881016.5 | 8856.32 | 0.47% | 98.29 | % |
| ScR 361.383 | 197541.0 | 529.95 | 0.27% | 100.6 | % |
| Ag 328.068† | 205403.1 | 808.55 | 0.39% | [1.0] | mg/L |
| As 188.979† | 12735.6 | 208.91 | 1.64% | [10] | mg/L |
| B 249.677† | 16730.9 | 85.28 | 0.51% | [10] | mg/L |
| Be 313.042† | 1400358.3 | 11767.05 | 0.84% | [5.0] | mg/L |
| Na 589.592† | 336916.1 | 3375.18 | 1.00% | [50] | mg/L |
| Ni 231.604† | 18685.7 | 69.85 | 0.37% | [10] | mg/L |
| Pb 220.353† | 70159.9 | 381.82 | 0.54% | [10] | mg/L |
| Se 196.026† | 8317.8 | 136.12 | 1.64% | [10] | mg/L |
| Sr 421.552† | 2276274.0 | 12113.90 | 0.53% | [5] | mg/L |
| Tl 190.801† | 16092.1 | 180.65 | 1.12% | [10] | mg/L |
| Zn 206.200† | 25508.6 | 72.91 | 0.29% | [10] | mg/L |

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 5/29/2012 1:37:00 PM
Data Type: Original

Nebulizer Parameters: STD4

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: STD4

| Analyte | Mean Corrected | | | Calib | |
|-------------|----------------|----------|-------|-------|-------|
| | Intensity | Std.Dev. | RSD | Conc. | Units |
| ScA 357.253 | 1916900.5 | 11776.11 | 0.61% | 100.2 | % |
| ScR 361.383 | 200820.8 | 2830.87 | 1.41% | 102.2 | % |
| Mo 202.031† | 101188.9 | 421.46 | 0.42% | [10] | mg/L |
| Sb 206.836† | 12351.1 | 97.52 | 0.79% | [10] | mg/L |
| Si 288.158† | 12374.2 | 254.02 | 2.05% | [10] | mg/L |
| Sn 189.927† | 31802.4 | 197.56 | 0.62% | [10] | mg/L |
| Ti 334.903† | 190841.8 | 2852.55 | 1.49% | [10] | mg/L |

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 5/29/2012 1:41:13 PM
Data Type: Original

Nebulizer Parameters: STD5

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: STD5

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Units | Calib |
|-------------|--------------------------|----------|-------|-------|-------|-------|
| ScA 357.253 | 1811583.9 | 3381.48 | 0.19% | 94.66 | % | |
| SCR 361.383 | 195868.3 | 987.81 | 0.50% | 99.71 | % | |
| Al 308.215† | 39253.9 | 239.62 | 0.61% | [30] | mg/L | |
| Ca 317.933† | 317324.1 | 456.07 | 0.14% | [30] | mg/L | |
| Fe 273.955† | 118490.9 | 401.02 | 0.34% | [100] | mg/L | |
| K 766.490† | 260584.0 | 690.78 | 0.27% | [100] | mg/L | |
| Mg 279.077† | 31574.7 | 171.46 | 0.54% | [30] | mg/L | |
| Na 330.237† | 2018.1 | 10.53 | 0.52% | [100] | mg/L | |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|------------|-------|------------|-----------|--------|-----------|-------------|---------|
| Ag 328.068 | 1 | Lin Thru 0 | 0.0 | 205400 | 0.00000 | 1.000000 | |
| Al 308.215 | 1 | Lin Thru 0 | 0.0 | 1308 | 0.00000 | 1.000000 | |
| As 188.979 | 1 | Lin Thru 0 | 0.0 | 1274 | 0.00000 | 1.000000 | |
| B 249.677 | 1 | Lin Thru 0 | 0.0 | 1673 | 0.00000 | 1.000000 | |
| Ba 233.527 | 1 | Lin Thru 0 | 0.0 | 7197 | 0.00000 | 1.000000 | |
| Be 313.042 | 1 | Lin Thru 0 | 0.0 | 280100 | 0.00000 | 1.000000 | |
| Ca 317.933 | 1 | Lin Thru 0 | 0.0 | 10580 | 0.00000 | 1.000000 | |
| Cd 228.802 | 1 | Lin Thru 0 | 0.0 | 48780 | 0.00000 | 1.000000 | |
| Co 228.616 | 1 | Lin Thru 0 | 0.0 | 46990 | 0.00000 | 1.000000 | |
| Cr 267.716 | 1 | Lin Thru 0 | 0.0 | 4413 | 0.00000 | 1.000000 | |
| Cu 324.752 | 1 | Lin Thru 0 | 0.0 | 243900 | 0.00000 | 1.000000 | |
| Fe 273.955 | 1 | Lin Thru 0 | 0.0 | 1185 | 0.00000 | 1.000000 | |
| K 766.490 | 1 | Lin Thru 0 | 0.0 | 2606 | 0.00000 | 1.000000 | |
| Mg 279.077 | 1 | Lin Thru 0 | 0.0 | 1052 | 0.00000 | 1.000000 | |
| Mn 257.610 | 1 | Lin Thru 0 | 0.0 | 39550 | 0.00000 | 1.000000 | |
| Mo 202.031 | 1 | Lin Thru 0 | 0.0 | 10120 | 0.00000 | 1.000000 | |
| Na 589.592 | 1 | Lin Thru 0 | 0.0 | 6738 | 0.00000 | 1.000000 | |
| Na 330.237 | 1 | Lin Thru 0 | 0.0 | 20.18 | 0.00000 | 1.000000 | |
| Ni 231.604 | 1 | Lin Thru 0 | 0.0 | 1869 | 0.00000 | 1.000000 | |
| Pb 220.353 | 1 | Lin Thru 0 | 0.0 | 7016 | 0.00000 | 1.000000 | |
| Sb 206.836 | 1 | Lin Thru 0 | 0.0 | 1235 | 0.00000 | 1.000000 | |
| Se 196.026 | 1 | Lin Thru 0 | 0.0 | 831.8 | 0.00000 | 1.000000 | |
| Si 288.158 | 1 | Lin Thru 0 | 0.0 | 1237 | 0.00000 | 1.000000 | |
| Sn 189.927 | 1 | Lin Thru 0 | 0.0 | 3180 | 0.00000 | 1.000000 | |
| Sr 421.552 | 1 | Lin Thru 0 | 0.0 | 455300 | 0.00000 | 1.000000 | |
| Ti 334.903 | 1 | Lin Thru 0 | 0.0 | 19080 | 0.00000 | 1.000000 | |
| Tl 190.801 | 1 | Lin Thru 0 | 0.0 | 1609 | 0.00000 | 1.000000 | |
| V 292.402 | 1 | Lin Thru 0 | 0.0 | 134600 | 0.00000 | 1.000000 | |
| Zn 206.200 | 1 | Lin Thru 0 | 0.0 | 2551 | 0.00000 | 1.000000 | |

=====
Analysis Begun

Start Time: 5/29/2012 1:55:22 PM

Plasma On Time: 5/29/2012 12:14:35 PM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0529.sif

Batch ID:

Results Data Set: PE120529

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 5/29/2012 1:55:24 PM

Data Type: Original

Dilution: 1X

=====
Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

=====
Mean Data: CV

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------|----------|--------------------|----------|-------|
| ScA 357.253 | 1863523.8 | 97.38 % | | 0.168 | | | 0.17% |
| ScR 361.383 | 197733.8 | 100.7 % | | 0.80 | | | 0.79% |
| Ag 328.068† | 199692.9 | 0.9723 mg/L | | 0.00375 | 0.9723 mg/L | 0.00375 | 0.39% |
| Al 308.215† | 2693.8 | 2.019 mg/L | | 0.0217 | 2.019 mg/L | 0.0217 | 1.08% |
| As 188.979† | 2592.9 | 2.035 mg/L | | 0.0080 | 2.035 mg/L | 0.0080 | 0.39% |
| B 249.677† | 1610.1 | 0.9607 mg/L | | 0.00610 | 0.9607 mg/L | 0.00610 | 0.64% |
| Ba 233.527† | 6823.8 | 0.9477 mg/L | | 0.00774 | 0.9477 mg/L | 0.00774 | 0.82% |
| Be 313.042† | 273218.6 | 0.9730 mg/L | | 0.00260 | 0.9730 mg/L | 0.00260 | 0.27% |
| Ca 317.933† | 21511.7 | 2.034 mg/L | | 0.0125 | 2.034 mg/L | 0.0125 | 0.61% |
| Cd 228.802† | 49070.9 | 1.003 mg/L | | 0.0033 | 1.003 mg/L | 0.0033 | 0.33% |
| Co 228.616† | 45184.9 | 0.9596 mg/L | | 0.00352 | 0.9596 mg/L | 0.00352 | 0.37% |
| Cr 267.716† | 4204.5 | 0.9522 mg/L | | 0.00678 | 0.9522 mg/L | 0.00678 | 0.71% |
| Cu 324.752† | 248473.1 | 1.019 mg/L | | 0.0036 | 1.019 mg/L | 0.0036 | 0.35% |
| Fe 273.955† | 2432.4 | 2.052 mg/L | | 0.0175 | 2.052 mg/L | 0.0175 | 0.85% |
| K 766.490† | 53843.2 | 20.66 mg/L | | 0.073 | 20.66 mg/L | 0.073 | 0.35% |
| Mg 279.077† | 2192.4 | 2.086 mg/L | | 0.0130 | 2.086 mg/L | 0.0130 | 0.63% |
| Mn 257.610† | 37865.1 | 0.9577 mg/L | | 0.00183 | 0.9577 mg/L | 0.00183 | 0.19% |
| Mo 202.031† | 10303.6 | 1.018 mg/L | | 0.0022 | 1.018 mg/L | 0.0022 | 0.21% |
| Na 589.592† | 330743.6 | 49.08 mg/L | | 0.204 | 49.08 mg/L | 0.204 | 0.42% |
| Na 330.237† | 1051.5 | 51.98 mg/L | | 0.376 | 51.98 mg/L | 0.376 | 0.72% |
| Ni 231.604† | 1791.2 | 0.9594 mg/L | | 0.00427 | 0.9594 mg/L | 0.00427 | 0.45% |
| Pb 220.353† | 13918.2 | 1.986 mg/L | | 0.0083 | 1.986 mg/L | 0.0083 | 0.42% |
| Sb 206.836† | 2781.2 | 2.251 mg/L | | 0.0088 | 2.251 mg/L | 0.0088 | 0.39% |
| Se 196.026† | 1639.3 | 1.968 mg/L | | 0.0151 | 1.968 mg/L | 0.0151 | 0.77% |
| Si 288.158† | 2781.6 | 2.255 mg/L | | 0.0183 | 2.255 mg/L | 0.0183 | 0.81% |
| Sn 189.927† | 3022.7 | 0.9519 mg/L | | 0.00248 | 0.9519 mg/L | 0.00248 | 0.26% |
| Sr 421.552† | 449426.8 | 0.9872 mg/L | | 0.00505 | 0.9872 mg/L | 0.00505 | 0.51% |
| Ti 334.903† | 19611.5 | 1.026 mg/L | | 0.0022 | 1.026 mg/L | 0.0022 | 0.21% |
| Tl 190.801† | 3173.1 | 1.956 mg/L | | 0.0135 | 1.956 mg/L | 0.0135 | 0.69% |
| V 292.402† | 133242.6 | 1.002 mg/L | | 0.0062 | 1.002 mg/L | 0.0062 | 0.62% |
| Zn 206.200† | 2558.7 | 1.002 mg/L | | 0.0099 | 1.002 mg/L | 0.0099 | 0.99% |

Sequence No.: 2
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 5/29/2012 2:01:26 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|---------------|-----------------------|---------------|----------|---------|----------|-------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1916343.7 | 100.1 % | 0.63 | | | | | 0.63% |
| ScR 361.383 | 198705.3 | 101.2 % | 0.75 | | | | | 0.74% |
| Ag 328.068† | 91.2 | 0.00044 mg/L | 0.000053 | 0.00044 mg/L | 0.000053 | 11.87% | | |
| Al 308.215† | -3.1 | -0.00237 mg/L | 0.005001 | -0.00237 mg/L | 0.005001 | 211.08% | | |
| As 188.979† | -1.2 | -0.00094 mg/L | 0.001495 | -0.00094 mg/L | 0.001495 | 159.37% | | |
| B 249.677† | 21.8 | 0.01304 mg/L | 0.001239 | 0.01304 mg/L | 0.001239 | 9.51% | | |
| Ba 233.527† | -2.5 | -0.00035 mg/L | 0.000738 | -0.00035 mg/L | 0.000738 | 208.70% | | |
| Be 313.042† | 33.3 | 0.00012 mg/L | 0.000012 | 0.00012 mg/L | 0.000012 | 10.25% | | |
| Ca 317.933† | -2.1 | -0.00020 mg/L | 0.000744 | -0.00020 mg/L | 0.000744 | 367.89% | | |
| Cd 228.802† | 9.0 | 0.00019 mg/L | 0.000177 | 0.00019 mg/L | 0.000177 | 95.20% | | |
| Co 228.616† | -2.0 | -0.00004 mg/L | 0.000237 | -0.00004 mg/L | 0.000237 | 561.79% | | |
| Cr 267.716† | -1.1 | -0.00024 mg/L | 0.001506 | -0.00024 mg/L | 0.001506 | 630.20% | | |
| Cu 324.752† | 153.8 | 0.00063 mg/L | 0.000208 | 0.00063 mg/L | 0.000208 | 33.05% | | |
| Fe 273.955† | 0.9 | 0.00074 mg/L | 0.001398 | 0.00074 mg/L | 0.001398 | 189.35% | | |
| K 766.490† | 101.7 | 0.03902 mg/L | 0.025602 | 0.03902 mg/L | 0.025602 | 65.61% | | |
| Mg 279.077† | -7.2 | -0.00680 mg/L | 0.003695 | -0.00680 mg/L | 0.003695 | 54.31% | | |
| Mn 257.610† | 9.1 | 0.00023 mg/L | 0.000136 | 0.00023 mg/L | 0.000136 | 58.70% | | |
| Mo 202.031† | 5.8 | 0.00057 mg/L | 0.000289 | 0.00057 mg/L | 0.000289 | 50.45% | | |
| Na 589.592† | 110.7 | 0.01643 mg/L | 0.004825 | 0.01643 mg/L | 0.004825 | 29.36% | | |
| Na 330.237† | 3.2 | 0.1594 mg/L | 1.04490 | 0.1594 mg/L | 1.04490 | 655.38% | | |
| Ni 231.604† | -7.1 | -0.00380 mg/L | 0.002609 | -0.00380 mg/L | 0.002609 | 68.72% | | |
| Pb 220.353† | 19.9 | 0.00284 mg/L | 0.000987 | 0.00284 mg/L | 0.000987 | 34.73% | | |
| Sb 206.836† | -1.1 | -0.00088 mg/L | 0.006235 | -0.00088 mg/L | 0.006235 | 711.30% | | |
| Se 196.026† | 6.5 | 0.00787 mg/L | 0.003990 | 0.00787 mg/L | 0.003990 | 50.68% | | |
| Si 288.158† | -0.9 | -0.00072 mg/L | 0.002215 | -0.00072 mg/L | 0.002215 | 306.85% | | |
| Sn 189.927† | 6.6 | 0.00206 mg/L | 0.000297 | 0.00206 mg/L | 0.000297 | 14.42% | | |
| Sr 421.552† | 55.5 | 0.00012 mg/L | 0.000081 | 0.00012 mg/L | 0.000081 | 66.08% | | |
| Ti 334.903† | -3.2 | -0.00017 mg/L | 0.001040 | -0.00017 mg/L | 0.001040 | 616.00% | | |
| Tl 190.801† | 0.5 | 0.00030 mg/L | 0.003456 | 0.00030 mg/L | 0.003456 | >999.9% | | |
| V 292.402† | 37.8 | 0.00028 mg/L | 0.000105 | 0.00028 mg/L | 0.000105 | 37.25% | | |
| Zn 206.200† | 0.7 | 0.00026 mg/L | 0.000462 | 0.00026 mg/L | 0.000462 | 177.41% | | |

Sequence No.: 3

Sample ID: CRI

222222
5.29

Autosampler Location: 21

Date Collected: 5/29/2012 2:07:24 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: CRI

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1886886.9 | 98.60 % | 2.321 | | | 2.35% |
| ScR 361.383 | 197662.9 | 100.6 % | 0.78 | | | 0.77% |
| Ag 328.068† | 627.7 | 0.00306 mg/L | 0.000282 | 0.00306 mg/L | 0.000282 | 9.22% |
| Al 308.215† | 61.5 | 0.04680 mg/L | 0.003978 | 0.04680 mg/L | 0.003978 | 8.50% |
| As 188.979† | 67.1 | 0.05269 mg/L | 0.001593 | 0.05269 mg/L | 0.001593 | 3.02% |
| B 249.677† | 48.5 | 0.02899 mg/L | 0.002432 | 0.02899 mg/L | 0.002432 | 8.39% |
| Ba 233.527† | 16.9 | 0.00235 mg/L | 0.000043 | 0.00235 mg/L | 0.000043 | 1.83% |
| Be 313.042† | 317.8 | 0.00113 mg/L | 0.000022 | 0.00113 mg/L | 0.000022 | 1.94% |
| Ca 317.933† | 594.3 | 0.05619 mg/L | 0.001055 | 0.05619 mg/L | 0.001055 | 1.88% |
| Cd 228.802† | 110.9 | 0.00218 mg/L | 0.000255 | 0.00218 mg/L | 0.000255 | 11.69% |
| Co 228.616† | 133.2 | 0.00283 mg/L | 0.000144 | 0.00283 mg/L | 0.000144 | 5.11% |
| Cr 267.716† | 14.9 | 0.00337 mg/L | 0.001345 | 0.00337 mg/L | 0.001345 | 39.93% |
| Cu 324.752† | 644.1 | 0.00264 mg/L | 0.000029 | 0.00264 mg/L | 0.000029 | 1.08% |
| Fe 273.955† | 64.4 | 0.05435 mg/L | 0.003242 | 0.05435 mg/L | 0.003242 | 5.97% |
| K 766.490† | 1514.7 | 0.5813 mg/L | 0.04459 | 0.5813 mg/L | 0.04459 | 7.67% |
| Mg 279.077† | 55.4 | 0.05262 mg/L | 0.012425 | 0.05262 mg/L | 0.012425 | 23.61% |
| Mn 257.610† | 50.6 | 0.00128 mg/L | 0.000099 | 0.00128 mg/L | 0.000099 | 7.73% |
| Mo 202.031† | 54.5 | 0.00538 mg/L | 0.000618 | 0.00538 mg/L | 0.000618 | 11.50% |
| Na 589.592† | 3516.2 | 0.5218 mg/L | 0.00549 | 0.5218 mg/L | 0.00549 | 1.05% |
| Na 330.237† | 15.3 | 0.7560 mg/L | 0.55543 | 0.7560 mg/L | 0.55543 | 73.46% |
| Ni 231.604† | 7.0 | 0.00376 mg/L | 0.001343 | 0.00376 mg/L | 0.001343 | 35.69% |
| Pb 220.353† | 159.2 | 0.02272 mg/L | 0.002235 | 0.02272 mg/L | 0.002235 | 9.84% |
| Sb 206.836† | 71.1 | 0.05768 mg/L | 0.001820 | 0.05768 mg/L | 0.001820 | 3.15% |
| Se 196.026† | 44.5 | 0.05343 mg/L | 0.008944 | 0.05343 mg/L | 0.008944 | 16.74% |
| Si 288.158† | 81.4 | 0.06580 mg/L | 0.001397 | 0.06580 mg/L | 0.001397 | 2.12% |
| Sn 189.927† | 34.1 | 0.01076 mg/L | 0.000821 | 0.01076 mg/L | 0.000821 | 7.63% |
| Sr 421.552† | 503.8 | 0.00111 mg/L | 0.000034 | 0.00111 mg/L | 0.000034 | 3.06% |
| Ti 334.903† | 72.3 | 0.00378 mg/L | 0.000577 | 0.00378 mg/L | 0.000577 | 15.25% |
| Tl 190.801† | 83.4 | 0.05177 mg/L | 0.002267 | 0.05177 mg/L | 0.002267 | 4.38% |
| V 292.402† | 388.0 | 0.00293 mg/L | 0.000422 | 0.00293 mg/L | 0.000422 | 14.40% |
| Zn 206.200† | 24.2 | 0.00949 mg/L | 0.000008 | 0.00949 mg/L | 0.000008 | 0.09% |

=====
Analysis Begun

Start Time: 5/29/2012 2:13:56 PM
 Logged In Analyst: metals
 Spectrometer Model: Optima 4300 DV, S/N 077N0060101

Plasma On Time: 5/29/2012 12:14:35 PM
 Technique: ICP Continuous
 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0529.sif
 Batch ID:
 Results Data Set: PE120529
 Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 5/29/2012 2:13:58 PM
 Data Type: Original

=====
Nebulizer Parameters: Calib Blank 1

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

=====
Mean Data: Calib Blank 1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|-------------|--------------------------|----------|--------|--------|-------------|
| ScA 357.253 | 1902099.9 | 8576.99 | 0.45% | 99.39 | % |
| ScR 361.383 | 198718.8 | 366.35 | 0.18% | 101.2 | % |
| Ag 328.068† | -39.6 | 38.15 | 96.46% | [0.00] | mg/L |
| Al 308.215† | -175.3 | 11.27 | 6.43% | [0.00] | mg/L |
| As 188.979† | 45.8 | 0.82 | 1.80% | [0.00] | mg/L |
| B 249.677† | -156.3 | 5.77 | 3.69% | [0.00] | mg/L |
| Ba 233.527† | -66.1 | 0.69 | 1.04% | [0.00] | mg/L |
| Be 313.042† | 784.3 | 2.81 | 0.36% | [0.00] | mg/L |
| Ca 317.933† | -13.9 | 2.51 | 18.00% | [0.00] | mg/L |
| Cd 228.802† | 209.9 | 1.98 | 0.94% | [0.00] | mg/L |
| Co 228.616† | -327.8 | 7.77 | 2.37% | [0.00] | mg/L |
| Cr 267.716† | 110.3 | 1.87 | 1.70% | [0.00] | mg/L |
| Cu 324.752† | 1124.9 | 59.63 | 5.30% | [0.00] | mg/L |
| Fe 273.955† | -42.8 | 1.36 | 3.16% | [0.00] | mg/L |
| K 766.490† | 1861.0 | 22.53 | 1.21% | [0.00] | mg/L |
| Mg 279.077† | -93.1 | 8.02 | 8.61% | [0.00] | mg/L |
| Mn 257.610† | 234.7 | 6.53 | 2.78% | [0.00] | mg/L |
| Mo 202.031† | 76.8 | 4.38 | 5.70% | [0.00] | mg/L |
| Na 589.592† | 2072.9 | 30.25 | 1.46% | [0.00] | mg/L |
| Na 330.237† | -180.1 | 12.23 | 6.79% | [0.00] | mg/L |
| Ni 231.604† | -177.9 | 2.96 | 1.66% | [0.00] | mg/L |
| Pb 220.353† | 119.4 | 7.29 | 6.10% | [0.00] | mg/L |
| Sb 206.836† | -76.6 | 3.16 | 4.12% | [0.00] | mg/L |
| Se 196.026† | 62.4 | 4.75 | 7.61% | [0.00] | mg/L |
| Si 288.158† | 80.6 | 5.69 | 7.07% | [0.00] | mg/L |
| Sn 189.927† | -40.7 | 4.05 | 9.94% | [0.00] | mg/L |
| Sr 421.552† | 425.2 | 35.91 | 8.45% | [0.00] | mg/L |
| Ti 334.903† | 21.6 | 13.22 | 61.35% | [0.00] | mg/L |
| Tl 190.801† | -9.2 | 2.14 | 23.33% | [0.00] | mg/L |
| V 292.402† | 774.4 | 27.04 | 3.49% | [0.00] | mg/L |
| Zn 206.200† | -35.9 | 3.25 | 9.05% | [0.00] | mg/L |

=====
Analysis Begun

Start Time: 5/29/2012 2:18:15 PM

Plasma On Time: 5/29/2012 12:14:35 PM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0529.sif

Batch ID:

Results Data Set: PE120529

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 5/29/2012 2:18:17 PM

Data Type: Original

Dilution: 1X

=====
Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

=====
Mean Data: CV

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|-------|
| ScA 357.253 | 1851422.5 | 96.75 % | 0.316 | | | 0.33% |
| ScR 361.383 | 197782.3 | 100.7 % | 1.15 | | | 1.15% |
| Ag 328.068† | 199918.5 | 0.9734 mg/L | 0.00750 | 0.9734 mg/L | 0.00750 | 0.77% |
| Al 308.215† | 2713.8 | 2.035 mg/L | 0.0083 | 2.035 mg/L | 0.0083 | 0.41% |
| As 188.979† | 2604.0 | 2.044 mg/L | 0.0075 | 2.044 mg/L | 0.0075 | 0.37% |
| B 249.677† | 1610.8 | 0.9610 mg/L | 0.01852 | 0.9610 mg/L | 0.01852 | 1.93% |
| Ba 233.527† | 6849.3 | 0.9512 mg/L | 0.01302 | 0.9512 mg/L | 0.01302 | 1.37% |
| Be 313.042† | 273954.3 | 0.9757 mg/L | 0.00208 | 0.9757 mg/L | 0.00208 | 0.21% |
| Ca 317.933† | 21572.5 | 2.039 mg/L | 0.0229 | 2.039 mg/L | 0.0229 | 1.12% |
| Cd 228.802† | 49118.9 | 1.003 mg/L | 0.0065 | 1.003 mg/L | 0.0065 | 0.65% |
| Co 228.616† | 45405.9 | 0.9643 mg/L | 0.00545 | 0.9643 mg/L | 0.00545 | 0.57% |
| Cr 267.716† | 4219.9 | 0.9557 mg/L | 0.00973 | 0.9557 mg/L | 0.00973 | 1.02% |
| Cu 324.752† | 249431.4 | 1.023 mg/L | 0.0080 | 1.023 mg/L | 0.0080 | 0.78% |
| Fe 273.955† | 2449.4 | 2.066 mg/L | 0.0250 | 2.066 mg/L | 0.0250 | 1.21% |
| K 766.490† | 53696.4 | 20.61 mg/L | 0.096 | 20.61 mg/L | 0.096 | 0.46% |
| Mg 279.077† | 2209.6 | 2.102 mg/L | 0.0281 | 2.102 mg/L | 0.0281 | 1.33% |
| Mn 257.610† | 37606.2 | 0.9512 mg/L | 0.01142 | 0.9512 mg/L | 0.01142 | 1.20% |
| Mo 202.031† | 10348.7 | 1.022 mg/L | 0.0023 | 1.022 mg/L | 0.0023 | 0.23% |
| Na 589.592† | 331287.6 | 49.16 mg/L | 0.102 | 49.16 mg/L | 0.102 | 0.21% |
| Na 330.237† | 1066.7 | 52.73 mg/L | 0.659 | 52.73 mg/L | 0.659 | 1.25% |
| Ni 231.604† | 1809.9 | 0.9694 mg/L | 0.00923 | 0.9694 mg/L | 0.00923 | 0.95% |
| Pb 220.353† | 13965.5 | 1.993 mg/L | 0.0188 | 1.993 mg/L | 0.0188 | 0.95% |
| Sb 206.836† | 2781.1 | 2.250 mg/L | 0.0049 | 2.250 mg/L | 0.0049 | 0.22% |
| Se 196.026† | 1653.1 | 1.985 mg/L | 0.0072 | 1.985 mg/L | 0.0072 | 0.36% |
| Si 288.158† | 2806.7 | 2.275 mg/L | 0.0267 | 2.275 mg/L | 0.0267 | 1.17% |
| Sn 189.927† | 3024.0 | 0.9523 mg/L | 0.00206 | 0.9523 mg/L | 0.00206 | 0.22% |
| Sr 421.552† | 448872.6 | 0.9860 mg/L | 0.00543 | 0.9860 mg/L | 0.00543 | 0.55% |
| Ti 334.903† | 19728.7 | 1.032 mg/L | 0.0035 | 1.032 mg/L | 0.0035 | 0.34% |
| Tl 190.801† | 3194.7 | 1.969 mg/L | 0.0091 | 1.969 mg/L | 0.0091 | 0.46% |
| V 292.402† | 133481.6 | 1.004 mg/L | 0.0112 | 1.004 mg/L | 0.0112 | 1.11% |
| Zn 206.200† | 2582.6 | 1.012 mg/L | 0.0120 | 1.012 mg/L | 0.0120 | 1.18% |

Sequence No.: 2
Sample ID: CB |

Autosampler Location: 1
Date Collected: 5/29/2012 2:24:18 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1878056.2 | 98.14 | % | 0.479 | | | | 0.49% |
| ScR 361.383 | 194571.7 | 99.05 | % | 0.242 | | | | 0.24% |
| Ag 328.068† | 23.9 | 0.00012 | mg/L | 0.000249 | 0.00012 | mg/L | 0.000249 | 214.24% |
| Al 308.215† | -4.3 | -0.00327 | mg/L | 0.002234 | -0.00327 | mg/L | 0.002234 | 68.23% |
| As 188.979† | 1.2 | 0.00091 | mg/L | 0.001002 | 0.00091 | mg/L | 0.001002 | 110.17% |
| B 249.677† | 11.8 | 0.00706 | mg/L | 0.002338 | 0.00706 | mg/L | 0.002338 | 33.13% |
| Ba 233.527† | 0.9 | 0.00013 | mg/L | 0.000167 | 0.00013 | mg/L | 0.000167 | 133.56% |
| Be 313.042† | 15.8 | 0.00006 | mg/L | 0.000014 | 0.00006 | mg/L | 0.000014 | 24.08% |
| Ca 317.933† | -0.1 | -0.00001 | mg/L | 0.001196 | -0.00001 | mg/L | 0.001196 | >999.9% |
| Cd 228.802† | -0.5 | -0.00001 | mg/L | 0.000087 | -0.00001 | mg/L | 0.000087 | 682.23% |
| Co 228.616† | 2.1 | 0.00005 | mg/L | 0.000302 | 0.00005 | mg/L | 0.000302 | 669.11% |
| Cr 267.716† | -3.6 | -0.00080 | mg/L | 0.001348 | -0.00080 | mg/L | 0.001348 | 167.53% |
| Cu 324.752† | 31.0 | 0.00013 | mg/L | 0.000025 | 0.00013 | mg/L | 0.000025 | 19.95% |
| Fe 273.955† | 0.1 | 0.00007 | mg/L | 0.001289 | 0.00007 | mg/L | 0.001289 | >999.9% |
| K 766.490† | 33.0 | 0.01268 | mg/L | 0.038074 | 0.01268 | mg/L | 0.038074 | 300.29% |
| Mg 279.077† | -2.5 | -0.00239 | mg/L | 0.003110 | -0.00239 | mg/L | 0.003110 | 130.25% |
| Mn 257.610† | 4.5 | 0.00011 | mg/L | 0.000040 | 0.00011 | mg/L | 0.000040 | 34.86% |
| Mo 202.031† | 4.2 | 0.00041 | mg/L | 0.000617 | 0.00041 | mg/L | 0.000617 | 150.10% |
| Na 589.592† | 151.1 | 0.02243 | mg/L | 0.006591 | 0.02243 | mg/L | 0.006591 | 29.39% |
| Na 330.237† | 2.1 | 0.1065 | mg/L | 0.35065 | 0.1065 | mg/L | 0.35065 | 329.24% |
| Ni 231.604† | -1.8 | -0.00099 | mg/L | 0.002636 | -0.00099 | mg/L | 0.002636 | 267.21% |
| Pb 220.353† | 0.3 | 0.00005 | mg/L | 0.000559 | 0.00005 | mg/L | 0.000559 | >999.9% |
| Sb 206.836† | -4.3 | -0.00346 | mg/L | 0.002859 | -0.00346 | mg/L | 0.002859 | 82.69% |
| Se 196.026† | -0.7 | -0.00088 | mg/L | 0.002642 | -0.00088 | mg/L | 0.002642 | 300.57% |
| Si 288.158† | 4.0 | 0.00324 | mg/L | 0.004432 | 0.00324 | mg/L | 0.004432 | 136.63% |
| Sn 189.927† | 5.8 | 0.00182 | mg/L | 0.000757 | 0.00182 | mg/L | 0.000757 | 41.56% |
| Sr 421.552† | 12.1 | 0.00003 | mg/L | 0.000058 | 0.00003 | mg/L | 0.000058 | 215.96% |
| Ti 334.903† | 3.3 | 0.00017 | mg/L | 0.001037 | 0.00017 | mg/L | 0.001037 | 602.38% |
| Tl 190.801† | 1.7 | 0.00103 | mg/L | 0.001477 | 0.00103 | mg/L | 0.001477 | 143.98% |
| V 292.402† | -2.4 | -0.00002 | mg/L | 0.000082 | -0.00002 | mg/L | 0.000082 | 387.04% |
| Zn 206.200† | -0.3 | -0.00010 | mg/L | 0.000992 | -0.00010 | mg/L | 0.000992 | 948.26% |

Sequence No.: 3
Sample ID: CRI

Autosampler Location: 21
Date Collected: 5/29/2012 2:30:16 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: CRI

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|---------|-----------------------|----------|---------|-------|----------|--------|
| | Intensity | Conc. % | | | Conc. | Units | | |
| ScA 357.253 | 1882997.7 | 98.40 | % | 0.873 | | | | 0.89% |
| ScR 361.383 | 196910.7 | 100.2 | % | 2.22 | | | | 2.21% |
| Ag 328.068† | 624.1 | 0.00304 | mg/L | 0.000153 | 0.00304 | mg/L | 0.000153 | 5.03% |
| Al 308.215† | 72.2 | 0.05501 | mg/L | 0.009230 | 0.05501 | mg/L | 0.009230 | 16.78% |
| As 188.979† | 68.3 | 0.05359 | mg/L | 0.001829 | 0.05359 | mg/L | 0.001829 | 3.41% |
| B 249.677† | 38.2 | 0.02282 | mg/L | 0.002446 | 0.02282 | mg/L | 0.002446 | 10.72% |
| Ba 233.527† | 22.3 | 0.00310 | mg/L | 0.000683 | 0.00310 | mg/L | 0.000683 | 22.04% |
| Be 313.042† | 284.3 | 0.00101 | mg/L | 0.000115 | 0.00101 | mg/L | 0.000115 | 11.42% |
| Ca 317.933† | 578.4 | 0.05468 | mg/L | 0.003969 | 0.05468 | mg/L | 0.003969 | 7.26% |
| Cd 228.802† | 99.2 | 0.00194 | mg/L | 0.000163 | 0.00194 | mg/L | 0.000163 | 8.40% |
| Co 228.616† | 144.0 | 0.00305 | mg/L | 0.000049 | 0.00305 | mg/L | 0.000049 | 1.62% |
| Cr 267.716† | 20.8 | 0.00472 | mg/L | 0.001610 | 0.00472 | mg/L | 0.001610 | 34.12% |
| Cu 324.752† | 513.7 | 0.00211 | mg/L | 0.000197 | 0.00211 | mg/L | 0.000197 | 9.34% |
| Fe 273.955† | 58.5 | 0.04936 | mg/L | 0.000641 | 0.04936 | mg/L | 0.000641 | 1.30% |
| K 766.490† | 1427.1 | 0.5477 | mg/L | 0.01242 | 0.5477 | mg/L | 0.01242 | 2.27% |
| Mg 279.077† | 54.2 | 0.05147 | mg/L | 0.003225 | 0.05147 | mg/L | 0.003225 | 6.26% |
| Mn 257.610† | 50.7 | 0.00129 | mg/L | 0.000264 | 0.00129 | mg/L | 0.000264 | 20.49% |
| Mo 202.031† | 55.8 | 0.00551 | mg/L | 0.000337 | 0.00551 | mg/L | 0.000337 | 6.12% |
| Na 589.592† | 3554.9 | 0.5276 | mg/L | 0.02097 | 0.5276 | mg/L | 0.02097 | 3.98% |
| Na 330.237† | 25.8 | 1.278 | mg/L | 0.7909 | 1.278 | mg/L | 0.7909 | 61.87% |
| Ni 231.604† | 20.3 | 0.01085 | mg/L | 0.001186 | 0.01085 | mg/L | 0.001186 | 10.93% |
| Pb 220.353† | 140.9 | 0.02011 | mg/L | 0.000256 | 0.02011 | mg/L | 0.000256 | 1.27% |
| Sb 206.836† | 64.5 | 0.05228 | mg/L | 0.003177 | 0.05228 | mg/L | 0.003177 | 6.08% |
| Se 196.026† | 44.1 | 0.05292 | mg/L | 0.002370 | 0.05292 | mg/L | 0.002370 | 4.48% |
| Si 288.158† | 82.7 | 0.06682 | mg/L | 0.006109 | 0.06682 | mg/L | 0.006109 | 9.14% |
| Sn 189.927† | 30.0 | 0.00947 | mg/L | 0.000702 | 0.00947 | mg/L | 0.000702 | 7.41% |
| Sr 421.552† | 494.8 | 0.00109 | mg/L | 0.000114 | 0.00109 | mg/L | 0.000114 | 10.53% |
| Ti 334.903† | 100.5 | 0.00526 | mg/L | 0.000733 | 0.00526 | mg/L | 0.000733 | 13.95% |
| Tl 190.801† | 83.5 | 0.05185 | mg/L | 0.000655 | 0.05185 | mg/L | 0.000655 | 1.26% |
| V 292.402† | 422.5 | 0.00320 | mg/L | 0.000265 | 0.00320 | mg/L | 0.000265 | 8.29% |
| Zn 206.200† | 24.4 | 0.00955 | mg/L | 0.001163 | 0.00955 | mg/L | 0.001163 | 12.18% |

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 5/29/2012 2:36:16 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 180.0 kPa | 0.55 L/min |

Mean Data: ICSA

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------------|----------|-------------|------|----------|---------|
| | Intensity | | | | Conc. Units | | | |
| ScA 357.253 | 1778406.4 | | 92.93 % ✓ | 0.371 | | | | 0.40% |
| ScR 361.383 | 191271.3 | | 97.37 % | 0.922 | | | | 0.95% |
| Ag 328.068† | -1282.2 | 0.00206 | mg/L | 0.000420 | 0.00206 | mg/L | 0.000420 | 20.38% |
| Al 308.215† | 276439.6 | 211.3 | mg/L ✓ | 0.58 | 211.3 | mg/L | 0.58 | 0.27% |
| As 188.979† | 45.8 | -0.00282 | mg/L | 0.004446 | -0.00282 | mg/L | 0.004446 | 157.89% |
| B 249.677† | -22.7 | -0.01357 | mg/L | 0.001808 | -0.01357 | mg/L | 0.001808 | 13.33% |
| Ba 233.527† | 65.7 | 0.00181 | mg/L | 0.000891 | 0.00181 | mg/L | 0.000891 | 49.11% |
| Be 313.042† | 22.5 | 0.00003 | mg/L | 0.000016 | 0.00003 | mg/L | 0.000016 | 56.16% |
| Ca 317.933† | 1068592.4 | 101.0 | mg/L ✓ | 0.19 | 101.0 | mg/L | 0.19 | 0.19% |
| Cd 228.802† | 54.4 | 0.00105 | mg/L | 0.000100 | 0.00105 | mg/L | 0.000100 | 9.57% |
| Co 228.616† | 41.4 | 0.00088 | mg/L | 0.000177 | 0.00088 | mg/L | 0.000177 | 20.24% |
| Cr 267.716† | 13.4 | 0.00210 | mg/L | 0.001596 | 0.00210 | mg/L | 0.001596 | 76.09% |
| Cu 324.752† | -3770.7 | 0.00259 | mg/L | 0.000066 | 0.00259 | mg/L | 0.000066 | 2.53% |
| Fe 273.955† | 243581.5 | 205.6 | mg/L ✓ | 1.11 | 205.6 | mg/L | 1.11 | 0.54% |
| K 766.490† | 2.5 | 0.00095 | mg/L | 0.002861 | 0.00095 | mg/L | 0.002861 | 302.17% |
| Mg 279.077† | 108882.9 | 103.3 | mg/L ✓ | 1.43 | 103.3 | mg/L | 1.43 | 1.39% |
| Mn 257.610† | 74.3 | 0.00007 | mg/L | 0.000543 | 0.00007 | mg/L | 0.000543 | 752.33% |
| Mo 202.031† | 172.5 | 0.00733 | mg/L | 0.000772 | 0.00733 | mg/L | 0.000772 | 10.54% |
| Na 589.592† | 338.7 | 0.05027 | mg/L | 0.004716 | 0.05027 | mg/L | 0.004716 | 9.38% |
| Na 330.237† | 16.0 | 0.3438 | mg/L | 0.13836 | 0.3438 | mg/L | 0.13836 | 40.25% |
| Ni 231.604† | -21.5 | 0.00076 | mg/L | 0.004381 | 0.00076 | mg/L | 0.004381 | 577.36% |
| Pb 220.353† | -437.7 | 0.00478 | mg/L | 0.001175 | 0.00478 | mg/L | 0.001175 | 24.57% |
| Sb 206.836† | -122.3 | -0.03214 | mg/L | 0.000679 | -0.03214 | mg/L | 0.000679 | 2.11% |
| Se 196.026† | 69.4 | -0.00398 | mg/L | 0.004802 | -0.00398 | mg/L | 0.004802 | 120.74% |
| Si 288.158† | -38.1 | -0.01194 | mg/L | 0.003419 | -0.01194 | mg/L | 0.003419 | 28.63% |
| Sn 189.927† | -104.2 | -0.02725 | mg/L | 0.001419 | -0.02725 | mg/L | 0.001419 | 5.21% |
| Sr 421.552† | 4698.3 | 0.01032 | mg/L cont. | 0.000120 | 0.01032 | mg/L | 0.000120 | 1.17% |
| Ti 334.903† | 76.3 | 0.00068 | mg/L | 0.002072 | 0.00068 | mg/L | 0.002072 | 306.86% |
| Tl 190.801† | -49.9 | -0.00877 | mg/L | 0.002725 | -0.00877 | mg/L | 0.002725 | 31.08% |
| V 292.402† | 2835.6 | -0.00559 | mg/L | 0.000483 | -0.00559 | mg/L | 0.000483 | 8.65% |
| Zn 206.200† | -14.2 | -0.00183 | mg/L | 0.001063 | -0.00183 | mg/L | 0.001063 | 58.05% |

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 5/29/2012 2:42:18 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: ICSAB

| Analyte | Mean Corrected | | | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | Calib. Units | | Conc. | Units | | |
| ScA 357.253 | 1782383.7 | 93.14 | % | 0.411 | | | | 0.44% |
| ScR 361.383 | 195693.8 | 99.62 | % | 1.030 | | | | 1.03% |
| Ag 328.068† | 211075.6 | 1.036 | mg/L | 0.0043 | 1.036 | mg/L | 0.0043 | 0.41% |
| Al 308.215† | 270845.9 | 207.0 | mg/L | 1.20 | 207.0 | mg/L | 1.20 | 0.58% |
| As 188.979† | 1380.8 | 1.046 | mg/L | 0.0148 | 1.046 | mg/L | 0.0148 | 1.42% |
| B 249.677† | -26.5 | -0.01896 | mg/L | 0.001263 | -0.01896 | mg/L | 0.001263 | 6.66% |
| Ba 233.527† | 6939.1 | 0.9565 | mg/L | 0.01345 | 0.9565 | mg/L | 0.01345 | 1.41% |
| Be 313.042† | 283700.9 | 1.010 | mg/L | 0.0047 | 1.010 | mg/L | 0.0047 | 0.46% |
| Ca 317.933† | 1080936.3 | 102.2 | mg/L | 0.47 | 102.2 | mg/L | 0.47 | 0.46% |
| Cd 228.802† | 49030.7 | 1.003 | mg/L | 0.0021 | 1.003 | mg/L | 0.0021 | 0.21% |
| Co 228.616† | 43517.3 | 0.9256 | mg/L | 0.00086 | 0.9256 | mg/L | 0.00086 | 0.09% |
| Cr 267.716† | 4256.1 | 0.9631 | mg/L | 0.01216 | 0.9631 | mg/L | 0.01216 | 1.26% |
| Cu 324.752† | 249157.3 | 1.040 | mg/L | 0.0026 | 1.040 | mg/L | 0.0026 | 0.25% |
| Fe 273.955† | 241595.3 | 203.9 | mg/L | 1.31 | 203.9 | mg/L | 1.31 | 0.64% |
| K 766.490† | 19.2 | 0.00736 | mg/L | 0.012161 | 0.00736 | mg/L | 0.012161 | 165.33% |
| Mg 279.077† | 110256.9 | 104.6 | mg/L | 0.48 | 104.6 | mg/L | 0.48 | 0.46% |
| Mn 257.610† | 38101.0 | 0.9617 | mg/L | 0.00494 | 0.9617 | mg/L | 0.00494 | 0.51% |
| Mo 202.031† | 182.3 | 0.00816 | mg/L | 0.001111 | 0.00816 | mg/L | 0.001111 | 13.62% |
| Na 589.592† | 400.4 | 0.05942 | mg/L | 0.003853 | 0.05942 | mg/L | 0.003853 | 6.48% |
| Na 330.237† | 21.7 | 0.3034 | mg/L | 0.13333 | 0.3034 | mg/L | 0.13333 | 43.95% |
| Ni 231.604† | 1724.0 | 0.9353 | mg/L | 0.00926 | 0.9353 | mg/L | 0.00926 | 0.99% |
| Pb 220.353† | 6299.7 | 0.9650 | mg/L | 0.00848 | 0.9650 | mg/L | 0.00848 | 0.88% |
| Sb 206.836† | 1207.3 | 1.032 | mg/L | 0.0027 | 1.032 | mg/L | 0.0027 | 0.26% |
| Se 196.026† | 912.9 | 1.010 | mg/L | 0.0098 | 1.010 | mg/L | 0.0098 | 0.97% |
| Si 288.158† | -41.1 | -0.00959 | mg/L | 0.010016 | -0.00959 | mg/L | 0.010016 | 104.47% |
| Sn 189.927† | -112.5 | -0.02934 | mg/L | 0.000657 | -0.02934 | mg/L | 0.000657 | 2.24% |
| Sr 421.552† | 5079.4 | 0.01116 | mg/L | 0.000063 | 0.01116 | mg/L | 0.000063 | 0.56% |
| Ti 334.903† | 67.0 | -0.00009 | mg/L | 0.000732 | -0.00009 | mg/L | 0.000732 | 847.54% |
| Tl 190.801† | 1506.5 | 0.9419 | mg/L | 0.00928 | 0.9419 | mg/L | 0.00928 | 0.98% |
| V 292.402† | 138039.7 | 1.006 | mg/L | 0.0057 | 1.006 | mg/L | 0.0057 | 0.57% |
| Zn 206.200† | 2352.6 | 0.9254 | mg/L | 0.01410 | 0.9254 | mg/L | 0.01410 | 1.52% |

Sequence No.: 6

Sample ID: CV *2*

Autosampler Location: 7

Date Collected: 5/29/2012 2:49:18 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: CV

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD | |
|-------------|----------------|--------|--------------|----------|--------|-------|---------|----------|
| | Intensity | Conc. | | | Conc. | Units | | Std.Dev. |
| ScA 357.253 | 1848302.0 | 96.58 | % | 1.077 | | | 1.12% | |
| ScR 361.383 | 195384.7 | 99.46 | % | 0.458 | | | 0.46% | |
| Ag 328.068† | 199818.1 | 0.9729 | mg/L | 0.01165 | 0.9729 | mg/L | 0.01165 | 1.20% |
| Al 308.215† | 2763.3 | 2.072 | mg/L | 0.0175 | 2.072 | mg/L | 0.0175 | 0.85% |
| As 188.979† | 2600.6 | 2.041 | mg/L | 0.0235 | 2.041 | mg/L | 0.0235 | 1.15% |
| B 249.677† | 1624.6 | 0.9693 | mg/L | 0.01610 | 0.9693 | mg/L | 0.01610 | 1.66% |
| Ba 233.527† | 6977.6 | 0.9690 | mg/L | 0.00912 | 0.9690 | mg/L | 0.00912 | 0.94% |
| Be 313.042† | 272207.2 | 0.9694 | mg/L | 0.00268 | 0.9694 | mg/L | 0.00268 | 0.28% |
| Ca 317.933† | 21770.7 | 2.058 | mg/L | 0.0175 | 2.058 | mg/L | 0.0175 | 0.85% |
| Cd 228.802† | 49222.4 | 1.006 | mg/L | 0.0090 | 1.006 | mg/L | 0.0090 | 0.90% |
| Co 228.616† | 45788.4 | 0.9724 | mg/L | 0.00818 | 0.9724 | mg/L | 0.00818 | 0.84% |
| Cr 267.716† | 4280.5 | 0.9694 | mg/L | 0.00705 | 0.9694 | mg/L | 0.00705 | 0.73% |
| Cu 324.752† | 250319.5 | 1.026 | mg/L | 0.0084 | 1.026 | mg/L | 0.0084 | 0.82% |
| Fe 273.955† | 2500.0 | 2.109 | mg/L | 0.0217 | 2.109 | mg/L | 0.0217 | 1.03% |
| K 766.490† | 54069.9 | 20.75 | mg/L | 0.082 | 20.75 | mg/L | 0.082 | 0.39% |
| Mg 279.077† | 2243.6 | 2.135 | mg/L | 0.0136 | 2.135 | mg/L | 0.0136 | 0.64% |
| Mn 257.610† | 38316.3 | 0.9692 | mg/L | 0.00221 | 0.9692 | mg/L | 0.00221 | 0.23% |
| Mo 202.031† | 10350.7 | 1.023 | mg/L | 0.0109 | 1.023 | mg/L | 0.0109 | 1.06% |
| Na 589.592† | 333682.0 | 49.52 | mg/L | 0.156 | 49.52 | mg/L | 0.156 | 0.32% |
| Na 330.237† | 1067.7 | 52.78 | mg/L | 0.474 | 52.78 | mg/L | 0.474 | 0.90% |
| Ni 231.604† | 1844.4 | 0.9879 | mg/L | 0.01071 | 0.9879 | mg/L | 0.01071 | 1.08% |
| Pb 220.353† | 14053.8 | 2.005 | mg/L | 0.0217 | 2.005 | mg/L | 0.0217 | 1.08% |
| Sb 206.836† | 2787.0 | 2.255 | mg/L | 0.0208 | 2.255 | mg/L | 0.0208 | 0.92% |
| Se 196.026† | 1656.7 | 1.989 | mg/L | 0.0258 | 1.989 | mg/L | 0.0258 | 1.30% |
| Si 288.158† | 2870.7 | 2.327 | mg/L | 0.0339 | 2.327 | mg/L | 0.0339 | 1.46% |
| Sn 189.927† | 3012.0 | 0.9486 | mg/L | 0.01095 | 0.9486 | mg/L | 0.01095 | 1.15% |
| Sr 421.552† | 452747.8 | 0.9945 | mg/L | 0.00210 | 0.9945 | mg/L | 0.00210 | 0.21% |
| Ti 334.903† | 19817.9 | 1.037 | mg/L | 0.0023 | 1.037 | mg/L | 0.0023 | 0.23% |
| Tl 190.801† | 3201.9 | 1.974 | mg/L | 0.0183 | 1.974 | mg/L | 0.0183 | 0.93% |
| V 292.402† | 133637.4 | 1.005 | mg/L | 0.0079 | 1.005 | mg/L | 0.0079 | 0.79% |
| Zn 206.200† | 2635.2 | 1.032 | mg/L | 0.0109 | 1.032 | mg/L | 0.0109 | 1.06% |

Sequence No.: 7

Sample ID: CB 2

Autosampler Location: 1

Date Collected: 5/29/2012 2:55:19 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1881790.9 | 98.33 | % | 0.365 | | | | 0.37% |
| ScR 361.383 | 195003.1 | 99.27 | % | 0.582 | | | | 0.59% |
| Ag 328.068† | 78.6 | 0.00038 | mg/L | 0.000110 | 0.00038 | mg/L | 0.000110 | 28.70% |
| Al 308.215† | 6.1 | 0.00468 | mg/L | 0.005982 | 0.00468 | mg/L | 0.005982 | 127.93% |
| As 188.979† | -0.2 | -0.00013 | mg/L | 0.001251 | -0.00013 | mg/L | 0.001251 | 949.99% |
| B 249.677† | 11.1 | 0.00666 | mg/L | 0.000705 | 0.00666 | mg/L | 0.000705 | 10.59% |
| Ba 233.527† | 6.6 | 0.00091 | mg/L | 0.000726 | 0.00091 | mg/L | 0.000726 | 79.50% |
| Be 313.042† | 29.4 | 0.00011 | mg/L | 0.000030 | 0.00011 | mg/L | 0.000030 | 28.87% |
| Ca 317.933† | 10.8 | 0.00102 | mg/L | 0.001831 | 0.00102 | mg/L | 0.001831 | 179.47% |
| Cd 228.802† | -4.1 | -0.00008 | mg/L | 0.000038 | -0.00008 | mg/L | 0.000038 | 45.51% |
| Co 228.616† | 3.6 | 0.00008 | mg/L | 0.000147 | 0.00008 | mg/L | 0.000147 | 195.42% |
| Cr 267.716† | 2.7 | 0.00062 | mg/L | 0.001359 | 0.00062 | mg/L | 0.001359 | 220.16% |
| Cu 324.752† | 97.3 | 0.00040 | mg/L | 0.000037 | 0.00040 | mg/L | 0.000037 | 9.16% |
| Fe 273.955† | 0.2 | 0.00019 | mg/L | 0.004278 | 0.00019 | mg/L | 0.004278 | >999.9% |
| K 766.490† | 82.2 | 0.03156 | mg/L | 0.016320 | 0.03156 | mg/L | 0.016320 | 51.71% |
| Mg 279.077† | -4.4 | -0.00422 | mg/L | 0.003991 | -0.00422 | mg/L | 0.003991 | 94.67% |
| Mn 257.610† | 4.6 | 0.00012 | mg/L | 0.000199 | 0.00012 | mg/L | 0.000199 | 171.58% |
| Mo 202.031† | 4.2 | 0.00042 | mg/L | 0.000153 | 0.00042 | mg/L | 0.000153 | 36.37% |
| Na 589.592† | 189.2 | 0.02808 | mg/L | 0.010504 | 0.02808 | mg/L | 0.010504 | 37.41% |
| Na 330.237† | 10.4 | 0.5152 | mg/L | 0.42580 | 0.5152 | mg/L | 0.42580 | 82.64% |
| Ni 231.604† | -2.4 | -0.00127 | mg/L | 0.001887 | -0.00127 | mg/L | 0.001887 | 148.51% |
| Pb 220.353† | 3.3 | 0.00048 | mg/L | 0.000353 | 0.00048 | mg/L | 0.000353 | 73.99% |
| Sb 206.836† | -5.0 | -0.00406 | mg/L | 0.002422 | -0.00406 | mg/L | 0.002422 | 59.67% |
| Se 196.026† | 0.5 | 0.00061 | mg/L | 0.004342 | 0.00061 | mg/L | 0.004342 | 711.43% |
| Si 288.158† | -1.7 | -0.00136 | mg/L | 0.001759 | -0.00136 | mg/L | 0.001759 | 129.27% |
| Sn 189.927† | 8.3 | 0.00261 | mg/L | 0.001226 | 0.00261 | mg/L | 0.001226 | 47.05% |
| Sr 421.552† | 36.2 | 0.00008 | mg/L | 0.000112 | 0.00008 | mg/L | 0.000112 | 141.48% |
| Ti 334.903† | 12.0 | 0.00063 | mg/L | 0.001070 | 0.00063 | mg/L | 0.001070 | 170.38% |
| Tl 190.801† | -0.4 | -0.00027 | mg/L | 0.002961 | -0.00027 | mg/L | 0.002961 | >999.9% |
| V 292.402† | -8.7 | -0.00006 | mg/L | 0.000213 | -0.00006 | mg/L | 0.000213 | 365.53% |
| Zn 206.200† | -0.1 | -0.00003 | mg/L | 0.000624 | -0.00003 | mg/L | 0.000624 | >999.9% |

Sequence No.: 8
Sample ID: DI CHECK

Autosampler Location: 24
Date Collected: 5/29/2012 3:01:17 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: DI CHECK

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: DI CHECK

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|-----------------------|----------|-------------|----------|------------------|
| | Intensity | | | | Conc. Units | Std.Dev. | |
| ScA 357.253 | 1952861.9 | | 102.0 % | 0.36 | | | 0.35% |
| ScR 361.383 | 202225.4 | | 102.9 % | 0.90 | | | 0.87% |
| Ag 328.068† | 22.7 | 0.00011 | mg/L | 0.000098 | 0.00011 | mg/L | 0.000098 89.02% |
| Al 308.215† | 9.1 | 0.00694 | mg/L | 0.006899 | 0.00694 | mg/L | 0.006899 99.45% |
| As 188.979† | -2.5 | -0.00193 | mg/L | 0.001939 | -0.00193 | mg/L | 0.001939 100.50% |
| B 249.677† | 6.3 | 0.00376 | mg/L | 0.002496 | 0.00376 | mg/L | 0.002496 66.35% |
| Ba 233.527† | 5.6 | 0.00077 | mg/L | 0.000393 | 0.00077 | mg/L | 0.000393 50.87% |
| Be 313.042† | -17.5 | -0.00006 | mg/L | 0.000077 | -0.00006 | mg/L | 0.000077 124.19% |
| Ca 317.933† | -7.1 | -0.00067 | mg/L | 0.001675 | -0.00067 | mg/L | 0.001675 248.92% |
| Cd 228.802† | -1.6 | -0.00003 | mg/L | 0.000080 | -0.00003 | mg/L | 0.000080 299.16% |
| Co 228.616† | 18.6 | 0.00039 | mg/L | 0.000098 | 0.00039 | mg/L | 0.000098 24.97% |
| Cr 267.716† | -8.6 | -0.00194 | mg/L | 0.002417 | -0.00194 | mg/L | 0.002417 124.73% |
| Cu 324.752† | 32.1 | 0.00013 | mg/L | 0.000034 | 0.00013 | mg/L | 0.000034 25.83% |
| Fe 273.955† | 0.9 | 0.00076 | mg/L | 0.002787 | 0.00076 | mg/L | 0.002787 368.90% |
| K 766.490† | -23.6 | -0.00907 | mg/L | 0.032726 | -0.00907 | mg/L | 0.032726 360.95% |
| Mg 279.077† | 0.3 | 0.00029 | mg/L | 0.003585 | 0.00029 | mg/L | 0.003585 >999.9% |
| Mn 257.610† | -13.0 | -0.00033 | mg/L | 0.000050 | -0.00033 | mg/L | 0.000050 15.27% |
| Mo 202.031† | -4.0 | -0.00040 | mg/L | 0.000585 | -0.00040 | mg/L | 0.000585 147.89% |
| Na 589.592† | 396.3 | 0.05881 | mg/L | 0.020697 | 0.05881 | mg/L | 0.020697 35.19% |
| Na 330.237† | 1.6 | 0.07981 | mg/L | 0.227852 | 0.07981 | mg/L | 0.227852 285.48% |
| Ni 231.604† | 13.2 | 0.00708 | mg/L | 0.003188 | 0.00708 | mg/L | 0.003188 45.00% |
| Pb 220.353† | -10.5 | -0.00150 | mg/L | 0.000020 | -0.00150 | mg/L | 0.000020 1.37% |
| Sb 206.836† | 0.6 | 0.00050 | mg/L | 0.000775 | 0.00050 | mg/L | 0.000775 154.96% |
| Se 196.026† | -0.8 | -0.00100 | mg/L | 0.006536 | -0.00100 | mg/L | 0.006536 651.89% |
| Si 288.158† | -10.9 | -0.00884 | mg/L | 0.001802 | -0.00884 | mg/L | 0.001802 20.38% |
| Sn 189.927† | 0.8 | 0.00024 | mg/L | 0.001117 | 0.00024 | mg/L | 0.001117 460.38% |
| Sr 421.552† | -4.5 | -0.00001 | mg/L | 0.000086 | -0.00001 | mg/L | 0.000086 880.73% |
| Ti 334.903† | 26.4 | 0.00139 | mg/L | 0.001582 | 0.00139 | mg/L | 0.001582 114.15% |
| Tl 190.801† | -2.2 | -0.00137 | mg/L | 0.004004 | -0.00137 | mg/L | 0.004004 291.26% |
| V 292.402† | -35.6 | -0.00028 | mg/L | 0.000249 | -0.00028 | mg/L | 0.000249 88.32% |
| Zn 206.200† | 2.0 | 0.00077 | mg/L | 0.000842 | 0.00077 | mg/L | 0.000842 109.00% |

Sequence No.: 9
Sample ID: UU52 MB1 SWC

Autosampler Location: 25
Date Collected: 5/29/2012 3:07:17 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 MB1 SWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: UU52 MB1 SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
| | Intensity | Conc. | | | Conc. | Units | |
| ScA 357.253 | 1896431.5 | 99.10 | % | 0.274 | | | 0.28% |
| ScR 361.383 | 197778.3 | 100.7 | % | 0.95 | | | 0.95% |
| Ag 328.068† | 34.1 | 0.00017 | mg/L | 0.000060 | 0.00033 | mg/L | 0.000119 35.88% |
| Al 308.215† | 16.4 | 0.01255 | mg/L | 0.003679 | 0.02510 | mg/L | 0.007358 29.32% |
| As 188.979† | 4.1 | 0.00318 | mg/L | 0.001539 | 0.00636 | mg/L | 0.003077 48.40% |
| B 249.677† | -0.7 | -0.00042 | mg/L | 0.001316 | -0.00083 | mg/L | 0.002632 316.08% |
| Ba 233.527† | 220.2 | 0.03060 | mg/L | 0.000855 | 0.06120 | mg/L | 0.001710 2.79% |
| Be 313.042† | 16.9 | 0.00006 | mg/L | 0.000032 | 0.00012 | mg/L | 0.000064 53.19% |
| Ca 317.933† | 197.7 | 0.01869 | mg/L | 0.001466 | 0.03738 | mg/L | 0.002932 7.84% |
| Cd 228.802† | 4.2 | 0.00008 | mg/L | 0.000076 | 0.00016 | mg/L | 0.000152 95.57% |
| Co 228.616† | 5.7 | 0.00011 | mg/L | 0.000077 | 0.00022 | mg/L | 0.000154 70.23% |
| Cr 267.716† | -4.9 | -0.00111 | mg/L | 0.000613 | -0.00221 | mg/L | 0.001226 55.42% |
| Cu 324.752† | 102.4 | 0.00042 | mg/L | 0.000165 | 0.00084 | mg/L | 0.000330 39.24% |
| Fe 273.955† | 12.5 | 0.01054 | mg/L | 0.001550 | 0.02109 | mg/L | 0.003099 14.70% |
| K 766.490† | 40.2 | 0.01543 | mg/L | 0.003913 | 0.03086 | mg/L | 0.007826 25.36% |
| Mg 279.077† | 7.2 | 0.00685 | mg/L | 0.001976 | 0.01369 | mg/L | 0.003952 28.87% |
| Mn 257.610† | 5.8 | 0.00015 | mg/L | 0.000013 | 0.00029 | mg/L | 0.000027 9.23% |
| Mo 202.031† | 7.0 | 0.00069 | mg/L | 0.000236 | 0.00137 | mg/L | 0.000471 34.30% |
| Na 589.592† | 190.3 | 0.02824 | mg/L | 0.007441 | 0.05649 | mg/L | 0.014881 26.34% |
| Na 330.237† | 0.0 | -0.00007 | mg/L | 0.532435 | -0.00014 | mg/L | 1.064869 >999.9% |
| Ni 231.604† | 0.0 | 0.00002 | mg/L | 0.002553 | 0.00005 | mg/L | 0.005106 >999.9% |
| Pb 220.353† | -3.2 | -0.00045 | mg/L | 0.000515 | -0.00091 | mg/L | 0.001030 113.78% |
| Sb 206.836† | -3.7 | -0.00301 | mg/L | 0.002998 | -0.00601 | mg/L | 0.005996 99.74% |
| Se 196.026† | 2.5 | 0.00298 | mg/L | 0.004892 | 0.00596 | mg/L | 0.009783 164.28% |
| Si 288.158† | 9.1 | 0.00733 | mg/L | 0.001742 | 0.01465 | mg/L | 0.003485 23.78% |
| Sn 189.927† | -1.8 | -0.00056 | mg/L | 0.000494 | -0.00113 | mg/L | 0.000989 87.68% |
| Sr 421.552† | 224.4 | 0.00049 | mg/L | 0.000045 | 0.00099 | mg/L | 0.000090 9.15% |
| Ti 334.903† | 1.3 | 0.00007 | mg/L | 0.000843 | 0.00013 | mg/L | 0.001686 >999.9% |
| Tl 190.801† | -1.9 | -0.00116 | mg/L | 0.002268 | -0.00232 | mg/L | 0.004536 195.82% |
| V 292.402† | -8.9 | -0.00007 | mg/L | 0.000286 | -0.00014 | mg/L | 0.000572 401.73% |
| Zn 206.200† | 6.0 | 0.00236 | mg/L | 0.001201 | 0.00472 | mg/L | 0.002402 50.87% |

Sequence No.: 10
Sample ID: QC21

Autosampler Location: 26
Date Collected: 5/29/2012 3:13:16 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: QC21

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: QC21

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1855793.7 | 96.97 | % | 0.422 | | | | 0.43% |
| ScR 361.383 | 195030.5 | 99.28 | % | 0.342 | | | | 0.34% |
| Ag 328.068† | 25.7 | 0.00014 | mg/L | 0.000102 | 0.00014 | mg/L | 0.000102 | 75.25% |
| Al 308.215† | 107.1 | 0.00330 | mg/L | 0.004743 | 0.00330 | mg/L | 0.004743 | 143.63% |
| As 188.979† | 2624.7 | 2.060 | mg/L | 0.0184 | 2.060 | mg/L | 0.0184 | 0.90% |
| B 249.677† | 2.3 | -0.00235 | mg/L | 0.002397 | -0.00235 | mg/L | 0.002397 | 101.97% |
| Ba 233.527† | 4.4 | -0.00016 | mg/L | 0.000801 | -0.00016 | mg/L | 0.000801 | 508.57% |
| Be 313.042† | 563011.9 | 2.005 | mg/L | 0.0048 | 2.005 | mg/L | 0.0048 | 0.24% |
| Ca 317.933† | 23128.8 | 2.187 | mg/L | 0.0009 | 2.187 | mg/L | 0.0009 | 0.04% |
| Cd 228.802† | 96408.1 | 1.973 | mg/L | 0.0080 | 1.973 | mg/L | 0.0080 | 0.40% |
| Co 228.616† | 94095.5 | 1.999 | mg/L | 0.0153 | 1.999 | mg/L | 0.0153 | 0.77% |
| Cr 267.716† | 8791.7 | 1.991 | mg/L | 0.0101 | 1.991 | mg/L | 0.0101 | 0.51% |
| Cu 324.752† | 489804.1 | 2.008 | mg/L | 0.0058 | 2.008 | mg/L | 0.0058 | 0.29% |
| Fe 273.955† | 2463.9 | 2.078 | mg/L | 0.0152 | 2.078 | mg/L | 0.0152 | 0.73% |
| K 766.490† | 23.4 | 0.00899 | mg/L | 0.016731 | 0.00899 | mg/L | 0.016731 | 186.01% |
| Mg 279.077† | 2288.4 | 2.181 | mg/L | 0.0067 | 2.181 | mg/L | 0.0067 | 0.31% |
| Mn 257.610† | 79690.2 | 2.015 | mg/L | 0.0020 | 2.015 | mg/L | 0.0020 | 0.10% |
| Mo 202.031† | 20437.4 | 2.019 | mg/L | 0.0090 | 2.019 | mg/L | 0.0090 | 0.45% |
| Na 589.592† | 262.9 | 0.03902 | mg/L | 0.007299 | 0.03902 | mg/L | 0.007299 | 18.71% |
| Na 330.237† | 17.2 | 0.6438 | mg/L | 0.34100 | 0.6438 | mg/L | 0.34100 | 52.97% |
| Ni 231.604† | 3728.2 | 1.996 | mg/L | 0.0071 | 1.996 | mg/L | 0.0071 | 0.35% |
| Pb 220.353† | 14353.1 | 2.049 | mg/L | 0.0100 | 2.049 | mg/L | 0.0100 | 0.49% |
| Sb 206.836† | 2773.2 | 2.222 | mg/L | 0.0137 | 2.222 | mg/L | 0.0137 | 0.62% |
| Se 196.026† | 1687.3 | 2.025 | mg/L | 0.0193 | 2.025 | mg/L | 0.0193 | 0.95% |
| Si 288.158† | 15.5 | 0.02542 | mg/L | 0.001900 | 0.02542 | mg/L | 0.001900 | 7.48% |
| Sn 189.927† | -13.9 | -0.00246 | mg/L | 0.000675 | -0.00246 | mg/L | 0.000675 | 27.38% |
| Sr 421.552† | 942622.8 | 2.071 | mg/L | 0.0042 | 2.071 | mg/L | 0.0042 | 0.20% |
| Ti 334.903† | 39818.1 | 2.084 | mg/L | 0.0011 | 2.084 | mg/L | 0.0011 | 0.05% |
| Tl 190.801† | 3476.8 | 2.128 | mg/L | 0.0135 | 2.128 | mg/L | 0.0135 | 0.64% |
| V 292.402† | 266683.1 | 2.006 | mg/L | 0.0059 | 2.006 | mg/L | 0.0059 | 0.29% |
| Zn 206.200† | 5006.7 | 1.961 | mg/L | 0.0134 | 1.961 | mg/L | 0.0134 | 0.68% |

Sequence No.: 11
Sample ID: QC7M

Autosampler Location: 27
Date Collected: 5/29/2012 3:19:36 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: QC7M

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: QC7M

| Analyte | Mean Corrected | | | Std.Dev. | Sample | | | RSD |
|-------------|----------------|----------|-------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | Units | | Conc. | Units | Std.Dev. | |
| ScA 357.253 | 1861861.7 | 97.29 | % | 0.660 | | | | 0.68% |
| ScR 361.383 | 193272.9 | 98.39 | % | 0.439 | | | | 0.45% |
| Ag 328.068† | 202490.0 | 0.9858 | mg/L | 0.00816 | 0.9858 | mg/L | 0.00816 | 0.83% |
| Al 308.215† | 2790.1 | 2.132 | mg/L | 0.0072 | 2.132 | mg/L | 0.0072 | 0.34% |
| As 188.979† | 0.2 | -0.00003 | mg/L | 0.001026 | -0.00003 | mg/L | 0.001026 | >999.9% |
| B 249.677† | 3341.2 | 1.997 | mg/L | 0.0214 | 1.997 | mg/L | 0.0214 | 1.07% |
| Ba 233.527† | 14268.6 | 1.982 | mg/L | 0.0032 | 1.982 | mg/L | 0.0032 | 0.16% |
| Be 313.042† | 35.6 | 0.0013 | mg/L | 0.000019 | 0.0013 | mg/L | 0.000019 | 14.56% |
| Ca 317.933† | 37.0 | 0.00350 | mg/L | 0.001839 | 0.00350 | mg/L | 0.001839 | 52.54% |
| Cd 228.802† | -0.3 | -0.00001 | mg/L | 0.000033 | -0.00001 | mg/L | 0.000033 | 507.32% |
| Co 228.616† | 24.2 | -0.00020 | mg/L | 0.000162 | -0.00020 | mg/L | 0.000162 | 81.13% |
| Cr 267.716† | 0.8 | 0.00018 | mg/L | 0.001108 | 0.00018 | mg/L | 0.001108 | 606.05% |
| Cu 324.752† | 120.9 | 0.00050 | mg/L | 0.000142 | 0.00050 | mg/L | 0.000142 | 28.64% |
| Fe 273.955† | -0.4 | -0.00035 | mg/L | 0.001464 | -0.00035 | mg/L | 0.001464 | 419.93% |
| K 766.490† | 56660.7 | 21.74 | mg/L | 0.070 | 21.74 | mg/L | 0.070 | 0.32% |
| Mg 279.077† | -1.8 | -0.00169 | mg/L | 0.003223 | -0.00169 | mg/L | 0.003223 | 190.34% |
| Mn 257.610† | 13.2 | 0.00032 | mg/L | 0.000072 | 0.00032 | mg/L | 0.000072 | 22.84% |
| Mo 202.031† | 10.0 | 0.00095 | mg/L | 0.000231 | 0.00095 | mg/L | 0.000231 | 24.43% |
| Na 589.592† | 13935.9 | 2.068 | mg/L | 0.0077 | 2.068 | mg/L | 0.0077 | 0.37% |
| Na 330.237† | 36.7 | 1.819 | mg/L | 0.7057 | 1.819 | mg/L | 0.7057 | 38.80% |
| Ni 231.604† | -4.4 | -0.00235 | mg/L | 0.001179 | -0.00235 | mg/L | 0.001179 | 50.22% |
| Pb 220.353† | -1.8 | 0.00043 | mg/L | 0.000916 | 0.00043 | mg/L | 0.000916 | 214.59% |
| Sb 206.836† | -9.6 | -0.00721 | mg/L | 0.001432 | -0.00721 | mg/L | 0.001432 | 19.87% |
| Se 196.026† | 2.4 | 0.00235 | mg/L | 0.004496 | 0.00235 | mg/L | 0.004496 | 191.49% |
| Si 288.158† | 2836.8 | 2.292 | mg/L | 0.0080 | 2.292 | mg/L | 0.0080 | 0.35% |
| Sn 189.927† | -1.2 | -0.00037 | mg/L | 0.000847 | -0.00037 | mg/L | 0.000847 | 226.43% |
| Sr 421.552† | 51.0 | 0.00011 | mg/L | 0.000070 | 0.00011 | mg/L | 0.000070 | 62.51% |
| Ti 334.903† | 26.0 | 0.00136 | mg/L | 0.000460 | 0.00136 | mg/L | 0.000460 | 33.80% |
| Tl 190.801† | -0.8 | -0.00051 | mg/L | 0.003357 | -0.00051 | mg/L | 0.003357 | 656.48% |
| V 292.402† | -32.1 | -0.00023 | mg/L | 0.000293 | -0.00023 | mg/L | 0.000293 | 126.43% |
| Zn 206.200† | 0.0 | 0.00001 | mg/L | 0.000630 | 0.00001 | mg/L | 0.000630 | >999.9% |

Sequence No.: 12
Sample ID: UU52 A SWC

Autosampler Location: 28
Date Collected: 5/29/2012 3:25:36 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 A SWC

Analyte Back Pressure Flow
All 181.0 kPa 0.55 L/min

Mean Data: UU52 A SWC

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1866561.8 | 97.54 % | 1.382 | | | 1.42% |
| ScR 361.383 | 198778.1 | 101.2 % | 0.60 | | | 0.59% |
| Ag 328.068† | -62.0 | 0.00132 mg/L | 0.000266 | 0.00264 mg/L | 0.000531 | 20.14% |
| Al 308.215† | 21274.0 | 16.26 mg/L | 0.112 | 32.51 mg/L | 0.224 | 0.69% |
| As 188.979† | 56.1 | 0.04035 mg/L | 0.000784 | 0.08070 mg/L | 0.001567 | 1.94% |
| B 249.677† | 161.9 | 0.09675 mg/L | 0.001341 | 0.1935 mg/L | 0.00268 | 1.39% |
| Ba 233.527† | 387.6 | 0.05238 mg/L | 0.001044 | 0.1048 mg/L | 0.00209 | 1.99% |
| Be 313.042† | 100.2 | 0.00021 mg/L | 0.000063 | 0.00041 mg/L | 0.000126 | 30.42% |
| Ca 317.933† | 91096.3 | 8.612 mg/L | 0.0579 | 17.22 mg/L | 0.116 | 0.67% |
| Cd 228.802† | 154.2 | 0.00310 mg/L | 0.000063 | 0.00619 mg/L | 0.000126 | 2.04% |
| Co 228.616† | 559.1 | 0.01050 mg/L | 0.000236 | 0.02100 mg/L | 0.000472 | 2.25% |
| Cr 267.716† | 171.7 | 0.03895 mg/L | 0.000289 | 0.07791 mg/L | 0.000579 | 0.74% |
| Cu 324.752† | 31874.0 | 0.1341 mg/L | 0.00204 | 0.2682 mg/L | 0.00408 | 1.52% |
| Fe 273.955† | 48172.6 | 40.66 mg/L | 0.461 | 81.31 mg/L | 0.922 | 1.13% |
| K 766.490† | 8312.5 | 3.190 mg/L | 0.0440 | 6.380 mg/L | 0.0879 | 1.38% |
| Mg 279.077† | 14838.5 | 14.07 mg/L | 0.112 | 28.15 mg/L | 0.224 | 0.79% |
| Mn 257.610† | 13144.7 | 0.3322 mg/L | 0.00333 | 0.6644 mg/L | 0.00666 | 1.00% |
| Mo 202.031† | 186.8 | 0.01729 mg/L | 0.000680 | 0.03459 mg/L | 0.001359 | 3.93% |
| Na 589.592† | 210308.6 | 31.21 mg/L | 0.198 | 62.42 mg/L | 0.397 | 0.64% |
| Na 330.237† | 675.2 | 33.46 mg/L | 0.340 | 66.93 mg/L | 0.681 | 1.02% |
| Ni 231.604† | 84.4 | 0.04761 mg/L | 0.004067 | 0.09522 mg/L | 0.008133 | 8.54% |
| Pb 220.353† | 1237.2 | 0.1815 mg/L | 0.00272 | 0.3630 mg/L | 0.00543 | 1.50% |
| Sb 206.836† | -23.8 | -0.01305 mg/L | 0.003747 | -0.02609 mg/L | 0.007494 | 28.72% |
| Se 196.026† | 15.4 | 0.00869 mg/L | 0.004945 | 0.01737 mg/L | 0.009889 | 56.92% |
| Si 288.158† | 4551.3 | 3.681 mg/L | 0.0234 | 7.361 mg/L | 0.0468 | 0.64% |
| Sn 189.927† | -10.6 | -0.00224 mg/L | 0.001344 | -0.00449 mg/L | 0.002688 | 59.90% |
| Sr 421.552† | 52492.8 | 0.1153 mg/L | 0.00116 | 0.2306 mg/L | 0.00232 | 1.01% |
| Ti 334.903† | 15755.8 | 0.8253 mg/L | 0.00641 | 1.651 mg/L | 0.0128 | 0.78% |
| Tl 190.801† | -7.7 | -0.00266 mg/L | 0.001670 | -0.00532 mg/L | 0.003339 | 62.74% |
| V 292.402† | 7422.1 | 0.04960 mg/L | 0.001065 | 0.09921 mg/L | 0.002130 | 2.15% |
| Zn 206.200† | 1059.7 | 0.4158 mg/L | 0.00174 | 0.8317 mg/L | 0.00347 | 0.42% |

Sequence No.: 13
Sample ID: UU52 B SWC

Autosampler Location: 29
Date Collected: 5/29/2012 3:31:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 B SWC

Analyte Back Pressure Flow
All 181.0 kPa 0.55 L/min

Mean Data: UU52 B SWC

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|-------------|--------------------------|----------|--------------|----------|--------------|-------|----------|--------|
| ScA 357.253 | 1856729.2 | 97.02 | % | 0.398 | | | | 0.41% |
| ScR 361.383 | 197032.0 | 100.3 | % | 1.25 | | | | 1.24% |
| Ag 328.068† | 1.7 | 0.00159 | mg/L | 0.000255 | 0.00317 | mg/L | 0.000510 | 16.07% |
| Al 308.215† | 20965.1 | 16.02 | mg/L | 0.041 | 32.04 | mg/L | 0.083 | 0.26% |
| As 188.979† | 48.3 | 0.03431 | mg/L | 0.001197 | 0.06862 | mg/L | 0.002394 | 3.49% |
| B 249.677† | 137.7 | 0.08225 | mg/L | 0.000948 | 0.1645 | mg/L | 0.00190 | 1.15% |
| Ba 233.527† | 442.5 | 0.06006 | mg/L | 0.001067 | 0.1201 | mg/L | 0.00213 | 1.78% |
| Be 313.042† | 107.9 | 0.00024 | mg/L | 0.000011 | 0.00048 | mg/L | 0.000021 | 4.42% |
| Ca 317.933† | 89730.5 | 8.483 | mg/L | 0.0049 | 16.97 | mg/L | 0.010 | 0.06% |
| Cd 228.802† | 152.1 | 0.00306 | mg/L | 0.000199 | 0.00613 | mg/L | 0.000397 | 6.49% |
| Co 228.616† | 545.6 | 0.01025 | mg/L | 0.000068 | 0.02049 | mg/L | 0.000137 | 0.67% |
| Cr 267.716† | 176.4 | 0.04001 | mg/L | 0.001681 | 0.08003 | mg/L | 0.003361 | 4.20% |
| Cu 324.752† | 31389.5 | 0.1320 | mg/L | 0.00033 | 0.2640 | mg/L | 0.00066 | 0.25% |
| Fe 273.955† | 46864.2 | 39.55 | mg/L | 0.183 | 79.10 | mg/L | 0.366 | 0.46% |
| K 766.490† | 8219.9 | 3.154 | mg/L | 0.0580 | 6.309 | mg/L | 0.1160 | 1.84% |
| Mg 279.077† | 14576.4 | 13.83 | mg/L | 0.014 | 27.65 | mg/L | 0.029 | 0.10% |
| Mn 257.610† | 12651.1 | 0.3197 | mg/L | 0.00306 | 0.6395 | mg/L | 0.00612 | 0.96% |
| Mo 202.031† | 186.0 | 0.01724 | mg/L | 0.000616 | 0.03447 | mg/L | 0.001231 | 3.57% |
| Na 589.592† | 208674.8 | 30.97 | mg/L | 0.128 | 61.94 | mg/L | 0.257 | 0.41% |
| Na 330.237† | 676.8 | 33.55 | mg/L | 0.587 | 67.10 | mg/L | 1.174 | 1.75% |
| Ni 231.604† | 79.4 | 0.04483 | mg/L | 0.000257 | 0.08966 | mg/L | 0.000514 | 0.57% |
| Pb 220.353† | 1197.9 | 0.1758 | mg/L | 0.00206 | 0.3516 | mg/L | 0.00413 | 1.17% |
| Sb 206.836† | -24.1 | -0.01337 | mg/L | 0.004182 | -0.02674 | mg/L | 0.008364 | 31.28% |
| Se 196.026† | 16.4 | 0.01013 | mg/L | 0.006960 | 0.02025 | mg/L | 0.013919 | 68.73% |
| Si 288.158† | 4447.4 | 3.597 | mg/L | 0.0423 | 7.193 | mg/L | 0.0845 | 1.18% |
| Sn 189.927† | -9.6 | -0.00195 | mg/L | 0.001602 | -0.00390 | mg/L | 0.003205 | 82.15% |
| Sr 421.552† | 51153.0 | 0.1124 | mg/L | 0.00046 | 0.2247 | mg/L | 0.00092 | 0.41% |
| Ti 334.903† | 15348.3 | 0.8039 | mg/L | 0.00082 | 1.608 | mg/L | 0.0016 | 0.10% |
| Tl 190.801† | -6.4 | -0.00188 | mg/L | 0.000918 | -0.00377 | mg/L | 0.001836 | 48.71% |
| V 292.402† | 7107.7 | 0.04744 | mg/L | 0.000236 | 0.09487 | mg/L | 0.000472 | 0.50% |
| Zn 206.200† | 1011.1 | 0.3968 | mg/L | 0.00567 | 0.7935 | mg/L | 0.01133 | 1.43% |

Sequence No.: 14
Sample ID: UU52 CDUP SWC

Autosampler Location: 30
Date Collected: 5/29/2012 3:37:39 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 CDUP SWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: UU52 CDUP SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
| | Intensity | Conc. | | | Conc. | Units | |
| ScA 357.253 | 1854798.4 | 96.92 | % | 0.965 | | | 1.00% |
| ScR 361.383 | 197075.4 | 100.3 | % | 0.91 | | | 0.91% |
| Ag 328.068† | -150.9 | 0.00095 | mg/L | 0.000246 | 0.00190 | mg/L | 0.000492 25.86% |
| Al 308.215† | 24863.9 | 19.00 | mg/L | 0.019 | 38.00 | mg/L | 0.037 0.10% |
| As 188.979† | 44.2 | 0.03087 | mg/L | 0.000855 | 0.06173 | mg/L | 0.001709 2.77% |
| B 249.677† | 111.7 | 0.06673 | mg/L | 0.001349 | 0.1335 | mg/L | 0.00270 2.02% |
| Ba 233.527† | 381.6 | 0.05149 | mg/L | 0.000837 | 0.1030 | mg/L | 0.00167 1.63% |
| Be 313.042† | 114.9 | 0.00026 | mg/L | 0.000020 | 0.00052 | mg/L | 0.000039 7.60% |
| Ca 317.933† | 89647.2 | 8.475 | mg/L | 0.0186 | 16.95 | mg/L | 0.037 0.22% |
| Cd 228.802† | 154.1 | 0.00311 | mg/L | 0.000102 | 0.00622 | mg/L | 0.000204 3.28% |
| Co 228.616† | 596.5 | 0.01106 | mg/L | 0.000199 | 0.02212 | mg/L | 0.000397 1.80% |
| Cr 267.716† | 198.3 | 0.04500 | mg/L | 0.001218 | 0.09000 | mg/L | 0.002437 2.71% |
| Cu 324.752† | 36539.7 | 0.1533 | mg/L | 0.00244 | 0.3067 | mg/L | 0.00489 1.59% |
| Fe 273.955† | 50090.6 | 42.27 | mg/L | 0.127 | 84.55 | mg/L | 0.253 0.30% |
| K 766.490† | 9528.9 | 3.657 | mg/L | 0.0115 | 7.313 | mg/L | 0.0229 0.31% |
| Mg 279.077† | 15338.7 | 14.55 | mg/L | 0.040 | 29.10 | mg/L | 0.080 0.27% |
| Mn 257.610† | 14466.5 | 0.3656 | mg/L | 0.00041 | 0.7312 | mg/L | 0.00083 0.11% |
| Mo 202.031† | 149.4 | 0.01353 | mg/L | 0.000561 | 0.02706 | mg/L | 0.001122 4.14% |
| Na 589.592† | 194900.7 | 28.92 | mg/L | 0.075 | 57.85 | mg/L | 0.151 0.26% |
| Na 330.237† | 630.3 | 31.29 | mg/L | 0.402 | 62.57 | mg/L | 0.803 1.28% |
| Ni 231.604† | 90.2 | 0.05078 | mg/L | 0.002012 | 0.1016 | mg/L | 0.00402 3.96% |
| Pb 220.353† | 1144.8 | 0.1692 | mg/L | 0.00092 | 0.3384 | mg/L | 0.00184 0.54% |
| Sb 206.836† | -22.2 | -0.01082 | mg/L | 0.003200 | -0.02163 | mg/L | 0.006399 29.58% |
| Se 196.026† | 17.4 | 0.01017 | mg/L | 0.004183 | 0.02035 | mg/L | 0.008367 41.12% |
| Si 288.158† | 5103.6 | 4.127 | mg/L | 0.0477 | 8.254 | mg/L | 0.0955 1.16% |
| Sn 189.927† | -9.1 | -0.00168 | mg/L | 0.000991 | -0.00336 | mg/L | 0.001982 58.95% |
| Sr 421.552† | 48900.8 | 0.1074 | mg/L | 0.00055 | 0.2148 | mg/L | 0.00110 0.51% |
| Ti 334.903† | 18445.0 | 0.9662 | mg/L | 0.00160 | 1.932 | mg/L | 0.0032 0.17% |
| Tl 190.801† | -5.6 | -0.00149 | mg/L | 0.002509 | -0.00298 | mg/L | 0.005017 168.55% |
| V 292.402† | 7281.0 | 0.04826 | mg/L | 0.000750 | 0.09651 | mg/L | 0.001500 1.55% |
| Zn 206.200† | 945.7 | 0.3711 | mg/L | 0.00503 | 0.7423 | mg/L | 0.01006 1.36% |

Sequence No.: 15
Sample ID: UU52 C SWC

Autosampler Location: 31
Date Collected: 5/29/2012 3:43:41 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 C SWC

Analyte Back Pressure Flow
All 181.0 kPa 0.55 L/min

Mean Data: UU52 C SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1848755.9 | 96.61 | % | 0.325 | | | | 0.34% |
| ScR 361.383 | 197476.4 | 100.5 | % | 0.65 | | | | 0.65% |
| Ag 328.068† | -198.7 | 0.00069 | mg/L | 0.000047 | 0.00139 | mg/L | 0.000093 | 6.71% |
| Al 308.215† | 24920.0 | 19.04 | mg/L | 0.009 | 38.08 | mg/L | 0.017 | 0.04% |
| As 188.979† | 42.6 | 0.02967 | mg/L | 0.001580 | 0.05935 | mg/L | 0.003161 | 5.33% |
| B 249.677† | 116.9 | 0.06985 | mg/L | 0.001287 | 0.1397 | mg/L | 0.00257 | 1.84% |
| Ba 233.527† | 604.7 | 0.08251 | mg/L | 0.001303 | 0.1650 | mg/L | 0.00261 | 1.58% |
| Be 313.042† | 117.0 | 0.00027 | mg/L | 0.000016 | 0.00053 | mg/L | 0.000033 | 6.10% |
| Ca 317.933† | 89483.0 | 8.460 | mg/L | 0.0185 | 16.92 | mg/L | 0.037 | 0.22% |
| Cd 228.802† | 156.7 | 0.00317 | mg/L | 0.000079 | 0.00633 | mg/L | 0.000158 | 2.49% |
| Co 228.616† | 590.9 | 0.01093 | mg/L | 0.000170 | 0.02186 | mg/L | 0.000339 | 1.55% |
| Cr 267.716† | 201.5 | 0.04572 | mg/L | 0.000817 | 0.09143 | mg/L | 0.001633 | 1.79% |
| Cu 324.752† | 36914.7 | 0.1548 | mg/L | 0.00090 | 0.3096 | mg/L | 0.00180 | 0.58% |
| Fe 273.955† | 49346.9 | 41.65 | mg/L | 0.183 | 83.29 | mg/L | 0.366 | 0.44% |
| K 766.490† | 9634.5 | 3.697 | mg/L | 0.0253 | 7.395 | mg/L | 0.0505 | 0.68% |
| Mg 279.077† | 15287.9 | 14.50 | mg/L | 0.044 | 29.00 | mg/L | 0.089 | 0.31% |
| Mn 257.610† | 14273.5 | 0.3607 | mg/L | 0.00040 | 0.7215 | mg/L | 0.00080 | 0.11% |
| Mo 202.031† | 150.2 | 0.01361 | mg/L | 0.000228 | 0.02723 | mg/L | 0.000456 | 1.67% |
| Na 589.592† | 192163.0 | 28.52 | mg/L | 0.024 | 57.04 | mg/L | 0.048 | 0.08% |
| Na 330.237† | 622.2 | 30.89 | mg/L | 0.450 | 61.77 | mg/L | 0.899 | 1.46% |
| Ni 231.604† | 91.2 | 0.05132 | mg/L | 0.003718 | 0.1026 | mg/L | 0.00744 | 7.24% |
| Pb 220.353† | 1114.3 | 0.1649 | mg/L | 0.00103 | 0.3297 | mg/L | 0.00205 | 0.62% |
| Sb 206.836† | -26.6 | -0.01439 | mg/L | 0.004149 | -0.02877 | mg/L | 0.008298 | 28.84% |
| Se 196.026† | 17.3 | 0.01012 | mg/L | 0.002860 | 0.02024 | mg/L | 0.005719 | 28.26% |
| Si 288.158† | 5469.6 | 4.423 | mg/L | 0.0058 | 8.846 | mg/L | 0.0116 | 0.13% |
| Sn 189.927† | -11.8 | -0.00252 | mg/L | 0.000973 | -0.00504 | mg/L | 0.001945 | 38.63% |
| Sr 421.552† | 48667.6 | 0.1069 | mg/L | 0.00102 | 0.2138 | mg/L | 0.00203 | 0.95% |
| Ti 334.903† | 18440.7 | 0.9660 | mg/L | 0.00169 | 1.932 | mg/L | 0.0034 | 0.18% |
| Tl 190.801† | -7.1 | -0.00247 | mg/L | 0.002787 | -0.00494 | mg/L | 0.005575 | 112.96% |
| V 292.402† | 7302.7 | 0.04850 | mg/L | 0.000229 | 0.09701 | mg/L | 0.000458 | 0.47% |
| Zn 206.200† | 934.6 | 0.3668 | mg/L | 0.00082 | 0.7336 | mg/L | 0.00164 | 0.22% |

Sequence No.: 16

Sample ID: UU52 CSPK SWC

Autosampler Location: 32

Date Collected: 5/29/2012 3:49:43 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 CSPK SWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 181.0 kPa | 0.55 L/min |

Mean Data: UU52 CSPK SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|--------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1835145.1 | 95.89 | % | 0.522 | | | | 0.54% |
| ScR 361.383 | 200520.5 | 102.1 | % | 0.34 | | | | 0.34% |
| Ag 328.068† | 100225.9 | 0.4897 | mg/L | 0.00029 | 0.9794 | mg/L | 0.00057 | 0.06% |
| Al 308.215† | 26507.8 | 20.25 | mg/L | 0.094 | 40.50 | mg/L | 0.188 | 0.46% |
| As 188.979† | 2654.4 | 2.080 | mg/L | 0.0160 | 4.160 | mg/L | 0.0319 | 0.77% |
| B 249.677† | 115.6 | 0.06736 | mg/L | 0.003414 | 0.1347 | mg/L | 0.00683 | 5.07% |
| Ba 233.527† | 14066.8 | 1.953 | mg/L | 0.0113 | 3.905 | mg/L | 0.0225 | 0.58% |
| Be 313.042† | 142818.2 | 0.5085 | mg/L | 0.00230 | 1.017 | mg/L | 0.0046 | 0.45% |
| Ca 317.933† | 199179.1 | 18.83 | mg/L | 0.107 | 37.66 | mg/L | 0.213 | 0.57% |
| Cd 228.802† | 24899.6 | 0.5069 | mg/L | 0.00127 | 1.014 | mg/L | 0.0025 | 0.25% |
| Co 228.616† | 24023.3 | 0.5089 | mg/L | 0.00137 | 1.018 | mg/L | 0.0027 | 0.27% |
| Cr 267.716† | 2329.0 | 0.5272 | mg/L | 0.00252 | 1.054 | mg/L | 0.0050 | 0.48% |
| Cu 324.752† | 159102.3 | 0.6562 | mg/L | 0.00053 | 1.312 | mg/L | 0.0011 | 0.08% |
| Fe 273.955† | 51344.6 | 43.33 | mg/L | 0.134 | 86.66 | mg/L | 0.267 | 0.31% |
| K 766.490† | 36713.7 | 14.09 | mg/L | 0.019 | 28.18 | mg/L | 0.038 | 0.14% |
| Mg 279.077† | 25713.3 | 24.41 | mg/L | 0.147 | 48.81 | mg/L | 0.294 | 0.60% |
| Mn 257.610† | 32783.5 | 0.8291 | mg/L | 0.00420 | 1.658 | mg/L | 0.0084 | 0.51% |
| Mo 202.031† | 173.3 | 0.01542 | mg/L | 0.000361 | 0.03084 | mg/L | 0.000722 | 2.34% |
| Na 589.592† | 259066.9 | 38.45 | mg/L | 0.033 | 76.89 | mg/L | 0.066 | 0.09% |
| Na 330.237† | 826.8 | 40.81 | mg/L | 0.407 | 81.63 | mg/L | 0.815 | 1.00% |
| Ni 231.604† | 991.2 | 0.5321 | mg/L | 0.00158 | 1.064 | mg/L | 0.0032 | 0.30% |
| Pb 220.353† | 15015.1 | 2.147 | mg/L | 0.0057 | 4.294 | mg/L | 0.0114 | 0.26% |
| Sb 206.836† | -28.5 | -0.02030 | mg/L | 0.002427 | -0.04060 | mg/L | 0.004853 | 11.95% |
| Se 196.026† | 1702.4 | 2.034 | mg/L | 0.0177 | 4.068 | mg/L | 0.0353 | 0.87% |
| Si 288.158† | 5091.8 | 4.122 | mg/L | 0.0210 | 8.243 | mg/L | 0.0421 | 0.51% |
| Sn 189.927† | -23.7 | -0.00576 | mg/L | 0.000466 | -0.01151 | mg/L | 0.000932 | 8.10% |
| Sr 421.552† | 279134.5 | 0.6131 | mg/L | 0.00193 | 1.226 | mg/L | 0.0039 | 0.31% |
| Ti 334.903† | 18183.5 | 0.9520 | mg/L | 0.00517 | 1.904 | mg/L | 0.0103 | 0.54% |
| Tl 190.801† | 3114.5 | 1.929 | mg/L | 0.0086 | 3.858 | mg/L | 0.0171 | 0.44% |
| V 292.402† | 74471.5 | 0.5506 | mg/L | 0.00199 | 1.101 | mg/L | 0.0040 | 0.36% |
| Zn 206.200† | 2135.8 | 0.8379 | mg/L | 0.00479 | 1.676 | mg/L | 0.0096 | 0.57% |

UU52:02040

Sequence No.: 17
 Sample ID: UU52 MB1SPK SWC

Autosampler Location: 33
 Date Collected: 5/29/2012 3:55:48 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 MB1SPK SWC

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: UU52 MB1SPK SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1851882.3 | 96.77 | % | 0.628 | | | | 0.65% |
| ScR 361.383 | 196920.6 | 100.2 | % | 1.36 | | | | 1.35% |
| Ag 328.068† | 105550.4 | 0.5140 | mg/L | 0.00672 | 1.028 | mg/L | 0.0134 | 1.31% |
| Al 308.215† | 2837.7 | 2.161 | mg/L | 0.0279 | 4.321 | mg/L | 0.0558 | 1.29% |
| As 188.979† | 2689.7 | 2.111 | mg/L | 0.0136 | 4.223 | mg/L | 0.0273 | 0.65% |
| B 249.677† | 4.9 | 0.00124 | mg/L | 0.001953 | 0.00248 | mg/L | 0.003905 | 157.72% |
| Ba 233.527† | 14093.2 | 1.958 | mg/L | 0.0226 | 3.916 | mg/L | 0.0451 | 1.15% |
| Be 313.042† | 143917.3 | 0.5126 | mg/L | 0.00514 | 1.025 | mg/L | 0.0103 | 1.00% |
| Ca 317.933† | 112942.2 | 10.68 | mg/L | 0.105 | 21.36 | mg/L | 0.211 | 0.99% |
| Cd 228.802† | 25642.3 | 0.5220 | mg/L | 0.00673 | 1.044 | mg/L | 0.0135 | 1.29% |
| Co 228.616† | 23748.4 | 0.5046 | mg/L | 0.00696 | 1.009 | mg/L | 0.0139 | 1.38% |
| Cr 267.716† | 2230.3 | 0.5048 | mg/L | 0.00569 | 1.010 | mg/L | 0.0114 | 1.13% |
| Cu 324.752† | 125989.5 | 0.5170 | mg/L | 0.00628 | 1.034 | mg/L | 0.0126 | 1.22% |
| Fe 273.955† | 2557.8 | 2.158 | mg/L | 0.0262 | 4.317 | mg/L | 0.0524 | 1.21% |
| K 766.490† | 28698.3 | 11.01 | mg/L | 0.204 | 22.03 | mg/L | 0.407 | 1.85% |
| Mg 279.077† | 11530.9 | 10.96 | mg/L | 0.136 | 21.91 | mg/L | 0.273 | 1.25% |
| Mn 257.610† | 19556.0 | 0.4949 | mg/L | 0.00600 | 0.9897 | mg/L | 0.01200 | 1.21% |
| Mo 202.031† | 33.0 | 0.00274 | mg/L | 0.000588 | 0.00548 | mg/L | 0.001176 | 21.44% |
| Na 589.592† | 69901.4 | 10.37 | mg/L | 0.165 | 20.75 | mg/L | 0.329 | 1.59% |
| Na 330.237† | 235.2 | 11.44 | mg/L | 0.347 | 22.87 | mg/L | 0.694 | 3.04% |
| Ni 231.604† | 919.6 | 0.4913 | mg/L | 0.00227 | 0.9826 | mg/L | 0.00454 | 0.46% |
| Pb 220.353† | 14573.0 | 2.078 | mg/L | 0.0300 | 4.157 | mg/L | 0.0600 | 1.44% |
| Sb 206.836† | -11.2 | -0.01344 | mg/L | 0.001490 | -0.02688 | mg/L | 0.002980 | 11.09% |
| Se 196.026† | 1732.7 | 2.081 | mg/L | 0.0166 | 4.162 | mg/L | 0.0332 | 0.80% |
| Si 288.158† | 1.4 | 0.00548 | mg/L | 0.004902 | 0.01096 | mg/L | 0.009804 | 89.45% |
| Sn 189.927† | -18.9 | -0.00535 | mg/L | 0.000965 | -0.01071 | mg/L | 0.001929 | 18.02% |
| Sr 421.552† | 232956.7 | 0.5117 | mg/L | 0.00807 | 1.023 | mg/L | 0.0161 | 1.58% |
| Ti 334.903† | 22.3 | 0.00069 | mg/L | 0.000674 | 0.00138 | mg/L | 0.001348 | 97.72% |
| Tl 190.801† | 3296.6 | 2.040 | mg/L | 0.0111 | 4.080 | mg/L | 0.0223 | 0.55% |
| V 292.402† | 70527.6 | 0.5272 | mg/L | 0.00700 | 1.054 | mg/L | 0.0140 | 1.33% |
| Zn 206.200† | 1276.6 | 0.5007 | mg/L | 0.00471 | 1.001 | mg/L | 0.0094 | 0.94% |

Sequence No.: 18

Sample ID: CV

Dilution: 1X

Autosampler Location: 7

Date Collected: 5/29/2012 4:01:50 PM

Data Type: Original

Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: CV

| Analyte | Mean Corrected | | | Sample | | | RSD |
|-------------|----------------|-------------|----------|-------------|----------|-------|-----|
| | Intensity | Conc. Units | Std.Dev. | Conc. Units | Std.Dev. | | |
| ScA 357.253 | 1822413.0 | 95.23 % | 0.490 | | | 0.51% | |
| ScR 361.383 | 194830.3 | 99.18 % | 0.212 | | | 0.21% | |
| Ag 328.068† | 201272.2 | 0.9799 mg/L | 0.00302 | 0.9799 mg/L | 0.00302 | 0.31% | |
| Al 308.215† | 2740.4 | 2.055 mg/L | 0.0050 | 2.055 mg/L | 0.0050 | 0.24% | |
| As 188.979† | 2599.7 | 2.041 mg/L | 0.0028 | 2.041 mg/L | 0.0028 | 0.14% | |
| B 249.677† | 1614.1 | 0.9630 mg/L | 0.00381 | 0.9630 mg/L | 0.00381 | 0.40% | |
| Ba 233.527† | 6908.9 | 0.9595 mg/L | 0.00220 | 0.9595 mg/L | 0.00220 | 0.23% | |
| Be 313.042† | 273681.7 | 0.9747 mg/L | 0.00280 | 0.9747 mg/L | 0.00280 | 0.29% | |
| Ca 317.933† | 21555.9 | 2.038 mg/L | 0.0053 | 2.038 mg/L | 0.0053 | 0.26% | |
| Cd 228.802† | 49443.2 | 1.010 mg/L | 0.0067 | 1.010 mg/L | 0.0067 | 0.66% | |
| Co 228.616† | 45774.7 | 0.9721 mg/L | 0.00863 | 0.9721 mg/L | 0.00863 | 0.89% | |
| Cr 267.716† | 4231.9 | 0.9584 mg/L | 0.00392 | 0.9584 mg/L | 0.00392 | 0.41% | |
| Cu 324.752† | 250745.8 | 1.028 mg/L | 0.0083 | 1.028 mg/L | 0.0083 | 0.81% | |
| Fe 273.955† | 2468.1 | 2.082 mg/L | 0.0040 | 2.082 mg/L | 0.0040 | 0.19% | |
| K 766.490† | 54212.4 | 20.80 mg/L | 0.042 | 20.80 mg/L | 0.042 | 0.20% | |
| Mg 279.077† | 2221.5 | 2.114 mg/L | 0.0136 | 2.114 mg/L | 0.0136 | 0.64% | |
| Mn 257.610† | 38464.6 | 0.9729 mg/L | 0.00487 | 0.9729 mg/L | 0.00487 | 0.50% | |
| Mo 202.031† | 10334.8 | 1.021 mg/L | 0.0027 | 1.021 mg/L | 0.0027 | 0.27% | |
| Na 589.592† | 334407.2 | 49.63 mg/L | 0.245 | 49.63 mg/L | 0.245 | 0.49% | |
| Na 330.237† | 1065.6 | 52.68 mg/L | 0.196 | 52.68 mg/L | 0.196 | 0.37% | |
| Ni 231.604† | 1826.8 | 0.9784 mg/L | 0.00292 | 0.9784 mg/L | 0.00292 | 0.30% | |
| Pb 220.353† | 13945.1 | 1.990 mg/L | 0.0209 | 1.990 mg/L | 0.0209 | 1.05% | |
| Sb 206.836† | 2773.8 | 2.245 mg/L | 0.0041 | 2.245 mg/L | 0.0041 | 0.18% | |
| Se 196.026† | 1653.3 | 1.985 mg/L | 0.0111 | 1.985 mg/L | 0.0111 | 0.56% | |
| Si 288.158† | 2851.5 | 2.311 mg/L | 0.0030 | 2.311 mg/L | 0.0030 | 0.13% | |
| Sn 189.927† | 3036.1 | 0.9561 mg/L | 0.00407 | 0.9561 mg/L | 0.00407 | 0.43% | |
| Sr 421.552† | 455367.3 | 1.000 mg/L | 0.0033 | 1.000 mg/L | 0.0033 | 0.33% | |
| Ti 334.903† | 19912.3 | 1.042 mg/L | 0.0056 | 1.042 mg/L | 0.0056 | 0.54% | |
| Tl 190.801† | 3203.2 | 1.975 mg/L | 0.0074 | 1.975 mg/L | 0.0074 | 0.38% | |
| V 292.402† | 133128.3 | 1.001 mg/L | 0.0085 | 1.001 mg/L | 0.0085 | 0.85% | |
| Zn 206.200† | 2605.3 | 1.021 mg/L | 0.0032 | 1.021 mg/L | 0.0032 | 0.32% | |

Sequence No.: 19
Sample ID: CB 3
Dilution: 1X

Autosampler Location: 1
Date Collected: 5/29/2012 4:07:51 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|------------------|
| | Intensity | Conc. | | | Conc. | Units | |
| ScA 357.253 | 1857959.8 | 97.09 | % | 0.578 | | | 0.59% |
| ScR 361.383 | 195914.0 | 99.73 | % | 1.517 | | | 1.52% |
| Ag 328.068† | 102.2 | 0.00050 | mg/L | 0.000172 | 0.00050 | mg/L | 0.000172 34.57% |
| Al 308.215† | 12.9 | 0.00985 | mg/L | 0.009940 | 0.00985 | mg/L | 0.009940 100.87% |
| As 188.979† | -2.2 | -0.00177 | mg/L | 0.001060 | -0.00177 | mg/L | 0.001060 59.96% |
| B 249.677† | 15.3 | 0.00912 | mg/L | 0.004898 | 0.00912 | mg/L | 0.004898 53.67% |
| Ba 233.527† | 3.7 | 0.00052 | mg/L | 0.000393 | 0.00052 | mg/L | 0.000393 76.15% |
| Be 313.042† | 20.7 | 0.00007 | mg/L | 0.000040 | 0.00007 | mg/L | 0.000040 54.46% |
| Ca 317.933† | 4.3 | 0.00041 | mg/L | 0.001048 | 0.00041 | mg/L | 0.001048 256.63% |
| Cd 228.802† | 1.1 | 0.00003 | mg/L | 0.000059 | 0.00003 | mg/L | 0.000059 229.02% |
| Co 228.616† | 0.5 | 0.00001 | mg/L | 0.000126 | 0.00001 | mg/L | 0.000126 >999.9% |
| Cr 267.716† | -3.0 | -0.00068 | mg/L | 0.001151 | -0.00068 | mg/L | 0.001151 168.13% |
| Cu 324.752† | -4.1 | -0.00002 | mg/L | 0.000086 | -0.00002 | mg/L | 0.000086 519.83% |
| Fe 273.955† | 0.3 | 0.00026 | mg/L | 0.001574 | 0.00026 | mg/L | 0.001574 610.22% |
| K 766.490† | 28.4 | 0.01088 | mg/L | 0.011339 | 0.01088 | mg/L | 0.011339 104.21% |
| Mg 279.077† | 3.1 | 0.00299 | mg/L | 0.006621 | 0.00299 | mg/L | 0.006621 221.56% |
| Mn 257.610† | 2.4 | 0.00006 | mg/L | 0.000196 | 0.00006 | mg/L | 0.000196 318.40% |
| Mo 202.031† | 5.5 | 0.00054 | mg/L | 0.000444 | 0.00054 | mg/L | 0.000444 82.28% |
| Na 589.592† | 201.6 | 0.02993 | mg/L | 0.007835 | 0.02993 | mg/L | 0.007835 26.18% |
| Na 330.237† | -13.4 | -0.6640 | mg/L | 0.72120 | -0.6640 | mg/L | 0.72120 108.62% |
| Ni 231.604† | -2.0 | -0.00108 | mg/L | 0.001641 | -0.00108 | mg/L | 0.001641 152.08% |
| Pb 220.353† | 4.8 | 0.00068 | mg/L | 0.002274 | 0.00068 | mg/L | 0.002274 334.34% |
| Sb 206.836† | -3.9 | -0.00311 | mg/L | 0.003352 | -0.00311 | mg/L | 0.003352 107.86% |
| Se 196.026† | 2.9 | 0.00351 | mg/L | 0.004073 | 0.00351 | mg/L | 0.004073 116.19% |
| Si 288.158† | -1.5 | -0.00124 | mg/L | 0.005061 | -0.00124 | mg/L | 0.005061 407.26% |
| Sn 189.927† | 6.2 | 0.00194 | mg/L | 0.000296 | 0.00194 | mg/L | 0.000296 15.28% |
| Sr 421.552† | 39.3 | 0.00009 | mg/L | 0.000018 | 0.00009 | mg/L | 0.000018 21.25% |
| Ti 334.903† | -14.8 | -0.00077 | mg/L | 0.000594 | -0.00077 | mg/L | 0.000594 76.74% |
| Tl 190.801† | 5.2 | 0.00325 | mg/L | 0.002174 | 0.00325 | mg/L | 0.002174 66.88% |
| V 292.402† | -11.6 | -0.00009 | mg/L | 0.000137 | -0.00009 | mg/L | 0.000137 157.55% |
| Zn 206.200† | 1.9 | 0.00075 | mg/L | 0.000624 | 0.00075 | mg/L | 0.000624 82.80% |

Sequence No.: 20
Sample ID: UU62 MB1 TWC

Autosampler Location: 34
Date Collected: 5/29/2012 4:13:53 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 MB1 TWC

Analyte Back Pressure Flow
All 181.0 kPa 0.55 L/min

Mean Data: UU62 MB1 TWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1885895.3 | 98.55 | % | 0.647 | | | | 0.66% |
| ScR 361.383 | 194931.1 | 99.23 | % | 0.670 | | | | 0.68% |
| Ag 328.068† | 61.8 | 0.00030 | mg/L | 0.000297 | 0.00030 | mg/L | 0.000297 | 98.85% |
| Al 308.215† | 4.7 | 0.00358 | mg/L | 0.005230 | 0.00358 | mg/L | 0.005230 | 146.13% |
| As 188.979† | 0.8 | 0.00061 | mg/L | 0.002277 | 0.00061 | mg/L | 0.002277 | 373.28% |
| B 249.677† | 2.8 | 0.00165 | mg/L | 0.003372 | 0.00165 | mg/L | 0.003372 | 204.81% |
| Ba 233.527† | 6.2 | 0.00086 | mg/L | 0.001091 | 0.00086 | mg/L | 0.001091 | 126.19% |
| Be 313.042† | 6.6 | 0.00002 | mg/L | 0.000019 | 0.00002 | mg/L | 0.000019 | 78.07% |
| Ca 317.933† | 135.0 | 0.01276 | mg/L | 0.000718 | 0.01276 | mg/L | 0.000718 | 5.62% |
| Cd 228.802† | -4.9 | -0.00010 | mg/L | 0.000069 | -0.00010 | mg/L | 0.000069 | 68.31% |
| Co 228.616† | -2.7 | -0.00006 | mg/L | 0.000295 | -0.00006 | mg/L | 0.000295 | 523.24% |
| Cr 267.716† | -2.6 | -0.00058 | mg/L | 0.000313 | -0.00058 | mg/L | 0.000313 | 53.75% |
| Cu 324.752† | 11.9 | 0.00005 | mg/L | 0.000134 | 0.00005 | mg/L | 0.000134 | 273.65% |
| Fe 273.955† | 0.2 | 0.00019 | mg/L | 0.002801 | 0.00019 | mg/L | 0.002801 | >999.9% |
| K 766.490† | 86.7 | 0.03326 | mg/L | 0.017976 | 0.03326 | mg/L | 0.017976 | 54.04% |
| Mg 279.077† | 1.4 | 0.00136 | mg/L | 0.003192 | 0.00136 | mg/L | 0.003192 | 235.51% |
| Mn 257.610† | 10.0 | 0.00025 | mg/L | 0.000072 | 0.00025 | mg/L | 0.000072 | 28.35% |
| Mo 202.031† | 6.4 | 0.00063 | mg/L | 0.000316 | 0.00063 | mg/L | 0.000316 | 49.81% |
| Na 589.592† | 144.7 | 0.02147 | mg/L | 0.005676 | 0.02147 | mg/L | 0.005676 | 26.44% |
| Na 330.237† | 16.2 | 0.8014 | mg/L | 0.51967 | 0.8014 | mg/L | 0.51967 | 64.85% |
| Ni 231.604† | 0.8 | 0.00043 | mg/L | 0.001860 | 0.00043 | mg/L | 0.001860 | 431.13% |
| Pb 220.353† | -5.9 | -0.00084 | mg/L | 0.000582 | -0.00084 | mg/L | 0.000582 | 69.49% |
| Sb 206.836† | -3.8 | -0.00308 | mg/L | 0.000502 | -0.00308 | mg/L | 0.000502 | 16.27% |
| Se 196.026† | 2.4 | 0.00283 | mg/L | 0.003766 | 0.00283 | mg/L | 0.003766 | 133.16% |
| Si 288.158† | 2.7 | 0.00220 | mg/L | 0.005790 | 0.00220 | mg/L | 0.005790 | 263.74% |
| Sn 189.927† | 1.5 | 0.00047 | mg/L | 0.001449 | 0.00047 | mg/L | 0.001449 | 306.75% |
| Sr 421.552† | 51.1 | 0.00011 | mg/L | 0.000016 | 0.00011 | mg/L | 0.000016 | 13.90% |
| Ti 334.903† | -13.5 | -0.00071 | mg/L | 0.000188 | -0.00071 | mg/L | 0.000188 | 26.55% |
| Tl 190.801† | -4.5 | -0.00278 | mg/L | 0.002265 | -0.00278 | mg/L | 0.002265 | 81.58% |
| V 292.402† | -32.0 | -0.00024 | mg/L | 0.000461 | -0.00024 | mg/L | 0.000461 | 194.09% |
| Zn 206.200† | 1.5 | 0.00058 | mg/L | 0.001273 | 0.00058 | mg/L | 0.001273 | 219.61% |

Sequence No.: 21
Sample ID: UU62 K TWC

Autosampler Location: 35
Date Collected: 5/29/2012 4:19:55 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 K TWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU62 K TWC

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. Units | Sample Std.Dev. | RSD |
|-------------|--------------------------|----------|--------------|----------|---------------|-----------------|---------|
| ScA 357.253 | 1893403.0 | 98.94 | % | 0.989 | | | 1.00% |
| ScR 361.383 | 194853.3 | 99.19 | % | 1.390 | | | 1.40% |
| Ag 328.068† | 14.0 | 0.00007 | mg/L | 0.000364 | 0.00007 mg/L | 0.000364 | 538.18% |
| Al 308.215† | 9.6 | 0.00734 | mg/L | 0.004454 | 0.00734 mg/L | 0.004454 | 60.67% |
| As 188.979† | 3.0 | 0.00234 | mg/L | 0.001799 | 0.00234 mg/L | 0.001799 | 76.90% |
| B 249.677† | -3.3 | -0.00200 | mg/L | 0.004200 | -0.00200 mg/L | 0.004200 | 209.96% |
| Ba 233.527† | 1.0 | 0.00013 | mg/L | 0.000417 | 0.00013 mg/L | 0.000417 | 313.52% |
| Be 313.042† | 25.4 | 0.00009 | mg/L | 0.000020 | 0.00009 mg/L | 0.000020 | 22.19% |
| Ca 317.933† | 304.1 | 0.02875 | mg/L | 0.001124 | 0.02875 mg/L | 0.001124 | 3.91% |
| Cd 228.802† | 0.0 | -0.00001 | mg/L | 0.000081 | -0.00001 mg/L | 0.000081 | >999.9% |
| Co 228.616† | -0.4 | -0.00001 | mg/L | 0.000170 | -0.00001 mg/L | 0.000170 | >999.9% |
| Cr 267.716† | -3.3 | -0.00074 | mg/L | 0.001440 | -0.00074 mg/L | 0.001440 | 195.24% |
| Cu 324.752† | 1591.3 | 0.00653 | mg/L | 0.000289 | 0.00653 mg/L | 0.000289 | 4.42% |
| Fe 273.955† | 4.9 | 0.00416 | mg/L | 0.001364 | 0.00416 mg/L | 0.001364 | 32.75% |
| K 766.490† | 105.8 | 0.04059 | mg/L | 0.017526 | 0.04059 mg/L | 0.017526 | 43.17% |
| Mg 279.077† | 1.9 | 0.00182 | mg/L | 0.001699 | 0.00182 mg/L | 0.001699 | 93.26% |
| Mn 257.610† | 104.6 | 0.00264 | mg/L | 0.000101 | 0.00264 mg/L | 0.000101 | 3.83% |
| Mo 202.031† | 2.3 | 0.00022 | mg/L | 0.000065 | 0.00022 mg/L | 0.000065 | 28.78% |
| Na 589.592† | 331.7 | 0.04923 | mg/L | 0.002319 | 0.04923 mg/L | 0.002319 | 4.71% |
| Na 330.237† | 17.3 | 0.8561 | mg/L | 0.24908 | 0.8561 mg/L | 0.24908 | 29.09% |
| Ni 231.604† | -7.5 | -0.00404 | mg/L | 0.002299 | -0.00404 mg/L | 0.002299 | 56.97% |
| Pb 220.353† | -7.0 | -0.00100 | mg/L | 0.000794 | -0.00100 mg/L | 0.000794 | 79.25% |
| Sb 206.836† | -2.6 | -0.00208 | mg/L | 0.001661 | -0.00208 mg/L | 0.001661 | 79.83% |
| Se 196.026† | 1.0 | 0.00119 | mg/L | 0.003574 | 0.00119 mg/L | 0.003574 | 300.92% |
| Si 288.158† | 15.1 | 0.01222 | mg/L | 0.003527 | 0.01222 mg/L | 0.003527 | 28.85% |
| Sn 189.927† | 0.7 | 0.00021 | mg/L | 0.000585 | 0.00021 mg/L | 0.000585 | 278.15% |
| Sr 421.552† | 50.9 | 0.00011 | mg/L | 0.000075 | 0.00011 mg/L | 0.000075 | 67.46% |
| Ti 334.903† | 5.5 | 0.00029 | mg/L | 0.001392 | 0.00029 mg/L | 0.001392 | 487.43% |
| Tl 190.801† | 1.4 | 0.00090 | mg/L | 0.001552 | 0.00090 mg/L | 0.001552 | 172.68% |
| V 292.402† | -57.8 | -0.00043 | mg/L | 0.000330 | -0.00043 mg/L | 0.000330 | 76.08% |
| Zn 206.200† | 11.7 | 0.00458 | mg/L | 0.000723 | 0.00458 mg/L | 0.000723 | 15.78% |

Sequence No.: 22

Sample ID: UU62 JDUP TWC

Autosampler Location: 36

Date Collected: 5/29/2012 4:25:56 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 JDUP TWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU62 JDUP TWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1870685.4 | 97.75 | % | 0.572 | | | | 0.58% |
| ScR 361.383 | 195531.6 | 99.54 | % | 0.467 | | | | 0.47% |
| Ag 328.068† | -18.5 | -0.00009 | mg/L | 0.000339 | -0.00009 | mg/L | 0.000339 | 376.86% |
| Al 308.215† | 14.2 | 0.01082 | mg/L | 0.004349 | 0.01082 | mg/L | 0.004349 | 40.19% |
| As 188.979† | -1.8 | -0.00143 | mg/L | 0.003103 | -0.00143 | mg/L | 0.003103 | 216.65% |
| B 249.677† | -3.3 | -0.00196 | mg/L | 0.001109 | -0.00196 | mg/L | 0.001109 | 56.58% |
| Ba 233.527† | 0.0 | 0.00000 | mg/L | 0.000272 | 0.00000 | mg/L | 0.000272 | >999.9% |
| Be 313.042† | 28.9 | 0.00010 | mg/L | 0.000018 | 0.00010 | mg/L | 0.000018 | 17.27% |
| Ca 317.933† | 292.5 | 0.02765 | mg/L | 0.002486 | 0.02765 | mg/L | 0.002486 | 8.99% |
| Cd 228.802† | -1.0 | -0.00002 | mg/L | 0.000065 | -0.00002 | mg/L | 0.000065 | 341.58% |
| Co 228.616† | 2.1 | 0.00004 | mg/L | 0.000105 | 0.00004 | mg/L | 0.000105 | 238.73% |
| Cr 267.716† | -8.9 | -0.00203 | mg/L | 0.001395 | -0.00203 | mg/L | 0.001395 | 68.83% |
| Cu 324.752† | 16.4 | 0.00007 | mg/L | 0.000077 | 0.00007 | mg/L | 0.000077 | 114.14% |
| Fe 273.955† | 8.2 | 0.00691 | mg/L | 0.001741 | 0.00691 | mg/L | 0.001741 | 25.18% |
| K 766.490† | 152.5 | 0.05853 | mg/L | 0.023029 | 0.05853 | mg/L | 0.023029 | 39.34% |
| Mg 279.077† | -2.0 | -0.00188 | mg/L | 0.005938 | -0.00188 | mg/L | 0.005938 | 316.57% |
| Mn 257.610† | 47.3 | 0.00119 | mg/L | 0.000142 | 0.00119 | mg/L | 0.000142 | 11.91% |
| Mo 202.031† | 8.0 | 0.00079 | mg/L | 0.000439 | 0.00079 | mg/L | 0.000439 | 55.60% |
| Na 589.592† | 643.5 | 0.09550 | mg/L | 0.007666 | 0.09550 | mg/L | 0.007666 | 8.03% |
| Na 330.237† | 1.0 | 0.04762 | mg/L | 0.474559 | 0.04762 | mg/L | 0.474559 | 996.63% |
| Ni 231.604† | -5.8 | -0.00311 | mg/L | 0.003361 | -0.00311 | mg/L | 0.003361 | 108.19% |
| Pb 220.353† | -3.4 | -0.00048 | mg/L | 0.000353 | -0.00048 | mg/L | 0.000353 | 72.99% |
| Sb 206.836† | -4.7 | -0.00374 | mg/L | 0.001929 | -0.00374 | mg/L | 0.001929 | 51.58% |
| Se 196.026† | 4.6 | 0.00549 | mg/L | 0.003913 | 0.00549 | mg/L | 0.003913 | 71.35% |
| Si 288.158† | 1.7 | 0.00138 | mg/L | 0.001735 | 0.00138 | mg/L | 0.001735 | 125.68% |
| Sn 189.927† | 0.1 | 0.00002 | mg/L | 0.000519 | 0.00002 | mg/L | 0.000519 | >999.9% |
| Sr 421.552† | 101.0 | 0.00022 | mg/L | 0.000121 | 0.00022 | mg/L | 0.000121 | 54.68% |
| Ti 334.903† | 5.3 | 0.00028 | mg/L | 0.001025 | 0.00028 | mg/L | 0.001025 | 371.64% |
| Tl 190.801† | -2.2 | -0.00140 | mg/L | 0.003310 | -0.00140 | mg/L | 0.003310 | 236.94% |
| V 292.402† | -31.2 | -0.00024 | mg/L | 0.000076 | -0.00024 | mg/L | 0.000076 | 31.35% |
| Zn 206.200† | 8.2 | 0.00322 | mg/L | 0.000873 | 0.00322 | mg/L | 0.000873 | 27.14% |

UU52: 02046

Sequence No.: 23
Sample ID: UU62 J TWC

Autosampler Location: 37
Date Collected: 5/29/2012 4:31:56 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 J TWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU62 J TWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1877381.1 | 98.10 | % | 0.259 | | | | 0.26% |
| ScR 361.383 | 194799.6 | 99.17 | % | 0.901 | | | | 0.91% |
| Ag 328.068† | 3.3 | 0.00002 | mg/L | 0.000277 | 0.00002 | mg/L | 0.000277 | >999.9% |
| Al 308.215† | 8.8 | 0.00670 | mg/L | 0.002090 | 0.00670 | mg/L | 0.002090 | 31.18% |
| As 188.979† | 1.3 | 0.00099 | mg/L | 0.002211 | 0.00099 | mg/L | 0.002211 | 223.48% |
| B 249.677† | -2.1 | -0.00127 | mg/L | 0.000989 | -0.00127 | mg/L | 0.000989 | 77.67% |
| Ba 233.527† | -0.4 | -0.00005 | mg/L | 0.000722 | -0.00005 | mg/L | 0.000722 | >999.9% |
| Be 313.042† | 29.4 | 0.00011 | mg/L | 0.000019 | 0.00011 | mg/L | 0.000019 | 18.38% |
| Ca 317.933† | 370.1 | 0.03499 | mg/L | 0.001102 | 0.03499 | mg/L | 0.001102 | 3.15% |
| Cd 228.802† | -0.8 | -0.00002 | mg/L | 0.000133 | -0.00002 | mg/L | 0.000133 | 747.63% |
| Co 228.616† | 0.0 | 0.00000 | mg/L | 0.000078 | 0.00000 | mg/L | 0.000078 | >999.9% |
| Cr 267.716† | -2.5 | -0.00057 | mg/L | 0.000928 | -0.00057 | mg/L | 0.000928 | 163.12% |
| Cu 324.752† | 28.4 | 0.00012 | mg/L | 0.000289 | 0.00012 | mg/L | 0.000289 | 246.78% |
| Fe 273.955† | 11.9 | 0.01008 | mg/L | 0.002757 | 0.01008 | mg/L | 0.002757 | 27.34% |
| K 766.490† | 166.3 | 0.06381 | mg/L | 0.015287 | 0.06381 | mg/L | 0.015287 | 23.96% |
| Mg 279.077† | 3.2 | 0.00303 | mg/L | 0.008011 | 0.00303 | mg/L | 0.008011 | 264.79% |
| Mn 257.610† | 43.1 | 0.00109 | mg/L | 0.000137 | 0.00109 | mg/L | 0.000137 | 12.55% |
| Mo 202.031† | 3.4 | 0.00033 | mg/L | 0.000468 | 0.00033 | mg/L | 0.000468 | 141.79% |
| Na 589.592† | 958.0 | 0.1422 | mg/L | 0.00335 | 0.1422 | mg/L | 0.00335 | 2.36% |
| Na 330.237† | 0.7 | 0.03196 | mg/L | 0.638743 | 0.03196 | mg/L | 0.638743 | >999.9% |
| Ni 231.604† | 1.2 | 0.00066 | mg/L | 0.002904 | 0.00066 | mg/L | 0.002904 | 439.08% |
| Pb 220.353† | -2.4 | -0.00034 | mg/L | 0.000508 | -0.00034 | mg/L | 0.000508 | 147.80% |
| Sb 206.836† | -3.7 | -0.00301 | mg/L | 0.002334 | -0.00301 | mg/L | 0.002334 | 77.52% |
| Se 196.026† | 8.1 | 0.00978 | mg/L | 0.003088 | 0.00978 | mg/L | 0.003088 | 31.57% |
| Si 288.158† | 4.1 | 0.00334 | mg/L | 0.004022 | 0.00334 | mg/L | 0.004022 | 120.27% |
| Sn 189.927† | -2.5 | -0.00078 | mg/L | 0.001079 | -0.00078 | mg/L | 0.001079 | 138.13% |
| Sr 421.552† | 109.3 | 0.00024 | mg/L | 0.000054 | 0.00024 | mg/L | 0.000054 | 22.56% |
| Ti 334.903† | 2.2 | 0.00011 | mg/L | 0.001411 | 0.00011 | mg/L | 0.001411 | >999.9% |
| Tl 190.801† | 1.6 | 0.00097 | mg/L | 0.001965 | 0.00097 | mg/L | 0.001965 | 202.86% |
| V 292.402† | -2.1 | -0.00002 | mg/L | 0.000049 | -0.00002 | mg/L | 0.000049 | 262.36% |
| Zn 206.200† | 8.7 | 0.00342 | mg/L | 0.001003 | 0.00342 | mg/L | 0.001003 | 29.30% |

Sequence No.: 24
Sample ID: UU62 JSPK TWC

Autosampler Location: 38
Date Collected: 5/29/2012 4:37:56 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 JSPK TWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU62 JSPK TWC

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1856368.1 | 97.00 | % | 0.245 | | | 0.25% |
| ScR 361.383 | 196802.3 | 100.2 | % | 0.11 | | | 0.11% |
| Ag 328.068† | 104168.6 | 0.5073 | mg/L | 0.00133 | 0.5073 mg/L | 0.00133 | 0.26% |
| Al 308.215† | 2819.0 | 2.146 | mg/L | 0.0030 | 2.146 mg/L | 0.0030 | 0.14% |
| As 188.979† | 2683.3 | 2.106 | mg/L | 0.0092 | 2.106 mg/L | 0.0092 | 0.44% |
| B 249.677† | -4.1 | -0.00416 | mg/L | 0.001610 | -0.00416 mg/L | 0.001610 | 38.73% |
| Ba 233.527† | 13966.4 | 1.940 | mg/L | 0.0027 | 1.940 mg/L | 0.0027 | 0.14% |
| Be 313.042† | 146892.9 | 0.5232 | mg/L | 0.00176 | 0.5232 mg/L | 0.00176 | 0.34% |
| Ca 317.933† | 114859.1 | 10.86 | mg/L | 0.036 | 10.86 mg/L | 0.036 | 0.33% |
| Cd 228.802† | 25156.5 | 0.5121 | mg/L | 0.00071 | 0.5121 mg/L | 0.00071 | 0.14% |
| Co 228.616† | 23427.0 | 0.4978 | mg/L | 0.00201 | 0.4978 mg/L | 0.00201 | 0.40% |
| Cr 267.716† | 2254.3 | 0.5102 | mg/L | 0.00059 | 0.5102 mg/L | 0.00059 | 0.12% |
| Cu 324.752† | 123905.8 | 0.5085 | mg/L | 0.00179 | 0.5085 mg/L | 0.00179 | 0.35% |
| Fe 273.955† | 2553.3 | 2.154 | mg/L | 0.0065 | 2.154 mg/L | 0.0065 | 0.30% |
| K 766.490† | 28624.5 | 10.98 | mg/L | 0.041 | 10.98 mg/L | 0.041 | 0.38% |
| Mg 279.077† | 11568.2 | 10.99 | mg/L | 0.021 | 10.99 mg/L | 0.021 | 0.20% |
| Mn 257.610† | 19572.1 | 0.4953 | mg/L | 0.00115 | 0.4953 mg/L | 0.00115 | 0.23% |
| Mo 202.031† | 37.8 | 0.00321 | mg/L | 0.000435 | 0.00321 mg/L | 0.000435 | 13.52% |
| Na 589.592† | 69724.2 | 10.35 | mg/L | 0.024 | 10.35 mg/L | 0.024 | 0.23% |
| Na 330.237† | 230.7 | 11.21 | mg/L | 0.156 | 11.21 mg/L | 0.156 | 1.39% |
| Ni 231.604† | 908.2 | 0.4852 | mg/L | 0.00168 | 0.4852 mg/L | 0.00168 | 0.35% |
| Pb 220.353† | 14307.2 | 2.041 | mg/L | 0.0058 | 2.041 mg/L | 0.0058 | 0.29% |
| Sb 206.836† | -6.3 | -0.00960 | mg/L | 0.002869 | -0.00960 mg/L | 0.002869 | 29.89% |
| Se 196.026† | 1707.6 | 2.051 | mg/L | 0.0063 | 2.051 mg/L | 0.0063 | 0.31% |
| Si 288.158† | 6.1 | 0.00932 | mg/L | 0.004855 | 0.00932 mg/L | 0.004855 | 52.06% |
| Sn 189.927† | -14.5 | -0.00398 | mg/L | 0.000028 | -0.00398 mg/L | 0.000028 | 0.69% |
| Sr 421.552† | 234153.1 | 0.5143 | mg/L | 0.00558 | 0.5143 mg/L | 0.00558 | 1.08% |
| Ti 334.903† | 22.9 | 0.00072 | mg/L | 0.000437 | 0.00072 mg/L | 0.000437 | 61.09% |
| Tl 190.801† | 3272.5 | 2.025 | mg/L | 0.0127 | 2.025 mg/L | 0.0127 | 0.63% |
| V 292.402† | 69456.9 | 0.5193 | mg/L | 0.00232 | 0.5193 mg/L | 0.00232 | 0.45% |
| Zn 206.200† | 1273.5 | 0.4994 | mg/L | 0.00237 | 0.4994 mg/L | 0.00237 | 0.47% |

Sequence No.: 25
Sample ID: UU52 D SWC

Autosampler Location: 39
Date Collected: 5/29/2012 4:43:58 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 D SWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU52 D SWC

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1845543.1 | 96.44 | % | 0.108 | | | 0.11% |
| ScR 361.383 | 197523.3 | 100.6 | % | 0.48 | | | 0.48% |
| Ag 328.068† | -58.9 | 0.00087 | mg/L | 0.000144 | 0.00174 mg/L | 0.000287 | 16.55% |
| Al 308.215† | 18167.8 | 13.88 | mg/L | 0.110 | 27.77 mg/L | 0.219 | 0.79% |
| As 188.979† | 30.9 | 0.02147 | mg/L | 0.000755 | 0.04294 mg/L | 0.001509 | 3.52% |
| B 249.677† | 130.9 | 0.07824 | mg/L | 0.000320 | 0.1565 mg/L | 0.00064 | 0.41% |
| Ba 233.527† | 256.0 | 0.03452 | mg/L | 0.000229 | 0.06904 mg/L | 0.000457 | 0.66% |
| Be 313.042† | 101.8 | 0.00024 | mg/L | 0.000013 | 0.00049 mg/L | 0.000027 | 5.56% |
| Ca 317.933† | 98846.8 | 9.345 | mg/L | 0.0986 | 18.69 mg/L | 0.197 | 1.05% |
| Cd 228.802† | 97.3 | 0.00196 | mg/L | 0.000114 | 0.00392 mg/L | 0.000228 | 5.82% |
| Co 228.616† | 425.9 | 0.00792 | mg/L | 0.000107 | 0.01584 mg/L | 0.000214 | 1.35% |
| Cr 267.716† | 144.8 | 0.03274 | mg/L | 0.000279 | 0.06547 mg/L | 0.000557 | 0.85% |
| Cu 324.752† | 18968.3 | 0.08017 | mg/L | 0.000361 | 0.1603 mg/L | 0.00072 | 0.45% |
| Fe 273.955† | 34184.6 | 28.85 | mg/L | 0.226 | 57.70 mg/L | 0.452 | 0.78% |
| K 766.490† | 8527.2 | 3.272 | mg/L | 0.0226 | 6.545 mg/L | 0.0452 | 0.69% |
| Mg 279.077† | 13046.0 | 12.38 | mg/L | 0.051 | 24.76 mg/L | 0.101 | 0.41% |
| Mn 257.610† | 9324.0 | 0.2356 | mg/L | 0.00077 | 0.4713 mg/L | 0.00154 | 0.33% |
| Mo 202.031† | 122.5 | 0.01114 | mg/L | 0.000592 | 0.02229 mg/L | 0.001185 | 5.31% |
| Na 589.592† | 204021.7 | 30.28 | mg/L | 0.233 | 60.56 mg/L | 0.466 | 0.77% |
| Na 330.237† | 663.6 | 32.92 | mg/L | 0.198 | 65.84 mg/L | 0.397 | 0.60% |
| Ni 231.604† | 62.7 | 0.03526 | mg/L | 0.002876 | 0.07051 mg/L | 0.005753 | 8.16% |
| Pb 220.353† | 678.3 | 0.1011 | mg/L | 0.00126 | 0.2022 mg/L | 0.00252 | 1.24% |
| Sb 206.836† | -20.9 | -0.01144 | mg/L | 0.005919 | -0.02287 mg/L | 0.011839 | 51.76% |
| Se 196.026† | 14.5 | 0.00963 | mg/L | 0.001198 | 0.01926 mg/L | 0.002395 | 12.44% |
| Si 288.158† | 4635.8 | 3.749 | mg/L | 0.0130 | 7.497 mg/L | 0.0261 | 0.35% |
| Sn 189.927† | -10.2 | -0.00225 | mg/L | 0.001401 | -0.00450 mg/L | 0.002803 | 62.22% |
| Sr 421.552† | 56052.5 | 0.1231 | mg/L | 0.00041 | 0.2462 mg/L | 0.00082 | 0.33% |
| Ti 334.903† | 12915.6 | 0.6764 | mg/L | 0.00396 | 1.353 mg/L | 0.0079 | 0.59% |
| Tl 190.801† | -7.3 | -0.00320 | mg/L | 0.002427 | -0.00639 mg/L | 0.004855 | 75.95% |
| V 292.402† | 5925.3 | 0.04005 | mg/L | 0.000215 | 0.08010 mg/L | 0.000431 | 0.54% |
| Zn 206.200† | 549.7 | 0.2159 | mg/L | 0.00020 | 0.4318 mg/L | 0.00040 | 0.09% |

Sequence No.: 26
Sample ID: UU52 E SWC

Autosampler Location: 40
Date Collected: 5/29/2012 4:50:00 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 E SWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU52 E SWC

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|---------------|--------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1830505.8 | 95.65 % | % | 0.497 | | | 0.52% |
| ScR 361.383 | 195851.9 | 99.70 % | % | 1.067 | | | 1.07% |
| Ag 328.068† | -119.3 | 0.00086 mg/L | mg/L | 0.000198 | 0.00172 mg/L | 0.000397 | 23.10% |
| Al 308.215† | 21434.9 | 16.38 mg/L | mg/L | 0.027 | 32.76 mg/L | 0.053 | 0.16% |
| As 188.979† | 36.3 | 0.02520 mg/L | mg/L | 0.000414 | 0.05040 mg/L | 0.000827 | 1.64% |
| B 249.677† | 113.2 | 0.06762 mg/L | mg/L | 0.002965 | 0.1352 mg/L | 0.00593 | 4.38% |
| Ba 233.527† | 382.9 | 0.05189 mg/L | mg/L | 0.001407 | 0.1038 mg/L | 0.00281 | 2.71% |
| Be 313.042† | 84.9 | 0.00017 mg/L | mg/L | 0.000041 | 0.00034 mg/L | 0.000082 | 23.99% |
| Ca 317.933† | 86690.9 | 8.196 mg/L | mg/L | 0.0361 | 16.39 mg/L | 0.072 | 0.44% |
| Cd 228.802† | 113.4 | 0.00228 mg/L | mg/L | 0.000026 | 0.00457 mg/L | 0.000052 | 1.15% |
| Co 228.616† | 527.4 | 0.00981 mg/L | mg/L | 0.000091 | 0.01962 mg/L | 0.000183 | 0.93% |
| Cr 267.716† | 156.4 | 0.03547 mg/L | mg/L | 0.002148 | 0.07094 mg/L | 0.004296 | 6.06% |
| Cu 324.752† | 24113.0 | 0.1019 mg/L | mg/L | 0.00028 | 0.2037 mg/L | 0.00056 | 0.27% |
| Fe 273.955† | 42741.7 | 36.07 mg/L | mg/L | 0.199 | 72.14 mg/L | 0.399 | 0.55% |
| K 766.490† | 8576.9 | 3.291 mg/L | mg/L | 0.0321 | 6.583 mg/L | 0.0642 | 0.98% |
| Mg 279.077† | 13638.6 | 12.94 mg/L | mg/L | 0.138 | 25.87 mg/L | 0.277 | 1.07% |
| Mn 257.610† | 12177.7 | 0.3078 mg/L | mg/L | 0.00328 | 0.6155 mg/L | 0.00655 | 1.06% |
| Mo 202.031† | 123.8 | 0.01115 mg/L | mg/L | 0.000556 | 0.02230 mg/L | 0.001112 | 4.99% |
| Na 589.592† | 181549.2 | 26.94 mg/L | mg/L | 0.044 | 53.89 mg/L | 0.087 | 0.16% |
| Na 330.237† | 587.9 | 29.19 mg/L | mg/L | 0.213 | 58.38 mg/L | 0.426 | 0.73% |
| Ni 231.604† | 71.4 | 0.04039 mg/L | mg/L | 0.002510 | 0.08078 mg/L | 0.005020 | 6.21% |
| Pb 220.353† | 747.0 | 0.1117 mg/L | mg/L | 0.00117 | 0.2233 mg/L | 0.00233 | 1.04% |
| Sb 206.836† | -19.5 | -0.00947 mg/L | mg/L | 0.001314 | -0.01894 mg/L | 0.002627 | 13.87% |
| Se 196.026† | 13.9 | 0.00743 mg/L | mg/L | 0.009403 | 0.01487 mg/L | 0.018806 | 126.49% |
| Si 288.158† | 4876.5 | 3.943 mg/L | mg/L | 0.0342 | 7.887 mg/L | 0.0683 | 0.87% |
| Sn 189.927† | -14.6 | -0.00356 mg/L | mg/L | 0.001992 | -0.00712 mg/L | 0.003983 | 55.95% |
| Sr 421.552† | 49482.7 | 0.1087 mg/L | mg/L | 0.00086 | 0.2174 mg/L | 0.00172 | 0.79% |
| Ti 334.903† | 15937.4 | 0.8348 mg/L | mg/L | 0.00150 | 1.670 mg/L | 0.0030 | 0.18% |
| Tl 190.801† | -6.9 | -0.00259 mg/L | mg/L | 0.004294 | -0.00519 mg/L | 0.008587 | 165.58% |
| V 292.402† | 6428.2 | 0.04274 mg/L | mg/L | 0.000420 | 0.08549 mg/L | 0.000840 | 0.98% |
| Zn 206.200† | 677.6 | 0.2660 mg/L | mg/L | 0.00253 | 0.5320 mg/L | 0.00506 | 0.95% |

Sequence No.: 27
Sample ID: UU52 F SWC

Autosampler Location: 41
Date Collected: 5/29/2012 4:56:02 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 F SWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU52 F SWC

| Analyte | Mean Corrected | | Calib. Conc. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|---------------|-----------------------|---------------|-------------|----------|--------|
| | Intensity | Conc. Units | | | Conc. Units | Std.Dev. | |
| ScA 357.253 | 1846034.5 | 96.46 % | 0.545 | | | | 0.57% |
| ScR 361.383 | 194812.3 | 99.17 % | 0.842 | | | | 0.85% |
| Ag 328.068† | -87.9 | 0.00096 mg/L | 0.000588 | 0.00192 mg/L | 0.001177 | | 61.17% |
| Al 308.215† | 7326.6 | 5.598 mg/L | 0.0488 | 11.20 mg/L | 0.098 | | 0.87% |
| As 188.979† | 65.4 | 0.04853 mg/L | 0.000961 | 0.09706 mg/L | 0.001921 | | 1.98% |
| B 249.677† | 133.9 | 0.08000 mg/L | 0.001413 | 0.1600 mg/L | 0.00283 | | 1.77% |
| Ba 233.527† | 342.3 | 0.04631 mg/L | 0.000536 | 0.09261 mg/L | 0.001071 | | 1.16% |
| Be 313.042† | 48.6 | 0.00008 mg/L | 0.000040 | 0.00017 mg/L | 0.000080 | | 48.13% |
| Ca 317.933† | 70764.6 | 6.690 mg/L | 0.0355 | 13.38 mg/L | 0.071 | | 0.53% |
| Cd 228.802† | 112.9 | 0.00223 mg/L | 0.000036 | 0.00447 mg/L | 0.000071 | | 1.60% |
| Co 228.616† | 356.1 | 0.00695 mg/L | 0.000127 | 0.01389 mg/L | 0.000254 | | 1.83% |
| Cr 267.716† | 88.7 | 0.02038 mg/L | 0.000838 | 0.04077 mg/L | 0.001676 | | 4.11% |
| Cu 324.752† | 49735.7 | 0.2069 mg/L | 0.00231 | 0.4139 mg/L | 0.00462 | | 1.12% |
| Fe 273.955† | 41395.1 | 34.94 mg/L | 0.255 | 69.87 mg/L | 0.510 | | 0.73% |
| K 766.490† | 3225.3 | 1.238 mg/L | 0.0349 | 2.475 mg/L | 0.0699 | | 2.82% |
| Mg 279.077† | 6997.1 | 6.627 mg/L | 0.0625 | 13.25 mg/L | 0.125 | | 0.94% |
| Mn 257.610† | 8684.1 | 0.2197 mg/L | 0.00256 | 0.4395 mg/L | 0.00511 | | 1.16% |
| Mo 202.031† | 171.5 | 0.01615 mg/L | 0.000195 | 0.03231 mg/L | 0.000390 | | 1.21% |
| Na 589.592† | 83956.2 | 12.46 mg/L | 0.094 | 24.92 mg/L | 0.188 | | 0.76% |
| Na 330.237† | 276.5 | 13.62 mg/L | 0.163 | 27.23 mg/L | 0.326 | | 1.20% |
| Ni 231.604† | 54.2 | 0.03112 mg/L | 0.001878 | 0.06225 mg/L | 0.003757 | | 6.03% |
| Pb 220.353† | 6834.7 | 0.9758 mg/L | 0.00351 | 1.952 mg/L | 0.0070 | | 0.36% |
| Sb 206.836† | 20.8 | 0.02042 mg/L | 0.007088 | 0.04083 mg/L | 0.014176 | | 34.72% |
| Se 196.026† | 11.6 | 0.00781 mg/L | 0.006191 | 0.01563 mg/L | 0.012382 | | 79.23% |
| Si 288.158† | 1728.4 | 1.398 mg/L | 0.0173 | 2.796 mg/L | 0.0346 | | 1.24% |
| Sn 189.927† | 477.5 | 0.1507 mg/L | 0.00077 | 0.3013 mg/L | 0.00154 | | 0.51% |
| Sr 421.552† | 42965.7 | 0.09438 mg/L | 0.000502 | 0.1888 mg/L | 0.00100 | | 0.53% |
| Ti 334.903† | 7029.7 | 0.3681 mg/L | 0.00166 | 0.7362 mg/L | 0.00331 | | 0.45% |
| Tl 190.801† | -5.8 | -0.00100 mg/L | 0.000966 | -0.00200 mg/L | 0.001933 | | 96.61% |
| V 292.402† | 4555.3 | 0.02927 mg/L | 0.000301 | 0.05854 mg/L | 0.000602 | | 1.03% |
| Zn 206.200† | 1046.0 | 0.4104 mg/L | 0.00483 | 0.8207 mg/L | 0.00966 | | 1.18% |

Sequence No.: 28
Sample ID: UU52 G SWC

Autosampler Location: 42
Date Collected: 5/29/2012 5:02:02 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 G SWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU52 G SWC

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1859189.8 | 97.15 | % | 0.327 | | | 0.34% |
| ScR 361.383 | 196423.5 | 99.99 | % | 0.635 | | | 0.64% |
| Ag 328.068† | 53.7 | 0.00116 | mg/L | 0.000171 | 0.00232 mg/L | 0.000341 | 14.72% |
| Al 308.215† | 9772.2 | 7.466 | mg/L | 0.0560 | 14.93 mg/L | 0.112 | 0.75% |
| As 188.979† | 102.2 | 0.07827 | mg/L | 0.004980 | 0.1565 mg/L | 0.00996 | 6.36% |
| B 249.677† | 69.1 | 0.04133 | mg/L | 0.001584 | 0.08266 mg/L | 0.003167 | 3.83% |
| Ba 233.527† | 365.7 | 0.05000 | mg/L | 0.000713 | 0.10000 mg/L | 0.001427 | 1.43% |
| Be 313.042† | 69.3 | 0.00010 | mg/L | 0.000028 | 0.00020 mg/L | 0.000055 | 27.92% |
| Ca 317.933† | 69881.1 | 6.607 | mg/L | 0.0121 | 13.21 mg/L | 0.024 | 0.18% |
| Cd 228.802† | 116.4 | 0.00225 | mg/L | 0.000053 | 0.00451 mg/L | 0.000106 | 2.34% |
| Co 228.616† | 229.2 | 0.00412 | mg/L | 0.000034 | 0.00825 mg/L | 0.000068 | 0.82% |
| Cr 267.716† | 76.9 | 0.01751 | mg/L | 0.001320 | 0.03502 mg/L | 0.002640 | 7.54% |
| Cu 324.752† | 22875.6 | 0.09564 | mg/L | 0.000234 | 0.1913 mg/L | 0.00047 | 0.24% |
| Fe 273.955† | 26116.7 | 22.04 | mg/L | 0.046 | 44.08 mg/L | 0.092 | 0.21% |
| K 766.490† | 3353.4 | 1.287 | mg/L | 0.0412 | 2.574 mg/L | 0.0824 | 3.20% |
| Mg 279.077† | 6493.0 | 6.156 | mg/L | 0.0467 | 12.31 mg/L | 0.093 | 0.76% |
| Mn 257.610† | 3763.6 | 0.09518 | mg/L | 0.000760 | 0.1904 mg/L | 0.00152 | 0.80% |
| Mo 202.031† | 295.3 | 0.02853 | mg/L | 0.000239 | 0.05706 mg/L | 0.000478 | 0.84% |
| Na 589.592† | 78083.2 | 11.59 | mg/L | 0.026 | 23.18 mg/L | 0.053 | 0.23% |
| Na 330.237† | 257.9 | 12.77 | mg/L | 0.349 | 25.54 mg/L | 0.697 | 2.73% |
| Ni 231.604† | 63.1 | 0.03511 | mg/L | 0.002510 | 0.07022 mg/L | 0.005019 | 7.15% |
| Pb 220.353† | 2687.0 | 0.3853 | mg/L | 0.00140 | 0.7706 mg/L | 0.00281 | 0.36% |
| Sb 206.836† | -8.8 | -0.00409 | mg/L | 0.005131 | -0.00819 mg/L | 0.010262 | 125.31% |
| Se 196.026† | 14.2 | 0.01200 | mg/L | 0.001714 | 0.02400 mg/L | 0.003428 | 14.29% |
| Si 288.158† | 1313.7 | 1.063 | mg/L | 0.0140 | 2.126 mg/L | 0.0279 | 1.31% |
| Sn 189.927† | 2.0 | 0.00113 | mg/L | 0.000538 | 0.00227 mg/L | 0.001077 | 47.50% |
| Sr 421.552† | 53863.2 | 0.1183 | mg/L | 0.00026 | 0.2366 mg/L | 0.00052 | 0.22% |
| Ti 334.903† | 8447.5 | 0.4424 | mg/L | 0.00222 | 0.8848 mg/L | 0.00444 | 0.50% |
| Tl 190.801† | -3.2 | -0.00075 | mg/L | 0.002595 | -0.00150 mg/L | 0.005190 | 345.77% |
| V 292.402† | 7610.7 | 0.05362 | mg/L | 0.000484 | 0.1072 mg/L | 0.00097 | 0.90% |
| Zn 206.200† | 583.0 | 0.2288 | mg/L | 0.00255 | 0.4576 mg/L | 0.00509 | 1.11% |

Sequence No.: 29
 Sample ID: UU62 MB1SPK TWC

Autosampler Location: 43
 Date Collected: 5/29/2012 5:08:03 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU62 MB1SPK TWC

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: UU62 MB1SPK TWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1838001.3 | 96.04 | % | 0.765 | | | | 0.80% |
| ScR 361.383 | 196955.8 | 100.3 | % | 0.71 | | | | 0.71% |
| Ag 328.068† | 105655.8 | 0.5145 | mg/L | 0.00336 | 0.5145 | mg/L | 0.00336 | 0.65% |
| Al 308.215† | 2804.9 | 2.135 | mg/L | 0.0108 | 2.135 | mg/L | 0.0108 | 0.51% |
| As 188.979† | 2720.8 | 2.136 | mg/L | 0.0170 | 2.136 | mg/L | 0.0170 | 0.79% |
| B 249.677† | -4.2 | -0.00424 | mg/L | 0.002051 | -0.00424 | mg/L | 0.002051 | 48.41% |
| Ba 233.527† | 13936.5 | 1.936 | mg/L | 0.0075 | 1.936 | mg/L | 0.0075 | 0.39% |
| Be 313.042† | 147647.1 | 0.5259 | mg/L | 0.00204 | 0.5259 | mg/L | 0.00204 | 0.39% |
| Ca 317.933† | 115435.7 | 10.91 | mg/L | 0.032 | 10.91 | mg/L | 0.032 | 0.29% |
| Cd 228.802† | 25715.7 | 0.5235 | mg/L | 0.00432 | 0.5235 | mg/L | 0.00432 | 0.83% |
| Co 228.616† | 23914.4 | 0.5082 | mg/L | 0.00386 | 0.5082 | mg/L | 0.00386 | 0.76% |
| Cr 267.716† | 2242.4 | 0.5075 | mg/L | 0.00518 | 0.5075 | mg/L | 0.00518 | 1.02% |
| Cu 324.752† | 125855.3 | 0.5164 | mg/L | 0.00328 | 0.5164 | mg/L | 0.00328 | 0.64% |
| Fe 273.955† | 2541.8 | 2.145 | mg/L | 0.0109 | 2.145 | mg/L | 0.0109 | 0.51% |
| K 766.490† | 28722.9 | 11.02 | mg/L | 0.036 | 11.02 | mg/L | 0.036 | 0.32% |
| Mg 279.077† | 11544.8 | 10.97 | mg/L | 0.038 | 10.97 | mg/L | 0.038 | 0.35% |
| Mn 257.610† | 19484.4 | 0.4931 | mg/L | 0.00205 | 0.4931 | mg/L | 0.00205 | 0.42% |
| Mo 202.031† | 37.0 | 0.00314 | mg/L | 0.000177 | 0.00314 | mg/L | 0.000177 | 5.65% |
| Na 589.592† | 69554.0 | 10.32 | mg/L | 0.019 | 10.32 | mg/L | 0.019 | 0.18% |
| Na 330.237† | 233.5 | 11.35 | mg/L | 0.423 | 11.35 | mg/L | 0.423 | 3.72% |
| Ni 231.604† | 911.8 | 0.4871 | mg/L | 0.00537 | 0.4871 | mg/L | 0.00537 | 1.10% |
| Pb 220.353† | 14607.4 | 2.083 | mg/L | 0.0169 | 2.083 | mg/L | 0.0169 | 0.81% |
| Sb 206.836† | -16.2 | -0.01748 | mg/L | 0.000641 | -0.01748 | mg/L | 0.000641 | 3.67% |
| Se 196.026† | 1732.2 | 2.080 | mg/L | 0.0219 | 2.080 | mg/L | 0.0219 | 1.05% |
| Si 288.158† | -1.8 | 0.00293 | mg/L | 0.006685 | 0.00293 | mg/L | 0.006685 | 227.76% |
| Sn 189.927† | -14.6 | -0.00402 | mg/L | 0.001067 | -0.00402 | mg/L | 0.001067 | 26.52% |
| Sr 421.552† | 234835.1 | 0.5158 | mg/L | 0.00107 | 0.5158 | mg/L | 0.00107 | 0.21% |
| Ti 334.903† | 6.4 | -0.00015 | mg/L | 0.000413 | -0.00015 | mg/L | 0.000413 | 273.44% |
| Tl 190.801† | 3290.4 | 2.036 | mg/L | 0.0104 | 2.036 | mg/L | 0.0104 | 0.51% |
| V 292.402† | 70857.8 | 0.5297 | mg/L | 0.00372 | 0.5297 | mg/L | 0.00372 | 0.70% |
| Zn 206.200† | 1266.2 | 0.4966 | mg/L | 0.00316 | 0.4966 | mg/L | 0.00316 | 0.64% |

Sequence No.: 30
 Sample ID: CV

Autosampler Location: 7
 Date Collected: 5/29/2012 5:14:06 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: CV

| Analyte | Mean Corrected Intensity | Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|----------|--------------------|----------|-------|
| ScA 357.253 | 1819935.2 | 95.10 % | 0.537 | | | 0.56% |
| ScR 361.383 | 192731.1 | 98.11 % | 3.367 | | | 3.43% |
| Ag 328.068† | 202766.5 | 0.9872 mg/L | 0.00282 | 0.9872 mg/L | 0.00282 | 0.29% |
| Al 308.215† | 2776.7 | 2.082 mg/L | 0.0671 | 2.082 mg/L | 0.0671 | 3.22% |
| As 188.979† | 2620.4 | 2.057 mg/L | 0.0116 | 2.057 mg/L | 0.0116 | 0.56% |
| B 249.677† | 1632.3 | 0.9739 mg/L | 0.02071 | 0.9739 mg/L | 0.02071 | 2.13% |
| Ba 233.527† | 7013.7 | 0.9741 mg/L | 0.03103 | 0.9741 mg/L | 0.03103 | 3.19% |
| Be 313.042† | 276140.7 | 0.9835 mg/L | 0.02945 | 0.9835 mg/L | 0.02945 | 2.99% |
| Ca 317.933† | 21728.0 | 2.054 mg/L | 0.0661 | 2.054 mg/L | 0.0661 | 3.22% |
| Cd 228.802† | 49491.6 | 1.011 mg/L | 0.0043 | 1.011 mg/L | 0.0043 | 0.42% |
| Co 228.616† | 45713.8 | 0.9708 mg/L | 0.00194 | 0.9708 mg/L | 0.00194 | 0.20% |
| Cr 267.716† | 4273.5 | 0.9678 mg/L | 0.03185 | 0.9678 mg/L | 0.03185 | 3.29% |
| Cu 324.752† | 251802.7 | 1.033 mg/L | 0.0012 | 1.033 mg/L | 0.0012 | 0.12% |
| Fe 273.955† | 2498.4 | 2.108 mg/L | 0.0698 | 2.108 mg/L | 0.0698 | 3.31% |
| K 766.490† | 54853.7 | 21.05 mg/L | 0.646 | 21.05 mg/L | 0.646 | 3.07% |
| Mg 279.077† | 2240.5 | 2.132 mg/L | 0.0609 | 2.132 mg/L | 0.0609 | 2.86% |
| Mn 257.610† | 38981.0 | 0.9860 mg/L | 0.03030 | 0.9860 mg/L | 0.03030 | 3.07% |
| Mo 202.031† | 10377.1 | 1.025 mg/L | 0.0071 | 1.025 mg/L | 0.0071 | 0.69% |
| Na 589.592† | 340382.5 | 50.51 mg/L | 1.470 | 50.51 mg/L | 1.470 | 2.91% |
| Na 330.237† | 1081.0 | 53.44 mg/L | 1.599 | 53.44 mg/L | 1.599 | 2.99% |
| Ni 231.604† | 1854.4 | 0.9932 mg/L | 0.03223 | 0.9932 mg/L | 0.03223 | 3.24% |
| Pb 220.353† | 13771.2 | 1.965 mg/L | 0.0119 | 1.965 mg/L | 0.0119 | 0.61% |
| Sb 206.836† | 2791.6 | 2.259 mg/L | 0.0132 | 2.259 mg/L | 0.0132 | 0.58% |
| Se 196.026† | 1662.7 | 1.996 mg/L | 0.0099 | 1.996 mg/L | 0.0099 | 0.50% |
| Si 288.158† | 2893.2 | 2.345 mg/L | 0.0838 | 2.345 mg/L | 0.0838 | 3.57% |
| Sn 189.927† | 3076.1 | 0.9687 mg/L | 0.00546 | 0.9687 mg/L | 0.00546 | 0.56% |
| Sr 421.552† | 456366.3 | 1.002 mg/L | 0.0259 | 1.002 mg/L | 0.0259 | 2.59% |
| Ti 334.903† | 20222.2 | 1.058 mg/L | 0.0310 | 1.058 mg/L | 0.0310 | 2.93% |
| Tl 190.801† | 3222.5 | 1.987 mg/L | 0.0145 | 1.987 mg/L | 0.0145 | 0.73% |
| V 292.402† | 134063.9 | 1.008 mg/L | 0.0033 | 1.008 mg/L | 0.0033 | 0.32% |
| Zn 206.200† | 2647.0 | 1.037 mg/L | 0.0331 | 1.037 mg/L | 0.0331 | 3.19% |

Sequence No.: 31
Sample ID: CB

Autosampler Location: 1
Date Collected: 5/29/2012 5:19:54 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
| | Intensity | Conc. | | | Conc. | Units | |
| ScA 357.253 | 1859153.4 | 97.15 | % | 0.560 | | | 0.58% |
| ScR 361.383 | 191092.7 | 97.28 | % | 1.341 | | | 1.38% |
| Ag 328.068† | 43.7 | 0.00021 | mg/L | 0.000090 | 0.00021 | mg/L | 0.000090 42.26% |
| Al 308.215† | -0.4 | -0.00033 | mg/L | 0.007737 | -0.00033 | mg/L | 0.007737 >999.9% |
| As 188.979† | -0.5 | -0.00042 | mg/L | 0.000378 | -0.00042 | mg/L | 0.000378 89.59% |
| B 249.677† | 1.5 | 0.00087 | mg/L | 0.001362 | 0.00087 | mg/L | 0.001362 155.93% |
| Ba 233.527† | 2.3 | 0.00032 | mg/L | 0.000327 | 0.00032 | mg/L | 0.000327 101.95% |
| Be 313.042† | 49.3 | 0.00018 | mg/L | 0.000075 | 0.00018 | mg/L | 0.000075 42.74% |
| Ca 317.933† | 14.0 | 0.00132 | mg/L | 0.000908 | 0.00132 | mg/L | 0.000908 68.80% |
| Cd 228.802† | -3.0 | -0.00006 | mg/L | 0.000133 | -0.00006 | mg/L | 0.000133 213.36% |
| Co 228.616† | 0.9 | 0.00002 | mg/L | 0.000134 | 0.00002 | mg/L | 0.000134 779.66% |
| Cr 267.716† | -3.3 | -0.00074 | mg/L | 0.000575 | -0.00074 | mg/L | 0.000575 77.80% |
| Cu 324.752† | -29.4 | -0.00012 | mg/L | 0.000263 | -0.00012 | mg/L | 0.000263 217.79% |
| Fe 273.955† | 1.1 | 0.00097 | mg/L | 0.001733 | 0.00097 | mg/L | 0.001733 178.84% |
| K 766.490† | 98.4 | 0.03777 | mg/L | 0.012731 | 0.03777 | mg/L | 0.012731 33.71% |
| Mg 279.077† | -2.6 | -0.00243 | mg/L | 0.001327 | -0.00243 | mg/L | 0.001327 54.66% |
| Mn 257.610† | 9.1 | 0.00023 | mg/L | 0.000062 | 0.00023 | mg/L | 0.000062 26.93% |
| Mo 202.031† | 4.8 | 0.00048 | mg/L | 0.000441 | 0.00048 | mg/L | 0.000441 92.67% |
| Na 589.592† | 192.7 | 0.02860 | mg/L | 0.007451 | 0.02860 | mg/L | 0.007451 26.06% |
| Na 330.237† | 3.4 | 0.1693 | mg/L | 0.17848 | 0.1693 | mg/L | 0.17848 105.42% |
| Ni 231.604† | -6.2 | -0.00331 | mg/L | 0.001906 | -0.00331 | mg/L | 0.001906 57.57% |
| Pb 220.353† | 7.0 | 0.00099 | mg/L | 0.000662 | 0.00099 | mg/L | 0.000662 66.59% |
| Sb 206.836† | -2.7 | -0.00213 | mg/L | 0.002808 | -0.00213 | mg/L | 0.002808 132.05% |
| Se 196.026† | -0.0 | -0.00001 | mg/L | 0.005595 | -0.00001 | mg/L | 0.005595 >999.9% |
| Si 288.158† | 1.9 | 0.00153 | mg/L | 0.004323 | 0.00153 | mg/L | 0.004323 282.93% |
| Sn 189.927† | 3.6 | 0.00114 | mg/L | 0.000278 | 0.00114 | mg/L | 0.000278 24.37% |
| Sr 421.552† | 88.2 | 0.00019 | mg/L | 0.000143 | 0.00019 | mg/L | 0.000143 73.85% |
| Ti 334.903† | 18.9 | 0.00099 | mg/L | 0.000687 | 0.00099 | mg/L | 0.000687 69.39% |
| Tl 190.801† | 4.9 | 0.00308 | mg/L | 0.000442 | 0.00308 | mg/L | 0.000442 14.37% |
| V 292.402† | -4.8 | -0.00004 | mg/L | 0.000183 | -0.00004 | mg/L | 0.000183 473.71% |
| Zn 206.200† | -3.2 | -0.00123 | mg/L | 0.000676 | -0.00123 | mg/L | 0.000676 54.79% |

Sequence No.: 32
 Sample ID: UU94 MB WMN

Autosampler Location: 44
 Date Collected: 5/29/2012 5:25:52 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 MB WMN

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: UU94 MB WMN

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1899128.2 | 99.24 | % | 0.142 | | | | 0.14% |
| ScR 361.383 | 202409.1 | 103.0 | % | 0.97 | | | | 0.94% |
| Ag 328.068† | -12.8 | -0.00006 | mg/L | 0.000234 | -0.00006 | mg/L | 0.000234 | 376.79% |
| Al 308.215† | 2.1 | 0.00161 | mg/L | 0.007662 | 0.00161 | mg/L | 0.007662 | 475.89% |
| As 188.979† | -1.2 | -0.00092 | mg/L | 0.002390 | -0.00092 | mg/L | 0.002390 | 258.42% |
| B 249.677† | 6.6 | 0.00393 | mg/L | 0.002847 | 0.00393 | mg/L | 0.002847 | 72.35% |
| Ba 233.527† | 4.5 | 0.00063 | mg/L | 0.000224 | 0.00063 | mg/L | 0.000224 | 35.65% |
| Be 313.042† | 10.6 | 0.00004 | mg/L | 0.000032 | 0.00004 | mg/L | 0.000032 | 84.66% |
| Ca 317.933† | 61.7 | 0.00584 | mg/L | 0.000893 | 0.00584 | mg/L | 0.000893 | 15.30% |
| Cd 228.802† | -4.2 | -0.00008 | mg/L | 0.000102 | -0.00008 | mg/L | 0.000102 | 122.69% |
| Co 228.616† | 14.3 | 0.00030 | mg/L | 0.000197 | 0.00030 | mg/L | 0.000197 | 65.14% |
| Cr 267.716† | -8.6 | -0.00195 | mg/L | 0.001276 | -0.00195 | mg/L | 0.001276 | 65.57% |
| Cu 324.752† | 7.7 | 0.00003 | mg/L | 0.000105 | 0.00003 | mg/L | 0.000105 | 328.49% |
| Fe 273.955† | 3.3 | 0.00277 | mg/L | 0.001305 | 0.00277 | mg/L | 0.001305 | 47.09% |
| K 766.490† | 32.4 | 0.01244 | mg/L | 0.016086 | 0.01244 | mg/L | 0.016086 | 129.35% |
| Mg 279.077† | 1.0 | 0.00091 | mg/L | 0.003664 | 0.00091 | mg/L | 0.003664 | 402.25% |
| Mn 257.610† | -8.3 | -0.00021 | mg/L | 0.000126 | -0.00021 | mg/L | 0.000126 | 60.41% |
| Mo 202.031† | 2.2 | 0.00022 | mg/L | 0.000440 | 0.00022 | mg/L | 0.000440 | 200.56% |
| Na 589.592† | 536.5 | 0.07963 | mg/L | 0.013499 | 0.07963 | mg/L | 0.013499 | 16.95% |
| Na 330.237† | 12.9 | 0.6376 | mg/L | 0.51257 | 0.6376 | mg/L | 0.51257 | 80.38% |
| Ni 231.604† | 7.4 | 0.00396 | mg/L | 0.002285 | 0.00396 | mg/L | 0.002285 | 57.67% |
| Pb 220.353† | -6.5 | -0.00094 | mg/L | 0.001340 | -0.00094 | mg/L | 0.001340 | 142.98% |
| Sb 206.836† | -3.2 | -0.00255 | mg/L | 0.003603 | -0.00255 | mg/L | 0.003603 | 141.17% |
| Se 196.026† | 1.6 | 0.00195 | mg/L | 0.000692 | 0.00195 | mg/L | 0.000692 | 35.41% |
| Si 288.158† | -3.3 | -0.00264 | mg/L | 0.006587 | -0.00264 | mg/L | 0.006587 | 249.60% |
| Sn 189.927† | -2.8 | -0.00088 | mg/L | 0.000722 | -0.00088 | mg/L | 0.000722 | 82.37% |
| Sr 421.552† | -19.0 | -0.00004 | mg/L | 0.000149 | -0.00004 | mg/L | 0.000149 | 356.34% |
| Ti 334.903† | 10.6 | 0.00056 | mg/L | 0.000700 | 0.00056 | mg/L | 0.000700 | 125.87% |
| Tl 190.801† | -2.2 | -0.00140 | mg/L | 0.001887 | -0.00140 | mg/L | 0.001887 | 135.09% |
| V 292.402† | -14.4 | -0.00012 | mg/L | 0.000232 | -0.00012 | mg/L | 0.000232 | 193.34% |
| Zn 206.200† | 9.7 | 0.00380 | mg/L | 0.001224 | 0.00380 | mg/L | 0.001224 | 32.23% |

Sequence No.: 33

Sample ID: UU94 B WMN

Autosampler Location: 45

Date Collected: 5/29/2012 5:31:52 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 B WMN

| | | |
|---------|---------------|------------|
| Analyte | Back Pressure | Flow |
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU94 B WMN

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1887108.2 | 98.61 | % | 0.623 | | | | 0.63% |
| ScR 361.383 | 207644.6 | 105.7 | % | 2.08 | | | | 1.97% |
| Ag 328.068† | -61.9 | 0.00005 | mg/L | 0.000104 | 0.00005 | mg/L | 0.000104 | 223.04% |
| Al 308.215† | 9103.0 | 6.955 | mg/L | 0.2050 | 6.955 | mg/L | 0.2050 | 2.95% |
| As 188.979† | 30.8 | 0.02257 | mg/L | 0.002069 | 0.02257 | mg/L | 0.002069 | 9.17% |
| B 249.677† | 161.1 | 0.09628 | mg/L | 0.001999 | 0.09628 | mg/L | 0.001999 | 2.08% |
| Ba 233.527† | 369.5 | 0.05098 | mg/L | 0.001431 | 0.05098 | mg/L | 0.001431 | 2.81% |
| Be 313.042† | 129.1 | 0.00030 | mg/L | 0.000069 | 0.00030 | mg/L | 0.000069 | 22.75% |
| Ca 317.933† | 126197.1 | 11.93 | mg/L | 0.408 | 11.93 | mg/L | 0.408 | 3.42% |
| Cd 228.802† | 7.5 | 0.00012 | mg/L | 0.000019 | 0.00012 | mg/L | 0.000019 | 15.87% |
| Co 228.616† | 541.9 | 0.01140 | mg/L | 0.000099 | 0.01140 | mg/L | 0.000099 | 0.87% |
| Cr 267.716† | 44.4 | 0.00985 | mg/L | 0.001034 | 0.00985 | mg/L | 0.001034 | 10.50% |
| Cu 324.752† | 15720.4 | 0.06526 | mg/L | 0.000532 | 0.06526 | mg/L | 0.000532 | 0.82% |
| Fe 273.955† | 10953.9 | 9.244 | mg/L | 0.3441 | 9.244 | mg/L | 0.3441 | 3.72% |
| K 766.490† | 9445.4 | 3.625 | mg/L | 0.1549 | 3.625 | mg/L | 0.1549 | 4.27% |
| Mg 279.077† | 5663.8 | 5.376 | mg/L | 0.1763 | 5.376 | mg/L | 0.1763 | 3.28% |
| Mn 257.610† | 8907.1 | 0.2251 | mg/L | 0.00712 | 0.2251 | mg/L | 0.00712 | 3.16% |
| Mo 202.031† | 248.9 | 0.02400 | mg/L | 0.000522 | 0.02400 | mg/L | 0.000522 | 2.17% |
| Na 589.592† | 419965.0 | 62.32 | mg/L | 1.355 | 62.32 | mg/L | 1.355 | 2.17% |
| Na 330.237† | 1352.0 | 66.93 | mg/L | 2.653 | 66.93 | mg/L | 2.653 | 3.96% |
| Ni 231.604† | 47.3 | 0.02586 | mg/L | 0.001417 | 0.02586 | mg/L | 0.001417 | 5.48% |
| Pb 220.353† | 50.8 | 0.00942 | mg/L | 0.000812 | 0.00942 | mg/L | 0.000812 | 8.62% |
| Sb 206.836† | -10.9 | -0.00636 | mg/L | 0.003234 | -0.00636 | mg/L | 0.003234 | 50.84% |
| Se 196.026† | 7.9 | 0.00579 | mg/L | 0.001213 | 0.00579 | mg/L | 0.001213 | 20.96% |
| Si 288.158† | 36722.6 | 29.68 | mg/L | 0.932 | 29.68 | mg/L | 0.932 | 3.14% |
| Sn 189.927† | -15.8 | -0.00466 | mg/L | 0.000752 | -0.00466 | mg/L | 0.000752 | 16.14% |
| Sr 421.552† | 52431.5 | 0.1152 | mg/L | 0.00267 | 0.1152 | mg/L | 0.00267 | 2.32% |
| Ti 334.903† | 1340.8 | 0.06984 | mg/L | 0.001578 | 0.06984 | mg/L | 0.001578 | 2.26% |
| Tl 190.801† | -3.7 | -0.00228 | mg/L | 0.002652 | -0.00228 | mg/L | 0.002652 | 116.54% |
| V 292.402† | 8571.7 | 0.06266 | mg/L | 0.000546 | 0.06266 | mg/L | 0.000546 | 0.87% |
| Zn 206.200† | 164.2 | 0.06466 | mg/L | 0.001080 | 0.06466 | mg/L | 0.001080 | 1.67% |

Sequence No.: 34
 Sample ID: UU94 C WMN

Autosampler Location: 46
 Date Collected: 5/29/2012 5:38:10 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 C WMN

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: UU94 C WMN

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1890300.8 | 98.78 % | 0.652 | | | 0.66% |
| ScR 361.383 | 201610.5 | 102.6 % | 1.41 | | | 1.37% |
| Ag 328.068† | -25.9 | -0.00002 mg/L | 0.000087 | -0.00002 mg/L | 0.000087 | 477.16% |
| Al 308.215† | 4339.9 | 3.314 mg/L | 0.0344 | 3.314 mg/L | 0.0344 | 1.04% |
| As 188.979† | 23.6 | 0.01806 mg/L | 0.001918 | 0.01806 mg/L | 0.001918 | 10.62% |
| B 249.677† | 82.6 | 0.04937 mg/L | 0.002092 | 0.04937 mg/L | 0.002092 | 4.24% |
| Ba 233.527† | 48.3 | 0.00659 mg/L | 0.000262 | 0.00659 mg/L | 0.000262 | 3.98% |
| Be 313.042† | 129.8 | 0.00013 mg/L | 0.000054 | 0.00013 mg/L | 0.000054 | 40.51% |
| Ca 317.933† | 30065.5 | 2.842 mg/L | 0.0011 | 2.842 mg/L | 0.0011 | 0.04% |
| Cd 228.802† | -14.1 | -0.00032 mg/L | 0.000055 | -0.00032 mg/L | 0.000055 | 17.31% |
| Co 228.616† | 37.1 | 0.00071 mg/L | 0.000162 | 0.00071 mg/L | 0.000162 | 22.93% |
| Cr 267.716† | 34.0 | 0.00766 mg/L | 0.000653 | 0.00766 mg/L | 0.000653 | 8.53% |
| Cu 324.752† | 3238.0 | 0.01343 mg/L | 0.000537 | 0.01343 mg/L | 0.000537 | 4.00% |
| Fe 273.955† | 2252.2 | 1.901 mg/L | 0.0314 | 1.901 mg/L | 0.0314 | 1.65% |
| K 766.490† | 6601.3 | 2.533 mg/L | 0.0304 | 2.533 mg/L | 0.0304 | 1.20% |
| Mg 279.077† | 778.7 | 0.7387 mg/L | 0.01409 | 0.7387 mg/L | 0.01409 | 1.91% |
| Mn 257.610† | 481.5 | 0.01215 mg/L | 0.000235 | 0.01215 mg/L | 0.000235 | 1.93% |
| Mo 202.031† | 154.3 | 0.01509 mg/L | 0.000180 | 0.01509 mg/L | 0.000180 | 1.19% |
| Na 589.592† | 877458.8 | 130.2 mg/L | 1.77 | 130.2 mg/L | 1.77 | 1.36% |
| Na 330.237† | 2821.0 | 139.8 mg/L | 1.42 | 139.8 mg/L | 1.42 | 1.01% |
| Ni 231.604† | 16.9 | 0.00918 mg/L | 0.000609 | 0.00918 mg/L | 0.000609 | 6.63% |
| Pb 220.353† | -2.6 | 0.00070 mg/L | 0.000965 | 0.00070 mg/L | 0.000965 | 138.15% |
| Sb 206.836† | -8.3 | -0.00537 mg/L | 0.004067 | -0.00537 mg/L | 0.004067 | 75.73% |
| Se 196.026† | 12.5 | 0.01375 mg/L | 0.008770 | 0.01375 mg/L | 0.008770 | 63.79% |
| Si 288.158† | 78668.4 | 63.57 mg/L | 0.547 | 63.57 mg/L | 0.547 | 0.86% |
| Sn 189.927† | -12.2 | -0.00377 mg/L | 0.001044 | -0.00377 mg/L | 0.001044 | 27.72% |
| Sr 421.552† | 8547.8 | 0.01878 mg/L | 0.000026 | 0.01878 mg/L | 0.000026 | 0.14% |
| Ti 334.903† | 953.2 | 0.04984 mg/L | 0.001000 | 0.04984 mg/L | 0.001000 | 2.01% |
| Tl 190.801† | -2.2 | -0.00199 mg/L | 0.001143 | -0.00199 mg/L | 0.001143 | 57.52% |
| V 292.402† | 17806.2 | 0.1321 mg/L | 0.00182 | 0.1321 mg/L | 0.00182 | 1.38% |
| Zn 206.200† | -1.3 | -0.00044 mg/L | 0.000587 | -0.00044 mg/L | 0.000587 | 132.88% |

Sequence No.: 35

Sample ID: UU94 ADUP WMN

Autosampler Location: 47

Date Collected: 5/29/2012 5:44:29 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 ADUP WMN

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU94 ADUP WMN

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|---------------|--------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1906596.5 | 99.63 % | % | 0.708 | | | 0.71% |
| ScR 361.383 | 206043.0 | 104.9 % | % | 0.81 | | | 0.77% |
| Ag 328.068† | -104.3 | -0.00016 mg/L | mg/L | 0.000314 | -0.00016 mg/L | 0.000314 | 194.67% |
| Al 308.215† | 9675.5 | 7.391 mg/L | mg/L | 0.0912 | 7.391 mg/L | 0.0912 | 1.23% |
| As 188.979† | 11.1 | 0.00733 mg/L | mg/L | 0.002349 | 0.00733 mg/L | 0.002349 | 32.04% |
| B 249.677† | 83.6 | 0.04999 mg/L | mg/L | 0.003571 | 0.04999 mg/L | 0.003571 | 7.14% |
| Ba 233.527† | 367.0 | 0.05064 mg/L | mg/L | 0.000695 | 0.05064 mg/L | 0.000695 | 1.37% |
| Be 313.042† | 399.4 | 0.00091 mg/L | mg/L | 0.000058 | 0.00091 mg/L | 0.000058 | 6.38% |
| Ca 317.933† | 91750.7 | 8.674 mg/L | mg/L | 0.1388 | 8.674 mg/L | 0.1388 | 1.60% |
| Cd 228.802† | -7.8 | -0.00017 mg/L | mg/L | 0.000069 | -0.00017 mg/L | 0.000069 | 40.20% |
| Co 228.616† | 230.4 | 0.00474 mg/L | mg/L | 0.000077 | 0.00474 mg/L | 0.000077 | 1.64% |
| Cr 267.716† | 66.1 | 0.01487 mg/L | mg/L | 0.001007 | 0.01487 mg/L | 0.001007 | 6.77% |
| Cu 324.752† | 6866.0 | 0.02879 mg/L | mg/L | 0.000185 | 0.02879 mg/L | 0.000185 | 0.64% |
| Fe 273.955† | 8858.7 | 7.476 mg/L | mg/L | 0.0903 | 7.476 mg/L | 0.0903 | 1.21% |
| K 766.490† | 8547.8 | 3.280 mg/L | mg/L | 0.0456 | 3.280 mg/L | 0.0456 | 1.39% |
| Mg 279.077† | 3675.0 | 3.487 mg/L | mg/L | 0.0240 | 3.487 mg/L | 0.0240 | 0.69% |
| Mn 257.610† | 1964.7 | 0.04961 mg/L | mg/L | 0.000387 | 0.04961 mg/L | 0.000387 | 0.78% |
| Mo 202.031† | 129.8 | 0.01235 mg/L | mg/L | 0.000254 | 0.01235 mg/L | 0.000254 | 2.06% |
| Na 589.592† | 720101.7 | 106.9 mg/L | mg/L | 0.63 | 106.9 mg/L | 0.63 | 0.59% |
| Na 330.237† | 2333.0 | 115.6 mg/L | mg/L | 2.23 | 115.6 mg/L | 2.23 | 1.93% |
| Ni 231.604† | 29.9 | 0.01645 mg/L | mg/L | 0.000217 | 0.01645 mg/L | 0.000217 | 1.32% |
| Pb 220.353† | 7.3 | 0.00340 mg/L | mg/L | 0.000776 | 0.00340 mg/L | 0.000776 | 22.80% |
| Sb 206.836† | -14.5 | -0.00876 mg/L | mg/L | 0.002359 | -0.00876 mg/L | 0.002359 | 26.93% |
| Se 196.026† | 8.4 | 0.00673 mg/L | mg/L | 0.008614 | 0.00673 mg/L | 0.008614 | 127.99% |
| Si 288.158† | 47585.8 | 38.46 mg/L | mg/L | 0.477 | 38.46 mg/L | 0.477 | 1.24% |
| Sn 189.927† | -13.9 | -0.00415 mg/L | mg/L | 0.001151 | -0.00415 mg/L | 0.001151 | 27.72% |
| Sr 421.552† | 36654.7 | 0.08051 mg/L | mg/L | 0.000725 | 0.08051 mg/L | 0.000725 | 0.90% |
| Ti 334.903† | 1698.5 | 0.08870 mg/L | mg/L | 0.000422 | 0.08870 mg/L | 0.000422 | 0.48% |
| Tl 190.801† | -0.7 | -0.00106 mg/L | mg/L | 0.002722 | -0.00106 mg/L | 0.002722 | 257.75% |
| V 292.402† | 27645.2 | 0.2045 mg/L | mg/L | 0.00228 | 0.2045 mg/L | 0.00228 | 1.11% |
| Zn 206.200† | 63.4 | 0.02506 mg/L | mg/L | 0.000290 | 0.02506 mg/L | 0.000290 | 1.16% |

Sequence No.: 36
Sample ID: UU94 A WMN

Autosampler Location: 48
Date Collected: 5/29/2012 5:50:49 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 A WMN

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU94 A WMN

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1892723.9 | 98.90 | % | 1.066 | | | 1.08% |
| ScR 361.383 | 203049.1 | 103.4 | % | 0.64 | | | 0.62% |
| Ag 328.068† | -107.2 | -0.00017 | mg/L | 0.000151 | -0.00017 mg/L | 0.000151 | 89.59% |
| Al 308.215† | 9950.4 | 7.601 | mg/L | 0.0608 | 7.601 mg/L | 0.0608 | 0.80% |
| As 188.979† | 4.8 | 0.00229 | mg/L | 0.001627 | 0.00229 mg/L | 0.001627 | 71.12% |
| B 249.677† | 88.0 | 0.05262 | mg/L | 0.004834 | 0.05262 mg/L | 0.004834 | 9.19% |
| Ba 233.527† | 368.0 | 0.05077 | mg/L | 0.000707 | 0.05077 mg/L | 0.000707 | 1.39% |
| Be 313.042† | 422.4 | 0.00100 | mg/L | 0.000032 | 0.00100 mg/L | 0.000032 | 3.17% |
| Ca 317.933† | 92804.0 | 8.774 | mg/L | 0.0558 | 8.774 mg/L | 0.0558 | 0.64% |
| Cd 228.802† | -8.5 | -0.00018 | mg/L | 0.000055 | -0.00018 mg/L | 0.000055 | 31.18% |
| Co 228.616† | 234.3 | 0.00482 | mg/L | 0.000051 | 0.00482 mg/L | 0.000051 | 1.06% |
| Cr 267.716† | 64.3 | 0.01447 | mg/L | 0.000452 | 0.01447 mg/L | 0.000452 | 3.13% |
| Cu 324.752† | 6981.1 | 0.02928 | mg/L | 0.000432 | 0.02928 mg/L | 0.000432 | 1.47% |
| Fe 273.955† | 9064.0 | 7.650 | mg/L | 0.0189 | 7.650 mg/L | 0.0189 | 0.25% |
| K 766.490† | 8636.6 | 3.314 | mg/L | 0.0216 | 3.314 mg/L | 0.0216 | 0.65% |
| Mg 279.077† | 3719.2 | 3.529 | mg/L | 0.0096 | 3.529 mg/L | 0.0096 | 0.27% |
| Mn 257.610† | 1995.4 | 0.05039 | mg/L | 0.000315 | 0.05039 mg/L | 0.000315 | 0.63% |
| Mo 202.031† | 133.5 | 0.01270 | mg/L | 0.000237 | 0.01270 mg/L | 0.000237 | 1.87% |
| Na 589.592† | 718597.2 | 106.6 | mg/L | 0.24 | 106.6 mg/L | 0.24 | 0.23% |
| Na 330.237† | 2336.5 | 115.7 | mg/L | 1.59 | 115.7 mg/L | 1.59 | 1.37% |
| Ni 231.604† | 29.8 | 0.01640 | mg/L | 0.002780 | 0.01640 mg/L | 0.002780 | 16.96% |
| Pb 220.353† | 2.4 | 0.00277 | mg/L | 0.000462 | 0.00277 mg/L | 0.000462 | 16.66% |
| Sb 206.836† | -17.6 | -0.01122 | mg/L | 0.002843 | -0.01122 mg/L | 0.002843 | 25.34% |
| Se 196.026† | 10.0 | 0.00852 | mg/L | 0.005691 | 0.00852 mg/L | 0.005691 | 66.83% |
| Si 288.158† | 47836.1 | 38.66 | mg/L | 0.173 | 38.66 mg/L | 0.173 | 0.45% |
| Sn 189.927† | -12.4 | -0.00368 | mg/L | 0.000208 | -0.00368 mg/L | 0.000208 | 5.64% |
| Sr 421.552† | 36973.7 | 0.08122 | mg/L | 0.000310 | 0.08122 mg/L | 0.000310 | 0.38% |
| Ti 334.903† | 1707.4 | 0.08916 | mg/L | 0.001611 | 0.08916 mg/L | 0.001611 | 1.81% |
| Tl 190.801† | -3.8 | -0.00297 | mg/L | 0.000531 | -0.00297 mg/L | 0.000531 | 17.90% |
| V 292.402† | 27517.1 | 0.2035 | mg/L | 0.00294 | 0.2035 mg/L | 0.00294 | 1.44% |
| Zn 206.200† | 64.2 | 0.02535 | mg/L | 0.001590 | 0.02535 mg/L | 0.001590 | 6.27% |

Sequence No.: 37
Sample ID: UU94 ASPK WMN

Autosampler Location: 49
Date Collected: 5/29/2012 5:57:10 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 ASPK WMN

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

new

Mean Data: UU94 ASPK WMN

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|--------|
| ScA 357.253 | 1893351.2 | 98.94 | % | 0.518 | | | 0.52% |
| ScR 361.383 | 206476.4 | 105.1 | % | 0.76 | | | 0.72% |
| Ag 328.068† | 84407.1 | 0.4114 | mg/L | 0.00390 | 0.4114 mg/L | 0.00390 | 0.95% |
| Al 308.215† | 11866.8 | 9.058 | mg/L | 0.0680 | 9.058 mg/L | 0.0680 | 0.75% |
| As 188.979† | 2832.3 | 2.222 | mg/L | 0.0082 | 2.222 mg/L | 0.0082 | 0.37% |
| B 249.677† | 85.7 | 0.04953 | mg/L | 0.000877 | 0.04953 mg/L | 0.000877 | 1.77% |
| Ba 233.527† | 14240.7 | 1.978 | mg/L | 0.0154 | 1.978 mg/L | 0.0154 | 0.78% |
| Be 313.042† | 147535.7 | 0.5250 | mg/L | 0.00179 | 0.5250 mg/L | 0.00179 | 0.34% |
| Ca 317.933† | 207748.2 | 19.64 | mg/L | 0.064 | 19.64 mg/L | 0.064 | 0.33% |
| Cd 228.802† | 26361.4 | 0.5366 | mg/L | 0.00578 | 0.5366 mg/L | 0.00578 | 1.08% |
| Co 228.616† | 24083.0 | 0.5116 | mg/L | 0.00645 | 0.5116 mg/L | 0.00645 | 1.26% |
| Cr 267.716† | 2206.7 | 0.4993 | mg/L | 0.00494 | 0.4993 mg/L | 0.00494 | 0.99% |
| Cu 324.752† | 135738.0 | 0.5576 | mg/L | 0.00582 | 0.5576 mg/L | 0.00582 | 1.04% |
| Fe 273.955† | 10737.8 | 9.062 | mg/L | 0.0750 | 9.062 mg/L | 0.0750 | 0.83% |
| K 766.490† | 36805.5 | 14.12 | mg/L | 0.051 | 14.12 mg/L | 0.051 | 0.36% |
| Mg 279.077† | 14749.3 | 14.01 | mg/L | 0.112 | 14.01 mg/L | 0.112 | 0.80% |
| Mn 257.610† | 21309.6 | 0.5392 | mg/L | 0.00422 | 0.5392 mg/L | 0.00422 | 0.78% |
| Mo 202.031† | 153.6 | 0.01419 | mg/L | 0.000317 | 0.01419 mg/L | 0.000317 | 2.23% |
| Na 589.592† | 763075.5 | 113.2 | mg/L | 0.13 | 113.2 mg/L | 0.13 | 0.11% |
| Na 330.237† | 2416.0 | 119.5 | mg/L | 0.69 | 119.5 mg/L | 0.69 | 0.58% |
| Ni 231.604† | 923.6 | 0.4938 | mg/L | 0.00345 | 0.4938 mg/L | 0.00345 | 0.70% |
| Pb 220.353† | 14718.0 | 2.101 | mg/L | 0.0252 | 2.101 mg/L | 0.0252 | 1.20% |
| Sb 206.836† | -21.7 | -0.01893 | mg/L | 0.002391 | -0.01893 mg/L | 0.002391 | 12.63% |
| Se 196.026† | 1942.3 | 2.330 | mg/L | 0.0103 | 2.330 mg/L | 0.0103 | 0.44% |
| Si 288.158† | 47055.5 | 38.03 | mg/L | 0.123 | 38.03 mg/L | 0.123 | 0.32% |
| Sn 189.927† | -30.5 | -0.00880 | mg/L | 0.000834 | -0.00880 mg/L | 0.000834 | 9.48% |
| Sr 421.552† | 270894.6 | 0.5950 | mg/L | 0.00267 | 0.5950 mg/L | 0.00267 | 0.45% |
| Ti 334.903† | 1617.4 | 0.08397 | mg/L | 0.000911 | 0.08397 mg/L | 0.000911 | 1.09% |
| Tl 190.801† | 3280.5 | 2.030 | mg/L | 0.0043 | 2.030 mg/L | 0.0043 | 0.21% |
| V 292.402† | 96129.4 | 0.7164 | mg/L | 0.00892 | 0.7164 mg/L | 0.00892 | 1.24% |
| Zn 206.200† | 1370.6 | 0.5377 | mg/L | 0.00632 | 0.5377 mg/L | 0.00632 | 1.18% |

70.6

57.6

Sequence No.: 38
Sample ID: UU52 H SWC

Autosampler Location: 50
Date Collected: 5/29/2012 6:03:18 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 H SWC

Analyte Back Pressure Flow
All 182.0 kPa 0.55 L/min

Mean Data: UU52 H SWC

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
| | Intensity | Conc. | | | Conc. | Units | |
| ScA 357.253 | 1871682.6 | 97.80 | % | 0.218 | | | 0.22% |
| ScR 361.383 | 198815.3 | 101.2 | % | 0.69 | | | 0.68% |
| Ag 328.068† | -252.4 | 0.00146 | mg/L | 0.000195 | 0.00292 | mg/L | 0.000390 13.32% |
| Al 308.215† | 34904.2 | 26.67 | mg/L | 0.095 | 53.34 | mg/L | 0.190 0.36% |
| As 188.979† | 76.5 | 0.05465 | mg/L | 0.001976 | 0.1093 | mg/L | 0.00395 3.62% |
| B 249.677† | 151.1 | 0.09028 | mg/L | 0.002876 | 0.1806 | mg/L | 0.00575 3.19% |
| Ba 233.527† | 495.6 | 0.06643 | mg/L | 0.000769 | 0.1329 | mg/L | 0.00154 1.16% |
| Be 313.042† | 158.9 | 0.00032 | mg/L | 0.000036 | 0.00064 | mg/L | 0.000072 11.20% |
| Ca 317.933† | 131322.8 | 12.42 | mg/L | 0.007 | 24.83 | mg/L | 0.015 0.06% |
| Cd 228.802† | 329.2 | 0.00666 | mg/L | 0.000038 | 0.01332 | mg/L | 0.000076 0.57% |
| Co 228.616† | 862.2 | 0.01543 | mg/L | 0.000113 | 0.03086 | mg/L | 0.000226 0.73% |
| Cr 267.716† | 308.1 | 0.07010 | mg/L | 0.001755 | 0.1402 | mg/L | 0.00351 2.50% |
| Cu 324.752† | 46627.1 | 0.1967 | mg/L | 0.00149 | 0.3935 | mg/L | 0.00297 0.76% |
| Fe 273.955† | 79704.6 | 67.27 | mg/L | 0.442 | 134.5 | mg/L | 0.88 0.66% |
| K 766.490† | 10438.8 | 4.006 | mg/L | 0.0194 | 8.012 | mg/L | 0.0388 0.48% |
| Mg 279.077† | 19214.2 | 18.21 | mg/L | 0.045 | 36.43 | mg/L | 0.090 0.25% |
| Mn 257.610† | 22478.2 | 0.5682 | mg/L | 0.00146 | 1.136 | mg/L | 0.0029 0.26% |
| Mo 202.031† | 217.5 | 0.01961 | mg/L | 0.000337 | 0.03922 | mg/L | 0.000674 1.72% |
| Na 589.592† | 146337.6 | 21.72 | mg/L | 0.080 | 43.43 | mg/L | 0.160 0.37% |
| Na 330.237† | 475.2 | 23.53 | mg/L | 0.462 | 47.05 | mg/L | 0.924 1.96% |
| Ni 231.604† | 137.0 | 0.07735 | mg/L | 0.001586 | 0.1547 | mg/L | 0.00317 2.05% |
| Pb 220.353† | 4231.1 | 0.6115 | mg/L | 0.00318 | 1.223 | mg/L | 0.0064 0.52% |
| Sb 206.836† | -33.0 | -0.01635 | mg/L | 0.000958 | -0.03269 | mg/L | 0.001917 5.86% |
| Se 196.026† | 20.7 | 0.00878 | mg/L | 0.005257 | 0.01755 | mg/L | 0.010514 59.90% |
| Si 288.158† | 4575.9 | 3.701 | mg/L | 0.0355 | 7.403 | mg/L | 0.0710 0.96% |
| Sn 189.927† | 155.0 | 0.05044 | mg/L | 0.001979 | 0.1009 | mg/L | 0.00396 3.92% |
| Sr 421.552† | 61525.5 | 0.1351 | mg/L | 0.00063 | 0.2703 | mg/L | 0.00125 0.46% |
| Ti 334.903† | 33070.2 | 1.732 | mg/L | 0.0026 | 3.465 | mg/L | 0.0051 0.15% |
| Tl 190.801† | -5.4 | -0.00043 | mg/L | 0.004097 | -0.00086 | mg/L | 0.008195 952.53% |
| V 292.402† | 11736.6 | 0.07772 | mg/L | 0.000925 | 0.1554 | mg/L | 0.00185 1.19% |
| Zn 206.200† | 2674.1 | 1.049 | mg/L | 0.0103 | 2.098 | mg/L | 0.0206 0.98% |

Sequence No.: 39
 Sample ID: UU52 I SWC

Autosampler Location: 51
 Date Collected: 5/29/2012 6:09:20 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 I SWC

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: UU52 I SWC

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1839881.3 | 96.14 | % | 0.570 | | | 0.59% |
| ScR 361.383 | 196247.5 | 99.90 | % | 0.936 | | | 0.94% |
| Ag 328.068† | -93.3 | 0.00072 | mg/L | 0.000162 | 0.00144 mg/L | 0.000324 | 22.51% |
| Al 308.215† | 22414.4 | 17.13 | mg/L | 0.052 | 34.25 mg/L | 0.104 | 0.30% |
| As 188.979† | 36.3 | 0.02563 | mg/L | 0.001872 | 0.05125 mg/L | 0.003743 | 7.30% |
| B 249.677† | 127.9 | 0.07644 | mg/L | 0.001495 | 0.1529 mg/L | 0.00299 | 1.96% |
| Ba 233.527† | 364.2 | 0.04953 | mg/L | 0.000093 | 0.09906 mg/L | 0.000186 | 0.19% |
| Be 313.042† | 116.5 | 0.00025 | mg/L | 0.000073 | 0.00050 mg/L | 0.000147 | 29.56% |
| Ca 317.933† | 112108.3 | 10.60 | mg/L | 0.013 | 21.20 mg/L | 0.026 | 0.12% |
| Cd 228.802† | 108.8 | 0.00219 | mg/L | 0.000107 | 0.00438 mg/L | 0.000213 | 4.87% |
| Co 228.616† | 465.8 | 0.00839 | mg/L | 0.000153 | 0.01678 mg/L | 0.000305 | 1.82% |
| Cr 267.716† | 186.0 | 0.04209 | mg/L | 0.000568 | 0.08419 mg/L | 0.001136 | 1.35% |
| Cu 324.752† | 25145.3 | 0.1055 | mg/L | 0.00041 | 0.2110 mg/L | 0.00082 | 0.39% |
| Fe 273.955† | 34750.4 | 29.33 | mg/L | 0.131 | 58.65 mg/L | 0.261 | 0.45% |
| K 766.490† | 6724.4 | 2.581 | mg/L | 0.0306 | 5.161 mg/L | 0.0611 | 1.18% |
| Mg 279.077† | 11559.6 | 10.97 | mg/L | 0.136 | 21.93 mg/L | 0.273 | 1.24% |
| Mn 257.610† | 11952.4 | 0.3021 | mg/L | 0.00343 | 0.6041 mg/L | 0.00685 | 1.13% |
| Mo 202.031† | 196.8 | 0.01839 | mg/L | 0.000429 | 0.03678 mg/L | 0.000858 | 2.33% |
| Na 589.592† | 52876.3 | 7.847 | mg/L | 0.0141 | 15.69 mg/L | 0.028 | 0.18% |
| Na 330.237† | 178.0 | 8.880 | mg/L | 0.2544 | 17.76 mg/L | 0.509 | 2.86% |
| Ni 231.604† | 73.9 | 0.04132 | mg/L | 0.001078 | 0.08264 mg/L | 0.002155 | 2.61% |
| Pb 220.353† | 1224.8 | 0.1800 | mg/L | 0.00111 | 0.3600 mg/L | 0.00222 | 0.62% |
| Sb 206.836† | -21.5 | -0.01105 | mg/L | 0.004363 | -0.02211 mg/L | 0.008726 | 39.47% |
| Se 196.026† | 17.3 | 0.01202 | mg/L | 0.001941 | 0.02405 mg/L | 0.003883 | 16.14% |
| Si 288.158† | 3820.5 | 3.090 | mg/L | 0.0325 | 6.179 mg/L | 0.0650 | 1.05% |
| Sn 189.927† | -6.6 | -0.00111 | mg/L | 0.001716 | -0.00223 mg/L | 0.003431 | 154.05% |
| Sr 421.552† | 52282.6 | 0.1148 | mg/L | 0.00071 | 0.2297 mg/L | 0.00142 | 0.62% |
| Ti 334.903† | 17196.3 | 0.9007 | mg/L | 0.00251 | 1.801 mg/L | 0.0050 | 0.28% |
| Tl 190.801† | -9.7 | -0.00522 | mg/L | 0.000708 | -0.01044 mg/L | 0.001416 | 13.56% |
| V 292.402† | 8272.4 | 0.05736 | mg/L | 0.000297 | 0.1147 mg/L | 0.00059 | 0.52% |
| Zn 206.200† | 719.2 | 0.2823 | mg/L | 0.00368 | 0.5646 mg/L | 0.00737 | 1.30% |

Sequence No.: 40
Sample ID: UU52 J SWC

Autosampler Location: 52
Date Collected: 5/29/2012 6:15:25 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: UU52 J SWC

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU52 J SWC

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1847263.5 | 96.53 % | 0.557 | | | 0.58% |
| ScR 361.383 | 197859.8 | 100.7 % | 1.31 | | | 1.30% |
| Ag 328.068† | -141.7 | 0.00050 mg/L | 0.000460 | 0.00101 mg/L | 0.000920 | 91.21% |
| Al 308.215† | 28630.3 | 21.88 mg/L | 0.082 | 43.76 mg/L | 0.165 | 0.38% |
| As 188.979† | 19.0 | 0.01185 mg/L | 0.003169 | 0.02371 mg/L | 0.006339 | 26.74% |
| B 249.677† | 129.6 | 0.07743 mg/L | 0.001531 | 0.1549 mg/L | 0.00306 | 1.98% |
| Ba 233.527† | 386.6 | 0.05263 mg/L | 0.000927 | 0.1053 mg/L | 0.00185 | 1.76% |
| Be 313.042† | 112.8 | 0.00025 mg/L | 0.000053 | 0.00049 mg/L | 0.000107 | 21.77% |
| Ca 317.933† | 82833.3 | 7.831 mg/L | 0.0281 | 15.66 mg/L | 0.056 | 0.36% |
| Cd 228.802† | 105.0 | 0.00214 mg/L | 0.000026 | 0.00427 mg/L | 0.000053 | 1.23% |
| Co 228.616† | 571.6 | 0.01043 mg/L | 0.000087 | 0.02085 mg/L | 0.000173 | 0.83% |
| Cr 267.716† | 213.2 | 0.04811 mg/L | 0.000896 | 0.09622 mg/L | 0.001792 | 1.86% |
| Cu 324.752† | 17285.0 | 0.07327 mg/L | 0.000502 | 0.1465 mg/L | 0.00100 | 0.69% |
| Fe 273.955† | 35317.7 | 29.81 mg/L | 0.234 | 59.61 mg/L | 0.468 | 0.79% |
| K 766.490† | 10327.9 | 3.963 mg/L | 0.0178 | 7.927 mg/L | 0.0356 | 0.45% |
| Mg 279.077† | 16305.7 | 15.47 mg/L | 0.041 | 30.95 mg/L | 0.081 | 0.26% |
| Mn 257.610† | 12342.1 | 0.3119 mg/L | 0.00332 | 0.6237 mg/L | 0.00663 | 1.06% |
| Mo 202.031† | 159.5 | 0.01466 mg/L | 0.000031 | 0.02932 mg/L | 0.000061 | 0.21% |
| Na 589.592† | 176185.9 | 26.15 mg/L | 0.114 | 52.29 mg/L | 0.229 | 0.44% |
| Na 330.237† | 565.3 | 28.15 mg/L | 0.384 | 56.30 mg/L | 0.768 | 1.36% |
| Ni 231.604† | 76.5 | 0.04273 mg/L | 0.003221 | 0.08547 mg/L | 0.006443 | 7.54% |
| Pb 220.353† | 426.6 | 0.06781 mg/L | 0.001927 | 0.1356 mg/L | 0.00385 | 2.84% |
| Sb 206.836† | -25.7 | -0.01259 mg/L | 0.001554 | -0.02517 mg/L | 0.003109 | 12.35% |
| Se 196.026† | 17.4 | 0.01091 mg/L | 0.004001 | 0.02182 mg/L | 0.008002 | 36.67% |
| Si 288.158† | 4803.2 | 3.885 mg/L | 0.0395 | 7.769 mg/L | 0.0790 | 1.02% |
| Sn 189.927† | -22.5 | -0.00582 mg/L | 0.001931 | -0.01163 mg/L | 0.003863 | 33.21% |
| Sr 421.552† | 42489.8 | 0.09333 mg/L | 0.000436 | 0.1867 mg/L | 0.00087 | 0.47% |
| Ti 334.903† | 19656.5 | 1.030 mg/L | 0.0033 | 2.059 mg/L | 0.0066 | 0.32% |
| Tl 190.801† | -1.8 | -0.00045 mg/L | 0.003840 | -0.00091 mg/L | 0.007679 | 848.52% |
| V 292.402† | 7602.3 | 0.05224 mg/L | 0.000561 | 0.1045 mg/L | 0.00112 | 1.07% |
| Zn 206.200† | 458.2 | 0.1800 mg/L | 0.00121 | 0.3601 mg/L | 0.00243 | 0.67% |

Sequence No.: 41
 Sample ID: UU94 MBSPK WMN

Autosampler Location: 53
 Date Collected: 5/29/2012 6:21:26 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: UU94 MBSPK WMN

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: UU94 MBSPK WMN

| Analyte | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 1896780.0 | 99.12 % | 0.460 | | | 0.46% |
| ScR 361.383 | 202929.3 | 103.3 % | 0.56 | | | 0.54% |
| Ag 328.068† | 100057.4 | 0.4873 mg/L | 0.00486 | 0.4873 mg/L | 0.00486 | 1.00% |
| Al 308.215† | 2840.5 | 2.163 mg/L | 0.0106 | 2.163 mg/L | 0.0106 | 0.49% |
| As 188.979† | 2732.3 | 2.145 mg/L | 0.0087 | 2.145 mg/L | 0.0087 | 0.41% |
| B 249.677† | -0.2 | -0.00185 mg/L | 0.005413 | -0.00185 mg/L | 0.005413 | 292.93% |
| Ba 233.527† | 14015.5 | 1.947 mg/L | 0.0103 | 1.947 mg/L | 0.0103 | 0.53% |
| Be 313.042† | 146441.2 | 0.5216 mg/L | 0.00397 | 0.5216 mg/L | 0.00397 | 0.76% |
| Ca 317.933† | 114167.2 | 10.79 mg/L | 0.085 | 10.79 mg/L | 0.085 | 0.78% |
| Cd 228.802† | 26790.5 | 0.5455 mg/L | 0.00389 | 0.5455 mg/L | 0.00389 | 0.71% |
| Co 228.616† | 23870.8 | 0.5072 mg/L | 0.00322 | 0.5072 mg/L | 0.00322 | 0.63% |
| Cr 267.716† | 2189.9 | 0.4956 mg/L | 0.00501 | 0.4956 mg/L | 0.00501 | 1.01% |
| Cu 324.752† | 123108.4 | 0.5052 mg/L | 0.00305 | 0.5052 mg/L | 0.00305 | 0.60% |
| Fe 273.955† | 2538.6 | 2.142 mg/L | 0.0073 | 2.142 mg/L | 0.0073 | 0.34% |
| K 766.490† | 28958.8 | 11.11 mg/L | 0.062 | 11.11 mg/L | 0.062 | 0.55% |
| Mg 279.077† | 11356.0 | 10.79 mg/L | 0.066 | 10.79 mg/L | 0.066 | 0.61% |
| Mn 257.610† | 19545.7 | 0.4946 mg/L | 0.00308 | 0.4946 mg/L | 0.00308 | 0.62% |
| Mo 202.031† | 29.4 | 0.00238 mg/L | 0.000445 | 0.00238 mg/L | 0.000445 | 18.66% |
| Na 589.592† | 70658.4 | 10.49 mg/L | 0.064 | 10.49 mg/L | 0.064 | 0.61% |
| Na 330.237† | 242.7 | 11.81 mg/L | 0.228 | 11.81 mg/L | 0.228 | 1.93% |
| Ni 231.604† | 934.9 | 0.4994 mg/L | 0.00397 | 0.4994 mg/L | 0.00397 | 0.79% |
| Pb 220.353† | 14920.6 | 2.128 mg/L | 0.0079 | 2.128 mg/L | 0.0079 | 0.37% |
| Sb 206.836† | -9.7 | -0.01211 mg/L | 0.000661 | -0.01211 mg/L | 0.000661 | 5.46% |
| Se 196.026† | 1896.4 | 2.278 mg/L | 0.0060 | 2.278 mg/L | 0.0060 | 0.26% |
| Si 288.158† | 0.0 | 0.00443 mg/L | 0.006046 | 0.00443 mg/L | 0.006046 | 136.42% |
| Sn 189.927† | -14.1 | -0.00386 mg/L | 0.001333 | -0.00386 mg/L | 0.001333 | 34.55% |
| Sr 421.552† | 234370.4 | 0.5148 mg/L | 0.00271 | 0.5148 mg/L | 0.00271 | 0.53% |
| Ti 334.903† | 9.2 | 0.00000 mg/L | 0.000474 | 0.00000 mg/L | 0.000474 | >999.9% |
| Tl 190.801† | 3457.3 | 2.140 mg/L | 0.0053 | 2.140 mg/L | 0.0053 | 0.25% |
| V 292.402† | 70493.0 | 0.5269 mg/L | 0.00139 | 0.5269 mg/L | 0.00139 | 0.26% |
| Zn 206.200† | 1293.1 | 0.5071 mg/L | 0.00300 | 0.5071 mg/L | 0.00300 | 0.59% |

Sequence No.: 42

Sample ID: CV

Autosampler Location: 7

Date Collected: 5/29/2012 6:27:29 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow |
|---------|---------------|------------|
| All | 182.0 kPa | 0.55 L/min |

Mean Data: CV

| Analyte | Mean Corrected Intensity | Conc. Units | Calib. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD |
|-------------|--------------------------|-------------|--------------|----------|--------------------|----------|-------|
| ScA 357.253 | 1826694.1 | 95.45 | % | 0.328 | | | 0.34% |
| ScR 361.383 | 195414.9 | 99.48 | % | 0.355 | | | 0.36% |
| Ag 328.068† | 201598.4 | 0.9815 | mg/L | 0.00825 | 0.9815 mg/L | 0.00825 | 0.84% |
| Al 308.215† | 2745.2 | 2.059 | mg/L | 0.0017 | 2.059 mg/L | 0.0017 | 0.08% |
| As 188.979† | 2600.8 | 2.041 | mg/L | 0.0114 | 2.041 mg/L | 0.0114 | 0.56% |
| B 249.677† | 1634.2 | 0.9750 | mg/L | 0.00636 | 0.9750 mg/L | 0.00636 | 0.65% |
| Ba 233.527† | 6943.7 | 0.9643 | mg/L | 0.00317 | 0.9643 mg/L | 0.00317 | 0.33% |
| Be 313.042† | 275940.7 | 0.9828 | mg/L | 0.00268 | 0.9828 mg/L | 0.00268 | 0.27% |
| Ca 317.933† | 21828.6 | 2.064 | mg/L | 0.0033 | 2.064 mg/L | 0.0033 | 0.16% |
| Cd 228.802† | 49705.4 | 1.016 | mg/L | 0.0059 | 1.016 mg/L | 0.0059 | 0.58% |
| Co 228.616† | 46013.5 | 0.9772 | mg/L | 0.00782 | 0.9772 mg/L | 0.00782 | 0.80% |
| Cr 267.716† | 4265.3 | 0.9660 | mg/L | 0.00262 | 0.9660 mg/L | 0.00262 | 0.27% |
| Cu 324.752† | 251470.9 | 1.031 | mg/L | 0.0091 | 1.031 mg/L | 0.0091 | 0.89% |
| Fe 273.955† | 2488.5 | 2.099 | mg/L | 0.0089 | 2.099 mg/L | 0.0089 | 0.42% |
| K 766.490† | 54087.2 | 20.76 | mg/L | 0.106 | 20.76 mg/L | 0.106 | 0.51% |
| Mg 279.077† | 2229.1 | 2.121 | mg/L | 0.0109 | 2.121 mg/L | 0.0109 | 0.51% |
| Mn 257.610† | 38261.4 | 0.9678 | mg/L | 0.00280 | 0.9678 mg/L | 0.00280 | 0.29% |
| Mo 202.031† | 10278.9 | 1.015 | mg/L | 0.0039 | 1.015 mg/L | 0.0039 | 0.38% |
| Na 589.592† | 333896.7 | 49.55 | mg/L | 0.083 | 49.55 mg/L | 0.083 | 0.17% |
| Na 330.237† | 1072.0 | 52.99 | mg/L | 0.289 | 52.99 mg/L | 0.289 | 0.54% |
| Ni 231.604† | 1835.7 | 0.9832 | mg/L | 0.00129 | 0.9832 mg/L | 0.00129 | 0.13% |
| Pb 220.353† | 14031.9 | 2.002 | mg/L | 0.0190 | 2.002 mg/L | 0.0190 | 0.95% |
| Sb 206.836† | 2775.8 | 2.246 | mg/L | 0.0077 | 2.246 mg/L | 0.0077 | 0.34% |
| Se 196.026† | 1655.6 | 1.988 | mg/L | 0.0146 | 1.988 mg/L | 0.0146 | 0.73% |
| Si 288.158† | 2879.0 | 2.333 | mg/L | 0.0066 | 2.333 mg/L | 0.0066 | 0.28% |
| Sn 189.927† | 3134.9 | 0.9872 | mg/L | 0.00416 | 0.9872 mg/L | 0.00416 | 0.42% |
| Sr 421.552† | 451123.7 | 0.9909 | mg/L | 0.00688 | 0.9909 mg/L | 0.00688 | 0.69% |
| Ti 334.903† | 19930.5 | 1.043 | mg/L | 0.0011 | 1.043 mg/L | 0.0011 | 0.11% |
| Tl 190.801† | 3192.1 | 1.968 | mg/L | 0.0049 | 1.968 mg/L | 0.0049 | 0.25% |
| V 292.402† | 133660.9 | 1.005 | mg/L | 0.0125 | 1.005 mg/L | 0.0125 | 1.24% |
| Zn 206.200† | 2624.5 | 1.028 | mg/L | 0.0022 | 1.028 mg/L | 0.0022 | 0.21% |

Sequence No.: 43
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 5/29/2012 6:33:31 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 182.0 kPa 0.55 L/min

Mean Data: CB

| Analyte | Mean Corrected | | Calib. Units | Std.Dev. | Sample | | Std.Dev. | RSD |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
| | Intensity | Conc. | | | Conc. | Units | | |
| ScA 357.253 | 1863841.4 | 97.39 | % | 0.676 | | | | 0.69% |
| ScR 361.383 | 194624.0 | 99.08 | % | 0.815 | | | | 0.82% |
| Ag 328.068† | 115.9 | 0.00056 | mg/L | 0.000173 | 0.00056 | mg/L | 0.000173 | 30.66% |
| Al 308.215† | -5.4 | -0.00415 | mg/L | 0.001709 | -0.00415 | mg/L | 0.001709 | 41.22% |
| As 188.979† | -0.3 | -0.00025 | mg/L | 0.001274 | -0.00025 | mg/L | 0.001274 | 508.68% |
| B 249.677† | 8.0 | 0.00477 | mg/L | 0.002471 | 0.00477 | mg/L | 0.002471 | 51.81% |
| Ba 233.527† | 6.3 | 0.00088 | mg/L | 0.000372 | 0.00088 | mg/L | 0.000372 | 42.51% |
| Be 313.042† | 36.6 | 0.00013 | mg/L | 0.000038 | 0.00013 | mg/L | 0.000038 | 29.53% |
| Ca 317.933† | 25.0 | 0.00237 | mg/L | 0.000254 | 0.00237 | mg/L | 0.000254 | 10.74% |
| Cd 228.802† | 0.6 | 0.00001 | mg/L | 0.000066 | 0.00001 | mg/L | 0.000066 | 521.18% |
| Co 228.616† | 2.7 | 0.00006 | mg/L | 0.000152 | 0.00006 | mg/L | 0.000152 | 269.30% |
| Cr 267.716† | -3.9 | -0.00088 | mg/L | 0.001844 | -0.00088 | mg/L | 0.001844 | 209.06% |
| Cu 324.752† | -32.6 | -0.00013 | mg/L | 0.000086 | -0.00013 | mg/L | 0.000086 | 64.41% |
| Fe 273.955† | 1.3 | 0.00107 | mg/L | 0.000661 | 0.00107 | mg/L | 0.000661 | 61.68% |
| K 766.490† | 97.5 | 0.03743 | mg/L | 0.007964 | 0.03743 | mg/L | 0.007964 | 21.28% |
| Mg 279.077† | -0.6 | -0.00055 | mg/L | 0.001633 | -0.00055 | mg/L | 0.001633 | 297.15% |
| Mn 257.610† | 11.6 | 0.00029 | mg/L | 0.000106 | 0.00029 | mg/L | 0.000106 | 35.92% |
| Mo 202.031† | 6.8 | 0.00067 | mg/L | 0.000194 | 0.00067 | mg/L | 0.000194 | 28.88% |
| Na 589.592† | 332.8 | 0.04938 | mg/L | 0.002080 | 0.04938 | mg/L | 0.002080 | 4.21% |
| Na 330.237† | 0.4 | 0.02000 | mg/L | 0.262009 | 0.02000 | mg/L | 0.262009 | >999.9% |
| Ni 231.604† | -3.6 | -0.00195 | mg/L | 0.002490 | -0.00195 | mg/L | 0.002490 | 127.46% |
| Pb 220.353† | 5.0 | 0.00071 | mg/L | 0.000237 | 0.00071 | mg/L | 0.000237 | 33.55% |
| Sb 206.836† | -4.5 | -0.00360 | mg/L | 0.003765 | -0.00360 | mg/L | 0.003765 | 104.68% |
| Se 196.026† | 0.9 | 0.00111 | mg/L | 0.010577 | 0.00111 | mg/L | 0.010577 | 948.74% |
| Si 288.158† | 7.4 | 0.00602 | mg/L | 0.005886 | 0.00602 | mg/L | 0.005886 | 97.77% |
| Sn 189.927† | 2.6 | 0.00083 | mg/L | 0.000555 | 0.00083 | mg/L | 0.000555 | 67.17% |
| Sr 421.552† | 20.9 | 0.00005 | mg/L | 0.000131 | 0.00005 | mg/L | 0.000131 | 285.04% |
| Ti 334.903† | 11.6 | 0.00061 | mg/L | 0.000714 | 0.00061 | mg/L | 0.000714 | 117.43% |
| Tl 190.801† | 3.1 | 0.00193 | mg/L | 0.001791 | 0.00193 | mg/L | 0.001791 | 92.60% |
| V 292.402† | 14.8 | 0.00011 | mg/L | 0.000044 | 0.00011 | mg/L | 0.000044 | 40.68% |
| Zn 206.200† | -1.3 | -0.00049 | mg/L | 0.000505 | -0.00049 | mg/L | 0.000505 | 102.77% |

end package



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5/23/12 Analyst: REW Page: 1 of 3

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------|
| | | std 0 | | | 2936-2 |
| | | ↓ 1 | | | 2935-1 |
| | | ↓ 2 | | | ↓ -2 |
| | | ↓ 3 | | | 2936-11 |
| | | ↓ 4 | | | 2935-4 |
| | | Rinse sample | | | |
| | | std 0 | | | |
| | | ICV | | | 2925-2 |
| | | ICB | | | |
| | | CCV1 | | | |
| | | CCB1 | | | |
| | | low check | | | |
| | | ICSA | | | |
| | | ICSA B | | | |
| | | LR200 | | | |
| | | LR300 | | | |
| | | CCV2 | | | |
| | | CCB2 | | | |
| | | new I.S. | | | ✓ 2939-1 |
| | | UV05 MBI | REW | 2 | Zn 8 |
| | | ↓ MB2 | ↓ | ↓ | |
| | | UV06 MBI | ↓ | ↓ | |
| | | ↓ MB2 | ↓ | ↓ | |
| | | ↓ MB2sph | ↓ | ↓ | ✓ |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.23.12

Analyst: BW

Page: 2 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-----------------------|
| | | UV06 MB1spl | REV | 2 ✓ | |
| | | UV05 MB2spl | ↓ | ↓ ✓ | |
| | | ↓ MB1spl | ↓ | ↓ ✓ | |
| ✓ | | A | ↓ | ↓ | Zn high - re-run 1/10 |
| | | CCV3 | | | |
| | | CCB3 | | | Pb high |
| | | UV14 MB1 | REV | 2 | |
| | | ↓ MB2 | ↓ | ↓ | |
| | | ↓ MB2spl | ↓ | ↓ | Cu 122% |
| | | ↓ MB1spl | ↓ | ↓ ✓ | |
| | | A | ↓ | ↓ | |
| | | B | ↓ | ↓ | |
| | | ↓ C | ↓ | ↓ | |
| | | UV05 B | ↓ | ↓ | |
| ✓ | | UV06 A | ↓ | ↓ | Zn high - re-run 1/10 |
| ✓ | | ↓ B | ↓ | ↓ | ↓ |
| | | CCV4 | | | |
| | | CCB4 | | | Pb high |
| | | UV16 MB1 | REV | 2 | re-run Pb |
| | | ↓ MB2 | ↓ | ↓ | |
| | | ↓ MB2spl | ↓ | ↓ ✓ | |
| | | ↓ MB1spl | ↓ | ↓ ✓ | |
| | | A | ↓ | ↓ | |
| | | UV14 D | ↓ | ↓ | |



Analysis Date: 5.23.12

Analyst: BW

Page: 3 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-------------------------|
| | | UV14 E | REW | 2 | |
| | | ↓ F | ↓ | ↓ | |
| | | ↓ G | | | |
| | | ↓ H | ↓ | ↓ | |
| | | CCV5 | | | |
| | | CCB5 | | | |
| | | UV62 MBI | REW | 2 | |
| | | ↓ MBIspl | ↓ | ↓ | ✓ |
| | | ↓ Idup | ↓ | ↓ | ✓ |
| | | ↓ J | | | |
| | | ↓ Jspl | ↓ | ↓ | ✓ |
| | | ↓ K | | | |
| | | UV27 G | | | |
| | | UV16 B | | | |
| | | ↓ C | | | |
| | | ↓ D | ↓ | ↓ | |
| | | CCV6 | | | 53Cr high |
| | | CCB6 | | | √ 2 53Cr high |
| | | UV52 MBI | SLW | 20 | |
| | | ↓ MBIspl | ↓ | ↓ | ✓ |
| | | ↓ Cdup | ↓ | ↓ | ✓ |
| | | ↓ C | | | |
| | | ↓ Cspl | ↓ | ↓ | 5b 10 ⁹ CAF |
| | | ↓ Cpost | ↓ | ↓ | 0.106 ml spl #1, spl #2 |



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.23.12 Analyst: REN Page: 4 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|--------------|
| | | UU52 A | REN | 20 | |
| | | ↓ B | ↓ | ↓ | |
| | | ↓ D | ↓ | ↓ | |
| | | ↓ E | ↓ | ↓ | |
| | | CCV7 | | | |
| | | CCB7 | | | V2 53Cr high |
| | | UU31 MB | REN | 2 | |
| | | ↓ MBsph | ↓ | ↓ | ✓ |
| | | ↓ Adyp | ↓ | ↓ | ✓ |
| | | ↓ A | ↓ | ↓ | ✓ |
| | | ↓ Asph | ↓ | ↓ | ✓ |
| | | UU52 F | REN | 20 | |
| | | ↓ G | ↓ | ↓ | |
| | | ↓ H | ↓ | ↓ | |
| | | ↓ I | ↓ | ↓ | |
| | | ↓ J | ↓ | ↓ | |
| | | CCV8 | | | |
| | | CCB8 | | | end package |
| | | UT84 Adyp | REN | 20 | ✓ Cr |
| | | ↓ A | ↓ | ↓ | ✓ |
| | | ↓ Asph | ↓ | ↓ | ✓ |
| | | ↓ B | ↓ | ↓ | |
| | | ↓ C | ↓ | ↓ | |
| | | ↓ D | ↓ | 50 | |

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5.23.12

| 41 | Analyst BEO 5.24 | Peer JWG 5.24.12 | 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 | ✓ | ✓ | |
| Carry-over | ✓ | ✓ | |
| Method QC: | | | |
| CRI/CRA | ✓ | ✓ | |
| ICSA/ICSAB | ✓ | ✓ | |
| Post Spikes/Serial Dilutions | ✓ | ✓ | |
| Analytic Spikes | — | — | |
| Matrix QC: | | | |
| SRM/LCS | ✓ | ✓ | see log |
| Matrix Spikes | ✓ | ✓ | UUS 2 |
| Matrix Duplicates | ✓ | ✓ | |
| Method Blanks | ✓ | ✓ | see log UUS 2 |
| 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 | ✓ | ✓ | UUS 2, UUS 4 |

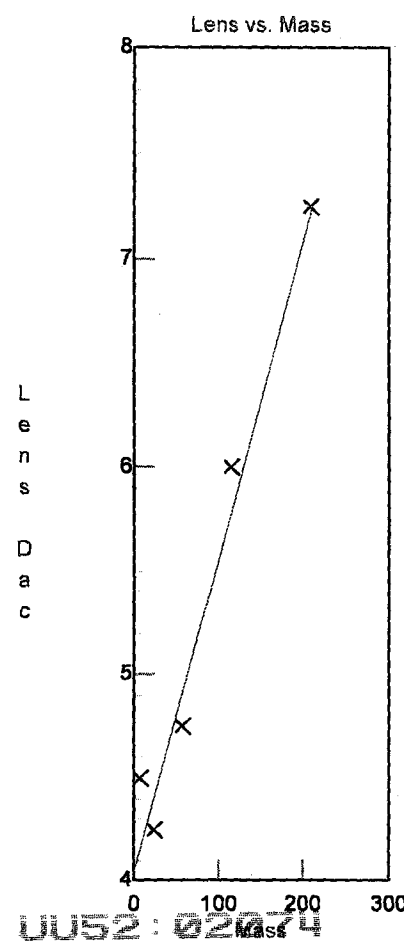
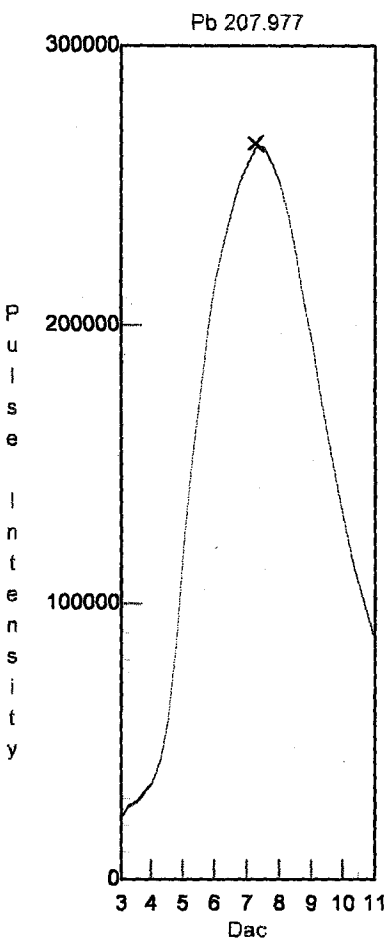
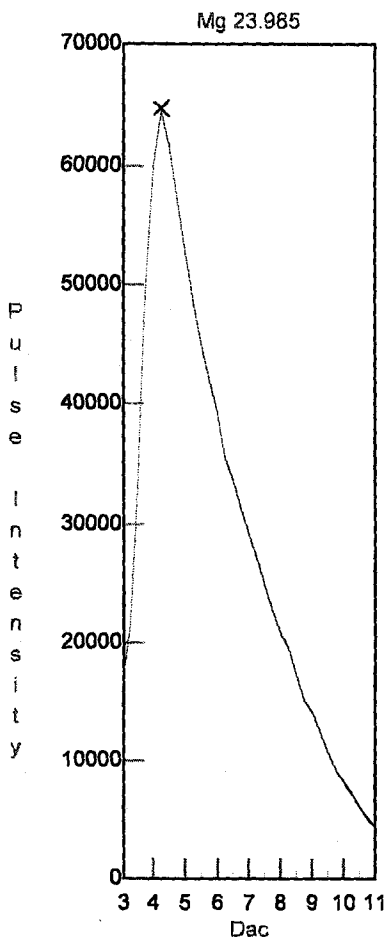
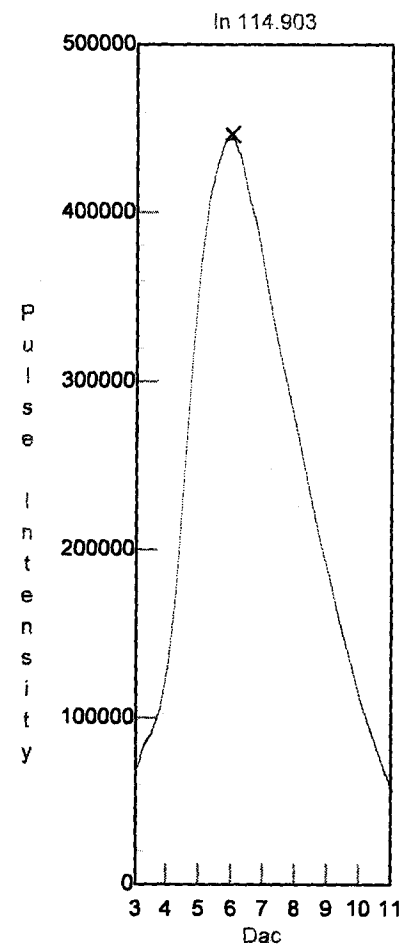
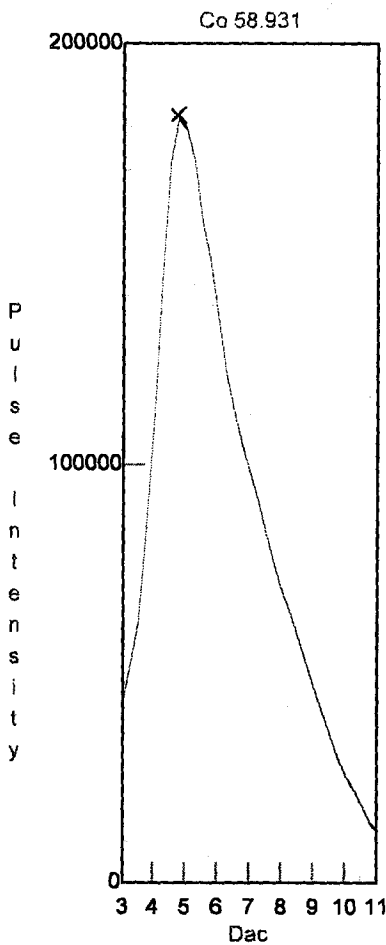
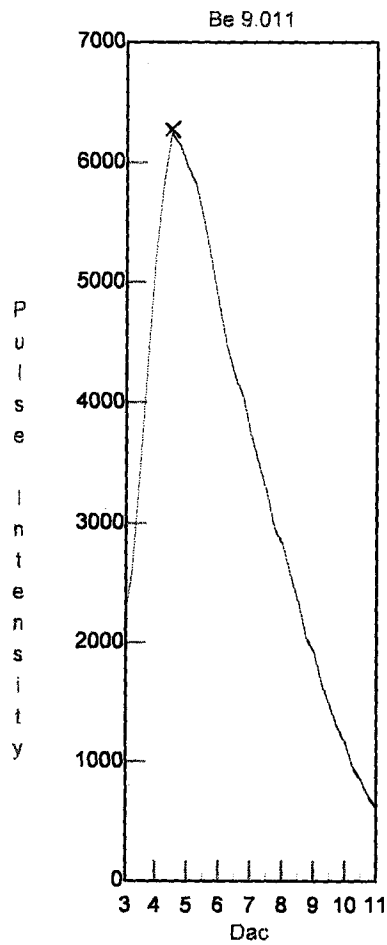
15E

Instrument Tuning Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 8.974 | 2019 | 2156 | 0.707 | |
| Mg | 23.985 | 23.979 | 5662 | 2274 | 0.711 | |
| Co | 58.933 | 58.929 | 14156 | 2539 | 0.705 | ✓ |
| In | 114.904 | 114.928 | 27789 | 2983 | 0.685 | |
| Pb | 207.977 | 207.976 | 50433 | 3738 | 0.706 | |

05.23.12



UU52:02074

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, May 23, 2012 15:40:29
Sample Description:
Sample File: 1120.sam
Method File: C:\Elandata\Method\aridailyperf.mth
Dataset File: C:\Elandata\Dataset\daily performance\Sample.746
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

web 0.97

Summary

| Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|------|------------------|----------------|-----------------|
| Mg | 24 | 47069.033 | 656.817 | 1.395 |
| In | 115 | 336669.059 | 1679.553 | 0.499 |
| Pb | 208 | 213023.952 | 1239.249 | 0.582 |
| [> Ba | 138 | 266659.234 | 3030.305 | 1.136 |
| [Ba++ | 69 | 0.013 | 0.000 | 2.029 |
| [> Ce | 140 | 327444.236 | 4819.690 | 1.472 |
| [CeO | 156 | 0.027 | 0.001 | 2.662 |
| Bkgd | 220 | 3.500 | 1.046 | 29.881 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:00:45

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | | 473160 | 1 |
| [Be | 9 | | ug/L | | | | 2 | 65 |
| C | 13 | | mg/L | | | | 5976 | 1 |
| Cl | 37 | | mg/L | | | | 2184345 | 0 |
| [> Sc | 45 | | ug/L | | | | 249769 | 0 |
| V | 51 | | ug/L | | | | 1708 | 10 |
| V-1 | 51 | | ug/L | | | | 10262 | 3 |
| Cr | 52 | | ug/L | | | | 6499 | 0 |
| Cr | 53 | | ug/L | | | | 3469 | 4 |
| Mn | 55 | | ug/L | | | | 733 | 6 |
| [Co | 59 | | ug/L | | | | 106 | 3 |
| [> Ge | 72 | | ug/L | | | | 317543 | 1 |
| Ni | 60 | | ug/L | | | | 99 | 10 |
| Ni | 62 | | ug/L | | | | 62 | 13 |
| Cu | 63 | | ug/L | | | | 229 | 3 |
| Cu | 65 | | ug/L | | | | 116 | 23 |
| Zn | 66 | | ug/L | | | | 545 | 6 |
| Zn | 67 | | ug/L | | | | 251 | 7 |
| Zn | 68 | | ug/L | | | | 7815 | 2 |
| As | 75 | | ug/L | | | | 730 | 2 |
| As-1 | 75 | | ug/L | | | | 10537 | 0 |
| Se | 82 | | ug/L | | | | -5 | 223 |
| Se | 78 | | ug/L | | | | 10699 | 0 |
| [Mo | 98 | | ug/L | | | | 2478 | 27 |
| Y | 89 | | ug/L | | | | 288507 | 0 |
| Kr | 83 | | ug/L | | | | 371 | 2 |
| [> In | 115 | | ug/L | | | | 339261 | 0 |
| Ag | 107 | | ug/L | | | | 72 | 20 |
| Cd | 111 | | ug/L | | | | 158 | 7 |
| Cd | 114 | | ug/L | | | | 25 | 15 |
| Sb | 121 | | ug/L | | | | 64 | 14 |
| Sb | 123 | | ug/L | | | | 44 | 12 |
| Ba | 135 | | ug/L | | | | 25 | 19 |
| [Ba | 137 | | ug/L | | | | 41 | 30 |
| [> Tb | 159 | | ug/L | | | | 406804 | 1 |
| Tl | 205 | | ug/L | | | | 57 | 12 |
| Pb | 208 | | ug/L | | | | 1094 | 5 |
| Bi | 209 | | ug/L | | | | 323780 | 1 |
| Th | 232 | | ug/L | | | | 267 | 23 |
| [U | 238 | | ug/L | | | | 42 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:06:53

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 473160 | 472524 | 1 |
| [Be | 9 | 10.000 | ug/L | 0.139 | 1 | 2 | 4520 | 1 |
| C | 13 | | mg/L | | | 5976 | 6309 | 2 |
| Cl | 37 | | mg/L | | | 2184345 | 2235079 | 0 |
| > Sc | 45 | | ug/L | | | 249769 | 251726 | 1 |
| V | 51 | 10.000 | ug/L | 0.158 | 1 | 1708 | 109311 | 1 |
| V-1 | 51 | 10.000 | ug/L | 0.227 | 2 | 10262 | 119464 | 1 |
| Cr | 52 | 10.000 | ug/L | 0.153 | 1 | 6499 | 102744 | 0 |
| Cr | 53 | 10.000 | ug/L | 0.326 | 3 | 3469 | 14857 | 1 |
| Mn | 55 | 10.000 | ug/L | 0.149 | 1 | 733 | 158924 | 0 |
| [Co | 59 | 10.000 | ug/L | 0.139 | 1 | 106 | 122109 | 0 |
| > Ge | 72 | | ug/L | | | 317543 | 322173 | 0 |
| Ni | 60 | 10.000 | ug/L | 0.126 | 1 | 99 | 26202 | 0 |
| Ni | 62 | 10.000 | ug/L | 0.307 | 3 | 62 | 4022 | 3 |
| Cu | 63 | 10.000 | ug/L | 0.095 | 0 | 229 | 59308 | 0 |
| Cu | 65 | 10.000 | ug/L | 0.152 | 1 | 116 | 28412 | 1 |
| Zn | 66 | 10.000 | ug/L | 0.067 | 0 | 545 | 18243 | 0 |
| Zn | 67 | 10.000 | ug/L | 0.335 | 3 | 251 | 3205 | 2 |
| Zn | 68 | 10.000 | ug/L | 0.171 | 1 | 7815 | 20312 | 1 |
| As | 75 | 10.000 | ug/L | 0.260 | 2 | 730 | 18613 | 2 |
| As-1 | 75 | 10.000 | ug/L | 0.285 | 2 | 10537 | 28227 | 1 |
| Se | 82 | 10.000 | ug/L | 0.227 | 2 | -5 | 1967 | 2 |
| Se | 78 | 10.000 | ug/L | 0.448 | 4 | 10699 | 15510 | 0 |
| [Mo | 98 | 10.000 | ug/L | 0.131 | 1 | 2478 | 65320 | 0 |
| Y | 89 | | ug/L | | | 288507 | 294426 | 1 |
| Kr | 83 | | ug/L | | | 371 | 368 | 2 |
| > In | 115 | | ug/L | | | 339261 | 340798 | 0 |
| Ag | 107 | 10.000 | ug/L | 0.100 | 1 | 72 | 113324 | 1 |
| Cd | 111 | 10.000 | ug/L | 0.044 | 0 | 158 | 27558 | 0 |
| Cd | 114 | 10.000 | ug/L | 0.069 | 0 | 25 | 64368 | 0 |
| Sb | 121 | 10.000 | ug/L | 0.087 | 0 | 64 | 92077 | 1 |
| Sb | 123 | 10.000 | ug/L | 0.100 | 1 | 44 | 69677 | 1 |
| Ba | 135 | 10.000 | ug/L | 0.109 | 1 | 25 | 23011 | 0 |
| [Ba | 137 | 10.000 | ug/L | 0.049 | 0 | 41 | 40179 | 0 |
| > Tb | 159 | | ug/L | | | 406804 | 411545 | 0 |
| Tl | 205 | 10.000 | ug/L | 0.118 | 1 | 57 | 279431 | 1 |
| Pb | 208 | 10.000 | ug/L | 0.022 | 0 | 1094 | 385993 | 0 |
| Bi | 209 | | ug/L | | | 323780 | 325486 | 0 |
| Th | 232 | 10.000 | ug/L | 0.024 | 0 | 267 | 430666 | 0 |
| [U | 238 | 10.000 | ug/L | 0.123 | 1 | 42 | 463283 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:13:01

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 473160 | 480741 | 0 |
| [Be | 9 | 19.937 | ug/L | 0.075 | 0 | 2 | 9054 | 1 |
| C | 13 | | mg/L | | | 5976 | 6012 | 0 |
| Cl | 37 | | mg/L | | | 2184345 | 2246774 | 0 |
| [> Sc | 45 | | ug/L | | | 249769 | 258255 | 1 |
| V | 51 | 20.034 | ug/L | 0.094 | 0 | 1708 | 224441 | 1 |
| V-1 | 51 | 20.031 | ug/L | 0.157 | 0 | 10262 | 236256 | 1 |
| Cr | 52 | 19.964 | ug/L | 0.187 | 0 | 6499 | 202376 | 2 |
| Cr | 53 | 19.956 | ug/L | 0.267 | 1 | 3469 | 26647 | 1 |
| Mn | 55 | 20.046 | ug/L | 0.357 | 1 | 733 | 329090 | 2 |
| [Co | 59 | 20.017 | ug/L | 0.375 | 1 | 106 | 251460 | 0 |
| [> Ge | 72 | | ug/L | | | 317543 | 327331 | 1 |
| Ni | 60 | 20.049 | ug/L | 0.215 | 1 | 99 | 53799 | 0 |
| Ni | 62 | 19.908 | ug/L | 0.090 | 0 | 62 | 7927 | 0 |
| Cu | 63 | 20.010 | ug/L | 0.072 | 0 | 229 | 120581 | 0 |
| Cu | 65 | 19.994 | ug/L | 0.424 | 2 | 116 | 57528 | 1 |
| Zn | 66 | 20.002 | ug/L | 0.226 | 1 | 545 | 36521 | 0 |
| Zn | 67 | 20.163 | ug/L | 0.432 | 2 | 251 | 6506 | 1 |
| Zn | 68 | 20.019 | ug/L | 0.140 | 0 | 7815 | 33337 | 0 |
| As | 75 | 19.985 | ug/L | 0.135 | 0 | 730 | 36934 | 1 |
| As-1 | 75 | 20.009 | ug/L | 0.166 | 0 | 10537 | 46577 | 1 |
| Se | 82 | 20.027 | ug/L | 0.241 | 1 | -5 | 4030 | 2 |
| Se | 78 | 20.121 | ug/L | 0.383 | 1 | 10699 | 20782 | 1 |
| [Mo | 98 | 20.074 | ug/L | 0.041 | 0 | 2478 | 132587 | 1 |
| Y | 89 | | ug/L | | | 288507 | 304824 | 1 |
| Kr | 83 | | ug/L | | | 371 | 370 | 2 |
| [> In | 115 | | ug/L | | | 339261 | 351452 | 2 |
| Ag | 107 | 19.977 | ug/L | 0.456 | 2 | 72 | 232240 | 1 |
| Cd | 111 | 20.037 | ug/L | 0.430 | 2 | 158 | 57187 | 2 |
| Cd | 114 | 19.968 | ug/L | 0.457 | 2 | 25 | 131667 | 2 |
| Sb | 121 | 20.021 | ug/L | 0.154 | 0 | 64 | 190828 | 1 |
| Sb | 123 | 19.965 | ug/L | 0.159 | 0 | 44 | 142398 | 1 |
| Ba | 135 | 20.003 | ug/L | 0.171 | 0 | 25 | 47469 | 2 |
| [Ba | 137 | 19.978 | ug/L | 0.233 | 1 | 41 | 82375 | 2 |
| [> Tb | 159 | | ug/L | | | 406804 | 420426 | 1 |
| Tl | 205 | 20.039 | ug/L | 0.250 | 1 | 57 | 576479 | 2 |
| Pb | 208 | 20.022 | ug/L | 0.136 | 0 | 1094 | 791919 | 1 |
| Bi | 209 | | ug/L | | | 323780 | 334715 | 0 |
| Th | 232 | 20.102 | ug/L | 0.188 | 0 | 267 | 902415 | 1 |
| [U | 238 | 20.066 | ug/L | 0.275 | 1 | 42 | 962442 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:19:09

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 473160 | 494273 | 1 |
| [Be | 9 | 49.916 | ug/L | 1.441 | 2 | 2 | 23098 | 0 |
| C | 13 | | mg/L | | | 5976 | 5559 | 1 |
| Cl | 37 | | mg/L | | | 2184345 | 2264545 | 0 |
| [> Sc | 45 | | ug/L | | | 249769 | 264324 | 1 |
| V | 51 | 50.191 | ug/L | 0.734 | 1 | 1708 | 583796 | 0 |
| V-1 | 51 | 50.203 | ug/L | 0.912 | 1 | 10262 | 601631 | 0 |
| Cr | 52 | 50.060 | ug/L | 0.538 | 1 | 6499 | 511963 | 0 |
| Cr | 53 | 50.106 | ug/L | 1.163 | 2 | 3469 | 63555 | 0 |
| Mn | 55 | 50.173 | ug/L | 1.508 | 3 | 733 | 856388 | 1 |
| [Co | 59 | 50.177 | ug/L | 1.185 | 2 | 106 | 656608 | 0 |
| [> Ge | 72 | | ug/L | | | 317543 | 337182 | 0 |
| Ni | 60 | 49.948 | ug/L | 0.934 | 1 | 99 | 137191 | 1 |
| Ni | 62 | 50.110 | ug/L | 0.680 | 1 | 62 | 20678 | 0 |
| Cu | 63 | 49.966 | ug/L | 0.421 | 0 | 229 | 308742 | 0 |
| Cu | 65 | 49.886 | ug/L | 1.011 | 2 | 116 | 146003 | 1 |
| Zn | 66 | 50.079 | ug/L | 0.812 | 1 | 545 | 94062 | 1 |
| Zn | 67 | 49.819 | ug/L | 0.889 | 1 | 251 | 15885 | 1 |
| Zn | 68 | 50.079 | ug/L | 0.578 | 1 | 7815 | 73962 | 0 |
| As | 75 | 49.934 | ug/L | 0.305 | 0 | 730 | 93292 | 0 |
| As-1 | 75 | 49.983 | ug/L | 0.450 | 0 | 10537 | 102931 | 0 |
| Se | 82 | 50.110 | ug/L | 0.741 | 1 | -5 | 10511 | 0 |
| Se | 78 | 50.307 | ug/L | 1.078 | 2 | 10699 | 37268 | 0 |
| Mo | 98 | 50.272 | ug/L | 0.207 | 0 | 2478 | 347448 | 0 |
| Y | 89 | | ug/L | | | 288507 | 312562 | 2 |
| Kr | 83 | | ug/L | | | 371 | 381 | 6 |
| [> In | 115 | | ug/L | | | 339261 | 366069 | 0 |
| Ag | 107 | 49.940 | ug/L | 0.716 | 1 | 72 | 601158 | 1 |
| Cd | 111 | 49.866 | ug/L | 0.509 | 1 | 158 | 146048 | 0 |
| Cd | 114 | 50.129 | ug/L | 0.195 | 0 | 25 | 348792 | 0 |
| Sb | 121 | 49.939 | ug/L | 0.063 | 0 | 64 | 492724 | 0 |
| Sb | 123 | 49.910 | ug/L | 0.343 | 0 | 44 | 367437 | 0 |
| Ba | 135 | 50.126 | ug/L | 0.713 | 1 | 25 | 125442 | 0 |
| [Ba | 137 | 50.068 | ug/L | 0.847 | 1 | 41 | 216416 | 1 |
| [> Tb | 159 | | ug/L | | | 406804 | 436529 | 0 |
| Tl | 205 | 50.205 | ug/L | 0.430 | 0 | 57 | 1530843 | 1 |
| Pb | 208 | 50.112 | ug/L | 0.284 | 0 | 1094 | 2079392 | 0 |
| Bi | 209 | | ug/L | | | 323780 | 346682 | 1 |
| Th | 232 | 49.925 | ug/L | 0.455 | 0 | 267 | 2309310 | 0 |
| [U | 238 | 49.875 | ug/L | 0.208 | 0 | 42 | 2452672 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:25:18

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 473160 | 473998 | 0 |
| [Be | 9 | 99.684 | ug/L | 0.500 | 0 | 2 | 43789 | 1 |
| C | 13 | | mg/L | | | 5976 | 6261 | 1 |
| Cl | 37 | | mg/L | | | 2184345 | 2265913 | 0 |
| > Sc | 45 | | ug/L | | | 249769 | 251508 | 1 |
| V | 51 | 100.422 | ug/L | 0.968 | 0 | 1708 | 1125632 | 0 |
| V-1 | 51 | 100.385 | ug/L | 0.817 | 0 | 10262 | 1149145 | 0 |
| Cr | 52 | 100.344 | ug/L | 1.440 | 1 | 6499 | 981048 | 0 |
| Cr | 53 | 100.231 | ug/L | 1.244 | 1 | 3469 | 118377 | 0 |
| Mn | 55 | 100.300 | ug/L | 1.180 | 1 | 733 | 1645215 | 1 |
| Co | 59 | 100.027 | ug/L | 0.619 | 0 | 106 | 1246825 | 1 |
| > Ge | 72 | | ug/L | | | 317543 | 323388 | 0 |
| Ni | 60 | 99.740 | ug/L | 0.840 | 0 | 99 | 260419 | 1 |
| Ni | 62 | 99.683 | ug/L | 1.164 | 1 | 62 | 38979 | 0 |
| Cu | 63 | 99.584 | ug/L | 1.575 | 1 | 229 | 581915 | 2 |
| Cu | 65 | 99.906 | ug/L | 1.008 | 1 | 116 | 279461 | 1 |
| Zn | 66 | 99.632 | ug/L | 1.266 | 1 | 545 | 176767 | 0 |
| Zn | 67 | 99.397 | ug/L | 1.976 | 1 | 251 | 29554 | 1 |
| Zn | 68 | 99.676 | ug/L | 0.507 | 0 | 7815 | 131976 | 0 |
| As | 75 | 100.217 | ug/L | 0.733 | 0 | 730 | 180123 | 0 |
| As-1 | 75 | 100.069 | ug/L | 1.141 | 1 | 10537 | 187301 | 0 |
| Se | 82 | 99.746 | ug/L | 0.781 | 0 | -5 | 19905 | 1 |
| Se | 78 | 99.231 | ug/L | 1.410 | 1 | 10699 | 58687 | 0 |
| Mo | 98 | 100.076 | ug/L | 0.863 | 0 | 2478 | 662553 | 1 |
| Y | 89 | | ug/L | | | 288507 | 297583 | 0 |
| Kr | 83 | | ug/L | | | 371 | 386 | 0 |
| > In | 115 | | ug/L | | | 339261 | 342029 | 0 |
| Ag | 107 | 100.171 | ug/L | 0.591 | 0 | 72 | 1133044 | 0 |
| Cd | 111 | 100.509 | ug/L | 0.884 | 0 | 158 | 279627 | 0 |
| Cd | 114 | 100.196 | ug/L | 0.927 | 0 | 25 | 655653 | 1 |
| Sb | 121 | 100.777 | ug/L | 0.879 | 0 | 64 | 953647 | 1 |
| Sb | 123 | 100.959 | ug/L | 0.083 | 0 | 44 | 717342 | 0 |
| Ba | 135 | 100.432 | ug/L | 2.310 | 2 | 25 | 238229 | 1 |
| Ba | 137 | 100.434 | ug/L | 0.787 | 0 | 41 | 411545 | 0 |
| > Tb | 159 | | ug/L | | | 406804 | 416855 | 1 |
| Tl | 205 | 99.044 | ug/L | 0.744 | 0 | 57 | 2794693 | 1 |
| Pb | 208 | 99.300 | ug/L | 1.184 | 1 | 1094 | 3843613 | 0 |
| Bi | 209 | | ug/L | | | 323780 | 322000 | 0 |
| Th | 232 | 100.037 | ug/L | 2.042 | 2 | 267 | 4423303 | 1 |
| U | 238 | 100.187 | ug/L | 0.659 | 0 | 42 | 4734148 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:31:56

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 473160 | 487276 | 2 |
| [Be | 9 | 0.011 | ug/L | 0.013 | 123 | 2 | 7 | 77 |
| C | 13 | | mg/L | | | 5976 | 5761 | 1 |
| Cl | 37 | | mg/L | | | 2184345 | 2316310 | 0 |
| > Sc | 45 | | ug/L | | | 249769 | 264187 | 0 |
| V | 51 | 0.047 | ug/L | 0.024 | 50 | 1708 | 2361 | 12 |
| V-1 | 51 | -0.196 | ug/L | 0.007 | 3 | 10262 | 8516 | 0 |
| Cr | 52 | 0.061 | ug/L | 0.016 | 26 | 6499 | 7499 | 2 |
| Cr | 53 | -0.709 | ug/L | 0.071 | 10 | 3469 | 2815 | 2 |
| Mn | 55 | 0.039 | ug/L | 0.003 | 7 | 733 | 1439 | 3 |
| Co | 59 | 0.010 | ug/L | 0.007 | 70 | 106 | 246 | 38 |
| > Ge | 72 | | ug/L | | | 317543 | 337343 | 0 |
| Ni | 60 | 0.014 | ug/L | 0.009 | 65 | 99 | 142 | 17 |
| Ni | 62 | 0.012 | ug/L | 0.014 | 118 | 62 | 71 | 8 |
| Cu | 63 | 0.014 | ug/L | 0.010 | 74 | 229 | 327 | 19 |
| Cu | 65 | 0.012 | ug/L | 0.008 | 68 | 116 | 157 | 15 |
| Zn | 66 | 0.050 | ug/L | 0.014 | 27 | 545 | 671 | 3 |
| Zn | 67 | -0.073 | ug/L | 0.024 | 33 | 251 | 244 | 2 |
| Zn | 68 | 0.192 | ug/L | 0.041 | 21 | 7815 | 8551 | 0 |
| As | 75 | -0.033 | ug/L | 0.007 | 22 | 730 | 714 | 1 |
| As-1 | 75 | 0.265 | ug/L | 0.092 | 34 | 10537 | 11680 | 0 |
| Se | 82 | -0.052 | ug/L | 0.027 | 52 | -5 | -16 | 34 |
| Se | 78 | 0.971 | ug/L | 0.321 | 33 | 10699 | 11854 | 0 |
| Mo | 98 | -0.310 | ug/L | 0.015 | 4 | 2478 | 500 | 21 |
| Y | 89 | | ug/L | | | 288507 | 312421 | 0 |
| Kr | 83 | | ug/L | | | 371 | 382 | 1 |
| > In | 115 | | ug/L | | | 339261 | 364930 | 1 |
| Ag | 107 | 0.031 | ug/L | 0.010 | 32 | 72 | 452 | 25 |
| Cd | 111 | 0.015 | ug/L | 0.008 | 55 | 158 | 214 | 10 |
| Cd | 114 | 0.011 | ug/L | 0.006 | 50 | 25 | 104 | 36 |
| Sb | 121 | 0.128 | ug/L | 0.034 | 26 | 64 | 1357 | 23 |
| Sb | 123 | 0.122 | ug/L | 0.029 | 23 | 44 | 974 | 21 |
| Ba | 135 | 0.018 | ug/L | 0.009 | 52 | 25 | 71 | 31 |
| Ba | 137 | 0.017 | ug/L | 0.009 | 51 | 41 | 117 | 30 |
| > Tb | 159 | | ug/L | | | 406804 | 433391 | 0 |
| Tl | 205 | 0.031 | ug/L | 0.014 | 44 | 57 | 969 | 41 |
| Pb | 208 | 0.024 | ug/L | 0.011 | 45 | 1094 | 2114 | 20 |
| Bi | 209 | | ug/L | | | 323780 | 345574 | 0 |
| Th | 232 | 0.064 | ug/L | 0.014 | 22 | 267 | 3221 | 19 |
| U | 238 | 0.015 | ug/L | 0.007 | 47 | 42 | 802 | 44 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:44:40

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052112A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | | 477870 | 0 |
| [Be | 9 | | ug/L | | | | 3 | 78 |
| C | 13 | | mg/L | | | | 5654 | 1 |
| Cl | 37 | | mg/L | | | | 2331174 | 0 |
| > Sc | 45 | | ug/L | | | | 262568 | 0 |
| V | 51 | | ug/L | | | | 2402 | 4 |
| V-1 | 51 | | ug/L | | | | 8286 | 2 |
| Cr | 52 | | ug/L | | | | 7360 | 2 |
| Cr | 53 | | ug/L | | | | 2713 | 2 |
| Mn | 55 | | ug/L | | | | 1178 | 4 |
| [Co | 59 | | ug/L | | | | 123 | 9 |
| > Ge | 72 | | ug/L | | | | 333920 | 1 |
| Ni | 60 | | ug/L | | | | 109 | 6 |
| Ni | 62 | | ug/L | | | | 54 | 12 |
| Cu | 63 | | ug/L | | | | 248 | 15 |
| Cu | 65 | | ug/L | | | | 118 | 4 |
| Zn | 66 | | ug/L | | | | 695 | 8 |
| Zn | 67 | | ug/L | | | | 255 | 3 |
| Zn | 68 | | ug/L | | | | 8462 | 0 |
| As | 75 | | ug/L | | | | 693 | 3 |
| As-1 | 75 | | ug/L | | | | 11505 | 0 |
| Se | 82 | | ug/L | | | | -5 | 426 |
| Se | 78 | | ug/L | | | | 11713 | 0 |
| [Mo | 98 | | ug/L | | | | 207 | 5 |
| Y | 89 | | ug/L | | | | 309412 | 0 |
| Kr | 83 | | ug/L | | | | 376 | 5 |
| > In | 115 | | ug/L | | | | 365357 | 0 |
| Ag | 107 | | ug/L | | | | 101 | 3 |
| Cd | 111 | | ug/L | | | | 166 | 12 |
| Cd | 114 | | ug/L | | | | 27 | 9 |
| Sb | 121 | | ug/L | | | | 240 | 11 |
| Sb | 123 | | ug/L | | | | 169 | 3 |
| Ba | 135 | | ug/L | | | | 32 | 13 |
| Ba | 137 | | ug/L | | | | 65 | 11 |
| > Tb | 159 | | ug/L | | | | 430587 | 0 |
| Tl | 205 | | ug/L | | | | 147 | 12 |
| Pb | 208 | | ug/L | | | | 1493 | 2 |
| Bi | 209 | | ug/L | | | | 345109 | 0 |
| Th | 232 | | ug/L | | | | 719 | 5 |
| [U | 238 | | ug/L | | | | 97 | 5 |

Quantitative Analysis - Calibration Report

Sample Date/Time: Wednesday, May 23, 2012 16:44:40

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.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 | 0.0009 | 10 | 20 | 50 | 100 | |
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| V | 51 | 1.0000 | 0.0445 | 10 | 20 | 50 | 100 | |
| V-1 | 51 | 1.0000 | 0.0451 | 10 | 20 | 50 | 100 | |
| Cr | 52 | 1.0000 | 0.0386 | 10 | 20 | 50 | 100 | |
| Cr | 53 | 1.0000 | 0.0046 | 10 | 20 | 50 | 100 | |
| Mn | 55 | 1.0000 | 0.0652 | 10 | 20 | 50 | 100 | |
| Co | 59 | 1.0000 | 0.0496 | 10 | 20 | 50 | 100 | |
| Ge | 72 | | | | | | | |
| Ni | 60 | 1.0000 | 0.0081 | 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 | 0.0086 | 10 | 20 | 50 | 100 | |
| Zn | 66 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| Zn | 67 | 0.9999 | 0.0009 | 10 | 20 | 50 | 100 | |
| Zn | 68 | 1.0000 | 0.0038 | 10 | 20 | 50 | 100 | |
| As | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| As-1 | 75 | 1.0000 | 0.0055 | 10 | 20 | 50 | 100 | |
| Se | 82 | 1.0000 | 0.0006 | 10 | 20 | 50 | 100 | |
| Se | 78 | 0.9999 | 0.0015 | 10 | 20 | 50 | 100 | |
| Mo | 98 | 1.0000 | 0.0204 | 10 | 20 | 50 | 100 | |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In | 115 | | | | | | | |
| Ag | 107 | 1.0000 | 0.0331 | 10 | 20 | 50 | 100 | |
| Cd | 111 | 1.0000 | 0.0081 | 10 | 20 | 50 | 100 | |
| Cd | 114 | 1.0000 | 0.0191 | 10 | 20 | 50 | 100 | |
| Sb | 121 | 0.9999 | 0.0277 | 10 | 20 | 50 | 100 | |
| Sb | 123 | 0.9998 | 0.0208 | 10 | 20 | 50 | 100 | |
| Ba | 135 | 1.0000 | 0.0069 | 10 | 20 | 50 | 100 | |
| Ba | 137 | 1.0000 | 0.0120 | 10 | 20 | 50 | 100 | |
| Tb | 159 | | | | | | | |
| Tl | 205 | 0.9998 | 0.0677 | 10 | 20 | 50 | 100 | |
| Pb | 208 | 0.9999 | 0.0928 | 10 | 20 | 50 | 100 | |
| Bi | 209 | | | | | | | |
| Th | 232 | 1.0000 | 0.1061 | 10 | 20 | 50 | 100 | |
| U | 238 | 1.0000 | 0.1134 | 10 | 20 | 50 | 100 | |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:51:46

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 490658 | 1 |
| [Be | 9 | 50.329 | ug/L | 0.667 | 1 | 3 | 22884 | 1 |
| C | 13 | | mg/L | | | 5654 | 7550 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2345847 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 267637 | 1 |
| V | 51 | 48.598 | ug/L | 0.200 | 0 | 2402 | 581238 | 1 |
| V-1 | 51 | 48.631 | ug/L | 0.105 | 0 | 8286 | 595547 | 1 |
| Cr | 52 | 49.119 | ug/L | 0.567 | 1 | 7360 | 515132 | 1 |
| Cr | 53 | 49.203 | ug/L | 0.361 | 0 | 2713 | 62785 | 2 |
| Mn | 55 | 48.501 | ug/L | 0.409 | 0 | 1178 | 847437 | 2 |
| [Co | 59 | 48.981 | ug/L | 0.841 | 1 | 123 | 649648 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 341258 | 0 |
| Ni | 60 | 49.563 | ug/L | 0.460 | 0 | 109 | 136610 | 0 |
| Ni | 62 | 49.332 | ug/L | 0.171 | 0 | 54 | 20378 | 0 |
| Cu | 63 | 49.056 | ug/L | 0.537 | 1 | 248 | 302605 | 0 |
| Cu | 65 | 48.999 | ug/L | 0.362 | 0 | 118 | 144692 | 0 |
| Zn | 66 | 48.273 | ug/L | 0.483 | 1 | 695 | 90807 | 0 |
| Zn | 67 | 49.539 | ug/L | 0.660 | 1 | 255 | 15670 | 1 |
| Zn | 68 | 48.143 | ug/L | 0.594 | 1 | 8462 | 71858 | 1 |
| As | 75 | 49.584 | ug/L | 0.224 | 0 | 693 | 94363 | 0 |
| As-1 | 75 | 48.738 | ug/L | 0.216 | 0 | 11505 | 102511 | 0 |
| Se | 82 | 77.878 | ug/L | 0.453 | 0 | -5 | 16398 | 0 |
| Se | 78 | 76.298 | ug/L | 1.121 | 1 | 11713 | 50749 | 1 |
| [Mo | 98 | 49.643 | ug/L | 0.953 | 1 | 207 | 345716 | 2 |
| Y | 89 | | ug/L | | | 309412 | 313650 | 0 |
| Kr | 83 | | ug/L | | | 376 | 387 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 362326 | 1 |
| Ag | 107 | 49.851 | ug/L | 0.400 | 0 | 101 | 597386 | 1 |
| Cd | 111 | 49.256 | ug/L | 0.545 | 1 | 166 | 145259 | 2 |
| Cd | 114 | 48.851 | ug/L | 0.251 | 0 | 27 | 338655 | 1 |
| Sb | 121 | 48.941 | ug/L | 0.752 | 1 | 240 | 490800 | 1 |
| Sb | 123 | 49.006 | ug/L | 0.329 | 0 | 169 | 368995 | 0 |
| Ba | 135 | 49.185 | ug/L | 1.163 | 2 | 32 | 123600 | 1 |
| [Ba | 137 | 49.321 | ug/L | 0.412 | 0 | 65 | 214139 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 435941 | 0 |
| Tl | 205 | 50.663 | ug/L | 0.458 | 0 | 147 | 1495146 | 1 |
| Pb | 208 | 50.491 | ug/L | 0.289 | 0 | 1493 | 2044953 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 346330 | 0 |
| Th | 232 | 49.542 | ug/L | 0.446 | 0 | 719 | 2291656 | 0 |
| [U | 238 | 49.858 | ug/L | 0.616 | 1 | 97 | 2463790 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 16:58:24

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 476869 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.004 | 227 | 3 | 4 | 45 |
| C | 13 | | mg/L | | | 5654 | 5906 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2362729 | 1 |
| > Sc | 45 | | ug/L | | | 262568 | 259437 | 0 |
| V | 51 | -0.013 | ug/L | 0.016 | 125 | 2402 | 2220 | 7 |
| V-1 | 51 | -0.010 | ug/L | 0.016 | 164 | 8286 | 8071 | 2 |
| Cr | 52 | -0.015 | ug/L | 0.005 | 34 | 7360 | 7126 | 1 |
| Cr | 53 | -0.005 | ug/L | 0.075 | 1654 | 2713 | 2676 | 3 |
| Mn | 55 | -0.018 | ug/L | 0.004 | 22 | 1178 | 864 | 8 |
| [Co | 59 | 0.002 | ug/L | 0.002 | 100 | 123 | 150 | 20 |
| > Ge | 72 | | ug/L | | | 333920 | 332412 | 0 |
| Ni | 60 | -0.003 | ug/L | 0.001 | 44 | 109 | 101 | 3 |
| Ni | 62 | 0.030 | ug/L | 0.006 | 20 | 54 | 65 | 3 |
| Cu | 63 | -0.001 | ug/L | 0.004 | 442 | 248 | 242 | 10 |
| Cu | 65 | 0.000 | ug/L | 0.003 | 786 | 118 | 119 | 6 |
| Zn | 66 | -0.121 | ug/L | 0.013 | 10 | 695 | 472 | 5 |
| Zn | 67 | -0.128 | ug/L | 0.027 | 21 | 255 | 215 | 3 |
| Zn | 68 | -0.161 | ug/L | 0.022 | 13 | 8462 | 8218 | 0 |
| As | 75 | 0.020 | ug/L | 0.017 | 86 | 693 | 726 | 4 |
| As-1 | 75 | -0.035 | ug/L | 0.100 | 287 | 11505 | 11391 | 1 |
| Se | 82 | -0.006 | ug/L | 0.076 | 1204 | -5 | -6 | 232 |
| Se | 78 | -0.191 | ug/L | 0.301 | 157 | 11713 | 11566 | 1 |
| [Mo | 98 | 0.005 | ug/L | 0.007 | 146 | 207 | 240 | 20 |
| Y | 89 | | ug/L | | | 309412 | 303762 | 0 |
| Kr | 83 | | ug/L | | | 376 | 377 | 4 |
| > In | 115 | | ug/L | | | 365357 | 356275 | 1 |
| Ag | 107 | 0.012 | ug/L | 0.007 | 56 | 101 | 240 | 32 |
| Cd | 111 | 0.008 | ug/L | 0.003 | 38 | 166 | 185 | 4 |
| Cd | 114 | 0.004 | ug/L | 0.002 | 59 | 27 | 54 | 29 |
| Sb | 121 | 0.022 | ug/L | 0.011 | 51 | 240 | 446 | 24 |
| Sb | 123 | 0.021 | ug/L | 0.013 | 60 | 169 | 317 | 28 |
| Ba | 135 | 0.004 | ug/L | 0.003 | 81 | 32 | 41 | 18 |
| [Ba | 137 | -0.003 | ug/L | 0.003 | 114 | 65 | 52 | 23 |
| > Tb | 159 | | ug/L | | | 430587 | 420529 | 1 |
| Tl | 205 | 0.011 | ug/L | 0.005 | 49 | 147 | 449 | 33 |
| Pb | 208 | 0.005 | ug/L | 0.005 | 90 | 1493 | 1673 | 11 |
| Bi | 209 | | ug/L | | | 345109 | 340783 | 0 |
| Th | 232 | 0.022 | ug/L | 0.008 | 34 | 719 | 1680 | 20 |
| [U | 238 | 0.006 | ug/L | 0.003 | 60 | 97 | 359 | 44 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:04:12

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 469254 | 1 |
| [Be | 9 | 51.262 | ug/L | 0.316 | 0 | 3 | 22294 | 1 |
| C | 13 | | mg/L | | | 5654 | 5295 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2354500 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 255460 | 1 |
| V | 51 | 49.087 | ug/L | 1.561 | 3 | 2402 | 560238 | 1 |
| V-1 | 51 | 49.229 | ug/L | 1.315 | 2 | 8286 | 575223 | 1 |
| Cr | 52 | 49.713 | ug/L | 0.940 | 1 | 7360 | 497521 | 0 |
| Cr | 53 | 50.136 | ug/L | 0.346 | 0 | 2713 | 61012 | 1 |
| Mn | 55 | 48.433 | ug/L | 0.785 | 1 | 1178 | 807635 | 0 |
| [Co | 59 | 49.292 | ug/L | 0.926 | 1 | 123 | 624040 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 327011 | 0 |
| Ni | 60 | 49.661 | ug/L | 0.981 | 1 | 109 | 131158 | 1 |
| Ni | 62 | 49.977 | ug/L | 0.511 | 1 | 54 | 19781 | 0 |
| Cu | 63 | 50.116 | ug/L | 0.801 | 1 | 248 | 296217 | 0 |
| Cu | 65 | 49.766 | ug/L | 0.535 | 1 | 118 | 140817 | 0 |
| Zn | 66 | 50.319 | ug/L | 0.675 | 1 | 695 | 90671 | 0 |
| Zn | 67 | 50.598 | ug/L | 0.281 | 0 | 255 | 15332 | 1 |
| Zn | 68 | 50.727 | ug/L | 0.776 | 1 | 8462 | 72105 | 0 |
| As | 75 | 50.389 | ug/L | 0.610 | 1 | 693 | 91878 | 0 |
| As-1 | 75 | 50.259 | ug/L | 0.528 | 1 | 11505 | 100942 | 0 |
| Se | 82 | 49.944 | ug/L | 0.737 | 1 | -5 | 10075 | 0 |
| Se | 78 | 49.542 | ug/L | 0.550 | 1 | 11713 | 35598 | 0 |
| [Mo | 98 | 49.828 | ug/L | 0.533 | 1 | 207 | 332501 | 0 |
| Y | 89 | | ug/L | | | 309412 | 302099 | 0 |
| Kr | 83 | | ug/L | | | 376 | 386 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 348408 | 0 |
| Ag | 107 | 50.316 | ug/L | 0.788 | 1 | 101 | 579792 | 1 |
| Cd | 111 | 49.933 | ug/L | 0.400 | 0 | 166 | 141585 | 0 |
| Cd | 114 | 49.793 | ug/L | 0.310 | 0 | 27 | 331917 | 1 |
| Sb | 121 | 49.547 | ug/L | 0.616 | 1 | 240 | 477772 | 0 |
| Sb | 123 | 50.183 | ug/L | 0.433 | 0 | 169 | 363347 | 0 |
| Ba | 135 | 49.533 | ug/L | 0.270 | 0 | 32 | 119711 | 0 |
| [Ba | 137 | 49.505 | ug/L | 0.391 | 0 | 65 | 206677 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 421335 | 1 |
| Tl | 205 | 51.086 | ug/L | 0.895 | 1 | 147 | 1456924 | 0 |
| Pb | 208 | 50.629 | ug/L | 0.666 | 1 | 1493 | 1981624 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 331041 | 0 |
| Th | 232 | 49.579 | ug/L | 0.963 | 1 | 719 | 2216279 | 0 |
| [U | 238 | 50.221 | ug/L | 0.818 | 1 | 97 | 2398467 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:10:50

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 466536 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.007 | 238 | 3 | 4 | 68 |
| C | 13 | | mg/L | | | 5654 | 5708 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2368194 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 254681 | 1 |
| V | 51 | -0.033 | ug/L | 0.013 | 39 | 2402 | 1950 | 6 |
| V-1 | 51 | 0.010 | ug/L | 0.021 | 210 | 8286 | 8147 | 1 |
| Cr | 52 | -0.029 | ug/L | 0.003 | 11 | 7360 | 6852 | 1 |
| Cr | 53 | 0.107 | ug/L | 0.047 | 44 | 2713 | 2756 | 2 |
| Mn | 55 | -0.020 | ug/L | 0.003 | 12 | 1178 | 803 | 7 |
| Co | 59 | 0.002 | ug/L | 0.004 | 206 | 123 | 145 | 37 |
| [> Ge | 72 | | ug/L | | | 333920 | 324380 | 1 |
| Ni | 60 | -0.003 | ug/L | 0.006 | 210 | 109 | 98 | 16 |
| Ni | 62 | 0.004 | ug/L | 0.026 | 670 | 54 | 54 | 19 |
| Cu | 63 | -0.002 | ug/L | 0.003 | 126 | 248 | 229 | 7 |
| Cu | 65 | 0.000 | ug/L | 0.008 | 3244 | 118 | 116 | 20 |
| Zn | 66 | -0.094 | ug/L | 0.013 | 13 | 695 | 509 | 3 |
| Zn | 67 | -0.139 | ug/L | 0.031 | 22 | 255 | 207 | 3 |
| Zn | 68 | -0.227 | ug/L | 0.047 | 20 | 8462 | 7938 | 2 |
| As | 75 | 0.042 | ug/L | 0.009 | 21 | 693 | 749 | 0 |
| As-1 | 75 | -0.090 | ug/L | 0.070 | 77 | 11505 | 11019 | 2 |
| Se | 82 | -0.077 | ug/L | 0.011 | 14 | -5 | -20 | 9 |
| Se | 78 | -0.393 | ug/L | 0.259 | 65 | 11713 | 11190 | 2 |
| Mo | 98 | 0.001 | ug/L | 0.009 | 786 | 207 | 209 | 27 |
| Y | 89 | | ug/L | | | 309412 | 296782 | 1 |
| Kr | 83 | | ug/L | | | 376 | 398 | 0 |
| [> In | 115 | | ug/L | | | 365357 | 342170 | 3 |
| Ag | 107 | 0.013 | ug/L | 0.006 | 49 | 101 | 241 | 31 |
| Cd | 111 | 0.003 | ug/L | 0.006 | 180 | 166 | 165 | 8 |
| Cd | 114 | 0.005 | ug/L | 0.004 | 76 | 27 | 60 | 45 |
| Sb | 121 | 0.042 | ug/L | 0.014 | 33 | 240 | 620 | 22 |
| Sb | 123 | 0.043 | ug/L | 0.012 | 28 | 169 | 462 | 20 |
| Ba | 135 | 0.005 | ug/L | 0.005 | 105 | 32 | 42 | 30 |
| Ba | 137 | 0.001 | ug/L | 0.002 | 223 | 65 | 64 | 12 |
| [> Tb | 159 | | ug/L | | | 430587 | 410680 | 2 |
| Tl | 205 | 0.011 | ug/L | 0.005 | 42 | 147 | 453 | 30 |
| Pb | 208 | 0.011 | ug/L | 0.005 | 42 | 1493 | 1845 | 10 |
| Bi | 209 | | ug/L | | | 345109 | 332046 | 1 |
| Th | 232 | 0.032 | ug/L | 0.010 | 32 | 719 | 2070 | 22 |
| U | 238 | 0.006 | ug/L | 0.003 | 48 | 97 | 391 | 38 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:16:39

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 454399 | 0 |
| [Be | 9 | 0.240 | ug/L | 0.051 | 21 | 3 | 104 | 20 |
| C | 13 | | mg/L | | | 5654 | 5522 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2375579 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 250205 | 1 |
| V | 51 | 0.173 | ug/L | 0.012 | 7 | 2402 | 4209 | 1 |
| V-1 | 51 | 0.249 | ug/L | 0.020 | 7 | 8286 | 10709 | 2 |
| Cr | 52 | 0.446 | ug/L | 0.018 | 4 | 7360 | 11317 | 0 |
| Cr | 53 | 0.677 | ug/L | 0.034 | 5 | 2713 | 3357 | 1 |
| Mn | 55 | 0.453 | ug/L | 0.014 | 3 | 1178 | 8514 | 1 |
| [Co | 59 | 0.200 | ug/L | 0.004 | 2 | 123 | 2593 | 2 |
| > Ge | 72 | | ug/L | | | 333920 | 317664 | 1 |
| Ni | 60 | 0.516 | ug/L | 0.025 | 4 | 109 | 1427 | 4 |
| Ni | 62 | 0.527 | ug/L | 0.047 | 8 | 54 | 253 | 5 |
| Cu | 63 | 0.555 | ug/L | 0.010 | 1 | 248 | 3420 | 1 |
| Cu | 65 | 0.548 | ug/L | 0.017 | 3 | 118 | 1617 | 1 |
| Zn | 66 | 4.241 | ug/L | 0.074 | 1 | 695 | 8029 | 0 |
| Zn | 67 | 3.763 | ug/L | 0.039 | 1 | 255 | 1332 | 2 |
| Zn | 68 | 4.018 | ug/L | 0.136 | 3 | 8462 | 12959 | 0 |
| As | 75 | 0.278 | ug/L | 0.022 | 8 | 693 | 1148 | 3 |
| As-1 | 75 | -0.019 | ug/L | 0.088 | 462 | 11505 | 10911 | 0 |
| Se | 82 | 0.463 | ug/L | 0.035 | 7 | -5 | 85 | 9 |
| Se | 78 | -0.466 | ug/L | 0.265 | 56 | 11713 | 10922 | 0 |
| [Mo | 98 | 0.180 | ug/L | 0.008 | 4 | 207 | 1362 | 3 |
| Y | 89 | | ug/L | | | 309412 | 287442 | 1 |
| Kr | 83 | | ug/L | | | 376 | 385 | 1 |
| > In | 115 | | ug/L | | | 365357 | 335790 | 2 |
| Ag | 107 | 0.192 | ug/L | 0.003 | 1 | 101 | 2228 | 0 |
| Cd | 111 | 0.103 | ug/L | 0.008 | 8 | 166 | 435 | 5 |
| Cd | 114 | 0.106 | ug/L | 0.004 | 4 | 27 | 705 | 2 |
| Sb | 121 | 0.204 | ug/L | 0.012 | 5 | 240 | 2114 | 3 |
| Sb | 123 | 0.208 | ug/L | 0.004 | 2 | 169 | 1606 | 1 |
| Ba | 135 | 0.538 | ug/L | 0.017 | 3 | 32 | 1281 | 1 |
| [Ba | 137 | 0.520 | ug/L | 0.000 | 0 | 65 | 2150 | 2 |
| > Tb | 159 | | ug/L | | | 430587 | 402179 | 0 |
| Tl | 205 | 0.214 | ug/L | 0.003 | 1 | 147 | 5969 | 1 |
| Pb | 208 | 0.114 | ug/L | 0.003 | 2 | 1493 | 5660 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 320387 | 1 |
| Th | 232 | 0.216 | ug/L | 0.002 | 1 | 719 | 9873 | 0 |
| [U | 238 | 0.207 | ug/L | 0.007 | 3 | 97 | 9549 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:22:26

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 470316 | 1 |
| [Be | 9 | -0.003 | ug/L | 0.003 | 119 | 3 | 2 | 69 |
| C | 13 | | mg/L | | | 5654 | 19819 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 3741035 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 252171 | 0 |
| V | 51 | -0.036 | ug/L | 0.068 | 187 | 2402 | 1897 | 40 |
| V-1 | 51 | 0.529 | ug/L | 0.043 | 8 | 8286 | 13978 | 3 |
| Cr | 52 | 0.701 | ug/L | 0.027 | 3 | 7360 | 13897 | 1 |
| Cr | 53 | 2.460 | ug/L | 0.118 | 4 | 2713 | 5433 | 3 |
| Mn | 55 | 0.040 | ug/L | 0.005 | 13 | 1178 | 1795 | 5 |
| Co | 59 | 0.012 | ug/L | 0.001 | 9 | 123 | 274 | 5 |
| [> Ge | 72 | | ug/L | | | 333920 | 325562 | 1 |
| Ni | 60 | 0.559 | ug/L | 0.008 | 1 | 109 | 1574 | 1 |
| Ni | 62 | 3.622 | ug/L | 0.126 | 3 | 54 | 1476 | 3 |
| Cu | 63 | 0.493 | ug/L | 0.021 | 4 | 248 | 3143 | 5 |
| Cu | 65 | 0.545 | ug/L | 0.015 | 2 | 118 | 1649 | 3 |
| Zn | 66 | 1.115 | ug/L | 0.053 | 4 | 695 | 2663 | 3 |
| Zn | 67 | 1.810 | ug/L | 0.058 | 3 | 255 | 785 | 0 |
| Zn | 68 | 0.351 | ug/L | 0.093 | 26 | 8462 | 8691 | 2 |
| As | 75 | 0.026 | ug/L | 0.044 | 168 | 693 | 721 | 9 |
| As-1 | 75 | -0.073 | ug/L | 0.044 | 60 | 11505 | 11088 | 1 |
| Se | 82 | -0.077 | ug/L | 0.034 | 43 | -5 | -20 | 33 |
| Se | 78 | -0.232 | ug/L | 0.275 | 118 | 11713 | 11308 | 2 |
| [Mo | 98 | 401.580 | ug/L | 8.145 | 2 | 207 | 2666752 | 3 |
| Y | 89 | | ug/L | | | 309412 | 300936 | 1 |
| Kr | 83 | | ug/L | | | 376 | 406 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 345777 | 1 |
| Ag | 107 | 0.032 | ug/L | 0.005 | 17 | 101 | 457 | 12 |
| Cd | 111 | 0.015 | ug/L | 0.013 | 86 | 166 | 200 | 17 |
| Cd | 114 | 0.592 | ug/L | 0.017 | 2 | 27 | 3940 | 3 |
| Sb | 121 | 0.046 | ug/L | 0.004 | 9 | 240 | 666 | 5 |
| Sb | 123 | 0.047 | ug/L | 0.001 | 1 | 169 | 501 | 0 |
| Ba | 135 | 0.041 | ug/L | 0.004 | 9 | 32 | 130 | 5 |
| [Ba | 137 | 0.028 | ug/L | 0.001 | 4 | 65 | 177 | 3 |
| [> Tb | 159 | | ug/L | | | 430587 | 415988 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.001 | 60 | 147 | 210 | 18 |
| Pb | 208 | 0.064 | ug/L | 0.005 | 8 | 1493 | 3921 | 4 |
| Bi | 209 | | ug/L | | | 345109 | 324605 | 2 |
| Th | 232 | 0.094 | ug/L | 0.002 | 1 | 719 | 4864 | 0 |
| [U | 238 | 0.001 | ug/L | 0.000 | 14 | 97 | 131 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:28:44

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 474105 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.004 | 499 | 3 | 2 | 65 |
| C | 13 | | mg/L | | | 5654 | 20023 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 3727900 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 252874 | 0 |
| V | 51 | -0.422 | ug/L | 0.081 | 19 | 2402 | -2431 | 36 |
| V-1 | 51 | 0.633 | ug/L | 0.040 | 6 | 8286 | 15204 | 2 |
| Cr | 52 | 20.117 | ug/L | 0.071 | 0 | 7360 | 203536 | 0 |
| Cr | 53 | 22.583 | ug/L | 0.304 | 1 | 2713 | 28639 | 0 |
| Mn | 55 | 19.811 | ug/L | 0.068 | 0 | 1178 | 324416 | 0 |
| [Co | 59 | 19.251 | ug/L | 0.058 | 0 | 123 | 241358 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 325764 | 0 |
| Ni | 60 | 19.228 | ug/L | 0.265 | 1 | 109 | 50658 | 1 |
| Ni | 62 | 22.485 | ug/L | 0.123 | 0 | 54 | 8895 | 0 |
| Cu | 63 | 20.010 | ug/L | 0.211 | 1 | 248 | 117973 | 1 |
| Cu | 65 | 20.336 | ug/L | 0.378 | 1 | 118 | 57394 | 1 |
| Zn | 66 | 20.091 | ug/L | 0.159 | 0 | 695 | 36474 | 0 |
| Zn | 67 | 19.264 | ug/L | 0.142 | 0 | 255 | 5969 | 0 |
| Zn | 68 | 18.989 | ug/L | 0.291 | 1 | 8462 | 32055 | 1 |
| As | 75 | 19.592 | ug/L | 0.069 | 0 | 693 | 36002 | 0 |
| As-1 | 75 | 19.801 | ug/L | 0.065 | 0 | 11505 | 46421 | 0 |
| Se | 82 | -0.110 | ug/L | 0.066 | 60 | -5 | -27 | 48 |
| Se | 78 | -0.133 | ug/L | 0.130 | 97 | 11713 | 11363 | 0 |
| [Mo | 98 | 403.264 | ug/L | 4.194 | 1 | 207 | 2679376 | 1 |
| Y | 89 | | ug/L | | | 309412 | 302450 | 1 |
| Kr | 83 | | ug/L | | | 376 | 414 | 2 |
| > In | 115 | | ug/L | | | 365357 | 350106 | 0 |
| Ag | 107 | 18.887 | ug/L | 0.120 | 0 | 101 | 218764 | 1 |
| Cd | 111 | 19.424 | ug/L | 0.169 | 0 | 166 | 55447 | 1 |
| Cd | 114 | 19.934 | ug/L | 0.221 | 1 | 27 | 133545 | 1 |
| Sb | 121 | 0.051 | ug/L | 0.001 | 2 | 240 | 723 | 1 |
| Sb | 123 | 0.054 | ug/L | 0.003 | 6 | 169 | 553 | 4 |
| Ba | 135 | 0.037 | ug/L | 0.001 | 3 | 32 | 120 | 2 |
| [Ba | 137 | 0.043 | ug/L | 0.011 | 25 | 65 | 243 | 19 |
| > Tb | 159 | | ug/L | | | 430587 | 421707 | 1 |
| Tl | 205 | -0.000 | ug/L | 0.000 | 718 | 147 | 142 | 10 |
| Pb | 208 | 0.057 | ug/L | 0.003 | 5 | 1493 | 3696 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 323958 | 0 |
| Th | 232 | 0.051 | ug/L | 0.002 | 2 | 719 | 2979 | 1 |
| [U | 238 | 0.001 | ug/L | 0.000 | 66 | 97 | 121 | 14 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:35:01

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 463400 | 1 |
| [Be | 9 | 205.147 | ug/L | 3.477 | 1 | 3 | 88095 | 1 |
| C | 13 | | mg/L | | | 5654 | 5910 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2308965 | 1 |
| > Sc | 45 | | ug/L | | | 262568 | 256335 | 0 |
| V | 51 | 192.853 | ug/L | 0.854 | 0 | 2402 | 2202290 | 0 |
| V-1 | 51 | 193.585 | ug/L | 0.648 | 0 | 8286 | 2246457 | 0 |
| Cr | 52 | 197.678 | ug/L | 2.817 | 1 | 7360 | 1964012 | 1 |
| Cr | 53 | 199.787 | ug/L | 2.008 | 1 | 2713 | 236057 | 0 |
| Mn | 55 | 190.327 | ug/L | 0.620 | 0 | 1178 | 3181645 | 0 |
| Co | 59 | 189.183 | ug/L | 0.974 | 0 | 123 | 2403292 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 330664 | 0 |
| Ni | 60 | 193.944 | ug/L | 1.741 | 0 | 109 | 517670 | 0 |
| Ni | 62 | 192.108 | ug/L | 0.963 | 0 | 54 | 76738 | 0 |
| Cu | 63 | 194.808 | ug/L | 2.399 | 1 | 248 | 1163623 | 0 |
| Cu | 65 | 192.066 | ug/L | 0.804 | 0 | 118 | 549240 | 1 |
| Zn | 66 | 190.922 | ug/L | 2.185 | 1 | 695 | 345969 | 1 |
| Zn | 67 | 193.029 | ug/L | 2.109 | 1 | 255 | 58430 | 0 |
| Zn | 68 | 191.440 | ug/L | 1.586 | 0 | 8462 | 251926 | 0 |
| As | 75 | 198.413 | ug/L | 1.170 | 0 | 693 | 363822 | 0 |
| As-1 | 75 | 198.170 | ug/L | 1.141 | 0 | 11505 | 368934 | 0 |
| Se | 82 | 194.565 | ug/L | 0.199 | 0 | -5 | 39706 | 0 |
| Se | 78 | 193.745 | ug/L | 1.725 | 0 | 11713 | 107008 | 0 |
| Mo | 98 | 203.625 | ug/L | 2.016 | 0 | 207 | 1373350 | 0 |
| Y | 89 | | ug/L | | | 309412 | 303605 | 1 |
| Kr | 83 | | ug/L | | | 376 | 422 | 2 |
| > In | 115 | | ug/L | | | 365357 | 349771 | 0 |
| Ag | 107 | 190.844 | ug/L | 2.807 | 1 | 101 | 2207474 | 1 |
| Cd | 111 | 196.856 | ug/L | 1.914 | 0 | 166 | 559902 | 0 |
| Cd | 114 | 198.789 | ug/L | 1.426 | 0 | 27 | 1330153 | 0 |
| Sb | 121 | 202.624 | ug/L | 1.252 | 0 | 240 | 1960856 | 0 |
| Sb | 123 | 201.464 | ug/L | 0.548 | 0 | 169 | 1463918 | 0 |
| Ba | 135 | 201.654 | ug/L | 0.550 | 0 | 32 | 489170 | 0 |
| Ba | 137 | 200.866 | ug/L | 3.108 | 1 | 65 | 841758 | 2 |
| > Tb | 159 | | ug/L | | | 430587 | 426006 | 1. |
| Tl | 205 | 196.419 | ug/L | 1.576 | 0 | 147 | 5664018 | 1 |
| Pb | 208 | 197.757 | ug/L | 1.080 | 0 | 1493 | 7822357 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 331961 | 0 |
| Th | 232 | 203.455 | ug/L | 0.324 | 0 | 719 | 9195010 | 1 |
| U | 238 | 203.804 | ug/L | 1.885 | 0 | 97 | 9841383 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:41:36

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 448573 | 1 |
| [Be | 9 | 300.500 | ug/L | 4.629 | 1 | 3 | 124906 | 1 |
| C | 13 | | mg/L | | | 5654 | 5278 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2341588 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 254296 | 0 |
| V | 51 | 291.382 | ug/L | 3.216 | 1 | 2402 | 3299738 | 1 |
| V-1 | 51 | 294.508 | ug/L | 3.423 | 1 | 8286 | 3386227 | 1 |
| Cr | 52 | 288.530 | ug/L | 3.929 | 1 | 7360 | 2840417 | 0 |
| Cr | 53 | 298.544 | ug/L | 3.902 | 1 | 2713 | 348626 | 1 |
| Mn | 55 | 288.024 | ug/L | 5.757 | 1 | 1178 | 4775787 | 1 |
| [Co | 59 | 284.056 | ug/L | 5.008 | 1 | 123 | 3579487 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 331517 | 1 |
| Ni | 60 | 286.843 | ug/L | 5.690 | 1 | 109 | 767454 | 0 |
| Ni | 62 | 284.179 | ug/L | 4.032 | 1 | 54 | 113778 | 1 |
| Cu | 63 | 285.585 | ug/L | 4.047 | 1 | 248 | 1710047 | 0 |
| Cu | 65 | 283.631 | ug/L | 4.546 | 1 | 118 | 813034 | 1 |
| Zn | 66 | 277.391 | ug/L | 5.658 | 2 | 695 | 503587 | 1 |
| Zn | 67 | 281.162 | ug/L | 4.182 | 1 | 255 | 85208 | 0 |
| Zn | 68 | 278.520 | ug/L | 4.125 | 1 | 8462 | 363638 | 1 |
| As | 75 | 293.932 | ug/L | 2.381 | 0 | 693 | 540005 | 0 |
| As-1 | 75 | 294.094 | ug/L | 2.210 | 0 | 11505 | 543381 | 0 |
| Se | 82 | 279.634 | ug/L | 4.711 | 1 | -5 | 57209 | 0 |
| Se | 78 | 279.825 | ug/L | 4.584 | 1 | 11713 | 149771 | 0 |
| [Mo | 98 | 298.035 | ug/L | 2.017 | 0 | 207 | 2015184 | 1 |
| Y | 89 | | ug/L | | | 309412 | 304443 | 1 |
| Kr | 83 | | ug/L | | | 376 | 438 | 3 |
| > In | 115 | | ug/L | | | 365357 | 348492 | 0 |
| Ag | 107 | 283.867 | ug/L | 3.424 | 1 | 101 | 3271290 | 0 |
| Cd | 111 | 289.611 | ug/L | 3.199 | 1 | 166 | 820608 | 0 |
| Cd | 114 | 291.460 | ug/L | 6.109 | 2 | 27 | 1942952 | 1 |
| Sb | 121 | 294.442 | ug/L | 3.838 | 1 | 240 | 2838775 | 0 |
| Sb | 123 | 294.478 | ug/L | 6.277 | 2 | 169 | 2131768 | 1 |
| Ba | 135 | 298.787 | ug/L | 4.596 | 1 | 32 | 722075 | 0 |
| [Ba | 137 | 300.503 | ug/L | 4.453 | 1 | 65 | 1254496 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 418356 | 0 |
| Tl | 205 | 298.639 | ug/L | 3.682 | 1 | 147 | 8457482 | 1 |
| Pb | 208 | 294.553 | ug/L | 1.270 | 0 | 1493 | 11441671 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 322341 | 1 |
| Th | 232 | 309.549 | ug/L | 2.879 | 0 | 719 | 13738819 | 1 |
| [U | 238 | 308.674 | ug/L | 0.820 | 0 | 97 | 14638930 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:48:13

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 462814 | 0 |
| [Be | 9 | 50.934 | ug/L | 0.245 | 0 | 3 | 21848 | 1 |
| C | 13 | | mg/L | | | 5654 | 5368 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2425456 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 263088 | 1 |
| V | 51 | 48.781 | ug/L | 0.207 | 0 | 2402 | 573543 | 1 |
| V-1 | 51 | 49.031 | ug/L | 0.159 | 0 | 8286 | 590170 | 1 |
| Cr | 52 | 49.242 | ug/L | 0.252 | 0 | 7360 | 507641 | 1 |
| Cr | 53 | 50.011 | ug/L | 0.485 | 0 | 2713 | 62680 | 0 |
| Mn | 55 | 48.342 | ug/L | 0.738 | 1 | 1178 | 830201 | 0 |
| [Co | 59 | 49.576 | ug/L | 1.509 | 3 | 123 | 646291 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 336205 | 0 |
| Ni | 60 | 49.741 | ug/L | 0.475 | 0 | 109 | 135074 | 0 |
| Ni | 62 | 50.403 | ug/L | 0.248 | 0 | 54 | 20511 | 0 |
| Cu | 63 | 50.258 | ug/L | 1.078 | 2 | 248 | 305423 | 1 |
| Cu | 65 | 50.624 | ug/L | 0.295 | 0 | 118 | 147275 | 0 |
| Zn | 66 | 50.740 | ug/L | 0.471 | 0 | 695 | 93999 | 0 |
| Zn | 67 | 51.124 | ug/L | 0.471 | 0 | 255 | 15924 | 0 |
| Zn | 68 | 51.097 | ug/L | 0.606 | 1 | 8462 | 74614 | 0 |
| As | 75 | 50.540 | ug/L | 0.484 | 0 | 693 | 94744 | 0 |
| As-1 | 75 | 50.376 | ug/L | 0.390 | 0 | 11505 | 103997 | 0 |
| Se | 82 | 49.864 | ug/L | 0.605 | 1 | -5 | 10342 | 0 |
| Se | 78 | 49.315 | ug/L | 0.282 | 0 | 11713 | 36486 | 0 |
| [Mo | 98 | 50.020 | ug/L | 0.985 | 1 | 207 | 343167 | 1 |
| Y | 89 | | ug/L | | | 309412 | 307744 | 0 |
| Kr | 83 | | ug/L | | | 376 | 394 | 2 |
| > In | 115 | | ug/L | | | 365357 | 356357 | 0 |
| Ag | 107 | 50.651 | ug/L | 1.440 | 2 | 101 | 596957 | 2 |
| Cd | 111 | 51.045 | ug/L | 0.381 | 0 | 166 | 148037 | 0 |
| Cd | 114 | 49.910 | ug/L | 0.279 | 0 | 27 | 340276 | 0 |
| Sb | 121 | 49.917 | ug/L | 0.257 | 0 | 240 | 492349 | 0 |
| Sb | 123 | 50.457 | ug/L | 0.495 | 0 | 169 | 373691 | 1 |
| Ba | 135 | 49.956 | ug/L | 0.456 | 0 | 32 | 123484 | 0 |
| [Ba | 137 | 49.737 | ug/L | 0.493 | 0 | 65 | 212387 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 430772 | 1 |
| Tl | 205 | 51.189 | ug/L | 0.464 | 0 | 147 | 1492718 | 0 |
| Pb | 208 | 50.879 | ug/L | 0.239 | 0 | 1493 | 2036200 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 336462 | 0 |
| Th | 232 | 51.137 | ug/L | 0.959 | 1 | 719 | 2337251 | 1 |
| [U | 238 | 50.853 | ug/L | 0.595 | 1 | 97 | 2483254 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 17:54:51

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 456010 | 1 |
| [Be | 9 | 0.005 | ug/L | 0.002 | 34 | 3 | 5 | 13 |
| C | 13 | | mg/L | | | 5654 | 5521 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2429105 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 254612 | 1 |
| V | 51 | -0.026 | ug/L | 0.018 | 68 | 2402 | 2037 | 10 |
| V-1 | 51 | 0.061 | ug/L | 0.028 | 45 | 8286 | 8736 | 1 |
| Cr | 52 | -0.027 | ug/L | 0.009 | 34 | 7360 | 6876 | 3 |
| Cr | 53 | 0.249 | ug/L | 0.117 | 47 | 2713 | 2919 | 3 |
| Mn | 55 | -0.010 | ug/L | 0.005 | 46 | 1178 | 974 | 9 |
| Co | 59 | 0.007 | ug/L | 0.005 | 62 | 123 | 213 | 29 |
| [> Ge | 72 | | ug/L | | | 333920 | 331255 | 1 |
| Ni | 60 | 0.002 | ug/L | 0.006 | 284 | 109 | 114 | 14 |
| Ni | 62 | 0.069 | ug/L | 0.028 | 40 | 54 | 81 | 15 |
| Cu | 63 | 0.011 | ug/L | 0.004 | 38 | 248 | 313 | 9 |
| Cu | 65 | 0.003 | ug/L | 0.003 | 84 | 118 | 127 | 6 |
| Zn | 66 | -0.050 | ug/L | 0.018 | 35 | 695 | 599 | 4 |
| Zn | 67 | -0.007 | ug/L | 0.020 | 287 | 255 | 251 | 0 |
| Zn | 68 | -0.109 | ug/L | 0.172 | 157 | 8462 | 8256 | 3 |
| As | 75 | 0.040 | ug/L | 0.006 | 15 | 693 | 761 | 1 |
| As-1 | 75 | -0.170 | ug/L | 0.090 | 52 | 11505 | 11107 | 2 |
| Se | 82 | 0.006 | ug/L | 0.017 | 272 | -5 | -4 | 85 |
| Se | 78 | -0.699 | ug/L | 0.289 | 41 | 11713 | 11276 | 2 |
| Mo | 98 | 0.024 | ug/L | 0.014 | 57 | 207 | 368 | 26 |
| Y | 89 | | ug/L | | | 309412 | 296816 | 2 |
| Kr | 83 | | ug/L | | | 376 | 385 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 347308 | 3 |
| Ag | 107 | 0.035 | ug/L | 0.009 | 25 | 101 | 497 | 23 |
| Cd | 111 | 0.014 | ug/L | 0.002 | 11 | 166 | 197 | 4 |
| Cd | 114 | 0.009 | ug/L | 0.005 | 52 | 27 | 89 | 40 |
| Sb | 121 | 0.176 | ug/L | 0.025 | 14 | 240 | 1920 | 15 |
| Sb | 123 | 0.186 | ug/L | 0.031 | 16 | 169 | 1509 | 18 |
| Ba | 135 | 0.011 | ug/L | 0.002 | 19 | 32 | 57 | 9 |
| Ba | 137 | 0.008 | ug/L | 0.005 | 61 | 65 | 97 | 25 |
| [> Tb | 159 | | ug/L | | | 430587 | 408423 | 2 |
| Tl | 205 | 0.027 | ug/L | 0.009 | 31 | 147 | 903 | 29 |
| Pb | 208 | 0.031 | ug/L | 0.009 | 30 | 1493 | 2579 | 15 |
| Bi | 209 | | ug/L | | | 345109 | 327203 | 2 |
| Th | 232 | 0.065 | ug/L | 0.016 | 24 | 719 | 3504 | 21 |
| U | 238 | 0.013 | ug/L | 0.005 | 40 | 97 | 675 | 37 |

ICP-MS Quantitative Analysis - Summary Report

2939-1

Sample ID: NEW IS

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:01:50

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 442000 | 0 |
| [Be | 9 | 0.007 | ug/L | 0.012 | 172 | 3 | 5 | 81 |
| C | 13 | | mg/L | | | 5654 | 5167 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2442592 | 1 |
| [> Sc | 45 | | ug/L | | | 262568 | 253589 | 0 |
| V | 51 | -0.030 | ug/L | 0.003 | 10 | 2402 | 1980 | 2 |
| V-1 | 51 | 0.072 | ug/L | 0.020 | 27 | 8286 | 8831 | 1 |
| Cr | 52 | -0.063 | ug/L | 0.004 | 6 | 7360 | 6492 | 0 |
| Cr | 53 | 0.263 | ug/L | 0.071 | 26 | 2713 | 2924 | 1 |
| Mn | 55 | -0.043 | ug/L | 0.002 | 3 | 1178 | 419 | 5 |
| Co | 59 | -0.003 | ug/L | 0.001 | 29 | 123 | 78 | 14 |
| [> Ge | 72 | | ug/L | | | 333920 | 331289 | 0 |
| Ni | 60 | -0.014 | ug/L | 0.002 | 15 | 109 | 70 | 8 |
| Ni | 62 | 0.016 | ug/L | 0.027 | 171 | 54 | 60 | 17 |
| Cu | 63 | 0.003 | ug/L | 0.003 | 88 | 248 | 266 | 6 |
| Cu | 65 | 0.001 | ug/L | 0.006 | 730 | 118 | 120 | 13 |
| Zn | 66 | -0.140 | ug/L | 0.022 | 15 | 695 | 436 | 8 |
| Zn | 67 | -0.112 | ug/L | 0.110 | 98 | 255 | 219 | 14 |
| Zn | 68 | -0.299 | ug/L | 0.114 | 38 | 8462 | 8014 | 1 |
| As | 75 | 0.060 | ug/L | 0.012 | 19 | 693 | 797 | 2 |
| As-1 | 75 | -0.383 | ug/L | 0.051 | 13 | 11505 | 10722 | 0 |
| Se | 82 | -0.039 | ug/L | 0.102 | 258 | -5 | -13 | 154 |
| Se | 78 | -1.566 | ug/L | 0.171 | 10 | 11713 | 10848 | 0 |
| Mo | 98 | -0.002 | ug/L | 0.000 | 28 | 207 | 196 | 1 |
| Y | 89 | | ug/L | | | 309412 | 291502 | 0 |
| Kr | 83 | | ug/L | | | 376 | 391 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 342532 | 0 |
| Ag | 107 | 0.015 | ug/L | 0.003 | 20 | 101 | 266 | 13 |
| Cd | 111 | 0.003 | ug/L | 0.002 | 70 | 166 | 163 | 3 |
| Cd | 114 | 0.004 | ug/L | 0.002 | 59 | 27 | 48 | 28 |
| Sb | 121 | 0.073 | ug/L | 0.006 | 7 | 240 | 915 | 5 |
| Sb | 123 | 0.080 | ug/L | 0.011 | 14 | 169 | 726 | 11 |
| Ba | 135 | 0.009 | ug/L | 0.003 | 36 | 32 | 52 | 14 |
| Ba | 137 | 0.006 | ug/L | 0.000 | 8 | 65 | 85 | 2 |
| [> Tb | 159 | | ug/L | | | 430587 | 407105 | 0 |
| Tl | 205 | 0.008 | ug/L | 0.001 | 17 | 147 | 369 | 10 |
| Pb | 208 | 0.023 | ug/L | 0.003 | 13 | 1493 | 2291 | 4 |
| Bi | 209 | | ug/L | | | 345109 | 330518 | 0 |
| Th | 232 | 0.033 | ug/L | 0.004 | 12 | 719 | 2090 | 7 |
| U | 238 | 0.003 | ug/L | 0.000 | 17 | 97 | 210 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:07:38

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 459563 | 1 |
| [Be | 9 | 0.001 | ug/L | 0.008 | 587 | 3 | 3 | 88 |
| C | 13 | | mg/L | | | 5654 | 6467 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2418575 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 254552 | 0 |
| V | 51 | -0.034 | ug/L | 0.020 | 56 | 2402 | 1937 | 10 |
| V-1 | 51 | 0.049 | ug/L | 0.024 | 48 | 8286 | 8595 | 2 |
| Cr | 52 | -0.041 | ug/L | 0.011 | 26 | 7360 | 6728 | 2 |
| Cr | 53 | 0.223 | ug/L | 0.071 | 31 | 2713 | 2889 | 2 |
| Mn | 55 | -0.026 | ug/L | 0.002 | 7 | 1178 | 704 | 4 |
| Co | 59 | 0.002 | ug/L | 0.001 | 56 | 123 | 145 | 9 |
| > Ge | 72 | | ug/L | | | 333920 | 330152 | 0 |
| Ni | 60 | -0.012 | ug/L | 0.008 | 71 | 109 | 77 | 27 |
| Ni | 62 | 0.011 | ug/L | 0.019 | 171 | 54 | 57 | 12 |
| Cu | 63 | 0.239 | ug/L | 0.011 | 4 | 248 | 1671 | 4 |
| Cu | 65 | 0.232 | ug/L | 0.013 | 5 | 118 | 778 | 4 |
| Zn | 66 | 8.523 | ug/L | 0.196 | 2 | 695 | 16079 | 2 |
| Zn | 67 | 7.624 | ug/L | 0.293 | 3 | 255 | 2546 | 2 |
| Zn | 68 | 8.196 | ug/L | 0.133 | 1 | 8462 | 18777 | 0 |
| As | 75 | 0.076 | ug/L | 0.005 | 6 | 693 | 823 | 1 |
| As-1 | 75 | -0.289 | ug/L | 0.069 | 23 | 11505 | 10854 | 0 |
| Se | 82 | 0.011 | ug/L | 0.049 | 434 | -5 | -3 | 321 |
| Se | 78 | -1.173 | ug/L | 0.224 | 19 | 11713 | 11004 | 0 |
| Mo | 98 | 0.022 | ug/L | 0.007 | 31 | 207 | 355 | 12 |
| Y | 89 | | ug/L | | | 309412 | 297183 | 1 |
| Kr | 83 | | ug/L | | | 376 | 401 | 1 |
| > In | 115 | | ug/L | | | 365357 | 343225 | 0 |
| Ag | 107 | 0.006 | ug/L | 0.001 | 22 | 101 | 158 | 8 |
| Cd | 111 | 0.000 | ug/L | 0.006 | 2318 | 166 | 157 | 10 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 38 | 27 | 39 | 13 |
| Sb | 121 | 0.051 | ug/L | 0.008 | 15 | 240 | 709 | 11 |
| Sb | 123 | 0.052 | ug/L | 0.006 | 12 | 169 | 531 | 9 |
| Ba | 135 | 0.012 | ug/L | 0.005 | 38 | 32 | 59 | 19 |
| Ba | 137 | 0.011 | ug/L | 0.005 | 42 | 65 | 106 | 17 |
| > Tb | 159 | | ug/L | | | 430587 | 413966 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.001 | 25 | 147 | 272 | 13 |
| Pb | 208 | 0.024 | ug/L | 0.001 | 3 | 1493 | 2350 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 328499 | 0 |
| Th | 232 | 0.035 | ug/L | 0.003 | 7 | 719 | 2227 | 6 |
| U | 238 | 0.002 | ug/L | 0.000 | 15 | 97 | 178 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:13:25

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 459129 | 1 |
| [Be | 9 | 0.002 | ug/L | 0.005 | 200 | 3 | 4 | 45 |
| C | 13 | | mg/L | | | 5654 | 6941 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2411683 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 255955 | 0 |
| V | 51 | -0.038 | ug/L | 0.019 | 49 | 2402 | 1909 | 11 |
| V-1 | 51 | 0.026 | ug/L | 0.011 | 43 | 8286 | 8376 | 2 |
| Cr | 52 | 0.021 | ug/L | 0.005 | 25 | 7360 | 7378 | 1 |
| Cr | 53 | 0.220 | ug/L | 0.087 | 39 | 2713 | 2901 | 3 |
| Mn | 55 | -0.013 | ug/L | 0.002 | 15 | 1178 | 936 | 3 |
| Co | 59 | -0.001 | ug/L | 0.001 | 194 | 123 | 112 | 13 |
| > Ge | 72 | | ug/L | | | 333920 | 333578 | 0 |
| Ni | 60 | 0.012 | ug/L | 0.004 | 29 | 109 | 141 | 6 |
| Ni | 62 | 0.008 | ug/L | 0.013 | 156 | 54 | 57 | 9 |
| Cu | 63 | 0.217 | ug/L | 0.013 | 5 | 248 | 1555 | 5 |
| Cu | 65 | 0.220 | ug/L | 0.012 | 5 | 118 | 753 | 4 |
| Zn | 66 | 0.117 | ug/L | 0.014 | 11 | 695 | 908 | 2 |
| Zn | 67 | 0.128 | ug/L | 0.043 | 33 | 255 | 294 | 4 |
| Zn | 68 | -0.005 | ug/L | 0.072 | 1377 | 8462 | 8447 | 1 |
| As | 75 | 0.052 | ug/L | 0.019 | 36 | 693 | 787 | 4 |
| As-1 | 75 | -0.229 | ug/L | 0.049 | 21 | 11505 | 11077 | 0 |
| Se | 82 | -0.045 | ug/L | 0.094 | 209 | -5 | -14 | 131 |
| Se | 78 | -0.951 | ug/L | 0.161 | 16 | 11713 | 11228 | 0 |
| Mo | 98 | 0.000 | ug/L | 0.004 | 948 | 207 | 210 | 13 |
| Y | 89 | | ug/L | | | 309412 | 302413 | 0 |
| Kr | 83 | | ug/L | | | 376 | 399 | 2 |
| > In | 115 | | ug/L | | | 365357 | 344638 | 0 |
| Ag | 107 | 0.003 | ug/L | 0.001 | 19 | 101 | 131 | 5 |
| Cd | 111 | 0.005 | ug/L | 0.003 | 69 | 166 | 170 | 4 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 31 | 27 | 38 | 10 |
| Sb | 121 | 0.027 | ug/L | 0.004 | 15 | 240 | 487 | 7 |
| Sb | 123 | 0.033 | ug/L | 0.002 | 6 | 169 | 399 | 3 |
| Ba | 135 | 0.028 | ug/L | 0.003 | 10 | 32 | 97 | 7 |
| [Ba | 137 | 0.027 | ug/L | 0.004 | 14 | 65 | 173 | 9 |
| > Tb | 159 | | ug/L | | | 430587 | 411722 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.000 | 16 | 147 | 211 | 6 |
| Pb | 208 | 0.040 | ug/L | 0.001 | 2 | 1493 | 2943 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 325676 | 0 |
| Th | 232 | 0.032 | ug/L | 0.001 | 2 | 719 | 2092 | 2 |
| U | 238 | 0.001 | ug/L | 0.000 | 52 | 97 | 133 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:19:12

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 452707 | 1 |
| [Be | 9 | 0.002 | ug/L | 0.006 | 257 | 3 | 4 | 62 |
| C | 13 | | mg/L | | | 5654 | 6667 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2403724 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 251971 | 1 |
| V | 51 | -0.036 | ug/L | 0.013 | 35 | 2402 | 1905 | 8 |
| V-1 | 51 | 0.023 | ug/L | 0.019 | 83 | 8286 | 8211 | 1 |
| Cr | 52 | -0.011 | ug/L | 0.018 | 173 | 7360 | 6958 | 1 |
| Cr | 53 | 0.174 | ug/L | 0.106 | 60 | 2713 | 2802 | 3 |
| Mn | 55 | -0.035 | ug/L | 0.001 | 2 | 1178 | 548 | 1 |
| Co | 59 | -0.003 | ug/L | 0.000 | 11 | 123 | 76 | 5 |
| [> Ge | 72 | | ug/L | | | 333920 | 328032 | 1 |
| Ni | 60 | -0.008 | ug/L | 0.002 | 28 | 109 | 87 | 7 |
| Ni | 62 | -0.009 | ug/L | 0.023 | 246 | 54 | 49 | 19 |
| Cu | 63 | 0.137 | ug/L | 0.003 | 2 | 248 | 1058 | 3 |
| Cu | 65 | 0.139 | ug/L | 0.010 | 7 | 118 | 510 | 5 |
| Zn | 66 | 0.122 | ug/L | 0.013 | 10 | 695 | 902 | 1 |
| Zn | 67 | 0.038 | ug/L | 0.074 | 195 | 255 | 262 | 7 |
| Zn | 68 | 0.003 | ug/L | 0.052 | 1842 | 8462 | 8316 | 1 |
| As | 75 | 0.056 | ug/L | 0.008 | 13 | 693 | 782 | 0 |
| As-1 | 75 | -0.196 | ug/L | 0.099 | 50 | 11505 | 10950 | 0 |
| Se | 82 | 0.002 | ug/L | 0.123 | 7046 | -5 | -5 | 483 |
| Se | 78 | -0.819 | ug/L | 0.370 | 45 | 11713 | 11105 | 0 |
| Mo | 98 | -0.011 | ug/L | 0.001 | 8 | 207 | 128 | 6 |
| Y | 89 | | ug/L | | | 309412 | 292265 | 0 |
| Kr | 83 | | ug/L | | | 376 | 389 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 340051 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 57 | 101 | 106 | 6 |
| Cd | 111 | 0.003 | ug/L | 0.006 | 169 | 166 | 164 | 10 |
| Cd | 114 | 0.001 | ug/L | 0.001 | 196 | 27 | 28 | 23 |
| Sb | 121 | 0.017 | ug/L | 0.003 | 19 | 240 | 385 | 7 |
| Sb | 123 | 0.019 | ug/L | 0.002 | 12 | 169 | 292 | 5 |
| Ba | 135 | 0.009 | ug/L | 0.004 | 38 | 32 | 52 | 15 |
| [Ba | 137 | 0.005 | ug/L | 0.002 | 34 | 65 | 81 | 9 |
| [> Tb | 159 | | ug/L | | | 430587 | 401103 | 1 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 40 | 147 | 157 | 4 |
| Pb | 208 | 0.035 | ug/L | 0.001 | 3 | 1493 | 2686 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 320021 | 0 |
| Th | 232 | 0.013 | ug/L | 0.001 | 6 | 719 | 1220 | 3 |
| [U | 238 | 0.001 | ug/L | 0.000 | 15 | 97 | 119 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:25:00

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 424049 | 1 |
| [Be | 9 | -0.002 | ug/L | 0.002 | 84 | 3 | 2 | 34 |
| C | 13 | | mg/L | | | 5654 | 6782 | 3 |
| Cl | 37 | | mg/L | | | 2331174 | 2402411 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 237404 | 1 |
| V | 51 | -0.007 | ug/L | 0.008 | 123 | 2402 | 2101 | 5 |
| V-1 | 51 | 0.065 | ug/L | 0.008 | 12 | 8286 | 8184 | 0 |
| Cr | 52 | 0.047 | ug/L | 0.004 | 7 | 7360 | 7083 | 1 |
| Cr | 53 | 0.270 | ug/L | 0.045 | 16 | 2713 | 2745 | 0 |
| Mn | 55 | -0.027 | ug/L | 0.002 | 8 | 1178 | 655 | 4 |
| [Co | 59 | 0.003 | ug/L | 0.001 | 42 | 123 | 152 | 12 |
| [> Ge | 72 | | ug/L | | | 333920 | 308058 | 0 |
| Ni | 60 | -0.003 | ug/L | 0.004 | 116 | 109 | 92 | 10 |
| Ni | 62 | 0.011 | ug/L | 0.027 | 237 | 54 | 54 | 18 |
| Cu | 63 | 0.145 | ug/L | 0.007 | 4 | 248 | 1038 | 3 |
| Cu | 65 | 0.147 | ug/L | 0.003 | 1 | 118 | 500 | 1 |
| Zn | 66 | 0.163 | ug/L | 0.002 | 1 | 695 | 916 | 0 |
| Zn | 67 | 0.163 | ug/L | 0.044 | 27 | 255 | 281 | 4 |
| Zn | 68 | 0.490 | ug/L | 0.155 | 31 | 8462 | 8387 | 1 |
| As | 75 | 0.092 | ug/L | 0.013 | 13 | 693 | 796 | 2 |
| As-1 | 75 | 0.254 | ug/L | 0.035 | 13 | 11505 | 11040 | 0 |
| Se | 82 | -0.091 | ug/L | 0.118 | 129 | -5 | -22 | 100 |
| Se | 78 | 0.820 | ug/L | 0.160 | 19 | 11713 | 11182 | 0 |
| [Mo | 98 | -0.011 | ug/L | 0.004 | 30 | 207 | 119 | 18 |
| Y | 89 | | ug/L | | | 309412 | 276271 | 0 |
| Kr | 83 | | ug/L | | | 376 | 406 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 320018 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.000 | 44 | 101 | 99 | 4 |
| Cd | 111 | 0.001 | ug/L | 0.010 | 1296 | 166 | 148 | 17 |
| Cd | 114 | 0.002 | ug/L | 0.000 | 21 | 27 | 35 | 7 |
| Sb | 121 | 0.014 | ug/L | 0.001 | 8 | 240 | 332 | 3 |
| Sb | 123 | 0.015 | ug/L | 0.005 | 32 | 169 | 250 | 13 |
| Ba | 135 | 0.051 | ug/L | 0.006 | 10 | 32 | 141 | 8 |
| [Ba | 137 | 0.048 | ug/L | 0.008 | 17 | 65 | 240 | 13 |
| [> Tb | 159 | | ug/L | | | 430587 | 382461 | 0 |
| Tl | 205 | 0.000 | ug/L | 0.001 | 232 | 147 | 143 | 19 |
| Pb | 208 | 0.053 | ug/L | 0.002 | 3 | 1493 | 3224 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 305114 | 1 |
| Th | 232 | 0.016 | ug/L | 0.002 | 11 | 719 | 1296 | 6 |
| [U | 238 | 0.001 | ug/L | 0.000 | 27 | 97 | 111 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:30:49

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 451717 | 1 |
| [Be | 9 | 26.701 | ug/L | 0.351 | 1 | 3 | 11178 | 0 |
| C | 13 | | mg/L | | | 5654 | 7439 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2401907 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 254117 | 1 |
| V | 51 | 25.862 | ug/L | 0.108 | 0 | 2402 | 294795 | 1 |
| V-1 | 51 | 25.942 | ug/L | 0.128 | 0 | 8286 | 305380 | 0 |
| Cr | 52 | 26.091 | ug/L | 0.359 | 1 | 7360 | 263164 | 1 |
| Cr | 53 | 26.334 | ug/L | 0.563 | 2 | 2713 | 33122 | 1 |
| Mn | 55 | 25.830 | ug/L | 0.125 | 0 | 1178 | 429023 | 0 |
| Co | 59 | 26.415 | ug/L | 0.424 | 1 | 123 | 332738 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 327073 | 1 |
| Ni | 60 | 27.061 | ug/L | 0.556 | 2 | 109 | 71528 | 1 |
| Ni | 62 | 27.399 | ug/L | 0.105 | 0 | 54 | 10871 | 0 |
| Cu | 63 | 28.408 | ug/L | 0.314 | 1 | 248 | 168051 | 1 |
| Cu | 65 | 28.534 | ug/L | 0.529 | 1 | 118 | 80799 | 0 |
| Zn | 66 | 83.151 | ug/L | 0.521 | 0 | 695 | 149421 | 0 |
| Zn | 67 | 76.869 | ug/L | 1.745 | 2 | 255 | 23164 | 1 |
| Zn | 68 | 82.550 | ug/L | 0.540 | 0 | 8462 | 112164 | 0 |
| As | 75 | 27.579 | ug/L | 0.789 | 2 | 693 | 50597 | 1 |
| As-1 | 75 | 26.646 | ug/L | 0.388 | 1 | 11505 | 58819 | 0 |
| Se | 82 | 78.295 | ug/L | 1.980 | 2 | -5 | 15798 | 1 |
| Se | 78 | 77.741 | ug/L | 0.815 | 1 | 11713 | 49341 | 1 |
| Mo | 98 | -0.005 | ug/L | 0.002 | 51 | 207 | 173 | 8 |
| Y | 89 | | ug/L | | | 309412 | 293808 | 1 |
| Kr | 83 | | ug/L | | | 376 | 403 | 3 |
| > In | 115 | | ug/L | | | 365357 | 340906 | 1 |
| Ag | 107 | 26.942 | ug/L | 0.364 | 1 | 101 | 303808 | 1 |
| Cd | 111 | 25.958 | ug/L | 0.198 | 0 | 166 | 72096 | 1 |
| Cd | 114 | 25.827 | ug/L | 0.227 | 0 | 27 | 168452 | 1 |
| Sb | 121 | 0.012 | ug/L | 0.001 | 12 | 240 | 334 | 3 |
| Sb | 123 | 0.008 | ug/L | 0.002 | 23 | 169 | 218 | 6 |
| Ba | 135 | 26.425 | ug/L | 0.249 | 0 | 32 | 62498 | 0 |
| [Ba | 137 | 26.346 | ug/L | 0.424 | 1 | 65 | 107636 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 406605 | 1 |
| Tl | 205 | 27.510 | ug/L | 0.324 | 1 | 147 | 757193 | 0 |
| Pb | 208 | 27.529 | ug/L | 0.334 | 1 | 1493 | 1040430 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 322698 | 0 |
| Th | 232 | 27.505 | ug/L | 0.738 | 2 | 719 | 1186696 | 1 |
| U | 238 | 27.314 | ug/L | 0.410 | 1 | 97 | 1258897 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:37:07

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 435587 | 0 |
| [Be | 9 | 27.313 | ug/L | 0.310 | 1 | 3 | 11028 | 1 |
| C | 13 | | mg/L | | | 5654 | 7013 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2435906 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 242881 | 1 |
| V | 51 | 26.216 | ug/L | 0.274 | 1 | 2402 | 285550 | 0 |
| V-1 | 51 | 26.430 | ug/L | 0.243 | 0 | 8286 | 297206 | 0 |
| Cr | 52 | 26.729 | ug/L | 0.743 | 2 | 7360 | 257446 | 1 |
| Cr | 53 | 27.386 | ug/L | 0.631 | 2 | 2713 | 32818 | 0 |
| Mn | 55 | 26.572 | ug/L | 0.484 | 1 | 1178 | 421757 | 0 |
| Co | 59 | 27.083 | ug/L | 0.435 | 1 | 123 | 326046 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 314248 | 0 |
| Ni | 60 | 27.334 | ug/L | 0.533 | 1 | 109 | 69423 | 1 |
| Ni | 62 | 27.587 | ug/L | 0.813 | 2 | 54 | 10515 | 2 |
| Cu | 63 | 28.641 | ug/L | 0.322 | 1 | 248 | 162783 | 0 |
| Cu | 65 | 28.703 | ug/L | 0.121 | 0 | 118 | 78101 | 1 |
| Zn | 66 | 85.804 | ug/L | 0.247 | 0 | 695 | 148125 | 0 |
| Zn | 67 | 80.122 | ug/L | 0.239 | 0 | 255 | 23190 | 0 |
| Zn | 68 | 85.821 | ug/L | 0.362 | 0 | 8462 | 111725 | 0 |
| As | 75 | 28.481 | ug/L | 0.043 | 0 | 693 | 50191 | 0 |
| As-1 | 75 | 27.692 | ug/L | 0.159 | 0 | 11505 | 58310 | 0 |
| Se | 82 | 81.050 | ug/L | 1.013 | 1 | -5 | 15715 | 0 |
| Se | 78 | 81.118 | ug/L | 1.389 | 1 | 11713 | 48984 | 0 |
| Mo | 98 | -0.011 | ug/L | 0.001 | 9 | 207 | 126 | 5 |
| Y | 89 | | ug/L | | | 309412 | 282155 | 0 |
| Kr | 83 | | ug/L | | | 376 | 387 | 5 |
| > In | 115 | | ug/L | | | 365357 | 323980 | 0 |
| Ag | 107 | 28.002 | ug/L | 0.435 | 1 | 101 | 300098 | 1 |
| Cd | 111 | 27.141 | ug/L | 0.391 | 1 | 166 | 71631 | 1 |
| Cd | 114 | 26.789 | ug/L | 0.324 | 1 | 27 | 166056 | 1 |
| Sb | 121 | 0.006 | ug/L | 0.001 | 10 | 240 | 266 | 2 |
| Sb | 123 | 0.006 | ug/L | 0.002 | 39 | 169 | 192 | 8 |
| Ba | 135 | 27.117 | ug/L | 0.297 | 1 | 32 | 60956 | 1 |
| Ba | 137 | 27.295 | ug/L | 0.290 | 1 | 65 | 105989 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 389533 | 2 |
| Tl | 205 | 28.019 | ug/L | 0.979 | 3 | 147 | 738586 | 1 |
| Pb | 208 | 28.213 | ug/L | 0.565 | 2 | 1493 | 1021340 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 315383 | 0 |
| Th | 232 | 27.900 | ug/L | 0.478 | 1 | 719 | 1153275 | 0 |
| U | 238 | 27.900 | ug/L | 0.806 | 2 | 97 | 1231609 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:43:25

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 421197 | 0 |
| [Be | 9 | 28.588 | ug/L | 0.187 | 0 | 3 | 11161 | 0 |
| C | 13 | | mg/L | | | 5654 | 7162 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2470099 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 236244 | 1 |
| V | 51 | 27.050 | ug/L | 0.102 | 0 | 2402 | 286548 | 1 |
| V-1 | 51 | 27.217 | ug/L | 0.166 | 0 | 8286 | 297491 | 1 |
| Cr | 52 | 27.761 | ug/L | 0.077 | 0 | 7360 | 259896 | 1 |
| Cr | 53 | 28.261 | ug/L | 0.453 | 1 | 2713 | 32867 | 1 |
| Mn | 55 | 27.364 | ug/L | 0.273 | 0 | 1178 | 422480 | 1 |
| Co | 59 | 28.161 | ug/L | 0.285 | 1 | 123 | 329787 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 305895 | 0 |
| Ni | 60 | 28.286 | ug/L | 0.450 | 1 | 109 | 69930 | 1 |
| Ni | 62 | 28.382 | ug/L | 0.535 | 1 | 54 | 10530 | 1 |
| Cu | 63 | 30.168 | ug/L | 0.489 | 1 | 248 | 166896 | 1 |
| Cu | 65 | 30.147 | ug/L | 0.549 | 1 | 118 | 79841 | 1 |
| Zn | 66 | 87.696 | ug/L | 0.848 | 0 | 695 | 147352 | 0 |
| Zn | 67 | 81.081 | ug/L | 1.405 | 1 | 255 | 22841 | 1 |
| Zn | 68 | 86.667 | ug/L | 0.739 | 0 | 8462 | 109750 | 0 |
| As | 75 | 28.878 | ug/L | 0.084 | 0 | 693 | 49528 | 0 |
| As-1 | 75 | 28.383 | ug/L | 0.153 | 0 | 11505 | 57914 | 0 |
| Se | 82 | 81.719 | ug/L | 0.812 | 0 | -5 | 15424 | 0 |
| Se | 78 | 82.946 | ug/L | 0.442 | 0 | 11713 | 48518 | 0 |
| Mo | 98 | -0.011 | ug/L | 0.001 | 10 | 207 | 120 | 5 |
| Y | 89 | | ug/L | | | 309412 | 273738 | 0 |
| Kr | 83 | | ug/L | | | 376 | 389 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 316975 | 1 |
| Ag | 107 | 28.693 | ug/L | 0.421 | 1 | 101 | 300836 | 1 |
| Cd | 111 | 27.916 | ug/L | 0.382 | 1 | 166 | 72082 | 2 |
| Cd | 114 | 27.410 | ug/L | 0.344 | 1 | 27 | 166218 | 1 |
| Sb | 121 | 0.005 | ug/L | 0.001 | 16 | 240 | 250 | 1 |
| Sb | 123 | 0.005 | ug/L | 0.001 | 13 | 169 | 181 | 4 |
| Ba | 135 | 28.069 | ug/L | 0.565 | 2 | 32 | 61717 | 1 |
| [Ba | 137 | 28.194 | ug/L | 0.700 | 2 | 65 | 107097 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 381587 | 0 |
| Tl | 205 | 29.108 | ug/L | 0.365 | 1 | 147 | 752020 | 1 |
| Pb | 208 | 29.155 | ug/L | 0.101 | 0 | 1493 | 1034147 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 305371 | 0 |
| Th | 232 | 28.977 | ug/L | 0.232 | 0 | 719 | 1173575 | 0 |
| [U | 238 | 29.106 | ug/L | 0.254 | 0 | 97 | 1259093 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:49:43

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 435422 | 1 |
| [Be | 9 | 27.593 | ug/L | 0.475 | 1 | 3 | 11135 | 0 |
| C | 13 | | mg/L | | | 5654 | 7482 | 3 |
| Cl | 37 | | mg/L | | | 2331174 | 2468691 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 240811 | 0 |
| V | 51 | 26.640 | ug/L | 0.318 | 1 | 2402 | 287691 | 1 |
| V-1 | 51 | 26.801 | ug/L | 0.182 | 0 | 8286 | 298722 | 0 |
| Cr | 52 | 27.056 | ug/L | 0.371 | 1 | 7360 | 258369 | 1 |
| Cr | 53 | 27.548 | ug/L | 0.172 | 0 | 2713 | 32723 | 0 |
| Mn | 55 | 26.876 | ug/L | 0.335 | 1 | 1178 | 422989 | 1 |
| [Co | 59 | 27.464 | ug/L | 0.477 | 1 | 123 | 327859 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 316652 | 0 |
| Ni | 60 | 27.504 | ug/L | 0.440 | 1 | 109 | 70386 | 0 |
| Ni | 62 | 27.453 | ug/L | 0.352 | 1 | 54 | 10545 | 1 |
| Cu | 63 | 28.689 | ug/L | 0.372 | 1 | 248 | 164307 | 0 |
| Cu | 65 | 28.832 | ug/L | 0.447 | 1 | 118 | 79044 | 0 |
| Zn | 66 | 85.968 | ug/L | 0.219 | 0 | 695 | 149541 | 0 |
| Zn | 67 | 79.389 | ug/L | 0.418 | 0 | 255 | 23156 | 0 |
| Zn | 68 | 85.877 | ug/L | 0.642 | 0 | 8462 | 112644 | 0 |
| As | 75 | 28.530 | ug/L | 0.253 | 0 | 693 | 50659 | 0 |
| As-1 | 75 | 27.314 | ug/L | 0.440 | 1 | 11505 | 58099 | 0 |
| Se | 82 | 82.038 | ug/L | 1.709 | 2 | -5 | 16028 | 1 |
| Se | 78 | 80.594 | ug/L | 2.354 | 2 | 11713 | 49109 | 1 |
| [Mo | 98 | -0.013 | ug/L | 0.002 | 17 | 207 | 114 | 13 |
| Y | 89 | | ug/L | | | 309412 | 283854 | 0 |
| Kr | 83 | | ug/L | | | 376 | 390 | 5 |
| [> In | 115 | | ug/L | | | 365357 | 325207 | 0 |
| Ag | 107 | 27.840 | ug/L | 0.462 | 1 | 101 | 299468 | 0 |
| Cd | 111 | 27.381 | ug/L | 0.370 | 1 | 166 | 72533 | 0 |
| Cd | 114 | 27.388 | ug/L | 0.185 | 0 | 27 | 170409 | 0 |
| Sb | 121 | -0.000 | ug/L | 0.002 | 2472 | 240 | 213 | 7 |
| Sb | 123 | 0.002 | ug/L | 0.002 | 94 | 169 | 166 | 8 |
| Ba | 135 | 27.543 | ug/L | 0.477 | 1 | 32 | 62141 | 1 |
| Ba | 137 | 27.438 | ug/L | 0.438 | 1 | 65 | 106943 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 392786 | 1 |
| Tl | 205 | 28.486 | ug/L | 0.483 | 1 | 147 | 757501 | 2 |
| Pb | 208 | 28.384 | ug/L | 0.329 | 1 | 1493 | 1036306 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 317516 | 2 |
| Th | 232 | 28.380 | ug/L | 0.363 | 1 | 719 | 1183047 | 0 |
| [U | 238 | 27.940 | ug/L | 0.353 | 1 | 97 | 1244037 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 18:56:01

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 441755 | 0 |
| [Be | 9 | 0.012 | ug/L | 0.006 | 54 | 3 | 7 | 32 |
| C | 13 | | mg/L | | | 5654 | 7763 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2493140 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 251444 | 0 |
| V | 51 | 0.809 | ug/L | 0.021 | 2 | 2402 | 11357 | 2 |
| V-1 | 51 | 0.809 | ug/L | 0.012 | 1 | 8286 | 17106 | 0 |
| Cr | 52 | 0.991 | ug/L | 0.030 | 3 | 7360 | 16673 | 1 |
| Cr | 53 | 0.981 | ug/L | 0.074 | 7 | 2713 | 3722 | 2 |
| Mn | 55 | 12.755 | ug/L | 0.184 | 1 | 1178 | 210199 | 1 |
| Co | 59 | 0.118 | ug/L | 0.001 | 0 | 123 | 1588 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 326973 | 0 |
| Ni | 60 | 0.806 | ug/L | 0.013 | 1 | 109 | 2234 | 1 |
| Ni | 62 | 0.796 | ug/L | 0.083 | 10 | 54 | 367 | 8 |
| Cu | 63 | 4.656 | ug/L | 0.059 | 1 | 248 | 27738 | 0 |
| Cu | 65 | 4.683 | ug/L | 0.041 | 0 | 118 | 13355 | 0 |
| Zn | 66 | 341.260 | ug/L | 0.938 | 0 | 695 | 610950 | 0 |
| Zn | 67 | 303.816 | ug/L | 0.631 | 0 | 255 | 90800 | 0 |
| Zn | 68 | 336.640 | ug/L | 1.162 | 0 | 8462 | 431777 | 0 |
| As | 75 | 1.974 | ug/L | 0.023 | 1 | 693 | 4250 | 1 |
| As-1 | 75 | 1.641 | ug/L | 0.101 | 6 | 11505 | 14194 | 0 |
| Se | 82 | 0.170 | ug/L | 0.137 | 80 | -5 | 29 | 95 |
| Se | 78 | -1.071 | ug/L | 0.331 | 30 | 11713 | 10947 | 1 |
| Mo | 98 | 0.416 | ug/L | 0.006 | 1 | 207 | 2979 | 1 |
| Y | 89 | | ug/L | | | 309412 | 292124 | 1 |
| Kr | 83 | | ug/L | | | 376 | 381 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 339212 | 1 |
| Ag | 107 | 0.023 | ug/L | 0.005 | 20 | 101 | 356 | 15 |
| Cd | 111 | 1.102 | ug/L | 0.029 | 2 | 166 | 3195 | 3 |
| Cd | 114 | 1.077 | ug/L | 0.025 | 2 | 27 | 7016 | 1 |
| Sb | 121 | 33.083 | ug/L | 0.424 | 1 | 240 | 310655 | 0 |
| Sb | 123 | 32.700 | ug/L | 0.233 | 0 | 169 | 230560 | 0 |
| Ba | 135 | 6.828 | ug/L | 0.100 | 1 | 32 | 16090 | 0 |
| Ba | 137 | 6.840 | ug/L | 0.098 | 1 | 65 | 27853 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 404466 | 0 |
| Tl | 205 | 0.038 | ug/L | 0.005 | 13 | 147 | 1171 | 12 |
| Pb | 208 | 1.604 | ug/L | 0.016 | 1 | 1493 | 61615 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 322383 | 1 |
| Th | 232 | 0.083 | ug/L | 0.015 | 18 | 719 | 4249 | 16 |
| U | 238 | 0.023 | ug/L | 0.002 | 9 | 97 | 1151 | 8 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:02:19

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 448647 | 0 |
| [Be | 9 | 52.102 | ug/L | 0.402 | 0 | 3 | 21665 | 1 |
| C | 13 | | mg/L | | | 5654 | 5517 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2482968 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 249627 | 2 |
| V | 51 | 48.870 | ug/L | 0.538 | 1 | 2402 | 545143 | 1 |
| V-1 | 51 | 48.920 | ug/L | 0.694 | 1 | 8286 | 558656 | 1 |
| Cr | 52 | 49.056 | ug/L | 0.733 | 1 | 7360 | 479806 | 0 |
| Cr | 53 | 49.207 | ug/L | 1.576 | 3 | 2713 | 58539 | 1 |
| Mn | 55 | 48.007 | ug/L | 1.604 | 3 | 1178 | 782002 | 1 |
| Co | 59 | 48.716 | ug/L | 1.383 | 2 | 123 | 602529 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 326589 | 0 |
| Ni | 60 | 48.921 | ug/L | 0.217 | 0 | 109 | 129051 | 0 |
| Ni | 62 | 48.948 | ug/L | 0.733 | 1 | 54 | 19351 | 1 |
| Cu | 63 | 49.678 | ug/L | 0.486 | 0 | 248 | 293268 | 0 |
| Cu | 65 | 49.680 | ug/L | 0.340 | 0 | 118 | 140398 | 0 |
| Zn | 66 | 50.257 | ug/L | 1.056 | 2 | 695 | 90452 | 2 |
| Zn | 67 | 50.414 | ug/L | 0.553 | 1 | 255 | 15257 | 0 |
| Zn | 68 | 50.157 | ug/L | 0.233 | 0 | 8462 | 71300 | 0 |
| As | 75 | 50.375 | ug/L | 0.311 | 0 | 693 | 91738 | 0 |
| As-1 | 75 | 49.973 | ug/L | 0.109 | 0 | 11505 | 100304 | 0 |
| Se | 82 | 48.586 | ug/L | 0.763 | 1 | -5 | 9789 | 1 |
| Se | 78 | 47.145 | ug/L | 0.390 | 0 | 11713 | 34387 | 0 |
| Mo | 98 | 48.492 | ug/L | 0.189 | 0 | 207 | 323180 | 0 |
| Y | 89 | | ug/L | | | 309412 | 293197 | 0 |
| Kr | 83 | | ug/L | | | 376 | 390 | 2 |
| > In | 115 | | ug/L | | | 365357 | 338918 | 0 |
| Ag | 107 | 49.791 | ug/L | 0.263 | 0 | 101 | 558130 | 0 |
| Cd | 111 | 50.007 | ug/L | 0.490 | 0 | 166 | 137932 | 0 |
| Cd | 114 | 49.438 | ug/L | 0.109 | 0 | 27 | 320568 | 0 |
| Sb | 121 | 50.557 | ug/L | 0.268 | 0 | 240 | 474253 | 0 |
| Sb | 123 | 50.018 | ug/L | 0.141 | 0 | 169 | 352295 | 0 |
| Ba | 135 | 49.426 | ug/L | 0.616 | 1 | 32 | 116201 | 1 |
| Ba | 137 | 49.349 | ug/L | 0.627 | 1 | 65 | 200422 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 403368 | 0 |
| Tl | 205 | 51.340 | ug/L | 0.507 | 0 | 147 | 1401850 | 0 |
| Pb | 208 | 51.448 | ug/L | 0.082 | 0 | 1493 | 1927998 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 322472 | 0 |
| Th | 232 | 51.896 | ug/L | 0.586 | 1 | 719 | 2221134 | 0 |
| U | 238 | 51.465 | ug/L | 0.709 | 1 | 97 | 2353157 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:08:57

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 445559 | 0 |
| [Be | 9 | 0.002 | ug/L | 0.003 | 195 | 3 | 3 | 33 |
| C | 13 | | mg/L | | | 5654 | 5784 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2511664 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 249460 | 1 |
| V | 51 | -0.023 | ug/L | 0.022 | 93 | 2402 | 2027 | 11 |
| V-1 | 51 | -0.059 | ug/L | 0.010 | 16 | 8286 | 7209 | 1 |
| Cr | 52 | -0.026 | ug/L | 0.017 | 64 | 7360 | 6736 | 1 |
| Cr | 53 | -0.140 | ug/L | 0.101 | 72 | 2713 | 2418 | 4 |
| Mn | 55 | -0.024 | ug/L | 0.002 | 7 | 1178 | 724 | 4 |
| [Co | 59 | 0.024 | ug/L | 0.004 | 15 | 123 | 411 | 11 |
| > Ge | 72 | | ug/L | | | 333920 | 324289 | 0 |
| Ni | 60 | 0.003 | ug/L | 0.005 | 132 | 109 | 115 | 10 |
| Ni | 62 | 0.030 | ug/L | 0.014 | 46 | 54 | 64 | 7 |
| Cu | 63 | 0.012 | ug/L | 0.005 | 39 | 248 | 311 | 9 |
| Cu | 65 | 0.011 | ug/L | 0.003 | 32 | 118 | 145 | 6 |
| Zn | 66 | 0.214 | ug/L | 0.018 | 8 | 695 | 1055 | 3 |
| Zn | 67 | 0.059 | ug/L | 0.036 | 61 | 255 | 265 | 3 |
| Zn | 68 | -0.132 | ug/L | 0.021 | 16 | 8462 | 8053 | 0 |
| As | 75 | 0.069 | ug/L | 0.033 | 48 | 693 | 796 | 7 |
| As-1 | 75 | -0.263 | ug/L | 0.108 | 41 | 11505 | 10707 | 1 |
| Se | 82 | -0.022 | ug/L | 0.081 | 359 | -5 | -9 | 163 |
| Se | 78 | -1.099 | ug/L | 0.392 | 35 | 11713 | 10844 | 0 |
| [Mo | 98 | -0.009 | ug/L | 0.005 | 56 | 207 | 145 | 22 |
| Y | 89 | | ug/L | | | 309412 | 291440 | 0 |
| Kr | 83 | | ug/L | | | 376 | 391 | 1 |
| > In | 115 | | ug/L | | | 365357 | 336672 | 1 |
| Ag | 107 | 0.014 | ug/L | 0.007 | 49 | 101 | 249 | 29 |
| Cd | 111 | 0.010 | ug/L | 0.006 | 63 | 166 | 180 | 8 |
| Cd | 114 | 0.007 | ug/L | 0.002 | 24 | 27 | 72 | 15 |
| Sb | 121 | 0.046 | ug/L | 0.022 | 48 | 240 | 644 | 31 |
| Sb | 123 | 0.045 | ug/L | 0.019 | 43 | 169 | 469 | 27 |
| Ba | 135 | 0.015 | ug/L | 0.007 | 48 | 32 | 65 | 25 |
| [Ba | 137 | 0.010 | ug/L | 0.006 | 59 | 65 | 102 | 23 |
| > Tb | 159 | | ug/L | | | 430587 | 405331 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.005 | 45 | 147 | 466 | 31 |
| Pb | 208 | 0.123 | ug/L | 0.007 | 5 | 1493 | 6037 | 4 |
| Bi | 209 | | ug/L | | | 345109 | 323902 | 0 |
| Th | 232 | 0.033 | ug/L | 0.008 | 24 | 719 | 2105 | 16 |
| [U | 238 | 0.006 | ug/L | 0.003 | 46 | 97 | 375 | 35 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:14:45

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [>] Li | 6 | | ug/L | | | 477870 | 453853 | 1 |
| [] Be | 9 | -0.001 | ug/L | 0.003 | 591 | 3 | 2 | 49 |
| [] C | 13 | | mg/L | | | 5654 | 6900 | 1 |
| [] Cl | 37 | | mg/L | | | 2331174 | 2487889 | 0 |
| [>] Sc | 45 | | ug/L | | | 262568 | 254355 | 1 |
| [] V | 51 | -0.025 | ug/L | 0.007 | 28 | 2402 | 2041 | 4 |
| [] V-1 | 51 | -0.104 | ug/L | 0.033 | 32 | 8286 | 6833 | 4 |
| [] Cr | 52 | 0.009 | ug/L | 0.001 | 15 | 7360 | 7220 | 1 |
| [] Cr | 53 | -0.241 | ug/L | 0.103 | 42 | 2713 | 2348 | 3 |
| [] Mn | 55 | -0.035 | ug/L | 0.003 | 8 | 1178 | 554 | 9 |
| [] Co | 59 | -0.004 | ug/L | 0.001 | 21 | 123 | 65 | 16 |
| [>] Ge | 72 | | ug/L | | | 333920 | 330325 | 1 |
| [] Ni | 60 | -0.008 | ug/L | 0.003 | 38 | 109 | 86 | 11 |
| [] Ni | 62 | 0.014 | ug/L | 0.027 | 188 | 54 | 59 | 16 |
| [] Cu | 63 | 0.149 | ug/L | 0.004 | 2 | 248 | 1134 | 3 |
| [] Cu | 65 | 0.138 | ug/L | 0.009 | 6 | 118 | 511 | 3 |
| [] Zn | 66 | 0.246 | ug/L | 0.019 | 7 | 695 | 1133 | 4 |
| [] Zn | 67 | 0.159 | ug/L | 0.058 | 36 | 255 | 300 | 5 |
| [] Zn | 68 | 0.075 | ug/L | 0.204 | 271 | 8462 | 8469 | 4 |
| [] As | 75 | 0.024 | ug/L | 0.021 | 87 | 693 | 729 | 4 |
| [] As-1 | 75 | -0.116 | ug/L | 0.064 | 55 | 11505 | 11173 | 2 |
| [] Se | 82 | -0.058 | ug/L | 0.035 | 61 | -5 | -17 | 40 |
| [] Se | 78 | -0.431 | ug/L | 0.280 | 64 | 11713 | 11376 | 2 |
| [] Mo | 98 | -0.017 | ug/L | 0.004 | 21 | 207 | 92 | 24 |
| [] Y | 89 | | ug/L | | | 309412 | 304704 | 3 |
| [] Kr | 83 | | ug/L | | | 376 | 400 | 1 |
| [>] In | 115 | | ug/L | | | 365357 | 349564 | 3 |
| [] Ag | 107 | 0.003 | ug/L | 0.002 | 73 | 101 | 127 | 13 |
| [] Cd | 111 | 0.004 | ug/L | 0.004 | 124 | 166 | 169 | 6 |
| [] Cd | 114 | 0.002 | ug/L | 0.001 | 33 | 27 | 37 | 11 |
| [] Sb | 121 | 0.013 | ug/L | 0.004 | 30 | 240 | 355 | 7 |
| [] Sb | 123 | 0.014 | ug/L | 0.003 | 19 | 169 | 263 | 4 |
| [] Ba | 135 | 0.015 | ug/L | 0.004 | 29 | 32 | 66 | 14 |
| [] Ba | 137 | 0.009 | ug/L | 0.001 | 15 | 65 | 99 | 5 |
| [>] Tb | 159 | | ug/L | | | 430587 | 413610 | 2 |
| [] Tl | 205 | 0.002 | ug/L | 0.002 | 61 | 147 | 210 | 17 |
| [] Pb | 208 | 0.103 | ug/L | 0.004 | 3 | 1493 | 5406 | 1 |
| [] Bi | 209 | | ug/L | | | 345109 | 333698 | 1 |
| [] Th | 232 | 0.034 | ug/L | 0.005 | 14 | 719 | 2184 | 7 |
| [] U | 238 | 0.001 | ug/L | 0.001 | 49 | 97 | 150 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:20:32

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 448883 | 0 |
| [Be | 9 | -0.002 | ug/L | 0.003 | 198 | 3 | 2 | 50 |
| C | 13 | | mg/L | | | 5654 | 6635 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2487338 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 256336 | 1 |
| V | 51 | -0.007 | ug/L | 0.016 | 243 | 2402 | 2267 | 6 |
| V-1 | 51 | -0.139 | ug/L | 0.013 | 9 | 8286 | 6484 | 0 |
| Cr | 52 | 0.062 | ug/L | 0.019 | 31 | 7360 | 7793 | 1 |
| Cr | 53 | -0.359 | ug/L | 0.038 | 10 | 2713 | 2229 | 1 |
| Mn | 55 | -0.014 | ug/L | 0.006 | 46 | 1178 | 921 | 9 |
| Co | 59 | 0.004 | ug/L | 0.000 | 10 | 123 | 171 | 4 |
| > Ge | 72 | | ug/L | | | 333920 | 331072 | 0 |
| Ni | 60 | -0.004 | ug/L | 0.001 | 15 | 109 | 97 | 1 |
| Ni | 62 | 0.013 | ug/L | 0.031 | 242 | 54 | 58 | 20 |
| Cu | 63 | 0.244 | ug/L | 0.002 | 0 | 248 | 1704 | 1 |
| Cu | 65 | 0.249 | ug/L | 0.010 | 4 | 118 | 829 | 4 |
| Zn | 66 | 0.261 | ug/L | 0.018 | 6 | 695 | 1163 | 3 |
| Zn | 67 | 0.133 | ug/L | 0.038 | 28 | 255 | 293 | 4 |
| Zn | 68 | 0.497 | ug/L | 0.116 | 23 | 8462 | 9023 | 1 |
| As | 75 | 0.022 | ug/L | 0.020 | 88 | 693 | 727 | 4 |
| As-1 | 75 | 0.164 | ug/L | 0.142 | 87 | 11505 | 11701 | 1 |
| Se | 82 | -0.082 | ug/L | 0.033 | 39 | -5 | -22 | 30 |
| Se | 78 | 0.600 | ug/L | 0.460 | 76 | 11713 | 11908 | 0 |
| Mo | 98 | -0.020 | ug/L | 0.001 | 5 | 207 | 71 | 10 |
| Y | 89 | | ug/L | | | 309412 | 305035 | 1 |
| Kr | 83 | | ug/L | | | 376 | 406 | 4 |
| > In | 115 | | ug/L | | | 365357 | 353350 | 1 |
| Ag | 107 | 0.000 | ug/L | 0.001 | 228 | 101 | 103 | 13 |
| Cd | 111 | -0.002 | ug/L | 0.002 | 158 | 166 | 157 | 5 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 51 | 27 | 45 | 20 |
| Sb | 121 | -0.001 | ug/L | 0.003 | 194 | 240 | 217 | 13 |
| Sb | 123 | 0.001 | ug/L | 0.003 | 189 | 169 | 174 | 10 |
| Ba | 135 | 0.032 | ug/L | 0.009 | 27 | 32 | 110 | 19 |
| Ba | 137 | 0.033 | ug/L | 0.007 | 21 | 65 | 202 | 13 |
| > Tb | 159 | | ug/L | | | 430587 | 419671 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 83 | 147 | 125 | 12 |
| Pb | 208 | 0.103 | ug/L | 0.002 | 1 | 1493 | 5458 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 332634 | 1 |
| Th | 232 | 0.028 | ug/L | 0.002 | 6 | 719 | 1928 | 4 |
| U | 238 | 0.001 | ug/L | 0.000 | 14 | 97 | 124 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:26:19

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 437753 | 1 |
| [Be | 9 | 28.612 | ug/L | 0.294 | 1 | 3 | 11609 | 0 |
| C | 13 | | mg/L | | | 5654 | 8109 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2477507 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 247831 | 2 |
| V | 51 | 27.396 | ug/L | 0.624 | 2 | 2402 | 304314 | 0 |
| V-1 | 51 | 27.359 | ug/L | 0.671 | 2 | 8286 | 313565 | 1 |
| Cr | 52 | 28.062 | ug/L | 0.368 | 1 | 7360 | 275461 | 1 |
| Cr | 53 | 27.917 | ug/L | 0.482 | 1 | 2713 | 34085 | 1 |
| Mn | 55 | 27.869 | ug/L | 0.871 | 3 | 1178 | 451152 | 0 |
| [Co | 59 | 28.299 | ug/L | 0.770 | 2 | 123 | 347518 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 317440 | 1 |
| Ni | 60 | 28.888 | ug/L | 0.613 | 2 | 109 | 74093 | 0 |
| Ni | 62 | 29.156 | ug/L | 0.523 | 1 | 54 | 11222 | 0 |
| Cu | 63 | 30.488 | ug/L | 0.174 | 0 | 248 | 175026 | 1 |
| Cu | 65 | 30.067 | ug/L | 0.428 | 1 | 118 | 82632 | 2 |
| Zn | 66 | 89.151 | ug/L | 1.115 | 1 | 695 | 155418 | 0 |
| Zn | 67 | 81.519 | ug/L | 1.438 | 1 | 255 | 23825 | 0 |
| Zn | 68 | 88.605 | ug/L | 1.248 | 1 | 8462 | 116242 | 0 |
| As | 75 | 29.418 | ug/L | 0.392 | 1 | 693 | 52338 | 0 |
| As-1 | 75 | 29.050 | ug/L | 0.787 | 2 | 11505 | 61238 | 0 |
| Se | 82 | 84.639 | ug/L | 1.148 | 1 | -5 | 16576 | 0 |
| Se | 78 | 86.386 | ug/L | 2.639 | 3 | 11713 | 51960 | 0 |
| [Mo | 98 | -0.016 | ug/L | 0.001 | 9 | 207 | 94 | 8 |
| Y | 89 | | ug/L | | | 309412 | 292270 | 0 |
| Kr | 83 | | ug/L | | | 376 | 391 | 0 |
| > In | 115 | | ug/L | | | 365357 | 339920 | 0 |
| Ag | 107 | 28.810 | ug/L | 0.254 | 0 | 101 | 323941 | 0 |
| Cd | 111 | 27.762 | ug/L | 0.229 | 0 | 166 | 76871 | 0 |
| Cd | 114 | 27.397 | ug/L | 0.186 | 0 | 27 | 178187 | 0 |
| Sb | 121 | -0.001 | ug/L | 0.003 | 363 | 240 | 215 | 13 |
| Sb | 123 | -0.000 | ug/L | 0.001 | 186 | 169 | 155 | 2 |
| Ba | 135 | 27.903 | ug/L | 0.263 | 0 | 32 | 65806 | 1 |
| [Ba | 137 | 28.036 | ug/L | 0.285 | 1 | 65 | 114222 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 406558 | 0 |
| Tl | 205 | 29.224 | ug/L | 0.356 | 1 | 147 | 804391 | 1 |
| Pb | 208 | 29.429 | ug/L | 0.147 | 0 | 1493 | 1112155 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 327408 | 0 |
| Th | 232 | 29.519 | ug/L | 0.455 | 1 | 719 | 1273791 | 1 |
| [U | 238 | 29.493 | ug/L | 0.082 | 0 | 97 | 1359345 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:32:36

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 453325 | 1 |
| [Be | 9 | 26.966 | ug/L | 0.444 | 1 | 3 | 11329 | 1 |
| . C | 13 | | mg/L | | | 5654 | 7256 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2478205 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 253413 | 0 |
| V | 51 | 26.056 | ug/L | 0.229 | 0 | 2402 | 296172 | 1 |
| V-1 | 51 | 26.170 | ug/L | 0.207 | 0 | 8286 | 307159 | 1 |
| Cr | 52 | 26.303 | ug/L | 0.405 | 1 | 7360 | 264493 | 1 |
| Cr | 53 | 26.655 | ug/L | 0.482 | 1 | 2713 | 33401 | 1 |
| Mn | 55 | 26.518 | ug/L | 0.360 | 1 | 1178 | 439217 | 1 |
| Co | 59 | 27.238 | ug/L | 0.410 | 1 | 123 | 342145 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 329314 | 0 |
| Ni | 60 | 27.332 | ug/L | 0.559 | 2 | 109 | 72745 | 1 |
| Ni | 62 | 27.569 | ug/L | 0.392 | 1 | 54 | 11013 | 1 |
| Cu | 63 | 28.387 | ug/L | 0.178 | 0 | 248 | 169082 | 0 |
| Cu | 65 | 28.868 | ug/L | 0.239 | 0 | 118 | 82314 | 1 |
| Zn | 66 | 84.917 | ug/L | 0.075 | 0 | 695 | 153630 | 0 |
| Zn | 67 | 78.909 | ug/L | 0.697 | 0 | 255 | 23938 | 1 |
| Zn | 68 | 85.008 | ug/L | 1.296 | 1 | 8462 | 116050 | 1 |
| As | 75 | 28.016 | ug/L | 0.043 | 0 | 693 | 51750 | 0 |
| As-1 | 75 | 27.369 | ug/L | 0.196 | 0 | 11505 | 60524 | 0 |
| Se | 82 | 81.840 | ug/L | 0.858 | 1 | -5 | 16629 | 0 |
| Se | 78 | 82.436 | ug/L | 1.321 | 1 | 11713 | 51979 | 0 |
| Mo | 98 | -0.016 | ug/L | 0.003 | 16 | 207 | 96 | 18 |
| Y | 89 | | ug/L | | | 309412 | 305641 | 1 |
| Kr | 83 | | ug/L | | | 376 | 395 | 1 |
| > In | 115 | | ug/L | | | 365357 | 352343 | 1 |
| Ag | 107 | 27.391 | ug/L | 0.141 | 0 | 101 | 319241 | 0 |
| Cd | 111 | 26.342 | ug/L | 0.578 | 2 | 166 | 75605 | 1 |
| Cd | 114 | 26.293 | ug/L | 0.781 | 2 | 27 | 177228 | 2 |
| Sb | 121 | -0.006 | ug/L | 0.001 | 17 | 240 | 174 | 6 |
| Sb | 123 | -0.004 | ug/L | 0.002 | 56 | 169 | 133 | 13 |
| Ba | 135 | 26.497 | ug/L | 0.218 | 0 | 32 | 64773 | 0 |
| Ba | 137 | 26.390 | ug/L | 0.244 | 0 | 65 | 111446 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 416385 | 0 |
| Ti | 205 | 28.047 | ug/L | 0.173 | 0 | 147 | 790651 | 0 |
| Pb | 208 | 28.181 | ug/L | 0.075 | 0 | 1493 | 1090793 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 338943 | 1 |
| Th | 232 | 28.192 | ug/L | 0.205 | 0 | 719 | 1245920 | 0 |
| U | 238 | 27.892 | ug/L | 0.375 | 1 | 97 | 1316647 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:38:52

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 433918 | 1 |
| [Be | 9 | 0.006 | ug/L | 0.008 | 133 | 3 | 5 | 58 |
| C | 13 | | mg/L | | | 5654 | 11683 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2516181 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 274186 | 0 |
| V | 51 | 2.566 | ug/L | 0.098 | 3 | 2402 | 33809 | 2 |
| V-1 | 51 | 2.536 | ug/L | 0.049 | 1 | 8286 | 40016 | 0 |
| Cr | 52 | 10.022 | ug/L | 0.095 | 0 | 7360 | 113797 | 0 |
| Cr | 53 | 9.611 | ug/L | 0.102 | 1 | 2713 | 14844 | 1 |
| Mn | 55 | 968.563 | ug/L | 3.791 | 0 | 1178 | 17313495 | 0 |
| [Co | 59 | 0.920 | ug/L | 0.017 | 1 | 123 | 12629 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 330561 | 0 |
| Ni | 60 | 2.238 | ug/L | 0.016 | 0 | 109 | 6079 | 0 |
| Ni | 62 | 1.951 | ug/L | 0.147 | 7 | 54 | 832 | 7 |
| Cu | 63 | 62.940 | ug/L | 0.875 | 1 | 248 | 376011 | 1 |
| Cu | 65 | 61.883 | ug/L | 0.542 | 0 | 118 | 176982 | 0 |
| Zn | 66 | 136.751 | ug/L | 1.566 | 1 | 695 | 247922 | 1 |
| Zn | 67 | 122.523 | ug/L | 1.371 | 1 | 255 | 37169 | 0 |
| Zn | 68 | 135.921 | ug/L | 1.393 | 1 | 8462 | 181239 | 0 |
| As | 75 | 13.187 | ug/L | 0.078 | 0 | 693 | 24812 | 0 |
| As-1 | 75 | 13.327 | ug/L | 0.048 | 0 | 11505 | 35428 | 0 |
| Se | 82 | 0.263 | ug/L | 0.067 | 25 | -5 | 48 | 28 |
| Se | 78 | 0.156 | ug/L | 0.222 | 142 | 11713 | 11672 | 0 |
| Mo | 98 | 3.637 | ug/L | 0.036 | 0 | 207 | 24725 | 0 |
| Y | 89 | | ug/L | | | 309412 | 310707 | 1 |
| Kr | 83 | | ug/L | | | 376 | 383 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 349845 | 0 |
| Ag | 107 | 0.023 | ug/L | 0.006 | 27 | 101 | 367 | 20 |
| Cd | 111 | 0.829 | ug/L | 0.016 | 1 | 166 | 2518 | 1 |
| Cd | 114 | 0.805 | ug/L | 0.012 | 1 | 27 | 5412 | 1 |
| Sb | 121 | 0.483 | ug/L | 0.003 | 0 | 240 | 4900 | 0 |
| Sb | 123 | 0.492 | ug/L | 0.016 | 3 | 169 | 3739 | 2 |
| Ba | 135 | 13.851 | ug/L | 0.102 | 0 | 32 | 33636 | 0 |
| Ba | 137 | 13.973 | ug/L | 0.107 | 0 | 65 | 58622 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 415661 | 1 |
| Tl | 205 | 0.014 | ug/L | 0.004 | 26 | 147 | 545 | 18 |
| Pb | 208 | 2.441 | ug/L | 0.056 | 2 | 1493 | 95633 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 327060 | 1 |
| Th | 232 | 0.159 | ug/L | 0.018 | 11 | 719 | 7713 | 9 |
| [U | 238 | 0.037 | ug/L | 0.003 | 7 | 97 | 1832 | 6 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:45:09

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [>] Li | 6 | | ug/L | | | 477870 | 438054 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.003 | 64 | 3 | 5 | 25 |
| C | 13 | | mg/L | | | 5654 | 10123 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2509899 | 0 |
| [>] Sc | 45 | | ug/L | | | 262568 | 285929 | 1 |
| V | 51 | 0.976 | ug/L | 0.036 | 3 | 2402 | 15031 | 3 |
| V-1 | 51 | 0.865 | ug/L | 0.018 | 2 | 8286 | 20183 | 1 |
| Cr | 52 | 4.495 | ug/L | 0.042 | 0 | 7360 | 57648 | 0 |
| Cr | 53 | 3.996 | ug/L | 0.084 | 2 | 2713 | 8161 | 0 |
| Mn | 55 | 1239.413 | ug/L | 15.369 | 1 | 1178 | 23101538 | 0 |
| Co | 59 | 0.960 | ug/L | 0.031 | 3 | 123 | 13738 | 2 |
| [>] Ge | 72 | | ug/L | | | 333920 | 328238 | 0 |
| Ni | 60 | 2.153 | ug/L | 0.026 | 1 | 109 | 5809 | 0 |
| Ni | 62 | 1.965 | ug/L | 0.033 | 1 | 54 | 831 | 1 |
| Cu | 63 | 34.594 | ug/L | 0.267 | 0 | 248 | 205321 | 0 |
| Cu | 65 | 34.295 | ug/L | 0.179 | 0 | 118 | 97442 | 0 |
| Zn | 66 | 88.341 | ug/L | 0.094 | 0 | 695 | 159275 | 0 |
| Zn | 67 | 79.506 | ug/L | 0.743 | 0 | 255 | 24037 | 0 |
| Zn | 68 | 88.335 | ug/L | 0.981 | 1 | 8462 | 119872 | 1 |
| As | 75 | 6.790 | ug/L | 0.094 | 1 | 693 | 13017 | 0 |
| As-1 | 75 | 6.919 | ug/L | 0.080 | 1 | 11505 | 23702 | 0 |
| Se | 82 | 0.184 | ug/L | 0.028 | 15 | -5 | 31 | 18 |
| Se | 78 | 0.455 | ug/L | 0.216 | 47 | 11713 | 11736 | 1 |
| Mo | 98 | 3.226 | ug/L | 0.063 | 1 | 207 | 21798 | 1 |
| Y | 89 | | ug/L | | | 309412 | 306144 | 1 |
| Kr | 83 | | ug/L | | | 376 | 398 | 1 |
| [>] In | 115 | | ug/L | | | 365357 | 348661 | 1 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 18 | 101 | 153 | 5 |
| Cd | 111 | 0.388 | ug/L | 0.010 | 2 | 166 | 1260 | 3 |
| Cd | 114 | 0.401 | ug/L | 0.006 | 1 | 27 | 2698 | 0 |
| Sb | 121 | 0.377 | ug/L | 0.013 | 3 | 240 | 3868 | 2 |
| Sb | 123 | 0.373 | ug/L | 0.004 | 1 | 169 | 2866 | 1 |
| Ba | 135 | 9.981 | ug/L | 0.081 | 0 | 32 | 24164 | 0 |
| Ba | 137 | 9.835 | ug/L | 0.066 | 0 | 65 | 41142 | 1 |
| [>] Tb | 159 | | ug/L | | | 430587 | 417833 | 0 |
| Tl | 205 | 0.005 | ug/L | 0.001 | 22 | 147 | 284 | 11 |
| Pb | 208 | 0.722 | ug/L | 0.012 | 1 | 1493 | 29467 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 326676 | 1 |
| Th | 232 | 0.077 | ug/L | 0.005 | 6 | 719 | 4116 | 5 |
| U | 238 | 0.023 | ug/L | 0.000 | 1 | 97 | 1163 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:51:28

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 407598 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.008 | 217 | 3 | 4 | 69 |
| C | 13 | | mg/L | | | 5654 | 10204 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2547808 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 249257 | 0 |
| V | 51 | 1.773 | ug/L | 0.025 | 1 | 2402 | 21950 | 1 |
| V-1 | 51 | 1.638 | ug/L | 0.026 | 1 | 8286 | 26284 | 1 |
| Cr | 52 | 0.578 | ug/L | 0.012 | 2 | 7360 | 12547 | 0 |
| Cr | 53 | 0.200 | ug/L | 0.011 | 5 | 2713 | 2803 | 1 |
| Mn | 55 | 596.368 | ug/L | 4.744 | 0 | 1178 | 9691557 | 0 |
| [Co | 59 | 0.612 | ug/L | 0.004 | 0 | 123 | 7681 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 308910 | 0 |
| Ni | 60 | 1.529 | ug/L | 0.040 | 2 | 109 | 3913 | 2 |
| Ni | 62 | 1.670 | ug/L | 0.115 | 6 | 54 | 673 | 6 |
| Cu | 63 | 10.136 | ug/L | 0.014 | 0 | 248 | 56784 | 0 |
| Cu | 65 | 10.199 | ug/L | 0.099 | 0 | 118 | 27350 | 0 |
| Zn | 66 | 80.613 | ug/L | 0.661 | 0 | 695 | 136836 | 0 |
| Zn | 67 | 73.690 | ug/L | 0.336 | 0 | 255 | 20985 | 0 |
| Zn | 68 | 82.021 | ug/L | 0.701 | 0 | 8462 | 105311 | 0 |
| As | 75 | 7.509 | ug/L | 0.052 | 0 | 693 | 13479 | 0 |
| As-1 | 75 | 8.098 | ug/L | 0.078 | 0 | 11505 | 24292 | 0 |
| Se | 82 | 0.138 | ug/L | 0.095 | 69 | -5 | 21 | 85 |
| Se | 78 | 2.153 | ug/L | 0.205 | 9 | 11713 | 11827 | 0 |
| [Mo | 98 | 3.610 | ug/L | 0.034 | 0 | 207 | 22936 | 0 |
| Y | 89 | | ug/L | | | 309412 | 286669 | 1 |
| Kr | 83 | | ug/L | | | 376 | 393 | 2 |
| > In | 115 | | ug/L | | | 365357 | 325759 | 1 |
| Ag | 107 | 0.006 | ug/L | 0.002 | 33 | 101 | 153 | 15 |
| Cd | 111 | 0.146 | ug/L | 0.004 | 2 | 166 | 534 | 3 |
| Cd | 114 | 0.128 | ug/L | 0.006 | 4 | 27 | 819 | 3 |
| Sb | 121 | 0.613 | ug/L | 0.020 | 3 | 240 | 5741 | 3 |
| Sb | 123 | 0.625 | ug/L | 0.012 | 1 | 169 | 4380 | 0 |
| Ba | 135 | 24.301 | ug/L | 0.674 | 2 | 32 | 54909 | 0 |
| [Ba | 137 | 24.115 | ug/L | 0.749 | 3 | 65 | 94130 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 387854 | 1 |
| Tl | 205 | 0.004 | ug/L | 0.001 | 22 | 147 | 232 | 8 |
| Pb | 208 | 3.982 | ug/L | 0.033 | 0 | 1493 | 144719 | 0 |
| [Bi | 209 | | ug/L | | | 345109 | 308369 | 0 |
| Th | 232 | 0.058 | ug/L | 0.003 | 5 | 719 | 3032 | 2 |
| [U | 238 | 0.021 | ug/L | 0.001 | 6 | 97 | 1023 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV05 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 19:57:48

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 450485 | 0 |
| [Be | 9 | 0.006 | ug/L | 0.012 | 188 | 3 | 5 | 86 |
| C | 13 | | mg/L | | | 5654 | 7902 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2514270 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 263044 | 2 |
| V | 51 | 0.648 | ug/L | 0.024 | 3 | 2402 | 9984 | 1 |
| V-1 | 51 | 0.504 | ug/L | 0.024 | 4 | 8286 | 14277 | 0 |
| Cr | 52 | 0.888 | ug/L | 0.045 | 5 | 7360 | 16386 | 0 |
| Cr | 53 | 0.423 | ug/L | 0.054 | 12 | 2713 | 3224 | 0 |
| Mn | 55 | 11.246 | ug/L | 0.151 | 1 | 1178 | 193999 | 1 |
| [Co | 59 | 0.083 | ug/L | 0.002 | 2 | 123 | 1200 | 2 |
| [> Ge | 72 | | ug/L | | | 333920 | 336212 | 0 |
| Ni | 60 | 0.759 | ug/L | 0.025 | 3 | 109 | 2170 | 2 |
| Ni | 62 | 0.969 | ug/L | 0.032 | 3 | 54 | 447 | 3 |
| Cu | 63 | 3.376 | ug/L | 0.055 | 1 | 248 | 20751 | 1 |
| Cu | 65 | 3.373 | ug/L | 0.076 | 2 | 118 | 9922 | 1 |
| Zn | 66 | 327.402 | ug/L | 3.425 | 1 | 695 | 602731 | 1 |
| Zn | 67 | 291.576 | ug/L | 1.662 | 0 | 255 | 89615 | 1 |
| Zn | 68 | 322.995 | ug/L | 3.898 | 1 | 8462 | 426309 | 0 |
| As | 75 | 1.800 | ug/L | 0.001 | 0 | 693 | 4048 | 0 |
| As-1 | 75 | 1.864 | ug/L | 0.019 | 1 | 11505 | 15003 | 0 |
| Se | 82 | 0.090 | ug/L | 0.087 | 96 | -5 | 13 | 136 |
| Se | 78 | 0.311 | ug/L | 0.082 | 26 | 11713 | 11949 | 1 |
| [Mo | 98 | 0.402 | ug/L | 0.015 | 3 | 207 | 2968 | 3 |
| Y | 89 | | ug/L | | | 309412 | 308078 | 1 |
| Kr | 83 | | ug/L | | | 376 | 394 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 354741 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.000 | 33 | 101 | 114 | 4 |
| Cd | 111 | 0.941 | ug/L | 0.037 | 3 | 166 | 2876 | 4 |
| Cd | 114 | 0.928 | ug/L | 0.017 | 1 | 27 | 6324 | 1 |
| Sb | 121 | 30.573 | ug/L | 0.355 | 1 | 240 | 300253 | 0 |
| Sb | 123 | 30.656 | ug/L | 0.298 | 0 | 169 | 226051 | 0 |
| Ba | 135 | 6.073 | ug/L | 0.110 | 1 | 32 | 14971 | 1 |
| [Ba | 137 | 6.068 | ug/L | 0.123 | 2 | 65 | 25849 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 420443 | 1 |
| Tl | 205 | 0.016 | ug/L | 0.001 | 5 | 147 | 587 | 2 |
| Pb | 208 | 0.484 | ug/L | 0.004 | 0 | 1493 | 20353 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 337556 | 0 |
| Th | 232 | 0.015 | ug/L | 0.004 | 23 | 719 | 1357 | 11 |
| [U | 238 | 0.012 | ug/L | 0.000 | 2 | 97 | 680 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:04:06

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 414655 | 0 |
| [Be | 9 | 0.005 | ug/L | 0.009 | 156 | 3 | 5 | 66 |
| C | 13 | | mg/L | | | 5654 | 8319 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2463071 | 1 |
| [> Sc | 45 | | ug/L | | | 262568 | 242739 | 1 |
| V | 51 | 1.067 | ug/L | 0.020 | 1 | 2402 | 13751 | 1 |
| V-1 | 51 | 0.953 | ug/L | 0.011 | 1 | 8286 | 18091 | 0 |
| Cr | 52 | 1.600 | ug/L | 0.045 | 2 | 7360 | 21803 | 2 |
| Cr | 53 | 1.214 | ug/L | 0.114 | 9 | 2713 | 3851 | 3 |
| Mn | 55 | 90.690 | ug/L | 1.520 | 1 | 1178 | 1436040 | 0 |
| [Co | 59 | 0.664 | ug/L | 0.005 | 0 | 123 | 8095 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 303932 | 0 |
| Ni | 60 | 2.487 | ug/L | 0.062 | 2 | 109 | 6198 | 2 |
| Ni | 62 | 2.740 | ug/L | 0.200 | 7 | 54 | 1054 | 7 |
| Cu | 63 | 17.701 | ug/L | 0.103 | 0 | 248 | 97395 | 0 |
| Cu | 65 | 17.623 | ug/L | 0.082 | 0 | 118 | 46418 | 0 |
| Zn | 66 | 406.510 | ug/L | 0.991 | 0 | 695 | 676367 | 0 |
| Zn | 67 | 360.340 | ug/L | 1.574 | 0 | 255 | 100060 | 0 |
| Zn | 68 | 401.484 | ug/L | 2.923 | 0 | 8462 | 477175 | 0 |
| As | 75 | 2.023 | ug/L | 0.014 | 0 | 693 | 4033 | 0 |
| As-1 | 75 | 2.543 | ug/L | 0.025 | 0 | 11505 | 14690 | 0 |
| Se | 82 | -0.030 | ug/L | 0.075 | 251 | -5 | -10 | 132 |
| Se | 78 | 2.117 | ug/L | 0.129 | 6 | 11713 | 11619 | 0 |
| [Mo | 98 | 0.639 | ug/L | 0.008 | 1 | 207 | 4151 | 1 |
| Y | 89 | | ug/L | | | 309412 | 290327 | 1 |
| Kr | 83 | | ug/L | | | 376 | 405 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 319035 | 1 |
| Ag | 107 | 0.026 | ug/L | 0.001 | 3 | 101 | 357 | 2 |
| Cd | 111 | 0.318 | ug/L | 0.013 | 3 | 166 | 969 | 2 |
| Cd | 114 | 0.278 | ug/L | 0.011 | 3 | 27 | 1720 | 3 |
| Sb | 121 | 0.988 | ug/L | 0.009 | 0 | 240 | 8934 | 2 |
| Sb | 123 | 0.998 | ug/L | 0.009 | 0 | 169 | 6763 | 1 |
| Ba | 135 | 5.482 | ug/L | 0.043 | 0 | 32 | 12157 | 1 |
| [Ba | 137 | 5.484 | ug/L | 0.012 | 0 | 65 | 21018 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 377190 | 1 |
| Tl | 205 | 0.012 | ug/L | 0.001 | 8 | 147 | 435 | 6 |
| Pb | 208 | 1.337 | ug/L | 0.023 | 1 | 1493 | 48121 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 306213 | 0 |
| Th | 232 | 0.038 | ug/L | 0.001 | 2 | 719 | 2163 | 0 |
| [U | 238 | 0.026 | ug/L | 0.000 | 1 | 97 | 1195 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV06 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:10:24

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

Ren

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 411922 | 0 |
| [Be | 9 | 0.013 | ug/L | 0.002 | 13 | 3 | 7 | 9 |
| C | 13 | | mg/L | | | 5654 | 8159 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2427130 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 238955 | 1 |
| V | 51 | 0.584 | ug/L | 0.023 | 3 | 2402 | 8398 | 2 |
| V-1 | 51 | 0.490 | ug/L | 0.016 | 3 | 8286 | 12819 | 0 |
| Cr | 52 | 1.156 | ug/L | 0.005 | 0 | 7360 | 17368 | 0 |
| Cr | 53 | 0.833 | ug/L | 0.051 | 6 | 2713 | 3376 | 1 |
| Mn | 55 | 72.300 | ug/L | 1.292 | 1 | 1178 | 1127367 | 2 |
| Co | 59 | 0.432 | ug/L | 0.007 | 1 | 123 | 5222 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 299531 | 0 |
| Ni | 60 | 2.054 | ug/L | 0.026 | 1 | 109 | 5063 | 1 |
| Ni | 62 | 1.985 | ug/L | 0.118 | 5 | 54 | 766 | 5 |
| Cu | 63 | 14.023 | ug/L | 0.251 | 1 | 248 | 76084 | 1 |
| Cu | 65 | 13.920 | ug/L | 0.133 | 0 | 118 | 36157 | 1 |
| Zn | 66 | 358.922 | ug/L | 3.732 | 1 | 695 | 588616 | 1 |
| Zn | 67 | 322.418 | ug/L | 4.358 | 1 | 255 | 88258 | 1 |
| Zn | 68 | 359.168 | ug/L | 3.568 | 0 | 8462 | 421504 | 0 |
| As | 75 | 1.674 | ug/L | 0.033 | 1 | 693 | 3397 | 1 |
| As-1 | 75 | 2.102 | ug/L | 0.038 | 1 | 11505 | 13756 | 0 |
| Se | 82 | 0.065 | ug/L | 0.076 | 117 | -5 | 7 | 198 |
| Se | 78 | 1.894 | ug/L | 0.191 | 10 | 11713 | 11352 | 0 |
| Mo | 98 | 0.572 | ug/L | 0.012 | 2 | 207 | 3682 | 1 |
| Y | 89 | | ug/L | | | 309412 | 279653 | 0 |
| Kr | 83 | | ug/L | | | 376 | 399 | 4 |
| > In | 115 | | ug/L | | | 365357 | 318089 | 0 |
| Ag | 107 | 0.012 | ug/L | 0.001 | 8 | 101 | 215 | 5 |
| Cd | 111 | 0.210 | ug/L | 0.011 | 5 | 166 | 689 | 3 |
| Cd | 114 | 0.223 | ug/L | 0.006 | 2 | 27 | 1381 | 3 |
| Sb | 121 | 0.860 | ug/L | 0.014 | 1 | 240 | 7778 | 1 |
| Sb | 123 | 0.882 | ug/L | 0.006 | 0 | 169 | 5974 | 1 |
| Ba | 135 | 3.436 | ug/L | 0.035 | 1 | 32 | 7608 | 1 |
| Ba | 137 | 3.442 | ug/L | 0.059 | 1 | 65 | 13170 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 377939 | 1 |
| Tl | 205 | 0.008 | ug/L | 0.001 | 13 | 147 | 332 | 9 |
| Pb | 208 | 0.417 | ug/L | 0.010 | 2 | 1493 | 15955 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 301204 | 1 |
| Th | 232 | 0.012 | ug/L | 0.001 | 7 | 719 | 1124 | 3 |
| U | 238 | 0.013 | ug/L | 0.001 | 9 | 97 | 651 | 9 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:16:44

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 442781 | 0 |
| [Be | 9 | 52.490 | ug/L | 0.427 | 0 | 3 | 21540 | 0 |
| C | 13 | | mg/L | | | 5654 | 5494 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2476583 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 246512 | 1 |
| V | 51 | 49.076 | ug/L | 0.201 | 0 | 2402 | 540639 | 1 |
| V-1 | 51 | 49.372 | ug/L | 0.048 | 0 | 8286 | 556775 | 1 |
| Cr | 52 | 49.264 | ug/L | 0.265 | 0 | 7360 | 475864 | 0 |
| Cr | 53 | 50.192 | ug/L | 0.722 | 1 | 2713 | 58932 | 0 |
| Mn | 55 | 48.578 | ug/L | 0.106 | 0 | 1178 | 781757 | 1 |
| [Co | 59 | 49.585 | ug/L | 0.607 | 1 | 123 | 605857 | 2 |
| [> Ge | 72 | | ug/L | | | 333920 | 327674 | 0 |
| Ni | 60 | 48.723 | ug/L | 0.565 | 1 | 109 | 128952 | 0 |
| Ni | 62 | 48.707 | ug/L | 0.322 | 0 | 54 | 19319 | 0 |
| Cu | 63 | 49.632 | ug/L | 0.170 | 0 | 248 | 293976 | 0 |
| Cu | 65 | 49.758 | ug/L | 0.838 | 1 | 118 | 141088 | 1 |
| Zn | 66 | 50.134 | ug/L | 0.110 | 0 | 695 | 90529 | 0 |
| Zn | 67 | 50.189 | ug/L | 0.620 | 1 | 255 | 15240 | 1 |
| Zn | 68 | 50.694 | ug/L | 0.310 | 0 | 8462 | 72215 | 0 |
| As | 75 | 50.740 | ug/L | 0.157 | 0 | 693 | 92706 | 0 |
| As-1 | 75 | 50.356 | ug/L | 0.080 | 0 | 11505 | 101323 | 0 |
| Se | 82 | 48.618 | ug/L | 0.477 | 0 | -5 | 9827 | 0 |
| Se | 78 | 47.166 | ug/L | 1.008 | 2 | 11713 | 34510 | 1 |
| [Mo | 98 | 48.427 | ug/L | 0.176 | 0 | 207 | 323827 | 0 |
| Y | 89 | | ug/L | | | 309412 | 287153 | 0 |
| Kr | 83 | | ug/L | | | 376 | 380 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 337061 | 0 |
| Ag | 107 | 50.390 | ug/L | 0.808 | 1 | 101 | 561698 | 0 |
| Cd | 111 | 49.815 | ug/L | 1.052 | 2 | 166 | 136636 | 1 |
| Cd | 114 | 49.746 | ug/L | 0.749 | 1 | 27 | 320774 | 0 |
| Sb | 121 | 50.076 | ug/L | 0.786 | 1 | 240 | 467128 | 0 |
| Sb | 123 | 50.039 | ug/L | 0.755 | 1 | 169 | 350481 | 0 |
| Ba | 135 | 49.461 | ug/L | 0.368 | 0 | 32 | 115643 | 0 |
| [Ba | 137 | 49.548 | ug/L | 0.586 | 1 | 65 | 200124 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 404724 | 0 |
| Tl | 205 | 50.790 | ug/L | 0.290 | 0 | 147 | 1391592 | 1 |
| Pb | 208 | 50.515 | ug/L | 0.638 | 1 | 1493 | 1899504 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 315280 | 1 |
| Th | 232 | 51.120 | ug/L | 0.141 | 0 | 719 | 2195454 | 0 |
| [U | 238 | 50.505 | ug/L | 0.363 | 0 | 97 | 2317214 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:23:22

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 443438 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.010 | 377 | 3 | 4 | 96 |
| C | 13 | | mg/L | | | 5654 | 5618 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2520052 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 247693 | 1 |
| V | 51 | -0.030 | ug/L | 0.025 | 84 | 2402 | 1934 | 14 |
| V-1 | 51 | -0.094 | ug/L | 0.018 | 19 | 8286 | 6762 | 1 |
| Cr | 52 | -0.022 | ug/L | 0.032 | 141 | 7360 | 6724 | 2 |
| Cr | 53 | -0.226 | ug/L | 0.108 | 47 | 2713 | 2303 | 4 |
| Mn | 55 | -0.015 | ug/L | 0.004 | 24 | 1178 | 869 | 7 |
| Co | 59 | 0.023 | ug/L | 0.001 | 5 | 123 | 393 | 2 |
| > Ge | 72 | | ug/L | | | 333920 | 331377 | 1 |
| Ni | 60 | 0.005 | ug/L | 0.006 | 129 | 109 | 121 | 13 |
| Ni | 62 | 0.067 | ug/L | 0.038 | 57 | 54 | 80 | 18 |
| Cu | 63 | 0.026 | ug/L | 0.006 | 22 | 248 | 401 | 7 |
| Cu | 65 | 0.019 | ug/L | 0.009 | 48 | 118 | 172 | 14 |
| Zn | 66 | 0.253 | ug/L | 0.011 | 4 | 695 | 1148 | 1 |
| Zn | 67 | 0.073 | ug/L | 0.118 | 161 | 255 | 275 | 12 |
| Zn | 68 | -0.123 | ug/L | 0.084 | 67 | 8462 | 8240 | 0 |
| As | 75 | 0.056 | ug/L | 0.008 | 15 | 693 | 789 | 2 |
| As-1 | 75 | -0.366 | ug/L | 0.092 | 25 | 11505 | 10755 | 0 |
| Se | 82 | -0.042 | ug/L | 0.053 | 126 | -5 | -13 | 77 |
| Se | 78 | -1.480 | ug/L | 0.328 | 22 | 11713 | 10892 | 0 |
| Mo | 98 | -0.010 | ug/L | 0.006 | 57 | 207 | 140 | 26 |
| Y | 89 | | ug/L | | | 309412 | 292561 | 0 |
| Kr | 83 | | ug/L | | | 376 | 393 | 0 |
| > In | 115 | | ug/L | | | 365357 | 336184 | 0 |
| Ag | 107 | 0.013 | ug/L | 0.008 | 64 | 101 | 232 | 39 |
| Cd | 111 | 0.007 | ug/L | 0.009 | 133 | 166 | 172 | 15 |
| Cd | 114 | 0.007 | ug/L | 0.004 | 60 | 27 | 68 | 39 |
| Sb | 121 | 0.035 | ug/L | 0.014 | 39 | 240 | 542 | 23 |
| Sb | 123 | 0.041 | ug/L | 0.017 | 41 | 169 | 443 | 27 |
| Ba | 135 | 0.020 | ug/L | 0.005 | 24 | 32 | 75 | 15 |
| Ba | 137 | 0.011 | ug/L | 0.003 | 24 | 65 | 105 | 10 |
| > Tb | 159 | | ug/L | | | 430587 | 401796 | 0 |
| Tl | 205 | 0.013 | ug/L | 0.006 | 50 | 147 | 478 | 36 |
| Pb | 208 | 0.109 | ug/L | 0.004 | 3 | 1493 | 5465 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 320578 | 0 |
| Th | 232 | 0.022 | ug/L | 0.007 | 32 | 719 | 1618 | 19 |
| U | 238 | 0.006 | ug/L | 0.003 | 55 | 97 | 370 | 42 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:29:09

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

ren pb

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 479708 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.002 | 58 | 3 | 4 | 15 |
| C | 13 | | mg/L | | | 5654 | 6409 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2520591 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 275194 | 1 |
| V | 51 | -0.002 | ug/L | 0.011 | 511 | 2402 | 2490 | 4 |
| V-1 | 51 | -0.191 | ug/L | 0.019 | 9 | 8286 | 6314 | 2 |
| Cr | 52 | -0.006 | ug/L | 0.010 | 167 | 7360 | 7646 | 0 |
| Cr | 53 | -0.603 | ug/L | 0.043 | 7 | 2713 | 2087 | 0 |
| Mn | 55 | -0.035 | ug/L | 0.002 | 5 | 1178 | 613 | 4 |
| Co | 59 | -0.004 | ug/L | 0.002 | 38 | 123 | 70 | 30 |
| > Ge | 72 | | ug/L | | | 333920 | 361299 | 0 |
| Ni | 60 | -0.010 | ug/L | 0.005 | 49 | 109 | 88 | 17 |
| Ni | 62 | 0.045 | ug/L | 0.019 | 42 | 54 | 78 | 10 |
| Cu | 63 | 0.223 | ug/L | 0.007 | 2 | 248 | 1722 | 1 |
| Cu | 65 | 0.232 | ug/L | 0.011 | 4 | 118 | 853 | 4 |
| Zn | 66 | 0.217 | ug/L | 0.013 | 5 | 695 | 1182 | 2 |
| Zn | 67 | 0.071 | ug/L | 0.008 | 11 | 255 | 299 | 1 |
| Zn | 68 | -0.247 | ug/L | 0.127 | 51 | 8462 | 8812 | 1 |
| As | 75 | 0.000 | ug/L | 0.009 | 2313 | 693 | 750 | 3 |
| As-1 | 75 | -0.366 | ug/L | 0.046 | 12 | 11505 | 11727 | 0 |
| Se | 82 | -0.042 | ug/L | 0.083 | 196 | -5 | -15 | 120 |
| Se | 78 | -1.438 | ug/L | 0.162 | 11 | 11713 | 11900 | 0 |
| Mo | 98 | -0.016 | ug/L | 0.002 | 11 | 207 | 103 | 13 |
| Y | 89 | | ug/L | | | 309412 | 327007 | 1 |
| Kr | 83 | | ug/L | | | 376 | 395 | 1 |
| > In | 115 | | ug/L | | | 365357 | 377761 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 146 | 101 | 116 | 14 |
| Cd | 111 | 0.003 | ug/L | 0.006 | 231 | 166 | 180 | 9 |
| Cd | 114 | 0.001 | ug/L | 0.001 | 48 | 27 | 36 | 11 |
| Sb | 121 | 0.002 | ug/L | 0.003 | 157 | 240 | 271 | 12 |
| Sb | 123 | 0.003 | ug/L | 0.003 | 104 | 169 | 200 | 12 |
| Ba | 135 | 0.009 | ug/L | 0.002 | 22 | 32 | 57 | 9 |
| Ba | 137 | 0.006 | ug/L | 0.003 | 61 | 65 | 93 | 17 |
| > Tb | 159 | | ug/L | | | 430587 | 444493 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 68 | 147 | 175 | 9 |
| Pb | 208 | 0.115 | ug/L | 0.003 | 2 | 1493 | 6288 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 355052 | 0 |
| Th | 232 | 0.017 | ug/L | 0.004 | 24 | 719 | 1525 | 13 |
| U | 238 | 0.001 | ug/L | 0.000 | 13 | 97 | 149 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:34:58

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

ren pb

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 484526 | 1 |
| [Be | 9 | -0.003 | ug/L | 0.004 | 146 | 3 | 2 | 91 |
| C | 13 | | mg/L | | | 5654 | 6777 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2503542 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 273086 | 0 |
| V | 51 | -0.003 | ug/L | 0.013 | 412 | 2402 | 2459 | 7 |
| V-1 | 51 | -0.197 | ug/L | 0.008 | 4 | 8286 | 6196 | 1 |
| Cr | 52 | 0.023 | ug/L | 0.015 | 64 | 7360 | 7898 | 1 |
| Cr | 53 | -0.590 | ug/L | 0.047 | 7 | 2713 | 2087 | 1 |
| Mn | 55 | -0.010 | ug/L | 0.002 | 21 | 1178 | 1051 | 4 |
| Co | 59 | -0.003 | ug/L | 0.000 | 13 | 123 | 92 | 5 |
| > Ge | 72 | | ug/L | | | 333920 | 358322 | 1 |
| Ni | 60 | -0.003 | ug/L | 0.004 | 101 | 109 | 107 | 8 |
| Ni | 62 | 0.049 | ug/L | 0.033 | 67 | 54 | 79 | 16 |
| Cu | 63 | 0.142 | ug/L | 0.005 | 3 | 248 | 1188 | 1 |
| Cu | 65 | 0.141 | ug/L | 0.009 | 6 | 118 | 564 | 3 |
| Zn | 66 | 0.147 | ug/L | 0.014 | 9 | 695 | 1034 | 4 |
| Zn | 67 | 0.027 | ug/L | 0.009 | 35 | 255 | 282 | 2 |
| Zn | 68 | -0.090 | ug/L | 0.157 | 175 | 8462 | 8955 | 1 |
| As | 75 | -0.003 | ug/L | 0.025 | 764 | 693 | 737 | 7 |
| As-1 | 75 | -0.219 | ug/L | 0.151 | 68 | 11505 | 11914 | 0 |
| Se | 82 | -0.019 | ug/L | 0.085 | 443 | -5 | -9 | 188 |
| Se | 78 | -0.867 | ug/L | 0.568 | 65 | 11713 | 12103 | 0 |
| Mo | 98 | -0.017 | ug/L | 0.002 | 11 | 207 | 99 | 12 |
| Y | 89 | | ug/L | | | 309412 | 326017 | 1 |
| Kr | 83 | | ug/L | | | 376 | 391 | 0 |
| > In | 115 | | ug/L | | | 365357 | 379695 | 0 |
| Ag | 107 | -0.001 | ug/L | 0.001 | 100 | 101 | 92 | 14 |
| Cd | 111 | 0.001 | ug/L | 0.003 | 312 | 166 | 176 | 6 |
| Cd | 114 | 0.001 | ug/L | 0.001 | 137 | 27 | 32 | 17 |
| Sb | 121 | -0.008 | ug/L | 0.001 | 11 | 240 | 165 | 6 |
| Sb | 123 | -0.006 | ug/L | 0.001 | 19 | 169 | 129 | 7 |
| Ba | 135 | 0.029 | ug/L | 0.003 | 10 | 32 | 109 | 6 |
| Ba | 137 | 0.020 | ug/L | 0.001 | 5 | 65 | 160 | 3 |
| > Tb | 159 | | ug/L | | | 430587 | 446765 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 35 | 147 | 119 | 10 |
| Pb | 208 | 0.091 | ug/L | 0.002 | 1 | 1493 | 5331 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 360787 | 0 |
| Th | 232 | 0.010 | ug/L | 0.001 | 8 | 719 | 1216 | 3 |
| U | 238 | 0.000 | ug/L | 0.000 | 45 | 97 | 122 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:40:45

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

ren Pb

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 476050 | 0 |
| [Be | 9 | 25.701 | ug/L | 0.239 | 0 | 3 | 11341 | 1 |
| C | 13 | | mg/L | | | 5654 | 7652 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2493937 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 272683 | 2 |
| V | 51 | 24.395 | ug/L | 0.218 | 0 | 2402 | 298486 | 1 |
| V-1 | 51 | 24.440 | ug/L | 0.256 | 1 | 8286 | 309189 | 1 |
| Cr | 52 | 24.830 | ug/L | 0.229 | 0 | 7360 | 269083 | 1 |
| Cr | 53 | 24.956 | ug/L | 0.352 | 1 | 2713 | 33829 | 1 |
| Mn | 55 | 24.847 | ug/L | 0.343 | 1 | 1178 | 442820 | 0 |
| [Co | 59 | 25.635 | ug/L | 0.249 | 0 | 123 | 346567 | 2 |
| [> Ge | 72 | | ug/L | | | 333920 | 356019 | 1 |
| Ni | 60 | 25.586 | ug/L | 0.130 | 0 | 109 | 73631 | 1 |
| Ni | 62 | 25.958 | ug/L | 0.307 | 1 | 54 | 11213 | 1 |
| Cu | 63 | 26.923 | ug/L | 0.211 | 0 | 248 | 173376 | 0 |
| Cu | 65 | 26.826 | ug/L | 0.333 | 1 | 118 | 82705 | 2 |
| Zn | 66 | 80.136 | ug/L | 0.198 | 0 | 695 | 156780 | 1 |
| Zn | 67 | 74.632 | ug/L | 0.334 | 0 | 255 | 24491 | 1 |
| Zn | 68 | 78.718 | ug/L | 0.221 | 0 | 8462 | 116846 | 1 |
| As | 75 | 25.807 | ug/L | 0.170 | 0 | 693 | 51594 | 1 |
| As-1 | 75 | 24.916 | ug/L | 0.186 | 0 | 11505 | 60666 | 1 |
| Se | 82 | 75.303 | ug/L | 0.510 | 0 | -5 | 16543 | 1 |
| Se | 78 | 74.625 | ug/L | 0.210 | 0 | 11713 | 52055 | 1 |
| [Mo | 98 | -0.014 | ug/L | 0.001 | 3 | 207 | 121 | 2 |
| Y | 89 | | ug/L | | | 309412 | 325909 | 2 |
| Kr | 83 | | ug/L | | | 376 | 394 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 373442 | 1 |
| Ag | 107 | 26.018 | ug/L | 0.282 | 1 | 101 | 321392 | 1 |
| Cd | 111 | 24.718 | ug/L | 0.293 | 1 | 166 | 75204 | 1 |
| Cd | 114 | 24.850 | ug/L | 0.144 | 0 | 27 | 177554 | 1 |
| Sb | 121 | -0.008 | ug/L | 0.000 | 6 | 240 | 166 | 4 |
| Sb | 123 | -0.006 | ug/L | 0.002 | 41 | 169 | 130 | 14 |
| Ba | 135 | 25.240 | ug/L | 0.513 | 2 | 32 | 65399 | 2 |
| [Ba | 137 | 25.331 | ug/L | 0.745 | 2 | 65 | 113373 | 2 |
| [> Tb | 159 | | ug/L | | | 430587 | 443435 | 1 |
| Tl | 205 | 26.346 | ug/L | 0.253 | 0 | 147 | 790930 | 1 |
| Pb | 208 | 26.156 | ug/L | 0.412 | 1 | 1493 | 1078404 | 2 |
| Bi | 209 | | ug/L | | | 345109 | 356329 | 1 |
| Th | 232 | 26.481 | ug/L | 0.405 | 1 | 719 | 1246398 | 1 |
| [U | 238 | 26.358 | ug/L | 0.352 | 1 | 97 | 1325123 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:47:02

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

*real
pb*

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 481504 | 1 |
| [Be | 9 | 25.851 | ug/L | 0.458 | 1 | 3 | 11536 | 0 |
| C | 13 | | mg/L | | | 5654 | 6980 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2504534 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 274452 | 0 |
| V | 51 | 24.618 | ug/L | 0.192 | 0 | 2402 | 303169 | 0 |
| V-1 | 51 | 24.646 | ug/L | 0.208 | 0 | 8286 | 313765 | 0 |
| Cr | 52 | 24.678 | ug/L | 0.287 | 1 | 7360 | 269246 | 1 |
| Cr | 53 | 24.765 | ug/L | 0.282 | 1 | 2713 | 33813 | 1 |
| Mn | 55 | 25.420 | ug/L | 0.200 | 0 | 1178 | 456028 | 0 |
| [Co | 59 | 25.735 | ug/L | 0.242 | 0 | 123 | 350126 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 360404 | 0 |
| Ni | 60 | 25.552 | ug/L | 0.302 | 1 | 109 | 74436 | 0 |
| Ni | 62 | 26.303 | ug/L | 0.577 | 2 | 54 | 11502 | 2 |
| Cu | 63 | 26.707 | ug/L | 0.393 | 1 | 248 | 174104 | 1 |
| Cu | 65 | 26.951 | ug/L | 0.232 | 0 | 118 | 84111 | 1 |
| Zn | 66 | 80.136 | ug/L | 0.413 | 0 | 695 | 158710 | 0 |
| Zn | 67 | 73.644 | ug/L | 0.647 | 0 | 255 | 24467 | 0 |
| Zn | 68 | 79.471 | ug/L | 0.962 | 1 | 8462 | 119324 | 0 |
| As | 75 | 26.101 | ug/L | 0.299 | 1 | 693 | 52812 | 0 |
| As-1 | 75 | 25.021 | ug/L | 0.408 | 1 | 11505 | 61619 | 0 |
| Se | 82 | 77.142 | ug/L | 1.002 | 1 | -5 | 17154 | 0 |
| Se | 78 | 75.866 | ug/L | 1.502 | 1 | 11713 | 53359 | 0 |
| [Mo | 98 | -0.012 | ug/L | 0.003 | 24 | 207 | 133 | 17 |
| Y | 89 | | ug/L | | | 309412 | 331227 | 0 |
| Kr | 83 | | ug/L | | | 376 | 401 | 1 |
| > In | 115 | | ug/L | | | 365357 | 383758 | 0 |
| Ag | 107 | 25.476 | ug/L | 0.402 | 1 | 101 | 323409 | 1 |
| Cd | 111 | 24.674 | ug/L | 0.211 | 0 | 166 | 77155 | 1 |
| Cd | 114 | 24.735 | ug/L | 0.234 | 0 | 27 | 181626 | 1 |
| Sb | 121 | -0.009 | ug/L | 0.003 | 28 | 240 | 157 | 17 |
| Sb | 123 | -0.009 | ug/L | 0.001 | 14 | 169 | 107 | 9 |
| Ba | 135 | 24.782 | ug/L | 0.307 | 1 | 32 | 65985 | 0 |
| [Ba | 137 | 24.663 | ug/L | 0.132 | 0 | 65 | 113449 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 449154 | 0 |
| Tl | 205 | 26.359 | ug/L | 0.442 | 1 | 147 | 801520 | 1 |
| Pb | 208 | 26.632 | ug/L | 0.344 | 1 | 1493 | 1112008 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 365373 | 1 |
| Th | 232 | 26.465 | ug/L | 0.215 | 0 | 719 | 1261669 | 0 |
| [U | 238 | 26.581 | ug/L | 0.282 | 1 | 97 | 1353549 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:53:18

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

rem
pb

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > | Li | 6 | ug/L | | | 477870 | 333285 | 5 |
| [| Be | 9 | ug/L | 0.007 | 77 | 3 | 4 | 41 |
| | C | 13 | mg/L | | | 5654 | 8448 | 0 |
| | Cl | 37 | mg/L | | | 2331174 | 11927728 ✓ | 3 |
| > | Sc | 45 | ug/L | | | 262568 | 248311 | 5 |
| | V | 51 | ug/L | 1.952 | 7 | 2402 | 23852 | 8 |
| | V-1 | 51 | ug/L | 6.035 | 6 | 8286 | 75294 | 3 |
| | Cr | 52 | ug/L | 2.533 | 2 | 7360 | 31228 | 2 |
| | Cr | 53 | ug/L | 15.430 | 10 | 2713 | 19979 | 6 |
| | Mn | 55 | ug/L | 185.286 | 0 | 1178 | 3000585 | 5 |
| | Co | 59 | ug/L | 0.572 | 1 | 123 | 7157 | 5 |
| > | Ge | 72 | ug/L | | | 333920 | 285385 | 3 |
| | Ni | 60 | ug/L | 8.981 | 2 | 109 | 20785 | 5 |
| | Ni | 62 | ug/L | 16.000 | 15 | 54 | 5577 | 19 |
| | Cu | 63 | ug/L | 38.420 | 1 | 248 | 198298 | 4 |
| | Cu | 65 | ug/L | 31.242 | 0 | 118 | 77200 | 4 |
| | Zn | 66 | ug/L | 271.218 | 0 | 695 | 423967 | 4 |
| | Zn | 67 | ug/L | 245.573 | 0 | 255 | 64095 | 3 |
| | Zn | 68 | ug/L | 271.598 | 0 | 8462 | 305441 | 3 |
| | As | 75 | ug/L | 2.592 | 3 | 693 | 4687 | 5 |
| | As-1 | 75 | ug/L | 1.260 | 9 | 11505 | 11791 | 2 |
| | Se | 82 | ug/L | 6.441 | 3 | -5 | 1130 | 6 |
| | Se | 78 | ug/L | 2.737 | 14 | 11713 | 11170 | 2 |
| | Mo | 98 | ug/L | 16.794 | 0 | 207 | 97936 | 4 |
| | Y | 89 | ug/L | | | 309412 | 286507 | 5 |
| | Kr | 83 | ug/L | | | 376 | 481 | 2 |
| > | In | 115 | ug/L | | | 365357 | 322415 | 3 |
| | Ag | 107 | ug/L | 0.052 | 23 | 101 | 650 | 23 |
| | Cd | 111 | ug/L | 0.562 | 39 | 166 | 1625 | 37 |
| | Cd | 114 | ug/L | 1.340 | 0 | 27 | 8288 | 3 |
| | Sb | 121 | ug/L | 1.708 | 0 | 240 | 15449 | 3 |
| | Sb | 123 | ug/L | 1.694 | 0 | 169 | 11497 | 3 |
| | Ba | 135 | ug/L | 91.438 | 0 | 32 | 204479 | 3 |
| | Ba | 137 | ug/L | 90.716 | 1 | 65 | 350401 | 3 |
| > | Tb | 159 | ug/L | | | 430587 | 386477 | 3 |
| | Tl | 205 | ug/L | 0.024 | 24 | 147 | 755 | 24 |
| | Pb | 208 | ug/L | 15.483 | 0 | 1493 | 556821 | 3 |
| | Bi | 209 | ug/L | | | 345109 | 274053 | 3 |
| | Th | 232 | ug/L | 0.128 | 32 | 719 | 5934 | 32 |
| | U | 238 | ug/L | 0.209 | 1 | 97 | 9233 | 5 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 20:59:35

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 381146 | 1 |
| [Be | 9 | 0.007 | ug/L | 0.006 | 90 | 3 | 5 | 43 |
| C | 13 | | mg/L | | | 5654 | 7045 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2561209 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 242513 | 0 |
| [V | 51 | 0.688 | ug/L | 0.013 | 1 | 2402 | 9641 | 1 |
| [V-1 | 51 | 1.419 | ug/L | 0.096 | 6 | 8286 | 23175 | 4 |
| [Cr | 52 | 0.285 | ug/L | 0.031 | 10 | 7360 | 9465 | 3 |
| [Cr | 53 | 2.615 | ug/L | 0.321 | 12 | 2713 | 5397 | 6 |
| [Mn | 55 | 452.182 | ug/L | 3.798 | 0 | 1178 | 7149838 | 0 |
| [Co | 59 | 0.444 | ug/L | 0.007 | 1 | 123 | 5451 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 308205 | 1 |
| [Ni | 60 | 1.234 | ug/L | 0.021 | 1 | 109 | 3170 | 2 |
| [Ni | 62 | 1.187 | ug/L | 0.031 | 2 | 54 | 491 | 1 |
| [Cu | 63 | 7.172 | ug/L | 0.051 | 0 | 248 | 40153 | 0 |
| [Cu | 65 | 7.053 | ug/L | 0.062 | 0 | 118 | 18903 | 1 |
| [Zn | 66 | 54.762 | ug/L | 0.458 | 0 | 695 | 92950 | 1 |
| [Zn | 67 | 50.761 | ug/L | 0.702 | 1 | 255 | 14497 | 2 |
| [Zn | 68 | 55.614 | ug/L | 0.518 | 0 | 8462 | 73754 | 0 |
| [As | 75 | 3.749 | ug/L | 0.065 | 1 | 693 | 7035 | 1 |
| [As-1 | 75 | 3.568 | ug/L | 0.079 | 2 | 11505 | 16619 | 1 |
| [Se | 82 | 0.130 | ug/L | 0.054 | 41 | -5 | 19 | 51 |
| [Se | 78 | -0.473 | ug/L | 0.110 | 23 | 11713 | 10594 | 1 |
| [Mo | 98 | 2.689 | ug/L | 0.050 | 1 | 207 | 17089 | 0 |
| [Y | 89 | | ug/L | | | 309412 | 277948 | 1 |
| [Kr | 83 | | ug/L | | | 376 | 392 | 0 |
| [> In | 115 | | ug/L | | | 365357 | 329136 | 1 |
| [Ag | 107 | -0.001 | ug/L | 0.001 | 111 | 101 | 82 | 10 |
| [Cd | 111 | 0.088 | ug/L | 0.013 | 14 | 166 | 386 | 8 |
| [Cd | 114 | 0.082 | ug/L | 0.006 | 7 | 27 | 542 | 5 |
| [Sb | 121 | 0.502 | ug/L | 0.002 | 0 | 240 | 4786 | 0 |
| [Sb | 123 | 0.501 | ug/L | 0.013 | 2 | 169 | 3578 | 3 |
| [Ba | 135 | 18.384 | ug/L | 0.385 | 2 | 32 | 41993 | 2 |
| [Ba | 137 | 18.209 | ug/L | 0.244 | 1 | 65 | 71849 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 388709 | 1 |
| [Tl | 205 | 0.003 | ug/L | 0.001 | 29 | 147 | 201 | 9 |
| [Pb | 208 | 1.759 | ug/L | 0.002 | 0 | 1493 | 64820 | 1 |
| [Bi | 209 | | ug/L | | | 345109 | 317072 | 2 |
| [Th | 232 | 0.017 | ug/L | 0.002 | 13 | 719 | 1368 | 8 |
| [U | 238 | 0.011 | ug/L | 0.000 | 2 | 97 | 582 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:05:50

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 383732 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.007 | 231 | 3 | 3 | 66 |
| C | 13 | | mg/L | | | 5654 | 6797 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2528348 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 241529 | 1 |
| V | 51 | 0.366 | ug/L | 0.016 | 4 | 2402 | 6145 | 2 |
| V-1 | 51 | 0.870 | ug/L | 0.072 | 8 | 8286 | 17090 | 3 |
| Cr | 52 | 0.840 | ug/L | 0.018 | 2 | 7360 | 14602 | 2 |
| Cr | 53 | 2.412 | ug/L | 0.211 | 8 | 2713 | 5150 | 3 |
| Mn | 55 | 4.140 | ug/L | 0.074 | 1 | 1178 | 66256 | 0 |
| Co | 59 | 0.082 | ug/L | 0.002 | 2 | 123 | 1094 | 2 |
| > Ge | 72 | | ug/L | | | 333920 | 318751 | 0 |
| Ni | 60 | 0.462 | ug/L | 0.018 | 3 | 109 | 1292 | 3 |
| Ni | 62 | 0.599 | ug/L | 0.125 | 20 | 54 | 282 | 16 |
| Cu | 63 | 4.920 | ug/L | 0.107 | 2 | 248 | 28559 | 1 |
| Cu | 65 | 4.904 | ug/L | 0.051 | 1 | 118 | 13629 | 0 |
| Zn | 66 | 191.635 | ug/L | 2.548 | 1 | 695 | 334727 | 0 |
| Zn | 67 | 170.611 | ug/L | 1.195 | 0 | 255 | 49812 | 0 |
| Zn | 68 | 191.166 | ug/L | 1.653 | 0 | 8462 | 242511 | 0 |
| As | 75 | 0.259 | ug/L | 0.017 | 6 | 693 | 1119 | 2 |
| As-1 | 75 | -0.243 | ug/L | 0.082 | 33 | 11505 | 10560 | 0 |
| Se | 82 | -0.020 | ug/L | 0.092 | 469 | -5 | -9 | 198 |
| Se | 78 | -1.695 | ug/L | 0.302 | 17 | 11713 | 10376 | 0 |
| Mo | 98 | 0.505 | ug/L | 0.004 | 0 | 207 | 3480 | 1 |
| Y | 89 | | ug/L | | | 309412 | 281880 | 1 |
| Kr | 83 | | ug/L | | | 376 | 391 | 3 |
| > In | 115 | | ug/L | | | 365357 | 332303 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.001 | 41 | 101 | 107 | 5 |
| Cd | 111 | 0.298 | ug/L | 0.003 | 0 | 166 | 955 | 0 |
| Cd | 114 | 0.272 | ug/L | 0.005 | 1 | 27 | 1751 | 1 |
| Sb | 121 | 0.468 | ug/L | 0.008 | 1 | 240 | 4518 | 2 |
| Sb | 123 | 0.483 | ug/L | 0.018 | 3 | 169 | 3490 | 4 |
| Ba | 135 | 2.437 | ug/L | 0.042 | 1 | 32 | 5645 | 2 |
| Ba | 137 | 2.438 | ug/L | 0.020 | 0 | 65 | 9765 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 395925 | 1 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 16 | 147 | 164 | 1 |
| Pb | 208 | 1.207 | ug/L | 0.030 | 2 | 1493 | 45714 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 323359 | 0 |
| Th | 232 | -0.001 | ug/L | 0.001 | 123 | 719 | 637 | 3 |
| U | 238 | 0.004 | ug/L | 0.000 | 8 | 97 | 280 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:12:07

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 376991 | 1 |
| [Be | 9 | 0.002 | ug/L | 0.005 | 272 | 3 | 3 | 57 |
| C | 13 | | mg/L | | | 5654 | 6609 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2498525 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 232934 | 0 |
| V | 51 | 0.259 | ug/L | 0.019 | 7 | 2402 | 4817 | 4 |
| V-1 | 51 | 0.658 | ug/L | 0.024 | 3 | 8286 | 14263 | 2 |
| Cr | 52 | 0.259 | ug/L | 0.012 | 4 | 7360 | 8856 | 1 |
| Cr | 53 | 1.520 | ug/L | 0.035 | 2 | 2713 | 4021 | 1 |
| Mn | 55 | 2.685 | ug/L | 0.029 | 1 | 1178 | 41822 | 1 |
| Co | 59 | 0.062 | ug/L | 0.006 | 9 | 123 | 829 | 7 |
| [> Ge | 72 | | ug/L | | | 333920 | 310577 | 0 |
| Ni | 60 | 0.300 | ug/L | 0.016 | 5 | 109 | 854 | 4 |
| Ni | 62 | 0.381 | ug/L | 0.024 | 6 | 54 | 193 | 4 |
| Cu | 63 | 3.732 | ug/L | 0.042 | 1 | 248 | 21162 | 0 |
| Cu | 65 | 3.739 | ug/L | 0.091 | 2 | 118 | 10151 | 2 |
| Zn | 66 | 170.113 | ug/L | 0.495 | 0 | 695 | 289604 | 0 |
| Zn | 67 | 151.012 | ug/L | 1.789 | 1 | 255 | 42989 | 1 |
| Zn | 68 | 168.993 | ug/L | 2.175 | 1 | 8462 | 209800 | 1 |
| As | 75 | 0.210 | ug/L | 0.010 | 4 | 693 | 1005 | 1 |
| As-1 | 75 | -0.193 | ug/L | 0.046 | 23 | 11505 | 10373 | 0 |
| Se | 82 | -0.050 | ug/L | 0.060 | 119 | -5 | -14 | 78 |
| Se | 78 | -1.292 | ug/L | 0.118 | 9 | 11713 | 10297 | 0 |
| [Mo | 98 | 0.458 | ug/L | 0.006 | 1 | 207 | 3092 | 1 |
| Y | 89 | | ug/L | | | 309412 | 271284 | 0 |
| Kr | 83 | | ug/L | | | 376 | 394 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 328326 | 1 |
| Ag | 107 | -0.003 | ug/L | 0.001 | 40 | 101 | 59 | 23 |
| Cd | 111 | 0.238 | ug/L | 0.004 | 1 | 166 | 786 | 2 |
| Cd | 114 | 0.225 | ug/L | 0.012 | 5 | 27 | 1436 | 5 |
| Sb | 121 | 0.411 | ug/L | 0.015 | 3 | 240 | 3948 | 2 |
| Sb | 123 | 0.425 | ug/L | 0.017 | 3 | 169 | 3050 | 2 |
| Ba | 135 | 1.762 | ug/L | 0.011 | 0 | 32 | 4040 | 1 |
| [Ba | 137 | 1.768 | ug/L | 0.027 | 1 | 65 | 7012 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 386278 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.000 | 80 | 147 | 117 | 11 |
| Pb | 208 | 0.122 | ug/L | 0.005 | 3 | 1493 | 5716 | 2 |
| Bi | 209 | | ug/L | | | 345109 | 311526 | 1 |
| Th | 232 | -0.006 | ug/L | 0.000 | 1 | 719 | 406 | 0 |
| [U | 238 | 0.002 | ug/L | 0.000 | 3 | 97 | 192 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:18:27

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 405533 | 2 |
| [Be | 9 | 0.037 | ug/L | 0.011 | 31 | 3 | 16 | 24 |
| C | 13 | | mg/L | | | 5654 | 7536 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2477118 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 258972 | 1 |
| V | 51 | 5.866 | ug/L | 0.095 | 1 | 2402 | 69982 | 2 |
| V-1 | 51 | 6.078 | ug/L | 0.105 | 1 | 8286 | 79175 | 1 |
| Cr | 52 | 4.198 | ug/L | 0.082 | 1 | 7360 | 49242 | 2 |
| Cr | 53 | 4.939 | ug/L | 0.187 | 3 | 2713 | 8504 | 1 |
| Mn | 55 | 60.063 | ug/L | 0.530 | 0 | 1178 | 1015191 | 1 |
| Co | 59 | 1.261 | ug/L | 0.020 | 1 | 123 | 16305 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 319111 | 0 |
| Ni | 60 | 3.931 | ug/L | 0.033 | 0 | 109 | 10228 | 1 |
| Ni | 62 | 4.766 | ug/L | 0.215 | 4 | 54 | 1887 | 4 |
| Cu | 63 | 13.095 | ug/L | 0.111 | 0 | 248 | 75712 | 0 |
| Cu | 65 | 13.293 | ug/L | 0.160 | 1 | 118 | 36788 | 0 |
| Zn | 66 | 68.536 | ug/L | 0.720 | 1 | 695 | 120279 | 1 |
| Zn | 67 | 62.609 | ug/L | 0.607 | 0 | 255 | 18454 | 0 |
| Zn | 68 | 68.194 | ug/L | 0.128 | 0 | 8462 | 91813 | 0 |
| As | 75 | 1.743 | ug/L | 0.030 | 1 | 693 | 3740 | 1 |
| As-1 | 75 | 1.233 | ug/L | 0.075 | 6 | 11505 | 13142 | 0 |
| Se | 82 | -0.026 | ug/L | 0.069 | 270 | -5 | -10 | 132 |
| Se | 78 | -1.774 | ug/L | 0.207 | 11 | 11713 | 10350 | 0 |
| Mo | 98 | 7.217 | ug/L | 0.073 | 1 | 207 | 47165 | 1 |
| Y | 89 | | ug/L | | | 309412 | 300849 | 2 |
| Kr | 83 | | ug/L | | | 376 | 397 | 2 |
| > In | 115 | | ug/L | | | 365357 | 335906 | 0 |
| Ag | 107 | 0.027 | ug/L | 0.001 | 4 | 101 | 390 | 4 |
| Cd | 111 | 0.238 | ug/L | 0.044 | 18 | 166 | 805 | 15 |
| Cd | 114 | 0.204 | ug/L | 0.005 | 2 | 27 | 1339 | 2 |
| Sb | 121 | 1.083 | ug/L | 0.022 | 1 | 240 | 10280 | 1 |
| Sb | 123 | 1.082 | ug/L | 0.012 | 1 | 169 | 7707 | 1 |
| Ba | 135 | 21.156 | ug/L | 0.138 | 0 | 32 | 49311 | 0 |
| Ba | 137 | 21.174 | ug/L | 0.465 | 2 | 65 | 85263 | 2 |
| > Tb | 159 | | ug/L | | | 430587 | 396686 | 1 |
| Tl | 205 | 0.014 | ug/L | 0.002 | 11 | 147 | 499 | 7 |
| Pb | 208 | 5.842 | ug/L | 0.040 | 0 | 1493 | 216508 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 325096 | 1 |
| Th | 232 | 0.138 | ug/L | 0.004 | 2 | 719 | 6480 | 1 |
| U | 238 | 0.068 | ug/L | 0.003 | 4 | 97 | 3170 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV14 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:24:46

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 412524 | 0 |
| [Be | 9 | 0.008 | ug/L | 0.002 | 24 | 3 | 5 | 12 |
| C | 13 | | mg/L | | | 5654 | 7636 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2465844 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 247617 | 0 |
| V | 51 | 1.087 | ug/L | 0.019 | 1 | 2402 | 14246 | 1 |
| V-1 | 51 | 1.219 | ug/L | 0.040 | 3 | 8286 | 21424 | 1 |
| Cr | 52 | 0.478 | ug/L | 0.006 | 1 | 7360 | 11507 | 0 |
| Cr | 53 | 0.919 | ug/L | 0.102 | 11 | 2713 | 3595 | 2 |
| Mn | 55 | 12.022 | ug/L | 0.129 | 1 | 1178 | 195161 | 0 |
| Co | 59 | 0.113 | ug/L | 0.005 | 4 | 123 | 1503 | 3 |
| [> Ge | 72 | | ug/L | | | 333920 | 321826 | 0 |
| Ni | 60 | 0.758 | ug/L | 0.019 | 2 | 109 | 2074 | 2 |
| Ni | 62 | 0.702 | ug/L | 0.067 | 9 | 54 | 325 | 8 |
| Cu | 63 | 5.194 | ug/L | 0.058 | 1 | 248 | 30428 | 1 |
| Cu | 65 | 5.246 | ug/L | 0.010 | 0 | 118 | 14711 | 0 |
| Zn | 66 | 9.966 | ug/L | 0.147 | 1 | 695 | 18212 | 1 |
| Zn | 67 | 9.113 | ug/L | 0.052 | 0 | 255 | 2919 | 0 |
| Zn | 68 | 9.857 | ug/L | 0.134 | 1 | 8462 | 20361 | 0 |
| As | 75 | 0.887 | ug/L | 0.007 | 0 | 693 | 2248 | 0 |
| As-1 | 75 | 0.272 | ug/L | 0.075 | 27 | 11505 | 11566 | 1 |
| Se | 82 | 0.027 | ug/L | 0.027 | 100 | -5 | 0 | 3118 |
| Se | 78 | -1.818 | ug/L | 0.265 | 14 | 11713 | 10418 | 1 |
| Mo | 98 | 7.172 | ug/L | 0.126 | 1 | 207 | 47272 | 1 |
| Y | 89 | | ug/L | | | 309412 | 289576 | 0 |
| Kr | 83 | | ug/L | | | 376 | 447 | 0 |
| [> In | 115 | | ug/L | | | 365357 | 338594 | 0 |
| Ag | 107 | -0.001 | ug/L | 0.001 | 78 | 101 | 86 | 6 |
| Cd | 111 | 0.019 | ug/L | 0.013 | 65 | 166 | 208 | 16 |
| Cd | 114 | 0.036 | ug/L | 0.005 | 14 | 27 | 257 | 12 |
| Sb | 121 | 0.556 | ug/L | 0.009 | 1 | 240 | 5428 | 1 |
| Sb | 123 | 0.579 | ug/L | 0.019 | 3 | 169 | 4230 | 3 |
| Ba | 135 | 3.637 | ug/L | 0.099 | 2 | 32 | 8569 | 2 |
| Ba | 137 | 3.610 | ug/L | 0.069 | 1 | 65 | 14702 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 395612 | 1 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 81 | 147 | 113 | 16 |
| Pb | 208 | 0.193 | ug/L | 0.001 | 0 | 1493 | 8474 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 324606 | 0 |
| Th | 232 | 0.002 | ug/L | 0.001 | 41 | 719 | 743 | 3 |
| U | 238 | 0.016 | ug/L | 0.000 | 2 | 97 | 816 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:31:05

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> | Li | 6 | ug/L | | | 477870 | 397873 | 1 |
| [| Be | 9 | ug/L | 0.540 | 1 | 3 | 19270 | 0 |
| | C | 13 | mg/L | | | 5654 | 5124 | 1 |
| | Cl | 37 | mg/L | | | 2331174 | 2510570 | 0 |
| [> | Sc | 45 | ug/L | | | 262568 | 234949 | 0 |
| [| V | 51 | ug/L | 0.160 | 0 | 2402 | 518680 | 0 |
| | V-1 | 51 | ug/L | 0.205 | 0 | 8286 | 534676 | 0 |
| | Cr | 52 | ug/L | 0.178 | 0 | 7360 | 457685 | 0 |
| | Cr | 53 | ug/L | 0.947 | 1 | 2713 | 56834 | 1 |
| | Mn | 55 | ug/L | 0.662 | 1 | 1178 | 754318 | 0 |
| [| Co | 59 | ug/L | 0.978 | 1 | 123 | 583916 | 1 |
| [> | Ge | 72 | ug/L | | | 333920 | 312203 | 1 |
| [| Ni | 60 | ug/L | 0.659 | 1 | 109 | 123513 | 1 |
| | Ni | 62 | ug/L | 1.150 | 2 | 54 | 18756 | 1 |
| | Cu | 63 | ug/L | 0.524 | 1 | 248 | 284210 | 0 |
| | Cu | 65 | ug/L | 0.486 | 0 | 118 | 135933 | 0 |
| | Zn | 66 | ug/L | 0.991 | 1 | 695 | 87714 | 1 |
| | Zn | 67 | ug/L | 1.198 | 2 | 255 | 15199 | 1 |
| | Zn | 68 | ug/L | 1.112 | 2 | 8462 | 69691 | 0 |
| | As | 75 | ug/L | 0.315 | 0 | 693 | 87347 | 0 |
| | As-1 | 75 | ug/L | 0.440 | 0 | 11505 | 95736 | 0 |
| | Se | 82 | ug/L | 0.968 | 2 | -5 | 9118 | 1 |
| | Se | 78 | ug/L | 1.138 | 2 | 11713 | 32635 | 0 |
| [| Mo | 98 | ug/L | 0.282 | 0 | 207 | 307678 | 0 |
| | Y | 89 | ug/L | | | 309412 | 274779 | 2 |
| | Kr | 83 | ug/L | | | 376 | 440 | 5 |
| [> | In | 115 | ug/L | | | 365357 | 324292 | 1 |
| [| Ag | 107 | ug/L | 0.751 | 1 | 101 | 539779 | 0 |
| | Cd | 111 | ug/L | 0.387 | 0 | 166 | 131151 | 0 |
| | Cd | 114 | ug/L | 0.803 | 1 | 27 | 308220 | 2 |
| | Sb | 121 | ug/L | 1.034 | 2 | 240 | 454576 | 0 |
| | Sb | 123 | ug/L | 1.050 | 2 | 169 | 340236 | 0 |
| | Ba | 135 | ug/L | 0.844 | 1 | 32 | 111307 | 0 |
| [| Ba | 137 | ug/L | 0.940 | 1 | 65 | 193285 | 0 |
| [> | Tb | 159 | ug/L | | | 430587 | 386560 | 1 |
| [| Tl | 205 | ug/L | 0.870 | 1 | 147 | 1357457 | 0 |
| | Pb | 208 | ug/L | 0.745 | 1 | 1493 | 1849720 | 0 |
| | Bi | 209 | ug/L | | | 345109 | 307037 | 1 |
| | Th | 232 | ug/L | 0.676 | 1 | 719 | 2151894 | 0 |
| [| U | 238 | ug/L | 0.640 | 1 | 97 | 2239904 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:37:44

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 396589 | 1 |
| [Be | 9 | 0.000 | ug/L | 0.011 | 2754 | 3 | 2 | 137 |
| C | 13 | | mg/L | | | 5654 | 5108 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2552551 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 233173 | 0 |
| V | 51 | -0.010 | ug/L | 0.036 | 356 | 2402 | 2028 | 19 |
| V-1 | 51 | 0.112 | ug/L | 0.013 | 11 | 8286 | 8534 | 0 |
| Cr | 52 | -0.012 | ug/L | 0.011 | 89 | 7360 | 6429 | 1 |
| Cr | 53 | 0.374 | ug/L | 0.150 | 40 | 2713 | 2807 | 5 |
| Mn | 55 | -0.017 | ug/L | 0.002 | 8 | 1178 | 781 | 3 |
| [Co | 59 | 0.021 | ug/L | 0.001 | 5 | 123 | 353 | 4 |
| [> Ge | 72 | | ug/L | | | 333920 | 307306 | 0 |
| Ni | 60 | 0.001 | ug/L | 0.005 | 1074 | 109 | 102 | 12 |
| Ni | 62 | 0.036 | ug/L | 0.036 | 97 | 54 | 63 | 20 |
| Cu | 63 | 0.025 | ug/L | 0.002 | 9 | 248 | 367 | 3 |
| Cu | 65 | 0.023 | ug/L | 0.007 | 30 | 118 | 170 | 10 |
| Zn | 66 | 0.284 | ug/L | 0.005 | 1 | 695 | 1118 | 0 |
| Zn | 67 | 0.309 | ug/L | 0.153 | 49 | 255 | 321 | 13 |
| Zn | 68 | 0.251 | ug/L | 0.162 | 64 | 8462 | 8085 | 2 |
| As | 75 | 0.157 | ug/L | 0.007 | 4 | 693 | 905 | 1 |
| As-1 | 75 | -0.227 | ug/L | 0.040 | 17 | 11505 | 10207 | 0 |
| Se | 82 | -0.044 | ug/L | 0.114 | 255 | -5 | -13 | 159 |
| Se | 78 | -0.965 | ug/L | 0.174 | 18 | 11713 | 10338 | 0 |
| [Mo | 98 | -0.016 | ug/L | 0.003 | 18 | 207 | 89 | 21 |
| Y | 89 | | ug/L | | | 309412 | 270720 | 1 |
| Kr | 83 | | ug/L | | | 376 | 435 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 323236 | 1 |
| Ag | 107 | 0.004 | ug/L | 0.005 | 105 | 101 | 137 | 37 |
| Cd | 111 | 0.009 | ug/L | 0.002 | 19 | 166 | 170 | 2 |
| Cd | 114 | 0.002 | ug/L | 0.001 | 75 | 27 | 33 | 21 |
| Sb | 121 | 0.027 | ug/L | 0.012 | 42 | 240 | 457 | 24 |
| Sb | 123 | 0.033 | ug/L | 0.015 | 46 | 169 | 371 | 29 |
| Ba | 135 | 0.011 | ug/L | 0.004 | 33 | 32 | 53 | 15 |
| [Ba | 137 | 0.010 | ug/L | 0.003 | 24 | 65 | 98 | 9 |
| [> Tb | 159 | | ug/L | | | 430587 | 381099 | 1 |
| Tl | 205 | 0.005 | ug/L | 0.003 | 52 | 147 | 255 | 24 |
| Pb | 208 | 0.067 | ug/L | 0.004 | 5 | 1493 | 3692 | 2 |
| Bi | 209 | | ug/L | | | 345109 | 307694 | 1 |
| Th | 232 | 0.018 | ug/L | 0.006 | 34 | 719 | 1370 | 18 |
| [U | 238 | 0.002 | ug/L | 0.001 | 50 | 97 | 183 | 26 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:43:31

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 414483 | 0 |
| [Be | 9 | 0.004 | ug/L | 0.012 | 280 | 3 | 4 | 103 |
| C | 13 | | mg/L | | | 5654 | 6189 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2552420 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 245926 | 0 |
| V | 51 | -0.012 | ug/L | 0.008 | 62 | 2402 | 2118 | 4 |
| V-1 | 51 | 0.058 | ug/L | 0.023 | 39 | 8286 | 8403 | 2 |
| Cr | 52 | -0.002 | ug/L | 0.017 | 912 | 7360 | 6875 | 2 |
| Cr | 53 | 0.219 | ug/L | 0.082 | 37 | 2713 | 2787 | 3 |
| Mn | 55 | -0.027 | ug/L | 0.002 | 9 | 1178 | 672 | 6 |
| Co | 59 | 0.003 | ug/L | 0.002 | 53 | 123 | 151 | 12 |
| > Ge | 72 | | ug/L | | | 333920 | 327718 | 0 |
| Ni | 60 | -0.004 | ug/L | 0.002 | 58 | 109 | 96 | 7 |
| Ni | 62 | 0.046 | ug/L | 0.016 | 36 | 54 | 71 | 9 |
| Cu | 63 | 0.224 | ug/L | 0.003 | 1 | 248 | 1567 | 0 |
| Cu | 65 | 0.233 | ug/L | 0.009 | 4 | 118 | 775 | 2 |
| Zn | 66 | 1.136 | ug/L | 0.013 | 1 | 695 | 2719 | 0 |
| Zn | 67 | 1.046 | ug/L | 0.057 | 5 | 255 | 562 | 2 |
| Zn | 68 | 0.882 | ug/L | 0.091 | 10 | 8462 | 9416 | 0 |
| As | 75 | 0.123 | ug/L | 0.020 | 16 | 693 | 903 | 3 |
| As-1 | 75 | -0.526 | ug/L | 0.084 | 15 | 11505 | 10350 | 0 |
| Se | 82 | -0.081 | ug/L | 0.085 | 105 | -5 | -21 | 79 |
| Se | 78 | -2.119 | ug/L | 0.276 | 13 | 11713 | 10461 | 0 |
| Mo | 98 | 0.005 | ug/L | 0.004 | 67 | 207 | 240 | 10 |
| Y | 89 | | ug/L | | | 309412 | 291735 | 1 |
| Kr | 83 | | ug/L | | | 376 | 435 | 2 |
| > In | 115 | | ug/L | | | 365357 | 346056 | 1 |
| Ag | 107 | -0.000 | ug/L | 0.001 | 502 | 101 | 94 | 5 |
| Cd | 111 | 0.010 | ug/L | 0.006 | 63 | 166 | 185 | 8 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 186 | 27 | 28 | 19 |
| Sb | 121 | 0.001 | ug/L | 0.002 | 185 | 240 | 240 | 10 |
| Sb | 123 | 0.001 | ug/L | 0.003 | 393 | 169 | 166 | 13 |
| Ba | 135 | 0.019 | ug/L | 0.004 | 22 | 32 | 77 | 12 |
| Ba | 137 | 0.023 | ug/L | 0.003 | 13 | 65 | 155 | 6 |
| > Tb | 159 | | ug/L | | | 430587 | 404759 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.001 | 849 | 147 | 135 | 24 |
| Pb | 208 | 0.061 | ug/L | 0.002 | 3 | 1493 | 3685 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 325801 | 1 |
| Th | 232 | 0.011 | ug/L | 0.003 | 31 | 719 | 1142 | 13 |
| U | 238 | 0.000 | ug/L | 0.000 | 95 | 97 | 101 | 9 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:49:20

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 412375 | 0 |
| [Be | 9 | 24.427 | ug/L | 0.224 | 0 | 3 | 9337 | 1 |
| C | 13 | | mg/L | | | 5654 | 6626 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2555264 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 241677 | 0 |
| V | 51 | 24.090 | ug/L | 0.227 | 0 | 2402 | 261285 | 0 |
| V-1 | 51 | 24.381 | ug/L | 0.217 | 0 | 8286 | 273412 | 0 |
| Cr | 52 | 24.293 | ug/L | 0.210 | 0 | 7360 | 233511 | 1 |
| Cr | 53 | 25.208 | ug/L | 0.152 | 0 | 2713 | 30264 | 1 |
| Mn | 55 | 24.393 | ug/L | 0.209 | 0 | 1178 | 385382 | 0 |
| Co | 59 | 24.809 | ug/L | 0.070 | 0 | 123 | 297238 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 317549 | 1 |
| Ni | 60 | 24.908 | ug/L | 0.224 | 0 | 109 | 63936 | 0 |
| Ni | 62 | 25.124 | ug/L | 0.918 | 3 | 54 | 9680 | 2 |
| Cu | 63 | 26.102 | ug/L | 0.218 | 0 | 248 | 149935 | 0 |
| Cu | 65 | 26.531 | ug/L | 0.051 | 0 | 118 | 72957 | 1 |
| Zn | 66 | 79.869 | ug/L | 0.301 | 0 | 695 | 139373 | 1 |
| Zn | 67 | 72.953 | ug/L | 0.910 | 1 | 255 | 21357 | 0 |
| Zn | 68 | 77.448 | ug/L | 0.616 | 0 | 8462 | 102664 | 0 |
| As | 75 | 25.662 | ug/L | 0.362 | 1 | 693 | 45760 | 0 |
| As-1 | 75 | 24.722 | ug/L | 0.443 | 1 | 11505 | 53772 | 0 |
| Se | 82 | 72.248 | ug/L | 0.941 | 1 | -5 | 14155 | 0 |
| Se | 78 | 71.573 | ug/L | 1.273 | 1 | 11713 | 44984 | 0 |
| Mo | 98 | 24.377 | ug/L | 0.292 | 1 | 207 | 158055 | 0 |
| Y | 89 | | ug/L | | | 309412 | 284726 | 0 |
| Kr | 83 | | ug/L | | | 376 | 414 | 3 |
| > In | 115 | | ug/L | | | 365357 | 335089 | 0 |
| Ag | 107 | 24.401 | ug/L | 0.332 | 1 | 101 | 270463 | 0 |
| Cd | 111 | 24.125 | ug/L | 0.066 | 0 | 166 | 65873 | 0 |
| Cd | 114 | 24.007 | ug/L | 0.351 | 1 | 27 | 153912 | 1 |
| Sb | 121 | 24.539 | ug/L | 0.463 | 1 | 240 | 227693 | 1 |
| Sb | 123 | 24.746 | ug/L | 0.197 | 0 | 169 | 172397 | 0 |
| Ba | 135 | 24.281 | ug/L | 0.338 | 1 | 32 | 56451 | 1 |
| Ba | 137 | 24.313 | ug/L | 0.441 | 1 | 65 | 97646 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 397842 | 0 |
| Tl | 205 | 25.508 | ug/L | 0.306 | 1 | 147 | 687074 | 1 |
| Pb | 208 | 25.644 | ug/L | 0.229 | 0 | 1493 | 948529 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 321033 | 0 |
| Th | 232 | 25.593 | ug/L | 0.158 | 0 | 719 | 1080759 | 0 |
| U | 238 | 25.440 | ug/L | 0.350 | 1 | 97 | 1147411 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 JDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 21:55:39

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 424201 | 2 |
| [Be | 9 | 0.002 | ug/L | 0.003 | 158 | 3 | 3 | 33 |
| C | 13 | | mg/L | | | 5654 | 6664 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2541939 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 251519 | 2 |
| V | 51 | 0.006 | ug/L | 0.024 | 426 | 2402 | 2362 | 11 |
| V-1 | 51 | -0.026 | ug/L | 0.030 | 115 | 8286 | 7638 | 2 |
| Cr | 52 | 0.165 | ug/L | 0.033 | 19 | 7360 | 8648 | 4 |
| Cr | 53 | 0.058 | ug/L | 0.119 | 205 | 2713 | 2664 | 4 |
| Mn | 55 | 0.849 | ug/L | 0.012 | 1 | 1178 | 15042 | 2 |
| Co | 59 | 0.008 | ug/L | 0.001 | 15 | 123 | 219 | 9 |
| > Ge | 72 | | ug/L | | | 333920 | 331115 | 1 |
| Ni | 60 | 0.049 | ug/L | 0.008 | 16 | 109 | 240 | 10 |
| Ni | 62 | 0.087 | ug/L | 0.018 | 20 | 54 | 88 | 7 |
| Cu | 63 | 0.199 | ug/L | 0.008 | 4 | 248 | 1434 | 2 |
| Cu | 65 | 0.185 | ug/L | 0.006 | 3 | 118 | 648 | 1 |
| Zn | 66 | 1.745 | ug/L | 0.021 | 1 | 695 | 3850 | 1 |
| Zn | 67 | 1.618 | ug/L | 0.078 | 4 | 255 | 741 | 4 |
| Zn | 68 | 1.608 | ug/L | 0.114 | 7 | 8462 | 10439 | 1 |
| As | 75 | 0.066 | ug/L | 0.025 | 37 | 693 | 808 | 6 |
| As-1 | 75 | -0.210 | ug/L | 0.096 | 45 | 11505 | 11031 | 2 |
| Se | 82 | -0.041 | ug/L | 0.123 | 300 | -5 | -13 | 183 |
| Se | 78 | -0.853 | ug/L | 0.342 | 40 | 11713 | 11195 | 2 |
| Mo | 98 | -0.021 | ug/L | 0.001 | 6 | 207 | 61 | 12 |
| Y | 89 | | ug/L | | | 309412 | 300784 | 3 |
| Kr | 83 | | ug/L | | | 376 | 411 | 2 |
| > In | 115 | | ug/L | | | 365357 | 356015 | 3 |
| Ag | 107 | 0.001 | ug/L | 0.002 | 208 | 101 | 107 | 14 |
| Cd | 111 | 0.012 | ug/L | 0.007 | 59 | 166 | 199 | 13 |
| Cd | 114 | 0.003 | ug/L | 0.002 | 69 | 27 | 44 | 30 |
| Sb | 121 | 0.006 | ug/L | 0.009 | 133 | 240 | 295 | 24 |
| Sb | 123 | 0.008 | ug/L | 0.008 | 105 | 169 | 223 | 24 |
| Ba | 135 | 0.074 | ug/L | 0.008 | 10 | 32 | 214 | 10 |
| Ba | 137 | 0.073 | ug/L | 0.003 | 4 | 65 | 373 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 423559 | 1 |
| Tl | 205 | 0.002 | ug/L | 0.002 | 137 | 147 | 196 | 34 |
| Pb | 208 | 0.090 | ug/L | 0.001 | 1 | 1493 | 5026 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 339309 | 2 |
| Th | 232 | 0.026 | ug/L | 0.008 | 30 | 719 | 1892 | 18 |
| U | 238 | 0.002 | ug/L | 0.001 | 38 | 97 | 210 | 19 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 J REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:01:58

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 430952 | 0 |
| [Be | 9 | -0.005 | ug/L | 0.002 | 33 | 3 | 0 | 86 |
| C | 13 | | mg/L | | | 5654 | 6954 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2545258 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 256125 | 0 |
| V | 51 | -0.008 | ug/L | 0.010 | 122 | 2402 | 2254 | 5 |
| V-1 | 51 | -0.062 | ug/L | 0.018 | 28 | 8286 | 7363 | 2 |
| Cr | 52 | 0.157 | ug/L | 0.003 | 1 | 7360 | 8735 | 0 |
| Cr | 53 | -0.022 | ug/L | 0.069 | 315 | 2713 | 2621 | 2 |
| Mn | 55 | 0.873 | ug/L | 0.007 | 0 | 1178 | 15723 | 0 |
| Co | 59 | 0.015 | ug/L | 0.001 | 9 | 123 | 312 | 5 |
| > Ge | 72 | | ug/L | | | 333920 | 330456 | 0 |
| Ni | 60 | 0.052 | ug/L | 0.004 | 8 | 109 | 246 | 4 |
| Ni | 62 | 0.084 | ug/L | 0.006 | 7 | 54 | 87 | 2 |
| Cu | 63 | 0.204 | ug/L | 0.004 | 1 | 248 | 1461 | 1 |
| Cu | 65 | 0.199 | ug/L | 0.009 | 4 | 118 | 685 | 3 |
| Zn | 66 | 1.832 | ug/L | 0.019 | 1 | 695 | 3998 | 1 |
| Zn | 67 | 1.560 | ug/L | 0.066 | 4 | 255 | 722 | 3 |
| Zn | 68 | 1.852 | ug/L | 0.105 | 5 | 8462 | 10729 | 1 |
| As | 75 | 0.064 | ug/L | 0.049 | 76 | 693 | 803 | 10 |
| As-1 | 75 | -0.165 | ug/L | 0.032 | 19 | 11505 | 11089 | 0 |
| Se | 82 | -0.015 | ug/L | 0.140 | 926 | -5 | -8 | 334 |
| Se | 78 | -0.669 | ug/L | 0.068 | 10 | 11713 | 11262 | 0 |
| Mo | 98 | -0.021 | ug/L | 0.001 | 3 | 207 | 61 | 6 |
| Y | 89 | | ug/L | | | 309412 | 302799 | 1 |
| Kr | 83 | | ug/L | | | 376 | 408 | 2 |
| > In | 115 | | ug/L | | | 365357 | 359160 | 0 |
| Ag | 107 | -0.002 | ug/L | 0.000 | 10 | 101 | 72 | 4 |
| Cd | 111 | 0.005 | ug/L | 0.008 | 157 | 166 | 179 | 13 |
| Cd | 114 | 0.003 | ug/L | 0.001 | 48 | 27 | 45 | 20 |
| Sb | 121 | -0.012 | ug/L | 0.001 | 8 | 240 | 119 | 9 |
| Sb | 123 | -0.009 | ug/L | 0.000 | 0 | 169 | 97 | 0 |
| Ba | 135 | 0.070 | ug/L | 0.006 | 8 | 32 | 207 | 7 |
| Ba | 137 | 0.068 | ug/L | 0.004 | 5 | 65 | 357 | 5 |
| > Tb | 159 | | ug/L | | | 430587 | 423208 | 1 |
| Tl | 205 | -0.002 | ug/L | 0.000 | 25 | 147 | 92 | 13 |
| Pb | 208 | 0.097 | ug/L | 0.005 | 4 | 1493 | 5282 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 342808 | 1 |
| Th | 232 | 0.005 | ug/L | 0.001 | 29 | 719 | 909 | 7 |
| U | 238 | -0.000 | ug/L | 0.000 | 347 | 97 | 94 | 7 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 JSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:08:14

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 422494 | 2 |
| [Be | 9 | 24.486 | ug/L | 0.497 | 2 | 3 | 9588 | 2 |
| C | 13 | | mg/L | | | 5654 | 6999 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2535717 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 251250 | 1 |
| V | 51 | 24.472 | ug/L | 0.150 | 0 | 2402 | 275903 | 1 |
| V-1 | 51 | 24.541 | ug/L | 0.197 | 0 | 8286 | 286047 | 0 |
| Cr | 52 | 24.653 | ug/L | 0.328 | 1 | 7360 | 246218 | 1 |
| Cr | 53 | 24.866 | ug/L | 0.465 | 1 | 2713 | 31066 | 1 |
| Mn | 55 | 25.921 | ug/L | 0.589 | 2 | 1178 | 425610 | 1 |
| Co | 59 | 25.337 | ug/L | 0.333 | 1 | 123 | 315548 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 328276 | 1 |
| Ni | 60 | 25.197 | ug/L | 0.164 | 0 | 109 | 66860 | 0 |
| Ni | 62 | 25.696 | ug/L | 0.175 | 0 | 54 | 10236 | 0 |
| Cu | 63 | 26.953 | ug/L | 0.323 | 1 | 248 | 160037 | 0 |
| Cu | 65 | 26.770 | ug/L | 0.309 | 1 | 118 | 76096 | 0 |
| Zn | 66 | 79.773 | ug/L | 0.588 | 0 | 695 | 143902 | 0 |
| Zn | 67 | 73.926 | ug/L | 1.875 | 2 | 255 | 22368 | 1 |
| Zn | 68 | 79.470 | ug/L | 0.371 | 0 | 8462 | 108692 | 1 |
| As | 75 | 25.373 | ug/L | 0.118 | 0 | 693 | 46783 | 0 |
| As-1 | 75 | 24.488 | ug/L | 0.216 | 0 | 11505 | 55171 | 0 |
| Se | 82 | 72.998 | ug/L | 0.989 | 1 | -5 | 14784 | 0 |
| Se | 78 | 72.465 | ug/L | 1.287 | 1 | 11713 | 46939 | 0 |
| Mo | 98 | 24.671 | ug/L | 0.350 | 1 | 207 | 165371 | 1 |
| Y | 89 | | ug/L | | | 309412 | 299534 | 0 |
| Kr | 83 | | ug/L | | | 376 | 407 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 352875 | 0 |
| Ag | 107 | 25.081 | ug/L | 0.194 | 0 | 101 | 292772 | 0 |
| Cd | 111 | 24.617 | ug/L | 0.335 | 1 | 166 | 70778 | 1 |
| Cd | 114 | 24.194 | ug/L | 0.434 | 1 | 27 | 163356 | 1 |
| Sb | 121 | 24.302 | ug/L | 0.092 | 0 | 240 | 237477 | 0 |
| Sb | 123 | 24.611 | ug/L | 0.137 | 0 | 169 | 180564 | 0 |
| Ba | 135 | 24.621 | ug/L | 0.142 | 0 | 32 | 60283 | 0 |
| Ba | 137 | 24.517 | ug/L | 0.152 | 0 | 65 | 103704 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 418602 | 0 |
| Tl | 205 | 25.959 | ug/L | 0.277 | 1 | 147 | 735680 | 0 |
| Pb | 208 | 26.272 | ug/L | 0.328 | 1 | 1493 | 1022414 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 337521 | 0 |
| Th | 232 | 26.018 | ug/L | 0.328 | 1 | 719 | 1156048 | 1 |
| U | 238 | 26.001 | ug/L | 0.150 | 0 | 97 | 1233903 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU62 K REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:14:31

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 427131 | 0 |
| [Be | 9 | -0.003 | ug/L | 0.002 | 54 | 3 | 1 | 43 |
| C | 13 | | mg/L | | | 5654 | 6864 | 3 |
| Cl | 37 | | mg/L | | | 2331174 | 2550798 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 252360 | 1 |
| V | 51 | 0.010 | ug/L | 0.003 | 30 | 2402 | 2418 | 0 |
| V-1 | 51 | -0.062 | ug/L | 0.021 | 33 | 8286 | 7253 | 2 |
| Cr | 52 | 0.136 | ug/L | 0.010 | 7 | 7360 | 8399 | 2 |
| Cr | 53 | -0.098 | ug/L | 0.049 | 49 | 2713 | 2495 | 1 |
| Mn | 55 | 2.236 | ug/L | 0.027 | 1 | 1178 | 37911 | 1 |
| [Co | 59 | 0.017 | ug/L | 0.001 | 5 | 123 | 334 | 3 |
| [> Ge | 72 | | ug/L | | | 333920 | 328595 | 1 |
| Ni | 60 | 0.034 | ug/L | 0.002 | 4 | 109 | 199 | 1 |
| Ni | 62 | 0.086 | ug/L | 0.013 | 15 | 54 | 87 | 6 |
| Cu | 63 | 6.563 | ug/L | 0.088 | 1 | 248 | 39197 | 1 |
| Cu | 65 | 6.614 | ug/L | 0.069 | 1 | 118 | 18907 | 0 |
| Zn | 66 | 2.720 | ug/L | 0.061 | 2 | 695 | 5573 | 2 |
| Zn | 67 | 2.444 | ug/L | 0.094 | 3 | 255 | 983 | 3 |
| Zn | 68 | 2.682 | ug/L | 0.152 | 5 | 8462 | 11717 | 1 |
| As | 75 | 0.064 | ug/L | 0.006 | 10 | 693 | 798 | 1 |
| As-1 | 75 | -0.186 | ug/L | 0.084 | 45 | 11505 | 10987 | 0 |
| Se | 82 | 0.006 | ug/L | 0.034 | 603 | -5 | -4 | 162 |
| Se | 78 | -0.775 | ug/L | 0.319 | 41 | 11713 | 11146 | 0 |
| [Mo | 98 | -0.024 | ug/L | 0.002 | 6 | 207 | 43 | 24 |
| Y | 89 | | ug/L | | | 309412 | 301403 | 2 |
| Kr | 83 | | ug/L | | | 376 | 396 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 359712 | 0 |
| [Ag | 107 | 0.002 | ug/L | 0.002 | 103 | 101 | 126 | 21 |
| Cd | 111 | 0.012 | ug/L | 0.004 | 29 | 166 | 199 | 5 |
| Cd | 114 | 0.003 | ug/L | 0.000 | 15 | 27 | 49 | 6 |
| Sb | 121 | 0.011 | ug/L | 0.004 | 35 | 240 | 350 | 11 |
| Sb | 123 | 0.013 | ug/L | 0.005 | 35 | 169 | 267 | 13 |
| Ba | 135 | 0.037 | ug/L | 0.001 | 3 | 32 | 125 | 2 |
| [Ba | 137 | 0.037 | ug/L | 0.002 | 5 | 65 | 224 | 4 |
| [> Tb | 159 | | ug/L | | | 430587 | 421347 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.002 | 143 | 147 | 183 | 29 |
| Pb | 208 | 0.171 | ug/L | 0.004 | 2 | 1493 | 8152 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 340987 | 0 |
| Th | 232 | 0.026 | ug/L | 0.010 | 38 | 719 | 1852 | 23 |
| [U | 238 | 0.003 | ug/L | 0.001 | 55 | 97 | 222 | 31 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU27 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:20:47

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 419356 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.005 | 154 | 3 | 4 | 45 |
| C | 13 | | mg/L | | | 5654 | 6843 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2564742 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 253180 | 0 |
| V | 51 | 0.007 | ug/L | 0.017 | 246 | 2402 | 2393 | 7 |
| V-1 | 51 | -0.072 | ug/L | 0.021 | 29 | 8286 | 7164 | 3 |
| Cr | 52 | 0.104 | ug/L | 0.016 | 15 | 7360 | 8112 | 1 |
| Cr | 53 | -0.151 | ug/L | 0.071 | 46 | 2713 | 2442 | 3 |
| Mn | 55 | 0.482 | ug/L | 0.010 | 2 | 1178 | 9098 | 1 |
| Co | 59 | 0.027 | ug/L | 0.000 | 1 | 123 | 456 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 330731 | 0 |
| Ni | 60 | 0.847 | ug/L | 0.011 | 1 | 109 | 2369 | 0 |
| Ni | 62 | 0.936 | ug/L | 0.040 | 4 | 54 | 427 | 3 |
| Cu | 63 | 0.599 | ug/L | 0.002 | 0 | 248 | 3823 | 0 |
| Cu | 65 | 0.600 | ug/L | 0.017 | 2 | 118 | 1834 | 2 |
| Zn | 66 | 1.416 | ug/L | 0.014 | 0 | 695 | 3251 | 1 |
| Zn | 67 | 1.223 | ug/L | 0.031 | 2 | 255 | 621 | 1 |
| Zn | 68 | 1.313 | ug/L | 0.110 | 8 | 8462 | 10051 | 1 |
| As | 75 | 0.103 | ug/L | 0.024 | 23 | 693 | 874 | 5 |
| As-1 | 75 | -0.222 | ug/L | 0.045 | 20 | 11505 | 10994 | 0 |
| Se | 82 | -0.079 | ug/L | 0.100 | 126 | -5 | -21 | 94 |
| Se | 78 | -1.075 | ug/L | 0.162 | 15 | 11713 | 11072 | 0 |
| Mo | 98 | -0.023 | ug/L | 0.003 | 12 | 207 | 52 | 35 |
| Y | 89 | | ug/L | | | 309412 | 299347 | 2 |
| Kr | 83 | | ug/L | | | 376 | 411 | 2 |
| > In | 115 | | ug/L | | | 365357 | 354057 | 0 |
| Ag | 107 | 0.005 | ug/L | 0.001 | 22 | 101 | 154 | 7 |
| Cd | 111 | 0.016 | ug/L | 0.009 | 57 | 166 | 206 | 12 |
| Cd | 114 | 0.002 | ug/L | 0.000 | 19 | 27 | 40 | 7 |
| Sb | 121 | -0.010 | ug/L | 0.001 | 10 | 240 | 131 | 7 |
| Sb | 123 | -0.007 | ug/L | 0.003 | 39 | 169 | 116 | 16 |
| Ba | 135 | 0.081 | ug/L | 0.005 | 6 | 32 | 230 | 5 |
| Ba | 137 | 0.078 | ug/L | 0.011 | 13 | 65 | 393 | 10 |
| > Tb | 159 | | ug/L | | | 430587 | 419222 | 1 |
| Tl | 205 | 0.001 | ug/L | 0.000 | 14 | 147 | 176 | 3 |
| Pb | 208 | 0.096 | ug/L | 0.003 | 3 | 1493 | 5182 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 339500 | 0 |
| Th | 232 | 0.005 | ug/L | 0.001 | 16 | 719 | 919 | 4 |
| U | 238 | 0.003 | ug/L | 0.001 | 27 | 97 | 221 | 16 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:27:03

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 329282 | 0 |
| [Be | 9 | -0.001 | ug/L | 0.005 | 681 | 3 | 2 | 69 |
| C | 13 | | mg/L | | | 5654 | 8382 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 12532422 | 1 |
| > Sc | 45 | | ug/L | | | 262568 | 231272 | 1 |
| V | 51 | 0.161 | ug/L | 0.099 | 61 | 2402 | 3769 | 26 |
| V-1 | 51 | 4.857 | ug/L | 0.441 | 9 | 8286 | 58004 | 9 |
| Cr | 52 | 0.770 | ug/L | 0.029 | 3 | 7360 | 13364 | 2 |
| Cr | 53 | 15.607 | ug/L | 1.669 | 10 | 2713 | 18854 | 10 |
| Mn | 55 | 162.425 | ug/L | 0.865 | 0 | 1178 | 2450006 | 1 |
| Co | 59 | 0.418 | ug/L | 0.006 | 1 | 123 | 4894 | 2 |
| > Ge | 72 | | ug/L | | | 333920 | 273399 | 0 |
| Ni | 60 | 5.918 | ug/L | 0.056 | 0 | 109 | 13149 | 1 |
| Ni | 62 | 12.295 | ug/L | 1.174 | 9 | 54 | 4104 | 10 |
| Cu | 63 | 17.187 | ug/L | 0.320 | 1 | 248 | 85079 | 2 |
| Cu | 65 | 9.753 | ug/L | 0.220 | 2 | 118 | 23154 | 3 |
| Zn | 66 | 123.096 | ug/L | 0.702 | 0 | 695 | 184640 | 1 |
| Zn | 67 | 112.886 | ug/L | 1.094 | 0 | 255 | 28342 | 1 |
| Zn | 68 | 123.789 | ug/L | 1.075 | 0 | 8462 | 137144 | 1 |
| As | 75 | 2.175 | ug/L | 0.055 | 2 | 693 | 3859 | 1 |
| As-1 | 75 | 0.891 | ug/L | 0.118 | 13 | 11505 | 10749 | 0 |
| Se | 82 | 5.758 | ug/L | 0.166 | 2 | -5 | 967 | 3 |
| Se | 78 | 2.344 | ug/L | 0.274 | 11 | 11713 | 10544 | 0 |
| Mo | 98 | 14.063 | ug/L | 0.095 | 0 | 207 | 78584 | 1 |
| Y | 89 | | ug/L | | | 309412 | 267281 | 0 |
| Kr | 83 | | ug/L | | | 376 | 482 | 1 |
| > In | 115 | | ug/L | | | 365357 | 299398 | 2 |
| Ag | 107 | 0.007 | ug/L | 0.002 | 33 | 101 | 155 | 13 |
| Cd | 111 | -0.345 | ug/L | 0.288 | 83 | 166 | -692 | 99 |
| Cd | 114 | 0.752 | ug/L | 0.008 | 1 | 27 | 4327 | 1 |
| Sb | 121 | 1.337 | ug/L | 0.021 | 1 | 240 | 11267 | 2 |
| Sb | 123 | 1.339 | ug/L | 0.015 | 1 | 169 | 8467 | 1 |
| Ba | 135 | 81.096 | ug/L | 0.963 | 1 | 32 | 168384 | 1 |
| Ba | 137 | 80.841 | ug/L | 1.389 | 1 | 65 | 289938 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 357119 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.002 | 13 | 147 | 402 | 9 |
| Pb | 208 | 0.673 | ug/L | 0.022 | 3 | 1493 | 23540 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 253867 | 0 |
| Th | 232 | 0.023 | ug/L | 0.003 | 14 | 719 | 1476 | 7 |
| U | 238 | 0.227 | ug/L | 0.005 | 2 | 97 | 9285 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:33:19

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 347377 | 3 |
| [Be | 9 | 0.011 | ug/L | 0.010 | 92 | 3 | 5 | 53 |
| C | 13 | | mg/L | | | 5654 | 9202 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 11740159 | 1 |
| > Sc | 45 | | ug/L | | | 262568 | 239815 | 2 |
| V | 51 | 0.213 | ug/L | 0.121 | 56 | 2402 | 4450 | 27 |
| V-1 | 51 | 5.278 | ug/L | 0.081 | 1 | 8286 | 64677 | 3 |
| Cr | 52 | 0.823 | ug/L | 0.027 | 3 | 7360 | 14342 | 2 |
| Cr | 53 | 16.828 | ug/L | 0.621 | 3 | 2713 | 20880 | 5 |
| Mn | 55 | 159.224 | ug/L | 1.528 | 0 | 1178 | 2490087 | 1 |
| Co | 59 | 0.342 | ug/L | 0.007 | 2 | 123 | 4180 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 286080 | 1 |
| Ni | 60 | 7.874 | ug/L | 0.167 | 2 | 109 | 18271 | 2 |
| Ni | 62 | 14.336 | ug/L | 1.085 | 7 | 54 | 5001 | 9 |
| Cu | 63 | 24.780 | ug/L | 0.184 | 0 | 248 | 128248 | 1 |
| Cu | 65 | 18.216 | ug/L | 0.225 | 1 | 118 | 45159 | 2 |
| Zn | 66 | 176.972 | ug/L | 1.305 | 0 | 695 | 277515 | 2 |
| Zn | 67 | 164.836 | ug/L | 0.834 | 0 | 255 | 43203 | 2 |
| Zn | 68 | 177.830 | ug/L | 1.135 | 0 | 8462 | 202969 | 1 |
| As | 75 | 1.921 | ug/L | 0.086 | 4 | 693 | 3635 | 4 |
| As-1 | 75 | 0.608 | ug/L | 0.062 | 10 | 11505 | 10805 | 1 |
| Se | 82 | 5.087 | ug/L | 0.146 | 2 | -5 | 893 | 4 |
| Se | 78 | 1.447 | ug/L | 0.353 | 24 | 11713 | 10650 | 0 |
| Mo | 98 | 14.965 | ug/L | 0.091 | 0 | 207 | 87486 | 1 |
| Y | 89 | | ug/L | | | 309412 | 279162 | 2 |
| Kr | 83 | | ug/L | | | 376 | 487 | 2 |
| > In | 115 | | ug/L | | | 365357 | 318729 | 1 |
| Ag | 107 | 0.004 | ug/L | 0.001 | 32 | 101 | 135 | 12 |
| Cd | 111 | 0.610 | ug/L | 0.127 | 20 | 166 | 1728 | 20 |
| Cd | 114 | 1.116 | ug/L | 0.036 | 3 | 27 | 6829 | 3 |
| Sb | 121 | 1.403 | ug/L | 0.024 | 1 | 240 | 12580 | 2 |
| Sb | 123 | 1.415 | ug/L | 0.035 | 2 | 169 | 9519 | 3 |
| Ba | 135 | 83.021 | ug/L | 1.347 | 1 | 32 | 183524 | 1 |
| Ba | 137 | 81.524 | ug/L | 1.481 | 1 | 65 | 311313 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 372826 | 1 |
| Tl | 205 | 0.016 | ug/L | 0.001 | 4 | 147 | 526 | 5 |
| Pb | 208 | 0.314 | ug/L | 0.012 | 3 | 1493 | 12167 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 265062 | 1 |
| Th | 232 | 0.008 | ug/L | 0.001 | 12 | 719 | 920 | 5 |
| U | 238 | 0.180 | ug/L | 0.003 | 1 | 97 | 7689 | 3 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UV16 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:39:35

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 349256 | 1 |
| [Be | 9 | 0.016 | ug/L | 0.007 | 47 | 3 | 7 | 33 |
| C | 13 | | mg/L | | | 5654 | 8618 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 12816126 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 240485 | 1 |
| V | 51 | 0.182 | ug/L | 0.130 | 71 | 2402 | 4153 | 34 |
| V-1 | 51 | 6.304 | ug/L | 0.144 | 2 | 8286 | 75986 | 3 |
| Cr | 52 | 0.697 | ug/L | 0.005 | 0 | 7360 | 13216 | 1 |
| Cr | 53 | 20.052 | ug/L | 0.318 | 1 | 2713 | 24465 | 2 |
| Mn | 55 | 159.581 | ug/L | 1.909 | 1 | 1178 | 2502681 | 0 |
| [Co | 59 | 0.406 | ug/L | 0.011 | 2 | 123 | 4946 | 2 |
| > Ge | 72 | | ug/L | | | 333920 | 286109 | 1 |
| Ni | 60 | 5.701 | ug/L | 0.091 | 1 | 109 | 13259 | 2 |
| Ni | 62 | 14.536 | ug/L | 1.133 | 7 | 54 | 5069 | 8 |
| Cu | 63 | 14.546 | ug/L | 0.133 | 0 | 248 | 75380 | 1 |
| Cu | 65 | 7.092 | ug/L | 0.122 | 1 | 118 | 17644 | 2 |
| Zn | 66 | 115.104 | ug/L | 1.688 | 1 | 695 | 180689 | 0 |
| Zn | 67 | 107.678 | ug/L | 1.008 | 0 | 255 | 28298 | 0 |
| Zn | 68 | 116.340 | ug/L | 1.629 | 1 | 8462 | 135309 | 1 |
| As | 75 | 2.052 | ug/L | 0.119 | 5 | 693 | 3841 | 3 |
| As-1 | 75 | 0.671 | ug/L | 0.103 | 15 | 11505 | 10905 | 0 |
| Se | 82 | 5.322 | ug/L | 0.194 | 3 | -5 | 934 | 2 |
| Se | 78 | 1.592 | ug/L | 0.212 | 13 | 11713 | 10714 | 0 |
| [Mo | 98 | 13.724 | ug/L | 0.250 | 1 | 207 | 80248 | 1 |
| Y | 89 | | ug/L | | | 309412 | 280063 | 1 |
| Kr | 83 | | ug/L | | | 376 | 513 | 0 |
| > In | 115 | | ug/L | | | 365357 | 316886 | 1 |
| Ag | 107 | -0.000 | ug/L | 0.002 | 1859 | 101 | 86 | 22 |
| Cd | 111 | -0.206 | ug/L | 0.196 | 94 | 166 | -383 | 129 |
| Cd | 114 | 0.697 | ug/L | 0.012 | 1 | 27 | 4247 | 1 |
| Sb | 121 | 1.280 | ug/L | 0.016 | 1 | 240 | 11426 | 0 |
| Sb | 123 | 1.294 | ug/L | 0.027 | 2 | 169 | 8664 | 0 |
| Ba | 135 | 77.891 | ug/L | 1.352 | 1 | 32 | 171176 | 0 |
| [Ba | 137 | 77.325 | ug/L | 0.894 | 1 | 65 | 293565 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 368456 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.001 | 4 | 147 | 417 | 2 |
| Pb | 208 | 0.121 | ug/L | 0.006 | 5 | 1493 | 5414 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 261465 | 1 |
| Th | 232 | 0.003 | ug/L | 0.000 | 9 | 719 | 727 | 0 |
| [U | 238 | 0.218 | ug/L | 0.003 | 1 | 97 | 9185 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:45:55

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|----------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [>] Li | 6 | | ug/L | | | 477870 | 340469 | 2 |
| [] Be | 9 | 50.751 | ug/L | 0.644 | 1 | 3 | 16018 | 4 |
| [] C | 13 | | mg/L | | | 5654 | 4535 | 2 |
| [] Cl | 37 | | mg/L | | | 2331174 | 2652235 | 2 |
| [>] Sc | 45 | | ug/L | | | 262568 | 239379 | 1 |
| [] V | 51 | 50.109 | ug/L | 0.151 | 0 | 2402 | 535996 | 1 |
| [] V-1 | 51 | 52.684 | ug/L | 0.330 | 0 | 8286 | 576456 | 1 |
| [] Cr | 52 | 50.872 | ug/L | 0.577 | 1 | 7360 | 476989 | 1 |
| [] Cr | 53 | 58.990 | ug/L | 0.863 | 1 | 2713 | 66838 | 2 |
| [] Mn | 55 | 49.903 | ug/L | 0.514 | 1 | 1178 | 779894 | 2 |
| [] Co | 59 | 51.861 | ug/L | 0.215 | 0 | 123 | 615303 | 0 |
| [>] Ge | 72 | | ug/L | | | 333920 | 325953 | 1 |
| [] Ni | 60 | 50.435 | ug/L | 0.221 | 0 | 109 | 132776 | 1 |
| [] Ni | 62 | 51.627 | ug/L | 0.414 | 0 | 54 | 20365 | 1 |
| [] Cu | 63 | 52.034 | ug/L | 0.440 | 0 | 248 | 306544 | 1 |
| [] Cu | 65 | 52.105 | ug/L | 0.117 | 0 | 118 | 146958 | 1 |
| [] Zn | 66 | 52.071 | ug/L | 0.927 | 1 | 695 | 93501 | 2 |
| [] Zn | 67 | 55.158 | ug/L | 1.398 | 2 | 255 | 16633 | 1 |
| [] Zn | 68 | 52.540 | ug/L | 0.918 | 1 | 8462 | 74147 | 2 |
| [] As | 75 | 50.222 | ug/L | 0.283 | 0 | 693 | 91278 | 1 |
| [] As-1 | 75 | 50.000 | ug/L | 0.504 | 1 | 11505 | 100147 | 1 |
| [] Se | 82 | 47.298 | ug/L | 0.403 | 0 | -5 | 9510 | 1 |
| [] Se | 78 | 46.637 | ug/L | 1.309 | 2 | 11713 | 34066 | 1 |
| [] Mo | 98 | 50.746 | ug/L | 0.579 | 1 | 207 | 337535 | 2 |
| [] Y | 89 | | ug/L | | | 309412 | 284331 | 1 |
| [] Kr | 83 | | ug/L | | | 376 | 424 | 1 |
| [>] In | 115 | | ug/L | | | 365357 | 366440 | 1 |
| [] Ag | 107 | 49.577 | ug/L | 1.351 | 2 | 101 | 600777 | 2 |
| [] Cd | 111 | 48.989 | ug/L | 0.819 | 1 | 166 | 146088 | 0 |
| [] Cd | 114 | 49.226 | ug/L | 0.806 | 1 | 27 | 345071 | 0 |
| [] Sb | 121 | 49.614 | ug/L | 0.842 | 1 | 240 | 503149 | 0 |
| [] Sb | 123 | 49.665 | ug/L | 0.582 | 1 | 169 | 378186 | 0 |
| [] Ba | 135 | 49.071 | ug/L | 0.509 | 1 | 32 | 124732 | 1 |
| [] Ba | 137 | 48.230 | ug/L | 0.639 | 1 | 65 | 211765 | 0 |
| [>] Tb | 159 | | ug/L | | | 430587 | 416878 | 1 |
| [] Tl | 205 | 53.015 | ug/L | 0.092 | 0 | 147 | 1496156 | 1 |
| [] Pb | 208 | 52.076 | ug/L | 0.485 | 0 | 1493 | 2016750 | 0 |
| [] Bi | 209 | | ug/L | | | 345109 | 337030 | 1 |
| [] Th | 232 | 53.393 | ug/L | 1.332 | 2 | 719 | 2361508 | 1 |
| [] U | 238 | 52.118 | ug/L | 0.740 | 1 | 97 | 2462822 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:52:34

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 290892 | 1 |
| [Be | 9 | 0.003 | ug/L | 0.011 | 323 | 3 | 2 | 98 |
| C | 13 | | mg/L | | | 5654 | 4190 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2482650 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 215945 | 1 |
| V | 51 | -0.035 | ug/L | 0.028 | 79 | 2402 | 1638 | 15 |
| V-1 | 51 | 1.597 | ug/L | 0.088 | 5 | 8286 | 22376 | 4 |
| Cr | 52 | 0.067 | ug/L | 0.012 | 18 | 7360 | 6615 | 1 |
| Cr | 53 | 5.228 | ug/L | 0.331 | 6 | 2713 | 7379 | 5 |
| Mn | 55 | -0.006 | ug/L | 0.004 | 71 | 1178 | 887 | 7 |
| Co | 59 | 0.024 | ug/L | 0.001 | 5 | 123 | 356 | 4 |
| > Ge | 72 | | ug/L | | | 333920 | 310054 | 1 |
| Ni | 60 | 0.001 | ug/L | 0.003 | 348 | 109 | 103 | 7 |
| Ni | 62 | 0.431 | ug/L | 0.029 | 6 | 54 | 211 | 5 |
| Cu | 63 | 0.091 | ug/L | 0.010 | 11 | 248 | 738 | 8 |
| Cu | 65 | 0.043 | ug/L | 0.011 | 25 | 118 | 225 | 13 |
| Zn | 66 | 0.514 | ug/L | 0.021 | 4 | 695 | 1517 | 2 |
| Zn | 67 | 1.480 | ug/L | 0.093 | 6 | 255 | 655 | 4 |
| Zn | 68 | 1.035 | ug/L | 0.117 | 11 | 8462 | 9091 | 1 |
| As | 75 | 0.087 | ug/L | 0.029 | 33 | 693 | 793 | 5 |
| As-1 | 75 | -0.138 | ug/L | 0.024 | 17 | 11505 | 10450 | 0 |
| Se | 82 | -0.109 | ug/L | 0.128 | 117 | -5 | -26 | 95 |
| Se | 78 | -0.611 | ug/L | 0.039 | 6 | 11713 | 10594 | 0 |
| Mo | 98 | -0.014 | ug/L | 0.004 | 28 | 207 | 106 | 24 |
| Y | 89 | | ug/L | | | 309412 | 269247 | 2 |
| Kr | 83 | | ug/L | | | 376 | 409 | 4 |
| > In | 115 | | ug/L | | | 365357 | 355722 | 1 |
| Ag | 107 | 0.003 | ug/L | 0.005 | 145 | 101 | 136 | 41 |
| Cd | 111 | 0.018 | ug/L | 0.005 | 26 | 166 | 214 | 7 |
| Cd | 114 | 0.001 | ug/L | 0.001 | 109 | 27 | 34 | 26 |
| Sb | 121 | 0.032 | ug/L | 0.016 | 49 | 240 | 547 | 28 |
| Sb | 123 | 0.031 | ug/L | 0.012 | 39 | 169 | 396 | 23 |
| Ba | 135 | 0.014 | ug/L | 0.005 | 37 | 32 | 66 | 18 |
| Ba | 137 | 0.008 | ug/L | 0.001 | 18 | 65 | 96 | 5 |
| > Tb | 159 | | ug/L | | | 430587 | 400993 | 1 |
| Tl | 205 | 0.004 | ug/L | 0.002 | 62 | 147 | 239 | 27 |
| Pb | 208 | 0.064 | ug/L | 0.003 | 5 | 1493 | 3786 | 3 |
| Bi | 209 | | ug/L | | | 345109 | 332914 | 0 |
| Th | 232 | 0.025 | ug/L | 0.009 | 38 | 719 | 1717 | 24 |
| U | 238 | 0.002 | ug/L | 0.001 | 55 | 97 | 189 | 29 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 MB1 SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 22:58:22

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 303736 | 0 |
| [Be | 9 | -0.000 | ug/L | 0.005 | 5149 | 3 | 2 | 69 |
| C | 13 | | mg/L | | | 5654 | 4281 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2419876 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 217385 | 0 |
| V | 51 | -0.063 | ug/L | 0.046 | 73 | 2402 | 1381 | 32 |
| V-1 | 51 | 1.193 | ug/L | 0.123 | 10 | 8286 | 18555 | 6 |
| Cr | 52 | 0.070 | ug/L | 0.017 | 23 | 7360 | 6685 | 2 |
| Cr | 53 | 4.038 | ug/L | 0.293 | 7 | 2713 | 6247 | 4 |
| Mn | 55 | -0.038 | ug/L | 0.000 | 1 | 1178 | 435 | 1 |
| Co | 59 | -0.000 | ug/L | 0.001 | 392 | 123 | 98 | 15 |
| > Ge | 72 | | ug/L | | | 333920 | 313852 | 0 |
| Ni | 60 | -0.009 | ug/L | 0.003 | 35 | 109 | 80 | 9 |
| Ni | 62 | 0.343 | ug/L | 0.013 | 3 | 54 | 180 | 3 |
| Cu | 63 | 0.065 | ug/L | 0.003 | 4 | 248 | 602 | 3 |
| Cu | 65 | 0.040 | ug/L | 0.007 | 17 | 118 | 220 | 8 |
| Zn | 66 | 0.338 | ug/L | 0.010 | 3 | 695 | 1234 | 1 |
| Zn | 67 | 1.130 | ug/L | 0.098 | 8 | 255 | 563 | 5 |
| Zn | 68 | 0.830 | ug/L | 0.093 | 11 | 8462 | 8955 | 0 |
| As | 75 | 0.074 | ug/L | 0.047 | 63 | 693 | 780 | 10 |
| As-1 | 75 | -0.282 | ug/L | 0.050 | 17 | 11505 | 10332 | 1 |
| Se | 82 | -0.034 | ug/L | 0.106 | 309 | -5 | -11 | 175 |
| Se | 78 | -1.150 | ug/L | 0.096 | 8 | 11713 | 10472 | 0 |
| Mo | 98 | -0.023 | ug/L | 0.001 | 3 | 207 | 48 | 11 |
| Y | 89 | | ug/L | | | 309412 | 274938 | 0 |
| Kr | 83 | | ug/L | | | 376 | 388 | 1 |
| > In | 115 | | ug/L | | | 365357 | 360104 | 1 |
| Ag | 107 | -0.003 | ug/L | 0.000 | 13 | 101 | 60 | 9 |
| Cd | 111 | 0.017 | ug/L | 0.004 | 20 | 166 | 213 | 5 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 324 | 27 | 28 | 22 |
| Sb | 121 | -0.002 | ug/L | 0.001 | 54 | 240 | 215 | 6 |
| Sb | 123 | 0.000 | ug/L | 0.001 | 234 | 169 | 169 | 3 |
| Ba | 135 | 0.010 | ug/L | 0.002 | 18 | 32 | 57 | 7 |
| Ba | 137 | 0.012 | ug/L | 0.004 | 36 | 65 | 114 | 15 |
| > Tb | 159 | | ug/L | | | 430587 | 413689 | 0 |
| Tl | 205 | -0.000 | ug/L | 0.000 | 22 | 147 | 128 | 2 |
| Pb | 208 | 0.060 | ug/L | 0.001 | 1 | 1493 | 3727 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 347531 | 2 |
| Th | 232 | 0.003 | ug/L | 0.002 | 64 | 719 | 841 | 11 |
| U | 238 | -0.000 | ug/L | 0.000 | 603 | 97 | 90 | 24 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 MB1SPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:04:11

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 302630 | 1 |
| [Be | 9 | 25.209 | ug/L | 0.090 | 0 | 3 | 7071 | 1 |
| C | 13 | | mg/L | | | 5654 | 4071 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2380341 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 217800 | 0 |
| V | 51 | 25.321 | ug/L | 0.348 | 1 | 2402 | 247416 | 1 |
| V-1 | 51 | 26.597 | ug/L | 0.260 | 0 | 8286 | 268174 | 1 |
| Cr | 52 | 26.110 | ug/L | 0.365 | 1 | 7360 | 225717 | 1 |
| Cr | 53 | 30.115 | ug/L | 0.268 | 0 | 2713 | 32144 | 0 |
| Mn | 55 | 25.757 | ug/L | 0.068 | 0 | 1178 | 366688 | 0 |
| Co | 59 | 27.069 | ug/L | 0.045 | 0 | 123 | 292265 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 312721 | 0 |
| Ni | 60 | 25.365 | ug/L | 0.128 | 0 | 109 | 64120 | 0 |
| Ni | 62 | 26.094 | ug/L | 0.181 | 0 | 54 | 9901 | 0 |
| Cu | 63 | 27.312 | ug/L | 0.276 | 1 | 248 | 154494 | 1 |
| Cu | 65 | 27.404 | ug/L | 0.358 | 1 | 118 | 74206 | 1 |
| Zn | 66 | 81.116 | ug/L | 0.292 | 0 | 695 | 139389 | 0 |
| Zn | 67 | 77.364 | ug/L | 0.440 | 0 | 255 | 22291 | 0 |
| Zn | 68 | 82.702 | ug/L | 0.730 | 0 | 8462 | 107430 | 0 |
| As | 75 | 25.501 | ug/L | 0.223 | 0 | 693 | 44789 | 0 |
| As-1 | 75 | 24.933 | ug/L | 0.080 | 0 | 11505 | 53319 | 0 |
| Se | 82 | 74.020 | ug/L | 0.831 | 1 | -5 | 14283 | 1 |
| Se | 78 | 74.674 | ug/L | 0.723 | 0 | 11713 | 45748 | 0 |
| Mo | 98 | 25.785 | ug/L | 0.193 | 0 | 207 | 164641 | 0 |
| Y | 89 | | ug/L | | | 309412 | 273339 | 0 |
| Kr | 83 | | ug/L | | | 376 | 384 | 2 |
| > In | 115 | | ug/L | | | 365357 | 367979 | 1 |
| Ag | 107 | 24.962 | ug/L | 0.366 | 1 | 101 | 303830 | 0 |
| Cd | 111 | 24.063 | ug/L | 0.325 | 1 | 166 | 72146 | 0 |
| Cd | 114 | 24.059 | ug/L | 0.447 | 1 | 27 | 169367 | 0 |
| Sb | 121 | 24.782 | ug/L | 0.277 | 1 | 240 | 252507 | 0 |
| Sb | 123 | 24.752 | ug/L | 0.550 | 2 | 169 | 189339 | 1 |
| Ba | 135 | 24.259 | ug/L | 0.413 | 1 | 32 | 61929 | 0 |
| [Ba | 137 | 24.484 | ug/L | 0.212 | 0 | 65 | 107990 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 423606 | 0 |
| Tl | 205 | 26.564 | ug/L | 0.195 | 0 | 147 | 761839 | 0 |
| Pb | 208 | 26.615 | ug/L | 0.049 | 0 | 1493 | 1048141 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 352637 | 0 |
| Th | 232 | 25.857 | ug/L | 0.221 | 0 | 719 | 1162587 | 0 |
| U | 238 | 25.570 | ug/L | 0.257 | 1 | 97 | 1227910 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 CDUP SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:10:30

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 321915 | 1 |
| [Be | 9 | 0.030 | ug/L | 0.005 | 15 | 3 | 11 | 11 |
| C | 13 | | mg/L | | | 5654 | 7241 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2411298 | 1 |
| [> Sc | 45 | | ug/L | | | 262568 | 230646 | 1 |
| V | 51 | 4.410 | ug/L | 0.156 | 3 | 2402 | 47367 | 3 |
| V-1 | 51 | 5.235 | ug/L | 0.091 | 1 | 8286 | 61739 | 0 |
| Cr | 52 | 4.546 | ug/L | 0.134 | 2 | 7360 | 46947 | 1 |
| Cr | 53 | 7.153 | ug/L | 0.330 | 4 | 2713 | 9901 | 3 |
| Mn | 55 | 32.943 | ug/L | 0.588 | 1 | 1178 | 496293 | 0 |
| Co | 59 | 1.062 | ug/L | 0.027 | 2 | 123 | 12241 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 323226 | 0 |
| Ni | 60 | 4.807 | ug/L | 0.064 | 1 | 109 | 12645 | 1 |
| Ni | 62 | 6.256 | ug/L | 0.045 | 0 | 54 | 2493 | 1 |
| Cu | 63 | 14.320 | ug/L | 0.128 | 0 | 248 | 83835 | 1 |
| Cu | 65 | 14.419 | ug/L | 0.030 | 0 | 118 | 40412 | 0 |
| Zn | 66 | 34.755 | ug/L | 0.244 | 0 | 695 | 62112 | 0 |
| Zn | 67 | 32.954 | ug/L | 0.144 | 0 | 255 | 9956 | 0 |
| Zn | 68 | 35.049 | ug/L | 0.495 | 1 | 8462 | 51775 | 0 |
| As | 75 | 2.936 | ug/L | 0.048 | 1 | 693 | 5923 | 0 |
| As-1 | 75 | 2.465 | ug/L | 0.119 | 4 | 11505 | 15484 | 0 |
| Se | 82 | 0.158 | ug/L | 0.023 | 14 | -5 | 26 | 16 |
| Se | 78 | -1.603 | ug/L | 0.305 | 19 | 11713 | 10566 | 0 |
| Mo | 98 | 0.915 | ug/L | 0.023 | 2 | 207 | 6235 | 1 |
| Y | 89 | | ug/L | | | 309412 | 299074 | 0 |
| Kr | 83 | | ug/L | | | 376 | 384 | 0 |
| [> In | 115 | | ug/L | | | 365357 | 370811 | 0 |
| Ag | 107 | 0.069 | ug/L | 0.004 | 5 | 101 | 952 | 4 |
| Cd | 111 | 0.319 | ug/L | 0.014 | 4 | 166 | 1130 | 3 |
| Cd | 114 | 0.271 | ug/L | 0.003 | 1 | 27 | 1951 | 0 |
| Sb | 121 | 0.029 | ug/L | 0.010 | 35 | 240 | 542 | 19 |
| Sb | 123 | 0.030 | ug/L | 0.014 | 45 | 169 | 402 | 25 |
| Ba | 135 | 4.572 | ug/L | 0.092 | 2 | 32 | 11790 | 2 |
| Ba | 137 | 4.523 | ug/L | 0.018 | 0 | 65 | 20157 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 431785 | 0 |
| Tl | 205 | 0.023 | ug/L | 0.001 | 6 | 147 | 830 | 6 |
| Pb | 208 | 15.917 | ug/L | 0.202 | 1 | 1493 | 639534 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 356790 | 1 |
| Th | 232 | 0.189 | ug/L | 0.004 | 2 | 719 | 9383 | 2 |
| U | 238 | 0.444 | ug/L | 0.003 | 0 | 97 | 21834 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:16:49

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 333321 | 0 |
| [Be | 9 | 0.021 | ug/L | 0.008 | 39 | 3 | 8 | 28 |
| C | 13 | | mg/L | | | 5654 | 7242 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2429719 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 230004 | 0 |
| V | 51 | 4.443 | ug/L | 0.067 | 1 | 2402 | 47581 | 0 |
| V-1 | 51 | 5.233 | ug/L | 0.055 | 1 | 8286 | 61552 | 0 |
| Cr | 52 | 4.669 | ug/L | 0.092 | 1 | 7360 | 47911 | 1 |
| Cr | 53 | 7.159 | ug/L | 0.103 | 1 | 2713 | 9881 | 1 |
| Mn | 55 | 33.146 | ug/L | 0.756 | 2 | 1178 | 497976 | 1 |
| [Co | 59 | 1.097 | ug/L | 0.026 | 2 | 123 | 12608 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 326958 | 0 |
| Ni | 60 | 4.685 | ug/L | 0.150 | 3 | 109 | 12468 | 2 |
| Ni | 62 | 5.931 | ug/L | 0.084 | 1 | 54 | 2393 | 1 |
| Cu | 63 | 15.027 | ug/L | 0.103 | 0 | 248 | 88980 | 0 |
| Cu | 65 | 15.137 | ug/L | 0.093 | 0 | 118 | 42908 | 0 |
| Zn | 66 | 34.970 | ug/L | 0.456 | 1 | 695 | 63212 | 0 |
| Zn | 67 | 32.672 | ug/L | 0.428 | 1 | 255 | 9987 | 1 |
| Zn | 68 | 35.044 | ug/L | 0.242 | 0 | 8462 | 52369 | 0 |
| As | 75 | 2.919 | ug/L | 0.028 | 0 | 693 | 5960 | 0 |
| As-1 | 75 | 2.331 | ug/L | 0.052 | 2 | 11505 | 15424 | 0 |
| Se | 82 | 0.142 | ug/L | 0.176 | 123 | -5 | 23 | 152 |
| Se | 78 | -2.030 | ug/L | 0.176 | 8 | 11713 | 10481 | 1 |
| [Mo | 98 | 0.903 | ug/L | 0.025 | 2 | 207 | 6224 | 2 |
| Y | 89 | | ug/L | | | 309412 | 297544 | 0 |
| Kr | 83 | | ug/L | | | 376 | 391 | 6 |
| [> In | 115 | ✓ | ug/L | | | 365357 | 371599 | 1 |
| Ag | 107 | 0.061 | ug/L | 0.003 | 5 | 101 | 850 | 5 |
| Cd | 111 | 0.313 | ug/L | 0.008 | 2 | 166 | 1115 | 1 |
| Cd | 114 | 0.274 | ug/L | 0.006 | 2 | 27 | 1977 | 3 |
| Sb | 121 | 0.008 | ug/L | 0.003 | 36 | 240 | 330 | 8 |
| Sb | 123 | 0.011 | ug/L | 0.005 | 41 | 169 | 258 | 14 |
| Ba | 135 | 4.557 | ug/L | 0.026 | 0 | 32 | 11776 | 1 |
| [Ba | 137 | 4.491 | ug/L | 0.114 | 2 | 65 | 20055 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 427237 | 0 |
| Tl | 205 | 0.020 | ug/L | 0.001 | 6 | 147 | 735 | 5 |
| Pb | 208 | 16.897 | ug/L | 0.057 | 0 | 1493 | 671672 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 354307 | 0 |
| Th | 232 | 0.170 | ug/L | 0.002 | 1 | 719 | 8420 | 1 |
| [U | 238 | 0.442 | ug/L | 0.003 | 0 | 97 | 21498 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 CSPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:23:08

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 323538 | 0 |
| [Be | 9 | 24.798 | ug/L | 0.191 | 0 | 3 | 7437 | 1 |
| C | 13 | | mg/L | | | 5654 | 6381 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2419277 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 223805 | 0 |
| V | 51 | 29.050 | ug/L | 0.243 | 0 | 2402 | 291382 | 1 |
| V-1 | 51 | 30.036 | ug/L | 0.090 | 0 | 8286 | 310292 | 0 |
| Cr | 52 | 29.778 | ug/L | 0.408 | 1 | 7360 | 263626 | 0 |
| Cr | 53 | 32.867 | ug/L | 0.877 | 2 | 2713 | 35837 | 2 |
| Mn | 55 | 58.065 | ug/L | 0.727 | 1 | 1178 | 848151 | 0 |
| Co | 59 | 27.537 | ug/L | 0.173 | 0 | 123 | 305508 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 318087 | 0 |
| Ni | 60 | 29.587 | ug/L | 0.124 | 0 | 109 | 76058 | 0 |
| Ni | 62 | 30.868 | ug/L | 0.539 | 1 | 54 | 11904 | 1 |
| Cu | 63 | 40.605 | ug/L | 0.350 | 0 | 248 | 233515 | 1 |
| Cu | 65 | 40.950 | ug/L | 0.614 | 1 | 118 | 112732 | 1 |
| Zn | 66 | 114.774 | ug/L | 0.695 | 0 | 695 | 200333 | 0 |
| Zn | 67 | 107.329 | ug/L | 1.756 | 1 | 255 | 31361 | 1 |
| Zn | 68 | 114.244 | ug/L | 0.731 | 0 | 8462 | 147876 | 0 |
| As | 75 | 27.956 | ug/L | 0.176 | 0 | 693 | 49879 | 0 |
| As-1 | 75 | 27.167 | ug/L | 0.089 | 0 | 11505 | 58111 | 0 |
| Se | 82 | 70.847 | ug/L | 0.392 | 0 | -5 | 13904 | 0 |
| Se | 78 | 70.447 | ug/L | 0.174 | 0 | 11713 | 44530 | 0 |
| Mo | 98 | 24.301 | ug/L | 0.221 | 0 | 207 | 157842 | 0 |
| Y | 89 | | ug/L | | | 309412 | 290700 | 1 |
| Kr | 83 | | ug/L | | | 376 | 399 | 3 |
| > In | 115 | | ug/L | | | 365357 | 356853 | 0 |
| Ag | 107 | 23.755 | ug/L | 0.184 | 0 | 101 | 280418 | 0 |
| Cd | 111 | 23.974 | ug/L | 0.260 | 1 | 166 | 69713 | 0 |
| Cd | 114 | 24.080 | ug/L | 0.584 | 2 | 27 | 164412 | 2 |
| Sb | 121 | 2.421 | ug/L | 0.004 | 0 | 240 | 24139 | 0 |
| Sb | 123 | 2.422 | ug/L | 0.024 | 0 | 169 | 18120 | 1 |
| Ba | 135 | 29.169 | ug/L | 0.340 | 1 | 32 | 72219 | 1 |
| Ba | 137 | 29.049 | ug/L | 0.238 | 0 | 65 | 124244 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 414269 | 0 |
| Tl | 205 | 25.590 | ug/L | 0.172 | 0 | 147 | 717729 | 0 |
| Pb | 208 | 42.963 | ug/L | 0.119 | 0 | 1493 | 1653808 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 341493 | 0 |
| Th | 232 | 25.233 | ug/L | 0.115 | 0 | 719 | 1109591 | 0 |
| U | 238 | 25.179 | ug/L | 0.121 | 0 | 97 | 1182551 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 CPOST SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:29:27

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 328646 | 0 |
| [Be | 9 | 24.124 | ug/L | 0.294 | 1 | 3 | 7349 | 1 |
| C | 13 | | mg/L | | | 5654 | 7437 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2444845 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 230441 | 0 |
| V | 51 | 28.353 | ug/L | 0.394 | 1 | 2402 | 292857 | 1 |
| V-1 | 51 | 28.976 | ug/L | 0.422 | 1 | 8286 | 308447 | 1 |
| Cr | 52 | 29.387 | ug/L | 0.170 | 0 | 7360 | 267970 | 0 |
| Cr | 53 | 31.313 | ug/L | 0.361 | 1 | 2713 | 35266 | 0 |
| Mn | 55 | 56.852 | ug/L | 0.154 | 0 | 1178 | 855115 | 1 |
| Co | 59 | 26.776 | ug/L | 0.316 | 1 | 123 | 305875 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 319471 | 1 |
| Ni | 60 | 29.175 | ug/L | 0.426 | 1 | 109 | 75318 | 0 |
| Ni | 62 | 30.996 | ug/L | 0.057 | 0 | 54 | 12005 | 1 |
| Cu | 63 | 41.347 | ug/L | 0.267 | 0 | 248 | 238802 | 0 |
| Cu | 65 | 41.607 | ug/L | 0.482 | 1 | 118 | 115028 | 0 |
| Zn | 66 | 112.014 | ug/L | 1.463 | 1 | 695 | 196378 | 1 |
| Zn | 67 | 105.565 | ug/L | 1.598 | 1 | 255 | 30983 | 1 |
| Zn | 68 | 113.761 | ug/L | 1.589 | 1 | 8462 | 147909 | 0 |
| As | 75 | 27.431 | ug/L | 0.094 | 0 | 693 | 49166 | 1 |
| As-1 | 75 | 26.945 | ug/L | 0.157 | 0 | 11505 | 57976 | 1 |
| Se | 82 | 71.368 | ug/L | 0.514 | 0 | -5 | 14067 | 0 |
| Se | 78 | 72.070 | ug/L | 0.700 | 0 | 11713 | 45495 | 1 |
| Mo | 98 | 26.449 | ug/L | 0.406 | 1 | 207 | 172520 | 2 |
| Y | 89 | | ug/L | | | 309412 | 295174 | 1 |
| Kr | 83 | | ug/L | | | 376 | 390 | 3 |
| > In | 115 | | ug/L | | | 365357 | 360330 | 0 |
| Ag | 107 | 23.970 | ug/L | 0.241 | 1 | 101 | 285738 | 1 |
| Cd | 111 | 23.823 | ug/L | 0.233 | 0 | 166 | 69945 | 0 |
| Cd | 114 | 23.502 | ug/L | 0.121 | 0 | 27 | 162031 | 0 |
| Sb | 121 | 25.155 | ug/L | 0.441 | 1 | 240 | 250976 | 1 |
| Sb | 123 | 25.336 | ug/L | 0.267 | 1 | 169 | 189799 | 0 |
| Ba | 135 | 28.486 | ug/L | 0.300 | 1 | 32 | 71212 | 0 |
| Ba | 137 | 28.126 | ug/L | 0.355 | 1 | 65 | 121470 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 417290 | 0 |
| Tl | 205 | 25.657 | ug/L | 0.162 | 0 | 147 | 724882 | 1 |
| Pb | 208 | 42.349 | ug/L | 0.233 | 0 | 1493 | 1641983 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 346362 | 1 |
| Th | 232 | 25.099 | ug/L | 0.418 | 1 | 719 | 1111760 | 2 |
| U | 238 | 24.821 | ug/L | 0.172 | 0 | 97 | 1174267 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:35:43

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 344837 | 0 |
| [Be | 9 | 0.055 | ug/L | 0.011 | 19 | 3 | 20 | 16 |
| C | 13 | | mg/L | | | 5654 | 7421 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2476159 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 237574 | 0 |
| V | 51 | 4.867 | ug/L | 0.115 | 2 | 2402 | 53625 | 2 |
| V-1 | 51 | 5.290 | ug/L | 0.062 | 1 | 8286 | 64189 | 1 |
| Cr | 52 | 4.218 | ug/L | 0.054 | 1 | 7360 | 45354 | 1 |
| Cr | 53 | 5.586 | ug/L | 0.182 | 3 | 2713 | 8503 | 2 |
| Mn | 55 | 31.484 | ug/L | 0.169 | 0 | 1178 | 488684 | 0 |
| Co | 59 | 1.098 | ug/L | 0.008 | 0 | 123 | 13033 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 331292 | 0 |
| Ni | 60 | 4.703 | ug/L | 0.028 | 0 | 109 | 12682 | 0 |
| Ni | 62 | 5.896 | ug/L | 0.265 | 4 | 54 | 2411 | 4 |
| Cu | 63 | 14.928 | ug/L | 0.269 | 1 | 248 | 89570 | 2 |
| Cu | 65 | 15.014 | ug/L | 0.130 | 0 | 118 | 43124 | 0 |
| Zn | 66 | 42.637 | ug/L | 0.215 | 0 | 695 | 77946 | 0 |
| Zn | 67 | 39.545 | ug/L | 0.530 | 1 | 255 | 12195 | 1 |
| Zn | 68 | 43.195 | ug/L | 0.368 | 0 | 8462 | 63452 | 0 |
| As | 75 | 3.499 | ug/L | 0.060 | 1 | 693 | 7103 | 1 |
| As-1 | 75 | 3.150 | ug/L | 0.058 | 1 | 11505 | 17110 | 0 |
| Se | 82 | 0.106 | ug/L | 0.046 | 43 | -5 | 16 | 58 |
| Se | 78 | -1.214 | ug/L | 0.148 | 12 | 11713 | 11022 | 0 |
| Mo | 98 | 1.301 | ug/L | 0.019 | 1 | 207 | 8999 | 1 |
| Y | 89 | | ug/L | | | 309412 | 305680 | 0 |
| Kr | 83 | | ug/L | | | 376 | 398 | 2 |
| > In | 115 | | ug/L | | | 365357 | 368600 | 0 |
| Ag | 107 | 0.083 | ug/L | 0.003 | 3 | 101 | 1114 | 3 |
| Cd | 111 | 0.335 | ug/L | 0.016 | 4 | 166 | 1173 | 3 |
| Cd | 114 | 0.298 | ug/L | 0.008 | 2 | 27 | 2131 | 3 |
| Sb | 121 | 0.028 | ug/L | 0.007 | 24 | 240 | 523 | 13 |
| Sb | 123 | 0.032 | ug/L | 0.008 | 24 | 169 | 418 | 14 |
| Ba | 135 | 4.228 | ug/L | 0.020 | 0 | 32 | 10841 | 1 |
| Ba | 137 | 4.226 | ug/L | 0.077 | 1 | 65 | 18722 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 426058 | 0 |
| Tl | 205 | 0.029 | ug/L | 0.001 | 3 | 147 | 972 | 4 |
| Pb | 208 | 19.711 | ug/L | 0.119 | 0 | 1493 | 781107 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 349959 | 0 |
| Th | 232 | 0.183 | ug/L | 0.003 | 1 | 719 | 8964 | 2 |
| U | 238 | 0.750 | ug/L | 0.006 | 0 | 97 | 36294 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:42:00

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 345544 | 0 |
| [Be | 9 | 0.033 | ug/L | 0.015 | 44 | 3 | 12 | 36 |
| C | 13 | | mg/L | | | 5654 | 7418 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2518957 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 241861 | 0 |
| V | 51 | 4.631 | ug/L | 0.056 | 1 | 2402 | 52059 | 1 |
| V-1 | 51 | 5.021 | ug/L | 0.047 | 0 | 8286 | 62406 | 0 |
| Cr | 52 | 4.078 | ug/L | 0.041 | 1 | 7360 | 44867 | 1 |
| Cr | 53 | 5.334 | ug/L | 0.241 | 4 | 2713 | 8378 | 2 |
| Mn | 55 | 31.462 | ug/L | 0.213 | 0 | 1178 | 497151 | 0 |
| Co | 59 | 1.045 | ug/L | 0.011 | 1 | 123 | 12639 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 332680 | 1 |
| Ni | 60 | 4.645 | ug/L | 0.065 | 1 | 109 | 12579 | 1 |
| Ni | 62 | 5.882 | ug/L | 0.144 | 2 | 54 | 2415 | 1 |
| Cu | 63 | 13.456 | ug/L | 0.197 | 1 | 248 | 81091 | 1 |
| Cu | 65 | 13.608 | ug/L | 0.388 | 2 | 118 | 39250 | 1 |
| Zn | 66 | 41.000 | ug/L | 0.311 | 0 | 695 | 75289 | 1 |
| Zn | 67 | 37.896 | ug/L | 0.580 | 1 | 255 | 11745 | 1 |
| Zn | 68 | 41.647 | ug/L | 0.912 | 2 | 8462 | 61726 | 0 |
| As | 75 | 3.540 | ug/L | 0.078 | 2 | 693 | 7207 | 1 |
| As-1 | 75 | 3.257 | ug/L | 0.148 | 4 | 11505 | 17373 | 0 |
| Se | 82 | 0.081 | ug/L | 0.047 | 57 | -5 | 11 | 85 |
| Se | 78 | -1.018 | ug/L | 0.313 | 30 | 11713 | 11164 | 0 |
| Mo | 98 | 1.322 | ug/L | 0.010 | 0 | 207 | 9175 | 2 |
| Y | 89 | | ug/L | | | 309412 | 305488 | 1 |
| Kr | 83 | | ug/L | | | 376 | 397 | 1 |
| > In | 115 | | ug/L | | | 365357 | 366893 | 1 |
| Ag | 107 | 0.087 | ug/L | 0.002 | 2 | 101 | 1152 | 3 |
| Cd | 111 | 0.369 | ug/L | 0.014 | 3 | 166 | 1267 | 2 |
| Cd | 114 | 0.281 | ug/L | 0.007 | 2 | 27 | 1999 | 1 |
| Sb | 121 | 0.023 | ug/L | 0.003 | 13 | 240 | 473 | 5 |
| Sb | 123 | 0.023 | ug/L | 0.005 | 23 | 169 | 346 | 12 |
| Ba | 135 | 4.637 | ug/L | 0.025 | 0 | 32 | 11831 | 1 |
| Ba | 137 | 4.611 | ug/L | 0.129 | 2 | 65 | 20325 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 431284 | 0 |
| Tl | 205 | 0.021 | ug/L | 0.000 | 2 | 147 | 758 | 0 |
| Pb | 208 | 18.284 | ug/L | 0.033 | 0 | 1493 | 733596 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 348541 | 0 |
| Th | 232 | 0.149 | ug/L | 0.002 | 1 | 719 | 7550 | 0 |
| U | 238 | 0.718 | ug/L | 0.012 | 1 | 97 | 35209 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:48:16

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 359199 | 0 |
| [Be | 9 | 0.023 | ug/L | 0.004 | 16 | 3 | 10 | 12 |
| C | 13 | | mg/L | | | 5654 | 7350 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2539103 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 247409 | 0 |
| V | 51 | 3.962 | ug/L | 0.059 | 1 | 2402 | 45884 | 2 |
| V-1 | 51 | 4.274 | ug/L | 0.022 | 0 | 8286 | 55508 | 0 |
| Cr | 52 | 3.717 | ug/L | 0.077 | 2 | 7360 | 42448 | 1 |
| Cr | 53 | 4.717 | ug/L | 0.201 | 4 | 2713 | 7874 | 2 |
| Mn | 55 | 23.827 | ug/L | 0.228 | 0 | 1178 | 385399 | 1 |
| Co | 59 | 0.823 | ug/L | 0.016 | 1 | 123 | 10202 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 341103 | 0 |
| Ni | 60 | 3.915 | ug/L | 0.073 | 1 | 109 | 10889 | 1 |
| Ni | 62 | 4.934 | ug/L | 0.175 | 3 | 54 | 2087 | 3 |
| Cu | 63 | 8.428 | ug/L | 0.229 | 2 | 248 | 52175 | 2 |
| Cu | 65 | 8.496 | ug/L | 0.086 | 1 | 118 | 25176 | 0 |
| Zn | 66 | 24.243 | ug/L | 0.327 | 1 | 695 | 45939 | 1 |
| Zn | 67 | 22.422 | ug/L | 0.414 | 1 | 255 | 7232 | 1 |
| Zn | 68 | 24.343 | ug/L | 0.285 | 1 | 8462 | 40590 | 0 |
| As | 75 | 2.018 | ug/L | 0.051 | 2 | 693 | 4518 | 1 |
| As-1 | 75 | 1.654 | ug/L | 0.063 | 3 | 11505 | 14831 | 0 |
| Se | 82 | 0.157 | ug/L | 0.055 | 35 | -5 | 27 | 42 |
| Se | 78 | -1.213 | ug/L | 0.117 | 9 | 11713 | 11349 | 0 |
| Mo | 98 | 0.724 | ug/L | 0.018 | 2 | 207 | 5245 | 2 |
| Y | 89 | | ug/L | | | 309412 | 309380 | 0 |
| Kr | 83 | | ug/L | | | 376 | 395 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 375052 | 1 |
| Ag | 107 | 0.042 | ug/L | 0.001 | 1 | 101 | 623 | 2 |
| Cd | 111 | 0.235 | ug/L | 0.022 | 9 | 166 | 885 | 5 |
| Cd | 114 | 0.188 | ug/L | 0.010 | 5 | 27 | 1375 | 4 |
| Sb | 121 | 0.007 | ug/L | 0.002 | 25 | 240 | 324 | 4 |
| Sb | 123 | 0.010 | ug/L | 0.003 | 27 | 169 | 255 | 7 |
| Ba | 135 | 3.542 | ug/L | 0.047 | 1 | 32 | 9246 | 1 |
| Ba | 137 | 3.552 | ug/L | 0.144 | 4 | 65 | 16020 | 2 |
| [> Tb | 159 | | ug/L | | | 430587 | 430337 | 1 |
| Tl | 205 | 0.013 | ug/L | 0.001 | 8 | 147 | 537 | 7 |
| Pb | 208 | 10.705 | ug/L | 0.060 | 0 | 1493 | 429140 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 357189 | 0 |
| Th | 232 | 0.121 | ug/L | 0.002 | 1 | 719 | 6254 | 0 |
| U | 238 | 0.425 | ug/L | 0.005 | 1 | 97 | 20814 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 23, 2012 23:54:32

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 360737 | 1 |
| [Be | 9 | 0.027 | ug/L | 0.011 | 40 | 3 | 11 | 32 |
| C | 13 | | mg/L | | | 5654 | 7540 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2547749 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 249561 | 0 |
| V | 51 | 4.135 | ug/L | 0.049 | 1 | 2402 | 48203 | 1 |
| V-1 | 51 | 4.394 | ug/L | 0.049 | 1 | 8286 | 57339 | 1 |
| Cr | 52 | 3.909 | ug/L | 0.056 | 1 | 7360 | 44668 | 1 |
| Cr | 53 | 4.739 | ug/L | 0.060 | 1 | 2713 | 7969 | 0 |
| Mn | 55 | 30.005 | ug/L | 0.287 | 0 | 1178 | 489266 | 0 |
| Co | 59 | 1.027 | ug/L | 0.009 | 0 | 123 | 12822 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 341024 | 0 |
| Ni | 60 | 4.161 | ug/L | 0.084 | 2 | 109 | 11564 | 1 |
| Ni | 62 | 5.140 | ug/L | 0.171 | 3 | 54 | 2171 | 2 |
| Cu | 63 | 10.670 | ug/L | 0.063 | 0 | 248 | 65973 | 1 |
| Cu | 65 | 10.732 | ug/L | 0.063 | 0 | 118 | 31766 | 0 |
| Zn | 66 | 27.810 | ug/L | 0.126 | 0 | 695 | 52581 | 0 |
| Zn | 67 | 25.803 | ug/L | 0.387 | 1 | 255 | 8281 | 1 |
| Zn | 68 | 28.345 | ug/L | 0.595 | 2 | 8462 | 45835 | 2 |
| As | 75 | 2.451 | ug/L | 0.012 | 0 | 693 | 5333 | 0 |
| As-1 | 75 | 2.172 | ug/L | 0.059 | 2 | 11505 | 15792 | 0 |
| Se | 82 | 0.163 | ug/L | 0.105 | 64 | -5 | 28 | 76 |
| Se | 78 | -0.876 | ug/L | 0.142 | 16 | 11713 | 11517 | 0 |
| Mo | 98 | 0.798 | ug/L | 0.014 | 1 | 207 | 5761 | 1 |
| Y | 89 | | ug/L | | | 309412 | 313295 | 1 |
| Kr | 83 | | ug/L | | | 376 | 403 | 2 |
| > In | 115 | | ug/L | | | 365357 | 374575 | 0 |
| Ag | 107 | 0.056 | ug/L | 0.002 | 3 | 101 | 803 | 3 |
| Cd | 111 | 0.264 | ug/L | 0.001 | 0 | 166 | 975 | 0 |
| Cd | 114 | 0.213 | ug/L | 0.004 | 1 | 27 | 1550 | 1 |
| Sb | 121 | -0.002 | ug/L | 0.003 | 167 | 240 | 230 | 11 |
| Sb | 123 | 0.000 | ug/L | 0.003 | 1034 | 169 | 176 | 11 |
| Ba | 135 | 4.343 | ug/L | 0.060 | 1 | 32 | 11314 | 1 |
| Ba | 137 | 4.319 | ug/L | 0.028 | 0 | 65 | 19445 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 430098 | 0 |
| Tl | 205 | 0.019 | ug/L | 0.001 | 5 | 147 | 708 | 4 |
| Pb | 208 | 11.398 | ug/L | 0.102 | 0 | 1493 | 456610 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 351837 | 0 |
| Th | 232 | 0.138 | ug/L | 0.001 | 0 | 719 | 7021 | 0 |
| U | 238 | 0.407 | ug/L | 0.001 | 0 | 97 | 19929 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **CCV7**

Sample Dil Factor:

Comments:

Sample Date/Time: **Thursday, May 24, 2012 00:00:48**

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 339179 | 0 |
| [Be | 9 | 51.346 | ug/L | 0.577 | 1 | 3 | 16141 | 1 |
| C | 13 | | mg/L | | | 5654 | 4362 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2546777 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 231763 | 0 |
| V | 51 | 50.921 | ug/L | 0.129 | 0 | 2402 | 527303 | 0 |
| V-1 | 51 | 51.612 | ug/L | 0.282 | 0 | 8286 | 546868 | 0 |
| Cr | 52 | 51.690 | ug/L | 0.312 | 0 | 7360 | 469144 | 1 |
| Cr | 53 | 53.845 | ug/L | 0.395 | 0 | 2713 | 59270 | 0 |
| Mn | 55 | 50.165 | ug/L | 0.725 | 1 | 1178 | 758930 | 0 |
| Co | 59 | 53.749 | ug/L | 0.425 | 0 | 123 | 617452 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 325558 | 0 |
| Ni | 60 | 50.336 | ug/L | 0.256 | 0 | 109 | 132357 | 0 |
| Ni | 62 | 50.872 | ug/L | 0.805 | 1 | 54 | 20047 | 1 |
| Cu | 63 | 51.894 | ug/L | 0.410 | 0 | 248 | 305388 | 1 |
| Cu | 65 | 51.542 | ug/L | 0.142 | 0 | 118 | 145199 | 0 |
| Zn | 66 | 51.986 | ug/L | 0.115 | 0 | 695 | 93243 | 0 |
| Zn | 67 | 53.605 | ug/L | 0.996 | 1 | 255 | 16157 | 2 |
| Zn | 68 | 53.325 | ug/L | 0.260 | 0 | 8462 | 75042 | 0 |
| As | 75 | 50.111 | ug/L | 0.548 | 1 | 693 | 90973 | 1 |
| As-1 | 75 | 50.367 | ug/L | 0.377 | 0 | 11505 | 100688 | 0 |
| Se | 82 | 46.324 | ug/L | 0.570 | 1 | -5 | 9303 | 1 |
| Se | 78 | 47.262 | ug/L | 0.408 | 0 | 11713 | 34334 | 0 |
| Mo | 98 | 49.928 | ug/L | 0.282 | 0 | 207 | 331706 | 1 |
| Y | 89 | | ug/L | | | 309412 | 278413 | 1 |
| Kr | 83 | | ug/L | | | 376 | 404 | 4 |
| [> In | 115 | | ug/L | | | 365357 | 356236 | 1 |
| Ag | 107 | 50.240 | ug/L | 1.051 | 2 | 101 | 591861 | 1 |
| Cd | 111 | 49.974 | ug/L | 1.106 | 2 | 166 | 144882 | 2 |
| Cd | 114 | 49.240 | ug/L | 1.126 | 2 | 27 | 335552 | 1 |
| Sb | 121 | 49.475 | ug/L | 0.796 | 1 | 240 | 487766 | 0 |
| Sb | 123 | 49.728 | ug/L | 0.477 | 0 | 169 | 368127 | 0 |
| Ba | 135 | 48.512 | ug/L | 1.038 | 2 | 32 | 119861 | 1 |
| Ba | 137 | 48.869 | ug/L | 0.361 | 0 | 65 | 208599 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 406927 | 0 |
| Tl | 205 | 52.735 | ug/L | 0.320 | 0 | 147 | 1452707 | 0 |
| Pb | 208 | 52.465 | ug/L | 0.333 | 0 | 1493 | 1983399 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 328617 | 0 |
| Th | 232 | 52.672 | ug/L | 0.246 | 0 | 719 | 2274369 | 0 |
| U | 238 | 51.790 | ug/L | 0.708 | 1 | 97 | 2389023 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:07:27

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 339995 | 0 |
| [Be | 9 | 0.004 | ug/L | 0.007 | 156 | 3 | 3 | 57 |
| C | 13 | | mg/L | | | 5654 | 4510 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2577782 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 232392 | 1 |
| V | 51 | -0.051 | ug/L | 0.009 | 17 | 2402 | 1604 | 6 |
| V-1 | 51 | 0.219 | ug/L | 0.026 | 11 | 8286 | 9637 | 4 |
| Cr | 52 | 0.045 | ug/L | 0.013 | 29 | 7360 | 6915 | 1 |
| Cr | 53 | 0.895 | ug/L | 0.047 | 5 | 2713 | 3350 | 2 |
| Mn | 55 | -0.008 | ug/L | 0.001 | 11 | 1178 | 917 | 2 |
| [Co | 59 | 0.020 | ug/L | 0.002 | 8 | 123 | 341 | 6 |
| [> Ge | 72 | | ug/L | | | 333920 | 323240 | 1 |
| Ni | 60 | -0.000 | ug/L | 0.004 | 981 | 109 | 105 | 10 |
| Ni | 62 | 0.136 | ug/L | 0.016 | 11 | 54 | 105 | 5 |
| Cu | 63 | 0.031 | ug/L | 0.003 | 9 | 248 | 419 | 5 |
| Cu | 65 | 0.026 | ug/L | 0.003 | 13 | 118 | 186 | 5 |
| Zn | 66 | 0.376 | ug/L | 0.013 | 3 | 695 | 1338 | 1 |
| Zn | 67 | 0.489 | ug/L | 0.071 | 14 | 255 | 391 | 5 |
| Zn | 68 | 1.250 | ug/L | 0.155 | 12 | 8462 | 9745 | 1 |
| As | 75 | 0.065 | ug/L | 0.014 | 22 | 693 | 788 | 4 |
| As-1 | 75 | 0.100 | ug/L | 0.051 | 51 | 11505 | 11312 | 0 |
| Se | 82 | -0.049 | ug/L | 0.121 | 244 | -5 | -14 | 160 |
| Se | 78 | 0.322 | ug/L | 0.188 | 58 | 11713 | 11493 | 0 |
| [Mo | 98 | -0.016 | ug/L | 0.005 | 33 | 207 | 99 | 35 |
| Y | 89 | | ug/L | | | 309412 | 281440 | 1 |
| Kr | 83 | | ug/L | | | 376 | 411 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 352160 | 0 |
| Ag | 107 | 0.000 | ug/L | 0.003 | 2466 | 101 | 98 | 31 |
| Cd | 111 | 0.014 | ug/L | 0.009 | 65 | 166 | 200 | 12 |
| Cd | 114 | 0.001 | ug/L | 0.001 | 109 | 27 | 32 | 20 |
| Sb | 121 | 0.028 | ug/L | 0.013 | 47 | 240 | 506 | 25 |
| Sb | 123 | 0.030 | ug/L | 0.016 | 54 | 169 | 380 | 30 |
| Ba | 135 | 0.012 | ug/L | 0.001 | 11 | 32 | 60 | 5 |
| [Ba | 137 | 0.005 | ug/L | 0.006 | 117 | 65 | 84 | 29 |
| [> Tb | 159 | | ug/L | | | 430587 | 401877 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 101 | 147 | 175 | 22 |
| Pb | 208 | 0.072 | ug/L | 0.001 | 1 | 1493 | 4097 | 1 |
| Bi | 209 | | ug/L | | | 345109 | 328576 | 1 |
| Th | 232 | 0.022 | ug/L | 0.007 | 31 | 719 | 1622 | 19 |
| [U | 238 | 0.002 | ug/L | 0.001 | 69 | 97 | 161 | 31 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU31 MB REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:13:14

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [>] Li | 6 | | ug/L | | | 477870 | 357222 | 0 |
| [Be | 9 | 0.003 | ug/L | 0.006 | 227 | 3 | 3 | 57 |
| C | 13 | | mg/L | | | 5654 | 5091 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2607449 | 0 |
| [>] Sc | 45 | | ug/L | | | 262568 | 243169 | 0 |
| V | 51 | -0.039 | ug/L | 0.035 | 90 | 2402 | 1806 | 21 |
| V-1 | 51 | 0.167 | ug/L | 0.015 | 9 | 8286 | 9502 | 1 |
| Cr | 52 | 0.073 | ug/L | 0.025 | 34 | 7360 | 7502 | 3 |
| Cr | 53 | 0.718 | ug/L | 0.111 | 15 | 2713 | 3308 | 3 |
| Mn | 55 | -0.023 | ug/L | 0.001 | 5 | 1178 | 732 | 2 |
| [Co | 59 | 0.006 | ug/L | 0.001 | 18 | 123 | 184 | 7 |
| [>] Ge | 72 | | ug/L | | | 333920 | 337240 | 0 |
| Ni | 60 | -0.010 | ug/L | 0.001 | 14 | 109 | 84 | 4 |
| Ni | 62 | 0.114 | ug/L | 0.026 | 22 | 54 | 101 | 9 |
| Cu | 63 | 0.123 | ug/L | 0.003 | 2 | 248 | 1002 | 1 |
| Cu | 65 | 0.123 | ug/L | 0.018 | 14 | 118 | 477 | 10 |
| Zn | 66 | 0.273 | ug/L | 0.015 | 5 | 695 | 1206 | 2 |
| Zn | 67 | 0.512 | ug/L | 0.063 | 12 | 255 | 415 | 4 |
| Zn | 68 | 0.924 | ug/L | 0.140 | 15 | 8462 | 9745 | 1 |
| As | 75 | 0.066 | ug/L | 0.032 | 48 | 693 | 823 | 7 |
| As-1 | 75 | -0.060 | ug/L | 0.056 | 93 | 11505 | 11509 | 0 |
| Se | 82 | -0.086 | ug/L | 0.089 | 103 | -5 | -23 | 78 |
| Se | 78 | -0.311 | ug/L | 0.198 | 63 | 11713 | 11673 | 0 |
| [Mo | 98 | -0.019 | ug/L | 0.004 | 18 | 207 | 76 | 33 |
| Y | 89 | | ug/L | | | 309412 | 292645 | 1 |
| Kr | 83 | | ug/L | | | 376 | 428 | 0 |
| [>] In | 115 | | ug/L | | | 365357 | 369099 | 0 |
| Ag | 107 | -0.004 | ug/L | 0.000 | 9 | 101 | 59 | 6 |
| Cd | 111 | 0.018 | ug/L | 0.004 | 20 | 166 | 222 | 5 |
| Cd | 114 | 0.000 | ug/L | 0.001 | 176 | 27 | 29 | 13 |
| Sb | 121 | -0.002 | ug/L | 0.003 | 216 | 240 | 227 | 16 |
| Sb | 123 | -0.002 | ug/L | 0.002 | 138 | 169 | 158 | 12 |
| Ba | 135 | 0.004 | ug/L | 0.003 | 84 | 32 | 42 | 19 |
| [Ba | 137 | -0.004 | ug/L | 0.001 | 36 | 65 | 48 | 13 |
| [>] Tb | 159 | | ug/L | | | 430587 | 415711 | 0 |
| Tl | 205 | -0.001 | ug/L | 0.001 | 185 | 147 | 126 | 22 |
| Pb | 208 | 0.059 | ug/L | 0.003 | 4 | 1493 | 3709 | 2 |
| Bi | 209 | | ug/L | | | 345109 | 338752 | 0 |
| Th | 232 | 0.012 | ug/L | 0.004 | 31 | 719 | 1232 | 13 |
| [U | 238 | 0.001 | ug/L | 0.000 | 24 | 97 | 118 | 4 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU31 MBSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:18:59

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 359248 | 0 |
| [Be | 9 | 24.621 | ug/L | 0.097 | 0 | 3 | 8199 | 0 |
| C | 13 | | mg/L | | | 5654 | 5519 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2623364 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 244835 | 1 |
| V | 51 | 24.683 | ug/L | 0.243 | 0 | 2402 | 271151 | 0 |
| V-1 | 51 | 24.945 | ug/L | 0.445 | 1 | 8286 | 283167 | 0 |
| Cr | 52 | 25.445 | ug/L | 0.194 | 0 | 7360 | 247425 | 1 |
| Cr | 53 | 26.241 | ug/L | 0.843 | 3 | 2713 | 31801 | 1 |
| Mn | 55 | 24.960 | ug/L | 0.402 | 1 | 1178 | 399419 | 0 |
| Co | 59 | 26.377 | ug/L | 0.319 | 1 | 123 | 320122 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 338108 | 0 |
| Ni | 60 | 25.487 | ug/L | 0.273 | 1 | 109 | 69658 | 1 |
| Ni | 62 | 25.941 | ug/L | 0.398 | 1 | 54 | 10643 | 1 |
| Cu | 63 | 26.658 | ug/L | 0.203 | 0 | 248 | 163043 | 0 |
| Cu | 65 | 27.224 | ug/L | 0.351 | 1 | 118 | 79704 | 1 |
| Zn | 66 | 80.560 | ug/L | 1.077 | 1 | 695 | 149676 | 1 |
| Zn | 67 | 76.023 | ug/L | 0.224 | 0 | 255 | 23688 | 0 |
| Zn | 68 | 81.115 | ug/L | 0.393 | 0 | 8462 | 114087 | 0 |
| As | 75 | 25.535 | ug/L | 0.187 | 0 | 693 | 48487 | 0 |
| As-1 | 75 | 24.863 | ug/L | 0.180 | 0 | 11505 | 57518 | 0 |
| Se | 82 | 71.956 | ug/L | 0.202 | 0 | -5 | 15011 | 0 |
| Se | 78 | 72.099 | ug/L | 0.642 | 0 | 11713 | 48165 | 0 |
| Mo | 98 | -0.022 | ug/L | 0.001 | 2 | 207 | 60 | 6 |
| Y | 89 | | ug/L | | | 309412 | 295123 | 0 |
| Kr | 83 | | ug/L | | | 376 | 410 | 2 |
| > In | 115 | | ug/L | | | 365357 | 368517 | 1 |
| Ag | 107 | 24.975 | ug/L | 0.455 | 1 | 101 | 304420 | 0 |
| Cd | 111 | 23.943 | ug/L | 0.301 | 1 | 166 | 71891 | 0 |
| Cd | 114 | 23.553 | ug/L | 0.333 | 1 | 27 | 166060 | 0 |
| Sb | 121 | -0.008 | ug/L | 0.000 | 4 | 240 | 159 | 1 |
| Sb | 123 | -0.006 | ug/L | 0.001 | 20 | 169 | 125 | 7 |
| Ba | 135 | 23.765 | ug/L | 0.060 | 0 | 32 | 60767 | 1 |
| [Ba | 137 | 23.830 | ug/L | 0.401 | 1 | 65 | 105252 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 415432 | 1 |
| Tl | 205 | 25.971 | ug/L | 0.509 | 1 | 147 | 730349 | 0 |
| Pb | 208 | 26.123 | ug/L | 0.378 | 1 | 1493 | 1008822 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 340292 | 0 |
| Th | 232 | 25.691 | ug/L | 0.413 | 1 | 719 | 1132758 | 0 |
| U | 238 | 25.322 | ug/L | 0.474 | 1 | 97 | 1192462 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU31 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:25:19

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 362652 | 2 |
| [Be | 9 | 0.007 | ug/L | 0.006 | 85 | 3 | 5 | 43 |
| C | 13 | | mg/L | | | 5654 | 6480 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2599823 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 262733 | 0 |
| V | 51 | 0.116 | ug/L | 0.012 | 10 | 2402 | 3756 | 4 |
| V-1 | 51 | 0.200 | ug/L | 0.032 | 15 | 8286 | 10665 | 3 |
| Cr | 52 | 0.178 | ug/L | 0.019 | 10 | 7360 | 9165 | 1 |
| Cr | 53 | 0.443 | ug/L | 0.072 | 16 | 2713 | 3245 | 2 |
| Mn | 55 | 665.789 | ug/L | 6.503 | 0 | 1178 | 11404049 | 0 |
| [Co | 59 | 0.872 | ug/L | 0.002 | 0 | 123 | 11473 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 329380 | 0 |
| Ni | 60 | 3.373 | ug/L | 0.154 | 4 | 109 | 9072 | 4 |
| Ni | 62 | 1.745 | ug/L | 0.037 | 2 | 54 | 747 | 2 |
| Cu | 63 | 0.941 | ug/L | 0.017 | 1 | 248 | 5846 | 1 |
| Cu | 65 | 1.019 | ug/L | 0.025 | 2 | 118 | 3019 | 2 |
| Zn | 66 | 32.030 | ug/L | 0.276 | 0 | 695 | 58386 | 0 |
| Zn | 67 | 31.304 | ug/L | 0.190 | 0 | 255 | 9650 | 0 |
| Zn | 68 | 34.144 | ug/L | 0.488 | 1 | 8462 | 51616 | 1 |
| As | 75 | 3.190 | ug/L | 0.035 | 1 | 693 | 6500 | 1 |
| As-1 | 75 | 2.910 | ug/L | 0.086 | 2 | 11505 | 16578 | 0 |
| Se | 82 | 0.253 | ug/L | 0.046 | 18 | -5 | 46 | 20 |
| Se | 78 | -0.676 | ug/L | 0.260 | 38 | 11713 | 11222 | 0 |
| [Mo | 98 | 0.090 | ug/L | 0.001 | 1 | 207 | 812 | 1 |
| Y | 89 | | ug/L | | | 309412 | 292798 | 0 |
| Kr | 83 | | ug/L | | | 376 | 419 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 355717 | 0 |
| Ag | 107 | 0.004 | ug/L | 0.003 | 71 | 101 | 141 | 22 |
| Cd | 111 | 0.078 | ug/L | 0.003 | 4 | 166 | 387 | 1 |
| Cd | 114 | 0.045 | ug/L | 0.004 | 9 | 27 | 332 | 9 |
| Sb | 121 | 0.056 | ug/L | 0.003 | 5 | 240 | 782 | 2 |
| Sb | 123 | 0.060 | ug/L | 0.005 | 8 | 169 | 612 | 6 |
| Ba | 135 | 65.427 | ug/L | 0.785 | 1 | 32 | 161426 | 0 |
| [Ba | 137 | 64.740 | ug/L | 1.102 | 1 | 65 | 275926 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 413025 | 0 |
| Tl | 205 | 0.003 | ug/L | 0.001 | 42 | 147 | 230 | 16 |
| Pb | 208 | 0.071 | ug/L | 0.004 | 6 | 1493 | 4158 | 4 |
| Bi | 209 | | ug/L | | | 345109 | 319543 | 0 |
| Th | 232 | 0.080 | ug/L | 0.023 | 29 | 719 | 4208 | 24 |
| [U | 238 | 0.066 | ug/L | 0.001 | 1 | 97 | 3191 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU31 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:31:38

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 388268 | 1 |
| [Be | 9 | -0.001 | ug/L | 0.003 | 553 | 3 | 2 | 50 |
| C | 13 | | mg/L | | | 5654 | 6596 | 3 |
| Cl | 37 | | mg/L | | | 2331174 | 2617903 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 268273 | 0 |
| V | 51 | 0.120 | ug/L | 0.016 | 13 | 2402 | 3881 | 5 |
| V-1 | 51 | 0.142 | ug/L | 0.018 | 12 | 8286 | 10181 | 1 |
| Cr | 52 | 0.135 | ug/L | 0.007 | 5 | 7360 | 8918 | 1 |
| Cr | 53 | 0.205 | ug/L | 0.101 | 49 | 2713 | 3022 | 3 |
| Mn | 55 | 656.146 | ug/L | 6.203 | 0 | 1178 | 11476234 | 0 |
| [Co | 59 | 0.841 | ug/L | 0.011 | 1 | 123 | 11311 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 330263 | 0 |
| Ni | 60 | 3.239 | ug/L | 0.014 | 0 | 109 | 8740 | 0 |
| Ni | 62 | 1.717 | ug/L | 0.081 | 4 | 54 | 738 | 4 |
| Cu | 63 | 1.095 | ug/L | 0.020 | 1 | 248 | 6774 | 1 |
| Cu | 65 | 1.202 | ug/L | 0.024 | 2 | 118 | 3550 | 1 |
| Zn | 66 | 32.088 | ug/L | 0.137 | 0 | 695 | 58648 | 0 |
| Zn | 67 | 31.124 | ug/L | 0.598 | 1 | 255 | 9622 | 1 |
| Zn | 68 | 34.001 | ug/L | 0.179 | 0 | 8462 | 51574 | 0 |
| As | 75 | 3.146 | ug/L | 0.009 | 0 | 693 | 6436 | 0 |
| As-1 | 75 | 2.858 | ug/L | 0.106 | 3 | 11505 | 16529 | 1 |
| Se | 82 | 0.146 | ug/L | 0.060 | 41 | -5 | 24 | 50 |
| Se | 78 | -0.835 | ug/L | 0.352 | 42 | 11713 | 11175 | 1 |
| [Mo | 98 | 0.096 | ug/L | 0.003 | 3 | 207 | 852 | 2 |
| Y | 89 | | ug/L | | | 309412 | 296235 | 0 |
| Kr | 83 | | ug/L | | | 376 | 416 | 4 |
| > In | 115 | | ug/L | | | 365357 | 354719 | 0 |
| [Ag | 107 | -0.000 | ug/L | 0.000 | 231 | 101 | 96 | 3 |
| Cd | 111 | 0.070 | ug/L | 0.005 | 7 | 166 | 364 | 3 |
| Cd | 114 | 0.044 | ug/L | 0.000 | 0 | 27 | 327 | 0 |
| Sb | 121 | 0.056 | ug/L | 0.003 | 5 | 240 | 785 | 2 |
| Sb | 123 | 0.065 | ug/L | 0.006 | 8 | 169 | 640 | 7 |
| Ba | 135 | 64.904 | ug/L | 1.018 | 1 | 32 | 159676 | 0 |
| [Ba | 137 | 64.994 | ug/L | 0.259 | 0 | 65 | 276239 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 409276 | 0 |
| [Tl | 205 | -0.001 | ug/L | 0.000 | 30 | 147 | 111 | 7 |
| Pb | 208 | 0.075 | ug/L | 0.002 | 2 | 1493 | 4261 | 1 |
| [Bi | 209 | | ug/L | | | 345109 | 320885 | 0 |
| Th | 232 | 0.017 | ug/L | 0.001 | 7 | 719 | 1436 | 4 |
| [U | 238 | 0.062 | ug/L | 0.001 | 0 | 97 | 2979 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU31 ASPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:37:58

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 399206 | 0 |
| [Be | 9 | 24.954 | ug/L | 0.298 | 1 | 3 | 9234 | 1 |
| C | 13 | | mg/L | | | 5654 | 6625 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2622662 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 266694 | 0 |
| V | 51 | 22.679 | ug/L | 0.051 | 0 | 2402 | 271606 | 0 |
| V-1 | 51 | 22.912 | ug/L | 0.121 | 0 | 8286 | 284043 | 0 |
| Cr | 52 | 22.527 | ug/L | 0.046 | 0 | 7360 | 239481 | 0 |
| Cr | 53 | 23.269 | ug/L | 0.244 | 1 | 2713 | 31038 | 0 |
| Mn | 55 | 692.189 | ug/L | 1.887 | 0 | 1178 | 12035592 | 0 |
| [Co | 59 | 23.370 | ug/L | 0.075 | 0 | 123 | 308990 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 329694 | 0 |
| Ni | 60 | 26.915 | ug/L | 0.467 | 1 | 109 | 71719 | 1 |
| Ni | 62 | 25.546 | ug/L | 0.635 | 2 | 54 | 10220 | 2 |
| Cu | 63 | 24.804 | ug/L | 0.469 | 1 | 248 | 147934 | 1 |
| Cu | 65 | 24.825 | ug/L | 0.377 | 1 | 118 | 70881 | 1 |
| Zn | 66 | 104.860 | ug/L | 0.736 | 0 | 695 | 189771 | 1 |
| Zn | 67 | 98.838 | ug/L | 0.201 | 0 | 255 | 29954 | 0 |
| Zn | 68 | 104.963 | ug/L | 1.056 | 1 | 8462 | 141493 | 0 |
| As | 75 | 28.672 | ug/L | 0.595 | 2 | 693 | 53002 | 1 |
| As-1 | 75 | 27.894 | ug/L | 0.614 | 2 | 11505 | 61535 | 1 |
| Se | 82 | 71.235 | ug/L | 0.935 | 1 | -5 | 14490 | 1 |
| Se | 78 | 70.825 | ug/L | 1.095 | 1 | 11713 | 46339 | 0 |
| [Mo | 98 | 0.100 | ug/L | 0.001 | 1 | 207 | 878 | 1 |
| Y | 89 | | ug/L | | | 309412 | 296884 | 0 |
| Kr | 83 | | ug/L | | | 376 | 407 | 2 |
| > In | 115 | | ug/L | | | 365357 | 352740 | 0 |
| [Ag | 107 | 23.666 | ug/L | 0.431 | 1 | 101 | 276152 | 1 |
| Cd | 111 | 23.865 | ug/L | 0.282 | 1 | 166 | 68597 | 1 |
| Cd | 114 | 23.784 | ug/L | 0.310 | 1 | 27 | 160525 | 1 |
| Sb | 121 | 0.058 | ug/L | 0.002 | 3 | 240 | 801 | 2 |
| Sb | 123 | 0.061 | ug/L | 0.004 | 7 | 169 | 611 | 5 |
| Ba | 135 | 90.324 | ug/L | 0.886 | 0 | 32 | 220984 | 0 |
| [Ba | 137 | 89.871 | ug/L | 0.489 | 0 | 65 | 379827 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 414302 | 0 |
| Tl | 205 | 24.945 | ug/L | 0.376 | 1 | 147 | 699646 | 1 |
| Pb | 208 | 24.772 | ug/L | 0.155 | 0 | 1493 | 954199 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 321783 | 0 |
| Th | 232 | 25.647 | ug/L | 0.516 | 2 | 719 | 1127720 | 1 |
| [U | 238 | 25.937 | ug/L | 0.395 | 1 | 97 | 1218136 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 F SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:44:17

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 433878 | 0 |
| [Be | 9 | 0.011 | ug/L | 0.005 | 47 | 3 | 7 | 28 |
| C | 13 | | mg/L | | | 5654 | 9610 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2741294 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 259228 | 0 |
| V | 51 | 2.783 | ug/L | 0.044 | 1 | 2402 | 34477 | 0 |
| V-1 | 51 | 2.786 | ug/L | 0.028 | 1 | 8286 | 40755 | 0 |
| Cr | 52 | 1.788 | ug/L | 0.015 | 0 | 7360 | 25168 | 0 |
| Cr | 53 | 1.839 | ug/L | 0.047 | 2 | 2713 | 4851 | 1 |
| Mn | 55 | 22.342 | ug/L | 0.167 | 0 | 1178 | 378733 | 1 |
| [Co | 59 | 0.689 | ug/L | 0.007 | 1 | 123 | 8976 | 1 |
| > Ge | 72 | | ug/L | | | 333920 | 336832 | 1 |
| Ni | 60 | 3.068 | ug/L | 0.069 | 2 | 109 | 8448 | 0 |
| Ni | 62 | 3.744 | ug/L | 0.081 | 2 | 54 | 1576 | 2 |
| Cu | 63 | 22.284 | ug/L | 0.378 | 1 | 248 | 135797 | 0 |
| Cu | 65 | 22.235 | ug/L | 0.259 | 1 | 118 | 64869 | 0 |
| Zn | 66 | 36.856 | ug/L | 0.514 | 1 | 695 | 68596 | 1 |
| Zn | 67 | 33.567 | ug/L | 0.203 | 0 | 255 | 10563 | 1 |
| Zn | 68 | 37.318 | ug/L | 0.733 | 1 | 8462 | 56892 | 1 |
| As | 75 | 4.625 | ug/L | 0.058 | 1 | 693 | 9320 | 0 |
| As-1 | 75 | 4.262 | ug/L | 0.111 | 2 | 11505 | 19436 | 0 |
| Se | 82 | 0.098 | ug/L | 0.039 | 40 | -5 | 14 | 54 |
| Se | 78 | -1.298 | ug/L | 0.250 | 19 | 11713 | 11163 | 0 |
| [Mo | 98 | 1.429 | ug/L | 0.035 | 2 | 207 | 10026 | 1 |
| Y | 89 | | ug/L | | | 309412 | 314362 | 0 |
| Kr | 83 | | ug/L | | | 376 | 412 | 4 |
| > In | 115 | | ug/L | | | 365357 | 361238 | 0 |
| Ag | 107 | 0.052 | ug/L | 0.002 | 4 | 101 | 725 | 3 |
| Cd | 111 | 0.233 | ug/L | 0.015 | 6 | 166 | 848 | 5 |
| Cd | 114 | 0.203 | ug/L | 0.006 | 2 | 27 | 1430 | 2 |
| Sb | 121 | 0.233 | ug/L | 0.003 | 1 | 240 | 2567 | 1 |
| Sb | 123 | 0.237 | ug/L | 0.003 | 1 | 169 | 1943 | 0 |
| Ba | 135 | 2.309 | ug/L | 0.053 | 2 | 32 | 5816 | 2 |
| [Ba | 137 | 2.304 | ug/L | 0.025 | 1 | 65 | 10034 | 0 |
| > Tb | 159 | | ug/L | | | 430587 | 425579 | 0 |
| Tl | 205 | 0.012 | ug/L | 0.000 | 2 | 147 | 492 | 2 |
| Pb | 208 | 19.436 | ug/L | 0.059 | 0 | 1493 | 769370 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 342910 | 0 |
| Th | 232 | 0.064 | ug/L | 0.006 | 9 | 719 | 3617 | 7 |
| [U | 238 | 0.696 | ug/L | 0.014 | 2 | 97 | 33677 | 2 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 G SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:50:36

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 435645 | 1 |
| [Be | 9 | 0.015 | ug/L | 0.003 | 21 | 3 | 9 | 15 |
| C | 13 | | mg/L | | | 5654 | 10534 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2734279 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 263547 | 1 |
| V | 51 | 4.564 | ug/L | 0.070 | 1 | 2402 | 55929 | 0 |
| V-1 | 51 | 4.518 | ug/L | 0.101 | 2 | 8286 | 62010 | 0 |
| Cr | 52 | 1.805 | ug/L | 0.008 | 0 | 7360 | 25757 | 2 |
| Cr | 53 | 1.776 | ug/L | 0.100 | 5 | 2713 | 4855 | 1 |
| Mn | 55 | 9.390 | ug/L | 0.152 | 1 | 1178 | 162488 | 0 |
| [Co | 59 | 0.396 | ug/L | 0.001 | 0 | 123 | 5291 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 339778 | 0 |
| Ni | 60 | 3.168 | ug/L | 0.041 | 1 | 109 | 8799 | 1 |
| Ni | 62 | 3.607 | ug/L | 0.272 | 7 | 54 | 1534 | 7 |
| Cu | 63 | 10.549 | ug/L | 0.054 | 0 | 248 | 64991 | 0 |
| Cu | 65 | 10.604 | ug/L | 0.041 | 0 | 118 | 31272 | 0 |
| Zn | 66 | 26.903 | ug/L | 0.307 | 1 | 695 | 50702 | 0 |
| Zn | 67 | 24.623 | ug/L | 0.105 | 0 | 255 | 7886 | 0 |
| Zn | 68 | 26.938 | ug/L | 0.136 | 0 | 8462 | 43826 | 0 |
| As | 75 | 8.094 | ug/L | 0.038 | 0 | 693 | 15928 | 0 |
| As-1 | 75 | 7.829 | ug/L | 0.047 | 0 | 11505 | 26222 | 0 |
| Se | 82 | 0.152 | ug/L | 0.087 | 57 | -5 | 26 | 69 |
| Se | 78 | -1.091 | ug/L | 0.177 | 16 | 11713 | 11367 | 0 |
| [Mo | 98 | 2.494 | ug/L | 0.050 | 1 | 207 | 17496 | 1 |
| Y | 89 | | ug/L | | | 309412 | 321544 | 0 |
| Kr | 83 | | ug/L | | | 376 | 411 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 367332 | 0 |
| Ag | 107 | 0.099 | ug/L | 0.008 | 7 | 101 | 1306 | 7 |
| Cd | 111 | 0.338 | ug/L | 0.016 | 4 | 166 | 1176 | 4 |
| Cd | 114 | 0.306 | ug/L | 0.010 | 3 | 27 | 2175 | 2 |
| Sb | 121 | 0.466 | ug/L | 0.008 | 1 | 240 | 4973 | 0 |
| Sb | 123 | 0.478 | ug/L | 0.011 | 2 | 169 | 3816 | 2 |
| Ba | 135 | 4.673 | ug/L | 0.033 | 0 | 32 | 11935 | 0 |
| [Ba | 137 | 4.678 | ug/L | 0.070 | 1 | 65 | 20650 | 0 |
| [> Tb | 159 | | ug/L | | | 430587 | 424425 | 0 |
| Tl | 205 | 0.017 | ug/L | 0.001 | 5 | 147 | 639 | 3 |
| Pb | 208 | 52.310 | ug/L | 0.566 | 1 | 1493 | 2062500 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 344476 | 0 |
| Th | 232 | 0.070 | ug/L | 0.002 | 3 | 719 | 3880 | 2 |
| [U | 238 | 0.972 | ug/L | 0.012 | 1 | 97 | 46872 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 H SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, May 24, 2012 00:56:55

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| > Li | 6 | | ug/L | | | 477870 | 441311 | 1 |
| [Be | 9 | 0.035 | ug/L | 0.003 | 7 | 3 | 17 | 7 |
| C | 13 | | mg/L | | | 5654 | 9411 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2729203 | 0 |
| > Sc | 45 | | ug/L | | | 262568 | 271710 | 0 |
| V | 51 | 6.917 | ug/L | 0.095 | 1 | 2402 | 86121 | 0 |
| V-1 | 51 | 6.876 | ug/L | 0.103 | 1 | 8286 | 92839 | 0 |
| Cr | 52 | 6.132 | ug/L | 0.100 | 1 | 7360 | 71955 | 0 |
| Cr | 53 | 6.034 | ug/L | 0.129 | 2 | 2713 | 10279 | 0 |
| Mn | 55 | 50.131 | ug/L | 0.736 | 1 | 1178 | 889118 | 0 |
| [Co | 59 | 1.369 | ug/L | 0.021 | 1 | 123 | 18565 | 0 |
| > Ge | 72 | | ug/L | | | 333920 | 348982 | 0 |
| Ni | 60 | 7.250 | ug/L | 0.044 | 0 | 109 | 20533 | 0 |
| Ni | 62 | 8.785 | ug/L | 0.272 | 3 | 54 | 3757 | 3 |
| Cu | 63 | 17.415 | ug/L | 0.223 | 1 | 248 | 110028 | 1 |
| Cu | 65 | 17.463 | ug/L | 0.090 | 0 | 118 | 52818 | 0 |
| Zn | 66 | 94.248 | ug/L | 0.071 | 0 | 695 | 180615 | 0 |
| Zn | 67 | 85.958 | ug/L | 0.872 | 1 | 255 | 27609 | 0 |
| Zn | 68 | 93.444 | ug/L | 0.455 | 0 | 8462 | 134312 | 0 |
| As | 75 | 4.708 | ug/L | 0.063 | 1 | 693 | 9817 | 1 |
| As-1 | 75 | 4.259 | ug/L | 0.118 | 2 | 11505 | 20133 | 0 |
| Se | 82 | 0.130 | ug/L | 0.019 | 14 | -5 | 22 | 18 |
| Se | 78 | -1.570 | ug/L | 0.305 | 19 | 11713 | 11425 | 0 |
| [Mo | 98 | 1.410 | ug/L | 0.022 | 1 | 207 | 10253 | 1 |
| Y | 89 | | ug/L | | | 309412 | 338603 | 1 |
| Kr | 83 | | ug/L | | | 376 | 430 | 1 |
| > In | 115 | | ug/L | | | 365357 | 367050 | 0 |
| Ag | 107 | 0.087 | ug/L | 0.004 | 4 | 101 | 1159 | 4 |
| Cd | 111 | 0.621 | ug/L | 0.023 | 3 | 166 | 2019 | 3 |
| Cd | 114 | 0.562 | ug/L | 0.003 | 0 | 27 | 3973 | 0 |
| Sb | 121 | 0.034 | ug/L | 0.003 | 7 | 240 | 589 | 4 |
| Sb | 123 | 0.033 | ug/L | 0.003 | 7 | 169 | 425 | 4 |
| Ba | 135 | 6.188 | ug/L | 0.014 | 0 | 32 | 15784 | 0 |
| [Ba | 137 | 6.211 | ug/L | 0.079 | 1 | 65 | 27377 | 1 |
| > Tb | 159 | | ug/L | | | 430587 | 429536 | 2 |
| Tl | 205 | 0.025 | ug/L | 0.001 | 3 | 147 | 874 | 1 |
| Pb | 208 | 49.207 | ug/L | 1.234 | 2 | 1493 | 1963039 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 344544 | 0 |
| Th | 232 | 0.219 | ug/L | 0.002 | 0 | 719 | 10675 | 1 |
| [U | 238 | 0.632 | ug/L | 0.016 | 2 | 97 | 30864 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 I SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, May 24, 2012 01:03:11

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 440119 | 0 |
| [Be | 9 | 0.049 | ug/L | 0.015 | 31 | 3 | 22 | 26 |
| C | 13 | | mg/L | | | 5654 | 9874 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2721081 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 266339 | 0 |
| V | 51 | 6.921 | ug/L | 0.080 | 1 | 2402 | 84473 | 1 |
| V-1 | 51 | 6.886 | ug/L | 0.056 | 0 | 8286 | 91138 | 1 |
| Cr | 52 | 5.700 | ug/L | 0.018 | 0 | 7360 | 66095 | 0 |
| Cr | 53 | 5.642 | ug/L | 0.153 | 2 | 2713 | 9600 | 1 |
| Mn | 55 | 35.690 | ug/L | 0.533 | 1 | 1178 | 620840 | 0 |
| [Co | 59 | 1.115 | ug/L | 0.012 | 1 | 123 | 14846 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 346076 | 1 |
| Ni | 60 | 5.830 | ug/L | 0.170 | 2 | 109 | 16395 | 2 |
| Ni | 62 | 7.117 | ug/L | 0.103 | 1 | 54 | 3029 | 1 |
| Cu | 63 | 15.818 | ug/L | 0.380 | 2 | 248 | 99114 | 1 |
| Cu | 65 | 16.010 | ug/L | 0.172 | 1 | 118 | 48025 | 0 |
| Zn | 66 | 48.128 | ug/L | 0.562 | 1 | 695 | 91815 | 1 |
| Zn | 67 | 44.091 | ug/L | 0.149 | 0 | 255 | 14173 | 0 |
| Zn | 68 | 47.803 | ug/L | 0.275 | 0 | 8462 | 72420 | 1 |
| As | 75 | 3.112 | ug/L | 0.025 | 0 | 693 | 6679 | 1 |
| As-1 | 75 | 2.748 | ug/L | 0.070 | 2 | 11505 | 17112 | 0 |
| Se | 82 | 0.053 | ug/L | 0.082 | 156 | -5 | 5 | 310 |
| Se | 78 | -1.194 | ug/L | 0.249 | 20 | 11713 | 11524 | 0 |
| [Mo | 98 | 1.801 | ug/L | 0.025 | 1 | 207 | 12926 | 1 |
| Y | 89 | | ug/L | | | 309412 | 330458 | 0 |
| Kr | 83 | | ug/L | | | 376 | 439 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 361180 | 1 |
| Ag | 107 | 0.072 | ug/L | 0.002 | 2 | 101 | 954 | 0 |
| Cd | 111 | 0.352 | ug/L | 0.021 | 6 | 166 | 1199 | 4 |
| Cd | 114 | 0.302 | ug/L | 0.016 | 5 | 27 | 2111 | 4 |
| Sb | 121 | 0.035 | ug/L | 0.004 | 11 | 240 | 591 | 7 |
| Sb | 123 | 0.040 | ug/L | 0.003 | 7 | 169 | 466 | 4 |
| Ba | 135 | 6.220 | ug/L | 0.070 | 1 | 32 | 15609 | 0 |
| [Ba | 137 | 6.082 | ug/L | 0.050 | 0 | 65 | 26380 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 423101 | 0 |
| Tl | 205 | 0.021 | ug/L | 0.001 | 3 | 147 | 748 | 3 |
| Pb | 208 | 28.096 | ug/L | 0.075 | 0 | 1493 | 1105084 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 338871 | 1 |
| Th | 232 | 0.186 | ug/L | 0.002 | 1 | 719 | 9073 | 0 |
| [U | 238 | 1.041 | ug/L | 0.017 | 1 | 97 | 50030 | 1 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: UU52 J SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, May 24, 2012 01:09:28

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 439636 | 0 |
| [Be | 9 | 0.019 | ug/L | 0.004 | 19 | 3 | 10 | 13 |
| C | 13 | | mg/L | | | 5654 | 9009 | 0 |
| Cl | 37 | | mg/L | | | 2331174 | 2738165 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 268691 | 0 |
| V | 51 | 4.369 | ug/L | 0.046 | 1 | 2402 | 54695 | 1 |
| V-1 | 51 | 4.300 | ug/L | 0.026 | 0 | 8286 | 60600 | 0 |
| Cr | 52 | 4.328 | ug/L | 0.061 | 1 | 7360 | 52444 | 1 |
| Cr | 53 | 4.115 | ug/L | 0.155 | 3 | 2713 | 7814 | 1 |
| Mn | 55 | 27.476 | ug/L | 0.473 | 1 | 1178 | 482432 | 1 |
| Co | 59 | 0.918 | ug/L | 0.018 | 1 | 123 | 12353 | 1 |
| [> Ge | 72 | | ug/L | | | 333920 | 346876 | 0 |
| Ni | 60 | 4.135 | ug/L | 0.055 | 1 | 109 | 11689 | 0 |
| Ni | 62 | 4.927 | ug/L | 0.137 | 2 | 54 | 2119 | 2 |
| Cu | 63 | 6.770 | ug/L | 0.063 | 0 | 248 | 42670 | 1 |
| Cu | 65 | 6.979 | ug/L | 0.090 | 1 | 118 | 21052 | 0 |
| Zn | 66 | 16.782 | ug/L | 0.266 | 1 | 695 | 32558 | 1 |
| Zn | 67 | 15.685 | ug/L | 0.504 | 3 | 255 | 5224 | 2 |
| Zn | 68 | 16.852 | ug/L | 0.341 | 2 | 8462 | 31282 | 1 |
| As | 75 | 0.890 | ug/L | 0.056 | 6 | 693 | 2427 | 4 |
| As-1 | 75 | 0.537 | ug/L | 0.052 | 9 | 11505 | 12968 | 0 |
| Se | 82 | 0.005 | ug/L | 0.130 | 2852 | -5 | -4 | 589 |
| Se | 78 | -1.125 | ug/L | 0.085 | 7 | 11713 | 11586 | 0 |
| Mo | 98 | 0.984 | ug/L | 0.016 | 1 | 207 | 7177 | 1 |
| Y | 89 | | ug/L | | | 309412 | 329695 | 1 |
| Kr | 83 | | ug/L | | | 376 | 432 | 1 |
| [> In | 115 | | ug/L | | | 365357 | 366365 | 0 |
| Ag | 107 | 0.039 | ug/L | 0.003 | 6 | 101 | 573 | 6 |
| Cd | 111 | 0.217 | ug/L | 0.006 | 2 | 166 | 814 | 1 |
| Cd | 114 | 0.180 | ug/L | 0.002 | 1 | 27 | 1289 | 1 |
| Sb | 121 | -0.010 | ug/L | 0.001 | 9 | 240 | 135 | 7 |
| Sb | 123 | -0.011 | ug/L | 0.001 | 8 | 169 | 86 | 7 |
| Ba | 135 | 4.724 | ug/L | 0.044 | 0 | 32 | 12033 | 1 |
| Ba | 137 | 4.647 | ug/L | 0.077 | 1 | 65 | 20462 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 421537 | 0 |
| Tl | 205 | 0.021 | ug/L | 0.001 | 4 | 147 | 746 | 4 |
| Pb | 208 | 6.064 | ug/L | 0.085 | 1 | 1493 | 238744 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 338576 | 0 |
| Th | 232 | 0.157 | ug/L | 0.002 | 1 | 719 | 7722 | 0 |
| [U | 238 | 0.476 | ug/L | 0.003 | 0 | 97 | 22851 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, May 24, 2012 01:15:45

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 415800 | 0 |
| [Be | 9 | 53.273 | ug/L | 0.871 | 1 | 3 | 20528 | 0 |
| C | 13 | | mg/L | | | 5654 | 5157 | 1 |
| Cl | 37 | | mg/L | | | 2331174 | 2695359 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 249883 | 0 |
| V | 51 | 48.923 | ug/L | 0.269 | 0 | 2402 | 546317 | 0 |
| V-1 | 51 | 49.155 | ug/L | 0.127 | 0 | 8286 | 561947 | 0 |
| Cr | 52 | 48.948 | ug/L | 0.611 | 1 | 7360 | 479339 | 1 |
| Cr | 53 | 49.682 | ug/L | 0.418 | 0 | 2713 | 59163 | 0 |
| Mn | 55 | 48.556 | ug/L | 0.362 | 0 | 1178 | 792086 | 0 |
| Co | 59 | 49.907 | ug/L | 0.118 | 0 | 123 | 618131 | 0 |
| [> Ge | 72 | | ug/L | | | 333920 | 329368 | 1 |
| Ni | 60 | 49.815 | ug/L | 0.850 | 1 | 109 | 132511 | 0 |
| Ni | 62 | 50.007 | ug/L | 1.091 | 2 | 54 | 19934 | 1 |
| Cu | 63 | 50.344 | ug/L | 0.391 | 0 | 248 | 299730 | 1 |
| Cu | 65 | 50.794 | ug/L | 1.168 | 2 | 118 | 144743 | 1 |
| Zn | 66 | 52.366 | ug/L | 0.277 | 0 | 695 | 95020 | 1 |
| Zn | 67 | 52.700 | ug/L | 0.772 | 1 | 255 | 16072 | 0 |
| Zn | 68 | 53.460 | ug/L | 1.164 | 2 | 8462 | 76083 | 0 |
| As | 75 | 50.862 | ug/L | 0.723 | 1 | 693 | 93399 | 0 |
| As-1 | 75 | 50.719 | ug/L | 0.560 | 1 | 11505 | 102493 | 0 |
| Se | 82 | 48.970 | ug/L | 1.255 | 2 | -5 | 9948 | 1 |
| Se | 78 | 48.646 | ug/L | 0.636 | 1 | 11713 | 35414 | 0 |
| Mo | 98 | 49.296 | ug/L | 0.891 | 1 | 207 | 331291 | 0 |
| Y | 89 | | ug/L | | | 309412 | 294064 | 0 |
| Kr | 83 | | ug/L | | | 376 | 428 | 2 |
| [> In | 115 | | ug/L | | | 365357 | 346114 | 1 |
| Ag | 107 | 50.567 | ug/L | 1.159 | 2 | 101 | 578776 | 1 |
| Cd | 111 | 50.164 | ug/L | 0.565 | 1 | 166 | 141301 | 0 |
| Cd | 114 | 49.789 | ug/L | 1.132 | 2 | 27 | 329648 | 1 |
| Sb | 121 | 49.822 | ug/L | 0.132 | 0 | 240 | 477294 | 1 |
| Sb | 123 | 49.674 | ug/L | 0.551 | 1 | 169 | 357280 | 0 |
| Ba | 135 | 48.630 | ug/L | 0.406 | 0 | 32 | 116752 | 0 |
| Ba | 137 | 48.514 | ug/L | 0.955 | 1 | 65 | 201196 | 1 |
| [> Tb | 159 | | ug/L | | | 430587 | 404229 | 0 |
| Tl | 205 | 51.291 | ug/L | 0.415 | 0 | 147 | 1403600 | 1 |
| Pb | 208 | 51.087 | ug/L | 0.223 | 0 | 1493 | 1918553 | 0 |
| Bi | 209 | | ug/L | | | 345109 | 319139 | 0 |
| Th | 232 | 52.897 | ug/L | 0.541 | 1 | 719 | 2268867 | 0 |
| U | 238 | 51.783 | ug/L | 0.463 | 0 | 97 | 2372919 | 0 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, May 24, 2012 01:22:24

Number of Replicates: 3

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

Tuning File: C:\Elandata\Tuning\default.tun

Optimization File: C:\Elandata\Optimize\default.dac

Calibration File: C:\Elandata\Calibration\052312B.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|
| [> Li | 6 | | ug/L | | | 477870 | 407996 | 0 |
| [Be | 9 | -0.002 | ug/L | 0.004 | 193 | 3 | 2 | 69 |
| C | 13 | | mg/L | | | 5654 | 5141 | 2 |
| Cl | 37 | | mg/L | | | 2331174 | 2735401 | 0 |
| [> Sc | 45 | | ug/L | | | 262568 | 245522 | 0 |
| V | 51 | -0.021 | ug/L | 0.011 | 50 | 2402 | 2014 | 5 |
| V-1 | 51 | -0.045 | ug/L | 0.011 | 23 | 8286 | 7255 | 2 |
| Cr | 52 | -0.007 | ug/L | 0.014 | 207 | 7360 | 6815 | 1 |
| Cr | 53 | -0.081 | ug/L | 0.055 | 67 | 2713 | 2446 | 3 |
| Mn | 55 | -0.010 | ug/L | 0.003 | 31 | 1178 | 935 | 6 |
| [Co | 59 | 0.019 | ug/L | 0.003 | 15 | 123 | 350 | 10 |
| [> Ge | 72 | | ug/L | | | 333920 | 329382 | 0 |
| Ni | 60 | -0.006 | ug/L | 0.003 | 46 | 109 | 90 | 8 |
| Ni | 62 | 0.048 | ug/L | 0.027 | 56 | 54 | 72 | 14 |
| Cu | 63 | 0.014 | ug/L | 0.002 | 17 | 248 | 327 | 4 |
| Cu | 65 | 0.023 | ug/L | 0.008 | 35 | 118 | 183 | 12 |
| Zn | 66 | 0.337 | ug/L | 0.018 | 5 | 695 | 1294 | 2 |
| Zn | 67 | 0.318 | ug/L | 0.091 | 28 | 255 | 347 | 7 |
| Zn | 68 | 0.760 | ug/L | 0.181 | 23 | 8462 | 9310 | 2 |
| As | 75 | 0.077 | ug/L | 0.024 | 31 | 693 | 824 | 5 |
| As-1 | 75 | -0.072 | ug/L | 0.028 | 38 | 11505 | 11220 | 0 |
| Se | 82 | -0.046 | ug/L | 0.052 | 112 | -5 | -14 | 71 |
| Se | 78 | -0.323 | ug/L | 0.151 | 46 | 11713 | 11395 | 0 |
| [Mo | 98 | -0.017 | ug/L | 0.004 | 21 | 207 | 91 | 27 |
| Y | 89 | | ug/L | | | 309412 | 289804 | 0 |
| Kr | 83 | | ug/L | | | 376 | 423 | 3 |
| [> In | 115 | | ug/L | | | 365357 | 339102 | 0 |
| Ag | 107 | 0.001 | ug/L | 0.002 | 287 | 101 | 102 | 24 |
| Cd | 111 | 0.017 | ug/L | 0.003 | 17 | 166 | 201 | 3 |
| Cd | 114 | 0.001 | ug/L | 0.000 | 61 | 27 | 30 | 10 |
| Sb | 121 | 0.029 | ug/L | 0.015 | 50 | 240 | 496 | 27 |
| Sb | 123 | 0.031 | ug/L | 0.010 | 33 | 169 | 378 | 19 |
| Ba | 135 | 0.013 | ug/L | 0.002 | 14 | 32 | 59 | 7 |
| [Ba | 137 | 0.007 | ug/L | 0.002 | 32 | 65 | 88 | 11 |
| [> Tb | 159 | | ug/L | | | 430587 | 393951 | 0 |
| Tl | 205 | 0.001 | ug/L | 0.001 | 66 | 147 | 173 | 14 |
| Pb | 208 | 0.061 | ug/L | 0.004 | 6 | 1493 | 3606 | 4 |
| Bi | 209 | | ug/L | | | 345109 | 319967 | 0 |
| Th | 232 | 0.022 | ug/L | 0.009 | 39 | 719 | 1571 | 22 |
| [U | 238 | 0.002 | ug/L | 0.001 | 73 | 97 | 175 | 36 |

end package

Mercury Analysis Log

Analyst: DM

Date: 5-21-12

Instrument: CETA

Page: 2 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments | |
|---------------|-----------|----------|---------------|--------------------|---|
| CCV | Tmm | 1x | 4.15 | %R=104 | ✓ |
| CCB | Tmm | 1x | -0.01 | | ✓ |
| UUS1 A | Tmm | 1x | 0.00 | | |
| UUS1 ADUP | Tmm | 1x | 0.00 | NO RPD: Undetected | ✓ |
| UUS1 AFAC | Tmm | 1x | 1.10 | %R=110 | ✓ |
| CCV | Tmm | 1x | 4.18 | %R=105 | ✓ |
| CCB | Tmm | 1x | -0.00 | | ✓ |
| STD 0.0 | Smm | 1x | | | |
| STD 0.1 | Smm | 1x | | | |
| STD 0.5 | Smm | 1x | | | |
| STD 1.0 | Smm | 1x | | | |
| STD 2.0 | Smm | 1x | | | |
| STD 5.0 | Smm | 1x | | | |
| STD 10.0 | Smm | 1x | | | |
| ICV | Smm | 1x | 8.26 | Regrin CLP %R=103 | ✓ |
| ICB | Smm | 1x | -0.03 | | ✓ |
| CCV1 | Smm | 1x | 4.18 | %R=105 | ✓ |
| CCB1 | Smm | 1x | -0.02 | | ✓ |
| CRA | Smm | 1x | 0.11 | | ✓ |
| UUS2 MB1 | Smm | 1x | -0.00 | | ✓ |
| UUS2 MBISPK | Smm | 1x | 2.11 | %R=106 | ✓ |
| UUS2 A | Smm | 1x | | | |
| UUS2 B | Smm | 1x | | | |
| UUS2 C | Smm | 1x | 0.19 | | |
| UUS2 CDP | Smm | 1x | 0.19 | | ✓ |
| UUS2 CSPK | Smm | 1x | 1.28 | %R=109 | ✓ |
| UUS2 D | Smm | 1x | | | |
| UUS2 E | Smm | 1x | | | |
| CCV2 | Smm | 1x | 4.21 | %R=105 | ✓ |
| CCB2 | Smm | 1x | -0.01 | | ✓ |

Chemical/Reagent ID:
10% SnCl₂: MP2301

14% NH₂OH/NaCl: MP2289

Standard ID:
Standard: 293L-9 (Tmm)
293L-8 (Smm)

ICV/CCV: 50-18

Mercury Analysis Log

Analyst: DM
Instrument: CETAC

Date: 5-21-12
Page: 3 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---------------|-----------|----------|---------------|-------------|
| U052 F | Smm | 1X | | |
| U052 G | Smm | 1X | | |
| U052 H | Smm | 1X | | |
| U052 I | Smm | 1X | | |
| U052 J | Smm | 1X | | |
| U077 MB1 | Smm | 1X | 0.00 | ✓ |
| U077 MB19PK | Smm | 1X | 2.05 | %R=103 ✓ |
| U077 A | Smm | 1X | | |
| U077 B | Smm | 1X | 0.45 | |
| U077 B0VP | Smm | 1X | 0.68 | Diff 70.1 X |
| CC13 | Smm | 1X | 4.19 | %R=105 ✓ |
| CCB3 | Smm | 1X | -0.01 | ✓ |
| U077 B5PK | Smm | 1X | 1.46 | %R=101 ✓ |
| U077 C | Smm | 1X | | |
| U077 D | Smm | 1X | | |
| U077 E | Smm | 1X | | |
| CC14 | Smm | 1X | 4.20 | %R=105 ✓ |
| CCB4 | Smm | 1X | -0.01 | END CLP ✓ |
| U069 MB | Smm | 1X | -0.00 | ✓ |
| U069 MB5PK | Smm | 1X | 2.15 | %R=108 ✓ |
| U069 A | Smm | 1X | | |
| U003 MB3 | Smm | 1X | -0.00 | ✓ |
| U003 MB55PK | Smm | 1X | 2.18 | %R=109 ✓ |
| U003 K | Smm | 1X | | |
| CC1 | Smm | 1X | 4.24 | %R=106 ✓ |
| CCB | Smm | 1X | -0.01 | ✓ |
| CC1 | Smm | 1X | 4.24 | %R=106 ✓ |
| CCB | Smm | 1X | -0.01 | ✓ |
| U077 B | Smm | 1X | 0.45 | |
| U077 B0VP | Smm | 1X | 0.70 | Diff 70.1 X |

Chemical/Reagent ID:
10% SnCl₂: MP 2301
Standard ID:
Standard: 2936-B

14% NH₂OH/NaCl: MP 2250
ICV/CCV: 56-18

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5-21-12

| | Analyst 5-21-12 | Peer 5/21/12 | 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 | ✓ | ✓ | |
| ICB/CCB | ✓ | ✓ | |
| Samples: | | | |
| RSD's & SD's | ✓ | ✓ | |
| Internal Standards | - | - | |
| Carry-over | - | - | |
| Method QC: | | | |
| CRI/CRA | ✓ | ✓ | |
| ICSA/ICSAB | - | - | |
| Post Spikes/Serial Dilutions | - | - | |
| Analytic Spikes | - | - | |
| Matrix QC: | | | |
| SRM/LCS | ✓ | ✓ | |
| Matrix Spikes | ✓ | ✓ | |
| Matrix Duplicates | ✓ | ✓ | |
| Method Blanks | ✓ | ✓ | 0.77 BAP 0.1701 |
| 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 | ✓ | ✓ | See CAF |

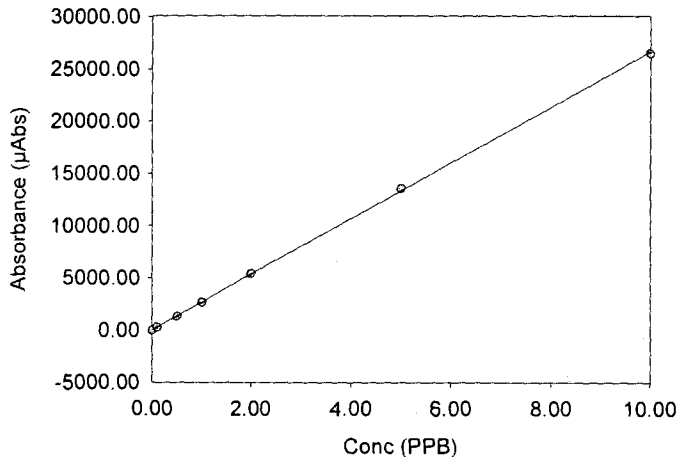
Analyst
 Date Started Monday, May 21, 2012, 14:16:29
 Worksheet ARI 10ppb CALIB
 Comment

Handwritten signature

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|------------------|--------------------|------------|------|----------------|----------|-------|
| Calibration Zero | 21-May-2012, 14:16 | 0.00 | 6.14 | -14.40 | 1.00 | |
| Standard #1 | 21-May-2012, 14:18 | 0.10 | 0.92 | 267.00 | 1.00 | |
| Standard #2 | 21-May-2012, 14:19 | 0.50 | 0.22 | 1320.00 | 1.00 | |
| Standard #3 | 21-May-2012, 14:21 | 1.00 | 0.30 | 2660.00 | 1.00 | |
| Standard #4 | 21-May-2012, 14:22 | 2.00 | 0.32 | 5410.00 | 1.00 | |
| Standard #5 | 21-May-2012, 14:24 | 5.00 | 0.32 | 13600.00 | 1.00 | |
| Standard #6 | 21-May-2012, 14:26 | 10.00 | 0.46 | 26500.00 | 1.00 | |

Smm

Calibration Data



Int. Slope 0.000
 2664.996
 Correlation 0.99992 ✓

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|
| ICV | 21-May-2012, 14:29 | 8.26 | 0.34 | 22000.00 | 1.00 | |
| ICB | 21-May-2012, 14:30 | -0.03 | 1.14 | -74.30 | 1.00 | |

Handwritten note: EQ 21 CLP

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-------------|--------------------|------------|------|----------------|----------|-------|
| QC Standard | 21-May-2012, 14:32 | 4.18 | 0.38 | 11100.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|
| QC Blank | 21-May-2012, 14:34 | -0.02 | 5.35 | -48.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|------------------|--------------------|------------|------|----------------|----------|-------|
| CRA | 21-May-2012, 14:35 | 0.11 | 0.53 | 283.00 | 1.00 | |
| UU52 MB1 SMM | 21-May-2012, 14:37 | -0.00 | 8.75 | -9.37 | 1.00 | |
| UU52 MB1 SPK SMM | 21-May-2012, 14:38 | 2.11 | 0.45 | 5630.00 | 1.00 | |
| UU52 A SMM | 21-May-2012, 14:40 | 0.17 | 0.51 | 448.00 | 1.00 | |
| UU52 B SMM | 21-May-2012, 14:42 | 0.21 | 0.48 | 550.00 | 1.00 | |
| UU52 C SMM | 21-May-2012, 14:43 | 0.19 | 0.74 | 512.00 | 1.00 | |
| UU52 CDUP SMM | 21-May-2012, 14:45 | 0.19 | 0.53 | 516.00 | 1.00 | |
| UU52 CSPK SMM | 21-May-2012, 14:46 | 1.28 | 0.42 | 3410.00 | 1.00 | |
| UU52 D SMM | 21-May-2012, 14:48 | 0.15 | 2.57 | 393.00 | 1.00 | |
| UU52 E SMM | 21-May-2012, 14:50 | 0.13 | 0.56 | 350.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-------------|--------------------|------------|------|----------------|----------|-------|
| QC Standard | 21-May-2012, 14:51 | 4.21 | 0.53 | 11200.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|
| QC Blank | 21-May-2012, 14:53 | -0.01 | 7.48 | -17.70 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|------------|--------------------|------------|------|----------------|----------|-------|
| UU52 F SMM | 21-May-2012, 14:55 | 0.14 | 0.40 | 360.00 | 1.00 | |
| UU52 G SMM | 21-May-2012, 14:56 | 0.31 | 0.42 | 814.00 | 1.00 | |
| UU52 H SMM | 21-May-2012, 14:58 | 0.21 | 0.62 | 546.00 | 1.00 | |
| UU52 I SMM | 21-May-2012, 14:59 | 0.12 | 1.03 | 312.00 | 1.00 | |

UU52 : 02170

Analyst
 Date Started Monday, May 21, 2012, 15:01:35
 Worksheet ARI 10ppb CALIB
 Comment

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------------|--------------------|------------|-------|-----------|----------|-------------|
| UU52 J SMM | 21-May-2012, 15:01 | 0.13 | 0.61 | 334.00 | 1.00 | |
| UU77 MB1 SMM | 21-May-2012, 15:03 | 0.00 | 37.70 | 2.96 | 1.00 | |
| UU77 MB1SPK SMM | 21-May-2012, 15:04 | 2.05 | 0.32 | 5450.00 | 1.00 | |
| UU77 A SMM | 21-May-2012, 15:06 | 0.33 | 0.40 | 885.00 | 1.00 | |
| UU77 B SMM | 21-May-2012, 15:08 | 0.45 | 0.31 | 1200.00 | 1.00 | |
| UU77 BDUP SMM | 21-May-2012, 15:09 | 0.68 | 0.35 | 1820.00 | 1.00 | - diff 70.1 |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-------------|--------------------|------------|------|-----------|----------|-------|
| QC Standard | 21-May-2012, 15:11 | 4.19 | 0.31 | 11200.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------|--------------------|------------|-------|-----------|----------|-------|
| QC Blank | 21-May-2012, 15:13 | -0.01 | 22.10 | -19.70 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|---------------|--------------------|------------|------|-----------|----------|-------|
| UU77 BSPK SMM | 21-May-2012, 15:14 | 1.46 | 0.31 | 3890.00 | 1.00 | |
| UU77 C SMM | 21-May-2012, 15:16 | 7.02 | 0.25 | 18700.00 | 1.00 | |
| UU77 D SMM | 21-May-2012, 15:17 | 6.09 | 0.33 | 16200.00 | 1.00 | |
| UU77 E SMM | 21-May-2012, 15:19 | 0.46 | 0.50 | 1230.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-------------|--------------------|------------|------|-----------|----------|-------|
| QC Standard | 21-May-2012, 15:21 | 4.20 | 0.30 | 11200.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------|--------------------|------------|------|-----------|----------|---------|
| QC Blank | 21-May-2012, 15:22 | -0.01 | 5.38 | -26.50 | 1.00 | END CLP |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------------|--------------------|------------|-------|-----------|----------|-------|
| UU69 MB SMM | 21-May-2012, 15:24 | -0.00 | 26.90 | -8.85 | 1.00 | |
| UU69 MBSPK SMM | 21-May-2012, 15:26 | 2.15 | 0.33 | 5730.00 | 1.00 | |
| UU69 A SMM | 21-May-2012, 15:27 | 0.06 | 2.75 | 150.00 | 1.00 | |
| UU03 MB3 SMM | 21-May-2012, 15:29 | -0.00 | 24.60 | -9.91 | 1.00 | |
| UU03 MB3SPK SMM | 21-May-2012, 15:30 | 2.18 | 0.39 | 5810.00 | 1.00 | |
| UU03 K SMM | 21-May-2012, 15:32 | 0.03 | 2.16 | 87.90 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-------------|--------------------|------------|------|-----------|----------|-------|
| QC Standard | 21-May-2012, 15:34 | 4.24 | 0.40 | 11300.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------|--------------------|------------|------|-----------|----------|-------|
| QC Blank | 21-May-2012, 15:35 | -0.01 | 6.38 | -32.30 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-------------|--------------------|------------|------|-----------|----------|-------|
| QC Standard | 21-May-2012, 15:45 | 4.24 | 0.41 | 11300.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-----------|--------------------|------------|-------|-----------|----------|-------|
| QC Blank | 21-May-2012, 15:47 | -0.01 | 14.30 | -22.90 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|---------------|--------------------|------------|------|-----------|----------|-------------|
| UU77 B SMM | 21-May-2012, 15:49 | 0.45 | 0.11 | 1200.00 | 1.00 | |
| UU77 BDUP SMM | 21-May-2012, 15:50 | 0.70 | 0.45 | 1870.00 | 1.00 | - diff 70.1 |
| UU77 BSPK SMM | 21-May-2012, 15:52 | 1.47 | 0.38 | 3930.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. µAbs | Dilution | Flags |
|-------------|--------------------|------------|------|-----------|----------|-------|
| QC Standard | 21-May-2012, 15:54 | 4.23 | 0.34 | 11300.00 | 1.00 | |

[Handwritten signature]



Mercury Standard Prep Log

Prep Code: THM
Analyst: DM
Bath Temp: 95°C

Digested 20.0mL

Instrument: CETAC
Date: 5-16-12
End Time: 1210

Start Time: 1010

| Standard ID | Stock ID | Volume Added (mL) | Final Volume (mL) | Standard Conc. (µg/L) | Number Made |
|-------------|----------|-------------------|-------------------|-----------------------|-------------|
| STD0 | - | 0.00 | 100.0 | 0.0 | 1 |
| STD1 | 2936-6 | 0.02 | 100.0 | 0.02 | 1 |
| STD2 | 2936-6 | 0.05 | 100.0 | 0.05 | 1 |
| STD3 | 2936-6 | 0.10 | 100.0 | 0.1 | 1 |
| STD4 | 2936-6 | 0.20 | 100.0 | 0.2 | 1 |
| STD5 | 2936-6 | 0.50 | 100.0 | 0.4 | 1 |
| STD6 | 2936-6 | 1.00 | 100.0 | 1.00 | 1 |
| CRA | 2936-6 | 0.02 | 100.0 | 0.02 | 1 |
| ICB/CCB | - | 0.00 | 100.0 | 0.0 | 1 |
| ICV/LCS | 2936-7 | 1.0 | 100.0 | 0.5 | 1 |
| CCV | 2936-7 | 1.0 | 100.0 | 0.5 | 1 |

Chemical/Reagent ID:

HNO₃: I7466 H₂SO₄: I7184 HCl: -
5% K₂S₂O₈: MP2272 5% KMnO₄: MP2273

Prep Code: SMM
Analyst: KM
Bath Temp: 95°C

Instrument: CETAC
Date: 5/16/12
End Time: 1200

Start Time: 1130

| Standard ID | Stock ID | Volume Added (mL) | Final Volume (mL) | Standard Conc. (µg/L) | Number Made |
|-------------|----------|-------------------|-------------------|-----------------------|-------------|
| STD0 | - | 0.00 | 50.0 | 0.0 | 3 |
| STD1 | 2936-8 | 0.01 | 50.0 | 0.1 | 2 |
| STD2 | 2936-8 | 0.05 | 50.0 | 0.5 | 2 |
| STD3 | 2936-8 | 0.10 | 50.0 | 1.0 | 2 |
| STD4 | 2936-8 | 0.20 | 50.0 | 2.0 | 2 |
| STD5 | 2936-8 | 0.50 | 50.0 | 5.0 | 2 |
| STD6 | 2936-8 | 1.00 | 50.0 | 10.0 | 2 |
| CRA | 2936-8 | 0.01 | 50.0 | 0.1 | 1 |
| ICB/CCB | - | 0.00 | 50.0 | 0.0 | 3 |
| ICV/LCS | 56-18 | 0.08 | 50.0 | 8.0 | 2 |
| CCV | 56-18 | 0.04 | 50.0 | 4.0 | 3 |

Chemical/Reagent ID:

HNO₃: I7466 H₂SO₄: I7184 HCl: -
5% K₂S₂O₈: MP2272 5% KMnO₄: MP2273



Mercury Digestion Log

Prep Code: SMM
Analyst: KM
Bath Temp: 95°C

Matrix: Soil
Date: 5/18/12
End Time: 1515

Start Time: 1445

| ARI Sample ID | Sample Bottle # | pH<2 | Initial Weight (g) Volume (mL) | Final Volume (mL) | # KMnO ₄ Aliquots | CLP | Comments |
|------------------|-----------------|------|-----------------------------------|-------------------|---------------------------------|-----|----------|
| UU52 A | 3 | — | 0.225 | 50.0 | 5/26 1 | Y | |
| UU52 B | 3 | — | 0.269 | 50.0 | 1 | Y | |
| UU52 C | 3 | — | 0.267 | 50.0 | 1 | Y | |
| UU52 D | 3 | — | 0.247 | 50.0 | 1 | Y | |
| UU52 E | 3 | — | 0.270 | 50.0 | 1 | Y | |
| UU52 CDUP | 3 | — | 0.268 | 50.0 | 1 | Y | |
| UU52 CSPK | 3 | — | 0.267 | 50.0 | 1 | Y | |
| UU52 F | 3 | — | 0.216 | 50.0 | 1 | Y | |
| UU52 G | 3 | — | 0.223 | 50.0 | 1 | Y | |
| UU52 H | 3 | — | 0.253 | 50.0 | 1 | Y | |
| UU52 I | 3 | — | 0.234 | 50.0 | 1 | Y | |
| UU52 J | 3 | — | 0.286 | 50.0 | 1 | Y | |
| UU52 MBI | — | — | — | 50.0 | 1 | Y | |
| UU52 MBSPK | — | — | — | 50.0 | 1 | Y | |
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KM
5/18/12

Chemical/Reagent ID:
 HNO₃: I7466 H₂SO₄: I7184 HCl: —
 5% K₂S₂O₈: MP2272 5% KMnO₄: MP2273 Digest Tube Lot: 1108215

Mercury Analysis Log

Analyst: DM
 Instrument: CETA

Date: 5-21-12
 Page: 1 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments | |
|---------------|-----------|----------|---------------|----------------------|----------|
| STD 0.0 | TWM | 1X | | | |
| STD 0.1 | TWM | 1X | | | |
| STD 0.5 | TWM | 1X | | | |
| STD 1.0 | TWM | 1X | | | |
| STD 2.0 | TWM | 1X | | | |
| STD 5.0 | TWM | 1X | | | |
| STD 10.0 | TWM | 1X | | | |
| ICV | TWM | 1X | 8.42 | Begin CLP | %R=105 ✓ |
| ICB | TWM | 1X | -0.02 | | ✓ |
| CCV | TWM | 1X | 4.17 | | %R=104 ✓ |
| CCB | TWM | 1X | -0.01 | | ✓ |
| CRA | TWM | 1X | 0.10 | | ✓ |
| U062 MB1 | TWM | 1X | 0.00 | | ✓ |
| U062 MBSPK | TWM | 1X | 2.21 | | %R=111 ✓ |
| U062 J | TWM | 1X | -0.00 | | |
| U062 JDP | TWM | 1X | -0.00 | NO RPD: UNK DETECTED | ✓ |
| U062 JSPK | TWM | 1X | 1.13 | | %R=113 ✓ |
| U062 K | TWM | 1X | | | |
| QC12 | TWM | 1X | 4.14 | | %R=104 ✓ |
| QCB2 | TWM | 1X | -0.01 | END CLP | ✓ |
| U066 MB | TWM | 1X | 0.00 | | ✓ |
| U066 MBSPK | TWM | 1X | 2.15 | | %R=108 ✓ |
| U066 A | TWM | 1X | | | |
| U066 B | TWM | 1X | | | |
| U068 A | TWM | 1X | | | |
| U025 MB | TWM | 1X | 0.00 | | ✓ |
| U025 MBSPK | TWM | 1X | 2.18 | | %R=109 ✓ |
| U026 A | TWM | 1X | | | |
| U031 MB | TWM | 1X | 0.00 | | ✓ |
| U031 MBSPK | TWM | 1X | 2.15 | | %R=108 ✓ |

Chemical/Reagent ID:
 10% SnCl₂: MP2301

14% NH₂OH/NaCl: MP2269

Standard ID:
 Standard: 2036.9

ICV/CCV: 5-17 56.16
DM 5-21-12

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5-21-12

| | Analyst 5-21-12 | Peer W.H.M.12 | 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 | ✓ | ✓ | |
| ICB/CCB | ✓ | ✓ | |
| Samples: | | | |
| RSD's & SD's | ✓ | ✓ | |
| Internal Standards | - | - | |
| Carry-over | - | - | |
| Method QC: | | | |
| CRI/CRA | ✓ | ✓ | |
| ICSA/ICSAB | - | - | |
| Post Spikes/Serial Dilutions | - | - | |
| Analytic Spikes | - | - | |
| Matrix QC: | | | |
| SRM/LCS | ✓ | ✓ | |
| Matrix Spikes | ✓ | ✓ | |
| Matrix Duplicates | ✓ | ✓ | with dup diff 101 |
| 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 | ✓ | ✓ | see CAF |

Analyst
Date Started Monday, May 21, 2012, 13:12:31
Worksheet ARI 10ppb CALIB
Comment

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|------------|--------------------|------------|------|----------------|----------|-------|
| Std Tube 6 | 21-May-2012, 13:12 | 10.00 | 0.72 | 30900.00 | 1.00 | |

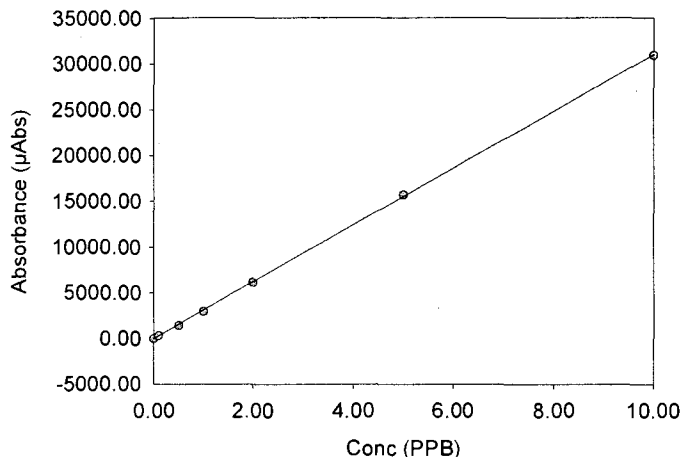
Information about this calibration could not be retrieved from the Master File.

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|------------------|--------------------|------------|------|----------------|----------|-------|
| Calibration Zero | 21-May-2012, 13:14 | 0.00 | 8.48 | -14.40 | 1.00 | |
| Standard #1 | 21-May-2012, 13:16 | 0.10 | 0.91 | 300.00 | 1.00 | |
| Standard #2 | 21-May-2012, 13:18 | 0.50 | 0.63 | 1390.00 | 1.00 | |
| Standard #3 | 21-May-2012, 13:19 | 1.00 | 0.53 | 2930.00 | 1.00 | |
| Standard #4 | 21-May-2012, 13:21 | 2.00 | 0.62 | 6120.00 | 1.00 | |
| Standard #5 | 21-May-2012, 13:22 | 5.00 | 0.59 | 15700.00 | 1.00 | |
| Standard #6 | 21-May-2012, 13:24 | 10.00 | 0.49 | 31000.00 | 1.00 | |

✓ JB 5/22/12

Twm

Calibration Data



Int. Slope 0.000
3105.070
Correlation 0.99992

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|
| ICV | 21-May-2012, 13:27 | 8.42 | 0.24 | 26100.00 | 1.00 | |
| ICB | 21-May-2012, 13:29 | -0.02 | 2.63 | -71.20 | 1.00 | |

Begin CLP

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-------------|--------------------|------------|------|----------------|----------|-------|
| QC Standard | 21-May-2012, 13:30 | 4.17 | 0.37 | 12900.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|
| QC Blank | 21-May-2012, 13:32 | -0.01 | 6.05 | -34.90 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------------|--------------------|------------|-------|----------------|----------|-------|
| CRA | 21-May-2012, 13:34 | 0.10 | 0.66 | 309.00 | 1.00 | |
| UU62 MB1 TWM | 21-May-2012, 13:35 | 0.00 | 37.50 | 8.57 | 1.00 | |
| UU62 MB1SPK TWM | 21-May-2012, 13:37 | 2.21 | 0.32 | 6870.00 | 1.00 | |
| UU62 J TWM | 21-May-2012, 13:38 | -0.00 | 16.90 | -10.70 | 1.00 | |
| UU62 JDUP TWM | 21-May-2012, 13:40 | -0.00 | 44.80 | -7.28 | 1.00 | |
| UU62 JSPK TWM | 21-May-2012, 13:42 | 1.13 | 0.39 | 3490.00 | 1.00 | |
| UU62 K TWM | 21-May-2012, 13:43 | 0.00 | 48.80 | 5.01 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-------------|--------------------|------------|------|----------------|----------|-------|
| QC Standard | 21-May-2012, 13:45 | 4.14 | 0.43 | 12900.00 | 1.00 | |

| Sample ID | Analysis Time | Conc (PPB) | %RSD | Avg. μ Abs | Dilution | Flags |
|-----------|--------------------|------------|-------|----------------|----------|-------|
| QC Blank | 21-May-2012, 13:46 | -0.01 | 11.30 | -16.50 | 1.00 | |

END CLP



Mercury Standard Prep Log

Digested 20.0ml

Prep Code: TWM

Instrument: CETAC

Analyst: KM

Date: 5/16/12

Bath Temp: 91°C

Start Time: 1520

End Time: 1720

| Standard ID | Stock ID | Volume Added (mL) | Final Volume (mL) | Standard Conc. (µg/L) | Number Made |
|-------------|----------|-------------------|-------------------|-----------------------|-------------|
| STD0 | — | 0.00 | 100.0 | 0.0 | 1 |
| STD1 | 2936-9 | 0.01 | 100.0 | 0.1 | 1 |
| STD2 | 2936-9 | 0.05 | 100.0 | 0.5 | 1 |
| STD3 | 2936-9 | 0.10 | 100.0 | 1.0 | 1 |
| STD4 | 2936-9 | 0.20 | 100.0 | 2.0 | 1 |
| STD5 | 2936-9 | 0.50 | 100.0 | 5.0 | 1 |
| STD6 | 2936-9 | 1.00 | 100.0 | 10.0 | 1 |
| CRA | 2936-9 | 0.01 | 100.0 | 0.1 | 1 |
| ICB/CCB | — | 0.00 | 100.0 | 0.0 | 1 |
| ICV/LCS | 56-18 | 0.16 | 100.0 | 8.0 | 1 |
| CCV | 56-18 | 0.08 | 100.0 | 4.0 | 1 |

Chemical/Reagent ID:

HNO₃: I7466

H₂SO₄: I7184

HCl: —

5% K₂S₂O₈: MP2272

5% KMnO₄: MP2273

Prep Code: _____

Instrument: _____

Analyst: _____

Date: _____

Bath Temp: _____

Start Time: _____

End Time: _____

| Standard ID | Stock ID | Volume Added (mL) | Final Volume (mL) | Standard Conc. (µg/L) | Number Made |
|-------------|----------|-------------------|-------------------|-----------------------|-------------|
| STD0 | | 0.00 | | | |
| STD1 | | | | | |
| STD2 | | 0.05 | | | |
| STD3 | | 0.10 | | | |
| STD4 | | 0.20 | | | |
| STD5 | | 0.50 | | | |
| STD6 | | 1.00 | | | |
| CRA | | | | | |
| ICB/CCB | | 0.00 | | | |
| ICV/LCS | | | | | |
| CCV | | | | | |

Chemical/Reagent ID:

HNO₃: _____

H₂SO₄: _____

HCl: _____

5% K₂S₂O₈: _____

5% KMnO₄: _____



Mercury Digestion Log

Prep Code: TWM

Matrix: Water

Analyst: MJ

Date: 05.18.12

Bath Temp: 90C

Start Time: 1035

End Time: 1235

| ARI Sample ID | Sample Bottle # | pH<2 | Initial Weight (g) Volume (mL) | Final Volume (mL) | # KMnO ₄ Aliquots | CLP | Comments |
|-----------------------|-----------------|--------------|-----------------------------------|-------------------|-------------------------------|--------------|----------|
| UU62 J | 1 | ✓ | 20.0 | 20.0 | ^{05.26} 1 | Y | |
| UU62 JUMP | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 JSFK | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 K | 1 | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 MBI | — | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU62 MBSFK | — | ✓ | 20.0 | 20.0 | 1 | Y | |
| UU66 A | 6 | ✓ | 20.0 | 20.0 | ^{05.27} 1 | N |] BATCH |
| UU66 B | 6 | ✓ | 20.0 | 20.0 | 1 | N | |
| UU66 MB | — | ✓ | 20.0 | 20.0 | 1 | N | |
| UU66 MBSFK | — | ✓ | 20.0 | 20.0 | 1 | N | |
| UU68 A | 6 | ✓ | 20.0 | 20.0 | ^{05.27} 1 | N | |
| <i>05.18.12 MJ</i> | | | | | | | |

[Handwritten signature]

Chemical/Reagent ID:

HNO₃: I7466

H₂SO₄: I7184

HCl: —

5% K₂S₂O₈: MP2272

5% KMnO₄: MP2273

Digest Tube Lot: 111173

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: UU52, UU62

[Handwritten Signature]

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

ZnOAc PRES.

DATE: 5/21/2012

ANALYST: CDE / KE 18:46

Instrumentation

Drying Ovens: 12

Analytical Balance: 1123230597

Muffle Furnace: N/A

| | | | | | | | | | | |
|--|-------------------|---|--|--|--|--|--|--|--|--|
| Batch drying time record times as mm/dd/yy hh:mm | | TS (%) calculated as: Final dry wt (g) = (Dry Wt - Tare Wt) TS = (Final Dry Wt)/(grams Sample-Tare) | | | | TVS (mg/kg dry wt) calculated as: Final ash wt (g) = (min ash wt - tare wt) TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 if ash wt > dry wt, "Chk for Err" if dry wt-ash wt < 0.001 g, "< (1/dry wt) *1,000,000 | | | | |
| 5/21/2012 18:46 | date/time in oven | CDE | | | | | | | | |
| 5/22/2012 9:50 | date/time out | KE | | | | | | | | |
| elapsed hrs = 15.1 | | | | | | | | | | |

| | | | | | | | | | | | | |
|----------------------------|-------------|-------------------|-------------------|------------------|--|--|--|-------|-------|--|--|--|
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | CV-02 | CV-02 | | | |
| | Date & Time | 5/21/17 18:31 CDE | 5/21/12 18:02 CDE | 5/22/12 10:07 KE | | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | 10.0000 | | | | | | | | |
| record weights to 4 places | Cal OK! | Cal OK! | Cal OK! | | | | | | | | | |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | | Ash Wt (g) | TVS (mg/kg) (%) | |
|-------------|--------|----------------|-----------------|---------------------|--|--|------------|--------|---------------------|---|--|------------|-----------------|--|
| | | | | 1 | | | | | 1 | 2 | | | | |
| Blank | | | 1.0697 | 1.0695 | | | 0.00 | | | | | | | |
| UU52 A1 | | 5.7549 | 1.1032 | 1.5528 | | | 0.45 | 9.7% | | | | | | |
| UU52 B1 | | 5.9279 | 1.1152 | 1.5816 | | | 0.47 | 9.7% | | | | | | |
| UU52 C1 | | 6.0710 | 1.0846 | 1.6088 | | | 0.52 | 10.5% | | | | | | |
| UU52 D1 | | 5.9068 | 1.0853 | 1.6087 | | | 0.52 | 10.9% | | | | | | |
| UU52 E1 | | 5.6996 | 1.0903 | 1.5517 | | | 0.46 | 10.0% | | | | | | |
| UU52 F1 | | 7.0072 | 1.1037 | 1.5950 | | | 0.49 | 8.3% | | | | | | |
| UU52 G1 | | 7.1493 | 1.1040 | 1.5189 | | | 0.41 | 6.9% | | | | | | |
| UU52 H1 | | 7.1873 | 1.1164 | 2.2680 | | | 1.15 | 19.0% | | | | | | |
| UU52 I 1 | | 6.7462 | 1.1051 | 1.5634 | | | 0.46 | 8.1% | | | | | | |
| UU52 J 1 | | 6.1080 | 1.0705 | 1.6069 | | | 0.54 | 10.6% | | | | | | |
| UU52 K1 | | 6.2759 | 1.1027 | 1.6435 | | | 0.54 | 10.5% | | | | | | |
| UU62 A2 | | 5.4002 | 1.1191 | 1.5754 | | | 0.46 | 10.7% | | | | | | |
| UU62 A2 dup | | 6.2273 | 1.0920 | 1.6397 | | | 0.55 | 10.7% | | | | | | |

RPD = 0.06%

RPD = NA

| | | | | | | | | | | | | | | |
|----------|--|--------|--------|--------|--|--|------|-------|--|--|--|--|--|--|
| UU62 B2 | | 6.7711 | 1.1052 | 1.7301 | | | 0.62 | 11.0% | | | | | | |
| UU62 C2 | | 5.9420 | 1.0731 | 1.5823 | | | 0.51 | 10.5% | | | | | | |
| UU62 D2 | | 6.9835 | 1.0837 | 1.6509 | | | 0.57 | 9.6% | | | | | | |
| UU62 E2 | | 6.2392 | 1.0827 | 1.6378 | | | 0.56 | 10.8% | | | | | | |
| UU62 F2 | | 6.0887 | 1.0727 | 1.6248 | | | 0.55 | 11.0% | | | | | | |
| UU62 G2 | | 7.2866 | 1.0940 | 1.7732 | | | 0.68 | 11.0% | | | | | | |
| UU62 H2 | | 7.1339 | 1.0867 | 1.5338 | | | 0.45 | 7.4% | | | | | | |
| UU62 I 2 | | 7.2643 | 1.0665 | 1.7520 | | | 0.69 | 11.1% | | | | | | |

0052-0218



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

ZnOAc Preserved

| Analyst: <i>WCS/10</i> | | Date: <i>5-21-12</i> | Oven ID: <i>12</i> | Balance ID: <i>1123230597</i> | | | | | | |
|---|----------------------|--|----------------------|---|---------------|---|------------------|------------------|---|---|
| Time in Oven: <i>18:46</i> | | Time Out of Oven: <i>9:50</i> | | Elapsed Time (> 12 Hrs): | | | | | | |
| Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places | | TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight) | | TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000 If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000 | | | | | | |
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | | | |
| Date & Time: | <i>5-21-12 18:31</i> | <i>5-21-12 18:07</i> | <i>5-22-12 10:07</i> | | | | | | | |
| Cal Weight (10.0000): | <i>10.0000</i> | <i>10.0000</i> | <i>10.0000</i> | <i>10.0000</i> | | | | | | |
| Sample ID | Dish # | Sample | Tare | Dry Weight 104°C | | | Dry Weight grams | Ash Weight 550°C | | |
| | | | | 1 | 2 | 3 | | 1 | 2 | 3 |
| BLANK | <i>21</i> | <i>Ø</i> | <i>1.0697</i> | <i>1.0695</i> | | | | | | |
| <i>WU52</i> | <i>A¹</i> | <i>2</i> | <i>5.7549</i> | <i>1.1032</i> | <i>1.5528</i> | | | | | |
| | <i>B¹</i> | <i>3</i> | <i>5.9279</i> | <i>1.1152</i> | <i>1.5816</i> | | | | | |
| | <i>C¹</i> | <i>4</i> | <i>6.0710</i> | <i>1.0846</i> | <i>1.6088</i> | | | | | |
| | <i>D¹</i> | <i>5</i> | <i>5.9068</i> | <i>1.0853</i> | <i>1.6087</i> | | | | | |
| | <i>E¹</i> | <i>6</i> | <i>5.6996</i> | <i>1.0903</i> | <i>1.5517</i> | | | | | |
| | <i>F¹</i> | <i>7</i> | <i>7.0072</i> | <i>1.1037</i> | <i>1.5950</i> | | | | | |
| | <i>G¹</i> | <i>8</i> | <i>7.1493</i> | <i>1.1040</i> | <i>1.5184</i> | | | | | |
| | <i>H¹</i> | <i>9</i> | <i>7.1873</i> | <i>1.1164</i> | <i>2.2680</i> | | | | | |
| | <i>I¹</i> | <i>10</i> | <i>6.7462</i> | <i>1.1051</i> | <i>1.5634</i> | | | | | |
| | <i>J¹</i> | <i>11</i> | <i>6.1080</i> | <i>1.0705</i> | <i>1.6069</i> | | | | | |
| <i>WU62</i> | <i>K¹</i> | <i>12</i> | <i>6.2759</i> | <i>1.1027</i> | <i>1.6435</i> | | | | | |
| | <i>A²</i> | <i>13</i> | <i>5.4002</i> | <i>1.1191</i> | <i>1.5754</i> | | | | | |
| | <i>A²</i> | <i>14</i> | <i>6.2273</i> | <i>1.0920</i> | <i>1.6397</i> | | | | | |
| | <i>B²</i> | <i>15</i> | <i>6.7711</i> | <i>1.1052</i> | <i>1.7301</i> | | | | | |
| | <i>C²</i> | <i>16</i> | <i>5.9420</i> | <i>1.0731</i> | <i>1.5823</i> | | | | | |
| | <i>D²</i> | <i>17</i> | <i>6.9835</i> | <i>1.0837</i> | <i>1.6509</i> | | | | | |
| | <i>E²</i> | <i>18</i> | <i>6.2392</i> | <i>1.0827</i> | <i>1.6378</i> | | | | | |
| | <i>F²</i> | <i>19</i> | <i>6.0887</i> | <i>1.0727</i> | <i>1.6248</i> | | | | | |
| | <i>G²</i> | <i>20</i> | <i>7.2866</i> | <i>1.0940</i> | <i>1.7732</i> | | | | | |
| | <i>H²</i> | <i>21</i> | <i>7.1339</i> | <i>1.0867</i> | <i>1.5338</i> | | | | | |
| <i>I²</i> | <i>22</i> | <i>7.2643</i> | <i>1.0665</i> | <i>1.7520</i> | | | | | | |

WU52: 02181

5/22/12

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET DATE: 5/22/2012
SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) ANALYST: KE 19:59 (A)

Instrumentation Drying Ovens: 12 Analytical Balance: 1123230597
Muffle Furnace: N/A

| | | |
|--------------------------------------|---|---|
| Batch drying time | TS (%) calculated as: | TVS (mg/kg dry wt) calculated as: |
| record times as mm/dd/yy hh:mm | Final dry wt (g) = (Dry Wt - Tare Wt) | Final ash wt (g) = (min ash wt - tare wt) |
| 5/22/2012 19:59 date/time in oven KE | TS = (Final Dry Wt)/(grams Sample-Tare) | TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 |
| 5/23/2012 11:24 date/time out KE | | if ash wt > dry wt, "Chk for Err" |
| elapsed hrs = <u>15.4</u> | | if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000" |

| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | CV-02 | CV-02 | | | |
|----------------------------|------------------|------------------|------------------|-------|--|--|--|-------|-------|--|--|--|
| Date & Time | 5/22/12 14:10 KE | 5/22/12 13:10 KE | 5/23/12 11:39 KE | | | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | | | | | | | | | |
| record weights to 4 places | Cal OK! | Cal OK! | Cal OK! | | | | | | | | | |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | Ash Wt (g) | TVS (mg/kg) (%) | |
|-------------|--------|----------------|-----------------|---------------------|--|------------|--------|---------------------|---|------------|-----------------|--|
| | | | | 1 | | | | 1 | 2 | | | |
| Blank | | | 1.0920 | 1.0919 | | 0.00 | | | | | | |
| UU52 A1 | | 6.4621 | 1.0627 | 1.6154 | | 0.55 | 10.2% | | | | | |
| UU52 B1 | | 6.2811 | 1.0880 | 1.6202 | | 0.53 | 10.2% | | | | | |
| UU52 C1 | | 6.7227 | 1.0774 | 1.6636 | | 0.59 | 10.4% | | | | | |
| UU52 D1 | | 6.6617 | 1.1141 | 1.6305 | | 0.52 | 9.3% | | | | | |
| UU52 E1 | | 6.5580 | 1.1073 | 1.6687 | | 0.56 | 10.3% | | | | | |
| UU52 F1 | | 6.9637 | 1.0952 | 1.6367 | | 0.54 | 9.2% | | | | | |
| UU52 G1 | | 6.2645 | 1.0996 | 1.6055 | | 0.51 | 9.8% | | | | | |
| UU52 H1 | | 6.3479 | 1.0822 | 1.9688 | | 0.89 | 16.8% | | | | | |
| UU52 I 1 | | 6.0304 | 1.0868 | 1.6179 | | 0.53 | 10.7% | | | | | |
| UU52 J 1 | | 7.4572 | 1.0873 | 1.7334 | | 0.65 | 10.1% | | | | | |
| UU62 A1 | | 5.7385 | 1.1214 | 1.6022 | | 0.48 | 10.4% | | | | | |
| UU62 A1 dup | | 5.9644 | 1.0850 | 1.5891 | | 0.50 | 10.3% | | | | | |

RPD = 0.79% RPD = NA

| | | | | | | | | | | | | |
|-------------|--------|--------|--------|--|--|------|-------|--|--|--|--|--|
| UU62 A1 trp | 5.8348 | 1.0790 | 1.5736 | | | 0.49 | 10.4% | | | | | |
|-------------|--------|--------|--------|--|--|------|-------|--|--|--|--|--|

RSD = 0.42% RSD = NA

| | | | | | | | | | | | | |
|---------|--|--------|--------|--------|--|------|-------|--|--|--|--|--|
| UU62 B1 | | 6.3197 | 1.0853 | 1.5963 | | 0.51 | 9.8% | | | | | |
| UU62 B1 | | 8.1428 | 1.0999 | 1.7818 | | 0.68 | 9.7% | | | | | |
| UU62 B1 | | 7.0330 | 1.1032 | 1.6553 | | 0.55 | 9.3% | | | | | |
| UU62 B1 | | 7.3446 | 1.0745 | 1.6899 | | 0.62 | 9.8% | | | | | |
| UU62 B1 | | 6.7839 | 1.1072 | 1.6913 | | 0.58 | 10.3% | | | | | |
| UU62 B1 | | 7.1027 | 1.1112 | 1.8522 | | 0.74 | 12.4% | | | | | |

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 5/22/2012

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

ANALYST: KE 19:59 (A)

Instrumentation

Drying Ovens: 12

Analytical Balance: 1123230597

Muffle Furnace: N/A

| Batch drying time | | TS (%) calculated as: | | | | TVS (mg/kg dry wt) calculated as: | | | | | | |
|--------------------------------|----------------------|---|------------------|---------------------|--|---|--------|---------------------|-------|------------|-----------------|--|
| record times as mm/dd/yy hh:mm | | Final dry wt (g) = (Dry Wt - Tare Wt) | | | | Final ash wt (g) = (min ash wt - tare wt) | | | | | | |
| 5/22/2012 19:59 | date/time in oven KE | TS = (Final Dry Wt)/(grams Sample-Tare) | | | | TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 | | | | | | |
| 5/23/2012 11:24 | date/time out KE | | | | | if ash wt > dry wt, "Chk for Err" | | | | | | |
| elapsed hrs = 15.4 | | | | | | if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000" | | | | | | |
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | CV-02 | CV-02 | | | |
| Date & Time | 5/22/12 14:10 KE | 5/22/12 13:10 KE | 5/23/12 11:39 KE | | | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | | | | | | | | | |
| record weights to 4 places | Cal OK! | Cal OK! | Cal OK! | | | | | | | | | |
| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | Ash Wt (g) | TVS (mg/kg) (%) | |
| | | | | 1 | | | | 1 | 2 | | | |
| UU61 B2 | | 6.5073 | 1.0778 | 1.5330 | | 0.46 | 8.4% | | | | | |
| UU61 B2 | | 6.5346 | 1.0854 | 1.7256 | | 0.64 | 11.7% | | | | | |
| UU52 K1 | | 7.1779 | 1.0738 | 1.7226 | | 0.65 | 10.6% | | | | | |

052:02183



TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

| Analyst: (W) | | Date: 5-22-12 | | | | Oven ID: 12 | | Balance ID: 1123230597 | | |
|---|--------|--|---------------|------------------|-------|--|------------------|------------------------|-------|---|
| Time in Oven: 19:59 | | Time Out of Oven: 11:04 | | | | Elapsed Time (> 12 Hrs): | | | | |
| Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places | | TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight) | | | | TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000] (A) If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000 | | | | |
| Cal Weight ID | | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | |
| Date & Time: | | 5-22-12 14:10 | 5-22-12 13:10 | 5-22-12 11:39 | | | | | | |
| Cal Weight (10.0000): | | 10.0000 (W) | 10.0000 (W) | 10.0000 (W) | | | | | | |
| Sample ID | Dish # | Sample | Tare | Dry Weight 104°C | | | Dry Weight grams | Ash Weight 550°C | | |
| | | | | 1 | 2 | 3 | | 1 | 2 | 3 |
| BLANK | 1 | Ø | 1.0920 | 1.0919 | | | | | | |
| U152 A1 | 2 | 6.4621 | 1.0627 | 1.6154 | | | | | | |
| | B1 | 6.2811 | 1.0880 | 1.6202 | | | | | | |
| | C1 | 6.7227 | 1.0774 | 1.6636 | | | | | | |
| | D1 | 6.6617 | 1.1141 | 1.6305 | | | | | | |
| | E1 | 6.5580 | 1.1073 | 1.6687 | | | | | | |
| | F1 | 6.9637 | 1.0952 | 1.6367 | | | | | | |
| | G1 | 6.2645 | 1.0996 | 1.6055 | | | | | | |
| | H1 | 6.3479 | 1.0822 | 1.6688 | | | | | | |
| | I1 | 6.0304 | 1.0868 | 1.6179 | | | | | | |
| ✓ | J1 | 7.4572 | 1.0873 | 1.7334 | | | | | | |
| U167 A1 | 12 | 5.7385 | 1.1214 | 1.6022 | | | | | | |
| | 13 | 5.9644 | 1.0858 | 1.5891 | | | | | | |
| | 14 | 5.8348 | 1.0790 | 1.5736 | | | | | | |
| | 15 | 6.3197 | 1.0853 | 1.5963 | | | | | | |
| | 16 | 5.1428 | 1.0999 | 1.7818 | | | | | | |
| | 17 | 7.0330 | 1.1622 | 1.6553 | | | | | | |
| | 18 | 7.3446 | 1.0745 | 1.6899 | | | | | | |
| | 19 | 6.7839 | 1.1072 | 1.6913 | | | | | | |
| | 20 | 7.1027 | 1.1112 | 1.4522 | | | | | | |
| | 21 | 6.5073 | 1.0778 | 1.5330 | | | | | | |
| ✓ | I1 | 6.6346 | 1.0854 | 1.7256 | | | | | | |
| U152 K1 | 23 | 7.1779 | 1.0738 | 1.7226 | | | | | | |

U152: 02184

Handwritten signature

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

DATE: 5/22/2012

ANALYST: KE 20:16 (A)

make no entry to shaded cells, they are calculated

| Sample ID | | IC Test + / - | Gravimetric Data (grams) | | | % Solids | Sample description & notes (homogeneity and exclusions) |
|--------------|--------|------------------|--------------------------|---------|-------------|-------------|--|
| ARI # | Client | | Tare Wt. | Wet wt. | 70°C dry wt | | |
| Blank | | | 13.2166 | | 13.2166 | 0 mg | |
| UU52 A1 | | - | 13.2789 | 18.4767 | 13.8568 | 11.12% | |
| UU52 B1 | | - | 13.2959 | 18.4106 | 13.8641 | 11.11% | |
| UU52 C1 | | - | 13.3543 | 18.1976 | 13.9180 | 11.64% | |
| UU52 D1 | | - | 13.3613 | 18.5305 | 13.9056 | 10.53% | |
| UU52 E1 | | - | 13.4183 | 19.5993 | 14.1012 | 11.05% | |
| UU52 F1 | | - | 13.2879 | 19.2153 | 13.8039 | 8.71% | |
| UU52 G1 | | - | 13.2933 | 17.6730 | 13.7292 | 9.95% | |
| UU52 H1 | | - | 13.2445 | 19.3995 | 14.3521 | 18.00% | |
| UU52 I 1 | | - | 13.3466 | 19.9070 | 14.1765 | 12.65% | |
| UU52 J 1 | | - | 13.3198 | 19.1937 | 13.9878 | 11.37% | |
| UU62 A1 | | - | 13.3426 | 17.5260 | 13.8293 | 11.63% | |
| UU62 A1 dup | | - | 13.4002 | 17.5174 | 13.8807 | 11.67% | RPD = 0.31% |
| UU62 A1 trip | | - | 13.2918 | 17.6138 | 13.7951 | 11.65% | RSD = 0.16% |
| UU62 B1 | | - | 13.2982 | 17.8189 | 13.7296 | 9.54% | |
| UU62 C1 | | - | 13.2593 | 18.8427 | 13.8487 | 10.56% | |
| UU62 D1 | | - | 13.3530 | 18.2639 | 13.8584 | 10.29% | |
| UU62 E1 | | - | 13.2843 | 20.2848 | 14.0388 | 10.78% | |
| UU62 F1 | | - | 13.3865 | 18.4751 | 13.9651 | 11.37% | |
| UU62 G1 | | - | 13.2466 | 18.2343 | 14.0005 | 15.12% | |
| UU62 H1 | | - | 13.3433 | 18.1257 | 13.7770 | 9.07% | |
| UU62 I 1 | | - | 13.1241 | 18.2178 | 13.7988 | 13.25% | |
| UU52 K1 | | - | 13.2392 | 19.5091 | 13.9541 | 11.40% | |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

② 13.2166 5-22-12 (K)

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

Analyst

①

20116

Date

5-22-12

(A)

| Sample Identification | | IC Test | Gravimetric Data | | | % Solids | Sample description & notes | |
|-----------------------|-----------|---------|------------------|---------|---------|----------|--|--|
| ARI # | Client ID | | Tare | Wet | 70 °C | | | |
| Blank | | | ② | ① | 13.2166 | | | |
| UUS2 A1 | | - | 13.2789 | 18.4767 | 13.8568 | | W. wet Sediment white | |
| B1 | | - | 13.2959 | 18.4106 | 13.8641 | | ↓ Debris & sediment Debris & moisture (Wet Sediment + Rubi) V-wet Sediment | |
| C1 | | - | 13.3543 | 18.1976 | 13.9180 | | | |
| D1 | | - | 13.3613 | 18.5305 | 13.9056 | | | |
| E1 | | - | 13.4183 | 19.5993 | 14.1012 | | | |
| F1 | | - | 13.2879 | 19.2153 | 13.8039 | | | |
| G1 | | - | 13.2933 | 17.6730 | 13.7292 | | | |
| H1 | | - | 13.2445 | 19.3995 | 14.3521 | | | |
| I1 | | - | 13.3466 | 19.9070 | 14.1765 | | | |
| J1 | | - | 13.3198 | 19.1937 | 13.9878 | | | |
| UUS2 A1 | | - | 13.3426 | 17.5260 | 13.8293 | | | ↓ Debris & moisture Sediment V. Wet + Rubi |
| NA1 | | - | 13.4002 | 17.5174 | 13.8807 | | | |
| PD1 | | - | 13.2918 | 17.6138 | 13.7951 | | | |
| B1 | | - | 13.2982 | 17.8220 | 13.7296 | | | |
| C1 | | - | 13.2593 | 18.8427 | 13.7293 | 13.8487 | | |
| D1 | | - | 13.3530 | 19.2639 | 13.8487 | 13.8584 | | |
| E1 | | - | 13.2843 | 20.2848 | 13.8584 | 14.0388 | | |
| F1 | | - | 13.3865 | 18.4751 | 14.0388 | 13.9651 | | |
| G1 | | - | 13.2466 | 18.7343 | 13.9651 | 14.0005 | | |
| H1 | | - | 13.3433 | 18.1257 | 13.9 | 14.0005 | 13.7170 | |
| I1 | | - | 13.1241 | 18.2178 | 13.7768 | 13.7188 | Debris - small - moisture | |
| UUS2 K1 | | - | 13.2392 | 19.5091 | 13.9541 | | Wet Sed + Rubi | |

5-22-12
①

Original Run Filename: OM_5-21-2012_12-47-10PM.OMN Created: 5/21/2012 12:47:10 PM

Original Run Author's Signature: [Carol Hawkins]

Current Run Filename: 052112NH3A.omn Last Modified: 5/21/2012 3:04:13 PM

Current Run Author's Signature: [Carol Hawkins]

Description: LACHAT 1

ARI In-House Standards: 00122-3

| Sample | Cup No. | Channel 1 | | Detection Time | MANUAL DILUTION FACTOR |
|----------------|---------|----------------|------------|-----------------------|------------------------|
| | | NH3 | | | |
| | | Conc. (mg N/L) | Area (V.s) | | |
| STD 1.0 | S1 | 1 | 40.2259 | 5/21/2012@12:48:09 PM | |
| STD 0.8 | S2 | 0.8 | 32.0222 | 5/21/2012@12:49:20 PM | |
| STD 0.5 | S3 | 0.5 | 19.8143 | 5/21/2012@12:50:30 PM | |
| STD 0.2 | S4 | 0.2 | 7.981 | 5/21/2012@12:51:40 PM | |
| STD 0.05 | S5 | 0.05 | 1.9237 | 5/21/2012@12:52:50 PM | |
| STD 0.02 | S6 | 0.02 | 0.8151 | 5/21/2012@12:54:01 PM | |
| STD 0.01 | S7 | 0.01 | 0.4091 | 5/21/2012@12:55:11 PM | |
| BLANK | S8 | 0 | -0.3586 | 5/21/2012@12:56:21 PM | |
| ICV ERA 130611 | 9 | 0.5275 | 21.1039 | 5/21/2012@12:57:32 PM | |
| Known Conc: | | 0.5 | | | |
| ICB | 10 | -0.0052 | -0.3331 | 5/21/2012@1:03:28 PM | |
| Known Conc: | | 0 | | | |
| LOW | 11 | 0.0136 | 0.4225 | 5/21/2012@1:09:25 PM | |
| Known Conc: | | 0.01 | | | |
| PREP BLANK | 12 | -0.0044 | -0.2993 | 5/21/2012@1:15:22 PM | |
| PREP-CHECK | 13 | 39.856 | 80.0689 | 5/21/2012@1:16:32 PM | 20 |
| Spiking Conc: | | 10 | | | |

%R= 105.50

| | | | | | |
|----------------|----|---------|---------|----------------------|----|
| UU62A1 | 14 | 0.9842 | 39.4815 | 5/21/2012@1:17:43 PM | |
| UU62A1-DUP | 15 | 1.0276 | 41.2294 | 5/21/2012@1:18:53 PM | |
| UU62A1-MS | 16 | 41.3349 | 83.0447 | 5/21/2012@1:20:04 PM | 20 |
| -Spiking Conc: | | 10 | | | |
| UU62B1 | 19 | 0.2162 | 8.5762 | 5/21/2012@1:21:15 PM | |
| UU62C1 | 20 | 1.5325 | 61.545 | 5/21/2012@1:22:25 PM | |
| UU62D1 | 21 | 1.0594 | 42.4959 | 5/21/2012@1:23:36 PM | |
| UU62E1 | 22 | 1.9593 | 78.72 | 5/21/2012@1:24:48 PM | |
| CCV | 17 | 0.5262 | 21.0497 | 5/21/2012@1:25:58 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0056 | -0.3486 | 5/21/2012@1:31:55 PM | |
| Known Conc: | | 0 | | | |
| UU62F1 | 23 | 1.2848 | 51.5793 | 5/21/2012@1:37:52 PM | |
| UU62G1 | 24 | 1.5016 | 60.302 | 5/21/2012@1:39:03 PM | |
| UU62H1 | 25 | 0.954 | 38.2667 | 5/21/2012@1:40:13 PM | |
| UU62I1 | 26 | 1.4353 | 57.6342 | 5/21/2012@1:41:25 PM | |
| UU52A2 | 27 | 1.3537 | 54.35 | 5/21/2012@1:42:37 PM | |
| UU52B2 | 28 | 1.3099 | 52.588 | 5/21/2012@1:43:48 PM | |
| UU52C2 | 29 | 2.1347 | 85.7796 | 5/21/2012@1:44:59 PM | |
| UU52D2 | 30 | 1.4843 | 59.6048 | 5/21/2012@1:46:10 PM | |
| UU52E2 | 31 | 1.8374 | 73.8039 | 5/21/2012@1:47:22 PM | |
| UU52F2 | 32 | 0.6199 | 24.8216 | 5/21/2012@1:48:33 PM | |
| CCV | 17 | 0.5265 | 21.0616 | 5/21/2012@1:49:44 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0059 | -0.3618 | 5/21/2012@1:55:40 PM | |
| Known Conc: | | 0 | | | |

%R= 105.24

%R= 105.30

| | | | | | |
|---------------|----|---------|---------|----------------------|----|
| UU52G2 | 33 | 0.1747 | 6.9063 | 5/21/2012@2:01:38 PM | |
| UU52H2 | 34 | 0.5669 | 22.6888 | 5/21/2012@2:02:48 PM | |
| UU52I2 | 35 | 0.1269 | 4.9835 | 5/21/2012@2:04:00 PM | |
| UU52J2 | 36 | 1.1247 | 45.1362 | 5/21/2012@2:05:12 PM | |
| UU52K2 | 37 | 1.1343 | 45.5205 | 5/21/2012@2:06:24 PM | |
| PREP CHECK | 38 | 10.0876 | 20.1731 | 5/21/2012@2:07:35 PM | 20 |
| UU62A1 MS | 39 | 10.424 | 20.849 | 5/21/2012@2:08:46 PM | 20 |
| Spiking Conc: | | 10 | | | |
| UU62A1 DUP | 40 | 1.0373 | 20.7476 | 5/21/2012@2:09:58 PM | 2 |
| UU62C1 | 41 | 1.5427 | 30.9172 | 5/21/2012@2:11:09 PM | 2 |
| UU62D1 | 42 | 1.0635 | 21.2749 | 5/21/2012@2:12:21 PM | 2 |
| CCV | 17 | 0.5268 | 21.074 | 5/21/2012@2:13:32 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.003 | -0.2446 | 5/21/2012@2:19:28 PM | |
| Known Conc: | | 0 | | | |
| UU62E1 | 43 | 1.9343 | 15.4442 | 5/21/2012@2:25:26 PM | 5 |
| UU62F1 | 44 | 1.2823 | 25.6772 | 5/21/2012@2:26:38 PM | 2 |
| UU62G1 | 45 | 1.5107 | 30.2719 | 5/21/2012@2:27:49 PM | 2 |
| UU62I1 | 46 | 1.4366 | 28.7815 | 5/21/2012@2:29:01 PM | 2 |
| UU52A2 | 47 | 1.3558 | 27.1552 | 5/21/2012@2:30:13 PM | 2 |
| UU52B2 | 48 | 1.3064 | 26.1615 | 5/21/2012@2:31:25 PM | 2 |
| UU52C2 | 49 | 2.1155 | 16.9026 | 5/21/2012@2:32:37 PM | 5 |
| UU52D2 | 50 | 1.4922 | 29.9 | 5/21/2012@2:33:49 PM | 2 |
| UU52E2 | 51 | 1.8262 | 14.5737 | 5/21/2012@2:35:01 PM | 5 |
| UU52J2 | 52 | 1.1319 | 22.6501 | 5/21/2012@2:36:13 PM | 2 |

%R= 100.88

%R= 93.87

SPK=0.4ML@1000PPM/40ML=10PPM

%RPD= 5.25

%R= 105.36

| | | | | | |
|-------------|----|---------|---------|----------------------|---|
| CCV | 17 | 0.5277 | 21.1127 | 5/21/2012@2:37:24 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0047 | -0.3116 | 5/21/2012@2:43:21 PM | |
| Known Conc: | | 0 | | | |
| UU52K2 | 53 | 1.1393 | 22.7995 | 5/21/2012@2:49:19 PM | 2 |
| KCL | 54 | -0.0062 | -0.3714 | 5/21/2012@2:50:31 PM | |
| CCV | 17 | 0.5291 | 21.1675 | 5/21/2012@2:51:42 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0054 | -0.3411 | 5/21/2012@2:57:39 PM | |
| Known Conc: | | 0 | | | |

%R= 105.54

%R= 105.82

Soil Extraction Log

Date: 5-21-12 11:10

Parameter:

Analyst: *GA*

Extraction Procedure: 44g Soil 40ml KCl
 Shake 1 hr allow settle, filter, Analyze

| Time | Sample ID | Spikes and Standards | | | | | Notes & Comments |
|-------|------------|----------------------|------------------|----------------|--------------------|------------------------|------------------|
| | | Sample Wt (grams) | Extract Vol (mL) | Vol added (mL) | Conc of Std (mg/L) | Conc in Extract (mg/L) | |
| 11:10 | Blank | | 40ml | | | | |
| | Prep Check | | | 0.4 | 1000 | 10 | EPA 130611 |
| | UU52A1 | 3.96 | | | | | |
| | dup | 4.06 | | | | | |
| | MS | 3.84 | | 0.4 | 1000 | 10 | ACT |
| | B1 | 4.24 | | | | | |
| | C1 | 4.09 | | | | | |
| | D1 | 4.28 | | | | | |
| | E1 | 3.87 | | | | | |
| | F1 | 4.11 | | | | | |
| | G1 | 3.79 | | | | | |
| | H1 | 3.87 | | | | | |
| | I1 | 3.80 | | | | | |
| | UU52A2 | 4.04 | | | | | |
| | B2 | 3.94 | | | | | |
| | C2 | 3.83 | | | | | |
| | D2 | 3.77 | | | | | |
| | E2 | 4.00 | | | | | |
| | F2 | 3.79 | | | | | |
| | G2 | 4.00 | | | | | |
| | H2 | 4.07 | | | | | |
| | I2 | 3.77 | | | | | |
| | J2 | 3.84 | | | | | |
| | K2 | 4.29 | | | | | |

Original Run Filename: OM_5-21-2012_12-47-10PM.OMN Created: 5/21/2012 12:47:10 PM

Original Run Author's Signature: [Carol Hawkins]

Current Run Filename: 052112NH3A.omn Last Modified: 5/21/2012 3:04:13 PM

Current Run Author's Signature: [Carol Hawkins]

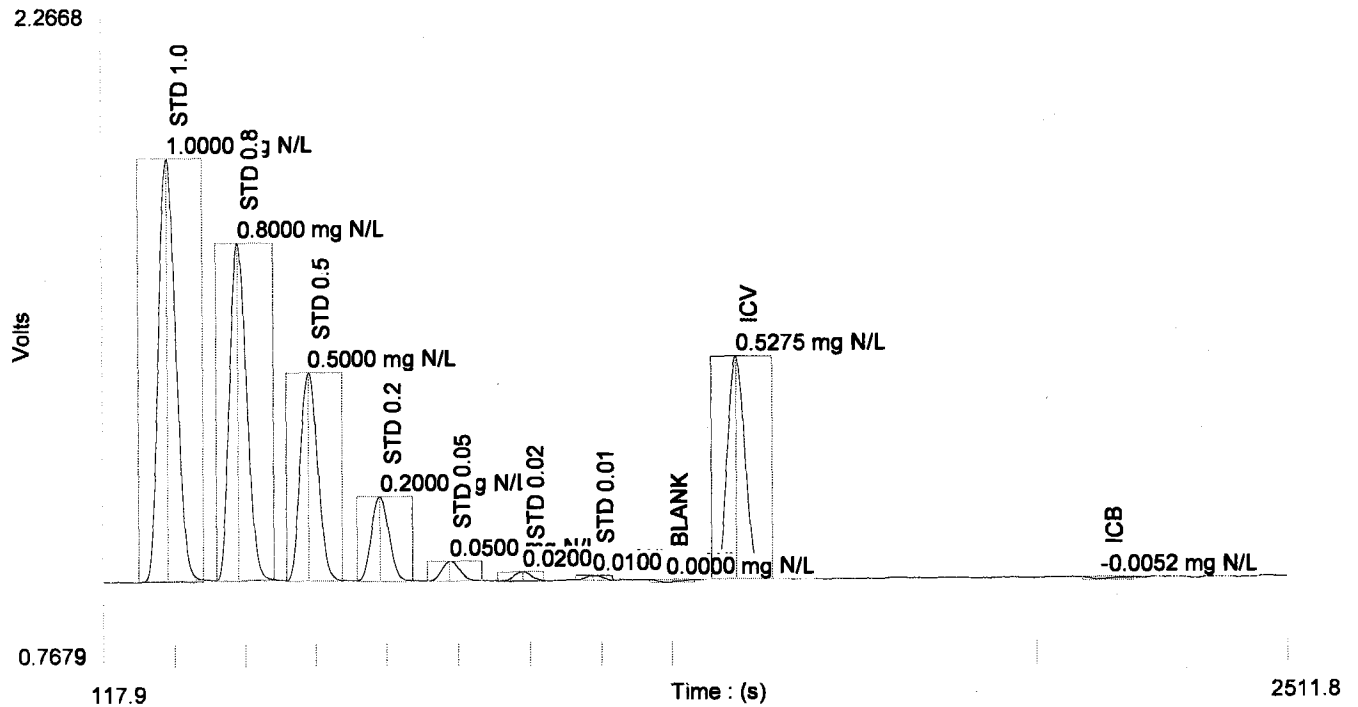
Description: Default New Run

| Sample | Cup No. | Channel 1 | | Detection Time | MDF |
|---------------|---------|--------------------------|---------------|-----------------------|-------|
| | | NH3 Conc. (mg N/L) | Area (V.s) | | |
| STD 1.0 | S1 | 1.0000 | 40.2259 | 5/21/2012@12:48:09 PM | |
| STD 0.8 | S2 | 0.8000 | 32.0222 | 5/21/2012@12:49:20 PM | |
| STD 0.5 | S3 | 0.5000 | 19.8143 | 5/21/2012@12:50:30 PM | |
| STD 0.2 | S4 | 0.2000 | 7.9810 | 5/21/2012@12:51:40 PM | |
| STD 0.05 | S5 | 0.0500 | 1.9237 | 5/21/2012@12:52:50 PM | |
| STD 0.02 | S6 | 0.0200 | 0.8151 | 5/21/2012@12:54:01 PM | |
| STD 0.01 | S7 | 0.0100 | 0.4091 | 5/21/2012@12:55:11 PM | |
| BLANK | S8 | 0.0000 | -0.3586 | 5/21/2012@12:56:21 PM | |
| ICV | 9 | 0.5275 | 21.1039 | 5/21/2012@12:57:32 PM | |
| Known Conc: | | 0.5000 | | | |
| Calibration: | | Table/Fig. : 1 | | | |
| ICB | 10 | -0.0052 | -0.3331 | 5/21/2012@1:03:28 PM | |
| Known Conc: | | 0.0000 | | | |
| LOW | 11 | 0.0136 | 0.4225 | 5/21/2012@1:09:25 PM | |
| Known Conc: | | 0.0100 | | | |
| PREP BLANK | 12 | -0.0044 | -0.2993 | 5/21/2012@1:15:22 PM | |
| PREP CHECK | 13 | 39.8560 | 80.0689 | 5/21/2012@1:16:32 PM | 20.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62A1 | 14 | 0.9842 | 39.4815 | 5/21/2012@1:17:43 PM | |
| UU62A1 DUP | 15 | 1.0276 | 41.2291 | 5/21/2012@1:18:53 PM | |
| UU62A1 MS | 16 | 41.3349 | 83.0447 | 5/21/2012@1:20:04 PM | 20.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62B1 | 19 | 0.2162 | 8.5762 | 5/21/2012@1:21:15 PM | |
| UU62C1 | 20 | 1.5325 | 61.5450 | 5/21/2012@1:22:25 PM | |
| UU62D1 | 21 | 1.0591 | 42.4959 | 5/21/2012@1:23:36 PM | |
| UU62E1 | 22 | 1.9593 | 78.7200 | 5/21/2012@1:24:48 PM | |
| CCV | 17 | 0.5262 | 21.0497 | 5/21/2012@1:25:58 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0056 | -0.3486 | 5/21/2012@1:31:55 PM | |
| Known Conc: | | 0.0000 | | | |
| UU62F1 | 23 | 1.2848 | 51.5793 | 5/21/2012@1:37:52 PM | |
| UU62G1 | 24 | 1.5016 | 60.3020 | 5/21/2012@1:39:03 PM | |
| UU62H1 | 25 | 0.9540 | 38.2667 | 5/21/2012@1:40:13 PM | |
| UU62I1 | 26 | 1.4353 | 57.6342 | 5/21/2012@1:41:25 PM | |
| UU52A2 | 27 | 1.3537 | 54.3500 | 5/21/2012@1:42:37 PM | |
| UU52B2 | 28 | 1.3099 | 52.5880 | 5/21/2012@1:43:48 PM | |
| UU52C2 | 29 | 2.1347 | 85.7796 | 5/21/2012@1:44:59 PM | |
| UU52D2 | 30 | 1.4843 | 59.6048 | 5/21/2012@1:46:10 PM | |
| UU52E2 | 31 | 1.8371 | 73.8039 | 5/21/2012@1:47:22 PM | |
| UU52F2 | 32 | 0.6199 | 24.8216 | 5/21/2012@1:48:33 PM | |
| CCV | 17 | 0.5265 | 21.0616 | 5/21/2012@1:49:44 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0059 | -0.3618 | 5/21/2012@1:55:40 PM | |
| Known Conc: | | 0.0000 | | | |
| UU52G2 | 33 | 0.1747 | 6.9063 | 5/21/2012@2:01:38 PM | |
| UU52H2 | 34 | 0.5669 | 22.6888 | 5/21/2012@2:02:48 PM | |
| UU52I2 | 35 | 0.1269 | 4.9835 | 5/21/2012@2:04:00 PM | |
| UU52J2 | 36 | 1.1247 | 45.1362 | 5/21/2012@2:05:12 PM | |
| UU52K2 | 37 | 1.1343 | 45.5205 | 5/21/2012@2:06:24 PM | |
| PREP CHECK | 38 | 10.0876 | 20.1731 | 5/21/2012@2:07:35 PM | 20.00 |
| UU62A1 MS | 39 | 10.4240 | 20.8490 | 5/21/2012@2:08:46 PM | 20.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62A1 DUP | 40 | 1.0373 | 20.7476 | 5/21/2012@2:09:58 PM | 2.00 |
| UU62C1 | 41 | 1.5427 | 30.9172 | 5/21/2012@2:11:09 PM | 2.00 |
| UU62D1 | 42 | 1.0635 | 21.2749 | 5/21/2012@2:12:21 PM | 2.00 |
| CCV | 17 | 0.5268 | 21.0740 | 5/21/2012@2:13:32 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0030 | -0.2446 | 5/21/2012@2:19:28 PM | |

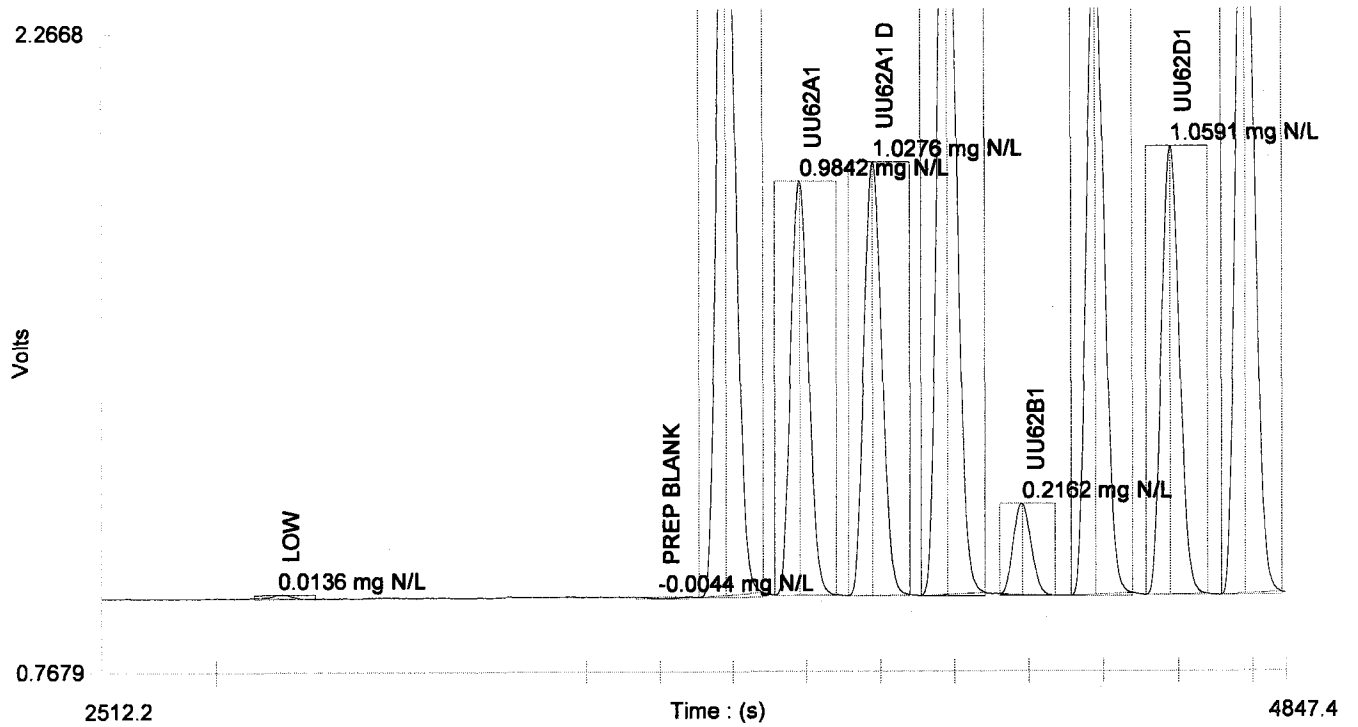
Handwritten: RA
5-21-12

| | | | | | |
|-------------|----|---------|---------|----------------------|------|
| Known Conc: | | 0.0000 | | | |
| UU62E1 | 43 | 1.9343 | 15.4442 | 5/21/2012@2:25:26 PM | 5.00 |
| UU62F1 | 44 | 1.2823 | 25.6772 | 5/21/2012@2:26:38 PM | 2.00 |
| UU62G1 | 45 | 1.5107 | 30.2719 | 5/21/2012@2:27:49 PM | 2.00 |
| UU62I1 | 46 | 1.4366 | 28.7815 | 5/21/2012@2:29:01 PM | 2.00 |
| UU52A2 | 47 | 1.3558 | 27.1552 | 5/21/2012@2:30:13 PM | 2.00 |
| UU52B2 | 48 | 1.3064 | 26.1615 | 5/21/2012@2:31:25 PM | 2.00 |
| UU52C2 | 49 | 2.1155 | 16.9026 | 5/21/2012@2:32:37 PM | 5.00 |
| UU52D2 | 50 | 1.4922 | 29.9000 | 5/21/2012@2:33:49 PM | 2.00 |
| UU52E2 | 51 | 1.8262 | 14.5737 | 5/21/2012@2:35:01 PM | 5.00 |
| UU52J2 | 52 | 1.1319 | 22.6501 | 5/21/2012@2:36:13 PM | 2.00 |
| CCV | 17 | 0.5277 | 21.1127 | 5/21/2012@2:37:24 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0047 | -0.3116 | 5/21/2012@2:43:21 PM | |
| Known Conc: | | 0.0000 | | | |
| UU52K2 | 53 | 1.1393 | 22.7995 | 5/21/2012@2:49:19 PM | 2.00 |
| KCL | 54 | -0.0062 | -0.3714 | 5/21/2012@2:50:31 PM | |
| CCV | 17 | 0.5291 | 21.1675 | 5/21/2012@2:51:42 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0054 | -0.3411 | 5/21/2012@2:57:39 PM | |
| Known Conc: | | 0.0000 | | | |

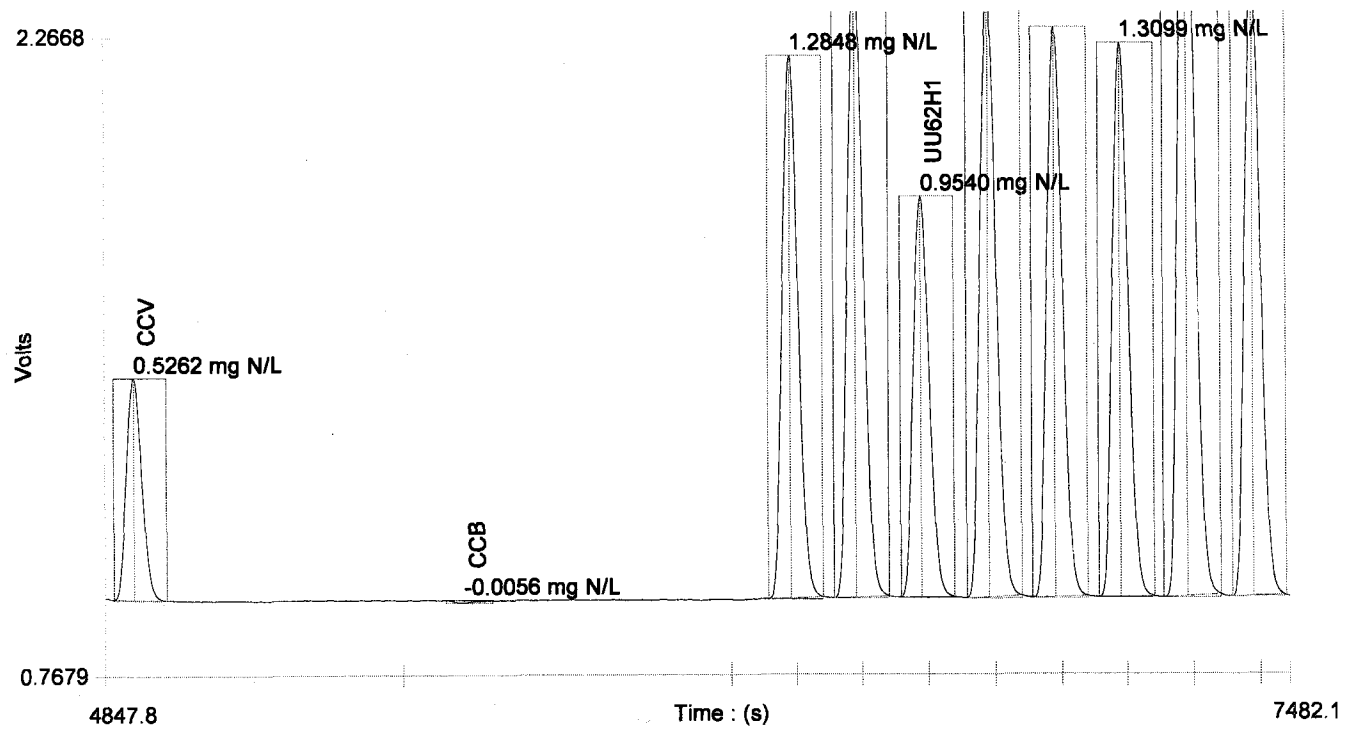
Channel 1 - Set: 1 / 7



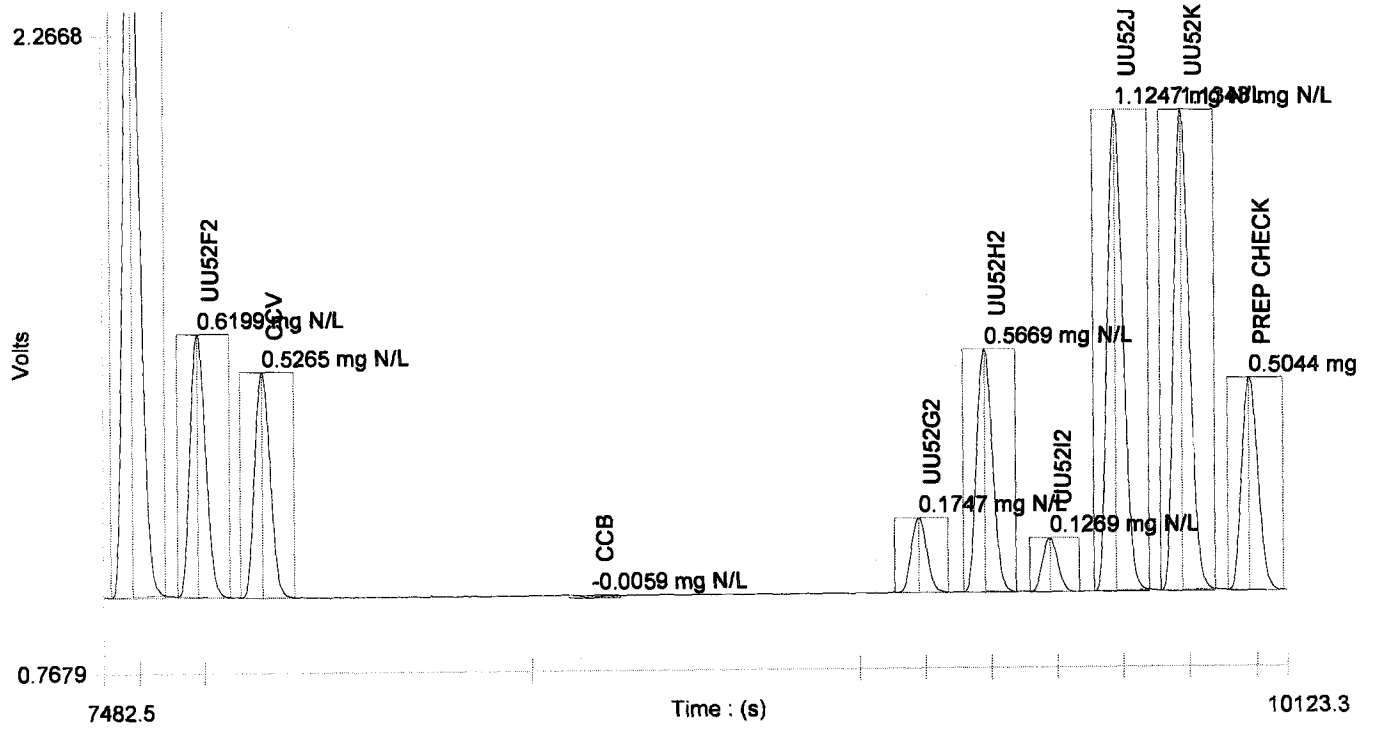
Channel 1 - Set: 2 / 7



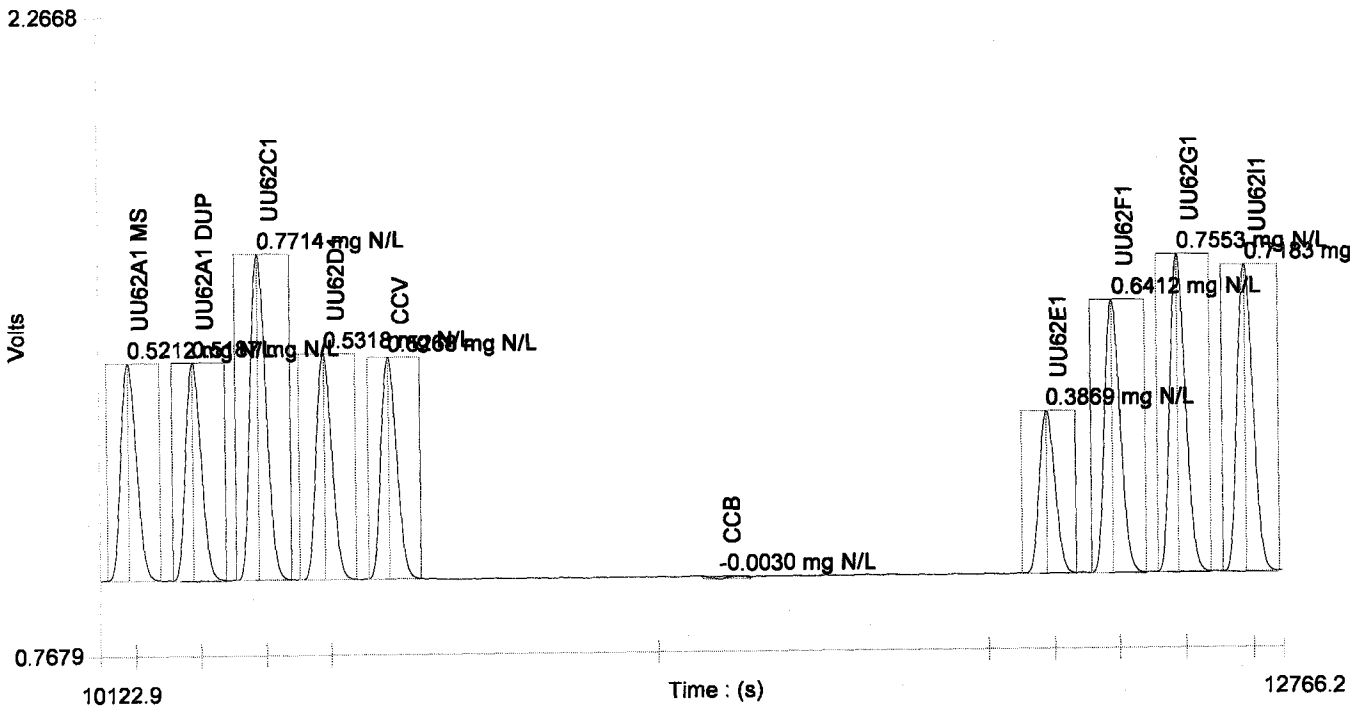
Channel 1 - Set: 3 / 7



Channel 1 - Set: 4 / 7

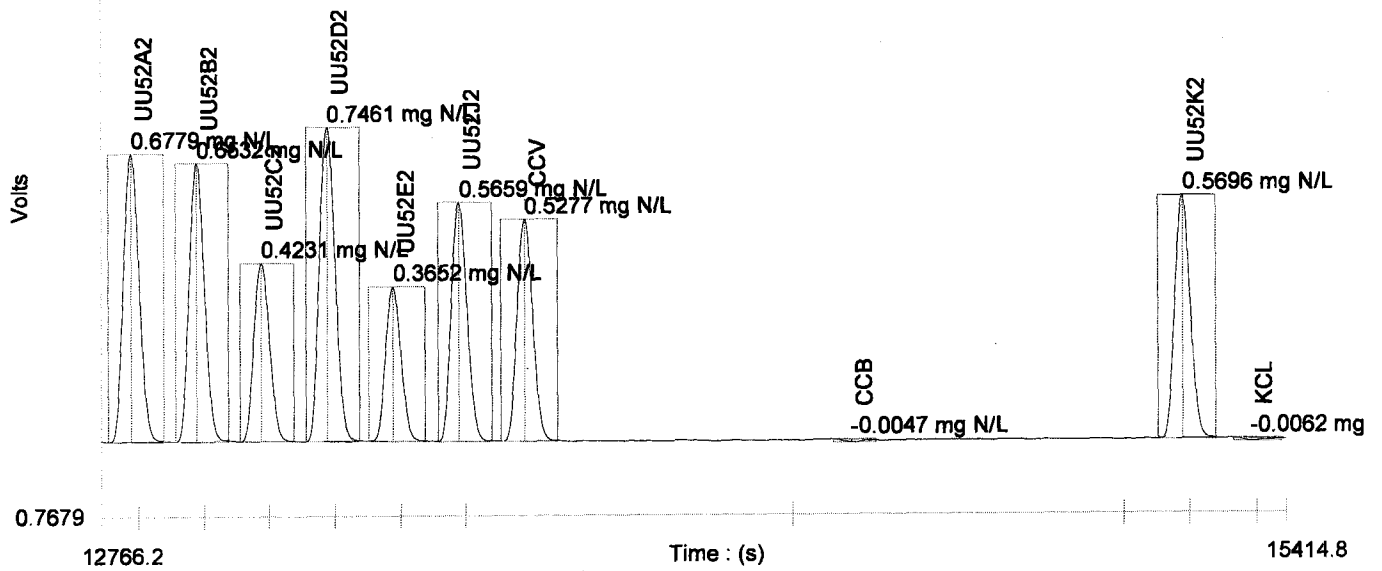


Channel 1 - Set: 5 / 7



Channel 1 - Set: 6 / 7

2.2668



Channel 1 - Set: 7 / 7

2.2668

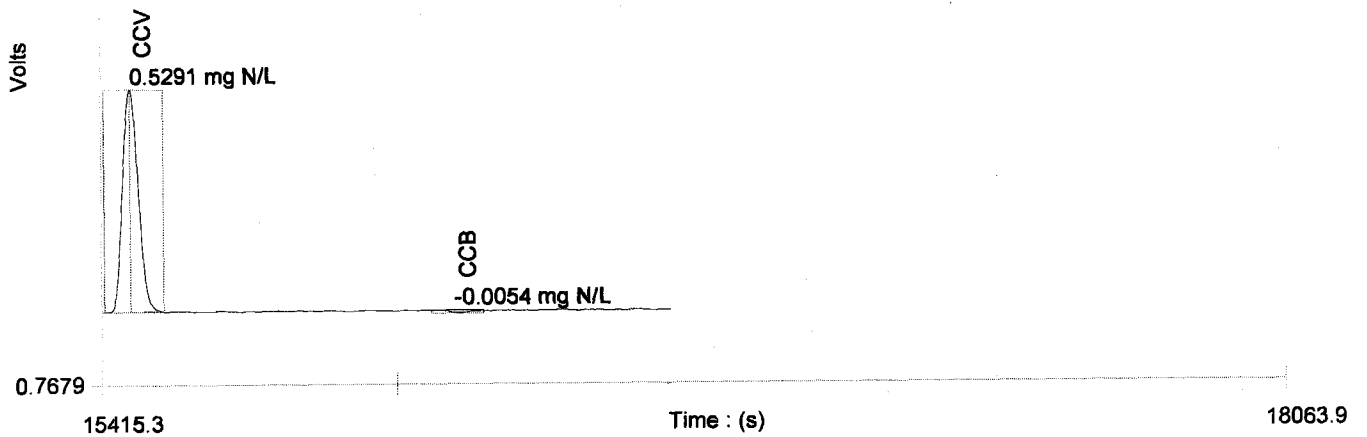
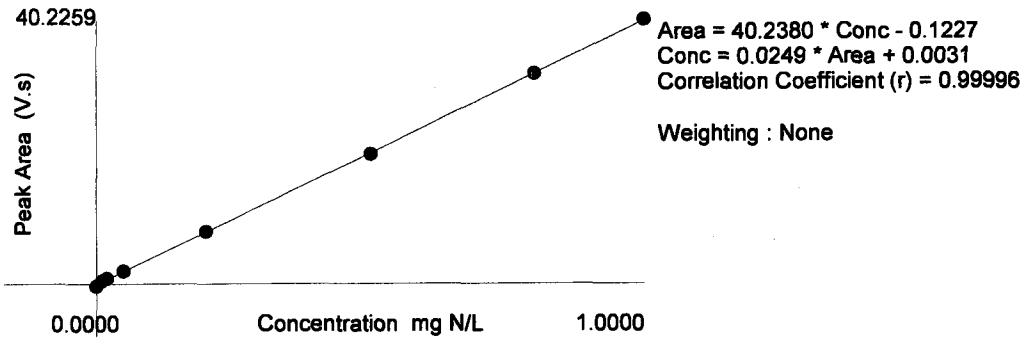


Table : 1 (NH3)

| | Known Conc. (mg N/L) | Rep. | Peak Area (V.s) | Peak Height (V) | % RSD | % Residual | Det. Conc (mg N/L) | Detection Date | Detection Time |
|---|-------------------------|------|--------------------|--------------------|-------|------------|-----------------------|----------------|----------------|
| 1 | 1.0000 | 1 | 40.2259 | 0.9906 | 0.0 | -0.3 | 1.0027 | 5/21/2012 | 12:48:09 PM |
| 2 | 0.8000 | 1 | 32.0222 | 0.7910 | 0.0 | 0.1 | 0.7988 | 5/21/2012 | 12:49:20 PM |
| 3 | 0.5000 | 1 | 19.8143 | 0.4876 | 0.0 | 0.9 | 0.4955 | 5/21/2012 | 12:50:30 PM |
| 4 | 0.2000 | 1 | 7.9810 | 0.1977 | 0.0 | -0.7 | 0.2014 | 5/21/2012 | 12:51:40 PM |
| 5 | 0.0500 | 1 | 1.9237 | 0.0467 | 0.0 | -1.8 | 0.0509 | 5/21/2012 | 12:52:50 PM |
| 6 | 0.0200 | 1 | 0.8151 | 0.0212 | 0.0 | -19.5 | 0.0233 | 5/21/2012 | 12:54:01 PM |
| 7 | 0.0100 | 1 | 0.4091 | 0.0114 | 0.0 | -46.3 | 0.0132 | 5/21/2012 | 12:55:11 PM |
| 8 | 0.0000 | 1 | -0.3586 | -0.0067 | | | -0.0058 | 5/21/2012 | 12:56:21 PM |

Figure : 1 (NH3)



Handwritten signature

| | | |
|--|---------------|---------|
| SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2) Soils, sediments and solid phase samples | Date/Time | Analyst |
| | 5/18/12 8:40 | CLH/CR |
| | 5/18/12 17:31 | CLH/CR |

If distilled, specify Procedure: PSEP

| | | | |
|---|--|---|---|
| 1. Standardization of sodium thiosulfate titrant | | Buret used for titrations: <u>CLASS A GLASS S2</u> | |
| Thiosulfate ID: <u>9237C</u> | | Titration of bi-iodate with thiosulfate | |
| Bi-iodate ID: <u>8560C</u> | | mL bi-iodate = | 3.00 3.00 3.00 |
| Stock bi-iodate = <u>0.8130</u> grams to <u>1000</u> mL | | mL thiosulfate = | 3.15 3.10 3.10 |
| Normality = <u>0.025</u> | | Normality thiosulfate = (mL bi-iodate*normbio) / mL thiosulfate = | 0.024 0.024 0.024 |
| | | | 0.024 0.024 0.024 0.024 |

| | | | |
|-------------------------|--|---|---|
| 2. Normality of Iodine | | Titration of Iodine with thiosulfate | |
| Iodine ID: <u>9182C</u> | | mL iodine = | 3.00 3.00 3.00 |
| | | mL thiosulfate = | 3.05 3.05 3.05 |
| | | Normality iodine = (mL thiosulfate*nthio) / mL iodine = | 0.024 0.024 0.024 |
| | | | 0.024 0.024 0.024 0.024 |

| | | | |
|---|--|--|---|
| 3. Standardization of Sodium Sulfide Stock | | Titration of standard with thiosulfate | |
| Stock ID = <u>00122-6</u> | | mL Standard = | 1.00 1.00 1.00 |
| Approx conc in 100ml | | mL iodine = | 3.00 3.00 3.00 |
| g Na2S = <u>0.6026</u> mg/mL = <u>0.804</u> | | mL thiosulfate = | 1.40 1.40 1.40 |
| | | Sulfide (mg/mL) = ((mL iodine*ni)-(mL thio *nthio))*16 / mL standard = | 0.636 0.636 0.636 |
| | | | 0.636 0.636 0.636 0.636 |

Intermediate Standard mL required for for 0.025 mg/mL 9.8

Add 9.8 mL stk to 250 mL 0.01M NaOH = 0.025 mg/mL

| 4. Calibration Standard Curve | | | | | | | spectrophotometer used: | |
|-------------------------------|-------------------|--------------------|--------------------|-----|-----------|-------|-------------------------|--------------------------|
| Inter Std Volume (mL) | Final Volume (mL) | Calc Conc (mg S/L) | Absorbance @650 nm | | AVG ABS | mg/L | RegressionData | |
| | | | 1 | 2 | | | intercept = | slope = |
| 0.00 | 50 | 0.000 | 0.000 | | 0.000 | 0.013 | -0.010 | |
| 0.10 | 50 | 0.050 | 0.033 | | 0.033 | 0.054 | 0.794 | |
| 0.25 | 50 | 0.125 | 0.087 | | 0.087 | 0.122 | 0.9996 | |
| 0.50 | 50 | 0.249 | 0.175 | | 0.175 | 0.233 | | Comment: Calibration OK! |
| 1.00 | 50 | 0.498 | 0.381 | | 0.381 | 0.493 | | |
| 2.00 | 50 | 0.997 | 0.787 | | 0.787 | 1.004 | maxabs = | 0.787 |
| Calib Verif Std = | | 1.0 | ml INT to | 50 | ml ZnOAc= | 0.498 | mg/l | |
| Distillation Std = | | 1.0 | ml stk to | 100 | = | 6.36 | mg/l | |

SAMPLE DATA

| enter dilution as mL final/mL sample | | | | | | | | | |
|--------------------------------------|-------------------|----------|------------------|-------------------------|--------------|------------|-------------------------|-----------------|------------|
| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | | |
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 650 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) | |
| ICB | | na | na | 1.00 | Sample | Bkg | 0.013 | < 0.05 | OK! |
| ICV | | na | na | 1.00 | 0.338 | | 0.438 | 0.438 | Err @88% |
| ICV | | na | na | 1.00 | 0.347 | | 0.450 | 0.450 | 90.23% |
| Distilled samples | | | | | | | | | |
| Dist Blk | 100.0 | 100% | 100 | 1.00 | 0.004 | | 0.018 | < 0.05 | OK! |
| Dist Chk | 100.0 | 100% | 100 | 10.00 | 0.486 | | 0.625 | 6.249 | 98.28% |
| Dist Chk2 | 100.0 | 100% | 100 | 10.00 | 0.439 | | 0.566 | 5.657 | 88.97% |
| Soil Samples | | | | | | | | | |
| | (grams) | % Solids | (mL) | | Sample | Bkg | (mg/L) | mg/kg | |
| UU62A2 | 5.1130 | 10.7% | 100 | 10.00 | 0.748 | | 0.955 | 1745.335 | |
| UU62A2 dup | 5.1500 | 10.7% | 100 | 10.00 | 0.655 | | 0.838 | 1520.232 | RPD=13.79% |
| UU62A2 ms | 5.1740 | 10.7% | 100 | 20.00 | 0.880 | | 1.121 | 4050.125 | offscale |
| | Spike at | | 2.00 | ml stock to | 0.554 | g dry wt = | | 2296.959 | mg/kg |
| UU62B2 | 5.122 | 11.0% | 100 | 1.00 | 0.024 | | 0.043 | < 8.847 | |
| UU62C2 | 5.054 | 10.5% | 100 | 20.00 | 0.448 | | 0.577 | 2174.637 | |
| UU62D2 | 5.084 | 9.6% | 100 | 10.00 | 0.580 | | 0.743 | 1522.876 | |
| UU62E2 | 5.253 | 10.8% | 100 | 20.00 | 1.529 | | 1.939 | 6833.930 | offscale |
| Cal Blk | | na | na | 1.00 | -0.001 | | 0.011 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.370 | | 0.479 | 0.479 | 96.04% |

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | | |
|-----------|-------------------|----------|------------------|-------------------------|--------------|-----|-------------------------|-----------------|----------|
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 650 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) | |
| | | | | | Sample | Bkg | | | |
| UU62F2 | 5.106 | 11.0% | 100 | 10.00 | 0.947 | | 1.205 | 2146.312 | offscale |
| UU62G2 | 5.085 | 11.0% | 100 | 10.00 | 0.301 | | 0.392 | 700.565 | |
| UU62H2 | 5.139 | 7.9% | 100 | 10.00 | 0.728 | | 0.930 | 2289.928 | |
| UU62I2 | 4.754 | 11.1% | 100 | 10.00 | 1.101 | | 1.399 | 2652.930 | offscale |
| UU52A1 | 4.992 | 9.7% | 100 | 10.00 | 1.107 | | 1.407 | 2905.716 | offscale |
| UU52B1 | 5.000 | 9.7% | 100 | 10.00 | 1.155 | | 1.467 | 3025.718 | offscale |
| UU52C1 | 4.831 | 10.5% | 100 | 10.00 | 1.274 | | 1.617 | 3188.443 | offscale |
| UU52D1 | 4.564 | 10.9% | 100 | 20.00 | 0.708 | | 0.904 | 3636.264 | |
| UU52E1 | 4.824 | 10.0% | 100 | 20.00 | 0.768 | | 0.980 | 4063.213 | |
| UU52F1 | 5.100 | 8.3% | 100 | 10.00 | 0.609 | | 0.780 | 1842.161 | |
| Cal Blk | | na | na | 1.00 | -0.001 | | 0.011 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.358 | | 0.464 | 0.464 | 93.01% |
| UU52G1 | 5.154 | 6.9% | 100 | 1.00 | 0.048 | | 0.073 | 20.585 | |
| UU52H1 | 5.003 | 19.0% | 100 | 10.00 | 0.531 | | 0.682 | 716.986 | |
| UU52I1 | 5.447 | 8.1% | 100 | 10.00 | 0.610 | | 0.781 | 1770.249 | |
| UU52J1 | 5.254 | 10.6% | 100 | 10.00 | 0.749 | | 0.956 | 1716.781 | |
| UU52K1 | 5.376 | 10.5% | 100 | 20.00 | 0.445 | | 0.573 | 2030.997 | |
| UU62A2 ms | 5.1740 | 10.7% | 100 | 50.00 | 0.362 | | 0.469 | 4232.975 | 108.30% |
| | | Spike at | 2.00 | ml stock to | 0.554 | | g dry wt = | 2298.959 | mg/kg |
| UU62E2 | 5.253 | 10.8% | 100 | 50.00 | 0.391 | | 0.505 | 4452.621 | |
| UU62F2 | 5.106 | 11.0% | 100 | 20.00 | 0.465 | | 0.598 | 2130.893 | |
| UU62I2 | 4.754 | 11.1% | 100 | 20.00 | 0.610 | | 0.781 | 2960.224 | |
| UU52A1 | 4.992 | 9.7% | 100 | 20.00 | 0.558 | | 0.716 | 2955.459 | |
| Cal Blk | | na | na | 1.00 | -0.004 | | 0.008 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.347 | | 0.450 | 0.450 | 90.23% |
| UU52B1 | 5.000 | 9.7% | 100 | 20.00 | 0.587 | | 0.752 | 3101.351 | |
| UU52C1 | 4.831 | 10.5% | 100 | 20.00 | 0.463 | | 0.596 | 2349.507 | |
| Cal Blk | | na | na | 1.00 | -0.003 | | 0.009 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.348 | | 0.451 | 0.451 | 90.49% |

SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2)
Soils, sediments and solid phase samples

Date Time: 5-18-12 8:40
 Analyst: JCR
 Finish: 5-18-12 17:31
 Analyst: JCR

If distilled, specify Procedure: PCSP

1. Standardization of sodium thiosulfate titrant
 Thiosulfate ID: 91237C
 Bi-iodate ID: SS50C
 Stock bi-iodate = 0.8130 grams to 1000 mL
 Normality =
 Normality thiosulfate = (mL bi-iodate * normbio) / mL thiosulfate =

Buret used for titrations: Class A Glass J2

2. Normality of Iodine
 Iodine ID: 9182C
 Normality iodine = (mL thiosulfate * nthio) / mL iodine =

3. Standardization of Sodium Sulfide Stock
 Stock ID = 00122-6
 Approx conc in 100ml
 g Na2S = 0.6026 mg/mL =
 Sulfide (mg/mL) = ((mL iodine * ni) - (mL thio * nthio)) * 16 / mL standard =

Intermediate Standard
 Add 9.8 mL stk to 250 mL 0.01M NaOH = mg/mL

4. Calibration Standard Curve
 spectrophotometer used:

| Inter Std Volume (mL) | Final Volume (mL) | Calc Conc (mg S/L) | Absorbance @650 nm | | AVG ABS | mg/L | Regression Data | | |
|-----------------------|-------------------|--------------------|--------------------|---|---------|------|-----------------|---------|-----|
| | | | 1 | 2 | | | intercept = | slope = | r = |
| 0.00 | 50 | | 0.000 | | | | | | |
| 0.10 | 50 | | 0.033 | | | | | | |
| 0.25 | 50 | | 0.087 | | | | | | |
| 0.50 | 50 | | 0.175 | | | | | | |
| 1.00 | 50 | | 0.351 | | | | | | |
| 1.50 | 50 | | 0.789 | | | | | | |

Calib Verif Std = 0.5 ml int to 50 ml ZnOAc = mg/l
 Distillation Std = 1 ml stk to 100 = mg/l

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Dilution Factor | Spectrophotometric Data | | regressed Conc (mg S/L) | CORR CONC (ppm) | SAMPLE DATA |
|--------------|-------------------|----------|------------------|-----------------|-------------------------|-----|-------------------------|-----------------|-------------|
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | | Abs @ 650 nm | Bkg | | | |
| Soil Samples | (grams) | % Solids | (mL) | | Sample | Bkg | (mg/L) | mg/kg | |
| ICB | | | | | 0.000 | | | | |
| ICX/ICV | | | | | 0.338/0.347 | | | | |
| D. Blank | | | 100 | | 0.347/0.004 | | | | |
| LCS | | | | 10 | 0.254/0.486 | | | | |
| U022 | | | | 10 | 0.439 | | | | |
| U062A2 | S.1130 | 10.7 | | 10 | 0.748 | | | | |
| | S.150 | | | 10 | 0.655 | | | | |
| | S.174 | | | 20 | 0.850 | | | | |
| | S.122 | 11.0 | | 1 | 0.024 | | | | |
| | S.254 | 10.5 | | 20 | 0.448 | | | | |
| | S.284 | 9.6 | | 10 | 0.580 | | | | |
| | S.253 | 10.8 | | 20 | 1.529 | | | | |
| CCB | | | | | 0.001 | | | | |
| CCV | | | | | 0.370 | | | | |
| U062F2 | S.106 | 11.0 | 100 | 10 | 0.997 | | | | |
| | S.085 | 11.0 | | 13 | 0.301 | | | | |
| | S.139 | 7.9 | | 10 | 0.724 | | | | |
| | 4.755 | 11.1 | | 10 | 1.101 | | | | |
| U052A1 | 4.992 | 9.7 | | 10 | 1.107 | | | | |
| | 5.000 | 9.8 | | 10 | 1.155 | | | | |
| | 4.831 | 10.5 | | 10 | 1.274 | | | | |
| | 4.564 | 10.7 | | 20 | 0.708 | | | | |
| | 4.824 | 10.0 | | 20 | 0.768 | | | | |
| | 5.100 | 8.3 | | 10 | 0.609 | | | | |
| CCB | | | | | 0.001 | | | | |
| CCV | | | | | 0.358 | | | | |
| U052G1 | S.154 | 11.0 | 100 | 1 | 0.044 | | | | |
| | S.003 | 7.9 | | 10 | 0.531 | | | | |

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | |
|-----------|-------------------|---------------|------------------|-------------------------|--------------|-----|-------------------------|-----------------|
| | SAMPLE SIZE | % Solids @ | TRAP VOLUME (ml) | Dilution Factor | Abs @ 850 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) |
| | | | | | Sample | Bkg | | |
| UU5211 | 5.947 | 10.1 | 100 | 10 | 0.610 | | | |
| ↓ J1 | 5.254 | 10.6 | | 10 | 0.349 | | | |
| ↓ E1 | 5.376 | 10.5 | | 20 | 0.445 | | | |
| UU5211 | 5.1740 | 10.7 | | 20.50 | 0.362 | | | |
| ↓ E2 | 5.253 | 10.8 | | 50 | 0.351 | | | |
| ↓ F2 | 5.106 | 11.0 | | 50.20 | 0.465 | | | |
| UU5211 | 4.992 | 9.7 | | 20 | 0.558 | | | |
| CCB | | | | 20 | -0.004 | | | |
| COV | | | | | 0.343 | | | |
| UU5281 | 5.000 | 9.7 | 100 | 20 | 0.587 | | | |
| ↓ C1 | 4.831 | 10.5 | | 20 | 0.463 | | | |
| CCB | | | | | -0.003 | | | |
| COV | | | | | 0.348 | | | |
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Analytical Resources, Incorporated
Analytical Chemists and Consultants

Sulfide Digestion Log

| Pretreatment Data | | | | | | | | | | Sample Extraction Data | | | | |
|-------------------|----------|---------|---------|---------------|-----------------|--------|-------------|-------------|------------------|------------------------|---------------|------------------|----------------------|------------------|
| Sample ID | % Solids | % Water | Date | Sample Weight | Extract Method* | Acid | Required pH | mL DI Water | Observed mL acid | Date | Sample Weight | mL Acid Required | mL DI Water Required | Trap Volume (mL) |
| PB | | | 5-18-12 | ND | PSEP | HCl/AI | < 3 | NA | NA | 5-18-12 | 100ml | NA | NA | 100ml |
| ZCS | | | | | | | | | | | | | | |
| UUGZ 12 | 10.7 | | | | | | | | | | 5.113 | | 50ml | |
| AZ 000 | | | | | | | | | | | 5.150 | | | |
| AZ 003 | | | | | | | | | | | 5.174 | | | |
| BZ | 17.0 | | | | | | | | | | 5.122 | | | |
| CE | 10.5 | | | | | | | | | | 5.054 | | | |
| DZ | 9.6 | | | | | | | | | | 5.084 | | | |
| EZ | 10.8 | | | | | | | | | | 5.253 | | | |
| FE | 11.0 | | | | | | | | | | 5.106 | | | |
| GE | 11.0 | | | | | | | | | | 5.085 | | | |
| HE | 7.9 | | | | | | | | | | 5.139 | | | |
| IZ | 11.1 | | | | | | | | | | 4.754 | | | |
| UUSZ AZ | 9.7 | | | | | | | | | | 4.992 | | | |
| BZ | 9.7 | | | | | | | | | | 5.000 | | | |
| CE | 10.5 | | | | | | | | | | 4.831 | | | |
| DZ | 10.9 | | | | | | | | | | 4.564 | | | |
| EZ | 10.0 | | | | | | | | | | 4.824 | | | |
| AZFI | 8.3 | | | | | | | | | | 5.100 | | | |
| GL61 | 6.9 | | | | | | | | | | 5.154 | | | |

1 ml
NA
0012-6
2M2

UUSZ: 012262

* Extract Methods: PSEP = PSEP; 9030A = 9030A Acid Soluble; 9030AI = 9030A acid insoluble; AVS = Acid Volatile; Reactive = SW-846 reactive

Analyst Name:

Date: 5-18-12

Time: 8:40



Sulfide Digestion Log

| Pretreatment Data | | | | | | | | | | Sample Extraction Data | | | | |
|-------------------|----------|---------|---------|---------------|-----------------|-----------|-------------|-------------|------------------|------------------------|---------------|------------------|----------------------|------------------|
| Sample ID | % Solids | % Water | Date | Sample Weight | Extract Method* | Acid | Required pH | mL DI Water | Observed mL acid | Date | Sample Weight | mL Acid Required | mL DI Water Required | Trap Volume (mL) |
| HEA1 | 19.0 | | 5-18-12 | NA | PSEP | HCl/Water | 4.3 | NA | NA | 5-18-12 | 5.003 | NA | 50ml | 100ml |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.247 | ↓ | ↓ | ↓ |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.254 | ↓ | ↓ | ↓ |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.376 | ↓ | ↓ | ↓ |
| LCS 2* | | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 100ml | ↓ | NA | ↓ |

1 ml Stk

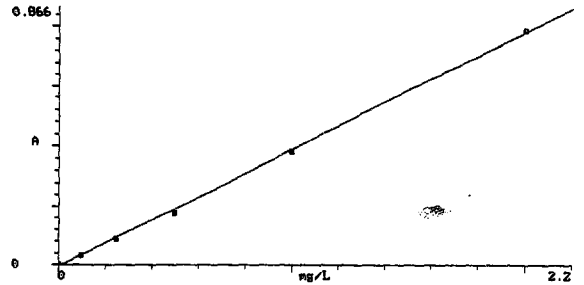
* Extract Methods: PSEP = PSEP; 9030A = 9030A Acid Soluble; 9030AI = 9030A acid insoluble; AVS = Acid Volatile; Reactive = SW-846 reactive

Analyst Name: _____ Date: _____ Time: _____

JUS2: 02203

TEST SETUP
GENESYS 10 v2.021 2G2G048006

Standard Curve 17:31 18May12
 Test Name SULFIDE[Saved]
 Date Standards Measured 18May12
 Wavelength 650nm
 Ref. Wavelength Correction Off
 Curve Fit Linear
 Number of Standards 6
 Units mg/L
 ID# (0=OFF) Off
 Low/High Limits 0.050/1.000
 Statistics Off
 Auto Print On



Curve Fit Linear
 Slope 0.396
 Intercept -0.0101
 Std Dev 0.009
 Corr Coeff 1.000

| Conc. mg/L | Abs 650nm |
|---------------|--------------|
| 0.000 | 0.000 |
| 0.100 | 0.033 |
| 0.250 | 0.087 |
| 0.500 | 0.175 |
| 1.000 | 0.381 |
| 2.000 | 0.787 |

OK
5-18-12

TEST SETUP
GENESYS 10 v2.021 2G2G048006

Advanced A-%T-C 17:32 18May12
 Test Name SULFIDE[Saved]
 Measurement Mode Absorbance
 Wavelength 650nm
 Ref. Wavelength Correction Off
 Delay Time (min:sec) 0:00
 ID# (0=OFF) 1
 Low/High Limits 0.000/1.000
 Statistics Off
 Auto Print On

| ID# | Abs 650nm |
|-----|--------------|
| 1 | 0.000 |

2 0.338

3 0.347

4 0.004

5 0.486

6 0.439

7 0.748

8 0.655

9 0.880

10 0.024

11 0.448

12 0.580

13 1.529

14 -0.001

15 0.370

16 0.947

17 0.301

18 0.728

19 1.101

20 1.107

21 1.155

22 1.274

23 0.708

24 0.768

25 0.609

26 -0.001

27 0.358

28 0.048

29 0.531

30 0.610

31 0.749

32 0.445

33 0.362

34 0.391

35 0.465

36 0.610

37 0.558

38 -0.004

39 0.347

40 0.587

41 0.463

42 -0.003

43 0.348

TOC, Solids Data Analysis

Instrument: Apollo 2
 Mode: NPOC Inlet: Boat
 Spike Std = 2,500 ppm C

DATE: 5/24/2012
 ANALYST: KE 11:48

Calibration Data

Cal Curve ID: 4/30/12 BOAT CAL Conc: 5,000 ppm
 Calibration Curve Standard: 00123 - 4 Curve Date: 04/30/12
 CalFact: 2.796E+05 intercept: -226534 r2: 0.99943
 Curve Range (ppm) 200 to 2,500
 Curve Range (µgC): 8 to 100 40 µL injections of designated standard

Verification Standard

Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm
 dilution : 10 mL to 50 1,000 ppm

Standard Reference Material

Source: NIST 8704 Conc: 33,510 ppm
 Source: NIST 1941B Conc: 29,900 ppm

Silica Blanks

| Replicate determinations | | | | | Mean | RSD | condition |
|--------------------------|------|------|--|--|------|-------|-----------|
| 18.8 | 26.7 | 31.6 | | | 25.7 | 25.1% | OK |

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

| Sample ID | Dilution Data | | | | Spike (µL Std) | Combustion Data | | | comments |
|-----------------------|-----------------|----------------|------------|-----------------|----------------|-----------------|---------------|----------------|------------------|
| | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor | | Burn wt. (mg) | C obs (ppm C) | C corr (ppm C) | |
| ICV | | | | 1.00 | | 40.0 | 971 | 971 | 97.10% |
| Blank | | | | 1.00 | | 40.0 | 24.77 | 25 | Blank OK |
| NIST 1941B | | | | 1.00 | | 3.5 | 29334 | 29,334 | Offscale, dilute |
| NIST 1941B | | | | 1.00 | | 2.8 | 27419 | 27,419 | 91.70% |
| UU62 A1 | | | | 1.00 | | 0.8 | 129030 | 129,030 | Offscale, dilute |
| Silica Blanks 1 | | | | 1.00 | | 36.0 | 18.81 | 19 | Low Scale |
| Silica Blanks 2 | | | | 1.00 | | 36.5 | 26.65 | 27 | Low Scale |
| Silica Blanks 3 | | | | 1.00 | | 34.3 | 31.6 | 32 | Low Scale |
| UU62 A1 | 10.0 | 100.0 | 90.00% | 10.00 | | 1.8 | 14036 | 140,129 | Range OK! |
| UU62 A1 dup | 10.4 | 104.0 | 90.00% | 10.00 | | 1.7 | 13357 | 133,339 | RPD=5% |
| UU62 A1 trp | 10.1 | 100.2 | 89.92% | 9.92 | | 1.9 | 14320 | 141,837 | RSD=3.2% |
| UU62 A1 ms | 10.0 | 100.0 | 90.00% | 10.00 | 10 | 1.5 | 34016 | 339,929 | Range OK! |
| Spike = 0.025 mg C to | | 0.2 mg samp= | | 166,667 ppm | | 120% | | | |
| CCV | | | | 1.00 | | 40.0 | 1001 | 1,001 | 100.10% |
| Blank | | | | 1.00 | | 40.0 | 57.85 | 58 | Blank OK |

| Sample Data | | | | | | | | | |
|---|--------------------|-------------------|---------------|--------------------|-------------------------|------------------|------------------|-------------------|-----------|
| "C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor | | | | | | | | | |
| Sample ID | Dilution Data | | | | Spike (μ L Std) | Combustion Data | | | comments |
| | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor | | Burn wt. (mg) | C obs (ppm C) | C corr (ppm C) | |
| UU62 B1 | 11.1 | 109.7 | 89.88% | 9.88 | | 0.9 | 32808 | 324,009 | Range OK! |
| UU62 C1 | 11.8 | 117.5 | 89.96% | 9.96 | | 1.3 | 20861 | 207,496 | Range OK! |
| UU62 D1 | 10.7 | 104.2 | 89.73% | 9.74 | | 1.2 | 17437 | 169,583 | Range OK! |
| UU62 E1 | 12.2 | 117.3 | 89.60% | 9.61 | | 1.8 | 16031 | 153,913 | Range OK! |
| UU62 F1 | 11.3 | 112.6 | 89.96% | 9.96 | | 1.4 | 13041 | 129,718 | Range OK! |
| UU62 G1 | 11.2 | 109.1 | 89.73% | 9.74 | | 1.6 | 16535 | 160,844 | Range OK! |
| UU62 H1 | 11.6 | 113.7 | 89.80% | 9.80 | | 1.8 | 20591 | 201,601 | Range OK! |
| UU62 I 1 | 11.2 | 111.3 | 89.94% | 9.94 | | 1.5 | 16041 | 159,178 | Range OK! |
| UU52 A1 | 14.6 | 141.1 | 89.65% | 9.66 | | 1.9 | 18666 | 180,173 | Range OK! |
| UU52 B1 | 11.9 | 110.8 | 89.26% | 9.31 | | 1.5 | 18166 | 168,929 | Range OK! |
| CCV | | | | 1.00 | | 40.0 | 956 | 956 | 95.60% |
| Blank | | | | 1.00 | | 40.0 | 24.33 | 24 | Blank OK |
| UU52 C1 | 12.3 | 119.8 | 89.73% | 9.74 | | 1.8 | 15684 | 152,535 | Range OK! |
| UU52 D1 | 10.4 | 103.6 | 89.96% | 9.96 | | 1.3 | 20977 | 208,733 | Range OK! |
| UU52 E1 | 23.7 | 216.8 | 89.07% | 9.15 | | 1.8 | 18284 | 167,047 | Range OK! |
| UU52 F1 | 12.7 | 121.4 | 89.54% | 9.56 | | 1.8 | 32095 | 306,578 | Range OK! |
| UU52 G1 | 10.3 | 107.5 | 90.42% | 10.44 | | 1.7 | 30151 | 314,440 | Range OK! |
| UU52 H1 | 16.4 | 161.6 | 89.85% | 9.85 | | 1.1 | 15836 | 155,815 | Range OK! |
| UU52 I 1 | 10.2 | 102.0 | 90.00% | 10.00 | | 1.1 | 19014 | 189,909 | Range OK! |
| UU52 J 1 | 10.9 | 103.6 | 89.48% | 9.50 | | 2.2 | 11417 | 108,295 | Range OK! |
| UU52 K1 | 13.7 | 112.8 | 87.85% | 8.23 | | 1.4 | 13394 | 110,095 | Range OK! |
| US34 L (PE) | | | | 1.00 | | 8.8 | 8809 | 8,809 | Range OK! |
| NIST 1941B | | | | 1.00 | | 3.1 | 31263 | 31,263 | 104.56% |
| CCV | | | | 1.00 | | 40.0 | 973 | 973 | 97.30% |
| Blank | | | | 1.00 | | 40.0 | 25.70 | 26 | Blank OK |



① 5-24-12 ④

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 2

| Set-Up Parameters MODE: NPOC | | | | INLET: Boat Sampler | | |
|------------------------------|--------------------|--------------|----------------------|---------------------|----------|------------------|
| Standards: | Source | | Conc (ppm) | | | |
| Calibration: | ARI - 00123-4 | | 5000 | | | |
| Verification: | ERA - 1513-10-06 | | 5000 to 1000 for CVS | | | |
| SRM: | NBS 1941b or 8704 | | 299.00 | | | |
| Sample Sequence: | | | | | | |
| Sample ID | Dilution Data (mg) | | Burn Wt | Matrix Spike Data | | Comments |
| | Sample | + Silica Gel | mg | mg/L | µL added | |
| 100 | | | 40 | | | |
| 100 | | | 40 | | | |
| NBS 1941B | | | 3.5 | | | off scale Relate |
| NBS 1941B | | | 2.8 | | | |
| UU62 A' | | | 0.8 | | | off scale Relate |
| SB 1 | | | 36.0 | | | |
| ↓ 2 | | | 36.5 | | | |
| ↓ 3 | | | 34.3 | | | |
| UU62 A' | 10.0 | 100.0 | 1.8 | | | |
| ↓ OPA' | 10.4 | 104.0 | 1.7 | | | |
| ↓ 4PA' | 10.1 | 100.2 | 1.9 | | | |
| ↓ MSA' | 10.0 | 100.0 | 1.5 | 2500 | 10 | |
| CUW | | | 40 | | | |
| CCB | | | 40 | | | |
| UU62 B' | 11.1 | 109.7 | 0.9 | | | |
| ↓ C' | 11.8 | 117.8 | 1.3 | | | |
| ↓ D' | 10.7 | 104.2 | 1.2 | | | |
| ↓ E' | 12.2 | 117.3 | 1.8 | | | |
| ↓ F' | 11.3 | 112.6 | 1.4 | | | |
| ↓ G' | 11.2 | 109.1 | 1.6 | | | |
| ↓ H' | 11.6 | 113.7 | 1.8 | | | |
| ↓ I' | 11.2 | 111.3 | 1.5 | | | |
| UU52 A' | 14.6 | 141.1 | 1.9 | | | |
| ↓ B' | 11.9 | 110.9 | 1.5 | | | |
| CUW | | | 40 | | | |
| CCB | | | 40 | | | |
| UU52 C' | 12.3 | 119.8 | 1.8 | | | |
| ↓ D' | 10.4 | 103.6 | 1.3 | | | |
| ↓ E' | 23.7 | 216.8 | 1.8 | | | |
| ↓ F' | 12.7 | 121.4 | 1.8 | | | |
| ↓ G' | 10.3 | 107.5 | 1.7 | | | |
| ↓ H' | 11.4 | 111.6 | 1.1 | | | |

11:48



① 5-24-12 (W)

TOC Solids Sample Run Log
Apollo 9000

Page 2 of 2

| | | |
|------------------------------|-------------------|----------------------|
| Set-Up Parameters MODE: NPOC | | INLET: Boat Sampler |
| Standards: | Source | Conc (ppm) |
| Calibration: | ARI - 00123-4 | 5000 |
| Verification: | ERA - 1513-10-06 | 5000 to 1000 for CVS |
| SRM: | NBS 1941b or 8704 | 299.00 |

11:48

Sample Sequence:

| Sample ID | Dilution Data (mg) | | Burn Wt mg | Matrix Spike Data | | Comments |
|-------------|--------------------|--------------|---------------|-------------------|----------|----------|
| | Sample | + Silica Gel | | mg/L | µL added | |
| WU52 J | 10.2 | 102.0 | 1.1 | | | |
| J' | 10.9 | 103.6 | 2.2 | | | |
| K | 13.7 | 112.8 | 1.4 | | | |
| WS34 (P) L | | | 8.8 | | | |
| NB19 (M) B | | | 3.1 | | | |
| CEW | | 400 | 40 | | | |
| CEB | | 400 | 40 | | | |
| 5-24-12 (W) | | | | | | |

524-12 (u)

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241136
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 11:41
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 971.3245 | 38.8530 | 10637403 | 37.141 | 38.137 | 184 |

Last Message: ~~Out of Calibration~~ OK 5-24-12

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241144
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 11:47
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 24.7707 | 0.9908 | 50518 | 36.955 | 36.934 | 120 |

Last Message: Low Sample Detected

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 05241227
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 12:32
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|----------|----------|--------------------|-----------------|------------------|
| 1 | 29334.1992 | 102.6697 | 28481616 | 36.810 | 37.807 | 277 |

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 05241251
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 12:57
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 27418.7734 | 76.7726 | 21240346 | 36.996 | 37.994 | 270 |

Sample ID: UU62 A1 Mode: TOC
Method: Boat Sampler Filename: 05241308
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:23
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------------|----------|----------|--------------------|-----------------|------------------|
| 1 | 129029.6562 | 103.2237 | 28863064 | 36.915 | 37.913 | 241 |

Last Message: Over-range

Sample ID: Silica Blank 1 Mode: TOC
Method: Boat Sampler Filename: 05241334
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:38
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 18.8074 | 0.6771 | 189319 | 36.892 | 37.892 | 62 |

Sample ID: Silica Blank 2 Mode: TOC
Method: Boat Sampler Filename: 05241345
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:48

Operator ID: TRINA

Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 26.6516 | 0.9728 | 272007 | 37.228 | 38.219 | 68 |

Sample ID: Silica Blank 3
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241359
Timestamp: 2012/05/24 14:01
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 31.5980 | 1.0838 | 303052 | 37.059 | 38.056 | 66 |

Sample ID: UU62 A1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241449
Timestamp: 2012/05/24 14:53
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 14035.7002 | 25.2643 | 7064306 | 37.097 | 38.096 | 174 |

Sample ID: UU62 A1 ^{DA}
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241457
Timestamp: 2012/05/24 15:02
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 13356.9072 | 22.7067 | 6349181 | 37.286 | 38.280 | 159 |

Sample ID: UU62 A1 ^{DA}
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241520
Timestamp: 2012/05/24 15:23
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 14319.8271 | 27.2077 | 7607715 | 37.403 | 38.397 | 166 |

Sample ID: UU62 A1 MS
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241527
Timestamp: 2012/05/24 15:31
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 34015.6445 | 51.0235 | 14267006 | 37.298 | 38.295 | 211 |

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241537
Timestamp: 2012/05/24 15:41
Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 1001.3187 | 40.0527 | 10972878 | 37.392 | 38.390 | 178 |

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241548
Timestamp: 2012/05/24 15:51
Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 57.8453 | 2.3138 | 420446 | 37.024 | 38.019 | 67 |

Sample ID: UU62 B1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241558
Timestamp: 2012/05/24 16:02
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 32808.4688 | 29.5276 | 8256412 | 36.857 | 37.853 | 169 |

Sample ID: UU62 C1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241622
Timestamp: 2012/05/24 16:26
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 20860.7637 | 27.1190 | 7582919 | 36.683 | 37.674 | 175 |

Sample ID: UU62 D1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241630
Timestamp: 2012/05/24 16:34
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 17437.0371 | 20.9244 | 5850821 | 36.974 | 37.972 | 165 |

Sample ID: UU62 **E1**
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241640
Timestamp: 2012/05/24 16:49
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 16030.5889 | 28.8551 | 8068353 | 37.345 | 38.344 | 187 |

Sample ID: UU62 F1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241652
Timestamp: 2012/05/24 16:56
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 13040.6104 | 18.2569 | 5104919 | 37.690 | 38.686 | 147 |

Sample ID: UU62 G1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241659
Timestamp: 2012/05/24 17:03
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 16535.1309 | 26.4562 | 7397594 | 37.853 | 38.852 | 160 |

Sample ID: UU62 H1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 05241707
Timestamp: 2012/05/24 17:11
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 20591.4219 | 37.0646 | 10363864 | 37.683 | 38.679 | 177 |

Sample ID: UU62 I 1 Mode: TOC
Method: Boat Sampler Filename: 05241715
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:18
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 16040.7617 | 24.0611 | 6727894 | 37.313 | 38.303 | 157 |

Sample ID: UU52 A1 Mode: TOC
Method: Boat Sampler Filename: 05241723
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:27
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18665.8730 | 35.4652 | 9916646 | 36.955 | 37.949 | 184 |

Sample ID: UU52 B1 Mode: TOC
Method: Boat Sampler Filename: 05241730
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:34
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18165.8848 | 27.2488 | 7619224 | 36.825 | 37.824 | 175 |

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 05241739
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:43
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 956.1100 | 38.2444 | 10467234 | 36.809 | 37.808 | 179 |

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241746
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:51
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 24.3262 | 0.9730 | 45546 | 36.453 | 36.455 | 120 |

Last Message: Low Sample Detected

Sample ID: UU52 C1 Mode: TOC
Method: Boat Sampler Filename: 05241753
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:56
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 15683.7822 | 28.2308 | 7893802 | 36.443 | 37.437 | 160 |

Sample ID: UU52 D1 Mode: TOC
Method: Boat Sampler Filename: 05241758
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 18:01
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 20976.8145 | 27.2699 | 7625104 | 37.007 | 38.004 | 143 |

Sample ID: UU52 E1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241807
 Timestamp: 2012/05/24 18:10
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18284.0977 | 32.9114 | 9202566 | 36.346 | 37.343 | 177 |

Sample ID: UU52 F1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241813
 Timestamp: 2012/05/24 18:18
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 32095.4609 | 57.7718 | 16153960 | 36.423 | 37.419 | 204 |

Sample ID: UU52 G1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241820
 Timestamp: 2012/05/24 18:25
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 30150.9082 | 51.2565 | 14332179 | 36.400 | 37.398 | 233 |

Sample ID: UU52 H1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241827
 Timestamp: 2012/05/24 18:31
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 15836.4854 | 17.4201 | 4870958 | 36.736 | 37.736 | 130 |

Sample ID: UU52 I 1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241833
 Timestamp: 2012/05/24 18:37
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 19014.4082 | 20.9158 | 5848418 | 36.683 | 37.682 | 145 |

Sample ID: UU52 J1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241841
 Timestamp: 2012/05/24 18:46
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 11417.4170 | 25.1183 | 7023497 | 36.703 | 37.703 | 154 |

Sample ID: UU52 K1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241851
 Timestamp: 2012/05/24 18:54
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 13394.1924 | 18.7519 | 5243333 | 36.458 | 37.458 | 147 |

Sample ID: US34 L (PE) Mode: TOC
 Method: Boat Sampler Filename: 05241857
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:02
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 8809.4980 | 77.5236 | 21676876 | 36.423 | 37.421 | 281 |

Sample ID: NBS 1941B Mode: TOC
 Method: Boat Sampler Filename: 05241910
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:15
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 31263.0469 | 96.9154 | 26872630 | 36.223 | 37.220 | 251 |

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 05241918
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:22
 Operator ID: TRINA Sample Type: Cal. Verification

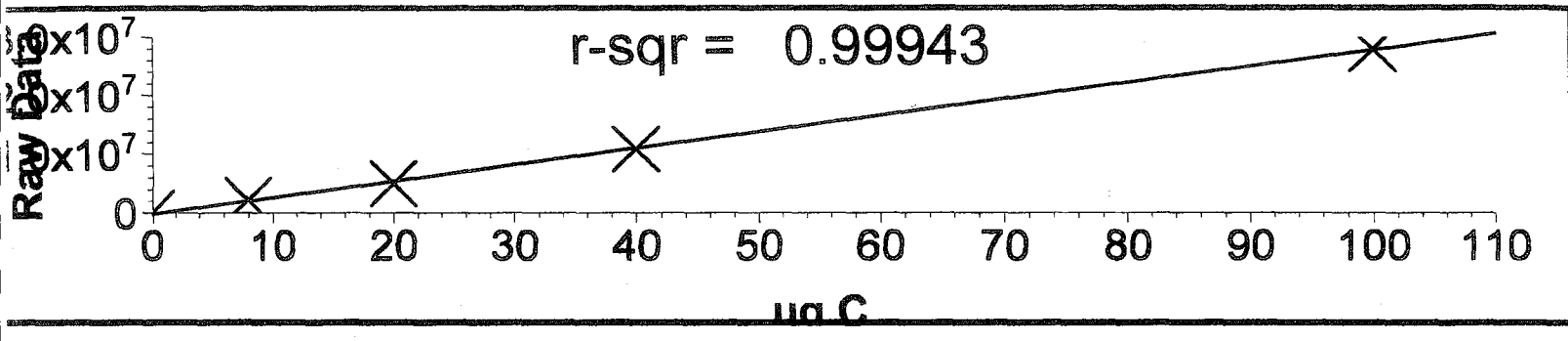
| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 973.2827 | 38.9313 | 10659304 | 36.274 | 37.273 | 176 |

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 05241923
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:25
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 25.7007 | 1.0280 | 60920 | 35.814 | 36.813 | 50 |

Cal. Curve ID: 43012 BOAT CAL
 Created: 2012/04/30 13:43
 Calibration Factor (m): 2.796e+05
 Y Intercept (b): -226534
 r-squared: 0.99943

| Standard ID | Y | X Expected | Measured | Message | Date & Time |
|-------------|----------|------------|----------|---------------|------------------|
| DI WATER | 52595 | 0.000 | 0.998 | | 2012/04/30 11:58 |
| 200 | 2144822 | 8.000 | 8.481 | | 2012/04/30 12:17 |
| 500 | 4986789 | 20.000 | 18.645 | | 2012/04/30 12:34 |
| 1000 | 10792143 | 40.000 | 39.406 | | 2012/04/30 12:59 |
| 2500 | 27866566 | 100.000 | 100.470 | Max Integrati | 2012/04/30 13:42 |



```

=====
Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:   04301036
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 10:51
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 47566 | 33.280 | 33.185 | 120 |
| 2 | | | 203139 | 33.304 | 34.302 | 63 |
| 3 | | | 1104 | 33.476 | 33.511 | 120 |

```

-----
Last Message: Low Sample Detected
<<<Statistics>>> Mean: 83936 Std Dev: 105814 RSD: 126.06
=====
    
```

```

Sample ID:  200                Mode:      TOC
Method:     Boat Sampler       Filename:   04301053
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 10:56
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 1241941 | 33.597 | 34.592 | 83 |

```

=====
Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:   04301141
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 11:43
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 723490 | 34.109 | 41.661 | 46 |

```

-----
Last Message: Canceled
=====
    
```

```

Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:   04301150
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 11:58
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 92631 | 34.301 | 35.189 | 120 |
| 2 | | | 19076 | 34.635 | 34.665 | 120 |
| 3 | | | 46077 | 35.023 | 36.011 | 43 |

```

-----
Last Message: Low Sample Detected
<<<Statistics>>> Mean: 52595 Std Dev: 37208 RSD: 70.75
=====
    
```

```

Sample ID:  200                Mode:      TOC
Method:     Boat Sampler       Filename:   04301202
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 12:17
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 2354047 | 34.824 | 35.822 | 117 |
| 2 | | | 2071224 | 34.958 | 35.956 | 106 |
| 3 | | | 2009197 | 35.047 | 36.046 | 100 |

```

-----
<<<Statistics>>> Mean: 2144823 Std Dev: 183829 RSD: 8.57
=====
    
```

```

Sample ID:  500                Mode:      TOC
Method:     Boat Sampler       Filename:   04301220
Cal. Curve: 43012 BOAT CAL     Timestamp: 2012/04/30 12:34
Operator ID: TRINA             Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 5039759 | 35.057 | 36.056 | 104 |
| 2 | | | 4609986 | 35.167 | 36.164 | 123 |
| 3 | | | 5310623 | 35.293 | 36.291 | 131 |

=====
 <<<Statistics>>> Mean: 4986790 Std Dev: 353309 RSD: 7.08
 =====

Sample ID: 1000 Mode: TOC
 Method: Boat Sampler Filename: 04301241
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 12:59
 Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 10754481 | 35.424 | 36.423 | 161 |
| 2 | | | 10442873 | 36.018 | 37.015 | 150 |
| 3 | | | 11179075 | 36.556 | 37.551 | 190 |

=====
 <<<Statistics>>> Mean: 10792143 Std Dev: 369543 RSD: 3.42
 =====

Sample ID: 2500 Mode: TOC
 Method: Boat Sampler Filename: 04301309
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:42
 Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 29661636 | 37.962 | 38.960 | 254 |
| 2 | | | 29032984 | 38.591 | 39.586 | 273 |
| 3 | | | 24905076 | 39.615 | 40.673 | 300 |

Last Message: Max Integration Time Reached
 <<<Statistics>>> Mean: 27866566 Std Dev: 2583915 RSD: 9.27
 =====

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 04301346
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:51
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 1028.4240 | 41.1370 | 11276042 | 40.270 | 41.269 | 235 |

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 04301352
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:55
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 23.6818 | 0.9473 | 38339 | 40.923 | 41.149 | 120 |

Last Message: Low Sample Detected
 =====

Handwritten signature/initials

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 5/22/2012

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

ANALYST: KE 19:59 (A)

Instrumentation **Drying Ovens:** 12
Muffle Furnace: N/A

Analytical Balance: 1123230597

| | | | | | | | | | | |
|--------------------------------|-------------------|----|--|--|--|--|--|--|--|--|
| Batch drying time | | | TS (%) calculated as: | | | | TVS (mg/kg dry wt) calculated as: | | | |
| record times as mm/dd/yy hh:mm | | | Final dry wt (g) = (Dry Wt - Tare Wt) | | | | Final ash wt (g) = (min ash wt - tare wt) | | | |
| 5/22/2012 19:59 | date/time in oven | KE | TS = (Final Dry Wt)/ (grams Sample-Tare) | | | | TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000 | | | |
| 5/23/2012 11:24 | date/time out | KE | | | | | if ash wt > dry wt, "Chk for Err" | | | |
| elapsed hrs = 15.4 | | | | | | | if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000" | | | |

| | | | | | | | | | | |
|----------------------------|------------------|------------------|------------------|-------|--|--|--|--|--|--|
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | | | |
| Date & Time | 5/22/12 14:10 KE | 5/22/12 13:10 KE | 5/23/12 11:39 KE | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | | | | | | | |
| record weights to 4 places | Cal OKI | Cal OKI | Cal OKI | | | | | | | |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | Ash Wt (g) | TVS (mg/kg) (%) | |
|-------------|--------|----------------|-----------------|---------------------|--|--|------------|--------|---------------------|---|------------|-----------------|--|
| | | | | 1 | | | | | 1 | 2 | | | |
| Blank | | | 1.0920 | 1.0919 | | | 0.00 | | | | | | |
| UU52 A1 | | 6.4621 | 1.0627 | 1.6154 | | | 0.55 | 10.2% | | | | | |
| UU52 B1 | | 6.2811 | 1.0880 | 1.6202 | | | 0.53 | 10.2% | | | | | |
| UU52 C1 | | 6.7227 | 1.0774 | 1.6636 | | | 0.59 | 10.4% | | | | | |
| UU52 D1 | | 6.6617 | 1.1141 | 1.6305 | | | 0.52 | 9.3% | | | | | |
| UU52 E1 | | 6.5580 | 1.1073 | 1.6687 | | | 0.56 | 10.3% | | | | | |
| UU52 F1 | | 6.9637 | 1.0952 | 1.6367 | | | 0.54 | 9.2% | | | | | |
| UU52 G1 | | 6.2645 | 1.0996 | 1.6055 | | | 0.51 | 9.8% | | | | | |
| UU52 H1 | | 6.3479 | 1.0822 | 1.9688 | | | 0.89 | 16.8% | | | | | |
| UU52 I 1 | | 6.0304 | 1.0868 | 1.6179 | | | 0.53 | 10.7% | | | | | |
| UU52 J 1 | | 7.4572 | 1.0873 | 1.7334 | | | 0.65 | 10.1% | | | | | |
| UU62 A1 | | 5.7385 | 1.1214 | 1.6022 | | | 0.48 | 10.4% | | | | | |
| UU62 A1 dup | | 5.9644 | 1.0850 | 1.5891 | | | 0.50 | 10.3% | | | | | |

RPD = 0.79% RPD = NA

| | | | | | | | | | | | | | |
|-------------|--|--------|--------|--------|--|--|------|-------|--|--|--|--|--|
| UU62 A1 trp | | 5.8348 | 1.0790 | 1.5736 | | | 0.49 | 10.4% | | | | | |
|-------------|--|--------|--------|--------|--|--|------|-------|--|--|--|--|--|

RSD = 0.42% RSD = NA

| | | | | | | | | | | | | | |
|---------|--|--------|--------|--------|--|--|------|-------|--|--|--|--|--|
| UU62 B1 | | 6.3197 | 1.0853 | 1.5963 | | | 0.51 | 9.8% | | | | | |
| UU62 B1 | | 8.1428 | 1.0999 | 1.7818 | | | 0.68 | 9.7% | | | | | |
| UU62 B1 | | 7.0330 | 1.1032 | 1.6553 | | | 0.55 | 9.3% | | | | | |
| UU62 B1 | | 7.3446 | 1.0745 | 1.6899 | | | 0.62 | 9.8% | | | | | |
| UU62 B1 | | 6.7839 | 1.1072 | 1.6913 | | | 0.58 | 10.3% | | | | | |
| UU62 B1 | | 7.1027 | 1.1112 | 1.8522 | | | 0.74 | 12.4% | | | | | |

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET DATE: 5/22/2012

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) ANALYST: KE 19:59 (A)

Instrumentation **Drying Ovens:** 12 **Analytical Balance:** 1123230597

Muffle Furnace: N/A

| | | |
|---------------------------------------|---|---|
| Batch drying time | TS (%) calculated as: | TVS (mg/kg dry wt) calculated as: |
| <i>record times as mm/dd/yy hh:mm</i> | Final dry wt (g) = (Dry Wt - Tare Wt) | Final ash wt (g) = (min ash wt - tare wt) |
| 5/22/2012 19:59 date/time in oven KE | TS = (Final Dry Wt)/(grams Sample-Tare) | TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 |
| 5/23/2012 11:24 date/time out KE | | if ash wt > dry wt, "Chk for Err" |
| elapsed hrs = 15.4 | | if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000" |

| | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|-------|--|--|-------|-------|--|--|
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | CV-02 | CV-02 | | |
| Date & Time | 5/22/12 14:10 KE | 5/22/12 13:10 KE | 5/23/12 11:39 KE | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | | | | | | | |
| <i>record weights to 4 places</i> | Cal OK! | Cal OK! | Cal OK! | | | | | | | |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | | Ash Wt (g) | TVS | |
|-----------|--------|----------------|-----------------|---------------------|--|--|------------|--------|---------------------|---|--|------------|---------|-----|
| | | | | 1 | | | | | 1 | 2 | | | (mg/kg) | (%) |
| UU61 | B2 | 6.5073 | 1.0778 | 1.5330 | | | 0.46 | 8.4% | | | | | | |
| UU61 | B2 | 6.5346 | 1.0854 | 1.7256 | | | 0.64 | 11.7% | | | | | | |
| UU52 | K1 | 7.1779 | 1.0738 | 1.7226 | | | 0.65 | 10.6% | | | | | | |

0052:02223



TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

| Analyst: <u>(W)</u> | | Date: <u>5-22-12</u> | | | Oven ID: <u>12</u> | | Balance ID: <u>1123230597</u> | | | |
|---|--------|--|----------------------|----------------------|--|-------|-------------------------------|------------------|-------|---|
| Time in Oven: <u>19:59</u> | | Time Out of Oven: <u>11:04</u> | | | Elapsed Time (> 12 Hrs): | | | | | |
| Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places | | TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight) | | | TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000] (A) If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000 | | | | | |
| Cal Weight ID | | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | |
| Date & Time: | | <u>5-22-12 14:10</u> | <u>5-22-12 13:10</u> | <u>5-23-12 11:39</u> | | | | | | |
| Cal Weight (10.0000): | | <u>10.0000 (W)</u> | <u>10.0000 (W)</u> | <u>10.0000 (W)</u> | | | | | | |
| Sample ID | Dish # | Sample | Tare | Dry Weight 104°C | | | Dry Weight grams | Ash Weight 550°C | | |
| | | | | 1 | 2 | 3 | | 1 | 2 | 3 |
| BLANK | 1 | Ø | 1.0920 | 1.0919 | | | | | | |
| UUS2 | A1 | 2 | 6.4621 | 1.0627 | 1.6154 | | | | | |
| | B1 | 3 | 6.2811 | 1.0880 | 1.6262 | | | | | |
| | C1 | 4 | 6.7227 | 1.0774 | 1.6636 | | | | | |
| | D1 | 5 | 6.6617 | 1.1141 | 1.6305 | | | | | |
| | E1 | 6 | 6.5580 | 1.1073 | 1.6687 | | | | | |
| | F1 | 7 | 6.9637 | 1.0952 | 1.6367 | | | | | |
| | G1 | 8 | 6.2645 | 1.0996 | 1.6055 | | | | | |
| | H1 | 9 | 6.3479 | 1.0822 | 1.6688 | | | | | |
| | I1 | 10 | 6.0304 | 1.0868 | 1.6179 | | | | | |
| ✓ | J1 | 11 | 7.4572 | 1.0873 | 1.7334 | | | | | |
| UUS2 | A1 | 12 | 5.7385 | 1.1214 | 1.6022 | | | | | |
| | RA1 | 13 | 5.9644 | 1.0856 | 1.5891 | | | | | |
| | HA1 | 14 | 5.8348 | 1.0790 | 1.5736 | | | | | |
| | B1 | 15 | 6.3197 | 1.0853 | 1.5963 | | | | | |
| | C1 | 16 | 6.1428 | 1.0999 | 1.7818 | | | | | |
| | D1 | 17 | 7.0330 | 1.1632 | 1.6553 | | | | | |
| | E1 | 18 | 7.3446 | 1.0745 | 1.6899 | | | | | |
| | F1 | 19 | 6.7839 | 1.1072 | 1.6913 | | | | | |
| | G1 | 20 | 7.1027 | 1.1112 | 1.8522 | | | | | |
| | H1 | 21 | 6.5073 | 1.0778 | 1.5330 | | | | | |
| ✓ | I1 | 22 | 6.5346 | 1.0854 | 1.7256 | | | | | |
| UUS2 | K1 | 23 | 7.1779 | 1.0738 | 1.7226 | | | | | |

UUS2: 02224

Handwritten signature

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis
 General notes regarding prep method and samples (identify the acid used)

DATE: 5/22/2012

ANALYST: KE 20:16 (A)

make no entry to shaded cells, they are calculated

| Sample ID | | IC Test + / - | Gravimetric Data (grams) | | | % Solids | Sample description & notes (homogeneity and exclusions) |
|--------------|--------|------------------|--------------------------|---------|-------------|-------------|--|
| ARI # | Client | | Tare Wt. | Wet wt. | 70°C dry wt | | |
| Blank | | | 13.2166 | | 13.2166 | 0 mg | |
| UU52 A1 | | - | 13.2789 | 18.4767 | 13.8568 | 11.12% | |
| UU52 B1 | | - | 13.2959 | 18.4106 | 13.8641 | 11.11% | |
| UU52 C1 | | - | 13.3543 | 18.1976 | 13.9180 | 11.64% | |
| UU52 D1 | | - | 13.3613 | 18.5305 | 13.9056 | 10.53% | |
| UU52 E1 | | - | 13.4183 | 19.5993 | 14.1012 | 11.05% | |
| UU52 F1 | | - | 13.2879 | 19.2153 | 13.8039 | 8.71% | |
| UU52 G1 | | - | 13.2933 | 17.6730 | 13.7292 | 9.95% | |
| UU52 H1 | | - | 13.2445 | 19.3995 | 14.3521 | 18.00% | |
| UU52 I 1 | | - | 13.3466 | 19.9070 | 14.1765 | 12.65% | |
| UU52 J 1 | | - | 13.3198 | 19.1937 | 13.9878 | 11.37% | |
| UU62 A1 | | - | 13.3426 | 17.5260 | 13.8293 | 11.63% | |
| UU62 A1 dup | | - | 13.4002 | 17.5174 | 13.8807 | 11.67% | RPD = 0.31% |
| UU62 A1 trip | | - | 13.2918 | 17.6138 | 13.7951 | 11.65% | RSD = 0.16% |
| UU62 B1 | | - | 13.2982 | 17.8189 | 13.7296 | 9.54% | |
| UU62 C1 | | - | 13.2593 | 18.8427 | 13.8487 | 10.56% | |
| UU62 D1 | | - | 13.3530 | 18.2639 | 13.8584 | 10.29% | |
| UU62 E1 | | - | 13.2843 | 20.2848 | 14.0388 | 10.78% | |
| UU62 F1 | | - | 13.3865 | 18.4751 | 13.9651 | 11.37% | |
| UU62 G1 | | - | 13.2466 | 18.2343 | 14.0005 | 15.12% | |
| UU62 H1 | | - | 13.3433 | 18.1257 | 13.7770 | 9.07% | |
| UU62 I 1 | | - | 13.1241 | 18.2178 | 13.7988 | 13.25% | |
| UU52 K1 | | - | 13.2392 | 19.5091 | 13.9541 | 11.40% | |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

② 13.2166 5-22-12 (K)

①-5-22-12

(A)

Analyst ①

20116

Date

5-22-12

| Sample Identification | | IC Test | Gravimetric Data | | | % Solids | Sample description & notes |
|-----------------------|-----------|---------|------------------|---------|---------|----------|----------------------------|
| ARI # | Client ID | | Tare | Wet | 70 °C | | |
| Blank | | | ② | ① | 13.2166 | | |
| UUS2 A1 | | - | 13.2789 | 18.4767 | 13.8568 | | U. wet Sediment |
| B1 | | - | 13.2959 | 18.4106 | 13.8641 | | |
| C1 | | - | 13.3543 | 18.1976 | 13.9180 | | |
| D1 | | - | 13.3613 | 18.5305 | 13.9056 | | |
| E1 | | - | 13.4183 | 19.5993 | 14.1012 | | |
| F1 | | - | 13.2879 | 19.2153 | 13.8039 | | Debris & silt |
| G1 | | - | 13.2933 | 17.6730 | 13.7292 | | Debris & moisture |
| H1 | | - | 13.2445 | 19.3995 | 14.3521 | | (Wet Sediment + R.H.) |
| I1 | | - | 13.3466 | 19.9070 | 14.1765 | | |
| J1 | | - | 13.3198 | 19.1937 | 13.9878 | | V-wet Sediment |
| UUS2 A1 | | - | 13.3426 | 17.5260 | 13.8293 | | |
| NA1 | | - | 13.4002 | 17.5174 | 13.8807 | | |
| POA1 | | - | 13.2918 | 17.6138 | 13.7951 | | |
| B1 | | - | 13.2982 | 17.8220 | 13.7296 | 13.7296 | Debris & moisture |
| C1 | | - | 13.2593 | 18.8427 | 13.7293 | 13.8487 | Sediment V-Wet + R.H. |
| D1 | | - | 13.3530 | 19.2639 | 13.8487 | 13.8584 | |
| E1 | | - | 13.2843 | 20.2848 | 13.8584 | 14.0388 | |
| F1 | | - | 13.3865 | 18.4751 | 14.0398 | 13.9651 | |
| G1 | | - | 13.2466 | 18.7343 | 13.9651 | 14.0005 | |
| H1 | | - | 13.3433 | 18.1257 | 13.9 | 14.0005 | 13.7770 |
| I1 | | - | 13.1241 | 18.2178 | 13.7768 | 13.7198 | Debris - silt - moisture |
| UUS2 K1 | | - | 13.2392 | 19.5091 | 13.9541 | | Wet Sed + R.H. |

5-22-12

(K)

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

ZnOAc PRES.

DATE: 5/21/2012

ANALYST: CDE / KE 18:46

Instrumentation

Drying Ovens: 12

Analytical Balance: 1123230597

Muffle Furnace: N/A

| | | | | | | | | | | |
|--|-------------------|---|--|--|--|---|--|--|--|--|
| Batch drying time record times as mm/dd/yy hh:mm | | TS (%) calculated as: Final dry wt (g) = (Dry Wt - Tare Wt) TS = (Final Dry Wt) / (grams Sample-Tare) | | | | TVS (mg/kg dry wt) calculated as: Final ash wt (g) = (min ash wt - tare wt) TVS (mg/kg) = [(Dry wt-Ash wt) / (dry weight)] * 1,000,000 if ash wt > dry wt, "Chk for Err" if dry wt-ash wt < 0.001 g, "< (1/dry wt) * 1,000,000" | | | | |
| 5/21/2012 18:46 | date/time in oven | CDE | | | | | | | | |
| 5/22/2012 9:50 | date/time out | KE | | | | | | | | |
| elapsed hrs = 15.1 | | | | | | | | | | |

| | | | | | | | | | | | | |
|----------------------------|-------------------|-------------------|------------------|---------|--|--|--|-------|-------|--|--|--|
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | CV-02 | CV-02 | | | |
| Date & Time | 5/21/17 18:31 CDE | 5/21/12 18:02 CDE | 5/22/12 10:07 KE | | | | | | | | | |
| Cal Wt (g) | 10.0000 | 10.0000 | 10.0000 | 10.0000 | | | | | | | | |
| record weights to 4 places | Cal OK! | Cal OK! | Cal OK! | | | | | | | | | |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) | | | dry Wt (g) | TS (%) | ASH WT 550C (grams) | | | Ash Wt (g) | TVS (mg/kg) (%) | |
|-------------|--------|----------------|-----------------|---------------------|--|--|------------|--------|---------------------|---|--|------------|-----------------|--|
| | | | | 1 | | | | | 1 | 2 | | | | |
| Blank | | | 1.0697 | 1.0695 | | | 0.00 | | | | | | | |
| UU52 A1 | | 5.7549 | 1.1032 | 1.5528 | | | 0.45 | 9.7% | | | | | | |
| UU52 B1 | | 5.9279 | 1.1152 | 1.5816 | | | 0.47 | 9.7% | | | | | | |
| UU52 C1 | | 6.0710 | 1.0846 | 1.6088 | | | 0.52 | 10.5% | | | | | | |
| UU52 D1 | | 5.9068 | 1.0853 | 1.6087 | | | 0.52 | 10.9% | | | | | | |
| UU52 E1 | | 5.6996 | 1.0903 | 1.5517 | | | 0.46 | 10.0% | | | | | | |
| UU52 F1 | | 7.0072 | 1.1037 | 1.5950 | | | 0.49 | 8.3% | | | | | | |
| UU52 G1 | | 7.1493 | 1.1040 | 1.5189 | | | 0.41 | 6.9% | | | | | | |
| UU52 H1 | | 7.1873 | 1.1164 | 2.2680 | | | 1.15 | 19.0% | | | | | | |
| UU52 I 1 | | 6.7462 | 1.1051 | 1.5634 | | | 0.46 | 8.1% | | | | | | |
| UU52 J 1 | | 6.1080 | 1.0705 | 1.6069 | | | 0.54 | 10.6% | | | | | | |
| UU52 K1 | | 6.2759 | 1.1027 | 1.6435 | | | 0.54 | 10.5% | | | | | | |
| UU62 A2 | | 5.4002 | 1.1191 | 1.5754 | | | 0.46 | 10.7% | | | | | | |
| UU62 A2 dup | | 6.2273 | 1.0920 | 1.6397 | | | 0.55 | 10.7% | | | | | | |

RPD = 0.06%

RPD = NA

| | | | | | | | | | | | | | | |
|----------|--|--------|--------|--------|--|--|------|-------|--|--|--|--|--|--|
| UU62 B2 | | 6.7711 | 1.1052 | 1.7301 | | | 0.62 | 11.0% | | | | | | |
| UU62 C2 | | 5.9420 | 1.0731 | 1.5823 | | | 0.51 | 10.5% | | | | | | |
| UU62 D2 | | 6.9835 | 1.0837 | 1.6509 | | | 0.57 | 9.6% | | | | | | |
| UU62 E2 | | 6.2392 | 1.0827 | 1.6378 | | | 0.56 | 10.8% | | | | | | |
| UU62 F2 | | 6.0887 | 1.0727 | 1.6248 | | | 0.55 | 11.0% | | | | | | |
| UU62 G2 | | 7.2866 | 1.0940 | 1.7732 | | | 0.68 | 11.0% | | | | | | |
| UU62 H2 | | 7.1339 | 1.0867 | 1.5338 | | | 0.45 | 7.4% | | | | | | |
| UU62 I 2 | | 7.2643 | 1.0665 | 1.7520 | | | 0.69 | 11.1% | | | | | | |



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

ZnOAc Preserved

| Analyst: <i>WCS/10</i> | | Date: <i>5-21-12</i> | Oven ID: <i>12</i> | Balance ID: <i>1123230597</i> | | | | | | |
|---|--|----------------------|--------------------------|---|---------------|---|------------------|------------------|---|---|
| Time in Oven: <i>18:46</i> | Time Out of Oven: <i>9:50</i> | | Elapsed Time (> 12 Hrs): | | | | | | | |
| Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places | TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight) | | | TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000 If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000 | | | | | | |
| Cal Weight ID | CV-02 | CV-02 | CV-02 | CV-02 | | | | | | |
| Date & Time: | <i>5-21-12 14:31</i> | <i>5-21-12 18:07</i> | <i>5-22-12 10:07</i> | | | | | | | |
| Cal Weight (10.0000): | <i>10.0000 CAL</i> | <i>10.0000 CAL</i> | <i>10.0000 (A)</i> | | | | | | | |
| Sample ID | Dish # | Sample | Tare | Dry Weight 104°C | | | Dry Weight grams | Ash Weight 550°C | | |
| | | | | 1 | 2 | 3 | | 1 | 2 | 3 |
| BLANK | <i>Z1</i> | <i>Ø</i> | <i>1.0697</i> | <i>1.0695</i> | | | | | | |
| <i>WU52</i> | <i>A1</i> | <i>2</i> | <i>5.2549</i> | <i>1.1032</i> | <i>1.5528</i> | | | | | |
| | <i>B1</i> | <i>3</i> | <i>5.9279</i> | <i>1.1152</i> | <i>1.5816</i> | | | | | |
| | <i>C1</i> | <i>4</i> | <i>6.0710</i> | <i>1.0846</i> | <i>1.6088</i> | | | | | |
| | <i>D1</i> | <i>5</i> | <i>5.9068</i> | <i>1.0853</i> | <i>1.6087</i> | | | | | |
| | <i>E1</i> | <i>6</i> | <i>5.6996</i> | <i>1.0903</i> | <i>1.5517</i> | | | | | |
| | <i>F1</i> | <i>7</i> | <i>7.0072</i> | <i>1.1037</i> | <i>1.5950</i> | | | | | |
| | <i>G1</i> | <i>8</i> | <i>7.1493</i> | <i>1.1040</i> | <i>1.5189</i> | | | | | |
| | <i>H1</i> | <i>9</i> | <i>7.1873</i> | <i>1.1164</i> | <i>2.2680</i> | | | | | |
| | <i>I1</i> | <i>10</i> | <i>6.7462</i> | <i>1.1051</i> | <i>1.5634</i> | | | | | |
| | <i>J1</i> | <i>11</i> | <i>6.1080</i> | <i>1.0705</i> | <i>1.6069</i> | | | | | |
| <i>WU62</i> | <i>K1</i> | <i>12</i> | <i>6.2759</i> | <i>1.1027</i> | <i>1.6435</i> | | | | | |
| | <i>A2</i> | <i>13</i> | <i>5.4002</i> | <i>1.1191</i> | <i>1.5754</i> | | | | | |
| | <i>A2^{dp}</i> | <i>14</i> | <i>6.2273</i> | <i>1.0920</i> | <i>1.6397</i> | | | | | |
| | <i>B2</i> | <i>15</i> | <i>6.7711</i> | <i>1.1052</i> | <i>1.7301</i> | | | | | |
| | <i>C2</i> | <i>16</i> | <i>5.9420</i> | <i>1.0731</i> | <i>1.5823</i> | | | | | |
| | <i>D2</i> | <i>17</i> | <i>6.9835</i> | <i>1.0837</i> | <i>1.6509</i> | | | | | |
| | <i>E2</i> | <i>18</i> | <i>6.2392</i> | <i>1.0827</i> | <i>1.6378</i> | | | | | |
| | <i>F2</i> | <i>19</i> | <i>6.0897</i> | <i>1.0727</i> | <i>1.6248</i> | | | | | |
| | <i>G2</i> | <i>20</i> | <i>7.2866</i> | <i>1.0940</i> | <i>1.7732</i> | | | | | |
| | <i>H2</i> | <i>21</i> | <i>7.1339</i> | <i>1.0867</i> | <i>1.5338</i> | | | | | |
| | <i>I2</i> | <i>22</i> | <i>7.2643</i> | <i>1.0665</i> | <i>1.7520</i> | | | | | |

WU52: 02228

Original Run Filename: OM_5-21-2012_12-47-10PM.OMN Created: 5/21/2012 12:47:10 PM

Original Run Author's Signature: [Carol Hawkins]

Current Run Filename: 052112NH3A.omn Last Modified: 5/21/2012 3:04:13 PM

Current Run Author's Signature: [Carol Hawkins]

Description: LACHAT 1

ARI In-House Standards: 00122-3

| Sample | Cup No. | Channel 1 | | Detection Time | MANUAL DILUTION FACTOR |
|----------------|---------|----------------|------------|-----------------------|------------------------|
| | | NH3 | | | |
| | | Conc. (mg N/L) | Area (V.s) | | |
| STD 1.0 | S1 | 1 | 40.2259 | 5/21/2012@12:48:09 PM | |
| STD 0.8 | S2 | 0.8 | 32.0222 | 5/21/2012@12:49:20 PM | |
| STD 0.5 | S3 | 0.5 | 19.8143 | 5/21/2012@12:50:30 PM | |
| STD 0.2 | S4 | 0.2 | 7.981 | 5/21/2012@12:51:40 PM | |
| STD 0.05 | S5 | 0.05 | 1.9237 | 5/21/2012@12:52:50 PM | |
| STD 0.02 | S6 | 0.02 | 0.8151 | 5/21/2012@12:54:01 PM | |
| STD 0.01 | S7 | 0.01 | 0.4091 | 5/21/2012@12:55:11 PM | |
| BLANK | S8 | 0 | -0.3586 | 5/21/2012@12:56:21 PM | |
| ICV ERA 130611 | 9 | 0.5275 | 21.1039 | 5/21/2012@12:57:32 PM | |
| Known Conc: | | 0.5 | | | |
| ICB | 10 | -0.0052 | -0.3331 | 5/21/2012@1:03:28 PM | |
| Known Conc: | | 0 | | | |
| LOW | 11 | 0.0136 | 0.4225 | 5/21/2012@1:09:25 PM | |
| Known Conc: | | 0.01 | | | |
| PREP BLANK | 12 | -0.0044 | -0.2993 | 5/21/2012@1:15:22 PM | |
| PREP CHECK | 13 | 39.856 | 80.0689 | 5/21/2012@1:16:32 PM | 20 |
| Spiking Conc: | | 40 | | | |

%R= 105.50

| | | | | | |
|----------------|----|---------|---------|----------------------|----|
| UU62A1 | 14 | 0.9842 | 39.4815 | 5/21/2012@1:17:43 PM | |
| UU62A1-DUP | 15 | 1.0276 | 41.2291 | 5/21/2012@1:18:53 PM | |
| UU62A1-MS | 16 | 41.3349 | 83.0447 | 5/21/2012@1:20:04 PM | 20 |
| -Spiking Conc: | | 40 | | | |
| UU62B1 | 19 | 0.2162 | 8.5762 | 5/21/2012@1:21:15 PM | |
| UU62C1 | 20 | 1.5325 | 61.545 | 5/21/2012@1:22:25 PM | |
| UU62D1 | 21 | 1.0591 | 42.4959 | 5/21/2012@1:23:36 PM | |
| UU62E1 | 22 | 1.9593 | 78.72 | 5/21/2012@1:24:48 PM | |
| CCV | 17 | 0.5262 | 21.0497 | 5/21/2012@1:25:58 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0056 | -0.3486 | 5/21/2012@1:31:55 PM | |
| Known Conc: | | 0 | | | |
| UU62F1 | 23 | 1.2848 | 51.5793 | 5/21/2012@1:37:52 PM | |
| UU62G1 | 24 | 1.5016 | 60.302 | 5/21/2012@1:39:03 PM | |
| UU62H1 | 25 | 0.954 | 38.2667 | 5/21/2012@1:40:13 PM | |
| UU62I1 | 26 | 1.4353 | 57.6342 | 5/21/2012@1:41:25 PM | |
| UU52A2 | 27 | 1.3537 | 54.35 | 5/21/2012@1:42:37 PM | |
| UU52B2 | 28 | 1.3099 | 52.588 | 5/21/2012@1:43:48 PM | |
| UU52C2 | 29 | 2.1347 | 85.7796 | 5/21/2012@1:44:59 PM | |
| UU52D2 | 30 | 1.4843 | 59.6048 | 5/21/2012@1:46:10 PM | |
| UU52E2 | 31 | 1.8371 | 73.8039 | 5/21/2012@1:47:22 PM | |
| UU52F2 | 32 | 0.6199 | 24.8216 | 5/21/2012@1:48:33 PM | |
| CCV | 17 | 0.5265 | 21.0616 | 5/21/2012@1:49:44 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0059 | -0.3618 | 5/21/2012@1:55:40 PM | |
| Known Conc: | | 0 | | | |

%R= 105.24

%R= 105.30

| | | | | | |
|---------------|----|---------|---------|----------------------|----|
| UU52G2 | 33 | 0.1747 | 6.9063 | 5/21/2012@2:01:38 PM | |
| UU52H2 | 34 | 0.5669 | 22.6888 | 5/21/2012@2:02:48 PM | |
| UU52I2 | 35 | 0.1269 | 4.9835 | 5/21/2012@2:04:00 PM | |
| UU52J2 | 36 | 1.1247 | 46.1362 | 5/21/2012@2:05:12 PM | |
| UU52K2 | 37 | 1.1343 | 46.5205 | 5/21/2012@2:06:24 PM | |
| PREP CHECK | 38 | 10.0876 | 20.1731 | 5/21/2012@2:07:35 PM | 20 |
| UU62A1 MS | 39 | 10.424 | 20.849 | 5/21/2012@2:08:46 PM | 20 |
| Spiking Conc: | | 10 | | | |
| UU62A1 DUP | 40 | 1.0373 | 20.7476 | 5/21/2012@2:09:58 PM | 2 |
| UU62C1 | 41 | 1.5427 | 30.9172 | 5/21/2012@2:11:09 PM | 2 |
| UU62D1 | 42 | 1.0635 | 21.2749 | 5/21/2012@2:12:21 PM | 2 |
| CCV | 17 | 0.5268 | 21.074 | 5/21/2012@2:13:32 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.003 | -0.2446 | 5/21/2012@2:19:28 PM | |
| Known Conc: | | 0 | | | |
| UU62E1 | 43 | 1.9343 | 15.4442 | 5/21/2012@2:25:26 PM | 5 |
| UU62F1 | 44 | 1.2823 | 25.6772 | 5/21/2012@2:26:38 PM | 2 |
| UU62G1 | 45 | 1.5107 | 30.2719 | 5/21/2012@2:27:49 PM | 2 |
| UU62I1 | 46 | 1.4366 | 28.7815 | 5/21/2012@2:29:01 PM | 2 |
| UU52A2 | 47 | 1.3558 | 27.1552 | 5/21/2012@2:30:13 PM | 2 |
| UU52B2 | 48 | 1.3064 | 26.1615 | 5/21/2012@2:31:25 PM | 2 |
| UU52C2 | 49 | 2.1155 | 16.9026 | 5/21/2012@2:32:37 PM | 5 |
| UU52D2 | 50 | 1.4922 | 29.9 | 5/21/2012@2:33:49 PM | 2 |
| UU52E2 | 51 | 1.8262 | 14.5737 | 5/21/2012@2:35:01 PM | 5 |
| UU52J2 | 52 | 1.1319 | 22.6501 | 5/21/2012@2:36:13 PM | 2 |

%R= 100.88

%R= 93.87

SPK=0.4ML@1000PPM/40ML=10PPM

%RPD= 5.25

%R= 105.36

| | | | | | |
|-------------|----|---------|---------|----------------------|---|
| CCV | 17 | 0.5277 | 21.1127 | 5/21/2012@2:37:24 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0047 | -0.3116 | 5/21/2012@2:43:21 PM | |
| Known Conc: | | 0 | | | |
| UU52K2 | 53 | 1.1393 | 22.7995 | 5/21/2012@2:49:19 PM | 2 |
| KCL | 54 | -0.0062 | -0.3714 | 5/21/2012@2:50:31 PM | |
| CCV | 17 | 0.5291 | 21.1675 | 5/21/2012@2:51:42 PM | |
| Known Conc: | | 0.5 | | | |
| CCB | 18 | -0.0054 | -0.3411 | 5/21/2012@2:57:39 PM | |
| Known Conc: | | 0 | | | |

%R= 105.54

%R= 105.82

Soil Extraction Log

Date: 5-21-12 11:10

Parameter:

Analyst: *GA*

Extraction Procedure: *4g Soil 40ml KCl*
Shake 1 hr allow settle, filter, Analyze

| Time | Sample ID | Spikes and Standards | | | | | Notes & Comments |
|-------|------------|----------------------|------------------|----------------|--------------------|------------------------|------------------|
| | | Sample Wt (grams) | Extract Vol (mL) | Vol added (mL) | Conc of Std (mg/L) | Conc in Extract (mg/L) | |
| 11:10 | Blank | | 40ml | | | | |
| | Prep Check | | | 0.4 | 1000 | 10 | ELA 130611 |
| | UUS2A1 | 3.96 | | | | | |
| | dup | 4.06 | | | | | |
| | MF | 3.84 | | 0.4 | 1000 | 10 | ACT |
| | B1 | 4.24 | | | | | |
| | C1 | 4.09 | | | | | |
| | D1 | 4.28 | | | | | |
| | E1 | 3.87 | | | | | |
| | F1 | 4.11 | | | | | |
| | G1 | 3.79 | | | | | |
| | H1 | 3.87 | | | | | |
| | I1 | 3.80 | | | | | |
| | UUS2A2 | 4.04 | | | | | |
| | B2 | 3.94 | | | | | |
| | C2 | 3.83 | | | | | |
| | D2 | 3.77 | | | | | |
| | E2 | 4.00 | | | | | |
| | F2 | 3.79 | | | | | |
| | G2 | 4.00 | | | | | |
| | H2 | 4.07 | | | | | |
| | I2 | 3.77 | | | | | |
| | J2 | 3.84 | | | | | |
| | K2 | 4.29 | | | | | |

Original Run Filename: OM_5-21-2012_12-47-10PM.OMN Created: 5/21/2012 12:47:10 PM

Original Run Author's Signature: [Carol Hawkins]

Current Run Filename: 052112NH3A.omn Last Modified: 5/21/2012 3:04:13 PM

Current Run Author's Signature: [Carol Hawkins]

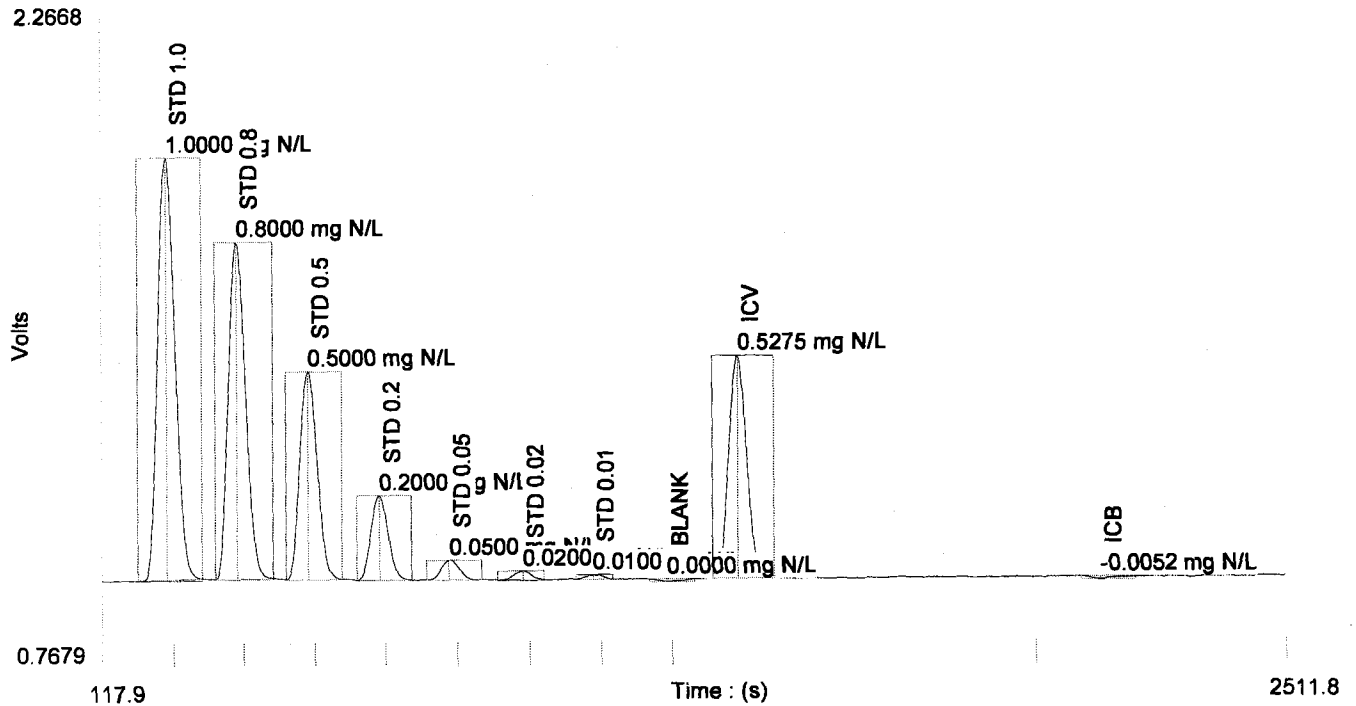
Description: Default New Run

| Sample | Cup No. | Channel 1 | | Detection Time | MDF |
|---------------|---------|--------------------------|---------------|-----------------------|-------|
| | | NH3 Conc. (mg N/L) | Area (V.s) | | |
| STD 1.0 | S1 | 1.0000 | 40.2259 | 5/21/2012@12:48:09 PM | |
| STD 0.8 | S2 | 0.8000 | 32.0222 | 5/21/2012@12:49:20 PM | |
| STD 0.5 | S3 | 0.5000 | 19.8143 | 5/21/2012@12:50:30 PM | |
| STD 0.2 | S4 | 0.2000 | 7.9810 | 5/21/2012@12:51:40 PM | |
| STD 0.05 | S5 | 0.0500 | 1.9237 | 5/21/2012@12:52:50 PM | |
| STD 0.02 | S6 | 0.0200 | 0.8151 | 5/21/2012@12:54:01 PM | |
| STD 0.01 | S7 | 0.0100 | 0.4091 | 5/21/2012@12:55:11 PM | |
| BLANK | S8 | 0.0000 | -0.3586 | 5/21/2012@12:56:21 PM | |
| ICV | 9 | 0.5275 | 21.1039 | 5/21/2012@12:57:32 PM | |
| Known Conc: | | 0.5000 | | | |
| Calibration: | | Table/Fig. : 1 | | | |
| ICB | 10 | -0.0052 | -0.3331 | 5/21/2012@1:03:28 PM | |
| Known Conc: | | 0.0000 | | | |
| LOW | 11 | 0.0136 | 0.4225 | 5/21/2012@1:09:25 PM | |
| Known Conc: | | 0.0100 | | | |
| PREP BLANK | 12 | -0.0044 | -0.2993 | 5/21/2012@1:15:22 PM | |
| PREP CHECK | 13 | 39.8560 | 80.0689 | 5/21/2012@1:16:32 PM | 20.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62A1 | 14 | 0.9842 | 39.4815 | 5/21/2012@1:17:43 PM | |
| UU62A1 DUP | 15 | 1.0276 | 41.2291 | 5/21/2012@1:18:53 PM | |
| UU62A1 MS | 16 | 41.3349 | 83.0447 | 5/21/2012@1:20:04 PM | 20.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62B1 | 19 | 0.2162 | 8.5762 | 5/21/2012@1:21:15 PM | |
| UU62C1 | 20 | 1.5325 | 61.5450 | 5/21/2012@1:22:25 PM | |
| UU62D1 | 21 | 1.0591 | 42.4959 | 5/21/2012@1:23:36 PM | |
| UU62E1 | 22 | 1.9593 | 78.7200 | 5/21/2012@1:24:48 PM | |
| CCV | 17 | 0.5262 | 21.0497 | 5/21/2012@1:25:58 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0056 | -0.3486 | 5/21/2012@1:31:55 PM | |
| Known Conc: | | 0.0000 | | | |
| UU62F1 | 23 | 1.2848 | 51.5793 | 5/21/2012@1:37:52 PM | |
| UU62G1 | 24 | 1.5016 | 60.3020 | 5/21/2012@1:39:03 PM | |
| UU62H1 | 25 | 0.9540 | 38.2667 | 5/21/2012@1:40:13 PM | |
| UU62I1 | 26 | 1.4353 | 57.6342 | 5/21/2012@1:41:25 PM | |
| UU52A2 | 27 | 1.3537 | 54.3500 | 5/21/2012@1:42:37 PM | |
| UU52B2 | 28 | 1.3099 | 52.5880 | 5/21/2012@1:43:48 PM | |
| UU52C2 | 29 | 2.1347 | 85.7796 | 5/21/2012@1:44:59 PM | |
| UU52D2 | 30 | 1.4843 | 59.6048 | 5/21/2012@1:46:10 PM | |
| UU52E2 | 31 | 1.8371 | 73.8039 | 5/21/2012@1:47:22 PM | |
| UU52F2 | 32 | 0.6199 | 24.8216 | 5/21/2012@1:48:33 PM | |
| CCV | 17 | 0.5265 | 21.0616 | 5/21/2012@1:49:44 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0059 | -0.3618 | 5/21/2012@1:55:40 PM | |
| Known Conc: | | 0.0000 | | | |
| UU52G2 | 33 | 0.1747 | 6.9063 | 5/21/2012@2:01:38 PM | |
| UU52H2 | 34 | 0.5669 | 22.6888 | 5/21/2012@2:02:48 PM | |
| UU52I2 | 35 | 0.1269 | 4.9835 | 5/21/2012@2:04:00 PM | |
| UU52J2 | 36 | 1.1247 | 45.1362 | 5/21/2012@2:05:12 PM | |
| UU52K2 | 37 | 1.1343 | 45.5205 | 5/21/2012@2:06:24 PM | |
| PREP CHECK | 38 | 10.0876 | 20.1731 | 5/21/2012@2:07:35 PM | 20.00 |
| UU62A1 MS | 39 | 10.4240 | 20.8490 | 5/21/2012@2:08:46 PM | 1.00 |
| Spiking Conc: | | 10.0000 | | | |
| UU62A1 DUP | 40 | 1.0373 | 20.7476 | 5/21/2012@2:09:58 PM | 2.00 |
| UU62C1 | 41 | 1.5427 | 30.9172 | 5/21/2012@2:11:09 PM | 2.00 |
| UU62D1 | 42 | 1.0635 | 21.2749 | 5/21/2012@2:12:21 PM | 2.00 |
| CCV | 17 | 0.5268 | 21.0740 | 5/21/2012@2:13:32 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0030 | -0.2446 | 5/21/2012@2:19:28 PM | |

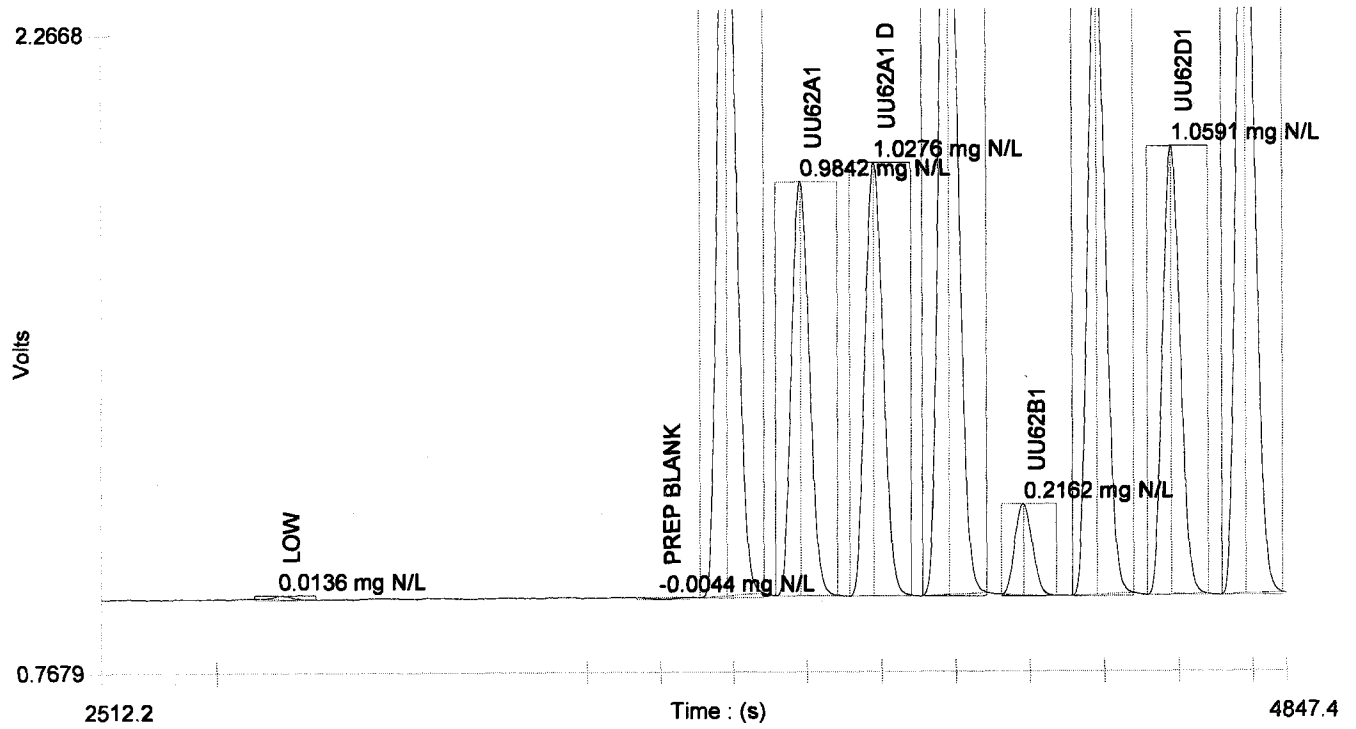
Handwritten: RA
5-21-12

| | | | | | |
|-------------|----|---------|---------|----------------------|------|
| Known Conc: | | 0.0000 | | | |
| UU62E1 | 43 | 1.9343 | 15.4442 | 5/21/2012@2:25:26 PM | 5.00 |
| UU62F1 | 44 | 1.2823 | 25.6772 | 5/21/2012@2:26:38 PM | 2.00 |
| UU62G1 | 45 | 1.5107 | 30.2719 | 5/21/2012@2:27:49 PM | 2.00 |
| UU62I1 | 46 | 1.4366 | 28.7815 | 5/21/2012@2:29:01 PM | 2.00 |
| UU52A2 | 47 | 1.3558 | 27.1552 | 5/21/2012@2:30:13 PM | 2.00 |
| UU52B2 | 48 | 1.3064 | 26.1615 | 5/21/2012@2:31:25 PM | 2.00 |
| UU52C2 | 49 | 2.1155 | 16.9026 | 5/21/2012@2:32:37 PM | 5.00 |
| UU52D2 | 50 | 1.4922 | 29.9000 | 5/21/2012@2:33:49 PM | 2.00 |
| UU52E2 | 51 | 1.8262 | 14.5737 | 5/21/2012@2:35:01 PM | 5.00 |
| UU52J2 | 52 | 1.1319 | 22.6501 | 5/21/2012@2:36:13 PM | 2.00 |
| CCV | 17 | 0.5277 | 21.1127 | 5/21/2012@2:37:24 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0047 | -0.3116 | 5/21/2012@2:43:21 PM | |
| Known Conc: | | 0.0000 | | | |
| UU52K2 | 53 | 1.1393 | 22.7995 | 5/21/2012@2:49:19 PM | 2.00 |
| KCL | 54 | -0.0062 | -0.3714 | 5/21/2012@2:50:31 PM | |
| CCV | 17 | 0.5291 | 21.1675 | 5/21/2012@2:51:42 PM | |
| Known Conc: | | 0.5000 | | | |
| CCB | 18 | -0.0054 | -0.3411 | 5/21/2012@2:57:39 PM | |
| Known Conc: | | 0.0000 | | | |

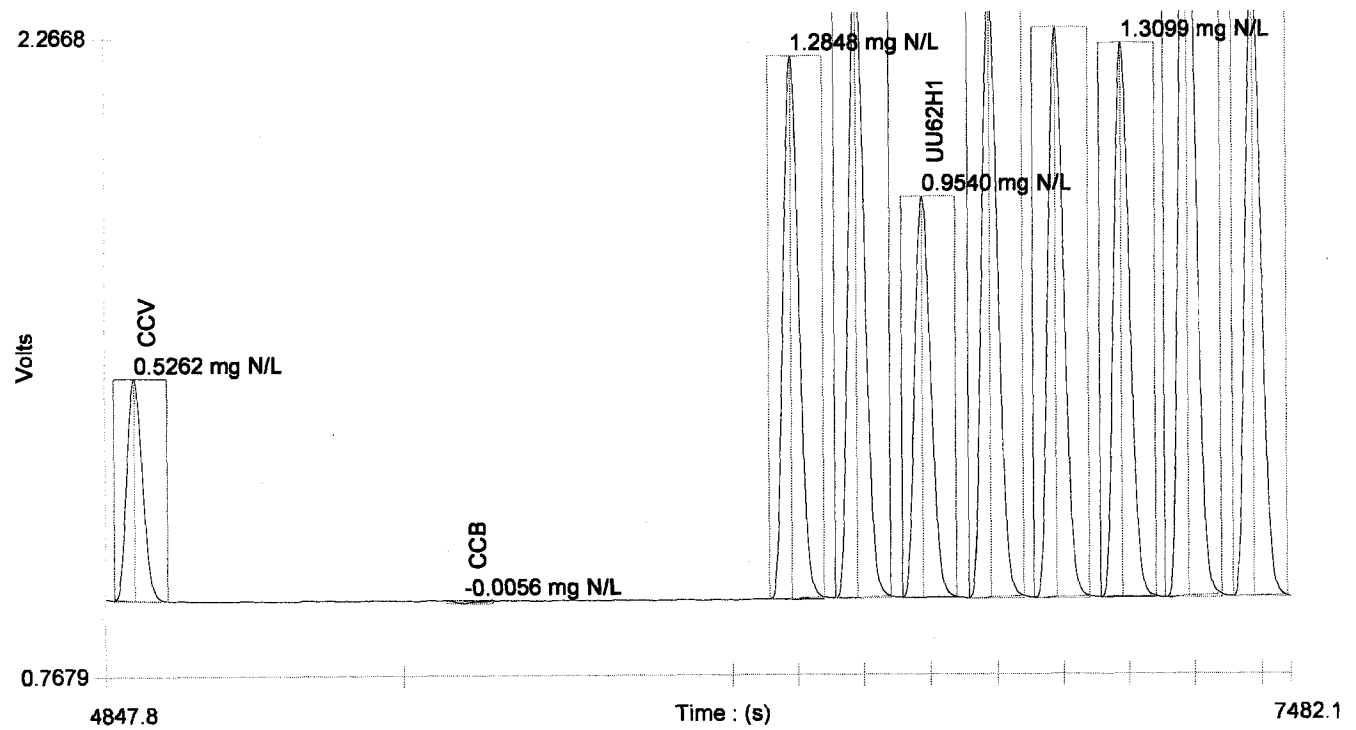
Channel 1 - Set: 1 / 7



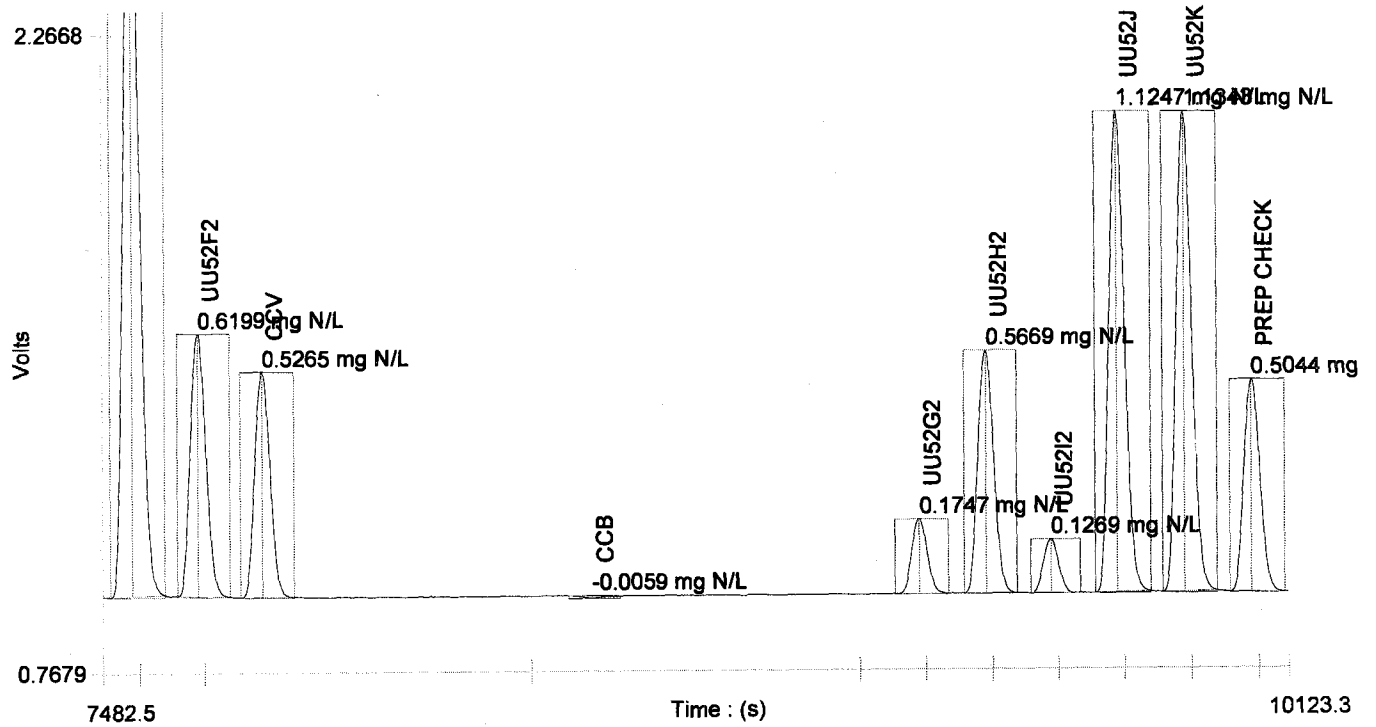
Channel 1 - Set: 2 / 7



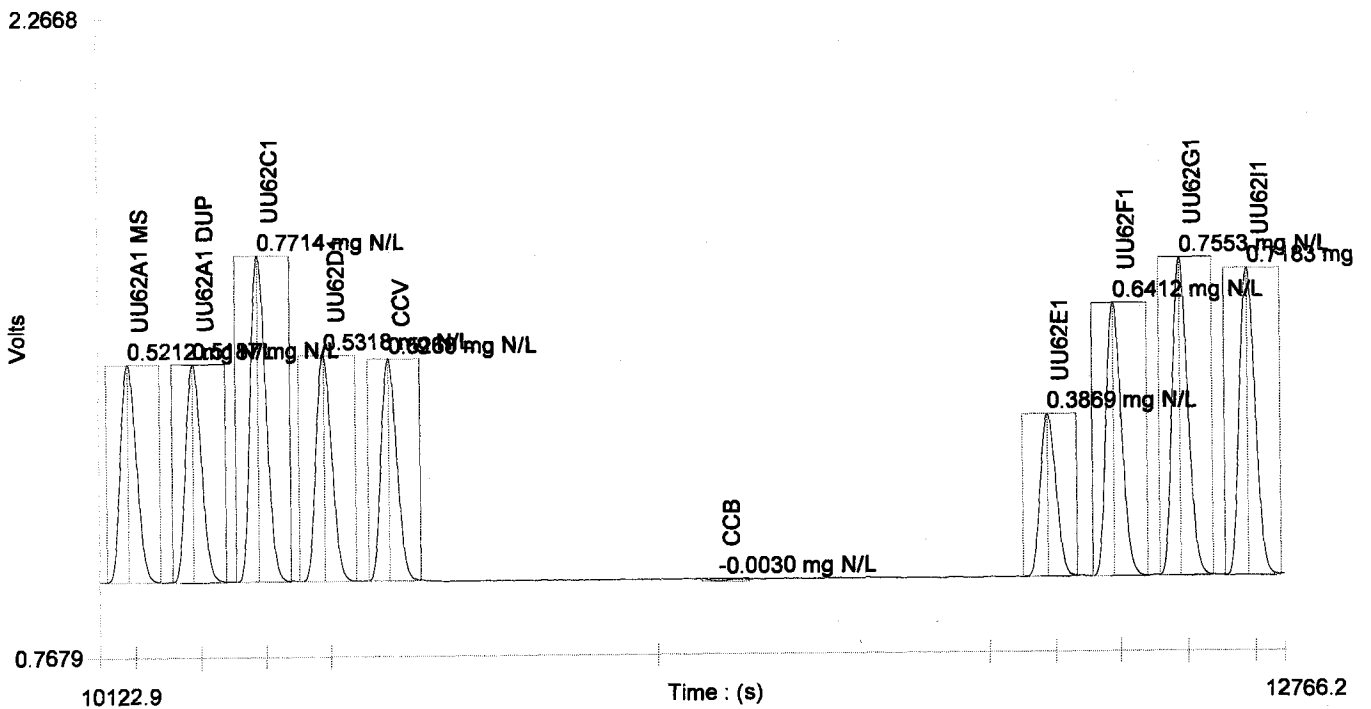
Channel 1 - Set: 3 / 7



Channel 1 - Set: 4 / 7

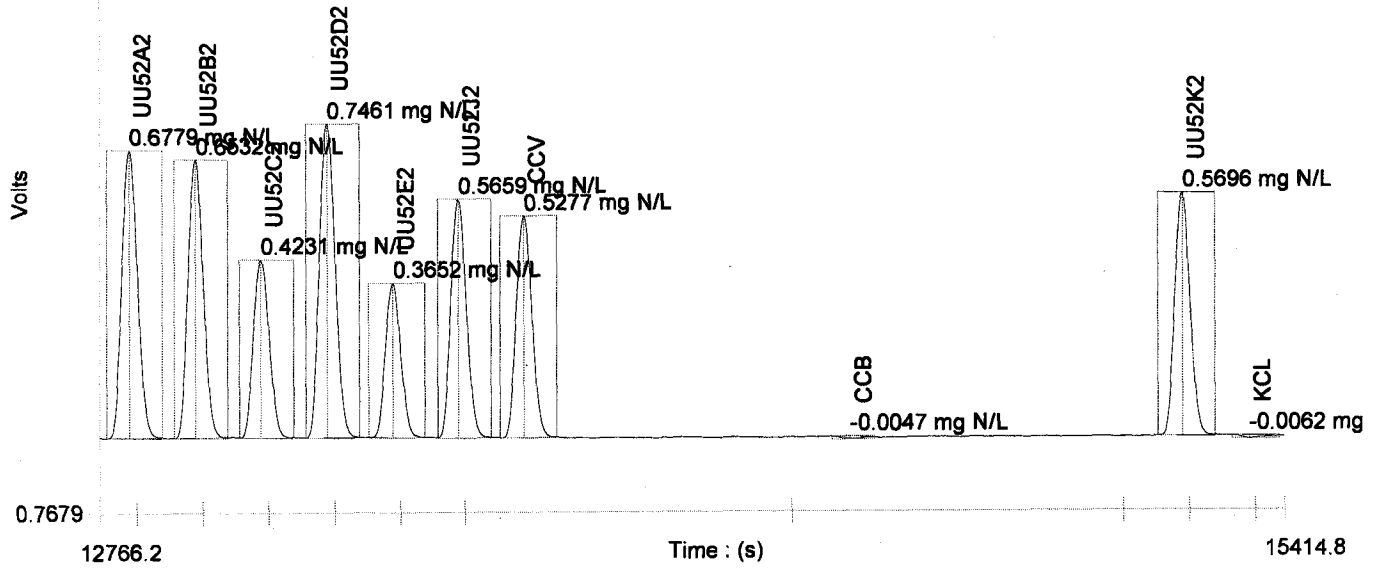


Channel 1 - Set: 5 / 7



Channel 1 - Set: 6 / 7

2.2668



Channel 1 - Set: 7 / 7

2.2668

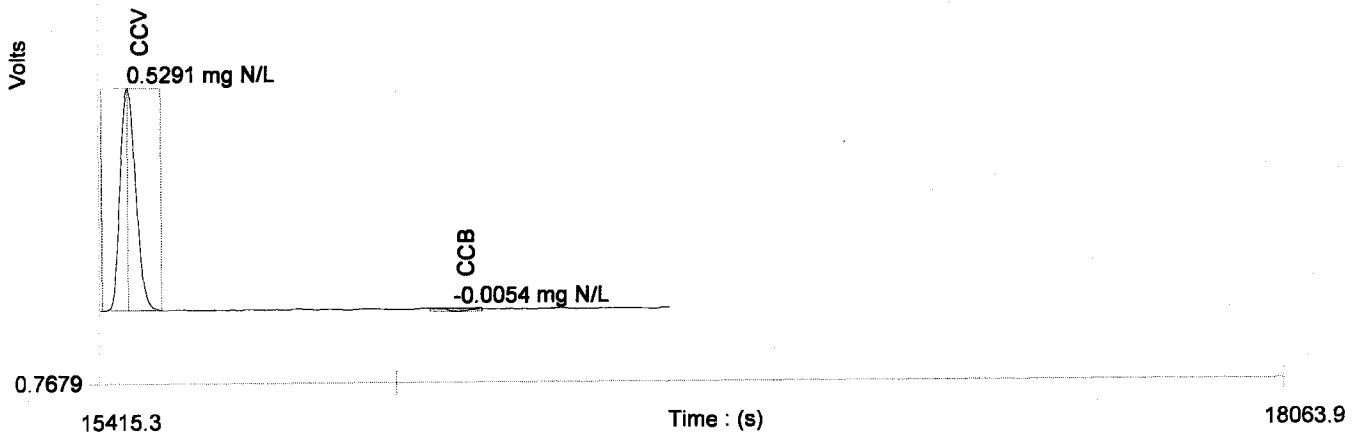
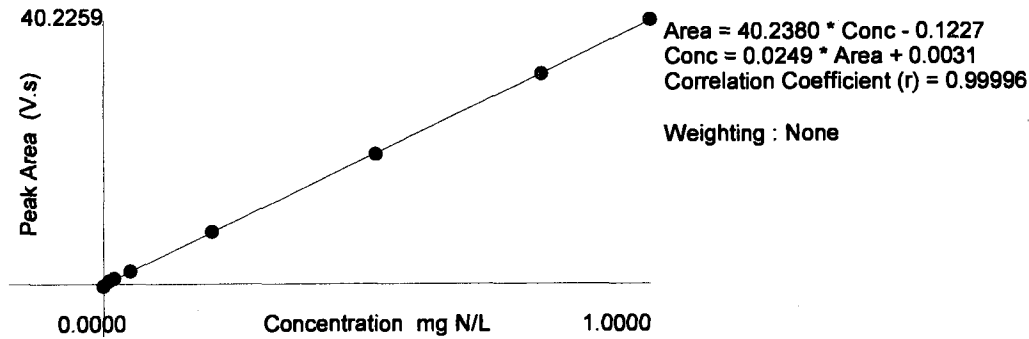


Table : 1 (NH3)

| | Known Conc. (mg N/L) | Rep. | Peak Area (V.s) | Peak Height (V) | % RSD | % Residual | Det. Conc (mg N/L) | Detection Date | Detection Time |
|---|-------------------------|------|--------------------|--------------------|-------|------------|-----------------------|----------------|----------------|
| 1 | 1.0000 | 1 | 40.2259 | 0.9906 | 0.0 | -0.3 | 1.0027 | 5/21/2012 | 12:48:09 PM |
| 2 | 0.8000 | 1 | 32.0222 | 0.7910 | 0.0 | 0.1 | 0.7988 | 5/21/2012 | 12:49:20 PM |
| 3 | 0.5000 | 1 | 19.8143 | 0.4876 | 0.0 | 0.9 | 0.4955 | 5/21/2012 | 12:50:30 PM |
| 4 | 0.2000 | 1 | 7.9810 | 0.1977 | 0.0 | -0.7 | 0.2014 | 5/21/2012 | 12:51:40 PM |
| 5 | 0.0500 | 1 | 1.9237 | 0.0467 | 0.0 | -1.8 | 0.0509 | 5/21/2012 | 12:52:50 PM |
| 6 | 0.0200 | 1 | 0.8151 | 0.0212 | 0.0 | -19.5 | 0.0233 | 5/21/2012 | 12:54:01 PM |
| 7 | 0.0100 | 1 | 0.4091 | 0.0114 | 0.0 | -46.3 | 0.0132 | 5/21/2012 | 12:55:11 PM |
| 8 | 0.0000 | 1 | -0.3586 | -0.0067 | | | -0.0058 | 5/21/2012 | 12:56:21 PM |

Figure : 1 (NH3)



Handwritten signature

| | | |
|--|---------------|---------|
| SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2) Soils, sediments and solid phase samples | Date Time | Analyst |
| | 5/18/12 8:40 | CLH/CR |
| | 5/18/12 17:31 | CLH/CR |

If distilled, specify Procedure: PSEP

| | | | |
|---|--|---|---|
| 1. Standardization of sodium thiosulfate titrant | | Buret used for titrations: CLASS A GLASS S2 | |
| Thiosulfate ID: <u>9237C</u> | | Titration of bi-iodate with thiosulfate | |
| Bi-iodate ID: <u>8560C</u> | | mL bi-iodate = | 3.00 3.00 3.00 |
| Stock bi-iodate = <u>0.8130</u> grams to <u>1000</u> mL | | mL thiosulfate = | 3.15 3.10 3.10 <i>nthio</i> |
| Normality = <u>0.025</u> | | Normality thiosulfate = (mL bi-iodate * normbio) / mL thiosulfate = | <u>0.024</u> <u>0.024</u> <u>0.024</u> <u>0.024</u> |

| | | | |
|-------------------------|--|---|---|
| 2. Normality of Iodine | | Titration of Iodine with thiosulfate | |
| Iodine ID: <u>9182C</u> | | mL iodine = | 3.00 3.00 3.00 |
| | | mL thiosulfate = | 3.05 3.05 3.05 <i>ni</i> |
| | | Normality iodine = (mL thiosulfate * nthio) / mL iodine = | <u>0.024</u> <u>0.024</u> <u>0.024</u> <u>0.024</u> |

| | | | |
|---|--|---|---|
| 3. Standardization of Sodium Sulfide Stock | | Titration of standard with thiosulfate | |
| Stock ID = <u>00122-6</u> | | mL Standard = | 1.00 1.00 1.00 |
| Approx conc in 100ml | | mL iodine = | 3.00 3.00 3.00 |
| g Na2S = <u>0.6026</u> mg/mL = <u>0.804</u> | | mL thiosulfate = | 1.40 1.40 1.40 <i>stkconc (mg/mL)</i> |
| | | Sulfide (mg/mL) = (((mL iodine * ni) - (mL thio * nthio)) * 16) / mL standard = | <u>0.636</u> <u>0.636</u> <u>0.636</u> <u>0.636</u> |

Intermediate Standard mL required for for 0.025 mg/mL 9.8

Add 9.8 mL stk to 250 mL 0.01M NaOH = 0.025 mg/mL

| 4. Calibration Standard Curve | | | | | | | spectrophotometer used: | |
|-------------------------------|-------------------|--------------------|--------------------|-----|-----------|-------|-------------------------|--------------------------|
| Inter Std Volume (mL) | Final Volume (mL) | Calc Conc (mg S/L) | Absorbance @650 nm | | AVG ABS | mg/L | Regression Data | |
| | | | 1 | 2 | | | intercept = | slope = |
| 0.00 | 50 | 0.000 | 0.000 | | 0.000 | 0.013 | -0.010 | 0.794 |
| 0.10 | 50 | 0.050 | 0.033 | | 0.033 | 0.054 | 0.9996 | |
| 0.25 | 50 | 0.125 | 0.087 | | 0.087 | 0.122 | | |
| 0.50 | 50 | 0.249 | 0.175 | | 0.175 | 0.233 | | Comment: Calibration OK! |
| 1.00 | 50 | 0.498 | 0.381 | | 0.381 | 0.493 | | |
| 2.00 | 50 | 0.997 | 0.787 | | 0.787 | 1.004 | maxabs = | 0.787 |
| Calib Verif Std = | | 1.0 | ml INT to | 50 | ml ZnOAc= | 0.498 | mg/l | |
| Distillation Std = | | 1.0 | ml stk to | 100 | = | 6.36 | mg/l | |

SAMPLE DATA

| enter dilution as mL final/mL sample | | | | | | | | | |
|--------------------------------------|-------------------|----------|------------------|-------------------------|--------------|------------|-------------------------|-----------------|------------|
| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | | |
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 650 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) | |
| ICB | | na | na | 1.00 | Sample | Bkg | 0.013 | < 0.05 | OK! |
| ICV | | na | na | 1.00 | 0.338 | | 0.438 | 0.438 | Err @ 88% |
| ICV | | na | na | 1.00 | 0.347 | | 0.450 | 0.450 | 90.23% |
| Distilled samples | | | | | | | | | |
| Dist Blk | 100.0 | 100% | 100 | 1.00 | 0.004 | | 0.018 | < 0.05 | OK! |
| Dist Chk | 100.0 | 100% | 100 | 10.00 | 0.486 | | 0.625 | 6.249 | 98.28% |
| Dist Chk2 | 100.0 | 100% | 100 | 10.00 | 0.439 | | 0.566 | 5.657 | 88.97% |
| Soil Samples | | | | | | | | | |
| | (grams) | % Solids | (mL) | | Sample | Bkg | (mg/L) | mg/kg | |
| UU62A2 | 5.1130 | 10.7% | 100 | 10.00 | 0.748 | | 0.955 | 1745.335 | |
| UU62A2 dup | 5.1500 | 10.7% | 100 | 10.00 | 0.655 | | 0.838 | 1520.232 | RPD=13.79% |
| UU62A2 ms | 5.1740 | 10.7% | 100 | 20.00 | 0.880 | | 1.121 | 4050.125 | offscale |
| | Spike at | | 2.00 | ml stock to | 0.554 | g dry wt = | | 2296.959 | mg/kg |
| UU62B2 | 5.122 | 11.0% | 100 | 1.00 | 0.024 | | 0.043 | < 8.847 | |
| UU62C2 | 5.054 | 10.5% | 100 | 20.00 | 0.448 | | 0.577 | 2174.637 | |
| UU62D2 | 5.084 | 9.6% | 100 | 10.00 | 0.580 | | 0.743 | 1522.876 | |
| UU62E2 | 5.253 | 10.8% | 400 | 20.00 | 1.529 | | 1.939 | 6833.930 | offscale |
| Cal Blk | | na | na | 1.00 | -0.001 | | 0.011 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.370 | | 0.479 | 0.479 | 96.04% |

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | | |
|-----------|-------------------|----------|------------------|-------------------------|--------------|-----|-------------------------|-----------------|----------|
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 650 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) | |
| | | | | | Sample | Bkg | | | |
| UU62F2 | 5.106 | 11.0% | 100 | 10.00 | 0.947 | | 1.205 | 2146.312 | offscale |
| UU62G2 | 5.085 | 11.0% | 100 | 10.00 | 0.301 | | 0.392 | 700.565 | |
| UU62H2 | 5.139 | 7.9% | 100 | 10.00 | 0.728 | | 0.930 | 2289.928 | |
| UU62I2 | 4.754 | 11.1% | 100 | 10.00 | 1.101 | | 1.399 | 2652.030 | offscale |
| UU52A1 | 4.992 | 9.7% | 100 | 10.00 | 1.107 | | 1.407 | 2905.716 | offscale |
| UU52B1 | 5.000 | 9.7% | 100 | 10.00 | 1.155 | | 1.467 | 3025.718 | offscale |
| UU52C1 | 4.831 | 10.5% | 100 | 10.00 | 1.274 | | 1.617 | 3188.443 | offscale |
| UU52D1 | 4.564 | 10.9% | 100 | 20.00 | 0.708 | | 0.904 | 3636.264 | |
| UU52E1 | 4.824 | 10.0% | 100 | 20.00 | 0.768 | | 0.980 | 4063.213 | |
| UU52F1 | 5.100 | 8.3% | 100 | 10.00 | 0.609 | | 0.780 | 1842.161 | |
| Cal Blk | | na | na | 1.00 | -0.001 | | 0.011 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.358 | | 0.464 | 0.464 | 93.01% |
| UU52G1 | 5.154 | 6.9% | 100 | 1.00 | 0.048 | | 0.073 | 20.585 | |
| UU52H1 | 5.003 | 19.0% | 100 | 10.00 | 0.531 | | 0.682 | 716.986 | |
| UU52I1 | 5.447 | 8.1% | 100 | 10.00 | 0.610 | | 0.781 | 1770.249 | |
| UU52J1 | 5.254 | 10.6% | 100 | 10.00 | 0.749 | | 0.956 | 1716.781 | |
| UU52K1 | 5.376 | 10.5% | 100 | 20.00 | 0.445 | | 0.573 | 2030.997 | |
| UU62A2 ms | 5.1740 | 10.7% | 100 | 50.00 | 0.362 | | 0.469 | 4232.975 | 108.30% |
| | | Spike at | 2.00 | ml stock to | 0.554 | | g dry wt = | 2296.959 | mg/kg |
| UU62E2 | 5.253 | 10.8% | 100 | 50.00 | 0.391 | | 0.505 | 4452.621 | |
| UU62F2 | 5.106 | 11.0% | 100 | 20.00 | 0.465 | | 0.598 | 2130.893 | |
| UU62I2 | 4.754 | 11.1% | 100 | 20.00 | 0.610 | | 0.781 | 2960.224 | |
| UU52A1 | 4.992 | 9.7% | 100 | 20.00 | 0.558 | | 0.716 | 2955.459 | |
| Cal Blk | | na | na | 1.00 | -0.004 | | 0.008 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.347 | | 0.450 | 0.450 | 90.23% |
| UU52B1 | 5.000 | 9.7% | 100 | 20.00 | 0.587 | | 0.752 | 3101.351 | |
| UU52C1 | 4.831 | 10.5% | 100 | 20.00 | 0.463 | | 0.596 | 2349.507 | |
| Cal Blk | | na | na | 1.00 | -0.003 | | 0.009 | < 0.05 | OK! |
| CCV | | na | na | 1.00 | 0.348 | | 0.451 | 0.451 | 90.49% |

SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2)
Soils, sediments and solid phase samples

Date Time: 5-18-12 8:40
Analyst: JCB
Distillation Finish: 5-18-12 17:31
If distilled, specify Procedure: PCEP

1. Standardization of sodium thiosulfate titrant
Thiosulfate ID: 4237C
Bi-iodate ID: 3530C
Stock bi-iodate = 0.8130 grams to 1000 mL
Normality =
Buret used for titrations: (Class A Glass) 2
Titration of bi-iodate with thiosulfate
mL bi-iodate = 3.0 3.0 3.0
mL thiosulfate = nthio

2. Normality of Iodine
Iodine ID: 9182C
mL iodine = 3.0 3.0 3.0
mL thiosulfate = 3.05 3.05 3.05 ni
Normality iodine = (mL thiosulfate * nthio) / mL iodine =

3. Standardization of Sodium Sulfide Stock
Stock ID = 00122-6
Approx conc in 100ml
g Na2S = 0.1026 mg/mL =
mL Standard = 1.0 1.0 1.0
mL iodine = 3.0 3.0 3.0
mL thiosulfate = 1.4 1.4 1.4 stkconc (mg/mL)
Sulfide (mg/mL) = [(mL iodine * ni) - (mL thio * nthio)] * 16 / mL standard =

Intermediate Standard
Add 9.8 mL stk to 250 mL 0.01M NaOH = mg/mL

4. Calibration Standard Curve
spectrophotometer used:
Inter Std Volume (mL) | Final Volume (mL) | Calc Conc (mg S/L) | Absorbance @650 nm | AVG ABS | mg/L | Regression Data

| Inter Std Volume (mL) | Final Volume (mL) | Calc Conc (mg S/L) | Absorbance @650 nm | | AVG ABS | mg/L | Regression Data |
|-----------------------|-------------------|--------------------|--------------------|---|---------|------|----------------------------------|
| | | | 1 | 2 | | | |
| 0.00 | 50 | | 0.000 | | | | intercept = <input type="text"/> |
| 0.10 | 50 | | 0.033 | | | | slope = <input type="text"/> |
| 0.25 | 50 | | 0.087 | | | | r = <input type="text"/> |
| 0.50 | 50 | | 0.175 | | | | Comment: <input type="text"/> |
| 1.00 | 50 | | 0.351 | | | | maxabs = <input type="text"/> |
| 1.50 | 50 | | 0.787 | | | | |

Calib Verif Std = 0.5 ml int to 50 ml ZnOAc = mg/l
Distillation Std = 1 ml stk to 100 = mg/l

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | | SAMPLE DATA | |
|--------------|-------------------|----------|------------------|-------------------------|--------------|-----|-------------------------|-----------------|--|
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 650 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) | |
| Soil Samples | (grams) | % Solids | (mL) | | Sample | Bkg | (mg/L) | mg/kg | |
| ICB | | | | | 0.000 | | | | |
| ICV/ICV | | | | | 0.338/0.247 | | | | |
| P. Blank | | | 100 | | 0.357/0.004 | | | | |
| LCS | | | | 10 | 0.264/0.486 | | | | |
| UC2 | | | | 10 | 0.439 | | | | |
| U462A2 | S.1130 | 10.7 | | 10 | 0.748 | | | | |
| | S.150 | | | 10 | 0.655 | | | | |
| | S.174 | | | 20 | 0.880 | | | | |
| | S.122 | 11.0 | | 1 | 0.024 | | | | |
| | S.054 | 10.5 | | 20 | 0.448 | | | | |
| | S.084 | 9.6 | | 10 | 0.580 | | | | |
| | S.253 | 10.8 | | 20 | 1.529 | | | | |
| CCB | | | | | 0.001 | | | | |
| CCV | | | | | 0.370 | | | | |
| U462F2 | S.106 | 11.0 | 100 | 10 | 0.977 | | | | |
| | S.085 | 11.0 | | 13 | 0.301 | | | | |
| | S.129 | 7.9 | | 10 | 0.728 | | | | |
| | 4.755 | 11.1 | | 10 | 1.101 | | | | |
| | 4.992 | 9.7 | | 10 | 1.107 | | | | |
| | S.000 | 9.8 | | 10 | 1.155 | | | | |
| | 4.831 | 10.5 | | 10 | 1.274 | | | | |
| | 4.564 | 10.9 | | 20 | 0.708 | | | | |
| | 4.829 | 10.0 | | 20 | 0.768 | | | | |
| | S.100 | 9.3 | | 10 | 0.609 | | | | |
| CCB | | | | | 0.001 | | | | |
| CCV | | | | | 0.358 | | | | |
| U462G1 | S.154 | 11.0 | 100 | 1 | 0.044 | | | | |
| | S.003 | 7.9 | | 10 | 0.531 | | | | |

SAMPLE DATA

enter dilution as mL final/mL sample

| SAMPLE ID | Distillation Data | | | Spectrophotometric Data | | | SAMPLE DATA | |
|-----------|-------------------|----------|------------------|-------------------------|--------------|-----|-------------------------|-----------------|
| | SAMPLE SIZE | % Solids | TRAP VOLUME (ml) | Dilution Factor | Abs @ 850 nm | | regressed Conc (mg S/L) | CORR CONC (ppm) |
| | | | | | Sample | Bkg | | |
| U05211 | 5.447 | 10.1 | 100 | 10 | 0.610 | | | |
| ↓ J1 | 5.254 | 10.6 | | 10 | 0.349 | | | |
| ↓ E1 | 5.376 | 10.5 | | 20 | 0.445 | | | |
| U05211 | 5.1740 | 10.7 | | 20 | 0.362 | | | |
| ↓ E2 | 5.253 | 10.8 | | 20 | 0.351 | | | |
| ↓ F2 | 5.106 | 11.0 | | 20 | 0.465 | | | |
| U05211 | 4.992 | 9.7 | | 20 | 0.558 | | | |
| CCB | | | | 20 | -0.004 | | | |
| CV | | | | | 0.343 | | | |
| U05281 | 5.000 | 9.7 | 100 | 20 | 0.587 | | | |
| ↓ C1 | 4.831 | 10.5 | | 20 | 0.463 | | | |
| CCB | | | | | -0.003 | | | |
| CV | | | | | 0.348 | | | |
| | | | | | | | | |
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Analytical Resources, Incorporated
Analytical Chemists and Consultants

Sulfide Digestion Log

| Sample ID | % Solids | % Water | Pretreatment Data | | | | | | | Sample Extraction Data | | | | |
|-----------|----------|---------|-------------------|---------------|-----------------|--------|-------------|-------------|------------------|------------------------|---------------|------------------|----------------------|------------------|
| | | | Date | Sample Weight | Extract Method* | Acid | Required pH | mL DI Water | Observed mL acid | Date | Sample Weight | mL Acid Required | mL DI Water Required | Trap Volume (mL) |
| PB | | | 5-18-12 | ND | PSEP | HCl/NA | < 3 | NA | NA | 5-18-12 | 100mL | NA | NA | 100mL |
| ZCS | | | | | | | | | | | ↓ | | | |
| UUG2 12 | 10.7 | | | | | | | | | | 5.113 | | 50mL | |
| A2 DW | | | | | | | | | | | 5.150 | | | |
| A2 MS | | | | | | | | | | | 5.174 | | | |
| B2 | 12.0 | | | | | | | | | | 5.122 | | | |
| C2 | 10.5 | | | | | | | | | | 5.054 | | | |
| D2 | 9.6 | | | | | | | | | | 5.084 | | | |
| E2 | 10.8 | | | | | | | | | | 5.253 | | | |
| F2 | 11.0 | | | | | | | | | | 5.106 | | | |
| G2 | 11.0 | | | | | | | | | | 5.085 | | | |
| H2 | 7.9 | | | | | | | | | | 5.139 | | | |
| I2 | 11.1 | | | | | | | | | | 4.754 | | | |
| UUS2 A2 | 9.7 | | | | | | | | | | 4.992 | | | |
| B2 | 9.7 | | | | | | | | | | 5.000 | | | |
| C2 | 10.5 | | | | | | | | | | 4.831 | | | |
| D2 | 10.9 | | | | | | | | | | 4.564 | | | |
| E2 | 10.0 | | | | | | | | | | 4.824 | | | |
| F2 | 8.3 | | | | | | | | | | 5.100 | | | |
| G2 | 6.9 | | | | | | | | | | 5.154 | | | |

1 ml
NA
0012-6
2ml

UUS2: 02244

* Extract Methods: PSEP = PSEP; 9030A = 9030A Acid Soluble; 9030AI = 9030A acid insoluble; AVS = Acid Volatile; Reactive = SW-846 reactive

Analyst Name: CM Date: 5-18-12 Time: 8:40



Sulfide Digestion Log

| Pretreatment Data | | | | | | | | | | Sample Extraction Data | | | | |
|-------------------|----------|---------|---------|---------------|-----------------|------|-------------|-------------|------------------|------------------------|---------------|------------------|----------------------|------------------|
| Sample ID | % Solids | % Water | Date | Sample Weight | Extract Method* | Acid | Required pH | mL DI Water | Observed mL acid | Date | Sample Weight | mL Acid Required | mL DI Water Required | Trap Volume (mL) |
| HEW1 | 17.0 | | 5/18/12 | NA | PSEP | HCl | 4.3 | NA | NA | 5/18/12 | 5.003 | NA | 70ml | 100ml |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.247 | ↓ | ↓ | ↓ |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.259 | ↓ | ↓ | ↓ |
| ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 5.376 | ↓ | ↓ | ↓ |
| LCS 2A | | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 100ml | ↓ | NA | ↓ |

1 ml Stk

NA

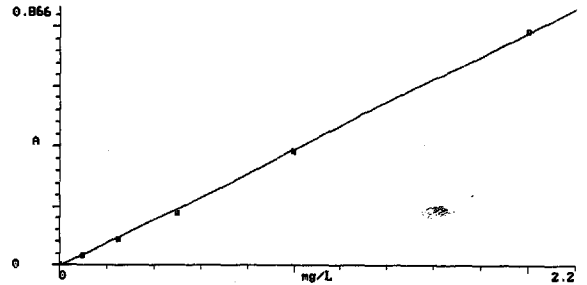
* Extract Methods: PSEP = PSEP; 9030A = 9030A Acid Soluble; 9030AI = 9030A acid insoluble; AVS = Acid Volatile; Reactive = SW-846 reactive

Analyst Name: _____ Date: _____ Time: _____

US2: 02245

TEST SETUP
GENESYS 10 v2.021 2G2G048006

Standard Curve 17:31 18May12
 Test Name SULFIDE[Saved]
 Date Standards Measured 18May12
 Wavelength 650nm
 Ref. Wavelength Correction Off
 Curve Fit Linear
 Number of Standards 6
 Units mg/L
 ID# (0=OFF) Off
 Low/High Limits 0.050/1.000
 Statistics Off
 Auto Print On



Curve Fit Linear
 Slope 0.396
 Intercept -0.0101
 Std Dev 0.009
 Corr Coeff 1.000

| Conc. mg/L | Abs 650nm |
|---------------|--------------|
| 0.000 | 0.000 |
| 0.100 | 0.033 |
| 0.250 | 0.087 |
| 0.500 | 0.175 |
| 1.000 | 0.381 |
| 2.000 | 0.787 |

OK
5-18-12

TEST SETUP
GENESYS 10 v2.021 2G2G048006

Advanced A-X-T-C 17:32 18May12
 Test Name SULFIDE[Saved]
 Measurement Mode Absorbance
 Wavelength 650nm
 Ref. Wavelength Correction Off
 Delay Time (min:sec) 0:00
 ID# (0=OFF) 1
 Low/High Limits 0.000/1.000
 Statistics Off
 Auto Print On

| ID# | Abs 650nm |
|-----|--------------|
| 1 | 0.000 |

2 0.338

3 0.347

4 0.004

5 0.486

6 0.439

7 0.748

8 0.655

9 0.880

10 0.024

11 0.448

12 0.580

13 1.529

14 -0.001

15 0.370

16 0.947

17 0.301

18 0.728

19 1.101

20 1.107

21 1.155

22 1.274

23 0.708

24 0.768

25 0.609

26 -0.001

27 0.358

28 0.048

29 0.531

30 0.610

31 0.749

32 0.445

33 0.362

34 0.391

35 0.465

36 0.610

37 0.558

38 -0.004

39 0.347

40 0.587

41 0.463

42 -0.003

43 0.348

TOC, Solids Data Analysis

Instrument: Apollo 2
 Mode: NPOC Inlet: Boat
 Spike Std = 2,500 ppm C

DATE: 5/24/2012
 ANALYST: KE 11:48

Calibration Data

Cal Curve ID: 4/30/12 BOAT CAL Conc: 5,000 ppm
 Calibration Curve Standard: 00123 - 4 Curve Date: 04/30/12
 CalFact: 2.796E+05 intercept: -226534 r2: 0.99943
 Curve Range (ppm) 200 to 2,500
 Curve Range (µgC): 8 to 100 40 µL injections of designated standard

Verification Standard Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm
 dilution : 10 mL to 50 1,000 ppm

Standard Reference Material Source: NIST 8704 Conc: 33,510 ppm
 Source: NIST 1941B Conc: 29,900 ppm

Silica Blanks

| Replicate determinations | | | | | Mean | RSD | condition |
|--------------------------|------|------|--|--|------|-------|-----------|
| 18.8 | 26.7 | 31.6 | | | 25.7 | 25.1% | OK |

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

| Sample ID | Dilution Data | | | | Spike (µL Std) | Combustion Data | | | comments |
|-----------------------|-----------------|----------------|------------|-----------------|----------------|-----------------|---------------|----------------|------------------|
| | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor | | Burn wt. (mg) | C obs (ppm C) | C corr (ppm C) | |
| ICV | | | | 1.00 | | 40.0 | 971 | 971 | 97.10% |
| Blank | | | | 1.00 | | 40.0 | 24.77 | 25 | Blank OK |
| NIST 1941B | | | - | 1.00 | | 3.5 | 29334 | 29,334 | Offscale, dilute |
| NIST 1941B | | | | 1.00 | | 2.8 | 27419 | 27,419 | 91.70% |
| UU62 A1 | | | - | 1.00 | | 0.8 | 129030 | 129,030 | Offscale, dilute |
| Silica Blanks 1 | | | | 1.00 | | 36.0 | 18.81 | 19 | Low Scale |
| Silica Blanks 2 | | | | 1.00 | | 36.5 | 26.65 | 27 | Low Scale |
| Silica Blanks 3 | | | | 1.00 | | 34.3 | 31.6 | 32 | Low Scale |
| UU62 A1 | 10.0 | 100.0 | 90.00% | 10.00 | | 1.8 | 14036 | 140,129 | Range OK! |
| UU62 A1 dup | 10.4 | 104.0 | 90.00% | 10.00 | | 1.7 | 13357 | 133,339 | RPD=5% |
| UU62 A1 trp | 10.1 | 100.2 | 89.92% | 9.92 | | 1.9 | 14320 | 141,837 | RSD=3.2% |
| UU62 A1 ms | 10.0 | 100.0 | 90.00% | 10.00 | 10 | 1.5 | 34016 | 339,929 | Range OK! |
| Spike = 0.025 mg C to | | 0.2 mg samp= | | 166,667 ppm | | 120% | | | |
| CCV | | | | 1.00 | | 40.0 | 1001 | 1,001 | 100.10% |
| Blank | | | | 1.00 | | 40.0 | 57.85 | 58 | Blank OK |

| Sample Data | | | | | | | | | |
|---|--------------------|-------------------|---------------|--------------------|-------------------------|------------------|------------------|-------------------|-----------|
| <i>"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor</i> | | | | | | | | | |
| Sample ID | Dilution Data | | | | Spike (μ L Std) | Combustion Data | | | comments |
| | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor | | Burn wt. (mg) | C obs (ppm C) | C corr (ppm C) | |
| UU62 B1 | 11.1 | 109.7 | 89.88% | 9.88 | | 0.9 | 32808 | 324,009 | Range OK! |
| UU62 C1 | 11.8 | 117.5 | 89.96% | 9.96 | | 1.3 | 20861 | 207,496 | Range OK! |
| UU62 D1 | 10.7 | 104.2 | 89.73% | 9.74 | | 1.2 | 17437 | 169,583 | Range OK! |
| UU62 E1 | 12.2 | 117.3 | 89.60% | 9.61 | | 1.8 | 16031 | 153,913 | Range OK! |
| UU62 F1 | 11.3 | 112.6 | 89.96% | 9.96 | | 1.4 | 13041 | 129,718 | Range OK! |
| UU62 G1 | 11.2 | 109.1 | 89.73% | 9.74 | | 1.6 | 16535 | 160,844 | Range OK! |
| UU62 H1 | 11.6 | 113.7 | 89.80% | 9.80 | | 1.8 | 20591 | 201,601 | Range OK! |
| UU62 I 1 | 11.2 | 111.3 | 89.94% | 9.94 | | 1.5 | 16041 | 159,178 | Range OK! |
| UU52 A1 | 14.6 | 141.1 | 89.65% | 9.66 | | 1.9 | 18666 | 180,173 | Range OK! |
| UU52 B1 | 11.9 | 110.8 | 89.26% | 9.31 | | 1.5 | 18166 | 168,929 | Range OK! |
| CCV | | | | 1.00 | | 40.0 | 956 | 956 | 95.60% |
| Blank | | | | 1.00 | | 40.0 | 24.33 | 24 | Blank OK |
| UU52 C1 | 12.3 | 119.8 | 89.73% | 9.74 | | 1.8 | 15684 | 152,535 | Range OK! |
| UU52 D1 | 10.4 | 103.6 | 89.96% | 9.96 | | 1.3 | 20977 | 208,733 | Range OK! |
| UU52 E1 | 23.7 | 216.8 | 89.07% | 9.15 | | 1.8 | 18284 | 167,047 | Range OK! |
| UU52 F1 | 12.7 | 121.4 | 89.54% | 9.56 | | 1.8 | 32095 | 306,578 | Range OK! |
| UU52 G1 | 10.3 | 107.5 | 90.42% | 10.44 | | 1.7 | 30151 | 314,440 | Range OK! |
| UU52 H1 | 16.4 | 161.6 | 89.85% | 9.85 | | 1.1 | 15836 | 155,815 | Range OK! |
| UU52 I 1 | 10.2 | 102.0 | 90.00% | 10.00 | | 1.1 | 19014 | 189,909 | Range OK! |
| UU52 J 1 | 10.9 | 103.6 | 89.48% | 9.50 | | 2.2 | 11417 | 108,295 | Range OK! |
| UU52 K1 | 13.7 | 112.8 | 87.85% | 8.23 | | 1.4 | 13394 | 110,095 | Range OK! |
| US34 L (PE) | | | | 1.00 | | 8.8 | 8809 | 8,809 | Range OK! |
| NIST 1941B | | | | 1.00 | | 3.1 | 31263 | 31,263 | 104.56% |
| CCV | | | | 1.00 | | 40.0 | 973 | 973 | 97.30% |
| Blank | | | | 1.00 | | 40.0 | 25.70 | 26 | Blank OK |



① 5-24-12 ④

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 2

| Set-Up Parameters MODE: NPOC | | | | INLET: Boat Sampler | | |
|------------------------------|--------------------|--------------|----------------------|---------------------|----------|--------------------|
| Standards: | Source | | Conc (ppm) | | | |
| Calibration: | ARI - 00123-4 | | 5000 | | | |
| Verification: | ERA - 1513-10-06 | | 5000 to 1000 for CVS | | | |
| SRM: | NBS 1941b or 8704 | | 299.00 | | | |
| Sample Sequence: | | | | | | |
| Sample ID | Dilution Data (mg) | | Burn Wt | Matrix Spike Data | | Comments |
| | Sample | + Silica Gel | mg | mg/L | µL added | |
| 100 | | | 40 | | | |
| 100B | | | 40 | | | |
| NBS 1941B | | | 3.5 | | | off scale - Relute |
| NBS 1941B | | | 2.8 | | | |
| UU62 A1 | | | 0.8 | | | off scale - Relute |
| SB 1 | | | 36.0 | | | |
| ↓ 2 | | | 36.5 | | | |
| ↓ 3 | | | 34.3 | | | |
| UU62 A1 | 10.0 | 100.0 | 1.8 | | | |
| ↓ oPA | 10.4 | 104.0 | 1.7 | | | |
| ↓ 4PA | 10.1 | 100.2 | 1.9 | | | |
| ↓ mSA | 10.0 | 100.0 | 1.5 | 2500 | 10 | |
| CUW | | | 40 | | | |
| CCB | | | 40 | | | |
| UU62 B1 | 11.1 | 109.7 | 0.9 | | | |
| ↓ C1 | 11.8 | 117.8 | 1.3 | | | |
| D1 | 10.7 | 104.2 | 1.2 | | | |
| E1 | 12.2 | 117.3 | 1.8 | | | |
| F1 | 11.3 | 112.6 | 1.4 | | | |
| G1 | 11.2 | 109.1 | 1.6 | | | |
| H1 | 11.6 | 113.7 | 1.8 | | | |
| ↓ I1 | 11.2 | 111.3 | 1.5 | | | |
| UU52 A1 | 14.6 | 141.1 | 1.9 | | | |
| ↓ B1 | 11.9 | 110.8 | 1.5 | | | |
| CUW | | | 40 | | | |
| CCB | | | 40 | | | |
| UU52 C1 | 12.3 | 119.8 | 1.8 | | | |
| ↓ D1 | 10.4 | 103.6 | 1.3 | | | |
| E1 | 23.7 | 216.8 | 1.8 | | | |
| F1 | 12.7 | 121.4 | 1.8 | | | |
| G1 | 10.3 | 107.5 | 1.7 | | | |
| ↓ H1 | 16.4 | 161.6 | 1.1 | | | |

11:48



① 5-24-12 (W)

TOC Solids Sample Run Log
Apollo 9000

Page 2 of 2

| | | |
|------------------------------|-------------------|----------------------|
| Set-Up Parameters MODE: NPOC | | INLET: Boat Sampler |
| Standards: | Source | Conc (ppm) |
| Calibration: | ARI - 00123-4 | 5000 |
| Verification: | ERA - 1513-10-06 | 5000 to 1000 for CVS |
| SRM: | NBS 1941b or 8704 | 299.00 |

11:48

Sample Sequence:

| Sample ID | Dilution Data (mg) | | Burn Wt mg | Matrix Spike Data | | Comments |
|-------------|--------------------|--------------|---------------|-------------------|----------|----------|
| | Sample | + Silica Gel | | mg/L | µL added | |
| WU52 J | 10.2 | 102.0 | 1.1 | | | |
| J' | 10.9 | 103.6 | 2.2 | | | |
| K | 13.7 | 112.8 | 1.4 | | | |
| W534 (P) L | | | 8.8 | | | |
| NB1941 B | | | 3.1 | | | |
| CEW | | 400 | 40 | | | |
| CEB | | 400 | 40 | | | |
| 5-24-12 (W) | | | | | | |

524-12 (u)

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241136
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 11:41
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 971.3245 | 38.8530 | 10637403 | 37.141 | 38.137 | 184 |

Last Message: ~~Out of Calibration~~ oil 5-24-12

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241144
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 11:47
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 24.7707 | 0.9908 | 50518 | 36.955 | 36.934 | 120 |

Last Message: Low Sample Detected

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 05241227
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 12:32
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|----------|----------|--------------------|-----------------|------------------|
| 1 | 29334.1992 | 102.6697 | 28481616 | 36.810 | 37.807 | 277 |

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 05241251
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 12:57
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 27418.7734 | 76.7726 | 21240346 | 36.996 | 37.994 | 270 |

Sample ID: UU62 A1 Mode: TOC
Method: Boat Sampler Filename: 05241308
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:23
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------------|----------|----------|--------------------|-----------------|------------------|
| 1 | 129029.6562 | 103.2237 | 28863064 | 36.915 | 37.913 | 241 |

Last Message: Over-range

Sample ID: Silica Blank 1 Mode: TOC
Method: Boat Sampler Filename: 05241334
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:38
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 18.8074 | 0.6771 | 189319 | 36.892 | 37.892 | 62 |

Sample ID: Silica Blank 2 Mode: TOC
Method: Boat Sampler Filename: 05241345
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 13:48

Operator ID: TRINA

Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 26.6516 | 0.9728 | 272007 | 37.228 | 38.219 | 68 |

Sample ID: Silica Blank 3
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241359
Timestamp: 2012/05/24 14:01
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 31.5980 | 1.0838 | 303052 | 37.059 | 38.056 | 66 |

Sample ID: UU62 A1
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241449
Timestamp: 2012/05/24 14:53
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 14035.7002 | 25.2643 | 7064306 | 37.097 | 38.096 | 174 |

Sample ID: UU62 A1 ^{DB}
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241457
Timestamp: 2012/05/24 15:02
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 13356.9072 | 22.7067 | 6349181 | 37.286 | 38.280 | 159 |

Sample ID: UU62 A1 ^{IP}
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241520
Timestamp: 2012/05/24 15:23
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 14319.8271 | 27.2077 | 7607715 | 37.403 | 38.397 | 166 |

Sample ID: UU62 A1 MS
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241527
Timestamp: 2012/05/24 15:31
Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 34015.6445 | 51.0235 | 14267006 | 37.298 | 38.295 | 211 |

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241537
Timestamp: 2012/05/24 15:41
Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 1001.3187 | 40.0527 | 10972878 | 37.392 | 38.390 | 178 |

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: 43012 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 05241548
Timestamp: 2012/05/24 15:51
Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 57.8453 | 2.3138 | 420446 | 37.024 | 38.019 | 67 |

Sample ID: UU62 B1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241558
 Timestamp: 2012/05/24 16:02
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 32808.4688 | 29.5276 | 8256412 | 36.857 | 37.853 | 169 |

Sample ID: UU62 C1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241622
 Timestamp: 2012/05/24 16:26
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 20860.7637 | 27.1190 | 7582919 | 36.683 | 37.674 | 175 |

Sample ID: UU62 D1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241630
 Timestamp: 2012/05/24 16:34
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 17437.0371 | 20.9244 | 5850821 | 36.974 | 37.972 | 165 |

Sample ID: UU62 ~~E1~~
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241640
 Timestamp: 2012/05/24 16:49
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 16030.5889 | 28.8551 | 8068353 | 37.345 | 38.344 | 187 |

Sample ID: UU62 F1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241652
 Timestamp: 2012/05/24 16:56
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 13040.6104 | 18.2569 | 5104919 | 37.690 | 38.686 | 147 |

Sample ID: UU62 G1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241659
 Timestamp: 2012/05/24 17:03
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 16535.1309 | 26.4562 | 7397594 | 37.853 | 38.852 | 160 |

Sample ID: UU62 H1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241707
 Timestamp: 2012/05/24 17:11
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 20591.4219 | 37.0646 | 10363864 | 37.683 | 38.679 | 177 |

Sample ID: UU62 I 1 Mode: TOC
 Method: Boat Sampler Filename: 05241715
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:18
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 16040.7617 | 24.0611 | 6727894 | 37.313 | 38.303 | 157 |

Sample ID: UU52 A1 Mode: TOC
 Method: Boat Sampler Filename: 05241723
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:27
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18665.8730 | 35.4652 | 9916646 | 36.955 | 37.949 | 184 |

Sample ID: UU52 B1 Mode: TOC
 Method: Boat Sampler Filename: 05241730
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:34
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18165.8848 | 27.2488 | 7619224 | 36.825 | 37.824 | 175 |

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 05241739
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:43
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 956.1100 | 38.2444 | 10467234 | 36.809 | 37.808 | 179 |

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 05241746
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:51
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1 | 24.3262 | 0.9730 | 45546 | 36.453 | 36.455 | 120 |

Last Message: Low Sample Detected

Sample ID: UU52 C1 Mode: TOC
 Method: Boat Sampler Filename: 05241753
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 17:56
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 15683.7822 | 28.2308 | 7893802 | 36.443 | 37.437 | 160 |

Sample ID: UU52 D1 Mode: TOC
 Method: Boat Sampler Filename: 05241758
 Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 18:01
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 20976.8145 | 27.2699 | 7625104 | 37.007 | 38.004 | 143 |

Sample ID: UU52 E1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241807
 Timestamp: 2012/05/24 18:10
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 18284.0977 | 32.9114 | 9202566 | 36.346 | 37.343 | 177 |

Sample ID: UU52 F1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241813
 Timestamp: 2012/05/24 18:18
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 32095.4609 | 57.7718 | 16153960 | 36.423 | 37.419 | 204 |

Sample ID: UU52 G1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241820
 Timestamp: 2012/05/24 18:25
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 30150.9082 | 51.2565 | 14332179 | 36.400 | 37.398 | 233 |

Sample ID: UU52 H1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241827
 Timestamp: 2012/05/24 18:31
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 15836.4854 | 17.4201 | 4870958 | 36.736 | 37.736 | 130 |

Sample ID: UU52 I 1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241833
 Timestamp: 2012/05/24 18:37
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 19014.4082 | 20.9158 | 5848418 | 36.683 | 37.682 | 145 |

Sample ID: UU52 J1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241841
 Timestamp: 2012/05/24 18:46
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1 | 11417.4170 | 25.1183 | 7023497 | 36.703 | 37.703 | 154 |

Sample ID: UU52 K1
 Method: Boat Sampler
 Cal. Curve: 43012 BOAT CAL
 Operator ID: TRINA
 Mode: TOC
 Filename: 05241851
 Timestamp: 2012/05/24 18:54
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 13394.1924 | 18.7519 | 5243333 | 36.458 | 37.458 | 147 |

Sample ID: US34 L (PE) Mode: TOC
Method: Boat Sampler Filename: 05241857
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:02
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 8809.4980 | 77.5236 | 21676876 | 36.423 | 37.421 | 281 |

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 05241910
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:15
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 31263.0469 | 96.9154 | 26872630 | 36.223 | 37.220 | 251 |

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 05241918
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:22
Operator ID: TRINA Sample Type: Cal. Verification

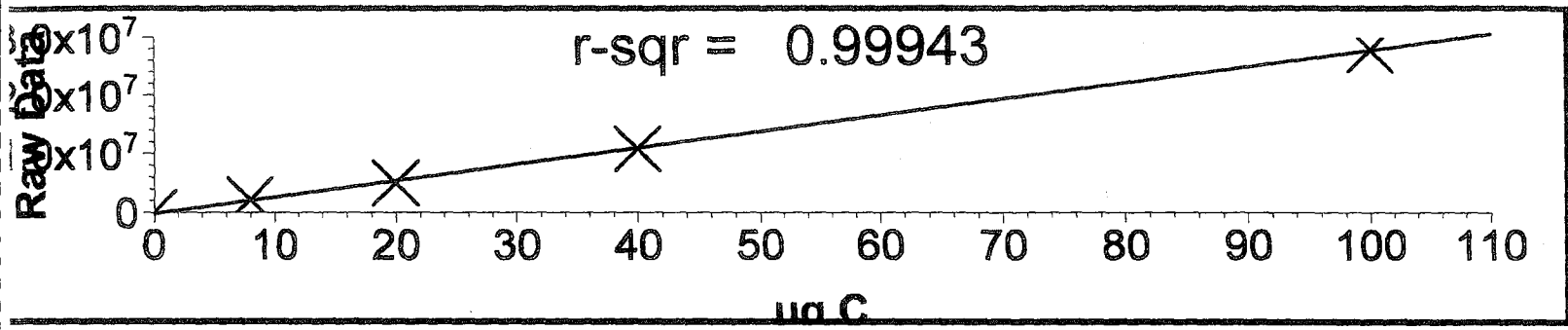
| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 973.2827 | 38.9313 | 10659304 | 36.274 | 37.273 | 176 |

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 05241923
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/05/24 19:25
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 25.7007 | 1.0280 | 60920 | 35.814 | 36.813 | 50 |

Cal. Curve ID: 43012 BOAT CAL
 Created: 2012/04/30 13:43
 Calibration Factor (m): 2.796e+05
 Y Intercept (b): -226534
 r-squared: 0.99943

| Standard ID | Y | X Expected | Measured | Message | Date & Time |
|-------------|----------|------------|----------|---------------|------------------|
| DI WATER | 52595 | 0.000 | 0.998 | | 2012/04/30 11:58 |
| 200 | 2144822 | 8.000 | 8.481 | | 2012/04/30 12:17 |
| 500 | 4986789 | 20.000 | 18.645 | | 2012/04/30 12:34 |
| 1000 | 10792143 | 40.000 | 39.406 | | 2012/04/30 12:59 |
| 2500 | 27866566 | 100.000 | 100.470 | Max Integrati | 2012/04/30 13:42 |



```

=====
Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:  04301036
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 10:51
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 47566 | 33.280 | 33.185 | 120 |
| 2 | | | 203139 | 33.304 | 34.302 | 63 |
| 3 | | | 1104 | 33.476 | 33.511 | 120 |

```

-----
Last Message: Low Sample Detected
<<<Statistics>>> Mean: 83936 Std Dev: 105814 RSD: 126.06
=====
    
```

```

Sample ID:  200                Mode:      TOC
Method:     Boat Sampler       Filename:  04301053
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 10:56
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 1241941 | 33.597 | 34.592 | 83 |

```

=====
Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:  04301141
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 11:43
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 723490 | 34.109 | 41.661 | 46 |

```

-----
Last Message: Canceled
=====
    
```

```

Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:  04301150
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 11:58
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 92631 | 34.301 | 35.189 | 120 |
| 2 | | | 19076 | 34.635 | 34.665 | 120 |
| 3 | | | 46077 | 35.023 | 36.011 | 43 |

```

-----
Last Message: Low Sample Detected
<<<Statistics>>> Mean: 52595 Std Dev: 37208 RSD: 70.75
=====
    
```

```

Sample ID:  200                Mode:      TOC
Method:     Boat Sampler       Filename:  04301202
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 12:17
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 2354047 | 34.824 | 35.822 | 117 |
| 2 | | | 2071224 | 34.958 | 35.956 | 106 |
| 3 | | | 2009197 | 35.047 | 36.046 | 100 |

```

-----
<<<Statistics>>> Mean: 2144823 Std Dev: 183829 RSD: 8.57
=====
    
```

```

Sample ID:  500                Mode:      TOC
Method:     Boat Sampler       Filename:  04301220
Cal. Curve: 43012 BOAT CAL    Timestamp: 2012/04/30 12:34
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 5039759 | 35.057 | 36.056 | 104 |
| 2 | | | 4609986 | 35.167 | 36.164 | 123 |
| 3 | | | 5310623 | 35.293 | 36.291 | 131 |

<<<Statistics>>> Mean: 4986790 Std Dev: 353309 RSD: 7.08

Sample ID: 1000 Mode: TOC
Method: Boat Sampler Filename: 04301241
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 12:59
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 10754481 | 35.424 | 36.423 | 161 |
| 2 | | | 10442873 | 36.018 | 37.015 | 150 |
| 3 | | | 11179075 | 36.556 | 37.551 | 190 |

<<<Statistics>>> Mean: 10792143 Std Dev: 369543 RSD: 3.42

Sample ID: 2500 Mode: TOC
Method: Boat Sampler Filename: 04301309
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:42
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1 | | | 29661636 | 37.962 | 38.960 | 254 |
| 2 | | | 29032984 | 38.591 | 39.586 | 273 |
| 3 | | | 24905076 | 39.615 | 40.673 | 300 |

Last Message: Max Integration Time Reached

<<<Statistics>>> Mean: 27866566 Std Dev: 2583915 RSD: 9.27

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 04301346
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:51
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1 | 1028.4240 | 41.1370 | 11276042 | 40.270 | 41.269 | 235 |

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 04301352
Cal. Curve: 43012 BOAT CAL Timestamp: 2012/04/30 13:55
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1 | 23.6818 | 0.9473 | 38339 | 40.923 | 41.149 | 120 |

Last Message: Low Sample Detected

**Geotechnical Raw Data
Analyst Notes and Raw Data**

ARI Job ID: UU52, UU62

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: C-1 Client Sample No.: MS002-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>115</u> |
| Tare Weight | <u>1.5226</u> |
| Wet Weight + Tare | <u>26.8264</u> |
| Dry Weight + Tare | <u>4.1030</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>115</u> |
| Tare Weight | <u>51.2844</u> |
| Wet Weight + Tare | <u>144.6142</u> |
| Dry Weight + Tare | <u>54.3063</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: kb

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|------------|---------------|---------------|
| 10:09:00 | | | |
| 10:09:20 | <u>C11</u> | <u>1.5283</u> | <u>1.6777</u> |
| 10:10:46 | <u>C12</u> | <u>1.5232</u> | <u>1.6678</u> |
| 10:16:05 | <u>C13</u> | <u>1.5368</u> | <u>1.6444</u> |
| 10:37:18 | <u>C14</u> | <u>1.5240</u> | <u>1.6076</u> |
| 12:02:00 | <u>C15</u> | <u>1.5219</u> | <u>1.5757</u> |
| 15:35:00 | <u>C16</u> | <u>1.5087</u> | <u>1.5536</u> |
| 8:45:00 | <u>C17</u> | <u>1.5062</u> | <u>1.5405</u> |

SIEVE ANALYSIS

Sieve Date: 5-21-2012

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>51.3476</u> |
| 4 | <u>51.3476</u> |
| 10 | <u>51.3828</u> |
| 18 | <u>52.7330</u> |
| 35 | <u>53.3044</u> |
| 60 | <u>53.7241</u> |
| 120 | <u>54.0082</u> |
| 230 | <u>54.2244</u> |
| PAN | <u>.2274</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: C-2 Client Sample No.: MS002-SS-120515

Set-up Date: 05/18/12 Sample Description: _____

SOLIDS CONTENT

| | |
|-------------------|----------------------|
| Moisture Content | Initials: <u>kel</u> |
| Container No. | <u>142</u> |
| Tare Weight | <u>1.5386</u> |
| Wet Weight + Tare | <u>26.2812</u> |
| Dry Weight + Tare | <u>4.0695</u> |

| | |
|-------------------|----------------------|
| Test Sample | Initials: <u>kel</u> |
| Container No. | <u>142</u> |
| Tare Weight | <u>50.6905</u> |
| Wet Weight + Tare | <u>144.4374</u> |
| Dry Weight + Tare | <u>53.4802</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: PK

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|------------|---------------|---------------|
| 10:12:00 | | | |
| 10:12:20 | <u>C21</u> | <u>1.5354</u> | <u>1.6908</u> |
| 10:13:46 | <u>C22</u> | <u>1.5363</u> | <u>1.6886</u> |
| 10:19:05 | <u>C23</u> | <u>1.5302</u> | <u>1.6443</u> |
| 10:40:18 | <u>C24</u> | <u>1.5312</u> | <u>1.6182</u> |
| 12:05:00 | <u>C25</u> | <u>1.5295</u> | <u>1.5842</u> |
| 15:38:00 | <u>C26</u> | <u>1.5033</u> | <u>1.5492</u> |
| 8:48:00 | <u>C27</u> | <u>1.5097</u> | <u>1.5455</u> |

SIEVE ANALYSIS

Sieve Date: 5-21-2012

Sieve Set #: 2 Initials: PK

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.7552</u> |
| 4 | <u>50.8139</u> |
| 10 | <u>50.8438</u> |
| 18 | <u>51.8080</u> |
| 35 | <u>52.3723</u> |
| 60 | <u>52.7741</u> |
| 120 | <u>53.0709</u> |
| 230 | <u>53.3156</u> |
| PAN | <u>.2782</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: C-3 Client Sample No.: MS002-SS-120515
 Set-up Date: 05/18/12 Sample Description: _____

SOLIDS CONTENT

| | | |
|-------------------|----------------|----------------------|
| Moisture Content | | Initials: <u>leb</u> |
| Container No. | <u>145</u> | |
| Tare Weight | <u>1.5745</u> | |
| Wet Weight + Tare | <u>25.1975</u> | |
| Dry Weight + Tare | <u>3.9966</u> | |

| | | |
|-------------------|-----------------|----------------------|
| Test Sample | | Initials: <u>leb</u> |
| Container No. | <u>145</u> | |
| Tare Weight | <u>50.7661</u> | |
| Wet Weight + Tare | <u>146.1496</u> | |
| Dry Weight + Tare | <u>54.6611</u> | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CR

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|------------|---------------|---------------|
| 10:15:00 | | | |
| 10:15:20 | <u>C31</u> | <u>1.5337</u> | <u>1.6710</u> |
| 10:16:46 | <u>C32</u> | <u>1.5417</u> | <u>1.6763</u> |
| 10:22:05 | <u>C33</u> | <u>1.5333</u> | <u>1.6412</u> |
| 10:43:18 | <u>C34</u> | <u>1.5411</u> | <u>1.6222</u> |
| 12:08:00 | <u>C35</u> | <u>1.5384</u> | <u>1.5895</u> |
| 15:41:00 | <u>C36</u> | <u>1.5318</u> | <u>1.5747</u> |
| 8:51:00 | <u>C37</u> | <u>1.5309</u> | <u>1.5644</u> |

SIEVE ANALYSIS

Sieve Date: 5-21-2012

Sieve Set #: 1 Initials: CR

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.8527</u> |
| 4 | <u>50.8527</u> |
| 10 | <u>51.1144</u> |
| 18 | <u>52.6273</u> |
| 35 | <u>53.3200</u> |
| 60 | <u>53.8102</u> |
| 120 | <u>54.1514</u> |
| 230 | <u>54.4180</u> |
| PAN | <u>.3087</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: A Client Sample No.: M5001-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and some debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>bb</u> |
| Container No. | <u>146</u> |
| Tare Weight | <u>1.5639</u> |
| Wet Weight + Tare | <u>28.1907</u> |
| Dry Weight + Tare | <u>4.2386</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>bb</u> |
| Container No. | <u>146</u> |
| Tare Weight | <u>50.4750</u> |
| Wet Weight + Tare | <u>142.6621</u> |
| Dry Weight + Tare | <u>54.5104</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BR

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:18:00 | | | |
| 10:18:20 | <u>A1</u> | <u>1.5097</u> | <u>1.6328</u> |
| 10:19:46 | <u>A2</u> | <u>1.5485</u> | <u>1.6675</u> |
| 10:25:05 | <u>A3</u> | <u>1.5219</u> | <u>1.6161</u> |
| 10:46:18 | <u>A4</u> | <u>1.5223</u> | <u>1.5945</u> |
| 12:11:00 | <u>A5</u> | <u>1.5197</u> | <u>1.5690</u> |
| 15:44:00 | <u>A6</u> | <u>1.5749</u> | <u>1.6184</u> |
| 8:54:00 | <u>A7</u> | <u>1.5418</u> | <u>1.5790</u> |

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SIEVE ANALYSIS

Sieve Date: 5-21-2012

Sieve Set #: 2 Initials: BR

| Sieve Size | Weight Retained |
|------------|--|
| Tare | <u>50.5419</u> |
| 4 | <u>50.5116</u> ^{50.5419} _m |
| 10 | <u>50.5116</u> ^{50.5419} |
| 18 | <u>52.8042</u> |
| 35 | <u>53.4663</u> |
| 60 | <u>53.8862</u> |
| 120 | <u>54.1632</u> |
| 230 | <u>54.3589</u> |
| PAN | <u>.2649</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

UU52 : 02268

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: B Client Sample No.: MS101-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and some debris

SOLIDS CONTENT

| | | |
|-------------------|----------------|----------------------|
| Moisture Content | | Initials: <u>leb</u> |
| Container No. | <u>159</u> | |
| Tare Weight | <u>1.5589</u> | |
| Wet Weight + Tare | <u>25.4710</u> | |
| Dry Weight + Tare | <u>3.9582</u> | |

| | | |
|-------------------|-----------------|----------------------|
| Test Sample | | Initials: <u>leb</u> |
| Container No. | <u>159</u> | |
| Tare Weight | <u>49.4112</u> | |
| Wet Weight + Tare | <u>145.9912</u> | |
| Dry Weight + Tare | <u>54.3370</u> | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CR

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:21:00 | | | |
| 10:21:20 | <u>B1</u> | <u>1.5147</u> | <u>1.6276</u> |
| 10:22:46 | <u>B2</u> | <u>1.5161</u> | <u>1.6269</u> |
| 10:28:05 | <u>B3</u> | <u>1.5219</u> | <u>1.6104</u> |
| 10:49:18 | <u>B4</u> | <u>1.5287</u> | <u>1.5979</u> |
| 12:14:00 | <u>B5</u> | <u>1.5288</u> | <u>1.5763</u> |
| 15:47:00 | <u>B6</u> | <u>1.5124</u> | <u>1.5534</u> |
| 8:57:00 | <u>B7</u> | <u>1.5456</u> | <u>1.5800</u> |

SIEVE ANALYSIS

Sieve Date: 5-21-2012

Sieve Set #: 1 Initials: CR

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>49.5259</u> |
| 4 | <u>49.5259</u> |
| 10 | <u>50.6657</u> |
| 18 | <u>52.3186</u> |
| 35 | <u>53.0846</u> |
| 60 | <u>53.5467</u> |
| 120 | <u>53.8586</u> |
| 230 | <u>54.0918</u> |
| PAN | <u>.3135</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UUS2 ARI Sample Letter: D Client Sample No.: MS003-SS-120515

Set-up Date: 5-22-2012 Sample Description: Orange Fines & Debits

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>BR</u> |
| Container No. | <u>102</u> |
| Tare Weight | <u>1.5461</u> |
| Wet Weight + Tare | <u>16.9686</u> |
| Dry Weight + Tare | <u>2.9819</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>BR</u> |
| Container No. | <u>102</u> |
| Tare Weight | <u>49.5041</u> |
| Wet Weight + Tare | <u>201.4140</u> |
| Dry Weight + Tare | <u>55.6845</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BR

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:24:00 | | | |
| 10:24:20 | D1 | 1.5431 | 1.7255 |
| 10:25:46 | D2 | 1.5453 | 1.7119 |
| 10:31:05 | D3 | 1.5416 | 1.6383 |
| 10:52:18 | D4 | 1.5617 | 1.6365 |
| 12:17:00 | D5 | 1.5454 | 1.6034 |
| 15:50:00 | D6 | 1.5496 | 1.6039 |
| 9:00:00 | D7 | 1.5396 | 1.5954 |

483^{cc}

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 1 Initials: BR

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 49.6322 |
| 4 | 49.7337 |
| 10 | 50.6913 |
| 18 | 52.3609 |
| 35 | 53.5134 |
| 60 | 54.3145 |
| 120 | 54.8849 |
| 230 | 55.2731 |
| PAN | 0.5313 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: E Client Sample No.: M004-SS-120515

Set-up Date: 5.22.2012 Sample Description: Organic Fines, some Organic Debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>BR</u> |
| Container No. | <u>117</u> |
| Tare Weight | <u>1.5446</u> |
| Wet Weight + Tare | <u>31.6308</u> |
| Dry Weight + Tare | <u>4.5162</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>BR</u> |
| Container No. | <u>117</u> |
| Tare Weight | <u>50.1511</u> |
| Wet Weight + Tare | <u>201.7921</u> |
| Dry Weight + Tare | <u>56.2979</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BR

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:27:00 | | | |
| 10:27:20 | E1 | 1.5185 | 1.7220 |
| 10:28:46 | E2 | 1.5429 | 1.7333 |
| 10:34:05 | E3 | 1.5425 | 1.6572 |
| 10:55:18 | E4 | 1.5385 | 1.6279 |
| 12:20:00 | E5 | 1.5670 | 1.6337 |
| 15:53:00 | E6 | 1.5373 | 1.5944 |
| 9:03:00 | E7 | 1.5130 | 1.5589 |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 2 Initials: BR

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 50.2502 |
| 4 | 50.2502 |
| 10 | 50.9449 |
| 18 | 52.1659 |
| 35 | 53.2943 |
| 60 | 54.2935 |
| 120 | 55.0857 |
| 230 | 55.6337 |
| PAN | 0.7583 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U152 ARI Sample Letter: F Client Sample No.: MS005-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and debris (large twigs)

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>165</u> |
| Tare Weight | <u>1.5569</u> |
| Wet Weight + Tare | <u>28.0460</u> |
| Dry Weight + Tare | <u>3.8376</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>165</u> |
| Tare Weight | <u>50.7926</u> |
| Wet Weight + Tare | <u>165.0214</u> |
| Dry Weight + Tare | <u>57.7985</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CR

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------------|---------------|-------------------|
| 10:30:00 | | | |
| 10:30:20 | F1 | <u>1.5249</u> | <u>1.5991</u> |
| 10:31:46 | <u>F2</u> | <u>1.5462</u> | <u>1.6190</u> |
| 10:37:05 | <u>F3</u> | <u>1.5530</u> | <u>1.6179</u> |
| 10:58:18 | <u>F4</u> | <u>1.5521</u> | <u>1.6046</u> |
| 12:23:00 | <u>F5</u> | <u>1.5494</u> | 1.6336 |
| 15:56:00 | <u>F6</u> | <u>1.5541</u> | <u>1.5861</u> |
| 9:06:00 | <u>F7</u> | <u>1.5488</u> | <u>1.5764</u> |

5905

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.8912</u> |
| 4 | <u>51.1424</u> |
| 10 | <u>52.7740</u> |
| 18 | <u>54.1397</u> |
| 35 | <u>55.2440</u> |
| 60 | <u>56.1764</u> |
| 120 | <u>56.8286</u> |
| 230 | <u>57.2289</u> |
| PAN | <u>0.557481</u> |

SALT CORRECTION

3.4g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

~~RESPLIT~~

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: G Client Sample No.: MS006-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and mostly debris
(1.5" debris excluded)
diameter

SOLIDS CONTENT

| | |
|-------------------|------------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>166</u> |
| Tare Weight | <u>1.5544</u> 1.5537 * |
| Wet Weight + Tare | <u>28.6715</u> 18.8582 |
| Dry Weight + Tare | <u>4.0520</u> 3.2334 |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>166</u> |
| Tare Weight | <u>50.8403</u> |
| Wet Weight + Tare | <u>181.3984</u> |
| Dry Weight + Tare | <u>61.2147</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CB

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:33:00 | | | |
| 10:33:20 | <u>G1</u> | <u>1.5133</u> | <u>1.5727</u> |
| 10:34:46 | <u>G2</u> | <u>1.5142</u> | <u>1.5721</u> |
| 10:40:05 | <u>G3</u> | <u>1.5122</u> | <u>1.5643</u> |
| 11:01:18 | <u>G4</u> | <u>1.5145</u> | <u>1.5581</u> |
| 12:26:00 | <u>G5</u> | <u>1.5176</u> | <u>1.5512</u> |
| 15:59:00 | <u>G6</u> | <u>1.5216</u> | <u>1.5497</u> |
| 9:09:00 | <u>G7</u> | <u>1.5327</u> | <u>1.5551</u> |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.9335</u> |
| 4 | <u>50.9813</u> |
| 10 | <u>52.9902</u> |
| 18 | <u>55.3977</u> |
| 35 | <u>57.4921</u> |
| 60 | <u>59.0891</u> |
| 120 | <u>60.1000</u> |
| 230 | <u>60.7250</u> |
| PAN | <u>0.5729</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

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* moisture content redo.

UU52 : 02273

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: H Client Sample No.: MSD07-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and debris

SOLIDS CONTENT

| | | |
|-------------------|----------------|----------------------|
| Moisture Content | | Initials: <u>klb</u> |
| Container No. | <u>172</u> | |
| Tare Weight | <u>1.5638</u> | |
| Wet Weight + Tare | <u>26.7949</u> | |
| Dry Weight + Tare | <u>5.8038</u> | |

| | | |
|-------------------|-----------------|----------------------|
| Test Sample | | Initials: <u>klb</u> |
| Container No. | <u>172</u> | |
| Tare Weight | <u>50.7376</u> | |
| Wet Weight + Tare | <u>174.7784</u> | |
| Dry Weight + Tare | <u>64.2657</u> | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: klb

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:36:00 | | | |
| 10:36:20 | <u>H1</u> | <u>1.5287</u> | <u>1.7226</u> |
| 10:37:46 | <u>H2</u> | <u>1.5347</u> | <u>1.6838</u> |
| 10:43:05 | <u>H3</u> | <u>1.5344</u> | <u>1.6432</u> |
| 11:04:18 | <u>H4</u> | <u>1.5287</u> | <u>1.6076</u> |
| 12:29:00 | <u>H5</u> | <u>1.5299</u> | <u>1.5802</u> |
| 16:02:00 | <u>H6</u> | <u>1.5221</u> | <u>1.5633</u> |
| 9:12:00 | <u>H7</u> | <u>1.5355</u> | <u>1.5675</u> |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: klb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.8000</u> |
| 4 | <u>50.8703</u> |
| 10 | <u>51.0490</u> |
| 18 | <u>54.4648</u> |
| 35 | <u>56.4839</u> |
| 60 | <u>58.1849</u> |
| 120 | <u>60.1761</u> |
| 230 | <u>62.3102</u> |
| PAN | <u>2.1591</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: 11152 ARI Sample Letter: I Client Sample No.: MS008-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and mostly debris

SOLIDS CONTENT

| | |
|-------------------|----------------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>174</u> |
| Tare Weight | 1.5717 1.5498 |
| Wet Weight + Tare | 45.1727 26.5340 |
| Dry Weight + Tare | 6.3689 4.7257 |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>174</u> |
| Tare Weight | <u>49.3566</u> |
| Wet Weight + Tare | <u>184.3567</u> |
| Dry Weight + Tare | <u>63.8897</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CR

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:39:00 | | | |
| 10:39:20 | I1 | 1.5461 | 1.6216 |
| 10:40:46 | I2 | 1.5458 | 1.6190 |
| 10:46:05 | I3 | 1.5477 | 1.6125 |
| 11:07:18 | I4 | 1.5437 | 1.5947 |
| 12:32:00 | I5 | 1.5414 | 1.5791 |
| 16:05:00 | I6 | 1.5438 | 1.5717 |
| 9:15:00 | I7 | 1.5502 | 1.5716 |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 49.4822 |
| 4 | 55.5918 |
| 10 | 57.0519 |
| 18 | 59.0052 |
| 35 | 60.2405 |
| 60 | 61.1683 |
| 120 | 61.8845 |
| 230 | 62.4158 |
| PAN | 0.8339 |

SALT CORRECTION 1.8g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UUS2 ARI Sample Letter: J Client Sample No.: MS009-SS-120515
 Set-up Date: 5-22-2012 Sample Description: Organic Fines, same Organic Debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>BL</u> |
| Container No. | <u>188</u> |
| Tare Weight | <u>1.5413</u> |
| Wet Weight + Tare | <u>25.5176</u> |
| Dry Weight + Tare | <u>3.9523</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>BL</u> |
| Container No. | <u>188</u> |
| Tare Weight | <u>50.3679</u> |
| Wet Weight + Tare | <u>201.4468</u> |
| Dry Weight + Tare | <u>57.2632</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:42:00 | | | |
| 10:42:20 | J1 | 1.5488 | 1.7507 |
| 10:43:46 | J2 | 1.5442 | 1.7149 |
| 10:49:05 | J3 | 1.5400 | 1.6738 |
| 11:10:18 | J4 | 1.5468 | 1.6533 |
| 12:35:00 | J5 | 1.5484 | 1.6223 |
| 16:08:00 | J6 | 1.5500 | 1.6112 |
| 9:18:00 | J7 | 1.5472 | 1.5959 |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 1 Initials: klb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 50.4835 |
| 4 | 50.5226 |
| 10 | 51.3124 |
| 18 | 52.5792 |
| 35 | 53.6485 |
| 60 | 54.5993 |
| 120 | 55.4001 |
| 230 | 56.0806 |
| PAN | 1.2316 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UUS2 ARI Sample Letter: J Client Sample No.: US009-SS-120515

Set-up Date: 5-22-2012 Sample Description: Organic Fines, same Organic Polys

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>BL</u> |
| Container No. | <u>188</u> |
| Tare Weight | <u>1.5413</u> |
| Wet Weight + Tare | <u>25.5176</u> |
| Dry Weight + Tare | <u>3.9523</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>BL</u> |
| Container No. | <u>188</u> |
| Tare Weight | <u>50.3679</u> |
| Wet Weight + Tare | <u>201.4468</u> |
| Dry Weight + Tare | <u>57.2632</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:42:00 | | | |
| 10:42:20 | J1 | 1.5488 | 1.7507 |
| 10:43:46 | J2 | 1.5442 | 1.7149 |
| 10:49:05 | J3 | 1.5400 | 1.6738 |
| 11:10:18 | J4 | 1.5468 | 1.6533 |
| 12:35:00 | J5 | 1.5484 | 1.6223 |
| 16:08:00 | J6 | 1.5500 | 1.6112 |
| 9:18:00 | J7 | 1.5472 | 1.5959 |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 1 Initials: BL

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 50.4835 |
| 4 | 50.5226 |
| 10 | 51.3124 |
| 18 | 52.5792 |
| 35 | 53.6485 |
| 60 | 54.5993 |
| 120 | 55.4001 |
| 230 | 56.0806 |
| PAN | 1.2316 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: K Client Sample No.: MS010-SS-120515

Set-up Date: 5-22-2012 Sample Description: Organic Fines & Debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>BL</u> |
| Container No. | <u>107</u> |
| Tare Weight | <u>1.5406</u> |
| Wet Weight + Tare | <u>23.8149</u> |
| Dry Weight + Tare | <u>3.8104</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>BL</u> |
| Container No. | <u>107</u> |
| Tare Weight | <u>51.1612</u> |
| Wet Weight + Tare | <u>203.1282</u> |
| Dry Weight + Tare | <u>58.7756</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:45:00 | | | |
| 10:45:20 | K1 | 1.5546 | 1.7499 |
| 10:46:46 | K2 | 1.5537 | 1.7210 |
| 10:52:05 | K3 | 1.5520 | 1.6736 |
| 11:13:18 | K4 | 1.5499 | 1.6458 |
| 12:38:00 | K5 | 1.5472 | 1.6155 |
| 16:11:00 | K6 | 1.5495 | 1.6085 |
| 9:21:00 | K7 | 1.5440 | 1.5907 |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 51.2419 |
| 4 | 51.6558 |
| 10 | 53.0011 |
| 18 | 54.4742 |
| 35 | 55.5675 |
| 60 | 56.4609 |
| 120 | 57.1813 |
| 230 | 57.7624 |
| PAN | 1.0769 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Reglot
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U452 ARI Sample Letter: D Client Sample No.: MS003-SS-120515

Set-up Date: 05/18/12 Sample Description: organic debris and roots

SOLIDS CONTENT

| | | |
|-------------------|----------------|----------------------|
| Moisture Content | | Initials: <u>klb</u> |
| Container No. | <u>163</u> | |
| Tare Weight | <u>1.5568</u> | |
| Wet Weight + Tare | <u>27.0263</u> | |
| Dry Weight + Tare | <u>3.9512</u> | |

| | | |
|-------------------|-----------------|----------------------|
| Test Sample | | Initials: <u>klb</u> |
| Container No. | <u>163</u> | |
| Tare Weight | <u>49.9129</u> | |
| Wet Weight + Tare | <u>141.1672</u> | |
| Dry Weight + Tare | <u>55.2024</u> | |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: klb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.0165</u> |
| 4 | <u>50.6823</u> |
| 10 | <u>51.2272</u> |
| 18 | <u>52.7430</u> |
| 35 | <u>53.6891</u> |
| 60 | <u>54.2712</u> |
| 120 | <u>54.6544</u> |
| 230 | <u>54.8892</u> |
| PAN | <u>0.3251</u> |

SALT CORRECTION 3.6g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Resplot
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: 11152 ARI Sample Letter: E Client Sample No.: MS004-SS-120515

Set-up Date: 05/18/12 Sample Description: Organic fines and some debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>164</u> |
| Tare Weight | <u>1.5520</u> |
| Wet Weight + Tare | <u>28.1639</u> |
| Dry Weight + Tare | <u>4.1979</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>164</u> |
| Tare Weight | <u>50.1655</u> |
| Wet Weight + Tare | <u>145.2235</u> |
| Dry Weight + Tare | <u>55.7068</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.2881</u> |
| 4 | <u>50.2881</u> |
| 10 | <u>50.4364</u> |
| 18 | <u>51.3756</u> |
| 35 | <u>52.8633</u> |
| 60 | <u>53.8469</u> |
| 120 | <u>54.4963</u> |
| 230 | <u>54.9583</u> |
| PAN | <u>0.6633</u> |

SALT CORRECTION 4.7g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Resplet
FSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: J Client Sample No.: MS009-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kt</u> |
| Container No. | <u>175</u> |
| Tare Weight | <u>1.5303</u> |
| Wet Weight + Tare | <u>26.0627</u> |
| Dry Weight + Tare | <u>4.0328</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kt</u> |
| Container No. | <u>175</u> |
| Tare Weight | <u>51.7100</u> |
| Wet Weight + Tare | <u>154.4465</u> |
| Dry Weight + Tare | <u>58.6064</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kt

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>51.8180</u> |
| 4 | <u>55.0883</u> |
| 10 | <u>55.4610</u> |
| 18 | <u>56.7755</u> |
| 35 | <u>57.3199</u> |
| 60 | <u>57.6910</u> |
| 120 | <u>57.9663</u> |
| 230 | <u>58.2109</u> |
| PAN | <u>0.4745</u> |

SALT CORRECTION ^{4.0g}

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Resdot
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU52 ARI Sample Letter: K Client Sample No.: MS010-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and debris (leaves)

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>183</u> |
| Tare Weight | <u>1.5293</u> |
| Wet Weight + Tare | <u>28.5431</u> |
| Dry Weight + Tare | <u>4.3462</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>183</u> |
| Tare Weight | <u>50.1317</u> |
| Wet Weight + Tare | <u>162.1158</u> |
| Dry Weight + Tare | <u>57.9773</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.2367</u> |
| 4 | <u>50.3780</u> |
| 10 | <u>52.0966</u> |
| 18 | <u>54.0738</u> |
| 35 | <u>55.2121</u> |
| 60 | <u>56.0023</u> |
| 120 | <u>56.5738</u> |
| 230 | <u>56.9883</u> |
| PAN | <u>0.6908</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU62 ARI Sample Letter: A Client Sample No.: MS110-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>187</u> |
| Tare Weight | <u>1.5340</u> |
| Wet Weight + Tare | <u>24.4385</u> |
| Dry Weight + Tare | <u>3.9320</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>187</u> |
| Tare Weight | <u>51.6329</u> |
| Wet Weight + Tare | <u>140.1905</u> |
| Dry Weight + Tare | <u>56.1097</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: fb

TIME

| Time | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:48:00 | | | |
| 10:48:20 | <u>A1</u> | <u>1.5509</u> | <u>1.6682</u> |
| 10:49:46 | <u>A2</u> | <u>1.5499</u> | <u>1.6633</u> |
| 10:55:05 | <u>A3</u> | <u>1.5466</u> | <u>1.6425</u> |
| 11:16:18 | <u>A4</u> | <u>1.5423</u> | <u>1.6208</u> |
| 12:41:00 | <u>A5</u> | <u>1.5469</u> | <u>1.5970</u> |
| 16:14:00 | <u>A6</u> | <u>1.5483</u> | <u>1.5882</u> |
| 9:24:00 | <u>A7</u> | <u>1.5509</u> | <u>1.5832</u> |

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Rev. 01

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-------------------------------------|
| Tare | <u>51.6947</u> |
| 4 | 51.9343 <u>51.6947</u> |
| 10 | 53.2542 <u>51.9343</u> |
| 18 | 54.1234 <u>53.2542</u> |
| 35 | 54.7217 <u>1234</u> |
| 60 | <u>54.7217</u> |
| 120 | <u>55.1893</u> |
| 230 | <u>55.5412</u> |
| PAN | <u>0.5478</u> 4 <u>u</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

UU52 : 02282

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UU62 ARI Sample Letter: B Client Sample No.: MSD11-SS-120515

Set-up Date: 05/18/12 Sample Description: organic fines and mostly debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>192</u> |
| Tare Weight | <u>1.5367</u> |
| Wet Weight + Tare | <u>26.8762</u> |
| Dry Weight + Tare | <u>3.9940</u> |

| | |
|-------------------|-----------------------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>192</u> |
| Tare Weight | <u>50.3076</u> |
| Wet Weight + Tare | <u>177.0360</u> |
| Dry Weight + Tare | 60.3699 <u>60.3699</u> |

Calgon Batch #: 257

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:51:00 | | | |
| 10:51:20 | <u>B1</u> | <u>1.5623</u> | <u>1.6258</u> |
| 10:52:46 | <u>B2</u> | <u>1.5792</u> | <u>1.6399</u> |
| 10:58:05 | <u>B3</u> | <u>1.5761</u> | <u>1.6329</u> |
| 11:19:18 | <u>B4</u> | <u>1.5705</u> | <u>1.6182</u> |
| 12:44:00 | <u>B5</u> | <u>1.5685</u> | <u>1.6058</u> |
| 16:17:00 | <u>B6</u> | <u>1.5646</u> | <u>1.5940</u> |
| 9:27:00 | <u>B7</u> | <u>1.5623</u> | <u>1.5853</u> |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.3384</u> |
| 4 | <u>50.8763</u> |
| 10 | <u>53.2421</u> |
| 18 | <u>55.4285</u> |
| 35 | <u>57.2076</u> |
| 60 | <u>58.6427</u> |
| 120 | <u>59.5499</u> |
| 230 | <u>60.1164</u> |
| PAN | <u>0.5508</u> |

2.4g

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UUG2 ARI Sample Letter: C Client Sample No.: MS012-SS-120515
 Set-up Date: 5-23-2012 Sample Description: Organic Fines & Dblts

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>CR</u> |
| Container No. | <u>109A</u> |
| Tare Weight | <u>1.5269</u> |
| Wet Weight + Tare | <u>17.0493</u> |
| Dry Weight + Tare | <u>3.0252</u> |

| | |
|-------------------|---------------------------|
| Test Sample | Initials: <u>CR</u> |
| Container No. | <u>109A</u> |
| Tare Weight | <u>51.1594</u> |
| Wet Weight + Tare | <u>201.1164</u> |
| Dry Weight + Tare | <u>58.26125</u> <i>eg</i> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CR

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 10:54:00 | | | |
| 10:54:20 | <u>C1</u> | <u>1.5307</u> | <u>1.6969</u> |
| 10:55:46 | <u>C2</u> | <u>1.5232</u> | <u>1.6740</u> |
| 11:01:05 | <u>C3</u> | <u>1.5486</u> | <u>1.6442</u> |
| 11:22:18 | <u>C4</u> | <u>1.5478</u> | <u>1.6243</u> |
| 12:47:00 | <u>C5</u> | <u>1.5486</u> | <u>1.6130</u> |
| 16:20:00 | <u>C6</u> | <u>1.5480</u> | <u>1.6090</u> |
| 9:30:00 | <u>C7</u> | <u>1.5451</u> | <u>1.5997</u> |

SIEVE ANALYSIS

Sieve Date: 5-24-12

Sieve Set #: 1 Initials: eg

| Sieve Size | Weight Retained |
|------------|---------------------------|
| Tare | <u>51.3621</u> |
| 4 | <u>51.4668</u> |
| 10 | <u>54.4496</u> |
| 18 | <u>56.0412</u> |
| 35 | <u>56.8947</u> |
| 60 | <u>57.4887</u> |
| 120 | <u>57.8943</u> |
| 230 | <u>58.16784</u> <i>eg</i> |
| PAN | <u>0.3399</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: UUG2 ARI Sample Letter: D Client Sample No.: USO13-SS-120515
 Set-up Date: 5.23.2012 Sample Description: Organic Finer & Debris

SOLIDS CONTENT

| | | |
|-------------------|--|---------------------|
| Moisture Content | | Initials: <u>BL</u> |
| Container No. | | <u>173</u> |
| Tare Weight | | <u>1.5254</u> |
| Wet Weight + Tare | | <u>20.2970</u> |
| Dry Weight + Tare | | <u>3.27758</u> |

| | | |
|-------------------|--|---------------------|
| Test Sample | | Initials: <u>BL</u> |
| Container No. | | <u>173</u> |
| Tare Weight | | <u>50.0618</u> |
| Wet Weight + Tare | | <u>204.3727</u> |
| Dry Weight + Tare | | <u>57.9585</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 10:57:00 | | | |
| 10:57:20 | D1 | 1.5542 | 1.7011 |
| 10:58:46 | D2 | 1.5449 | 1.6805 |
| 11:04:05 | D3 | 1.5428 | 1.6415 |
| 11:25:18 | D4 | 1.5429 | 1.6084 |
| 12:50:00 | D5 | 1.5433 | 1.5890 |
| 16:23:00 | D6 | 1.5391 | 1.5784 |
| 9:33:00 | D7 | 1.5320 | 1.5690 |

SIEVE ANALYSIS

Sieve Date: 5.24.12

Sieve Set #: 2 Initials: eg

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.3173</u> |
| 4 | <u>50.3639</u> |
| 10 | <u>53.7088</u> |
| 18 | <u>55.3751</u> |
| 35 | <u>56.3931</u> |
| 60 | <u>56.09260</u> |
| 120 | <u>57.5349</u> |
| 230 | <u>57.7976</u> |
| PAN | <u>0.3455</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No: U1162 ARI Sample Letter: E Client Sample No: MS014-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>212</u> |
| Tare Weight | <u>1.5309</u> |
| Wet Weight + Tare | <u>24.6228</u> |
| Dry Weight + Tare | <u>3.8196</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>212</u> |
| Tare Weight | <u>49.7864</u> |
| Wet Weight + Tare | <u>143.6680</u> |
| Dry Weight + Tare | <u>54.6256</u> |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: CB

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|-----------|---------------|---------------|
| 11:00:00 | | | |
| 11:00:20 | <u>E1</u> | <u>1.5613</u> | <u>1.6689</u> |
| 11:01:46 | <u>E2</u> | <u>1.5641</u> | <u>1.6699</u> |
| 11:07:05 | <u>E3</u> | <u>1.5657</u> | <u>1.6574</u> |
| 11:28:18 | <u>E4</u> | <u>1.5642</u> | <u>1.6341</u> |
| 12:53:00 | <u>E5</u> | <u>1.5615</u> | <u>1.6080</u> |
| 16:26:00 | <u>E6</u> | <u>1.5624</u> | <u>1.6004</u> |
| 9:36:00 | <u>E7</u> | <u>1.5317</u> | <u>1.5235</u> |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>49.8400</u> |
| 4 | <u>49.8400</u> |
| 10 | <u>50.4845</u> |
| 18 | <u>51.7297</u> |
| 35 | <u>52.6842</u> |
| 60 | <u>53.3366</u> |
| 120 | <u>53.7958</u> |
| 230 | <u>54.0966</u> |
| PAN | <u>0.4935</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U162 ARI Sample Letter: F Client Sample No.: MS015-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and debris

SOLIDS CONTENT

| | | |
|-------------------|---------|----------------------|
| Moisture Content | | Initials: <u>klb</u> |
| Container No. | 217 | |
| Tare Weight | 1.5302 | |
| Wet Weight + Tare | 26.6770 | |
| Dry Weight + Tare | 4.1495 | |

| | | |
|-------------------|----------|----------------------|
| Test Sample | | Initials: <u>klb</u> |
| Container No. | 217 | |
| Tare Weight | 49.9762 | |
| Wet Weight + Tare | 153.5721 | |
| Dry Weight + Tare | 55.0849 | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: klb

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 11:03:00 | | | |
| 11:03:20 | F1 | 1.5248 | 1.6532 |
| 11:04:46 | F2 | 1.5241 | 1.6492 |
| 11:10:05 | F3 | 1.5538 | 1.6537 |
| 11:31:18 | F4 | 1.5433 | 1.6178 |
| 12:56:00 | F5 | 1.5354 | 1.5827 |
| 16:29:00 | F6 | 1.5636 | 1.6023 |
| 9:39:00 | F7 | 1.5413 | 1.5739 |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: klb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 50.0455 |
| 4 | 50.4794 |
| 10 | 51.7912 |
| 18 | 53.0154 |
| 35 | 53.8223 |
| 60 | 54.3372 |
| 120 | 54.6307 |
| 230 | 54.7945 |
| PAN | 0.2023 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U462 ARI Sample Letter: G Client Sample No.: MS016-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and debris

SOLIDS CONTENT

| | | |
|-------------------|--|---------------------|
| Moisture Content | | Initials: <u>kb</u> |
| Container No. | | <u>223</u> |
| Tare Weight | | <u>1.5305</u> |
| Wet Weight + Tare | | <u>24.8896</u> |
| Dry Weight + Tare | | <u>4.2537</u> |

| | | |
|-------------------|--|---------------------|
| Test Sample | | Initials: <u>kb</u> |
| Container No. | | <u>223</u> |
| Tare Weight | | <u>49.5627</u> |
| Wet Weight + Tare | | <u>167.0475</u> |
| Dry Weight + Tare | | <u>73.800 kb</u> |

57.7657

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BL

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------------|---------------|
| 11:06:00 | | | |
| 11:06:20 | G1 | <u>1.5488</u> | <u>1.6831</u> |
| 11:07:46 | G2 | <u>1.5394</u> | <u>1.6708</u> |
| 11:13:05 | G3 | <u>1.5512</u> | <u>1.6589</u> |
| 11:34:18 | G4 | <u>1.5623</u> | <u>1.6340</u> |
| 12:59:00 | G5 | <u>1.5487</u> | <u>1.5946</u> |
| 16:32:00 | G6 | <u>1.5558</u> | <u>1.5959</u> |
| 9:42:00 | G7 | <u>1.5356</u> | <u>1.5687</u> |

SIEVE ANALYSIS

Sieve Date: 05/23/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>49.6443</u> |
| 4 | <u>50.5527</u> |
| 10 | <u>52.0169</u> |
| 18 | <u>53.9328</u> |
| 35 | <u>55.3555</u> |
| 60 | <u>56.3420</u> |
| 120 | <u>56.9617</u> |
| 230 | <u>57.3443</u> |
| PAN | <u>0.5690</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: V462 ARI Sample Letter: H Client Sample No.: MS017-SS-120515
 Set-up Date: 05/18/12 Sample Description: Organic fines and debris

SOLIDS CONTENT

| | | |
|-------------------|---------|---------------------|
| Moisture Content | | Initials: <u>RB</u> |
| Container No. | 225 | |
| Tare Weight | 1.5321 | |
| Wet Weight + Tare | 26.9824 | |
| Dry Weight + Tare | 3.4718 | |

| | | |
|-------------------|----------|---------------------|
| Test Sample | | Initials: <u>RB</u> |
| Container No. | 225 | |
| Tare Weight | 49.3647 | |
| Wet Weight + Tare | 160.5373 | |
| Dry Weight + Tare | 55.1418 | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: RB

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 11:09:00 | | | |
| 11:09:20 | H1 | 1.5784 | 1.6526 |
| 11:10:46 | H2 | 1.5540 | 1.6270 |
| 11:16:05 | H3 | 1.5422 | 1.6095 |
| 11:37:18 | H4 | 1.5351 | 1.5872 |
| 13:02:00 | H5 | 1.5384 | 1.5764 |
| 16:35:00 | H6 | 1.5368 | 1.5707 |
| 9:45:00 | H7 | 1.5517 | 1.5813 |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: RB

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | 49.4370 |
| 4 | 49.6583 |
| 10 | 51.0964 |
| 18 | 52.3110 |
| 35 | 53.2829 |
| 60 | 53.9795 |
| 120 | 54.4300 |
| 230 | 54.7191 |
| PAN | 0.3465 |

SALT CORRECTION

3.1g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

PSEP GRAIN SIZE ANALYSIS

ARI Job No.: WUG2 ARI Sample Letter: F Client Sample No.: MS018.SS.120515
 Set-up Date: 5.23.2012 Sample Description: Oregano Fines & Robins

SOLIDS CONTENT

| | | |
|-------------------|----------------|---------------------|
| Moisture Content | | Initials: <u>BR</u> |
| Container No. | <u>177</u> | |
| Tare Weight | <u>1.5556</u> | |
| Wet Weight + Tare | <u>18.5055</u> | |
| Dry Weight + Tare | <u>3.5038</u> | |

| | | |
|-------------------|-----------------|---------------------|
| Test Sample | | Initials: <u>BR</u> |
| Container No. | <u>177</u> | |
| Tare Weight | <u>50.5436</u> | |
| Wet Weight + Tare | <u>200.0182</u> | |
| Dry Weight + Tare | <u>57.6077</u> | |

Calgon Batch #: 267

5/24/2012

PIPETTE ANALYSIS

Temp: 23

Initials: BR

TIME

| TIME | Tare ID | Tare Wt | Dry Wt & Tare |
|----------|---------|---------|---------------|
| 11:12:00 | | | |
| 11:12:20 | I1 | 1.5420 | 1.7693 |
| 11:13:46 | I2 | 1.5276 | 1.7467 |
| 11:19:05 | I3 | 1.5502 | 1.7076 |
| 11:40:18 | I4 | 1.5444 | 1.6568 |
| 13:05:00 | I5 | 1.5528 | 1.6406 |
| 16:38:00 | I6 | 1.5489 | 1.6206 |
| 9:48:00 | I7 | 1.5554 | 1.6106 |

SIEVE ANALYSIS

Sieve Date: 5.24.12

Sieve Set #: 1 Initials: eg

| Sieve Size | Weight Retained |
|------------|--------------------|
| Tare | 50.6958 |
| 4 | 50.6958 |
| 10 | 53.5849 |
| 18 | 545.0736 <u>eg</u> |
| 35 | 55.8616 |
| 60 | 56.4338 |
| 120 | 56.9078 |
| 230 | 57.2734 |
| PAN | 0.4934 |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Replot
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U1162 ARI Sample Letter: C Client Sample No.: MS012-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>198</u> |
| Tare Weight | <u>1.5266</u> |
| Wet Weight + Tare | <u>26.0961</u> |
| Dry Weight + Tare | <u>3.9965</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>198</u> |
| Tare Weight | <u>50.6519</u> |
| Wet Weight + Tare | <u>153.7572</u> |
| Dry Weight + Tare | <u>57.6486</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 2 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>50.7339</u> |
| 4 | <u>52.3535</u> |
| 10 | <u>54.7553</u> |
| 18 | <u>55.8784</u> |
| 35 | <u>56.5892</u> |
| 60 | <u>57.0089</u> |
| 120 | <u>57.2635</u> |
| 230 | <u>57.4035</u> |
| PAN | <u>0.1628</u> |

SALT CORRECTION

3.6g

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Receipt
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: 11162 ARI Sample Letter: D Client Sample No.: MS013-SS-120515
 Set-up Date: 05/18/12 Sample Description: organic fines and debris

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>210</u> |
| Tare Weight | <u>1.5332</u> |
| Wet Weight + Tare | <u>28.0727</u> |
| Dry Weight + Tare | <u>4.0819</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>210</u> |
| Tare Weight | <u>49.8242</u> |
| Wet Weight + Tare | <u>166.2798</u> |
| Dry Weight + Tare | <u>57.0808</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------------------|
| Tare | <u>49.8873</u> |
| 4 | <u>50.2797</u> |
| 10 | <u>51.4747</u> |
| 18 | <u>53.1275</u> |
| 35 | <u>54.4599</u> |
| 60 | <u>55.3916</u> |
| 120 | <u>56.0131</u> |
| 230 | <u>56.4199</u> |
| PAN | <u>0.6388</u> ^{kb} |

4.6g

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Replot
PSEP GRAIN SIZE ANALYSIS

ARI Job No.: U062 ARI Sample Letter: I Client Sample No.: MS018-SS-120515

Set-up Date: 05/18/12 Sample Description: Organic fines

SOLIDS CONTENT

| | |
|-------------------|---------------------|
| Moisture Content | Initials: <u>kb</u> |
| Container No. | <u>229</u> |
| Tare Weight | <u>1.5373</u> |
| Wet Weight + Tare | <u>25.8094</u> |
| Dry Weight + Tare | <u>4.4080</u> |

| | |
|-------------------|---------------------|
| Test Sample | Initials: <u>kb</u> |
| Container No. | <u>229</u> |
| Tare Weight | <u>49.5231</u> |
| Wet Weight + Tare | <u>146.5467</u> |
| Dry Weight + Tare | <u>57.8087</u> |

Calgon Batch #: _____

PIPETTE ANALYSIS

Initials: _____

| | Tare ID | Tare Wt | Dry Wt & Tare |
|--|---------|---------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SIEVE ANALYSIS

Sieve Date: 05/22/12

Sieve Set #: 1 Initials: kb

| Sieve Size | Weight Retained |
|------------|-----------------|
| Tare | <u>49.5776</u> |
| 4 | <u>49.7977</u> |
| 10 | <u>52.0578</u> |
| 18 | <u>54.0900</u> |
| 35 | <u>55.2760</u> |
| 60 | <u>56.0465</u> |
| 120 | <u>56.5999</u> |
| 230 | <u>57.0147</u> |
| PAN | <u>0.6224</u> |

SALT CORRECTION

Date: _____ Initials: _____

| | |
|-------------------|--|
| Tare Weight | |
| Dry Weight + Tare | |

Table of Contents: ARI Job UW85

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Project: 120909-01.01 Jeld Wen Maulsby Marsh

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 BC
Signature

June-12-2012
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

June 12, 2012

David Gillingham
Anchor QEA
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: Client Project: Jeld Wen Maulsby Marsh, 120909-01.01
ARI Job No.: UW85

Dear David:

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

Sample receipt and details 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 "Cheronne Oreiro", written over a circular scribble.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile: UW85

Enclosures

Chain of Custody Documentation

ARI Job ID: UW85

Chain of Custody Record & Laboratory Analysis Request



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

| | | |
|---|-----------------------------------|----------------------------|
| ARI Assigned Number: | Turn-around Requested: Std | Page: 1 of 3 |
| ARI Client Company: Anchor OEA | Phone: 206 287 9130 | Date: 5/16/12 |
| Client Contact: Nathan Soccorsy / David Gillingham | | Ice Present? Yes |
| Client Project Name: Jeld wen Maulsby Marsh | | No. of Coolers: 1 |
| Client Project #: 120909-01.01 | Samplers: DG | Cooler Temps: |

| Sample ID | Date | Time | Matrix | No Containers | Analysis Requested | | | | | | | | | Notes/Comments |
|-----------------|---------|------|--------|---------------|--------------------|--------|------|-----|-------------|-----------|--------|---------|----------|----------------------|
| | | | | | PCB/Pes | metals | SVOC | TPH | EPH Archive | Grain/127 | TS/TOC | Ammonia | Sulfides | |
| MS001-SS-120515 | 5/15/12 | 1339 | Sed | 8 | X | X | X | X | X | X | X | X | X | |
| MS002-SS-120515 | | 1317 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS003-SS-120515 | | 1234 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS004-SS-120515 | | 1153 | | 8 | X | X | X | X | X | X | X | X | X | |
| MS005-SS-120515 | | 855 | | | X | X | X | X | X | X | X | X | X | |
| MS006-SS-120515 | | 916 | | | X | X | X | X | X | X | X | X | X | |
| MS007-SS-120515 | | 945 | | | X | X | X | X | X | X | X | X | X | |
| MS008-SS-120515 | | 940 | | | X | X | X | X | X | X | X | X | X | |
| MS009-SS-120515 | | 1010 | | | X | X | X | X | X | X | X | X | X | |
| MS010-SS-120515 | | 1030 | ✓ | ✓ | | | | | X | X | X | X | X | Hold select Analysis |

| | | | | |
|--|--|--|------------------------------|--------------------------|
| Comments/Special Instructions EPH - extract only & hold. | Relinquished by: (Signature) Cindy Fields | Received by: (Signature) Chris Atwell | Relinquished by: (Signature) | Received by: (Signature) |
| | Printed Name: Cindy Fields | Printed Name: Chris Atwell | Printed Name: | Printed Name: |
| | Company: Anchor OEA | Company: ARI | Company: | Company: |
| | Date & Time: 5/16/2012 10:05am | Date & Time: 5/16/12 10:05 | Date & Time: | Date & Time: |

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

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

00000 : 58MN



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor AEA
 COC No(s): _____ NA
 Assigned ARI Job No: 0052

Project Name: JW - Maulsby Marsh
 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)..... 0.5 0.5 0.5 0.3 4.4 3.0 0.4
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 708 77952
 Cooler Accepted by: CA Date: 5/16/12 Time: 10:05

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: _____ Equipment: _____ Split by: _____

Samples Logged by: TS Date: 5-16-12 Time: 1313

**** 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:

M5101-SS Added to 606 job
Per client request.

By: TS Date: 5-16-12 Its a dupc taken from M5001-SS

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

Subject: UU52/UU62 EPH Triggers

From: Cindy Fields <cfields@anchorqea.com>

Date: 6/1/2012 9:17 AM

To: Cheronne Oreiro <cheronneo@arilabs.com>

CC: Nathan Soccorsy <nsoccorsy@anchorqea.com>, David Gillingham <dgillingham@anchorqea.com>

Hi Cheronne,

Could you please trigger the following samples for EPH analysis?

MS001-SS-120515

MS002-SS-120515

MS003-SS-120515

MS006-SS-120515

Thank you,

Cindy Fields

Scientist

ANCHOR QEA, LLC

cfields@anchorqea.com

D 206.903.3394

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Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: UW85



Case Narrative

Client: Anchor QEA

Project: Jeld Wen Maulsby Marsh, 120909-01.01

ARI Job No.: UW85

Sample Receipt

Four sediment samples were removed from frozen archive June 1, 2012 and logged under ARI job UW85. The samples were analyzed for EPH, as requested. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Extractable Petroleum Hydrocarbons (EPH)

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

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

Sample ID Cross Reference Report



ARI Job No: UW85
Client: Anchor QEA, LLC.
Project Event: 120909-01.01
Project Name: Jeld Wen Maulsby Marsh

| Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|--------------------|------------|-------------|----------|------------------|----------------|
| 1. MS001-SS-120515 | UW85A | 12-10066 | Sediment | 05/15/12 13:39 | 05/16/12 12:26 |
| 2. MS002-SS-120515 | UW85B | 12-10067 | Sediment | 05/15/12 13:17 | 05/16/12 12:26 |
| 3. MS003-SS-120515 | UW85C | 12-10068 | Sediment | 05/15/12 12:34 | 05/16/12 12:26 |
| 4. MS006-SS-120515 | UW85D | 12-10069 | Sediment | 05/15/12 09:16 | 05/16/12 12:26 |



Data Reporting Qualifiers

Effective 2/14/2011

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.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- 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



**Spike Recovery Control Limits for
Extractable Petroleum Hydrocarbons (EPH)
Washington Department of Ecology Interim Method^(1,2)**

Effective: 5/1/09

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

| Sample Matrix | ARI's Calculated Control Limits ⁽³⁾ | |
|--|--|-----------------|
| | Water | Soil / Sediment |
| Sample Amount / Final Volume: | 500 mL / 1 mL | 10 g / 1 mL |
| LCS Spike Recovery⁽⁴⁾ | | |
| C8-C10 Aliphatics | 10 - 100 | 21 - 100 |
| C10-C12 Aliphatics | 14 - 100 | 23 - 100 |
| C12-C16 Aliphatics | 43 - 110 | 30 - 120 |
| C16-C21 Aliphatics | 44 - 122 | 32 - 129 |
| C10-C12 Aromatics | 16 - 105 | 20 - 109 |
| C12-C16 Aromatics | 42 - 116 | 30 - 125 |
| C16-C21 Aromatics | 55 - 127 | 37 - 135 |
| C21-C34 Aromatics | 54 - 136 | 45 - 137 |
| Method Blank/LCS Surrogate Recovery | | |
| Ortho-Terphenyl | 44 - 133 | 34 - 133 |
| 1-Chloro-octadecane | 38 - 121 | 27 - 128 |
| Sample Surrogate Recovery | | |
| Ortho-Terphenyl | 39 - 141 | 10 - 143 |
| 1-Chloro-octadecane | 42 - 120 | 39 - 131 |

(1) Control limits calculated using all available data for 1/1/08 through 11/30/08.

(2) Analytical method published in: *Washington State Department of Ecology, Analytical Methods for Petroleum Hydrocarbons, Publication No. ECY 97-602, June 1997*

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

(4) 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.

**EPH Analysis
Report and Summary QC Forms**

ARI Job ID: UW85

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MS001-SS-120515
SAMPLE

Lab Sample ID: UW85A
 LIMS ID: 12-10066
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 06/04/12
 Percent Moisture: 90.3%

Sample Amount: 0.98 g-dry-wt
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 15:09
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 21:01
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|---------------------------|---------------|----------------|
| C8-C10 Aliphatics | 20,000 | < 20,000 U |
| C10-C12 Aliphatics | 20,000 | < 20,000 U |
| C12-C16 Aliphatics | 20,000 | < 20,000 U |
| C16-C21 Aliphatics | 20,000 | < 20,000 U |
| C21-C34 Aliphatics | 20,000 | 180,000 |
| C8-C10 Aromatics | 20,000 | < 20,000 U |
| C10-C12 Aromatics | 20,000 | < 20,000 U |
| C12-C16 Aromatics | 20,000 | < 20,000 U |
| C16-C21 Aromatics | 20,000 | < 20,000 U |
| C21-C34 Aromatics | 20,000 | 31,000 |

Reported in µg/kg (ppb)

EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 83.5% |
| Aromatic | o-Terphenyl | 73.4% |

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH

Extraction Method: SW3550C

Page 1 of 1


Sample ID: MS002-SS-120515

SAMPLE

Lab Sample ID: UW85B

LIMS ID: 12-10067

Matrix: Sediment

Data Release Authorized: 

Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: 05/15/12

Date Received: 05/16/12

Date Extracted: 06/04/12

Percent Moisture: 89.8%

Sample Amount: 1.04 g-dry-wt

Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 16:24

Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 22:17

Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|---------------------------|---------------|----------------|
| C8-C10 Aliphatics | 19,000 | 19,000 |
| C10-C12 Aliphatics | 19,000 | < 19,000 U |
| C12-C16 Aliphatics | 19,000 | < 19,000 U |
| C16-C21 Aliphatics | 19,000 | 29,000 |
| C21-C34 Aliphatics | 19,000 | 190,000 |
| C8-C10 Aromatics | 19,000 | < 19,000 U |
| C10-C12 Aromatics | 19,000 | < 19,000 U |
| C12-C16 Aromatics | 19,000 | < 19,000 U |
| C16-C21 Aromatics | 19,000 | < 19,000 U |
| C21-C34 Aromatics | 19,000 | 48,000 |

Reported in µg/kg (ppb)

EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 84.4% |
| Aromatic | o-Terphenyl | 75.1% |

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MS003-SS-120515
SAMPLE

Lab Sample ID: UW85C
 LIMS ID: 12-10068
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 06/04/12
 Percent Moisture: 90.7%

Sample Amount: 0.95 g-dry-wt
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 16:49
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 22:42
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|---------------------------|---------------|----------------|
| C8-C10 Aliphatics | 21,000 | < 21,000 U |
| C10-C12 Aliphatics | 21,000 | < 21,000 U |
| C12-C16 Aliphatics | 21,000 | < 21,000 U |
| C16-C21 Aliphatics | 21,000 | 38,000 |
| C21-C34 Aliphatics | 21,000 | 160,000 |
| C8-C10 Aromatics | 21,000 | < 21,000 U |
| C10-C12 Aromatics | 21,000 | < 21,000 U |
| C12-C16 Aromatics | 21,000 | < 21,000 U |
| C16-C21 Aromatics | 21,000 | < 21,000 U |
| C21-C34 Aromatics | 21,000 | 53,000 |

Reported in µg/kg (ppb)


EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 87.3% |
| Aromatic | o-Terphenyl | 72.2% |

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MS006-SS-120515
SAMPLE

Lab Sample ID: UW85D
 LIMS ID: 12-10069
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 06/04/12
 Percent Moisture: 90.8%

Sample Amount: 0.95 g-dry-wt
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 17:14
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 23:07
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|---------------------------|---------------|----------------|
| C8-C10 Aliphatics | 21,000 | 21,000 |
| C10-C12 Aliphatics | 21,000 | < 21,000 U |
| C12-C16 Aliphatics | 21,000 | < 21,000 U |
| C16-C21 Aliphatics | 21,000 | < 21,000 U |
| C21-C34 Aliphatics | 21,000 | 120,000 |
| C8-C10 Aromatics | 21,000 | < 21,000 U |
| C10-C12 Aromatics | 21,000 | < 21,000 U |
| C12-C16 Aromatics | 21,000 | < 21,000 U |
| C16-C21 Aromatics | 21,000 | < 21,000 U |
| C21-C34 Aromatics | 21,000 | 30,000 |

Reported in µg/kg (ppb)

EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 83.0% |
| Aromatic | o-Terphenyl | 73.2% |

ALEPH SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: UW85-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>COD</u> | <u>TOT OUT</u> |
|---------------------|------------|----------------|
| MB-060412 | 81.2% | 0 |
| LCS-060412 | 72.9% | 0 |
| LCSD-060412 | 80.9% | 0 |
| MS001-SS-120515 | 83.5% | 0 |
| MS001-SS-120515 MS | 86.8% | 0 |
| MS001-SS-120515 MSD | 84.5% | 0 |
| MS002-SS-120515 | 84.4% | 0 |
| MS003-SS-120515 | 87.3% | 0 |
| MS006-SS-120515 | 83.0% | 0 |

LCS/MB LIMITS QC LIMITS

(COD) = 1-Chlorooctadecane

(27-128)

(39-131)

Prep Method: SW3550C
Log Number Range: 12-10066 to 12-10069

AREPH SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: UW85-Anchor QEA, LLC.
Project: Jeld Wen Maulsby Marsh
120909-01.01

| <u>Client ID</u> | <u>OTER</u> | <u>TOT OUT</u> |
|---------------------|-------------|----------------|
| MB-060412 | 75.5% | 0 |
| LCS-060412 | 68.6% | 0 |
| LCSD-060412 | 71.1% | 0 |
| MS001-SS-120515 | 73.4% | 0 |
| MS001-SS-120515 MS | 73.4% | 0 |
| MS001-SS-120515 MSD | 70.0% | 0 |
| MS002-SS-120515 | 75.1% | 0 |
| MS003-SS-120515 | 72.2% | 0 |
| MS006-SS-120515 | 73.2% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(34-133)

(10-143)

Prep Method: SW3550C
Log Number Range: 12-10066 to 12-10069

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH

Page 1 of 1

Sample ID: MS001-SS-120515

MS/MSD

Lab Sample ID: UW85A

QC Report No: UW85-Anchor QEA, LLC.

LIMS ID: 12-10066

Project: Jeld Wen Maulsby Marsh

Matrix: Sediment

120909-01.01

Data Release Authorized: *B*

Date Sampled: 05/15/12

Reported: 06/11/12

Date Received: 05/16/12

Date Extracted MS/MSD: 06/04/12

Sample Amount MS: 0.97 g-dry-wt

MSD: 0.98 g-dry-wt

Final Extract Volume MS: 1.0 mL

MSD: 1.0 mL

Aliphatic

Date Analyzed MS: 06/08/12 15:34

Dilution Factor MS: 1.00

MSD: 06/08/12 15:59

MSD: 1.00

Instrument/Analyst MS: FID8/MH

MSD: FID8/MH

Aromatic

Date Analyzed MS: 06/08/12 21:26

Dilution Factor MS: 1.00

MSD: 06/08/12 21:52

MSD: 1.00

Instrument/Analyst MS: FID8/MH

MSD: FID8/MH

| Range | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|--------------------|-----------|--------|----------------|-------------|--------|-----------------|--------------|-------|
| C8-C10 Aliphatics | < 20400 U | 90700 | 155000 | 58.7% | 104000 | 153000 | 67.9% | 13.7% |
| C10-C12 Aliphatics | < 20400 U | 97900 | 155000 | 63.3% | 98000 | 153000 | 64.0% | 0.1% |
| C12-C16 Aliphatics | < 20400 U | 126000 | 155000 | 81.5% | 119000 | 153000 | 77.7% | 5.7% |
| C16-C21 Aliphatics | < 20400 U | 168000 | 155000 | 109% | 154000 | 153000 | 101% | 8.7% |
| C10-C12 Aromatics | < 20400 U | 87600 | 155000 | 56.6% | 96900 | 153000 | 63.3% | 10.1% |
| C12-C16 Aromatics | < 20400 U | 101000 | 155000 | 65.3% | 98000 | 153000 | 64.0% | 3.0% |
| C16-C21 Aromatics | < 20400 U | 233000 | 309000 | 75.3% | 222000 | 306000 | 72.5% | 4.8% |
| C21-C34 Aromatics | 30600 | 264000 | 309000 | 75.5% | 249000 | 306000 | 71.3% | 5.8% |

Results reported in µg/kg

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MS001-SS-120515
MATRIX SPIKE

Lab Sample ID: UW85A
 LIMS ID: 12-10066
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 06/04/12
 Percent Moisture: 90.3%

Sample Amount: 0.97 g-dry-wt
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 15:34
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 21:26
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|--------------------|--------|------------|
| C8-C10 Aliphatics | 21,000 | --- |
| C10-C12 Aliphatics | 21,000 | --- |
| C12-C16 Aliphatics | 21,000 | --- |
| C16-C21 Aliphatics | 21,000 | --- |
| C8-C10 Aromatics | 21,000 | < 21,000 U |
| C10-C12 Aromatics | 21,000 | --- |
| C12-C16 Aromatics | 21,000 | --- |
| C16-C21 Aromatics | 21,000 | --- |
| C21-C34 Aromatics | 21,000 | --- |

Reported in µg/kg (ppb)


EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 86.8% |
| Aromatic | o-Terphenyl | 73.4% |

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MS001-SS-120515
MATRIX SPIKE DUP

Lab Sample ID: UW85A
 LIMS ID: 12-10066
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: 05/15/12
 Date Received: 05/16/12

Date Extracted: 06/04/12
 Percent Moisture: 90.3%

Sample Amount: 0.98 g-dry-wt
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 15:59
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 21:52
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|--------------------|--------|------------|
| C8-C10 Aliphatics | 20,000 | --- |
| C10-C12 Aliphatics | 20,000 | --- |
| C12-C16 Aliphatics | 20,000 | --- |
| C16-C21 Aliphatics | 20,000 | --- |
| C8-C10 Aromatics | 20,000 | < 20,000 U |
| C10-C12 Aromatics | 20,000 | --- |
| C12-C16 Aromatics | 20,000 | --- |
| C16-C21 Aromatics | 20,000 | --- |
| C21-C34 Aromatics | 20,000 | --- |

Reported in µg/kg (ppb)

EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 84.5% |
| Aromatic | o-Terphenyl | 70.0% |

ORGANICS ANALYSIS DATA SHEET

Aliphatic/Aromatic GC-EPH

Page 1 of 1


Sample ID: LCS-060412

LCS/LCSD

Lab Sample ID: LCS-060412

LIMS ID: 12-10066

Matrix: Sediment

Data Release Authorized: 

Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.

Project: Jeld Wen Maulsby Marsh

120909-01.01

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 06/04/12

Sample Amount LCS: 10.0 g-as-rec

LCSD: 10.0 g-as-rec

Final Extract Volume LCS: 1.0 mL

LCSD: 1.0 mL

Aliphatic

Date Analyzed LCS: 06/08/12 13:28

LCSD: 06/08/12 13:53

Dilution Factor LCS: 1.00

LCSD: 1.00

Instrument/Analyst LCS: FID8/MH

LCSD: FID8/MH

Aromatic

Date Analyzed LCS: 06/08/12 19:20

LCSD: 06/08/12 19:46

Dilution Factor LCS: 1.00

LCSD: 1.00

Instrument/Analyst LCS: FID8/MH

LCSD: FID8/MH

| Range | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------------|-------|-----------------|--------------|-------|------------------|---------------|-------|
| C8-C10 Aliphatics | 12000 | 15000 | 80.0% | 10000 | 15000 | 66.7% | 18.2% |
| C10-C12 Aliphatics | 9400 | 15000 | 62.7% | 9700 | 15000 | 64.7% | 3.1% |
| C12-C16 Aliphatics | 12000 | 15000 | 80.0% | 12200 | 15000 | 81.3% | 1.7% |
| C16-C21 Aliphatics | 12000 | 15000 | 80.0% | 13000 | 15000 | 86.7% | 8.0% |
| C10-C12 Aromatics | 9700 | 15000 | 64.7% | 9100 | 15000 | 60.7% | 6.4% |
| C12-C16 Aromatics | 9600 | 15000 | 64.0% | 9400 | 15000 | 62.7% | 2.1% |
| C16-C21 Aromatics | 21300 | 30000 | 71.0% | 21700 | 30000 | 72.3% | 1.9% |
| C21-C34 Aromatics | 20900 | 30000 | 69.7% | 22100 | 30000 | 73.7% | 5.6% |

EPH Surrogate Recovery

| | | LCS | LCSD |
|------------------|--------------------|-------|-------|
| Aliphatic | 1-Chlorooctadecane | 72.9% | 80.9% |
| Aromatic | o-Terphenyl | 68.6% | 71.1% |

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

4
EPH ALIPH METHOD BLANK SUMMARY

BLANK NO.

UW85MBS1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project No.: JELD WEN MAULSBY

Date Analyzed : 06/08/12

Matrix: SOLID

Time Analyzed : 1302

Instrument ID : FID8

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UW85LCSS1 | UW85LCSS1 | 06/08/12 |
| 02 | UW94LCSDS1 | UW85LCSDS1 | 06/08/12 |
| 03 | MS001-SS-120 | UW85A | 06/08/12 |
| 04 | MS001-SS-120 | UW85AMS | 06/08/12 |
| 05 | MS001-SS-120 | UW85AMSD | 06/08/12 |
| 06 | MS002-SS-120 | UW85B | 06/08/12 |
| 07 | MS003-SS-120 | UW85C | 06/08/12 |
| 08 | MS006-SS-120 | UW85D | 06/08/12 |
| 09 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |

4
EPH AROM METHOD BLANK SUMMARY

BLANK NO.

UW85MBS1

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project No.: JELD WEN MAULSBY

Date Analyzed : 06/08/12

Matrix: SOLID

Time Analyzed : 1855

Instrument ID : FID8


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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|----|----------------------|------------------|------------------|
| | ===== | ===== | ===== |
| 01 | UW85LCSS1 | UW85LCSS1 | 06/08/12 |
| 02 | UW85LCSDS1 | UW85LCSDS1 | 06/08/12 |
| 03 | MS001-SS-120 | UW85A | 06/08/12 |
| 04 | MS001-SS-120 | UW85AMS | 06/08/12 |
| 05 | MS001-SS-120 | UW85AMSD | 06/08/12 |
| 06 | MS002-SS-120 | UW85B | 06/08/12 |
| 07 | MS003-SS-120 | UW85C | 06/08/12 |
| 08 | MS006-SS-120 | UW85D | 06/08/12 |
| 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

Aliphatic/Aromatic GC-EPH
Extraction Method: SW3550C
 Page 1 of 1

Sample ID: MB-060412
METHOD BLANK

Lab Sample ID: MB-060412
 LIMS ID: 12-10066
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 06/11/12

QC Report No: UW85-Anchor QEA, LLC.
 Project: Jeld Wen Maulsby Marsh
 120909-01.01
 Date Sampled: NA
 Date Received: NA

Date Extracted: 06/04/12
 Percent Moisture: NA

Sample Amount: 10.0 g-as-rec
 Final Extract Volume: 1.0 mL

Aliphatic

Date Analyzed: 06/08/12 13:02
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

Aromatic

Date Analyzed: 06/08/12 18:55
 Instrument/Analyst: FID8/MH

Dilution Factor: 1.00

| Range | RL | Result |
|--------------------|-------|-----------|
| C8-C10 Aliphatics | 2,000 | < 2,000 U |
| C10-C12 Aliphatics | 2,000 | < 2,000 U |
| C12-C16 Aliphatics | 2,000 | < 2,000 U |
| C16-C21 Aliphatics | 2,000 | < 2,000 U |
| C21-C34 Aliphatics | 2,000 | < 2,000 U |
| C8-C10 Aromatics | 2,000 | < 2,000 U |
| C10-C12 Aromatics | 2,000 | < 2,000 U |
| C12-C16 Aromatics | 2,000 | < 2,000 U |
| C16-C21 Aromatics | 2,000 | < 2,000 U |
| C21-C34 Aromatics | 2,000 | < 2,000 U |

Reported in µg/kg (ppb)

EPH Surrogate Recovery

| | | |
|------------------|--------------------|-------|
| Aliphatic | 1-Chlorooctadecane | 81.2% |
| Aromatic | o-Terphenyl | 75.5% |

6a
 EPH ALIPHATICS INITIAL CALIBRATION
 WA DOE Method

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR

Instrument: FID8.I

Project: JELD WEN MAULSBY

Calibration Date: 18-MAY-2012

SDG No.: UW85

| Aliphatics EPH Range | RF1 20 | RF2 50 | RF3 100 | RF4 150 | RF5 200 | Ave RF | %RSD |
|-------------------------|-----------|-----------|------------|------------|------------|--------|------|
| C8-C10 | 19743 | 19743 | 18783 | 18410 | 20582 | 19452 | 4.4 |
| C10-C12 | 18366 | 18148 | 17433 | 17019 | 19138 | 18021 | 4.6 |
| C12-C16 | 17468 | 17169 | 16604 | 16160 | 17539 | 16988 | 3.5 |
| C16-C21 | 16646 | 16277 | 15748 | 15297 | 17125 | 16219 | 4.4 |
| C21-C34 | 16279 | 16732 | 16490 | 16906 | 18666 | 17015 | 5.6 |

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

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0518A009.D | 18-MAY-2012 12:05 |
| 0518A010.D | 18-MAY-2012 12:30 |
| 0518A011.D | 18-MAY-2012 12:55 |
| 0518A012.D | 18-MAY-2012 13:20 |
| 0518A013.D | 18-MAY-2012 13:46 |
| | 18-MAY-2012 13:46 |

UW85: 00027

6a
 EPH AROMATICS INITIAL CALIBRATION
 WA DOE Method

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR

Instrument: FID8.I

Project: JELD WEN MAULSBY

Calibration Date: 18-MAY-2012

SDG No.: UW85

| Aromatics EPH Range | RF1 20 | RF2 50 | RF3 100 | RF4 150 | RF5 200 | Ave RF | %RSD |
|------------------------|-----------|-----------|------------|------------|------------|--------|------|
| C8-C10 | 20027 | 19417 | 19870 | 21146 | 19509 | 19994 | 3.5 |
| C10-C12 | 19373 | 19093 | 19637 | 20545 | 18711 | 19472 | 3.6 |
| C12-C16 | 18967 | 18573 | 19074 | 19789 | 18051 | 18891 | 3.4 |
| C16-C21 | 22427 | 21852 | 22472 | 23276 | 21709 | 22347 | 2.8 |
| C21-C34 | 25303 | 24075 | 24295 | 24977 | 24387 | 24608 | 2.1 |

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

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0518A031.D | 18-MAY-2012 21:13 |
| 0518A032.D | 18-MAY-2012 21:38 |
| 0518A033.D | 18-MAY-2012 22:03 |
| 0518A034.D | 18-MAY-2012 22:28 |
| 0518A035.D | 18-MAY-2012 22:53 |
| | 18-MAY-2012 22:53 |

UW85: 00028

7
EPH ALIPH CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC Client: ANCHOR
 SDG No.: UW85 Project No.: JELD WEN MAULSBY
 Instrument/Det: FID8/ZB-5 Calibration Date: 06/08/12
 Init. Calib. Date(s): 05/18/12 Calib. File: 0608A003.D

| COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | %D |
|---------------------|-------|-----------|-------|------------------------|-----------------------|-------|
| | | FROM | TO | | | |
| C8 | 1.11 | 1.09 | 1.19 | 95.24 | 100.0 | -4.7 |
| C10 | 3.27 | 3.23 | 3.33 | 92.66 | 100.0 | -7.3 |
| C12 | 4.09 | 4.05 | 4.15 | 90.42 | 100.0 | -9.5 |
| C16 | 5.25 | 5.21 | 5.31 | 88.75 | 100.0 | -11.2 |
| C21 | 6.86 | 6.82 | 6.92 | 108.6 | 100.0 | 8.6 |
| C34 | 11.83 | 11.79 | 11.89 | 96.90 | 100.0 | -3.1 |
| 1-Chloro-Octodecane | 6.80 | 6.76 | 6.86 | 108.5 | 100.0 | 8.5 |

7
EPH ALIPH CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project No.: JELD WEN MAULSBY

Instrument/Det: FID8/ZB-5

Calibration Date: 06/08/12

Init. Calib. Date(s): 05/18/12

Calib. File: 0608A015.D

| COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | %D |
|---------------------|-------|-----------|-------|---------------------------|--------------------------|-------|
| | | FROM | TO | | | |
| C8 | 1.11 | 1.09 | 1.19 | 90.43 | 100.0 | -9.5 |
| C10 | 3.27 | 3.23 | 3.33 | 94.33 | 100.0 | -5.6 |
| C12 | 4.09 | 4.05 | 4.15 | 92.57 | 100.0 | -7.4 |
| C16 | 5.25 | 5.21 | 5.31 | 89.43 | 100.0 | -10.5 |
| C21 | 6.84 | 6.82 | 6.92 | 109.4 | 100.0 | 9.4 |
| C34 | 11.82 | 11.79 | 11.89 | 100.3 | 100.0 | 0.3 |
| 1-Chloro-Octodecane | 6.79 | 6.76 | 6.86 | 109.2 | 100.0 | 9.2 |

EPH AROM CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project No.: JELD WEN MAULSBY

Instrument/Det: FID8/ZB-5

Calibration Date: 06/08/12

Init. Calib. Date(s): 05/18/12

Calib. File: 0608A017.D

| COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | %D |
|--------------------|-------|-----------|-------|---------------------------|--------------------------|--------|
| | | FROM | TO | | | |
| 1-chlorooctodecane | 6.78 | 6.73 | 6.83 | 0.000 | 100.0 | -100.0 |
| Toluene | 0.75 | 0.70 | 0.80 | 96.11 | 100.0 | -3.8 |
| 1,2,3-Trimetben | 3.38 | 3.33 | 3.43 | 96.85 | 100.0 | -3.1 |
| Naphthalene | 4.06 | 4.01 | 4.11 | 96.99 | 100.0 | -3.0 |
| Acenaphthene | 5.00 | 4.95 | 5.05 | 96.54 | 100.0 | -3.4 |
| Pyrene | 7.01 | 6.96 | 7.06 | 102.7 | 100.0 | 2.7 |
| Benzo-ghi-per | 11.51 | 11.45 | 11.55 | 87.44 | 100.0 | -12.5 |
| o-Terph Surr | 6.08 | 6.03 | 6.13 | 97.44 | 100.0 | -2.5 |

EPH AROM CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project No.: JELD WEN MAULSBY

Instrument/Det: FID8/ZB-5

Calibration Date: 06/08/12

Init. Calib. Date(s): 05/18/12

Calib. File: 0608A029.D

| COMPOUND | RT | RT WINDOW | | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | %D |
|--------------------|-------|-----------|-------|---------------------------|--------------------------|--------|
| | | FROM | TO | | | |
| 1-chlorooctodecane | 6.78 | 6.73 | 6.83 | 0.000 | 100.0 | -100.0 |
| Toluene | 0.75 | 0.70 | 0.80 | 98.69 | 100.0 | -1.3 |
| 1,2,3-Trimetben | 3.38 | 3.33 | 3.43 | 97.84 | 100.0 | -2.1 |
| Naphthalene | 4.06 | 4.01 | 4.11 | 96.57 | 100.0 | -3.4 |
| Acenaphthene | 5.00 | 4.95 | 5.05 | 93.00 | 100.0 | -7.0 |
| Pyrene | 7.01 | 6.96 | 7.06 | 102.0 | 100.0 | 2.0 |
| Benzo-ghi-per | 11.50 | 11.45 | 11.55 | 87.31 | 100.0 | -12.6 |
| o-Terph Surr | 6.08 | 6.03 | 6.13 | 93.14 | 100.0 | -6.8 |

EPH ALIPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project: JELD WEN MAULSBY

Instrument ID: FID8

GC Detector: ZB-5

Run Date: 06/08/12

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

| METHOD SURROGATE RT | | | | |
|----------------------|------------------|------------------|------------------|------------|
| S1 : 6.81 | | | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | SURR RT |
| ===== | ===== | ===== | ===== | ===== |
| 01 ZZZZZ | ZZZZZ | 06/08/12 | 1147 | |
| 02 ALIPH IB | ALIPH IB | 06/08/12 | 1211 | 6.80 |
| 03 ALIPHATIC #1 | ALIPHATIC #1 | 06/08/12 | 1237 | 6.80 |
| 04 UW85MBS1 | UW85MBS1 | 06/08/12 | 1302 | 6.80 |
| 05 UW85LCSS1 | UW85LCSS1 | 06/08/12 | 1328 | 6.79 |
| 06 UW94LCSDS1 | UW85LCSDS1 | 06/08/12 | 1353 | 6.79 |
| 07 ZZZZZ | ZZZZZ | 06/08/12 | 1418 | 6.83 |
| 08 ZZZZZ | ZZZZZ | 06/08/12 | 1443 | 6.82 |
| 09 MS001-SS-120 | UW85A | 06/08/12 | 1509 | 6.79 |
| 10 MS001-SS-120 | UW85AMS | 06/08/12 | 1534 | 6.79 |
| 11 MS001-SS-120 | UW85AMSD | 06/08/12 | 1559 | 6.79 |
| 12 MS002-SS-120 | UW85B | 06/08/12 | 1624 | 6.79 |
| 13 MS003-SS-120 | UW85C | 06/08/12 | 1649 | 6.79 |
| 14 MS006-SS-120 | UW85D | 06/08/12 | 1714 | 6.79 |
| 15 ALIPHATIC #2 | ALIPHATIC #2 | 06/08/12 | 1740 | 6.79 |

S1 = 1-Chloro-Octodecane QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
EPH AROM ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: UW85

Project: JELD WEN MAULSBY

Instrument ID: FID8

GC Detector: ZB-5

Run Date: 06/08/12

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

| METHOD SURROGATE RT | | | | | |
|---------------------|--------------|-------------|----------|-------|------|
| S1 : 6.08 | | | | | |
| CLIENT | LAB | DATE | TIME | SURR | |
| SAMPLE NO. | SAMPLE ID | ANALYZED | ANALYZED | RT | |
| ===== | ===== | ===== | ===== | ===== | |
| 01 | AROM IB | AROM IB | 06/08/12 | 1805 | 6.08 |
| 02 | AROMATIC #1 | AROMATIC #1 | 06/08/12 | 1830 | 6.08 |
| 03 | UW85MBS1 | UW85MBS1 | 06/08/12 | 1855 | 6.08 |
| 04 | UW85LCSS1 | UW85LCSS1 | 06/08/12 | 1920 | 6.08 |
| 05 | UW85LCSDS1 | UW85LCSDS1 | 06/08/12 | 1946 | 6.07 |
| 06 | ZZZZZ | ZZZZZ | 06/08/12 | 2011 | 6.08 |
| 07 | ZZZZZ | ZZZZZ | 06/08/12 | 2036 | 6.08 |
| 08 | MS001-SS-120 | UW85A | 06/08/12 | 2101 | 6.08 |
| 09 | MS001-SS-120 | UW85AMS | 06/08/12 | 2126 | 6.08 |
| 10 | MS001-SS-120 | UW85AMSD | 06/08/12 | 2152 | 6.08 |
| 11 | MS002-SS-120 | UW85B | 06/08/12 | 2217 | 6.08 |
| 12 | MS003-SS-120 | UW85C | 06/08/12 | 2242 | 6.08 |
| 13 | MS006-SS-120 | UW85D | 06/08/12 | 2307 | 6.08 |
| 14 | AROMATIC #2 | AROMATIC #2 | 06/08/12 | 2332 | 6.08 |

S1 = o-Terph Surr QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

EPH ALIPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: 20120518ALIPH

Project: JELD WEN MAULSBY

Instrument ID: FID8

GC Detector: ZB-5

Run Date: 05/18/12

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

| METHOD SURROGATE RT S1 : 6.81 | | | | |
|----------------------------------|------------------|------------------|------------------|------------|
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | SURR RT |
| ===== | ===== | ===== | ===== | ===== |
| 01 | ALIPH 20 | 05/18/12 | 1141 | 6.82 |
| 02 | ALIPH 20 | 05/18/12 | 1205 | 6.80 |
| 03 | ALIPH 50 | 05/18/12 | 1230 | 6.79 |
| 04 | ALIPH 100 | 05/18/12 | 1255 | 6.80 |
| 05 | ALIPH 150 | 05/18/12 | 1320 | 6.80 |
| 06 | ALIPH 200 | 05/18/12 | 1346 | 6.81 |
| 07 | ALIPH ICV | 05/18/12 | 1411 | 6.80 |

S1 = 1-Chloro-Octodecane QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
EPH AROM ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client: ANCHOR

SDG No.: 20120518AROM

Project: JELD WEN MAULSBY

Instrument ID: FID8

GC Detector: ZB-5

Run Date: 05/18/12

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

| METHOD SURROGATE RT | | | | |
|----------------------|------------------|------------------|------------------|------------|
| S1 : 6.07 | | | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | SURR RT |
| ===== | ===== | ===== | ===== | ===== |
| 01 | ARO IB | 05/18/12 | 2049 | 6.08 |
| 02 | ARO 20 | 05/18/12 | 2113 | 6.07 |
| 03 | ARO 50 | 05/18/12 | 2138 | 6.08 |
| 04 | ARO 100 | 05/18/12 | 2203 | 6.08 |
| 05 | ARO 150 | 05/18/12 | 2228 | 6.08 |
| 06 | ARO 200 | 05/18/12 | 2253 | 6.08 |
| 07 | ARO ICV | 05/18/12 | 2317 | 6.09 |

S1 = o-Terph Surr QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

Total Solids

ARI Job ID: UW85

Extractions Total Solids-extts
Data By: Alex Choeng
Created: 5/16/12

Worklist: 1682
Analyst: AC
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

| | ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|----|-------------------------------------|----------------|---------------|---------------|----------|----|
| 1. | UU52B 12-8894 MS101-SS-120515 | 1.13 | 11.68 | 2.16 | 9.76 | NR |
| 2. | UU52C 12-8895 MS002-SS-120515 | 1.14 | 12.09 | 2.26 | 10.2 | NR |
| 3. | UU52D 12-8896 MS003-SS-120515 | 1.14 | 11.81 | 2.13 | 9.28 | NR |
| 4. | UU52E 12-8897 MS004-SS-120515 | 1.13 | 12.65 | 2.23 | 9.55 | NR |
| 5. | UU52F 12-8898 MS005-SS-120515 | 1.14 | 11.67 | 2.08 | 8.93 | NR |
| 6. | UU52G 12-8899 MS006-SS-120515 | 1.14 | 11.99 | 2.14 | 9.22 | NR |
| 7. | UU52H 12-8900 MS007-SS-120515 | 1.12 | 13.33 | 3.09 | 16.1 | NR |
| 8. | UU52I 12-8901 MS008-SS-120515 | 1.14 | 11.32 | 2.26 | 11.0 | NR |
| 9. | UU52J 12-8902 MS009-SS-120515 | 1.13 | 12.50 | 2.25 | 9.85 | NR |

Extractions Total Solids-extts
Data By: Warren P. Woodard
Created: 5/17/12

Worklist: 2060
Analyst: WPW
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

| ARI ID CLIENT ID | Tare Wt (g) | Wet Wt (g) | Dry Wt (g) | % Solids | pH |
|--|----------------|---------------|---------------|----------|----|
| 1. UU52A 12-8893 MS001-SS-120515 | 1.15 | 13.57 | 2.35 | 9.66 | NR |

00 6/12/10
~~UU52-00380~~
UW85: 00039

**EPH Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: UW85



EPH - Soil / Sediment

Sonication (3550C) (SOP # 3304S)

In-House (2000ppb)

Batch set up by: JA

Preparation Test EPH # 1 (EPHSDCI)

ARI JOB No(s) UW94, UW85

Page 1 of 1

| Bottle # | Extraction Requirements | Weight Extracted (wet wt) | Sonic Horn ID + Check | Fractionate Aromatic/Aliphatic (1:1) | Final Effective Volume | | Volume to Lab | | Comments | Verify Client ID |
|--------------|---------------------------|---------------------------|-----------------------|--------------------------------------|------------------------|-----|---------------|-----|----------|--|
| | | | | | AR | AL | AR | AL | | |
| | <u>UW94</u> MBS | 10.00g | 1 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | NL 6/4/12 |
| | SBS | 10.00g | 2 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | GLS SBS Dup | 10.00g | 3 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | Analyst/Date |
| 2 | A | <u>ip. 09</u> | 4 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | KD 80-85°C To 1mL |
| 2 | B | <u>ip. 07</u> | 5 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | Exchange with 30mL 90:10 Pentane/Hexane 100°C To 1mL |
| 1 | <u>UW85</u> A | <u>ip. 10</u> | 6 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | Analyst/Date |
| 1 | Ams | <u>ip. 06</u> | 7 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | TurboVap 103 Pre-Fractionation |
| 1 | Amsd | <u>ip. 13</u> | 8 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | OSZ 6/7/12 Analyst/Date |
| 1 | B | <u>ip. 19</u> | 9 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | TurboVap 103 Post Fractionation |
| 1 | C | <u>ip. 27</u> | 10 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | OSZ 6/8/12 Analyst/Date |
| 1 | D | <u>ip. 25</u> | 11 | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | OSZ 6/8/12 Analyst/Date |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| | | | | (1:1) 2mL | 1mL | 1mL | 1mL | 1mL | | |
| Analyst/Date | NL 6/4/12 | | | | | | | | | OSZ 6/8/12 Analyst/Date |

| Standard | Standard ID | Concentration | Volume | Expiration Date | Analyst | Witness |
|-------------------------------|-------------------|---------------------|-------------------------------|-----------------|---------|---------|
| Surrogate | M (1962-4) | 1500µg/mL | 100µL | 8/30/12 | NL | AC |
| Spike | 5 (1962-4) | 1500µg/mL | 100µL | 10/04/12 | NL | AC |
| GLS Spike | 22 () | 400µg/mL | 50µL | | | |
| Extraction Time: <u>13:12</u> | | | Balance ID: <u>R139278002</u> | | | |

SPECIAL INSTRUCTIONS: 1. Weigh into 250mL beakers. 2. Dry with neutral sodium sulfate 3. Add surr/spk. 4. Extract 3X with DCM for 5minutes. 5. Collect into KD with small funnel and neutral glasswool **NO SODIUM SULFATE.** 6. KD to no more than 1mL at 80°C. 7. Exchange with 30mL 90:10 Pentane/Hexane. 8. KD to no more than 1mL at 100°C. 9. Let Cool: After cooling: volume should be 5mL 10. TurboVap to 2mL 11. Fractionate Aromatic/Aliphatic- collect each fractions extract into (2) Turbo Tubes. 12. TurboVap to 1mL. 13. Vial both fractions in DCM.

A. Need Total Solids Y/N

UW94 only

B. Archive/Freeze Y/N

UW94

UW85

**EPH Raw Data
Initial Calibration**

ARI Job ID: UW85



Aliphatic

GC Initial Calibration Notes

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) Other

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 5/18/12 Internal Standard ID _____ Expiration 2/1

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? YES / NO
ICal Meets %RSD & r² Criteria YES / NO ICV Exceeding ±30%? YES / NO
Manual Integrations for ICal? YES / NO Linear Fits Used? YES / NO
Minimum Response S/N Met YES / NO Quadratic Fits Used? YES / NO
Calibration Points Dropped? YES / NO

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|----------------|--------------|----------------|---------------------|--------------|----------------|
| <u>ultra</u> | <u>I7251</u> | <u>8/30/12</u> | <u>Accustandard</u> | <u>I7241</u> | <u>8/30/12</u> |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

Detail problems, corrective actions and/or other pertinent information below:

Analyst: [Signature] Date: 5/25/12
Reviewer: [Signature] Date: 5/25/12

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAY-2012 12:05
 End Cal Date : 18-MAY-2012 13:46
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
 Cal Date : 19-May-2012 09:32 j rains
 Curve Type : Average

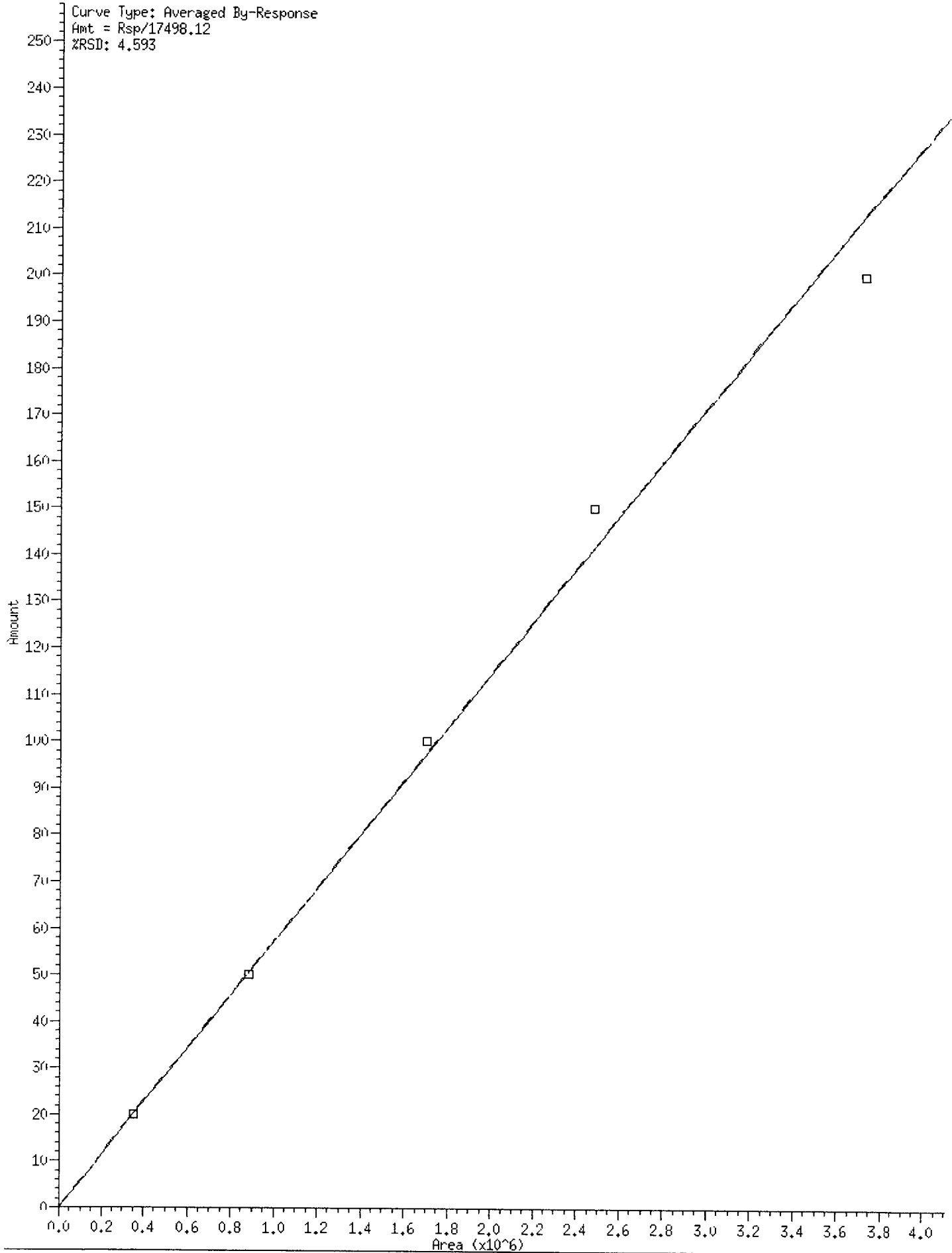
Calibration File Names:

Level 1: /chem2/fid8.i/20120518ALIPH.b/0518A009.D
 Level 2: /chem2/fid8.i/20120518ALIPH.b/0518A010.D
 Level 3: /chem2/fid8.i/20120518ALIPH.b/0518A011.D
 Level 4: /chem2/fid8.i/20120518ALIPH.b/0518A012.D
 Level 5: /chem2/fid8.i/20120518ALIPH.b/0518A013.D

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 150.000 Level 4 | 200.000 Level 5 | RRF | % RSD |
|---------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------|-------|
| 2 C8 | 20340 | 20409 | 19139 | 18795 | 20916 | 19920 | 4.547 |
| 3 C10 | 19145 | 19077 | 18427 | 18024 | 20248 | 18984 | 4.456 |
| 45 C12 | 18366 | 18148 | 17433 | 17019 | 19138 | 18021 | 4.586 |
| 46 C16 | 17468 | 17169 | 16604 | 16160 | 17539 | 16988 | 3.483 |
| 47 C21 | 16646 | 16277 | 15748 | 15297 | 17125 | 16219 | 4.445 |
| 48 C34 | 16279 | 16732 | 16490 | 16906 | 18666 | 17015 | 5.603 |
| \$ 51 1-Chloro-Octodecane | 17683 | 17603 | 17033 | 16512 | 18660 | 17498 | 4.593 |

* 51 1-Chloro-Octodecane

Curve Type: Averaged By-Response
Amt = Rsp/17498.12
%RSD: 4.593



UW85 : 00046

6a
 EPH ALIPHATICS INITIAL CALIBRATION
 WA DOE Method

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20120518ALIPH

Instrument: FID8.I

Project:

Calibration Date: 18-MAY-2012

SDG No.: 20120518ALIPH

| Aliphatics EPH Range | RF1 20 | RF2 50 | RF3 100 | RF4 150 | RF5 200 | Ave RF | %RSD |
|-------------------------|-----------|-----------|------------|------------|------------|--------|------|
| C8-C10 | 19743 | 19743 | 18783 | 18410 | 20582 | 19452 | 4.4 |
| C10-C12 | 18366 | 18148 | 17433 | 17019 | 19138 | 18021 | 4.6 |
| C12-C16 | 17468 | 17169 | 16604 | 16160 | 17539 | 16988 | 3.5 |
| C16-C21 | 16646 | 16277 | 15748 | 15297 | 17125 | 16219 | 4.4 |
| C21-C34 | 16279 | 16732 | 16490 | 16906 | 18666 | 17015 | 5.6 |

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

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0518A009.D | 18-MAY-2012 12:05 |
| 0518A010.D | 18-MAY-2012 12:30 |
| 0518A011.D | 18-MAY-2012 12:55 |
| 0518A012.D | 18-MAY-2012 13:20 |
| 0518A013.D | 18-MAY-2012 13:46 |
| | 18-MAY-2012 13:46 |

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client:

SDG No.: 20120518ALIPH

Project:

Instrument ID: FID8

GC Column: ZB-5

Run Date: 05/18/12

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

| SURROGATE RT FROM DAILY STANDARD | | | | | |
|----------------------------------|------------------|------------------|------------------|----------|---|
| S1 : 6.81 | | | | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | S1 RT | # |
| 01 | ALIPH 20 | 05/18/12 | 1141 | 6.82 | |
| 02 | ALIPH 20 | 05/18/12 | 1205 | 6.80 | |
| 03 | ALIPH 50 | 05/18/12 | 1230 | 6.79 | |
| 04 | ALIPH 100 | 05/18/12 | 1255 | 6.80 | |
| 05 | ALIPH 150 | 05/18/12 | 1320 | 6.80 | |
| 06 | ALIPH 200 | 05/18/12 | 1346 | 6.81 | |
| 07 | ALIPH ICV | 05/18/12 | 1411 | 6.80 | |

S1 = 1-Chloro-Octodecane QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Batch File: /chem2/fid8.i/20120518ALIPH.b
Inst ID: fid8.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 |
|------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0518A009 | 0518A010 | 0518A011 | 0518A012 | 0518A013 |
| INJ. DATE: | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 |
| INJ. TIME: | 12:05 | 12:30 | 12:55 | 13:20 | 13:46 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 2 C8 | 1.132 | 1.135 | 1.130 | 1.131 | 1.141 | 1.132 | 1.082-1.182 | 1.134 | 0.005 |
| 3 C10 | 3.278 | 3.279 | 3.280 | 3.281 | 3.282 | 3.278 | 3.228-3.328 | 3.280 | 0.002 |
| 45 C12 | 4.093 | 4.093 | 4.095 | 4.095 | 4.096 | 4.093 | 4.043-4.143 | 4.094 | 0.002 |
| 46 C16 | 5.255 | 5.255 | 5.256 | 5.258 | 5.261 | 5.255 | 5.205-5.305 | 5.257 | 0.002 |
| \$ 51 1-Chloro-Octadecane | 6.796 | 6.794 | 6.796 | 6.800 | 6.813 | 6.796 | 6.746-6.846 | 6.800 | 0.008 |
| 47 C21 | 6.851 | 6.850 | 6.851 | 6.856 | 6.867 | 6.851 | 6.801-6.901 | 6.855 | 0.007 |
| 48 C34 | 11.824 | 11.827 | 11.827 | 11.830 | 11.838 | 11.824 | 11.774-11.874 | 11.829 | 0.005 |

Reviewer 1
Reviewer 2

Handwritten signature

Date: *5/23/12*
Date: *5/23/12*

61000 : SEMN

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A009.D
Lab Smp Id: ALIPH 20
Inj Date : 18-MAY-2012 12:05
Operator : MH
Smp Info : ALIPH 20
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Meth Date : 19-May-2012 09:48 j rains
Cal Date : 18-MAY-2012 13:46
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Calibration Sample, Level: 1
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | AMOUNTS | |
|------------------------|--------|--------|--------|----|----------|--------------------|-------------------|
| | | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 C8 | 1.132 | 1.141 | -0.009 | | 406804 | 20.0000 | 20.421 |
| 3 C10 | 3.278 | 3.282 | -0.004 | | 382897 | 20.0000 | 20.169 |
| 45 C12 | 4.093 | 4.096 | -0.003 | | 367321 | 20.0000 | 20.383 |
| 46 C16 | 5.255 | 5.261 | -0.006 | | 349352 | 20.0000 | 20.564 |
| 51 1-Chloro-Octadecane | 6.796 | 6.813 | -0.017 | | 353665 | 20.0000 | 20.211 |
| 47 C21 | 6.851 | 6.867 | -0.016 | | 332918 | 20.0000 | 20.526 |
| 48 C34 | 11.824 | 11.838 | -0.014 | | 325586 | 20.0000 | 19.135 |

2012/05/19/12

Data File: /chem2/fid8.1/20120518ALIPH.b/0518A009.D

Date: 18-MAY-2012 12:05

Client ID:

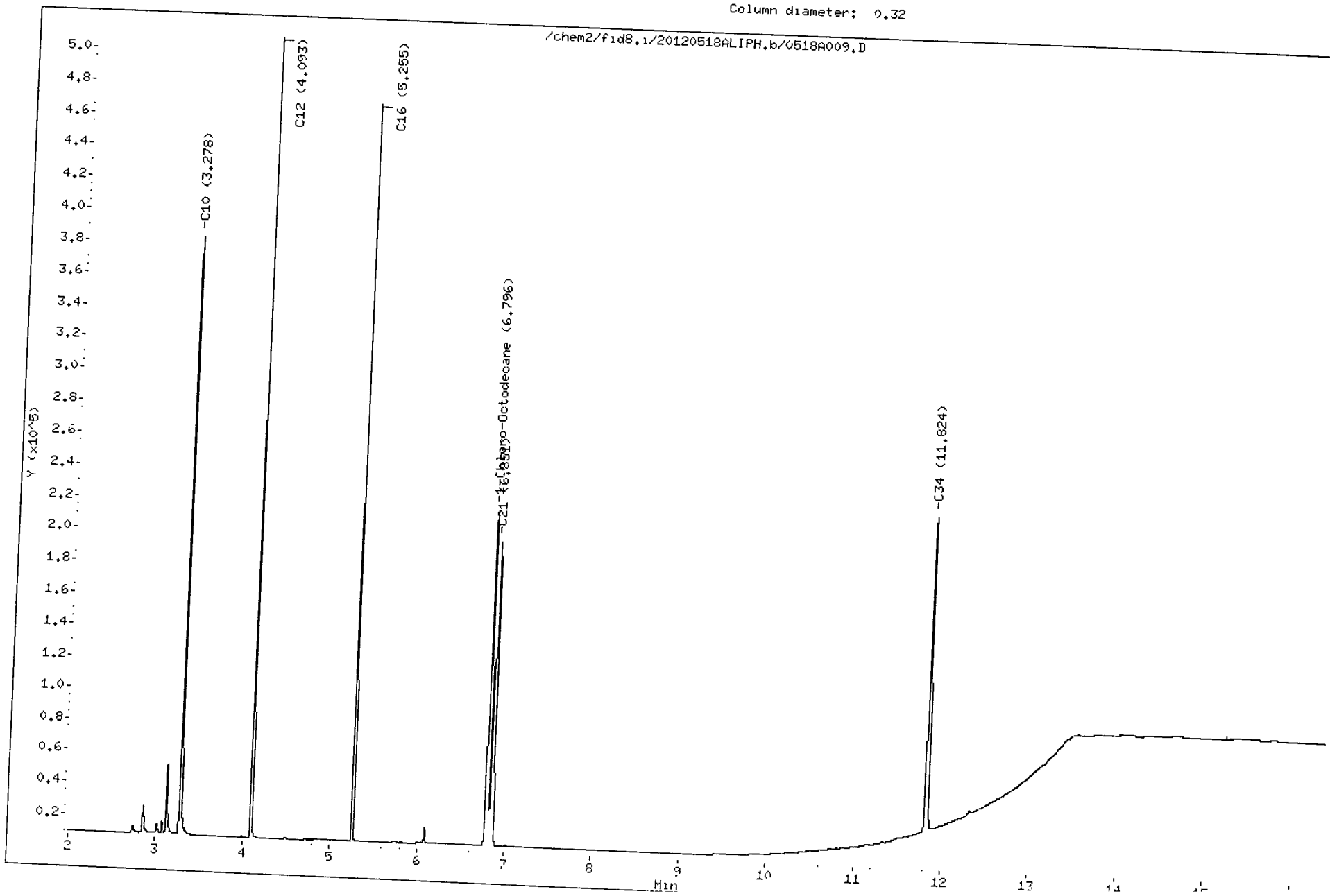
Sample Info: ALIPH 20

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



0518A009.D

Analytical Resources Inc.
 WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120518ALIPH.b/0518A009.D
 Method: /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
 Instrument: fid8.i
 Operator: MH
 Macro: ALIPH120912FID8

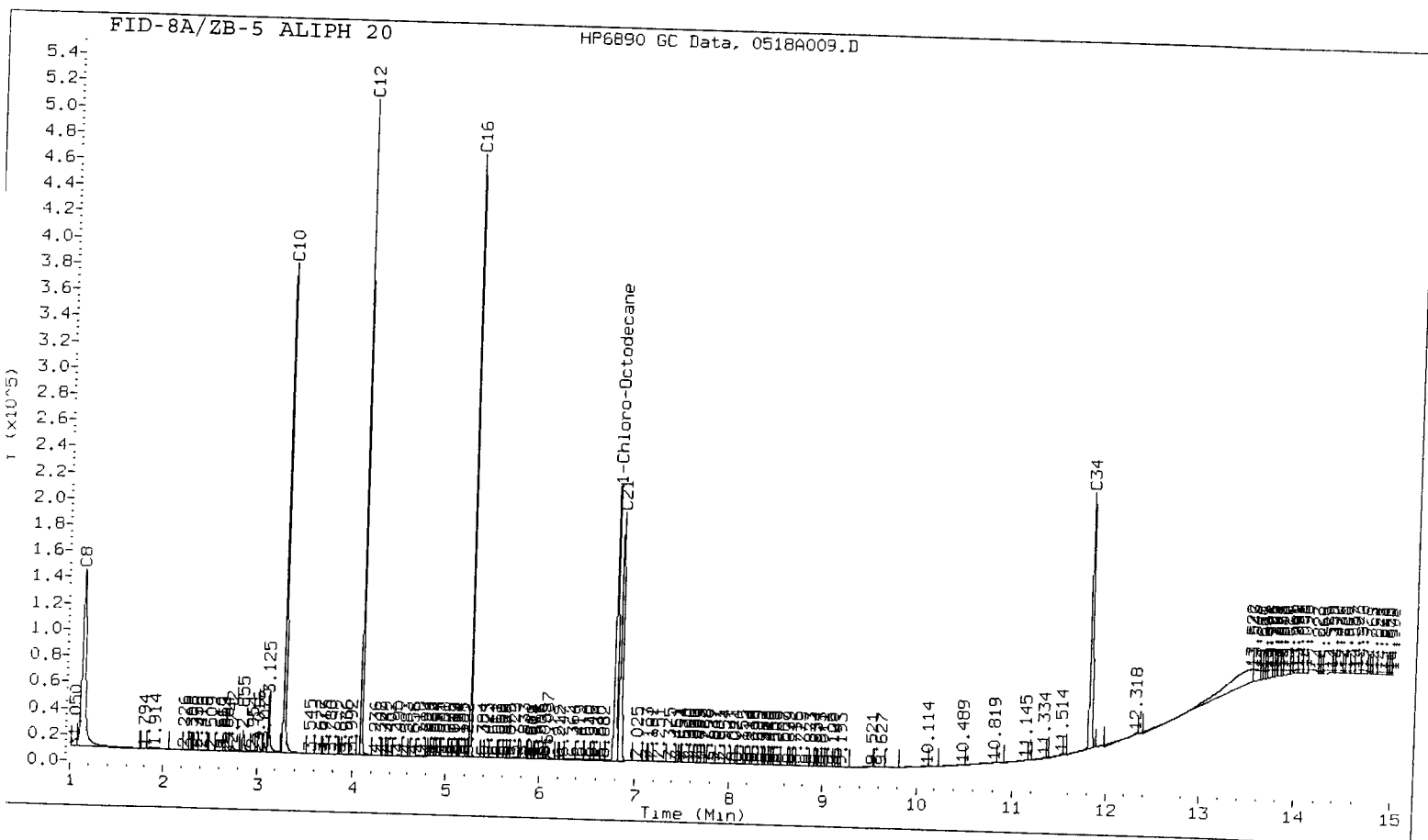
ARI ID: ALIPH 20
 Client ID:
 Injection: 18-MAY-2012 12:05
 Matrix: SOIL
 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|--------|------|------------------|
| C8-C10 Aliph. | 921681 | 47 | (1.041 - 3.382) |
| C10-C12 Aliph. | 369312 | 20 | (3.382 - 4.196) |
| C12-C16 Aliph. | 351527 | 21 | (4.196 - 5.361) |
| C16-C21 Aliph. | 358532 | 22 | (5.361 - 6.967) |
| C21-C34 Aliph. | 350169 | 21 | (6.967 - 11.938) |

Surrogate Rec: 13.5%

R 05/19/12



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A010.D
Lab Smp Id: ALIPH 50
Inj Date : 18-MAY-2012 12:30
Operator : MH
Smp Info : ALIPH 50
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Meth Date : 19-May-2012 09:48 j rains
Cal Date : 18-MAY-2012 13:46
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Calibration Sample, Level: 2
Compound Sublist: waliph.sub

Concentration, Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | | | | AMOUNTS | | |
|---------------------------|--------|--------|--------|----------|--------------------|-------------------|
| | RT | EXP RT | DLT RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 C8 | 1.135 | 1.141 | -0.006 | 1020441 | 50.0000 | 51.227 |
| 3 C10 | 3.279 | 3.282 | -0.003 | 953850 | 50.0000 | 50.244 |
| 45 C12 | 4.093 | 4.096 | -0.003 | 907393 | 50.0000 | 50.353 |
| 46 C16 | 5.255 | 5.261 | -0.006 | 858437 | 50.0000 | 50.532 |
| \$ 51 1-Chloro-Octadecane | 6.794 | 6.813 | -0.019 | 880169 | 50.0000 | 50.300 |
| 47 C21 | 6.850 | 6.867 | -0.017 | 813840 | 50.0000 | 50.179 |
| 48 C34 | 11.827 | 11.838 | -0.011 | 836609 | 50.0000 | 49.169 |

2012/05/19/12

Data File: /chem2/fid8.1/20120518ALIPH.b.0518A010.D

Date: 18-MAY-2012 12:30

Client ID:

Sample Info: ALIPH 50

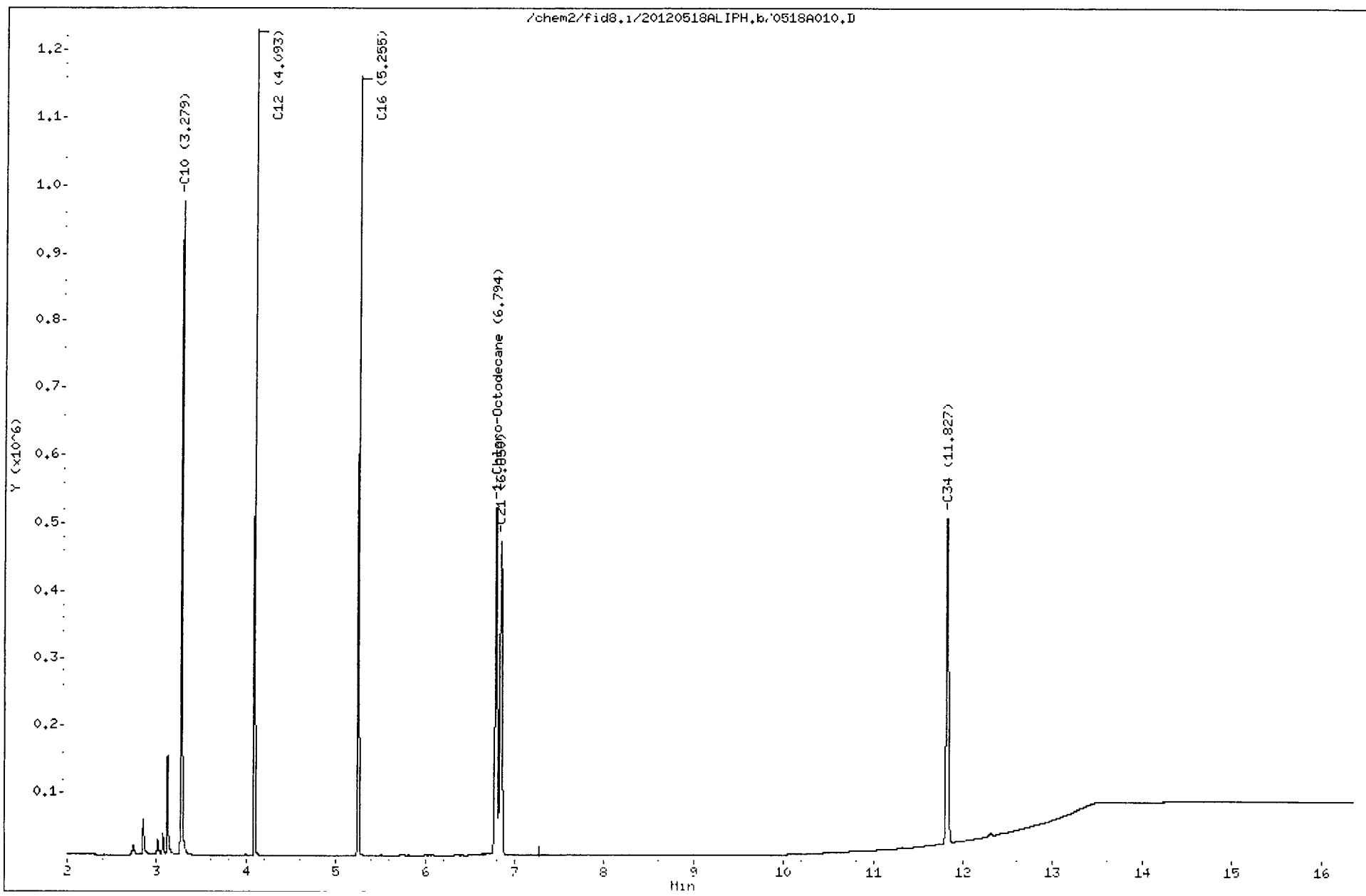
Column phase: ZB-5

Page 2

Instrument: fid8.1

Operator: MH

Column diameter: 0.32



UW85:00054

Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120518ALIPH.b/0518A010.D
Method: /chem2/fid8.i/20120518ALIPH.b/EPHaliph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

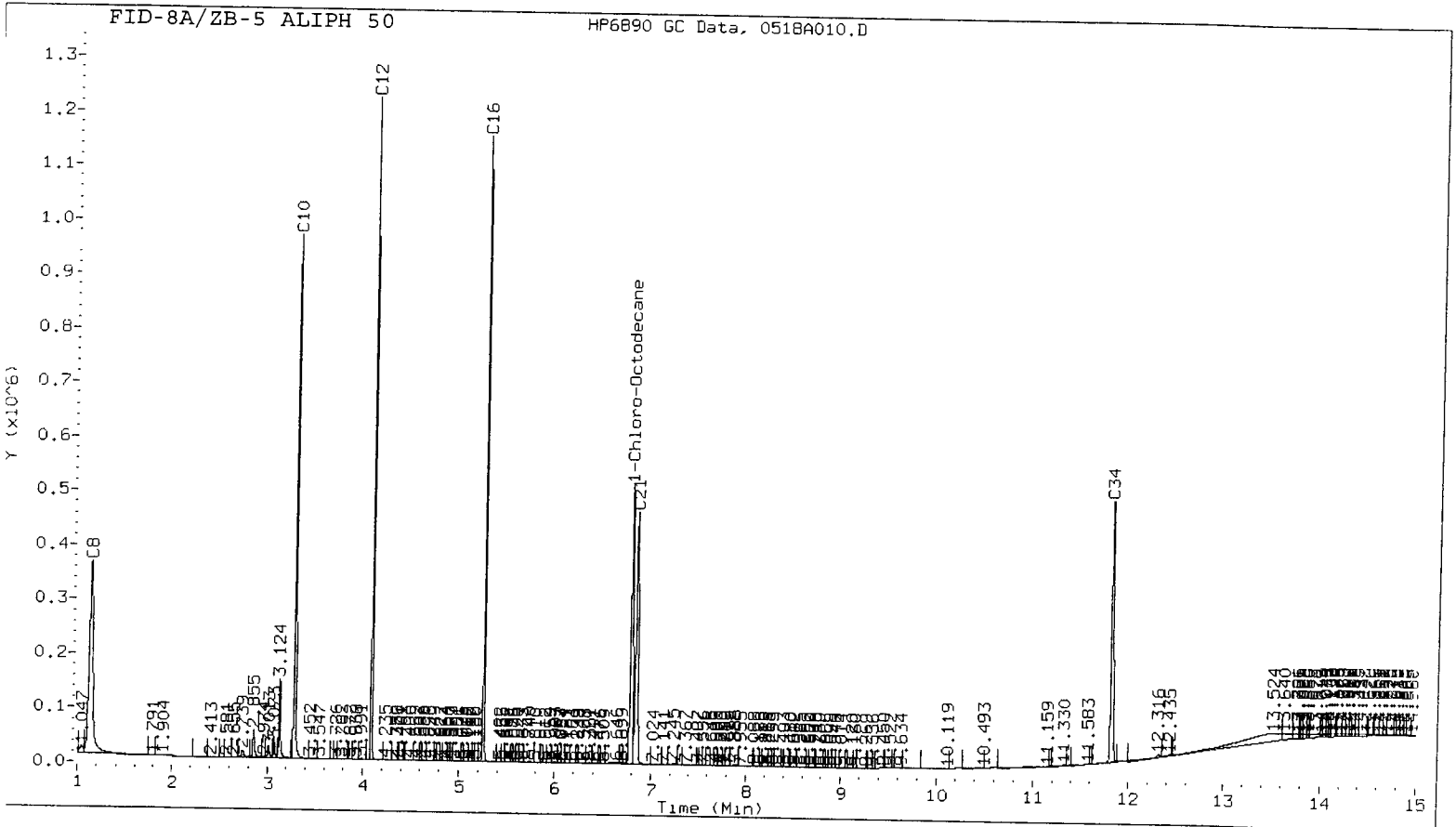
ARI ID: ALIPH 50
Client ID:
Injection: 18-MAY-2012 12:30
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 2354572 | 121 | (1.041 - 3.382) |
| C10-C12 Aliph. | 911868 | 51 | (3.382 - 4.196) |
| C12-C16 Aliph. | 861316 | 51 | (4.196 - 5.361) |
| C16-C21 Aliph. | 854917 | 53 | (5.361 - 6.967) |
| C21-C34 Aliph. | 875939 | 51 | (6.967 - 11.938) |

Surrogate Rec: 33.5%

2012/05/19/12



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A011.D
Lab Smp Id: ALIPH 100
Inj Date : 18-MAY-2012 12:55
Operator : MH
Smp Info : ALIPH 100
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Meth Date : 19-May-2012 09:48 jrains
Cal Date : 18-MAY-2012 13:46
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Calibration Sample, Level: 3
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS | |
|------------------------|--------|--------|--------|----------|--------------------|-------------------|
| | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 C8 | 1.130 | 1.141 | -0.011 | 1913941 | 100.000 | 96.081 |
| 3 C10 | 3.280 | 3.282 | -0.002 | 1842656 | 100.000 | 97.063 |
| 45 C12 | 4.095 | 4.096 | -0.001 | 1743265 | 100.000 | 96.737 |
| 46 C16 | 5.256 | 5.261 | -0.005 | 1660405 | 100.000 | 97.740 |
| 51 1-Chloro-Octadecane | 6.796 | 6.813 | -0.017 | 1703265 | 100.000 | 97.339 |
| 47 C21 | 6.851 | 6.867 | -0.016 | 1574815 | 100.000 | 97.099 |
| 48 C34 | 11.827 | 11.838 | -0.011 | 1648999 | 100.000 | 96.915 |

5/19/12

Data File: /chem2/fid8.1/20120518ALIPH.b/0518A011.D

Date : 18-MAY-2012 12:55

Client ID:

Sample Info: ALIPH 100

Page 2

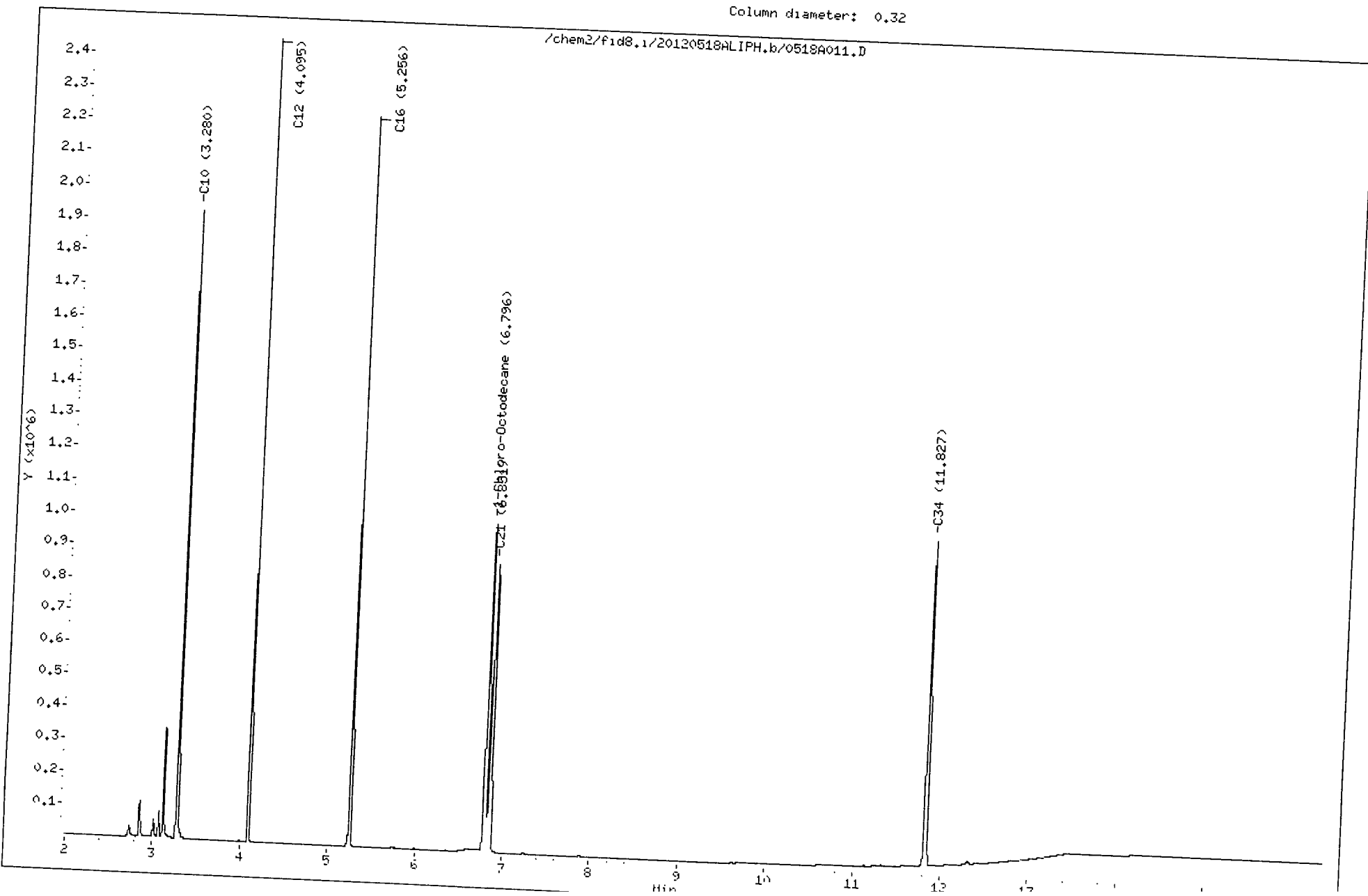
Column phase: ZB-5

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

/chem2/fid8.1/20120518ALIPH.b/0518A011.D



UW85:00057

Analytical Resources Inc.
 WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120518ALIPH.b/0518A011.D
 Method: /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
 Instrument: fid8.i
 Operator: MH
 Macro: ALIPH120912FID8

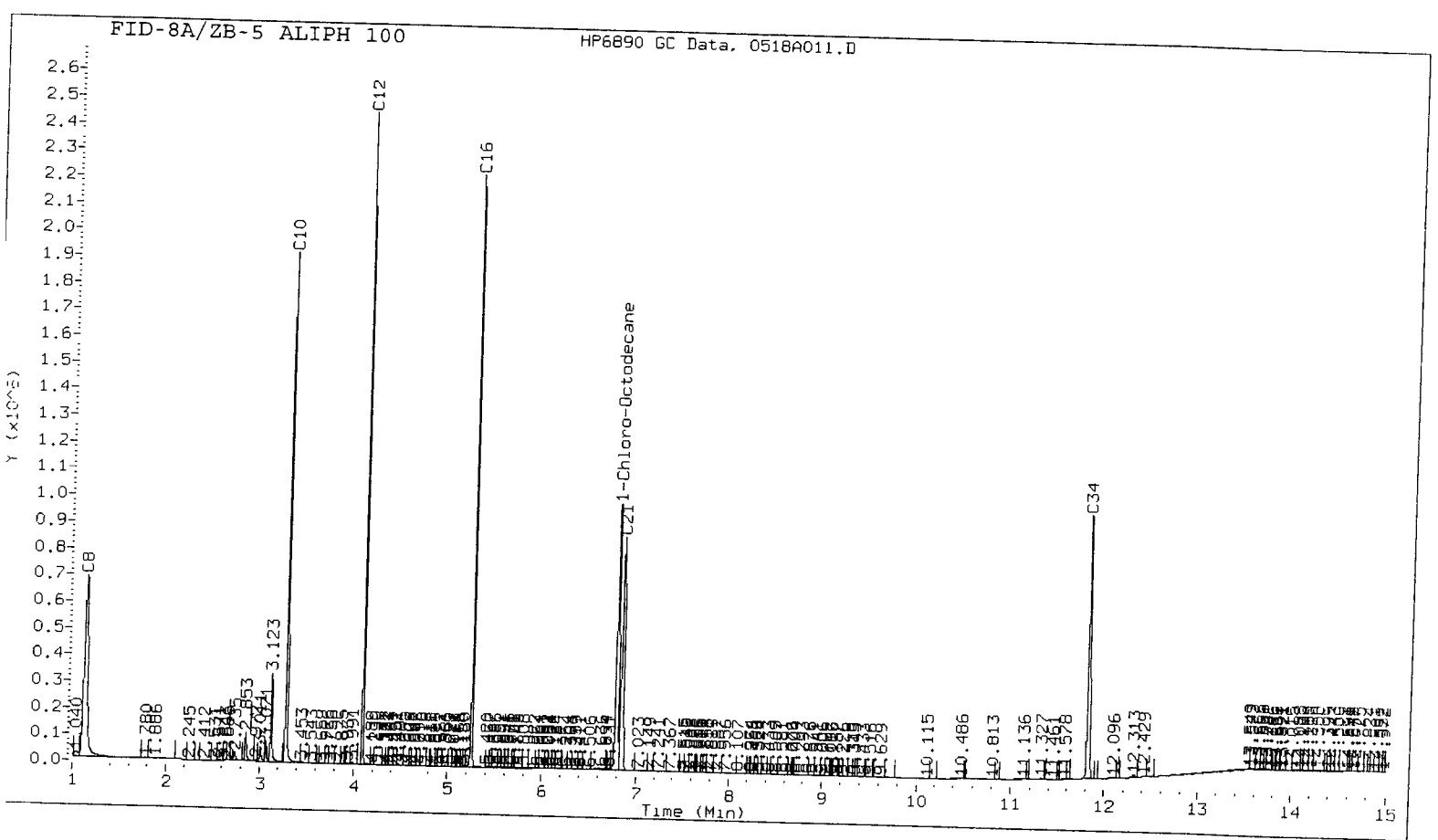
ARI ID: ALIPH 100
 Client ID:
 Injection: 18-MAY-2012 12:55
 Matrix: SOIL
 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 4489303 | 231 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1752050 | 97 | (3.382 - 4.196) |
| C12-C16 Aliph. | 1665699 | 98 | (4.196 - 5.361) |
| C16-C21 Aliph. | 1686914 | 104 | (5.361 - 6.967) |
| C21-C34 Aliph. | 1685198 | 99 | (6.967 - 11.938) |

Surrogate Rec: 64.9%

7/05/12



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A012.D
 Lab Smp Id: ALIPH 150
 Inj Date : 18-MAY-2012 13:20
 Operator : MH
 Smp Info : ALIPH 150
 Misc Info :
 Comment :
 Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
 Meth Date : 19-May-2012 09:48 j rains
 Cal Date : 18-MAY-2012 13:46
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50

Inst ID: fid8.i
 Quant Type: ESTD
 Cal File: 0518A013.D
 Calibration Sample, Level: 4
 Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | | | | | AMOUNTS | | |
|------------------------|--------|--------|--------|----|----------|--------------------|-------------------|
| | RT | EXP RT | DLT | RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 C8 | 1.131 | 1.141 | -0.010 | | 2819293 | 150.000 | 141.531 |
| 3 C10 | 3.281 | 3.282 | -0.001 | | 2703657 | 150.000 | 142.417 |
| 45 C12 | 4.095 | 4.096 | -0.001 | | 2552846 | 150.000 | 141.662 |
| 46 C16 | 5.258 | 5.261 | -0.003 | | 2423967 | 150.000 | 142.687 |
| 51 1-Chloro-Octodecane | 6.800 | 6.813 | -0.013 | | 2476764 | 150.000 | 141.544 |
| 47 C21 | 6.856 | 6.867 | -0.011 | | 2294540 | 150.000 | 141.475 |
| 48 C34 | 11.830 | 11.838 | -0.008 | | 2535888 | 150.000 | 149.040 |

μ 05/19/12

Data File: /chem2/fid8.1/20120518ALIPH.b/0518A012.D

Date : 18-MAY-2012 13:20

Client ID:

Sample Info: ALIPH 150

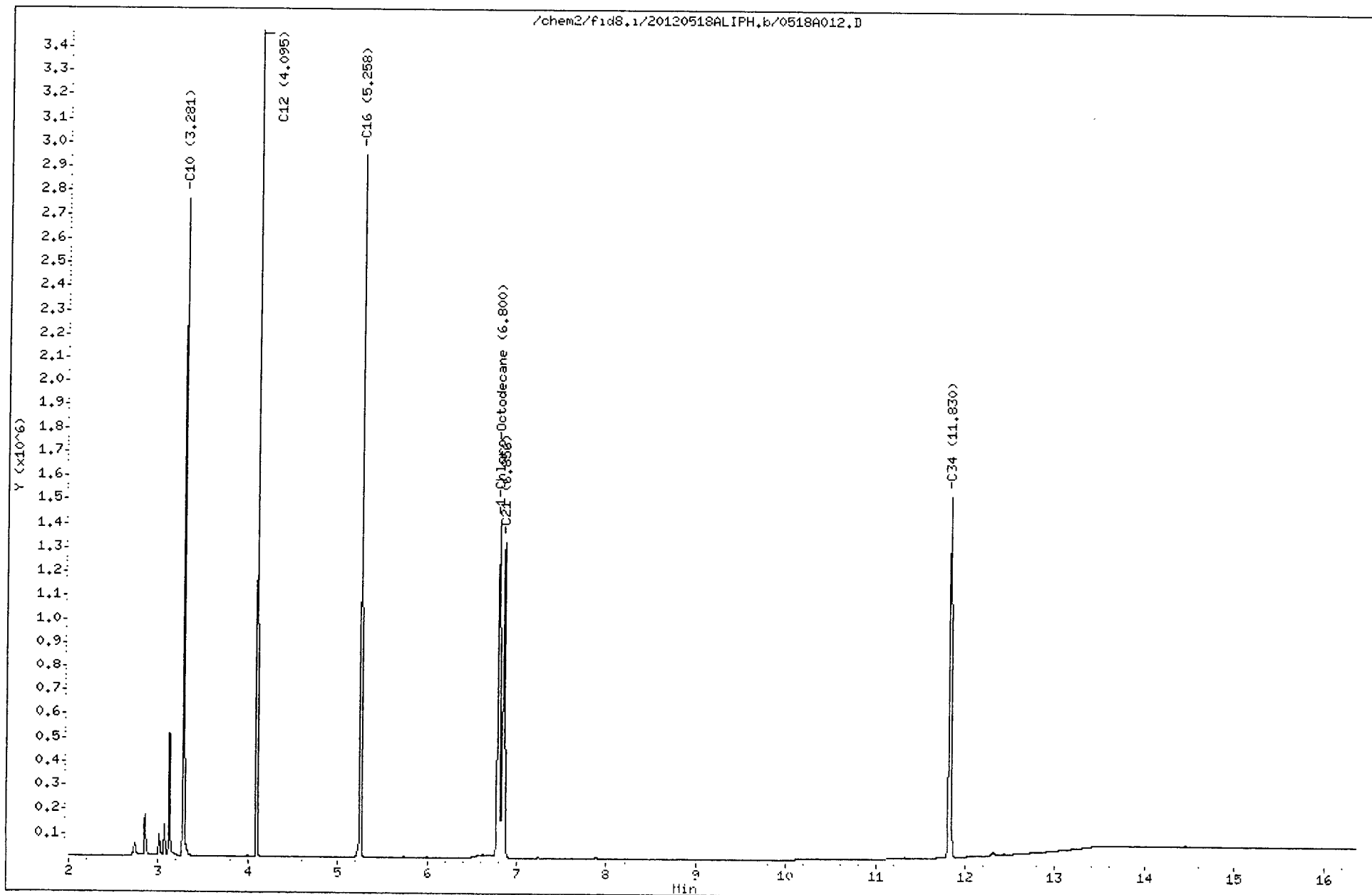
Column phase: ZB-5

Page 2

Instrument: fid8.i

Operator: MH

Column diameter: 0.32



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Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120518ALIPH.b/0518A012.D
Method: /chem2/fid8.i/20120518ALIPH.b/EPHaliph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

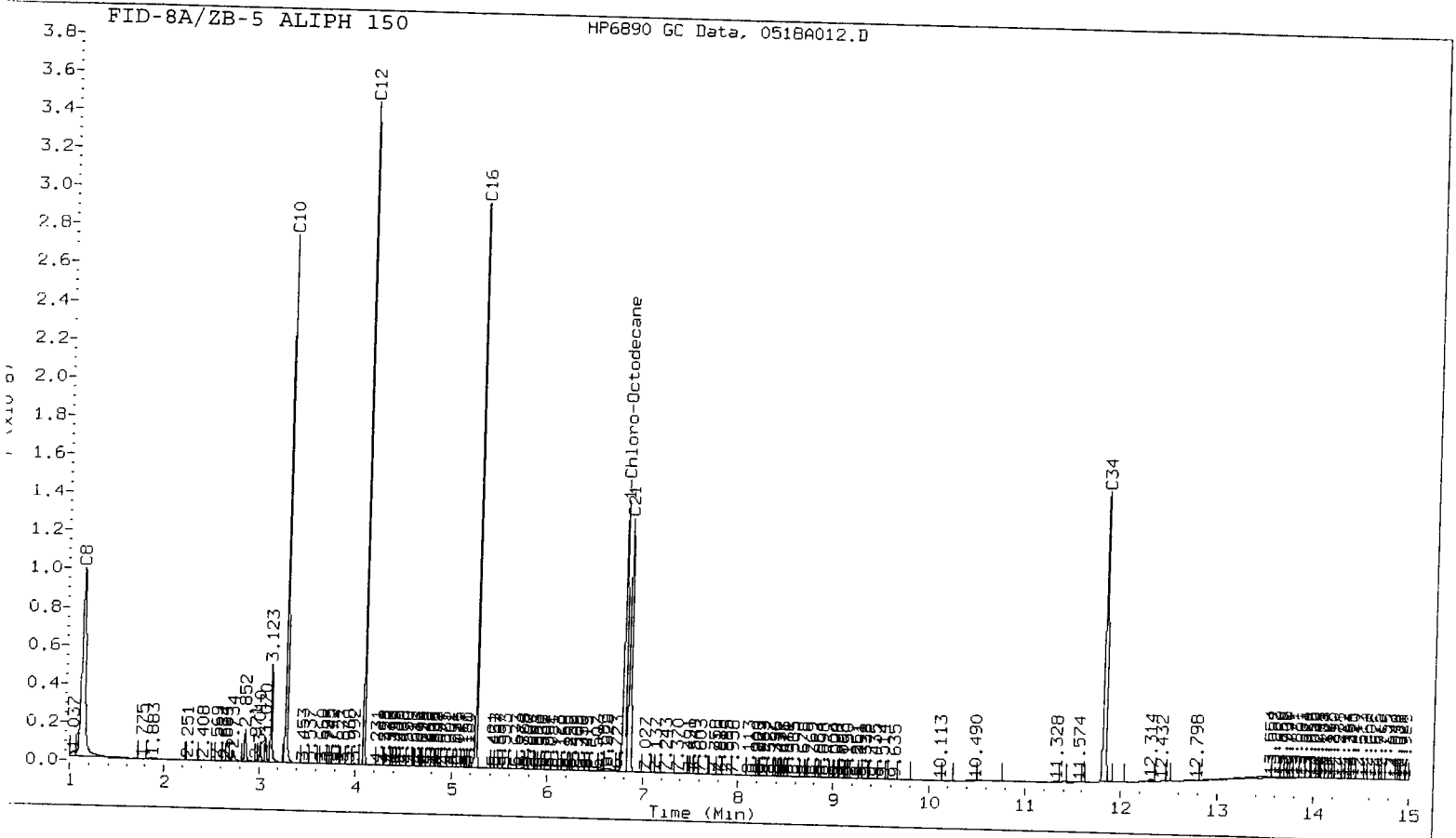
ARI ID: ALIPH 150
Client ID:
Injection: 18-MAY-2012 13:20
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 6650004 | 342 | (1.041 - 3.382) |
| C10-C12 Aliph. | 2565008 | 142 | (3.382 - 4.196) |
| C12-C16 Aliph. | 2430021 | 143 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2466801 | 152 | (5.361 - 6.967) |
| C21-C34 Aliph. | 2598436 | 153 | (6.967 - 11.938) |

Surrogate Rec: 94.4%

7 05/19/12



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A013.D
Lab Smp Id: ALIPH 200
Inj Date : 18-MAY-2012 13:46
Operator : MH
Smp Info : ALIPH 200
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Meth Date : 19-May-2012 09:48 jrains
Cal Date : 18-MAY-2012 13:46
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Calibration Sample, Level: 5
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS | |
|------------------------|--------|--------|--------|----------|--------------------|-------------------|
| | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 C8 | 1.141 | 1.141 | 0.000 | 4183188 | 200 000 | 210 000 |
| 3 C10 | 3.282 | 3.282 | 0.000 | 4049500 | 200.000 | 213.310 |
| 45 C12 | 4.096 | 4.096 | 0.000 | 3827511 | 200 000 | 212 396 |
| 46 C16 | 5.261 | 5.261 | 0 000 | 3507865 | 200.000 | 206 491 |
| 51 1-Chloro-Octodecane | 6 813 | 6.813 | 0.000 | 3731907 | 200 000 | 213.274 |
| 47 C21 | 6 867 | 6.867 | 0 000 | 3425030 | 200 000 | 211 179 |
| 48 C34 | 11 838 | 11 838 | 0.000 | 3733248 | 200 000 | 219 412 |

05/19/12

Data File: /chem2/fid8.1/20120518ALIPH.b/0518A013.D

Date : 18-MAY-2012 13:46

Client ID:

Sample Info: ALIPH 200

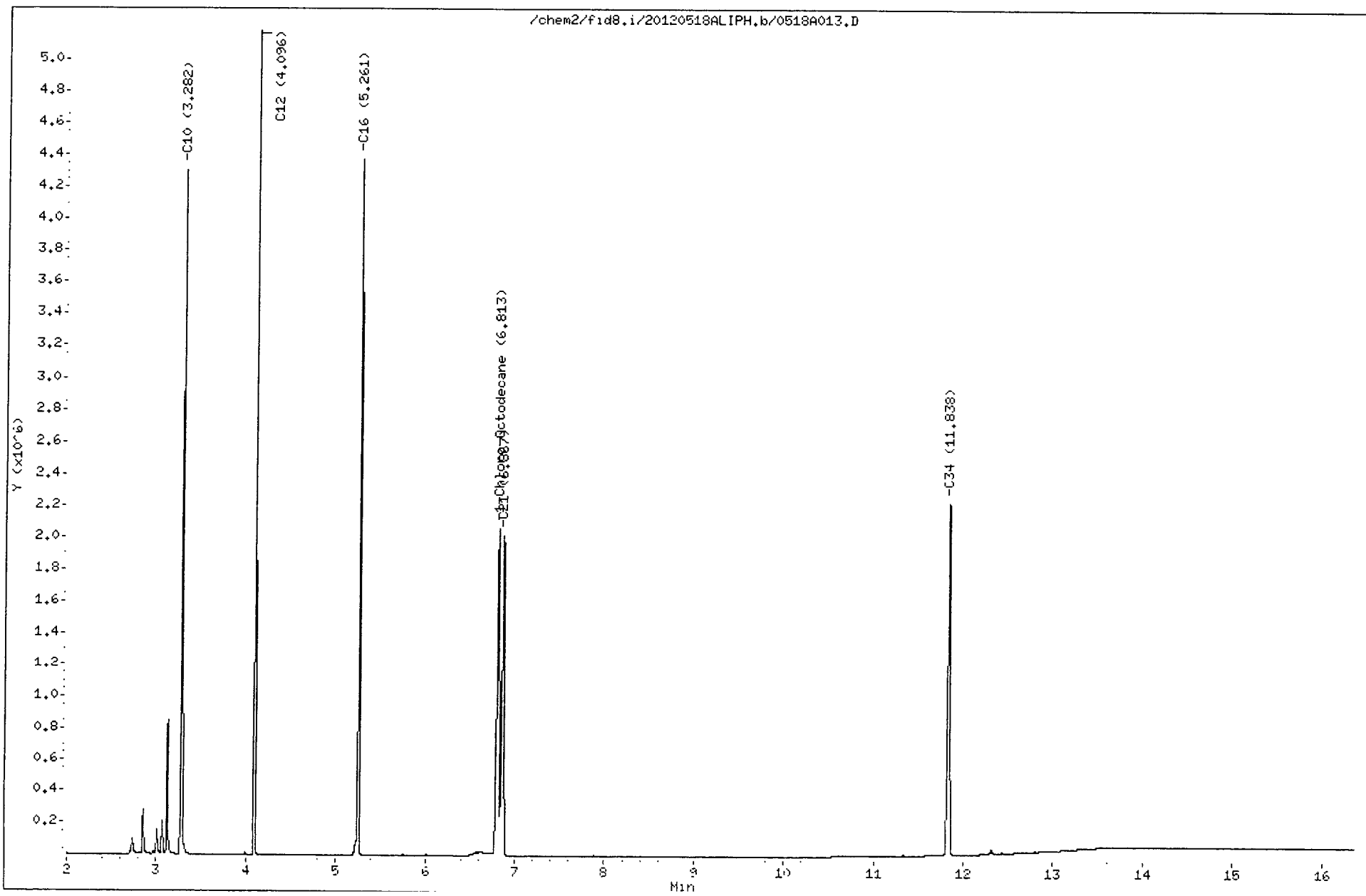
Column phase: ZB-5

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Page 2



UW85 : 00063

Analytical Resources Inc.
 WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120518ALIPH.b/0518A013.D
 Method: /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
 Instrument: fid8.i
 Operator: MH
 Macro: ALIPH120912FID8

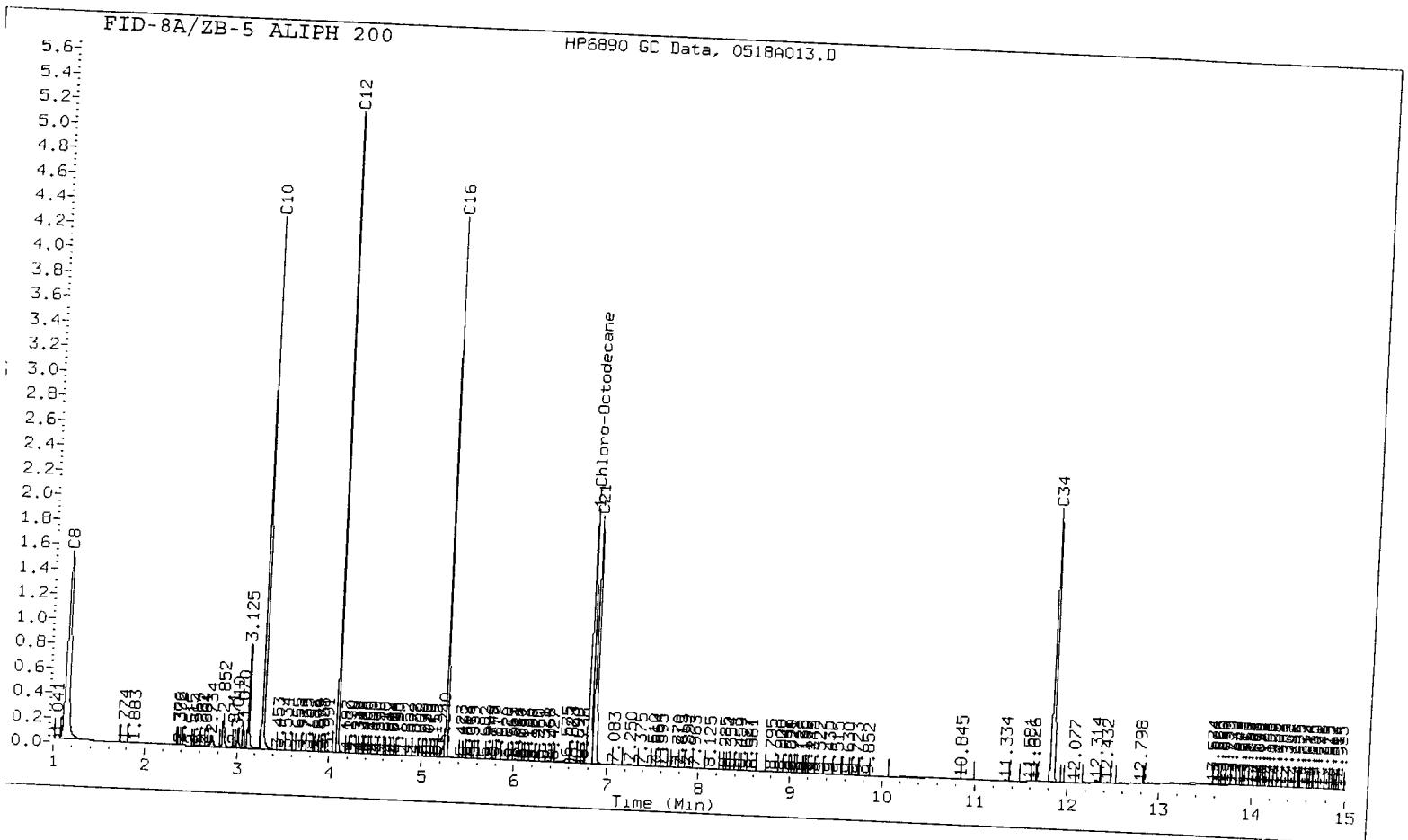
ARI ID: ALIPH 200
 Client ID:
 Injection: 18-MAY-2012 13:46
 Matrix: SOIL
 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|----------|------|------------------|
| C8-C10 Aliph. | 10001204 | 514 | (1.041 - 3.382) |
| C10-C12 Aliph. | 3847512 | 214 | (3.382 - 4.196) |
| C12-C16 Aliph. | 3668666 | 216 | (4.196 - 5.361) |
| C16-C21 Aliph. | 3737181 | 230 | (5.361 - 6.967) |
| C21-C34 Aliph. | 3796460 | 223 | (6.967 - 11.938) |

Surrogate Rec: 142.2%

Handwritten: 05/19/12



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518ALIPH.b/0518A014.D
Lab Smp Id: ALIPH ICV
Inj Date : 18-MAY-2012 14:11
Operator : MH
Smp Info : ALIPH ICV
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Meth Date : 19-May-2012 09:48 j rains
Cal Date : 18-MAY-2012 13:46
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | | | | | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | RT | EXP RT | DLT RT | RESPONSE | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | 1.157 | 1.141 | 0.016 | 2287049 | 114.812 | 114.812 |
| 3 C10 | 3.282 | 3.282 | 0.000 | 2107693 | 111.024 | 111.024 |
| 45 C12 | 4.095 | 4.096 | -0.001 | 2044190 | 113.436 | 113.436 |
| 46 C16 | 5.259 | 5.261 | -0.002 | 2004786 | 118.013 | 118.012 |
| \$ 51 1-Chloro-Octodecane | 6.805 | 6.813 | -0.008 | 2089255 | 119.399 | 119.398 |
| 47 C21 | 6.860 | 6.867 | -0.007 | 2064469 | 127.290 | 127.290 |
| 48 C34 | 11.830 | 11.838 | -0.008 | 1827896 | 107.430 | 107.430 |

FT↑

Data File: /chem2/fid8,1/20120518ALIPH,b/0518A014.D

Date : 18-MAY-2012 14:11

Client ID:

Sample Info: ALIPH ICV

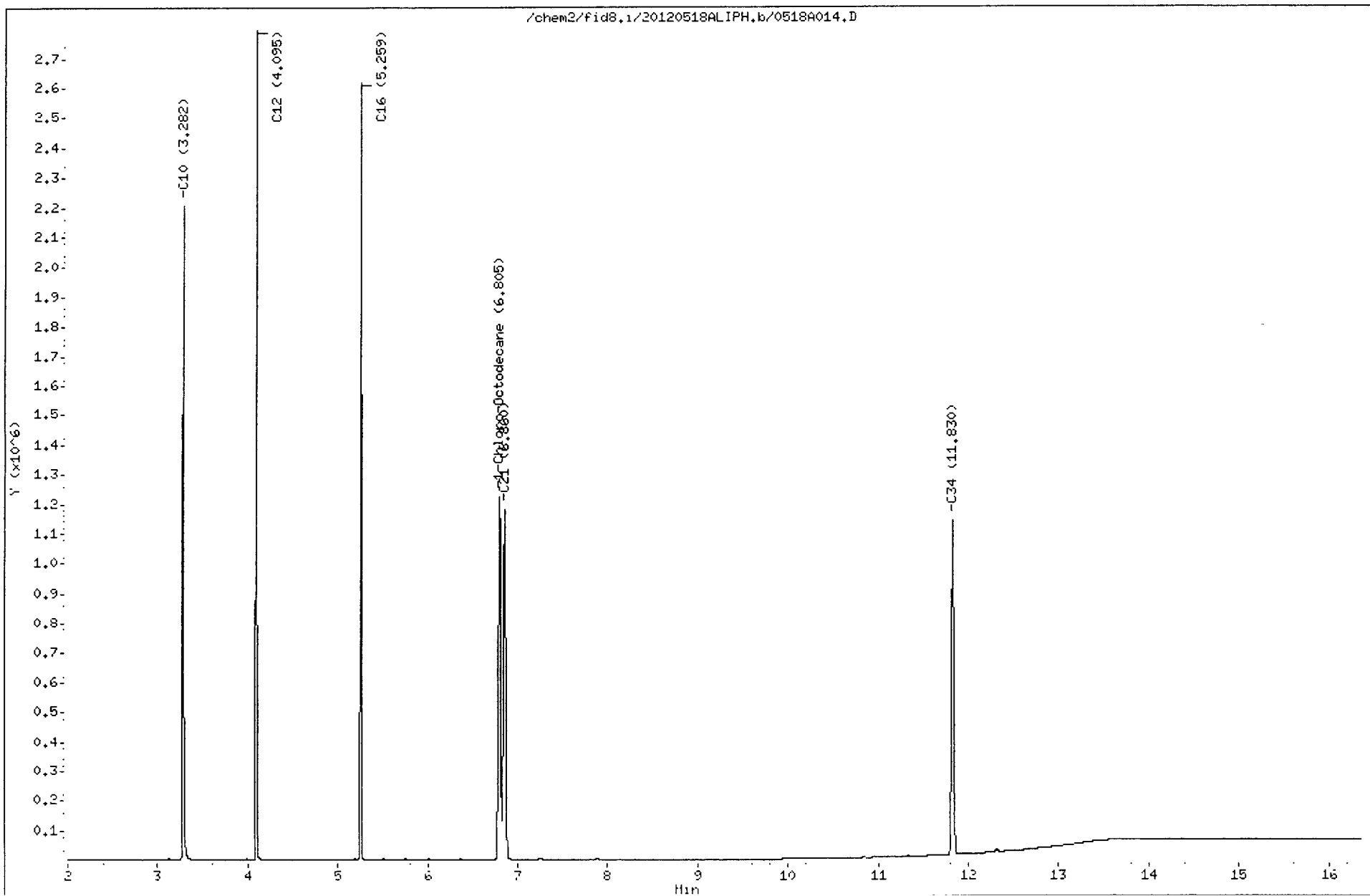
Column phase: ZB-5

Instrument: fid8,i

Operator: HH

Column diameter: 0.32

Page 2



UJ85:00066

Analytical Resources Inc.
WA. EPH Aliphatics Report

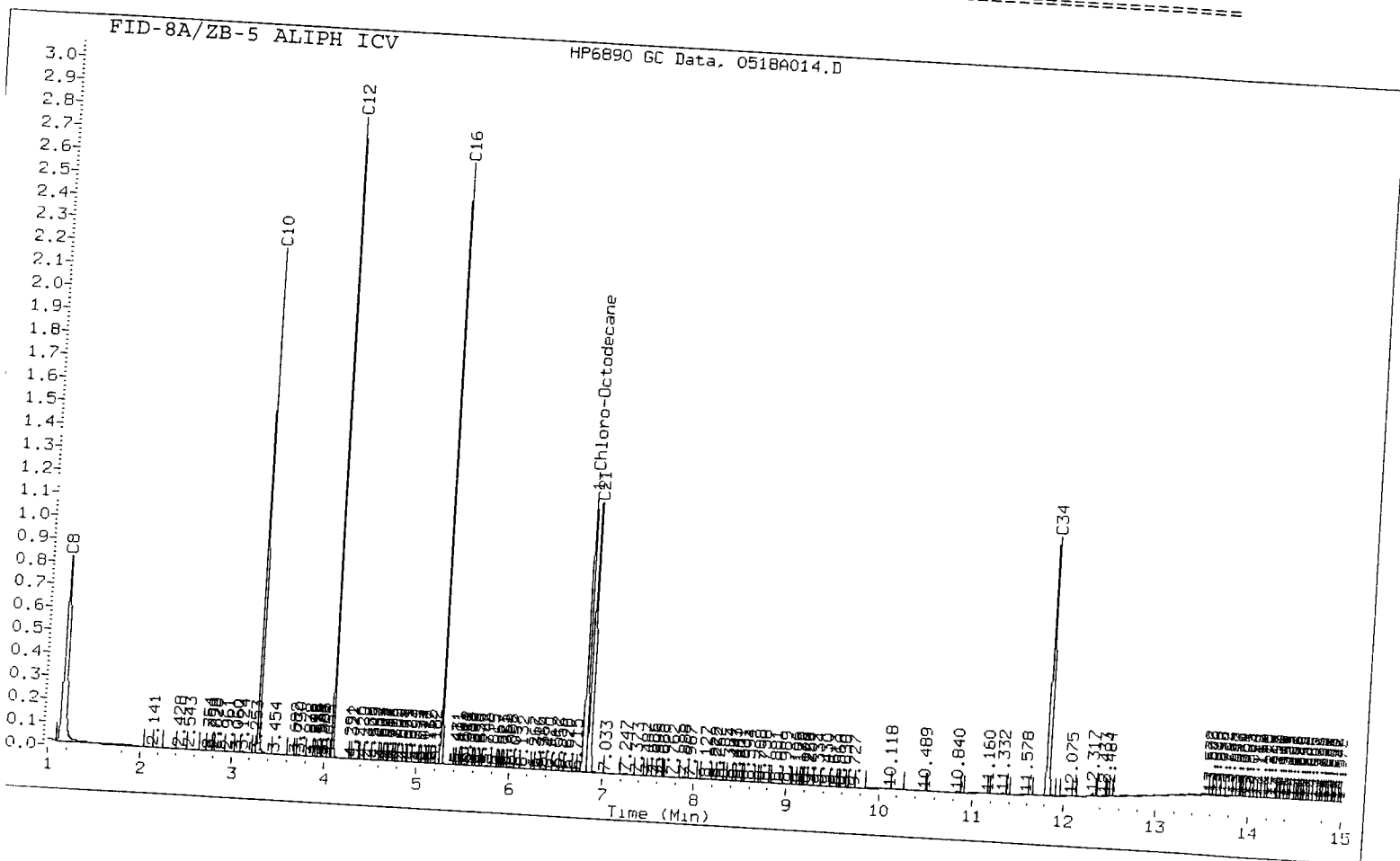
Data file: /chem2/fid8.i/20120518ALIPH.b/0518A014.D
Method: /chem2/fid8.i/20120518ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: ALIPH ICV
Client ID:
Injection: 18-MAY-2012 14:11
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 4421602 | 227 | (1.041 - 3.382) |
| C10-C12 Aliph. | 2056033 | 114 | (3.382 - 4.196) |
| C12-C16 Aliph. | 2013916 | 119 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2103786 | 130 | (5.361 - 6.967) |
| C21-C34 Aliph. | 1874865 | 110 | (6.967 - 11.938) |

Surrogate Rec: 79.6%



Report Date : 25-May-2012 07:49

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid8.i/20120518ALIPH.b/EPHAliph.m
Batch File: /chem2/fid8.i/20120518ALIPH.b
Inst ID: fid8.i

ID: RT01 RT02 RT03 RT04 RT05
FILENAME: 0518A009 0518A010 0518A011 0518A012 0518A013
INJ. DATE: 18-MAY-2012 18-MAY-2012 18-MAY-2012 18-MAY-2012 18-MAY-2012
INJ. TIME: 12.05 12.30 12:55 13:20 13.46

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 2 C8 | 1.132 | 1.135 | 1.130 | 1.131 | 1.141 | 1.141 | 1.091-1.191 | 1.134 | 0.005 |
| 3 C10 | 3.278 | 3.279 | 3.280 | 3.281 | 3.282 | 3.282 | 3.232-3.332 | 3.280 | 0.002 |
| 45 C12 | 4.093 | 4.093 | 4.095 | 4.095 | 4.096 | 4.096 | 4.046-4.146 | 4.094 | 0.002 |
| 46 C16 | 5.255 | 5.255 | 5.256 | 5.258 | 5.261 | 5.261 | 5.211-5.311 | 5.257 | 0.002 |
| \$ 51 1-Chloro-Octodecane | 6.796 | 6.794 | 6.796 | 6.800 | 6.813 | 6.813 | 6.763-6.863 | 6.800 | 0.008 |
| 47 C21 | 6.851 | 6.850 | 6.851 | 6.856 | 6.867 | 6.867 | 6.817-6.917 | 6.855 | 0.007 |
| 48 C34 | 11.824 | 11.827 | 11.827 | 11.830 | 11.838 | 11.838 | 11.788-11.888 | 11.829 | 0.005 |

Reviewer 1
Reviewer 2

MH

Date: 5/24/12 5/25/12
Date: 5/25/12

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Aromatic

GC Initial Calibration Notes

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **Other**

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 **FID-8**
FID-9 ECD-1 ECD-5 ECD-6 ECD-7 ECD-8

Curve Date(s): 5/18/12 Internal Standard ID Expiration

Endrin/DDT Breakdown <15%? YES / NO / NA ICV Exceeding ±20%? YES ~~NO~~
ICal Meets %RSD & r² Criteria ~~YES~~ / NO ICV Exceeding ±30%? YES ~~NO~~
Manual Integrations for ICal? ~~YES~~ / NO Linear Fits Used? YES ~~NO~~
Minimum Response S/N Met ~~YES~~ / NO Quadratic Fits Used? YES ~~NO~~
Calibration Points Dropped? YES ~~NO~~

| Primary Source | Standard # | Expiration | Secondary Source | Standard # | Expiration |
|----------------|--------------|----------------|---------------------|--------------|----------------|
| <u>Ultra</u> | <u>I7250</u> | <u>5/17/13</u> | <u>Accustandard</u> | <u>I7242</u> | <u>5/17/13</u> |
| | | | | | |
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| | | | | | |

Detail problems, corrective actions and/or other pertinent information below:

Analyst: [Signature] Date: 5/25/12
Reviewer: [Signature] Date: 5/25/12

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 18-MAY-2012 21:13
 End Cal Date : 18-MAY-2012 22:53
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem2/fid8.i/20120518AROM.b/EPHArOm.m
 Cal Date : 19-May-2012 10:10 j rains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/fid8.i/20120518AROM.b/0518A031.D
 Level 2: /chem2/fid8.i/20120518AROM.b/0518A032.D
 Level 3: /chem2/fid8.i/20120518AROM.b/0518A033.D
 Level 4: /chem2/fid8.i/20120518AROM.b/0518A034.D
 Level 5: /chem2/fid8.i/20120518AROM.b/0518A035.D

| Compound | 20 000 Level 1 | 50.000 Level 2 | 100 000 Level 3 | 150.000 Level 4 | 200 000 Level 5 | RRF | % RSD |
|-----------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------|-------|
| 2 Toluene | 20969 | 20179 | 20657 | 22328 | 20698 | 20966 | 3.877 |
| 75 1-chlorooctodecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 3 1,2,3-Trimetben | 19085 | 18656 | 19084 | 19964 | 18321 | 19022 | 3.242 |
| 4 Naphthalene | 19373 | 19093 | 19637 | 20545 | 18711 | 19472 | 3.550 |
| 7 Acenaphthene | 18967 | 18573 | 19074 | 19789 | 18051 | 18891 | 3.402 |
| 13 Pyrene | 22427 | 21852 | 22472 | 23276 | 21709 | 22347 | 2.775 |
| 21 Benzo-ghi-per | 25303 | 24075 | 24295 | 24977 | 24387 | 24608 | 2.082 |
| \$ 11 o-Terph Surr | 20883 | 20307 | 20799 | 21426 | 19678 | 20618 | 3.195 |

6a
 EPH AROMATICS INITIAL CALIBRATION
 WA DOE Method

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20120518AROM

Instrument: FID8.I

Project:

Calibration Date: 18-MAY-2012

SDG No.: 20120518AROM

| Aromatics EPH Range | RF1 20 | RF2 50 | RF3 100 | RF4 150 | RF5 200 | Ave RF | %RSD |
|------------------------|-----------|-----------|------------|------------|------------|--------|------|
| C8-C10 | 20027 | 19417 | 19870 | 21146 | 19509 | 19994 | 3.5 |
| C10-C12 | 19373 | 19093 | 19637 | 20545 | 18711 | 19472 | 3.6 |
| C12-C16 | 18967 | 18573 | 19074 | 19789 | 18051 | 18891 | 3.4 |
| C16-C21 | 22427 | 21852 | 22472 | 23276 | 21709 | 22347 | 2.8 |
| C21-C34 | 25303 | 24075 | 24295 | 24977 | 24387 | 24608 | 2.1 |

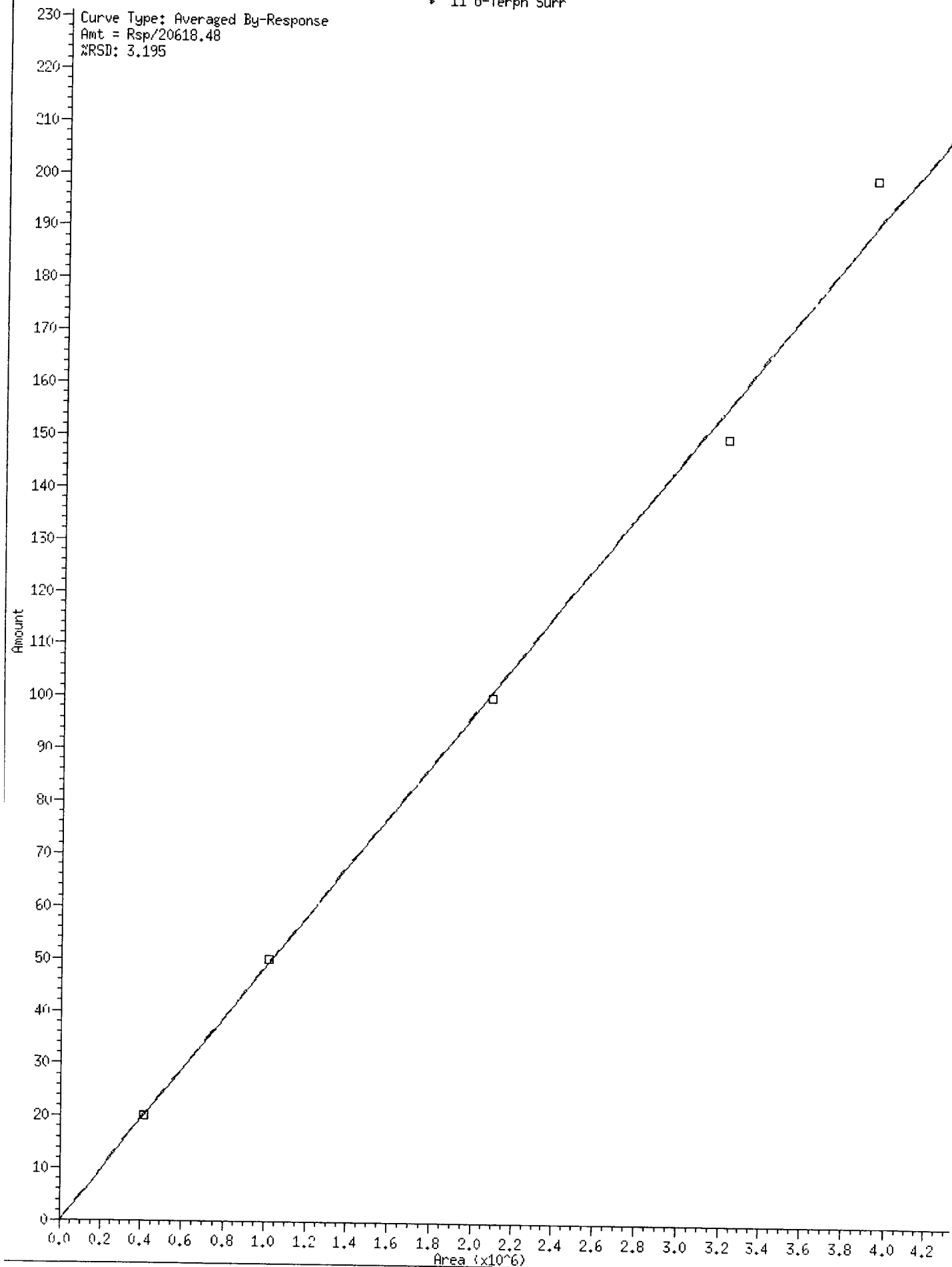
<- Indicates %RSD outside limits
 Surrogate areas are not included in RF calculation.

Calibration Files Analysis Time

| | |
|------------|-------------------|
| 0518A031.D | 18-MAY-2012 21:13 |
| 0518A032.D | 18-MAY-2012 21:38 |
| 0518A033.D | 18-MAY-2012 22:03 |
| 0518A034.D | 18-MAY-2012 22:28 |
| 0518A035.D | 18-MAY-2012 22:53 |
| | 18-MAY-2012 22:53 |

* 11 o-Terph Surr

Curve Type: Averaged By-Response
Amt = Rsp/20618.48
%RSD: 3.195



TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES INC

Client:

SDG No.: 20120518AROM

Project:

Instrument ID: FID8

GC Column: ZB-5

Run Date: 05/18/12

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

| SURROGATE RT FROM DAILY STANDARD | | | | |
|----------------------------------|------------------|------------------|------------------|------------|
| S1 : 6.07 | | | | |
| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | S1 RT # |
| 01 | ARO 20 | 05/18/12 | 2113 | 6.07 |
| 02 | ARO 50 | 05/18/12 | 2138 | 6.08 |
| 03 | ARO 100 | 05/18/12 | 2203 | 6.08 |
| 04 | ARO 150 | 05/18/12 | 2228 | 6.08 |
| 05 | ARO 200 | 05/18/12 | 2253 | 6.08 |

S1 = o-Terph Surr

QC LIMITS
(+/- 0.05 MINUTES)

* Values outside of QC limits.

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A031.D
Lab Smp Id: ARO 20
Inj Date : 18-MAY-2012 21:13
Operator : MH
Smp Info : ARO 20
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518AROM.b/EPHARom.m
Meth Date : 19-May-2012 10:13 j rains
Cal Date : 18-MAY-2012 21:13
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A031.D
Calibration Sample, Level: 1
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | AMOUNTS | | | | | | |
|-----------------------|-----------------------|--------|--------|----|----------|--------------------|-------------------|
| | RT | EXP RT | DLT RT | RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 Toluene | 0.755 | 0.755 | 0.000 | | 419377 | 20.0000 | 20.002 |
| 3 1,2,3-Trimetben | 3.387 | 3.387 | 0.000 | | 381694 | 20.0000 | 20.066 |
| 4 Naphthalene | 4.062 | 4.062 | 0.000 | | 387454 | 20.0000 | 19.898 |
| 7 Acenaphthene | 5.001 | 5.001 | 0.000 | | 379332 | 20.0000 | 20.080 |
| \$ 11 o-Terph Surr | 6.074 | 6.074 | 0.000 | | 417653 | 20.0000 | 20.256 |
| 75 1-chlorooctodecane | Compound Not Detected | | | | | | |
| 13 Pyrene | 7.007 | 7.007 | 0.000 | | 448547 | 20.0000 | 20.071 |
| 21 Benzo-ghi-per | 11.493 | 11.493 | 0.000 | | 506062 | 20.0000 | 20.565 |

Data File: /chem2/fid8.i/20120518AROM,b/0518A031.D

Date : 18-MAY-2012 21:13

Client ID:

Sample Info: ARO 20

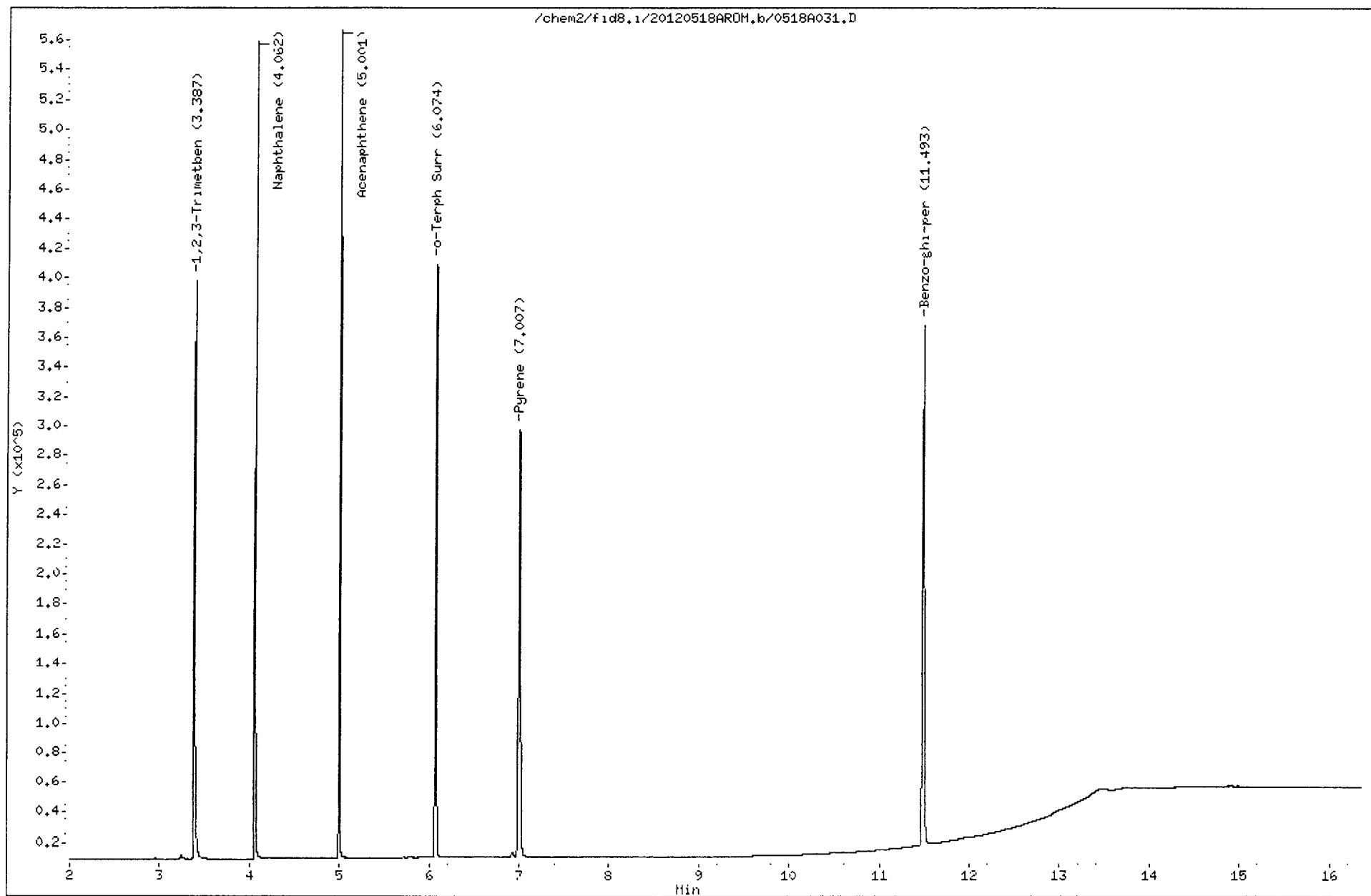
Column phase: ZB-5

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Page 2



UW85:00076

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A031.D
 Method: /chem2/fid8.i/20120518AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 05/19/2012
 Macro: AROM120911FID8

ARI ID: ARO 20
 Client ID:
 Injection: 18-MAY-2012 21:13
 Matrix: SOIL
 Dilution Factor: 1

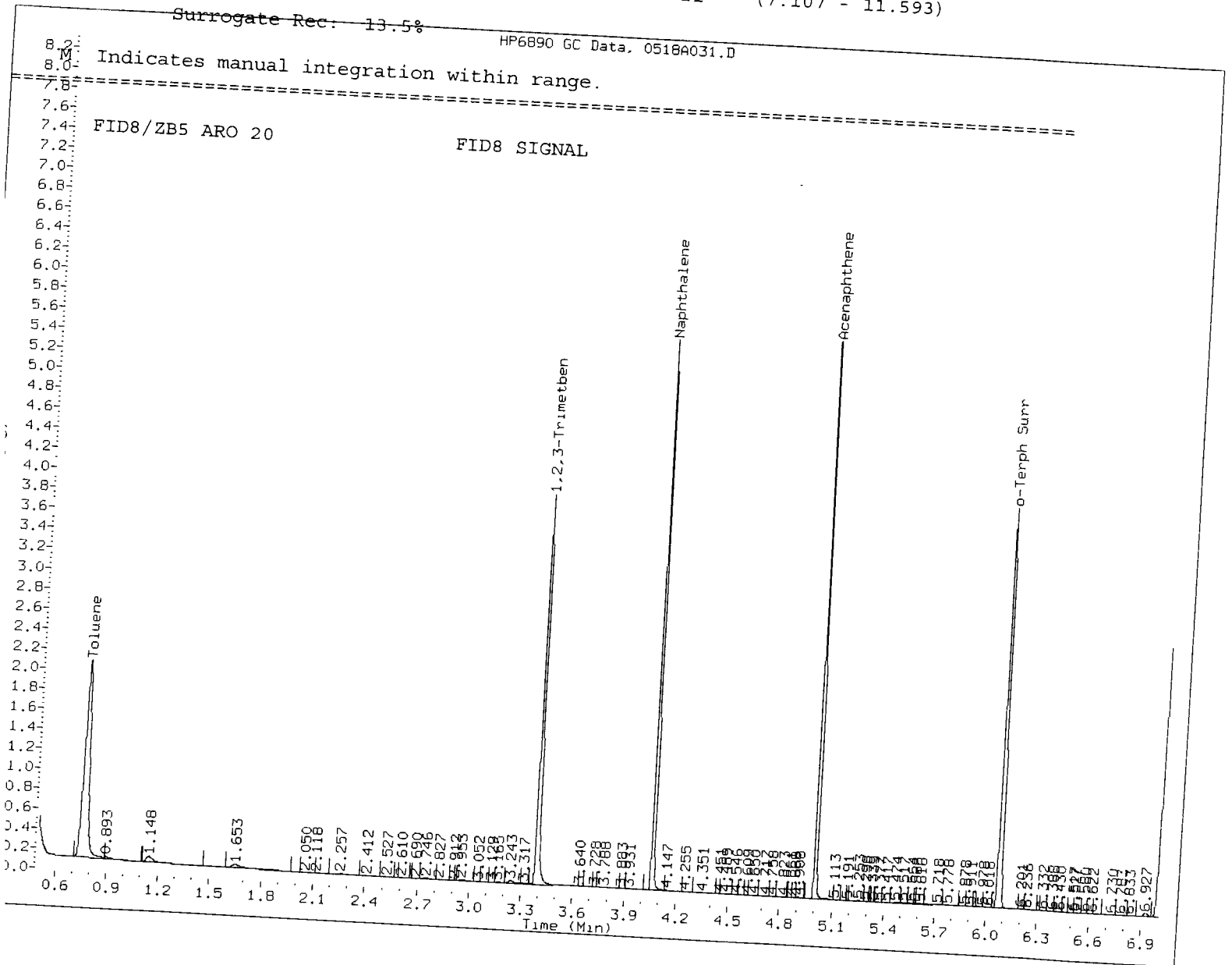
EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|--------|------|------------------|
| C8-C10 Arom. | 19994 | 848532 | 42 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 390255 | 20 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 381173 | 20 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 468442 | 21 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 512415 | 21 | (7.107 - 11.593) |

Surrogate Rec: 13.5%

HP6890 GC Data, 0518A031.D

Indicates manual integration within range.



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A032.D
 Lab Smp Id: ARO 50
 Inj Date : 18-MAY-2012 21:38
 Operator : MH
 Smp Info : ARO 50
 Misc Info :
 Comment :
 Method : /chem2/fid8.i/20120518AROM.b/EPHARom.m
 Meth Date : 19-May-2012 10:13 j rains
 Cal Date : 18-MAY-2012 21:38
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50

Inst ID: fid8.i
 Quant Type: ESTD
 Cal File: 0518A032.D
 Calibration Sample, Level: 2
 Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS | |
|-----------------------|------------------------|--------|--------|----------|--------------------|-------------------|
| | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 Toluene | 0.755 | 0.755 | 0.000 | 1008964 | 50.0000 | 48.123 |
| 3 1,2,3-Trimetben | 3.386 | 3.387 | -0.001 | 932782 | 50.0000 | 49.037 |
| 4 Naphthalene | 4.062 | 4.062 | 0.000 | 954674 | 50.0000 | 49.028 |
| 7 Acenaphthene | 5.001 | 5.001 | 0.000 | 928660 | 50.0000 | 49.159 |
| 11 o-Terph Surr | 6.080 | 6.074 | 0.006 | 1015369 | 50.0000 | 49.245 |
| 75 1-chlorooctodecane | Compound Not Detected. | | | | | |
| 13 Pyrene | 7.013 | 7.007 | 0.006 | 1092577 | 50.0000 | 48.890 |
| 21 Benzo-ghi-per | 11.500 | 11.493 | 0.007 | 1203771 | 50.0000 | 48.918 |

Data File: /chem2/fid8.1/20120518AROM.b/0518A032.D

Date : 18-MAY-2012 21:38

Client ID:

Sample Info: ARO 50

Page 2

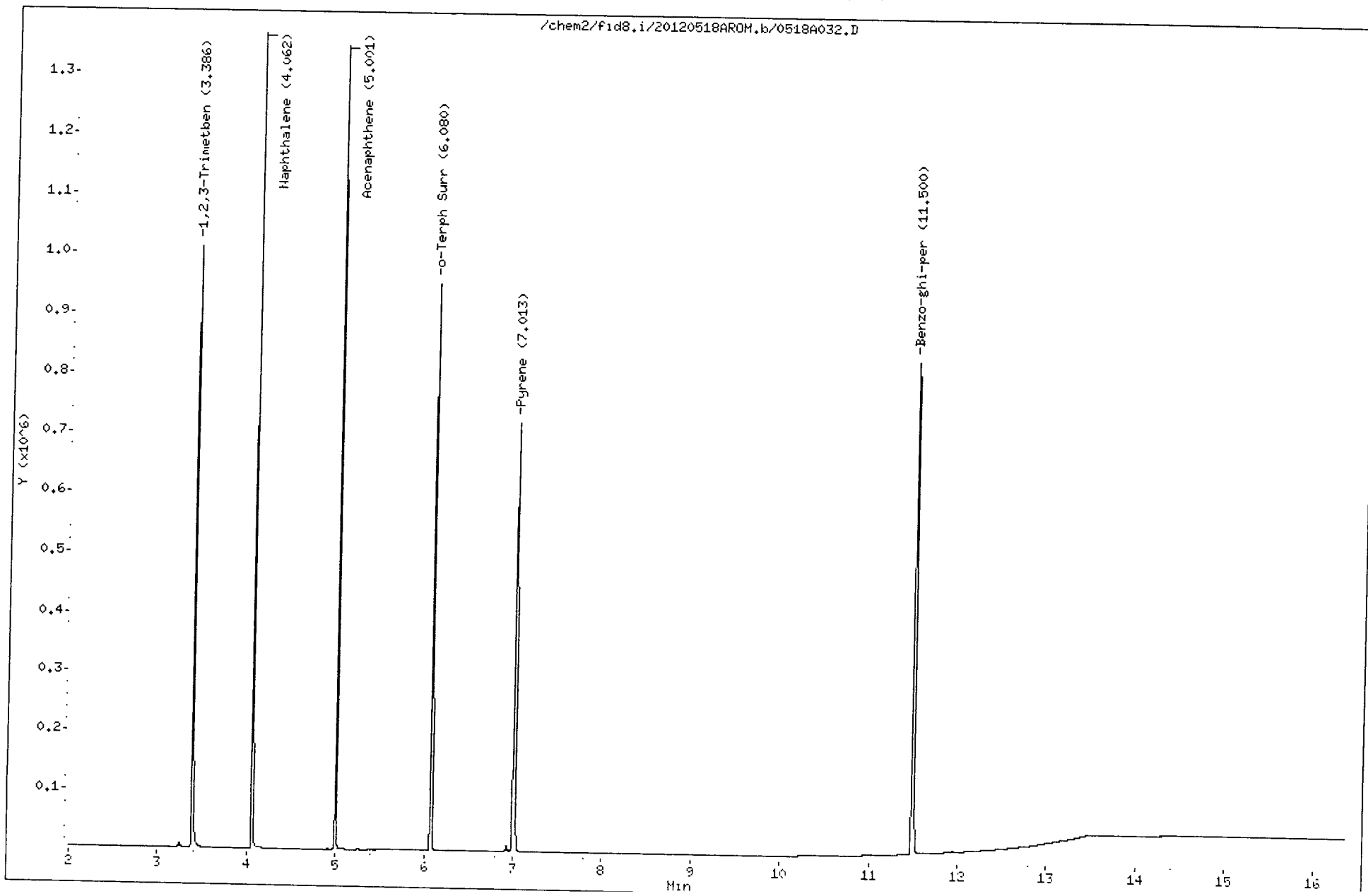
Instrument: fid8.1

Operator: HH

Column diameter: 0.32

Column phase: ZB-5

/chem2/fid8.1/20120518AROM.b/0518A032.D



UW85:00079

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A032.D
 Method: /chem2/fid8.i/20120518AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 05/19/2012
 Macro: AROM120911FID8

ARI ID: ARO 50
 Client ID:
 Injection: 18-MAY-2012 21:38
 Matrix: SOIL
 Dilution Factor: 1

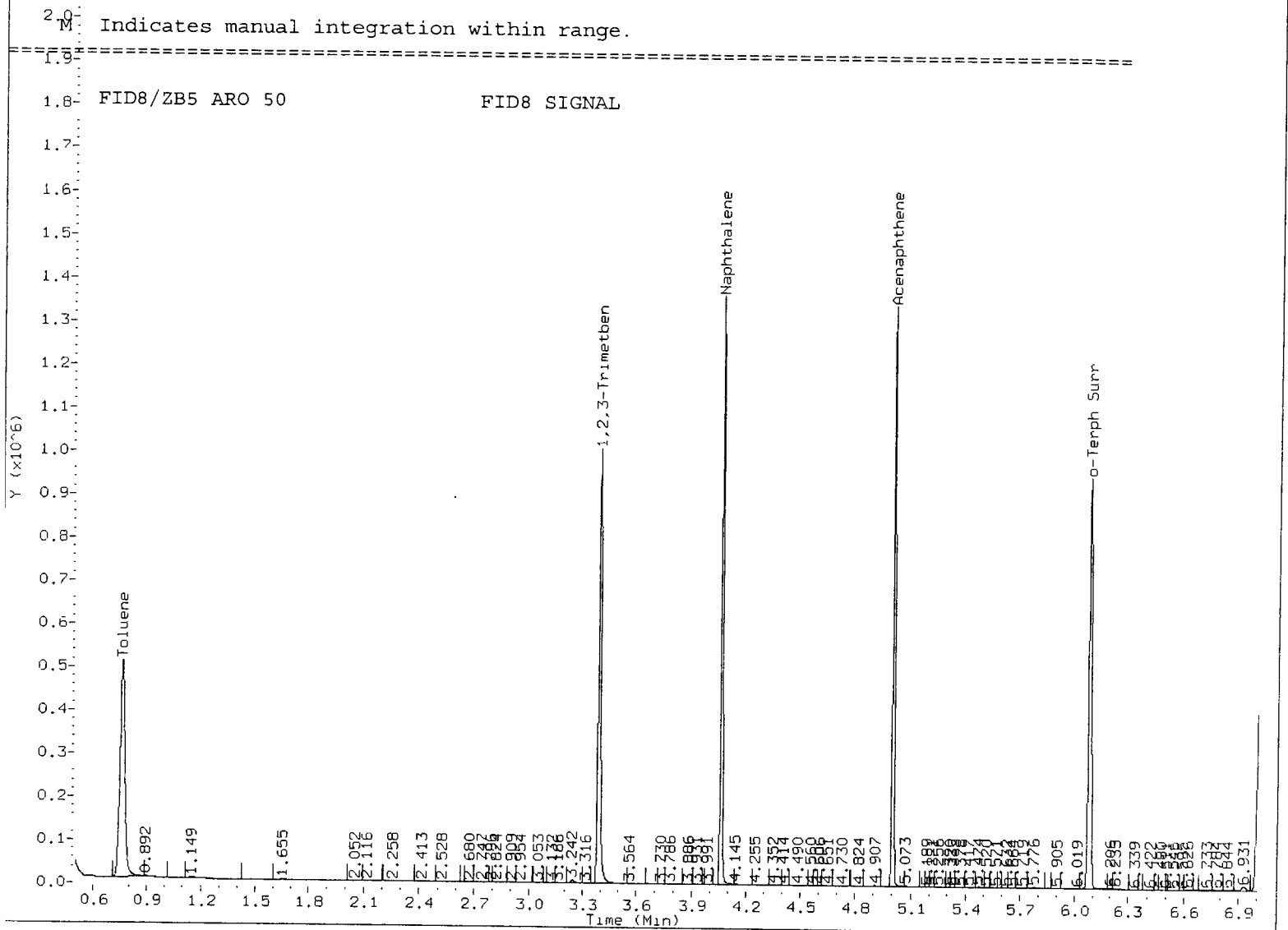
EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 1982595 | 99 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 960539 | 49 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 934415 | 49 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 1121943 | 50 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 1219688 | 50 | (7.107 - 11.593) |

Surrogate Rec: 32.8%

HP6890 GC Data, 0518A032.D

Indicates manual integration within range.



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A033.D
Lab Smp Id: ARO 100
Inj Date : 18-MAY-2012 22:03
Operator : MH
Smp Info : ARO 100
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518AROM.b/EPHARom.m
Meth Date : 19-May-2012 10:13 j rains
Cal Date : 18-MAY-2012 22:03
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A033.D
Calibration Sample, Level: 3
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | | | | | | AMOUNTS | |
|-----------------------|------------------------|--------|--------|----|----------|--------------------|-------------------|
| | RT | EXP RT | DLT | RT | RESPONSE | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 Toluene | 0.753 | 0.755 | -0.002 | | 2065713 | 100.000 | 98.525 |
| 3 1,2,3-Trimetben | 3.387 | 3.387 | 0.000 | | 1908356 | 100.000 | 100.324 |
| 4 Naphthalene | 4.063 | 4.062 | 0.001 | | 1963717 | 100.000 | 100.849 |
| 7 Acenaphthene | 5.003 | 5.001 | 0.002 | | 1907395 | 100.000 | 100.969 |
| 11 o-Terph Surr | 6.078 | 6.074 | 0.004 | | 2079908 | 100.000 | 100.875 |
| 75 1-chlorooctodecane | Compound Not Detected. | | | | | | |
| 13 Pyrene | 7.017 | 7.007 | 0.010 | | 2247249 | 100.000 | 100.559 |
| 21 Benzo-ghi-per | 11.511 | 11.493 | 0.018 | | 2429504 | 100.000 | 98.729 |

Data File: /chem2/fid8.1/20120518AROM,b/0518A033.D

Date: 18-MAY-2012 22:03

Client ID:

Sample Info: ARO 100

Page 2

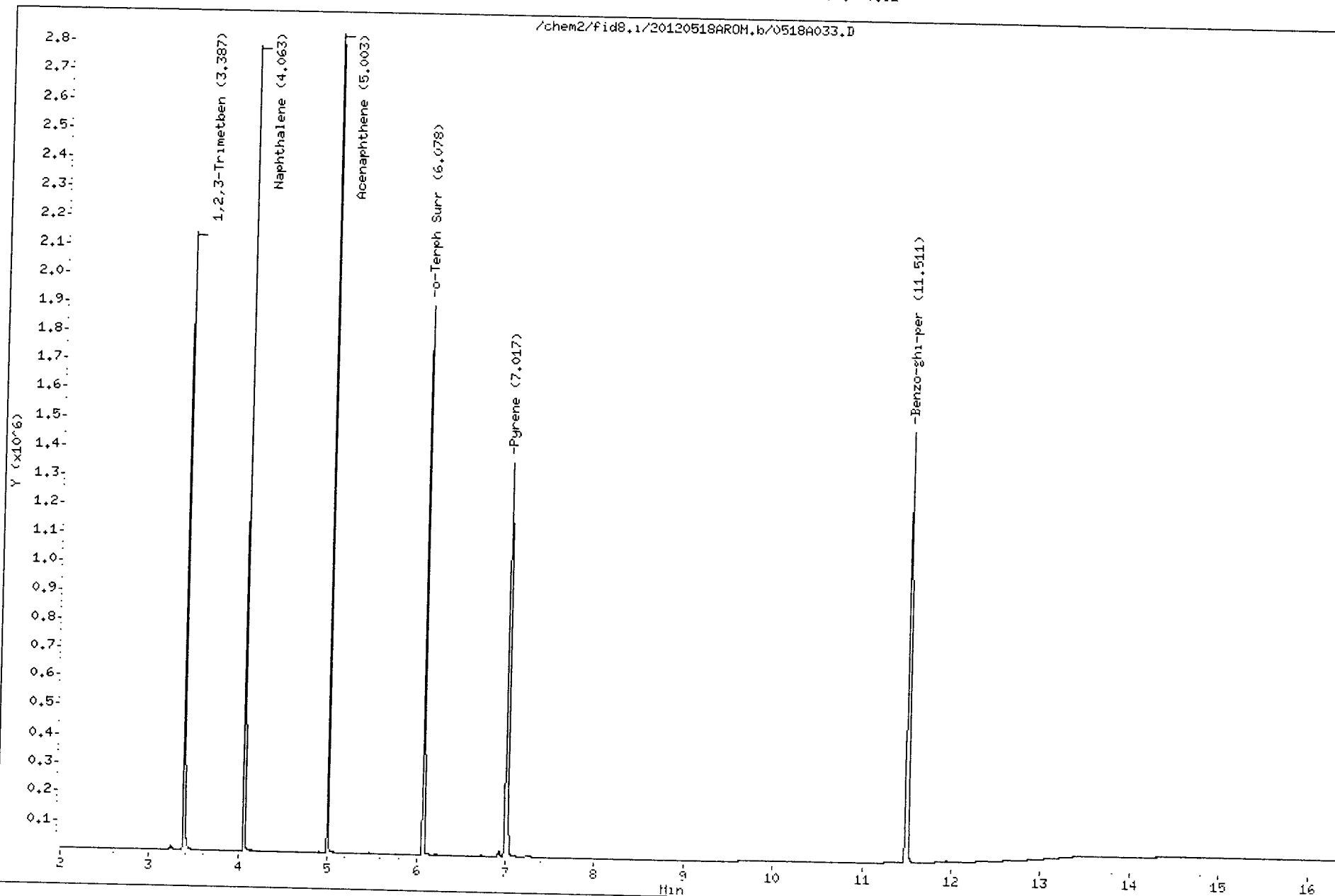
Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5

/chem2/fid8.1/20120518AROM,b/0518A033.D



0005:00082

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A033.D
 Method: /chem2/fid8.i/20120518AROM.b/EPHARom.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 05/19/2012
 Macro: AROM120911FID8

ARI ID: ARO 100
 Client ID:
 Injection: 18-MAY-2012 22:03
 Matrix: SOIL
 Dilution Factor: 1

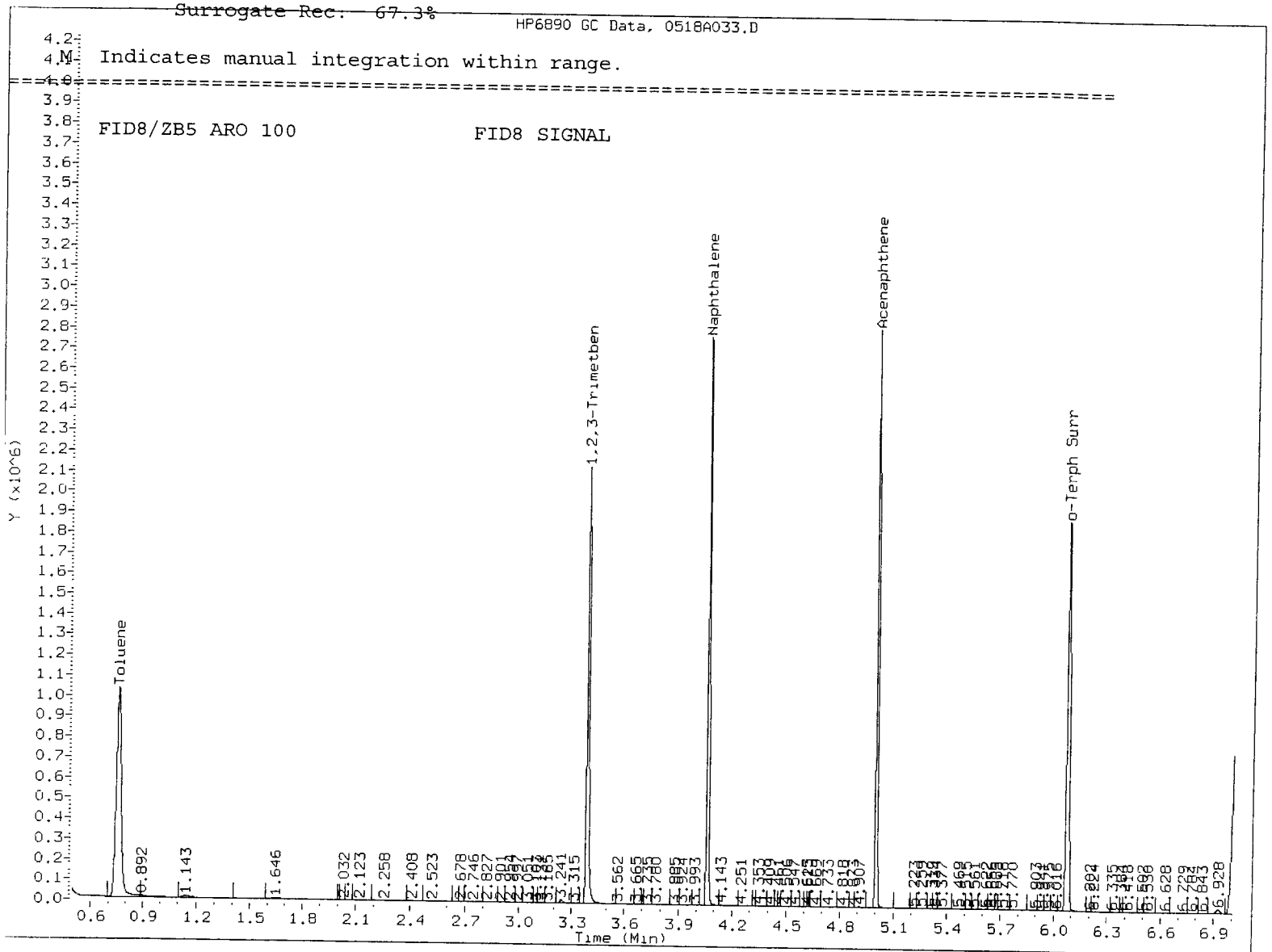
EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 4083855 | 204 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 1972297 | 101 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 1912161 | 101 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 2300474 | 103 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 2445403 | 99 | (7.107 - 11.593) |

Surrogate Rec: 67.3%

HP6890 GC Data, 0518A033.D

Indicates manual integration within range.



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A034.D
 Lab Smp Id: ARO 150
 Inj Date : 18-MAY-2012 22:28
 Operator : MH
 Smp Info : ARO 150
 Misc Info :
 Comment :
 Method : /chem2/fid8.i/20120518AROM.b/EPHARom.m
 Meth Date : 19-May-2012 10:13 j rains
 Cal Date : 18-MAY-2012 22:28
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50

Inst ID: fid8.i
 Quant Type: ESTD
 Cal File: 0518A034.D
 Calibration Sample, Level: 4
 Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | | | | RESPONSE | AMOUNTS | |
|-----------------------|-----------------------|--------|--------|----------|--------------------|-------------------|
| | RT | EXP RT | DLT RT | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 Toluene | 0.763 | 0.755 | 0.008 | 3349251 | 150.000 | 159.744 |
| 3 1,2,3-Trimetben | 3.389 | 3.387 | 0.002 | 2994643 | 150.000 | 157.432 |
| 4 Naphthalene | 4.064 | 4.062 | 0.002 | 3081761 | 150.000 | 158.267 |
| 7 Acenaphthene | 5.005 | 5.001 | 0.004 | 2968376 | 150.000 | 157.132 |
| 11 o-Terph Surr | 6.081 | 6.074 | 0.007 | 3213834 | 150.000 | 155.871 |
| 75 1-chlorooctodecane | Compound Not Detected | | | | | |
| 13 Pyrene | 7.025 | 7.007 | 0.018 | 3491467 | 150.000 | 156.236 |
| 21 Benzo-ghi-per | 11.519 | 11.493 | 0.026 | 3746611 | 150.000 | 152.253 |

Data File: /chem2/fid8.1/20120518AROM.b/0518A034.D

Date : 18-MAY-2012 22:28

Client ID:

Sample Info: ARO 150

Page 2

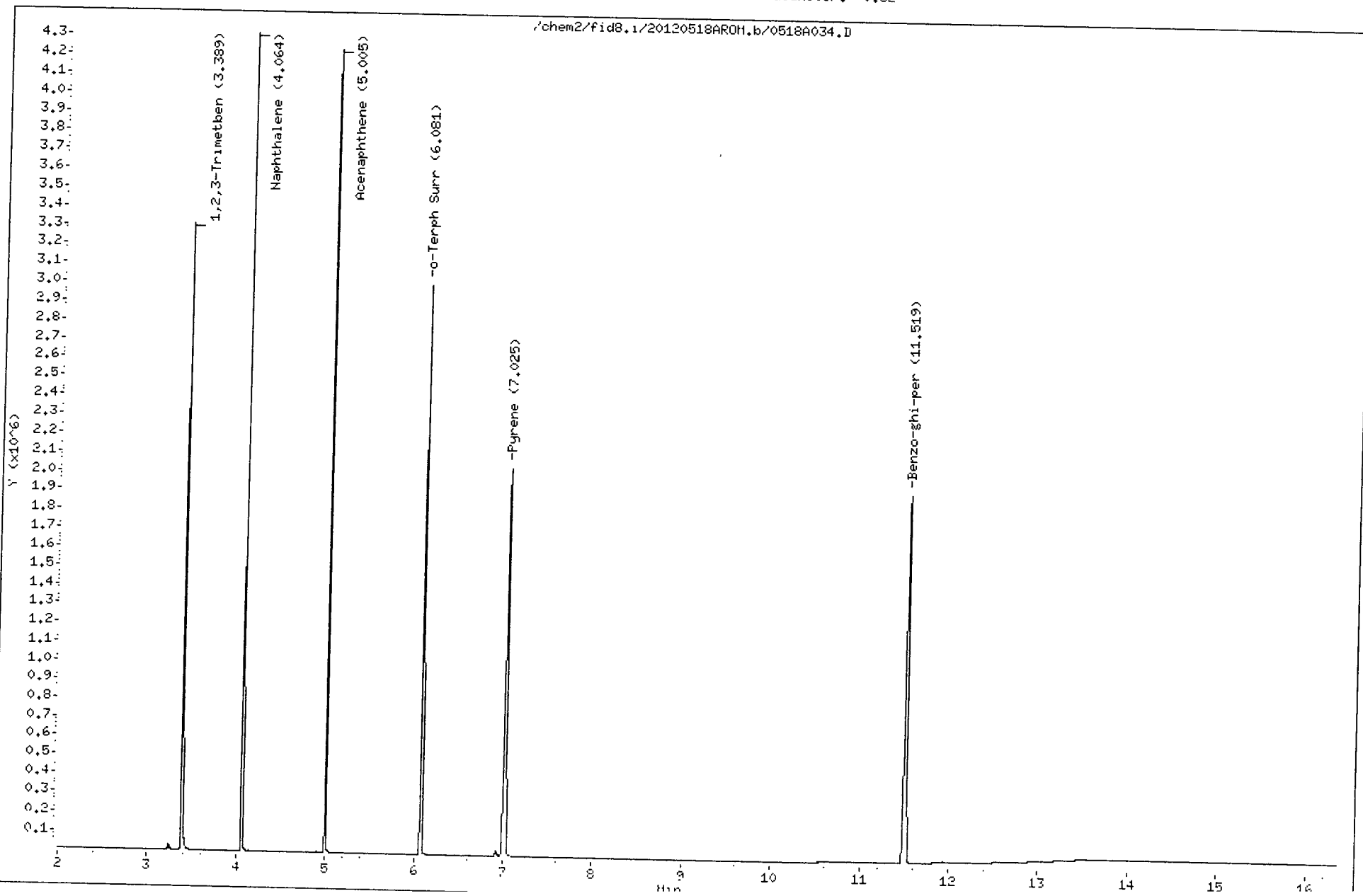
Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Column phase: ZB-5

/chem2/fid8.1/20120518AROM.b/0518A034.D



UW85 : 00085

Analytical Resources Inc.
EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A034.D
Method: /chem2/fid8.i/20120518AROM.b/EPHArOm.m
Instrument: fid8.i
Operator: MH
Report Date: 05/19/2012
Macro: AROM120911FID8

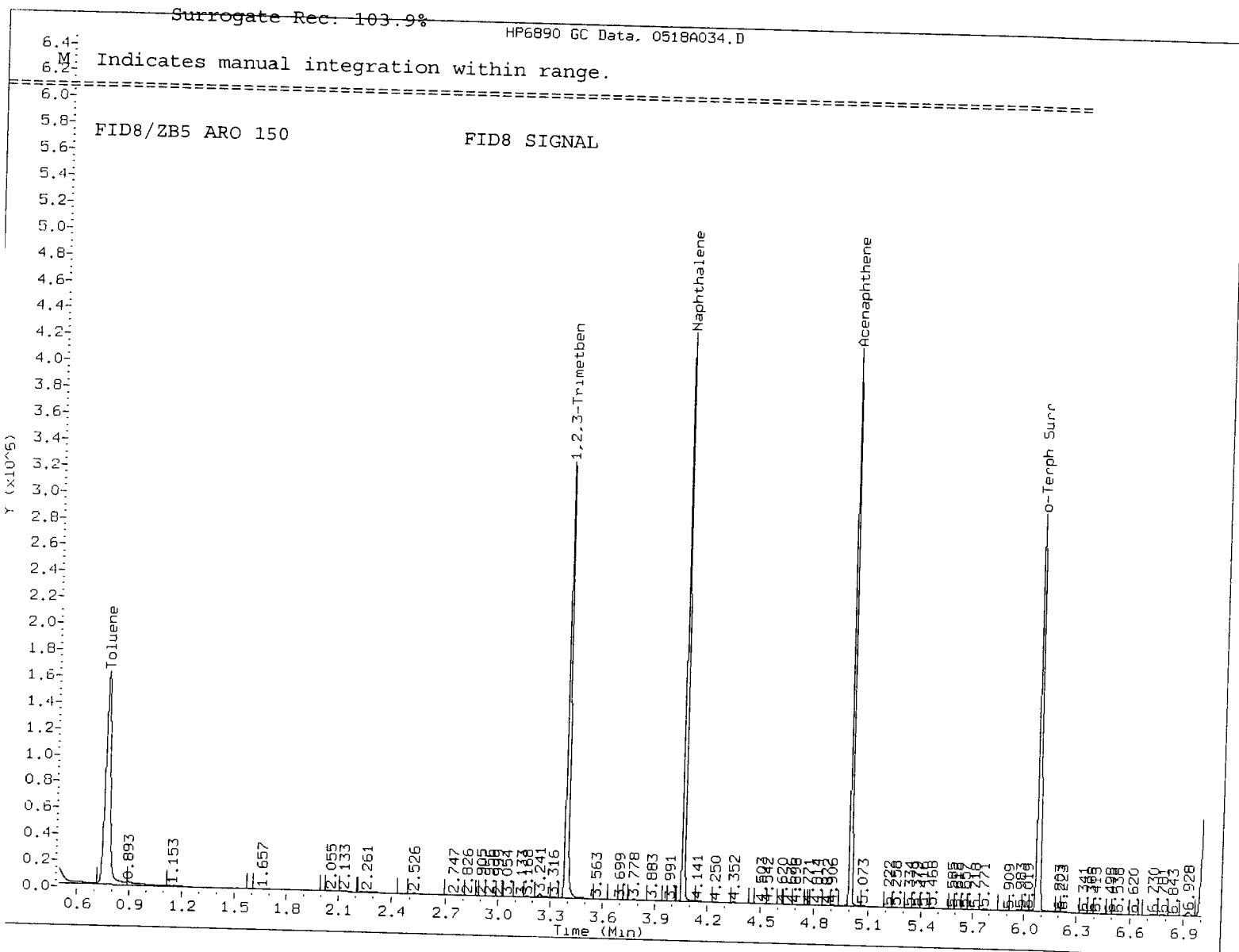
ARI ID: ARO 150
Client ID:
Injection: 18-MAY-2012 22:28
Matrix: SOIL
Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 6592680 | 330 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 3095143 | 159 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 2981916 | 158 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 3568661 | 160 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 3766518 | 153 | (7.107 - 11.593) |

Surrogate Rec. 103.9%

HP6890 GC Data, 0518A034.D



Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A035.D
 Lab Smp Id: ARO 200
 Inj Date : 18-MAY-2012 22:53
 Operator : MH
 Smp Info : ARO 200
 Misc Info :
 Comment :
 Method : /chem2/fid8.i/20120518AROM.b/EPHARom.m
 Meth Date : 19-May-2012 10:13 jrains
 Cal Date : 18-MAY-2012 22:53
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50

Inst ID: fid8.i
 Quant Type: ESTD
 Cal File: 0518A035.D
 Calibration Sample, Level: 5
 Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | AMOUNTS | |
|-----------------------|-----------------------|--------|--------|----------|--------------------|-------------------|
| | | | | | CAL-AMT (ng/mL) | ON-COL (ng/mL) |
| 2 Toluene | 0.757 | 0.755 | 0.002 | 4139534 | 200.000 | 197.437 |
| 3 1,2,3-Trimetben | 3.389 | 3.387 | 0.002 | 3664156 | 200.000 | 192.629 |
| 4 Naphthalene | 4.066 | 4.062 | 0.004 | 3742154 | 200.000 | 192.182 |
| 7 Acenaphthene | 5.007 | 5.001 | 0.006 | 3610274 | 200.000 | 191.112 |
| 11 o-Terph Surr | 6.082 | 6.074 | 0.008 | 3935550 | 200.000 | 190.874 |
| 75 1-chlorooctodecane | Compound Not Detected | | | | | |
| 13 Pyrene | 7.031 | 7.007 | 0.024 | 4341791 | 200.000 | 194.286 |
| 21 Benzo-ghi-per | 11.529 | 11.493 | 0.036 | 4877445 | 200.000 | 198.208 |

Data File: /chem2/fid8.1/20120518AROH,b/0518A035.D

Page 2

Date : 18-MAY-2012 22:53

Client ID:

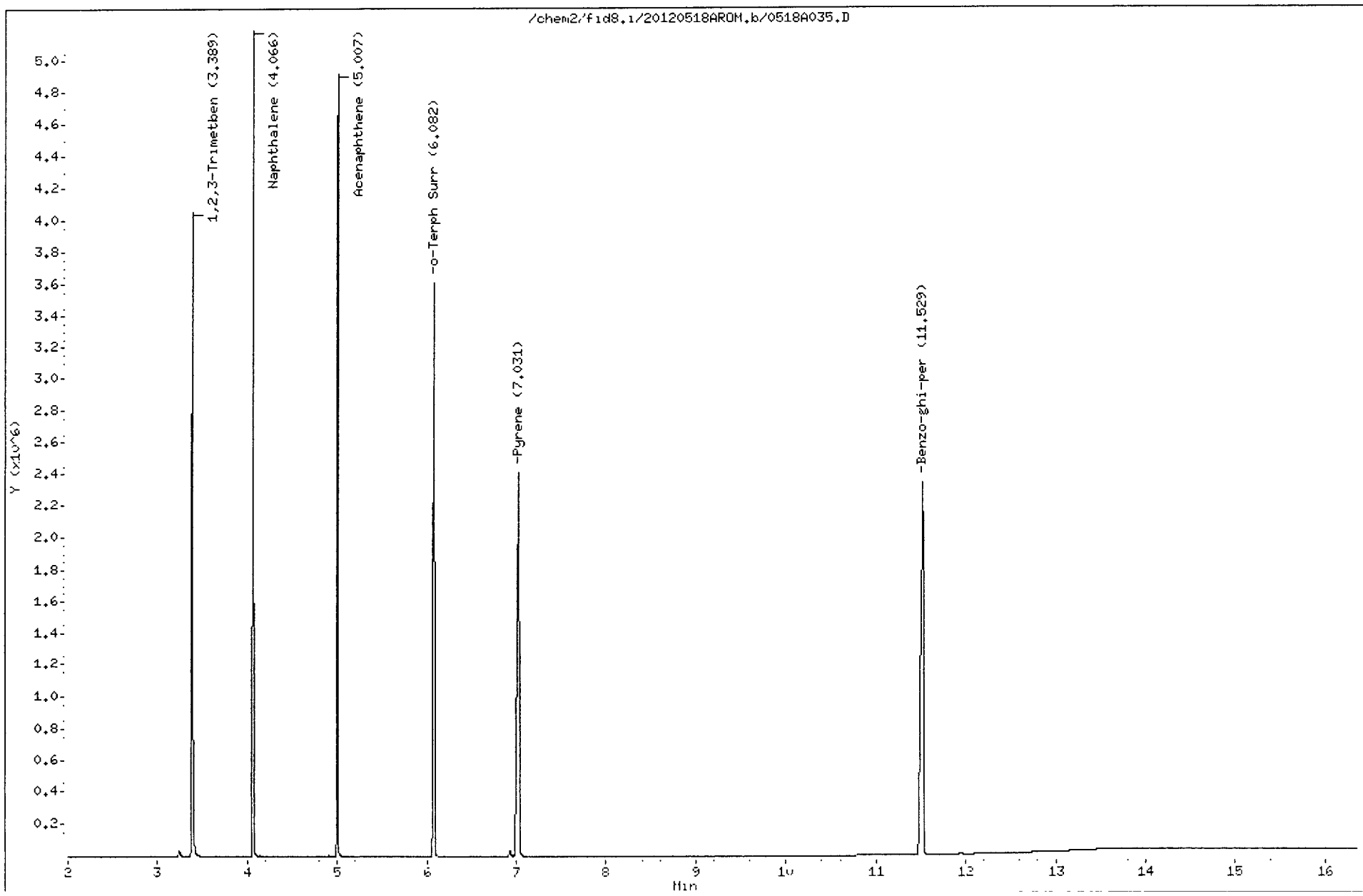
Instrument: fid8.1

Sample Info: ARO 200

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



UW85 : 00088

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A035.D
 Method: /chem2/fid8.i/20120518AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 05/19/2012
 Macro: AROM120911FID8

ARI ID: ARO 200
 Client ID:
 Injection: 18-MAY-2012 22:53
 Matrix: SOIL
 Dilution Factor: 1

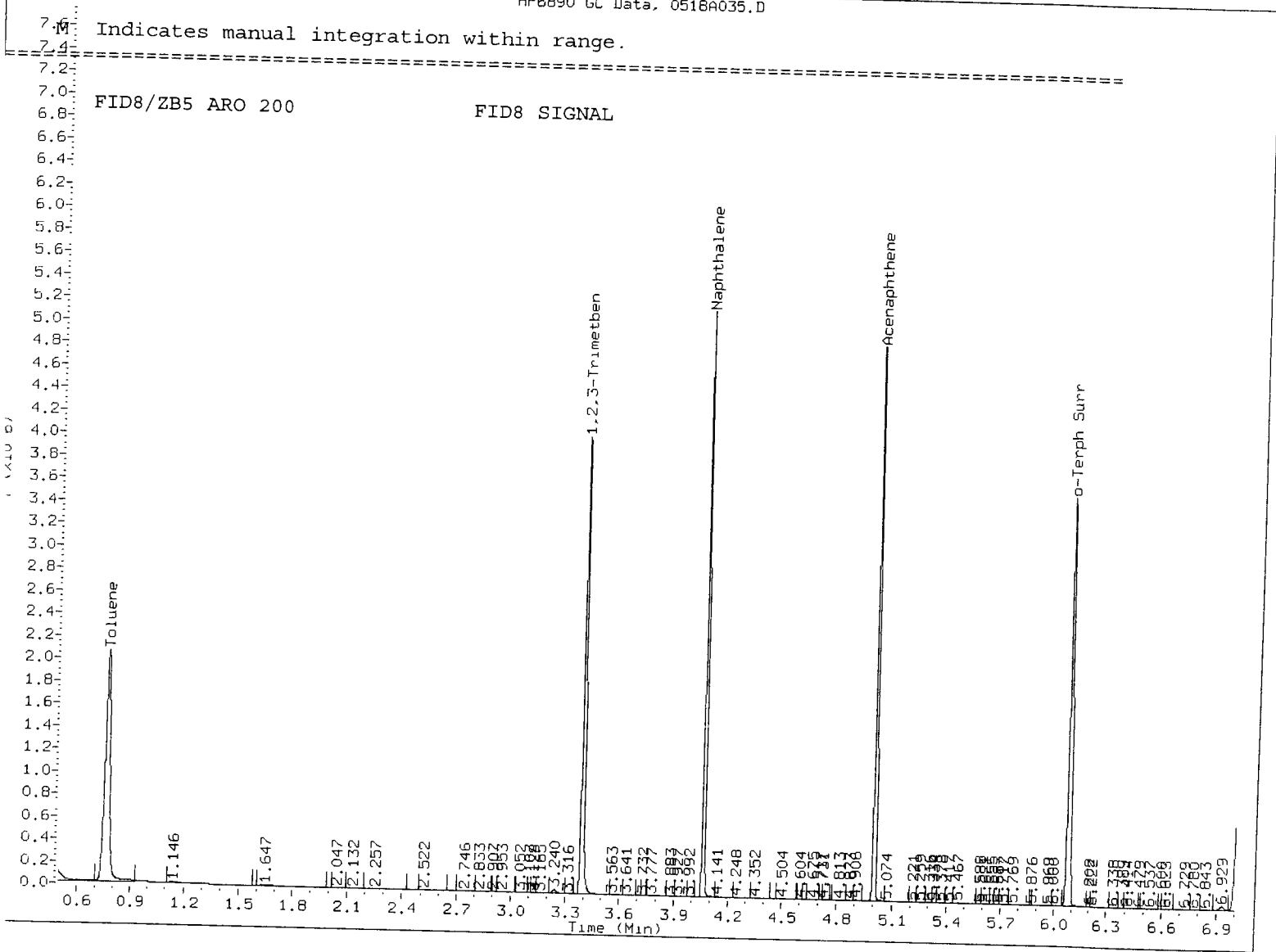
EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 7953332 | 398 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 3758493 | 193 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 3626749 | 192 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 4446568 | 199 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 4896120 | 199 | (7.107 - 11.593) |

Surrogate Rec. 127.2%

HP6890 GC Data, 0518A035.D

Indicates manual integration within range.



MH
5/25/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120518AROM.b/0518A036.D
Lab Smp Id: AROARO / CV
Inj Date : 18-MAY-2012 23:17
Operator : MH
Smp Info : AROARO
Misc Info :
Comment :
Method : /chem2/fid8.i/20120518AROM.b/EPHArOm.m
Meth Date : 19-May-2012 10:13 j rains
Cal Date : 18-MAY-2012 22:53
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

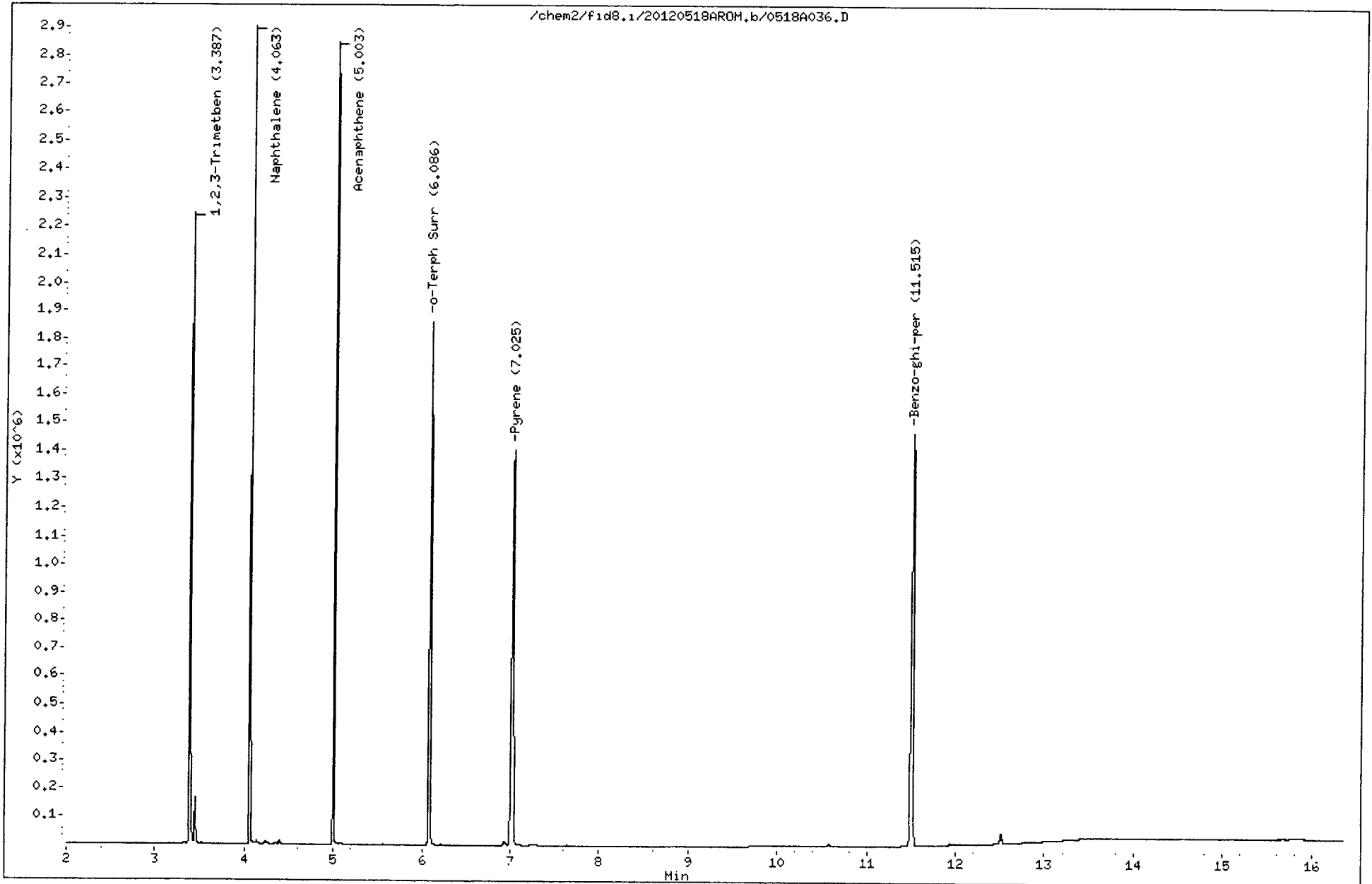
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A035.D
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

| Compounds | | | | CONCENTRATIONS | | |
|-----------------------|------------------------|--------|--------|----------------|----------------------|------------------|
| | RT | EXP RT | DLT RT | RESPONSE | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | 0.755 | 0.755 | 0.000 | 2124448 | 101.327 | 101.327 |
| 3 1,2,3-Trimetben | 3.387 | 3.387 | 0.000 | 2069967 | 108.821 | 108.820 |
| 4 Naphthalene | 4.063 | 4.062 | 0.001 | 2023668 | 103.928 | 103.927 |
| 7 Acenaphthene | 5.003 | 5.001 | 0.002 | 1954049 | 103.439 | 103.438 |
| 11 o-Terph Surr | 6.086 | 6.074 | 0.012 | 2025360 | 98.2303 | 98.230 |
| 75 1-chlorooctodecane | Compound Not Detected. | | | | | |
| 13 Pyrene | 7.025 | 7.007 | 0.018 | 2337551 | 104.601 | 104.600 |
| 21 Benzo-ghi-per | 11.515 | 11.493 | 0.022 | 2410395 | 97.9531 | 97.953 |



Analytical Resources Inc.
EPH Aromatics Report

Data file: /chem2/fid8.i/20120518AROM.b/0518A036.D
Method: /chem2/fid8.i/20120518AROM.b/EPHARom.m
Instrument: fid8.i
Operator: MH
Report Date: 05/25/2012
Macro: AROM120911FID8

ARI ID: AROARO
Client ID:
Injection: 18-MAY-2012 23:17
Matrix: SOIL
Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 4449529 | 223 | (0.655 - 3.487) |
| C10-C12 Arom. | 19472 | 2048909 | 105 | (3.487 - 4.162) |
| C12-C16 Arom. | 18891 | 2008866 | 106 | (4.162 - 5.101) |
| C16-C21 Arom. | 22347 | 2388770 | 107 | (5.101 - 7.107) |
| C21-C34 Arom. | 24608 | 2450210 | 100 | (7.107 - 11.593) |

Surrogate Rec: 65.5%

HP6890 GC Data, 0518A036.D

4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

Indicates manual integration within range.

FID8/ZB5 AROARO

FID8 SIGNAL

Toluene

1,2,3-Trimetben

Naphthalene

Acenaphthene

o-Terph Surr

0.141
1.641
2.044
2.130
2.255
2.409
2.528
2.646
2.745
2.824
2.897
2.997
3.014
3.114
3.214
3.329
3.450
3.519
3.665
3.786
3.884
3.928
4.139
4.229
4.368
4.492
4.608
4.774
4.807
5.096
5.189
5.276
5.376
5.476
5.576
5.676
5.776
5.876
5.984
6.208
6.294
6.416
6.480
6.573
6.668
6.768
6.934

Time (Min)

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid8.i/20120518AROM.b/EPHArOm.m
Batch File: /chem2/fid8.i/20120518AROM.b
Inst ID: fid8.i

| ID. | RT01 | RT02 | RT03 | RT04 | RT05 |
|------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME: | 0518A031 | 0518A032 | 0518A033 | 0518A034 | 0518A035 |
| INJ. DATE: | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 | 18-MAY-2012 |
| INJ. TIME | 21.13 | 21.38 | 22.03 | 22.28 | 22.53 |

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 2 Toluene | 0.755 | 0.755 | 0.753 | 0.763 | 0.757 | 0.755 | 0.705-0.805 | 0.757 | 0.004 |
| 75 1-chlorooctodecane | +++++ | +++++ | +++++ | +++++ | +++++ | 6.780 | 6.730-6.830 | +++++ | +++++ |
| 3 1,2,3-Trimetben | 3.387 | 3.386 | 3.387 | 3.389 | 3.389 | 3.387 | 3.337-3.437 | 3.388 | 0.001 |
| 4 Naphthalene | 4.062 | 4.062 | 4.063 | 4.064 | 4.066 | 4.062 | 4.012-4.112 | 4.063 | 0.002 |
| 7 Acenaphthene | 5.001 | 5.001 | 5.003 | 5.005 | 5.007 | 5.001 | 4.951-5.051 | 5.003 | 0.002 |
| 11 o-Terph Surr | 6.074 | 6.080 | 6.078 | 6.081 | 6.082 | 6.074 | 6.024-6.124 | 6.079 | 0.003 |
| 13 Pyrene | 7.007 | 7.013 | 7.017 | 7.025 | 7.031 | 7.007 | 6.957-7.057 | 7.018 | 0.010 |
| 21 Benzo-ghi-per | 11.493 | 11.500 | 11.511 | 11.519 | 11.529 | 11.493 | 11.443-11.543 | 11.510 | 0.015 |

Reviewer 1
Reviewer 2

MH

MB

Date: 5/25/12
Date: 5/25/12

056000 : 058400

EPH Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: UW85



GC Analyst Notes / Corrective Action Log

ARI Project ID: UW85 Client ID: Anchor QEA, LLC.

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) Other

Parameter(s): WA EPH

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/18/12 Analysis Start: 6/8/12

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
Manual Integrations for ICal? YES / NO Manual Integrations for Samples? 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] Date: 6/11/12

Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log
FID-8 Agilent 6890N - Serial No.: US10138016

Date: 6/8/12 Analysis: EPH Analyst: MH
 Column 1 Serial No.: 167634 Column Type: ZB-5
 Column 2 Serial No.: _____ Column Type: _____
 GC Method: EPH ICal Date: 5/18/12 Injection Volume: 1.1

| IS | ICal/Ccal | ICV |
|---------------|--------------------------|----------------|
| IS | 1876-4 1987-2 | ICV |
| | 1978-3 | |
| | 1978-1 | |
| | 1978-4 | |
| | | |

Document All Maintenance Tasks In StarLIMS

Aliphatic

| Inject Date/Time | Filename | DF | LabID | ClientID |
|----------------------|------------|----|--------------|---------------------|
| 1 08-JUN-2012 11:47 | 0608A001.D | 1 | RINSE | |
| 2 08-JUN-2012 12:11 | 0608A002.D | 1 | ALIPH IB | |
| 3 08-JUN-2012 12:37 | 0608A003.D | 1 | ALIPHATIC #1 | |
| 4 08-JUN-2012 13:02 | 0608A004.D | 1 | UW94MBS1 | UW94MBS1 |
| 5 08-JUN-2012 13:28 | 0608A005.D | 1 | UW94LCSS1 | UW94LCSS1 |
| 6 08-JUN-2012 13:53 | 0608A006.D | 1 | UW94LCSDS1 | UW94LCSDS1 |
| 7 08-JUN-2012 14:18 | 0608A007.D | 1 | UW94A | C01 |
| 8 08-JUN-2012 14:43 | 0608A008.D | 1 | UW94B | C02 |
| 9 08-JUN-2012 15:09 | 0608A009.D | 1 | UW85A | MS001-SS-120515 |
| 10 08-JUN-2012 15:34 | 0608A010.D | 1 | UW85AMS | MS001-SS-120515 MS |
| 11 08-JUN-2012 15:59 | 0608A011.D | 1 | UW85AMSD | MS001-SS-120515 MSD |
| 12 08-JUN-2012 16:24 | 0608A012.D | 1 | UW85B | MS002-SS-120515 |
| 13 08-JUN-2012 16:49 | 0608A013.D | 1 | UW85C | MS003-SS-120515 |
| 14 08-JUN-2012 17:14 | 0608A014.D | 1 | UW85D | MS006-SS-120515 |
| 15 08-JUN-2012 17:40 | 0608A015.D | 1 | ALIPHATIC #2 | |

MH 6/11/12

Aromatic

| Inject Date/Time | Filename | DF | LabID | ClientID |
|----------------------|------------|----|-------------|---------------------|
| 1 08-JUN-2012 18:05 | 0608A016.D | 1 | AROM IB | |
| 2 08-JUN-2012 18:30 | 0608A017.D | 1 | AROMATIC #1 | |
| 3 08-JUN-2012 18:55 | 0608A018.D | 1 | UW94MBS1 | UW94MBS1 |
| 4 08-JUN-2012 19:20 | 0608A019.D | 1 | UW94LCSS1 | UW94LCSS1 |
| 5 08-JUN-2012 19:46 | 0608A020.D | 1 | UW94LCSDS1 | UW94LCSDS1 |
| 6 08-JUN-2012 20:11 | 0608A021.D | 1 | UW94A | C01 |
| 7 08-JUN-2012 20:36 | 0608A022.D | 1 | UW94B | C02 |
| 8 08-JUN-2012 21:01 | 0608A023.D | 1 | UW85A | MS001-SS-120515 |
| 9 08-JUN-2012 21:26 | 0608A024.D | 1 | UW85AMS | MS001-SS-120515 MS |
| 10 08-JUN-2012 21:52 | 0608A025.D | 1 | UW85AMSD | MS001-SS-120515 MSD |
| 11 08-JUN-2012 22:17 | 0608A026.D | 1 | UW85B | MS002-SS-120515 |
| 12 08-JUN-2012 22:42 | 0608A027.D | 1 | UW85C | MS003-SS-120515 |
| 13 08-JUN-2012 23:07 | 0608A028.D | 1 | UW85D | MS006-SS-120515 |
| 14 08-JUN-2012 23:32 | 0608A029.D | 1 | AROMATIC #2 | |

MH 6/11/12

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A002.D
Lab Smp Id: ALIPH IB
Inj Date : 08-JUN-2012 12:11
Operator : MH
Smp Info : ALIPH IB
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah
Cal Date : 18-MAY-2012 13:46
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | | | | | | | |
| 3 C10 | 3.284 | 3.282 | 0.002 | | 18 | 0.000948 | 0.000 |
| 45 C12 | 4.104 | 4.096 | 0.008 | | 55 | 0.00305 | 0.003 |
| 46 C16 | 5.256 | 5.261 | -0.005 | | 181 | 0.01065 | 0.010 |
| \$ 51 1-Chloro-Octadecane | 6.803 | 6.813 | -0.010 | | 2644623 | 151.138 | 151.137 |
| 47 C21 | | | | | | | |
| 48 C34 | 11.830 | 11.838 | -0.008 | | 90 | 0.00529 | 0.005 |

Date : 08-JUN-2012 12:11

Client ID:

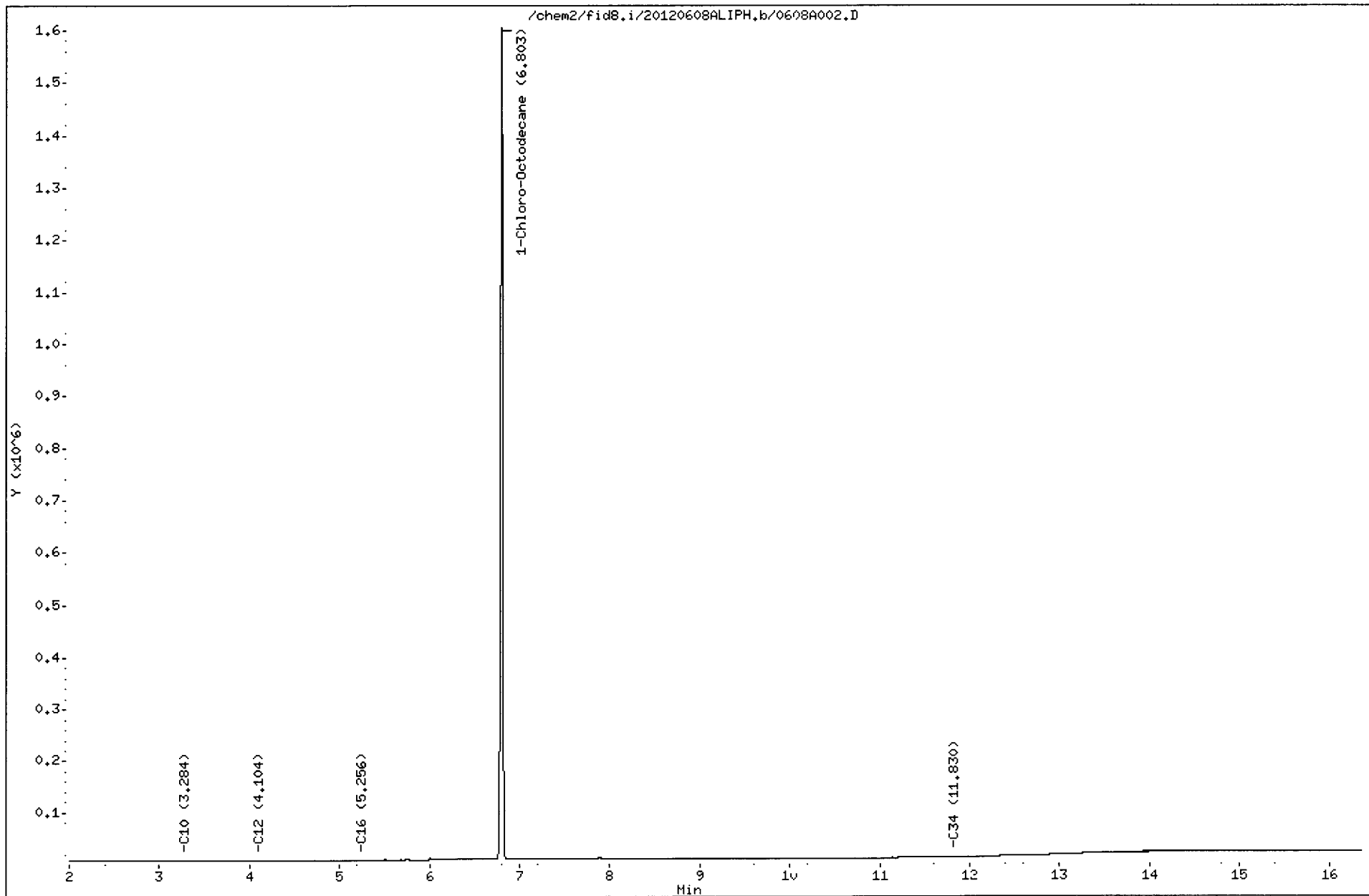
Instrument: fid8.1

Sample Info: ALIPH IB

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



0485:00098

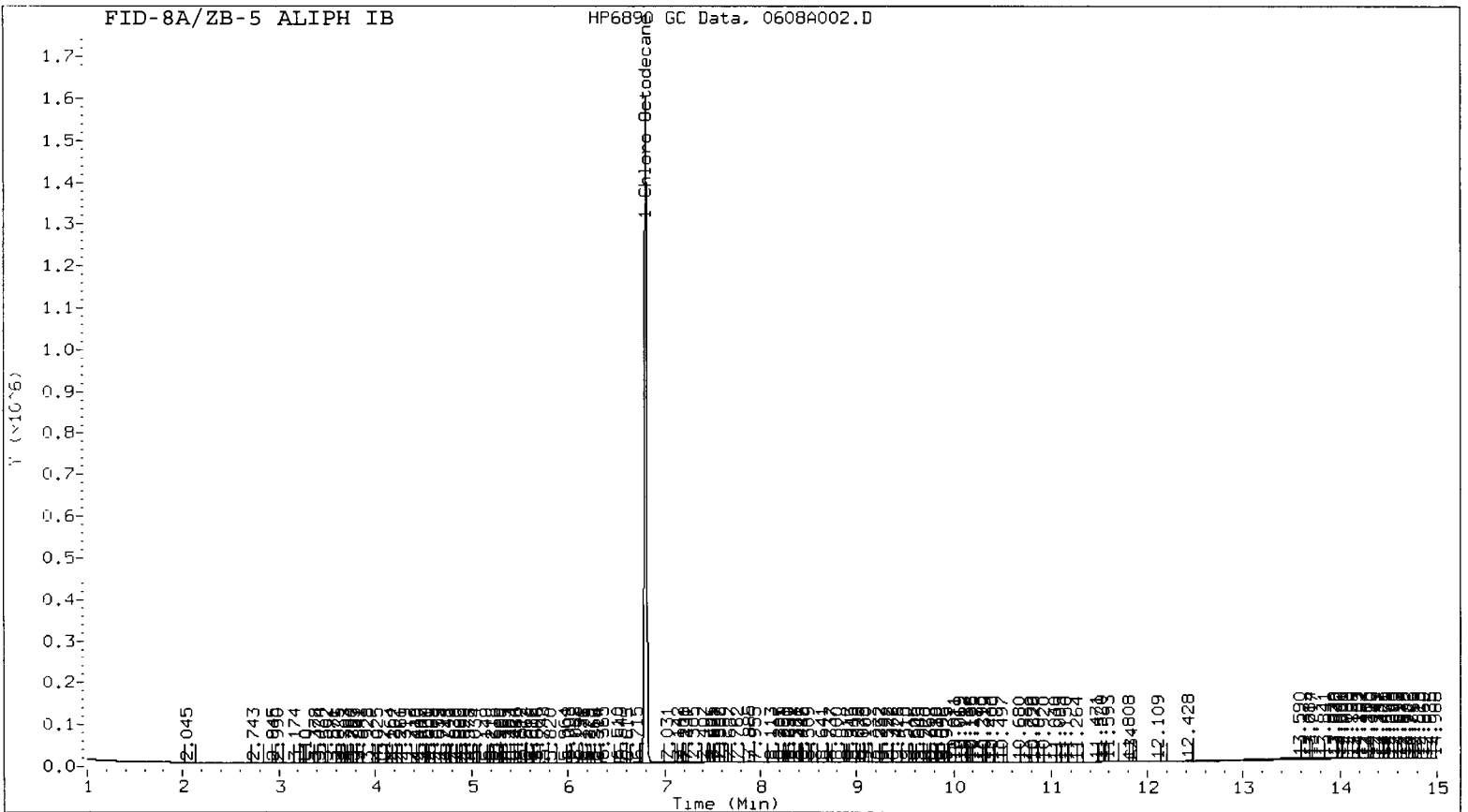
Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120608ALIPH.b/0608A002.D ARI ID: ALIPH IB
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m Client ID:
Instrument: fid8.i Injection: 08-JUN-2012 12:11
Operator: MH Matrix: SOIL
Macro: ALIPH120912FID8 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|-------|------|------------------|
| C8-C10 Aliph. | 7728 | 0 | (1.041 - 3.382) |
| C10-C12 Aliph. | 597 | 0 | (3.382 - 4.196) |
| C12-C16 Aliph. | 1703 | 0 | (4.196 - 5.361) |
| C16-C21 Aliph. | 30062 | 2 | (5.361 - 6.967) |
| C21-C34 Aliph. | 25957 | 2 | (6.967 - 11.938) |

Surrogate Rec: 100.8%



MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A003.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A003.D
Lab Smp Id: ALIPHATIC #1
Inj Date : 08-JUN-2012 12:37
Operator : MH
Smp Info : ALIPHATIC #1
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah
Cal Date : 18-MAY-2012 13:46
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | 1.110 | 1.141 | -0.031 | 1897139 | 95.2382 | 95.238 |
| 3 C10 | 3.274 | 3.282 | -0.008 | 1759063 | 92.6600 | 92.660 |
| 45 C12 | 4.090 | 4.096 | -0.006 | 1629356 | 90.4162 | 90.416 |
| 46 C16 | 5.254 | 5.261 | -0.007 | 1507669 | 88.7496 | 88.749 |
| \$ 51 1-Chloro-Octodecane | 6.798 | 6.813 | -0.015 | 1899253 | 108.540 | 108.540 |
| 47 C21 | 6.856 | 6.867 | -0.011 | 1761470 | 108.608 | 108.608 |
| 48 C34 | 11.831 | 11.838 | -0.007 | 1648770 | 96.9025 | 96.902 |

Date : 08-JUN-2012 12:37

Client ID:

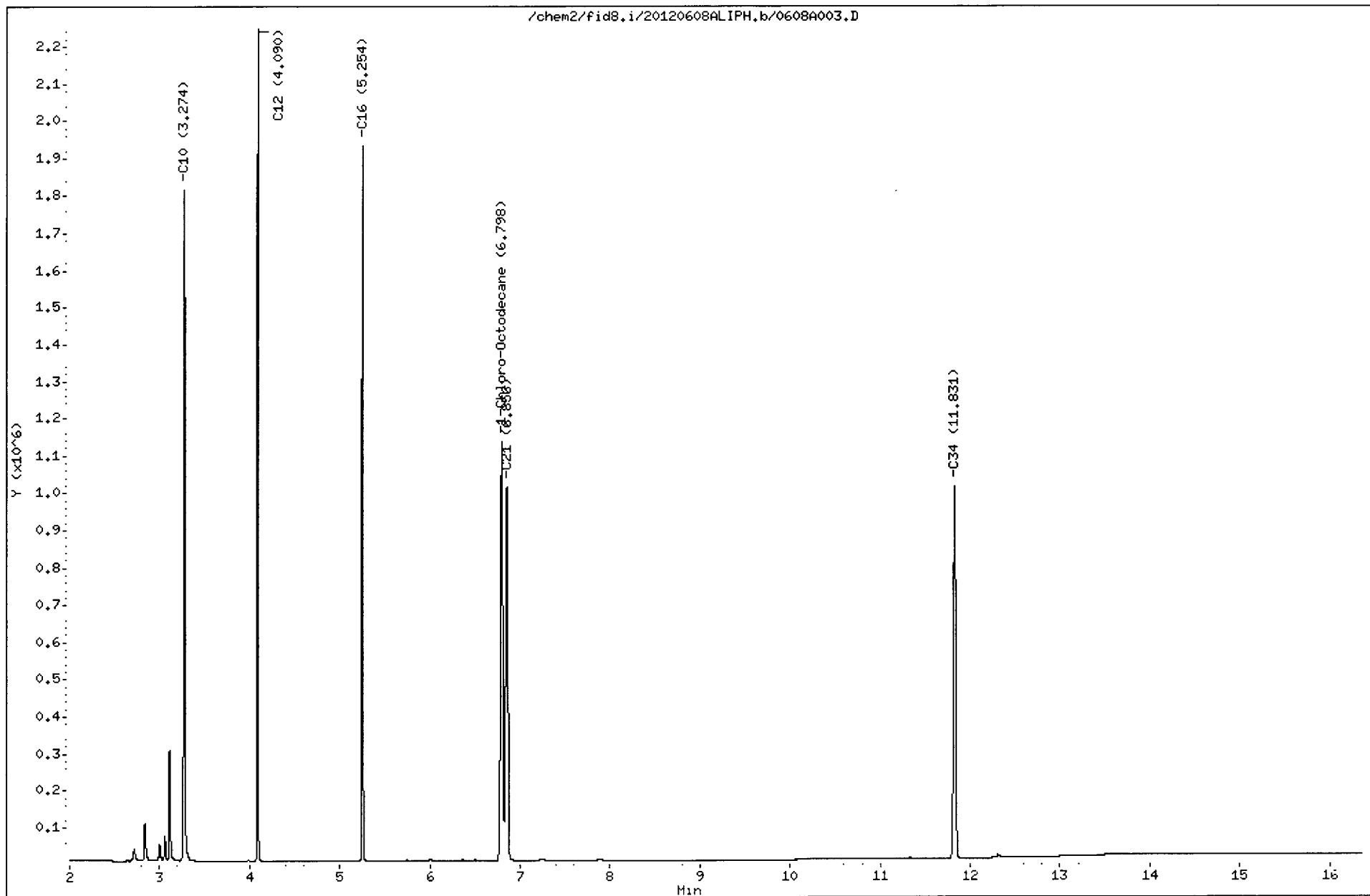
Instrument: fid8.i

Sample Info: ALIPHATIC #1

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



UW85:00101

Analytical Resources Inc.
WA. EPH Aliphatics Report

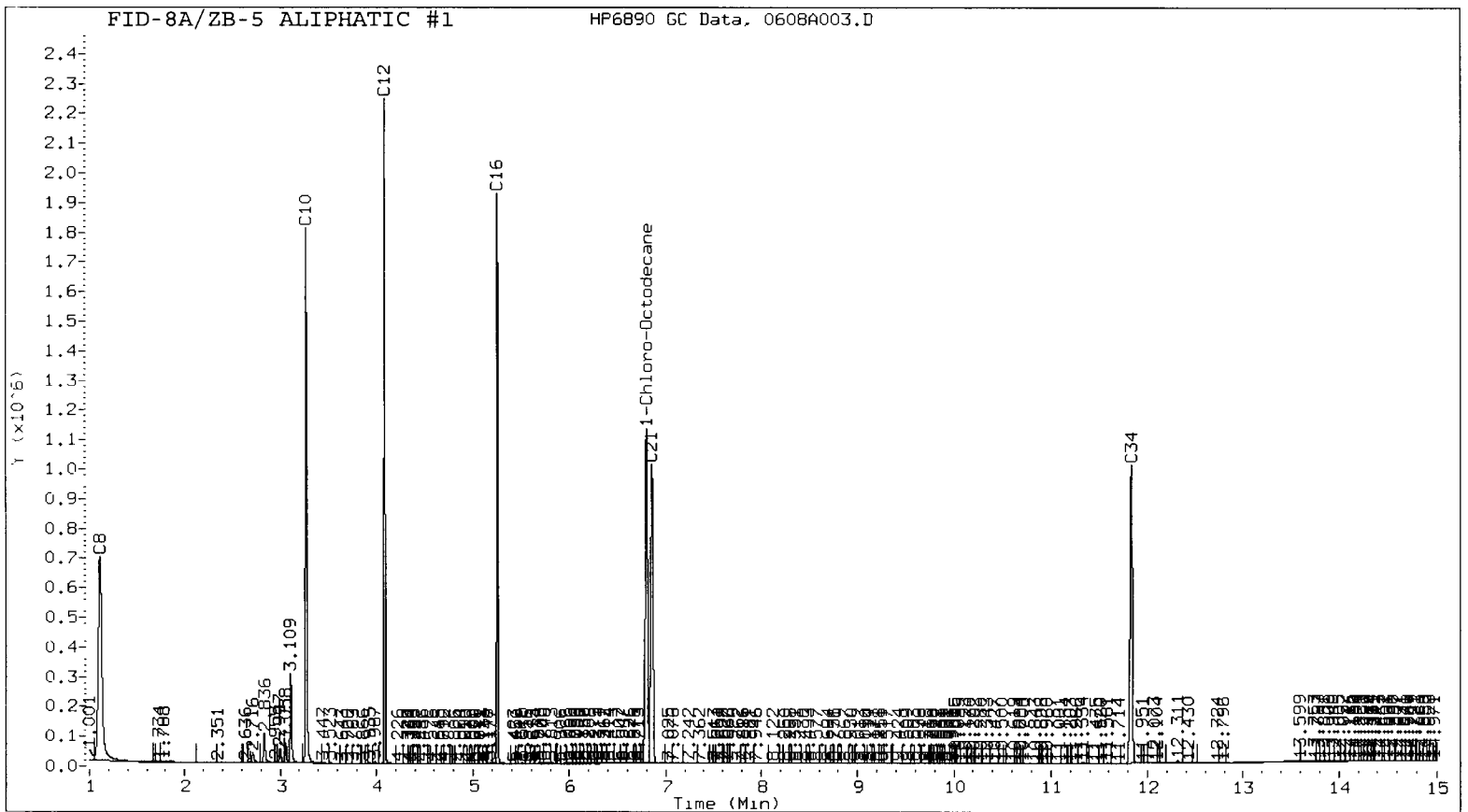
Data file: /chem2/fid8.i/20120608ALIPH.b/0608A003.D
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: ALIPHATIC #1
Client ID:
Injection: 08-JUN-2012 12:37
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 4345426 | 223 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1637006 | 91 | (3.382 - 4.196) |
| C12-C16 Aliph. | 1511581 | 89 | (4.196 - 5.361) |
| C16-C21 Aliph. | 1785574 | 110 | (5.361 - 6.967) |
| C21-C34 Aliph. | 1686154 | 99 | (6.967 - 11.938) |

Surrogate Rec: 72.4%



MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A004.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A004.D
Lab Smp Id: UW94MBS1 Client Smp ID: UW94MBS1
Inj Date : 08-JUN-2012 13:02
Operator : MH Inst ID: fid8.i
Smp Info : UW94MBS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|------------------------|--------|--------|----|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | Compound Not Detected. | | | | | | |
| 3 C10 | 3.274 | 3.282 | -0.008 | | 3480 | 0.18335 | 0.183 |
| 45 C12 | 4.090 | 4.096 | -0.006 | | 3877 | 0.21520 | 0.215 |
| 46 C16 | 5.262 | 5.261 | 0.001 | | 4403 | 0.25923 | 0.259 |
| \$ 51 1-Chloro-Octodecane | 6.802 | 6.813 | -0.011 | | 2130030 | 121.729 | 121.729 |
| 47 C21 | Compound Not Detected. | | | | | | |
| 48 C34 | 11.827 | 11.838 | -0.011 | | 166 | 0.00980 | 0.009 |

Date : 08-JUN-2012 13:02

Client ID: UM94MBS1

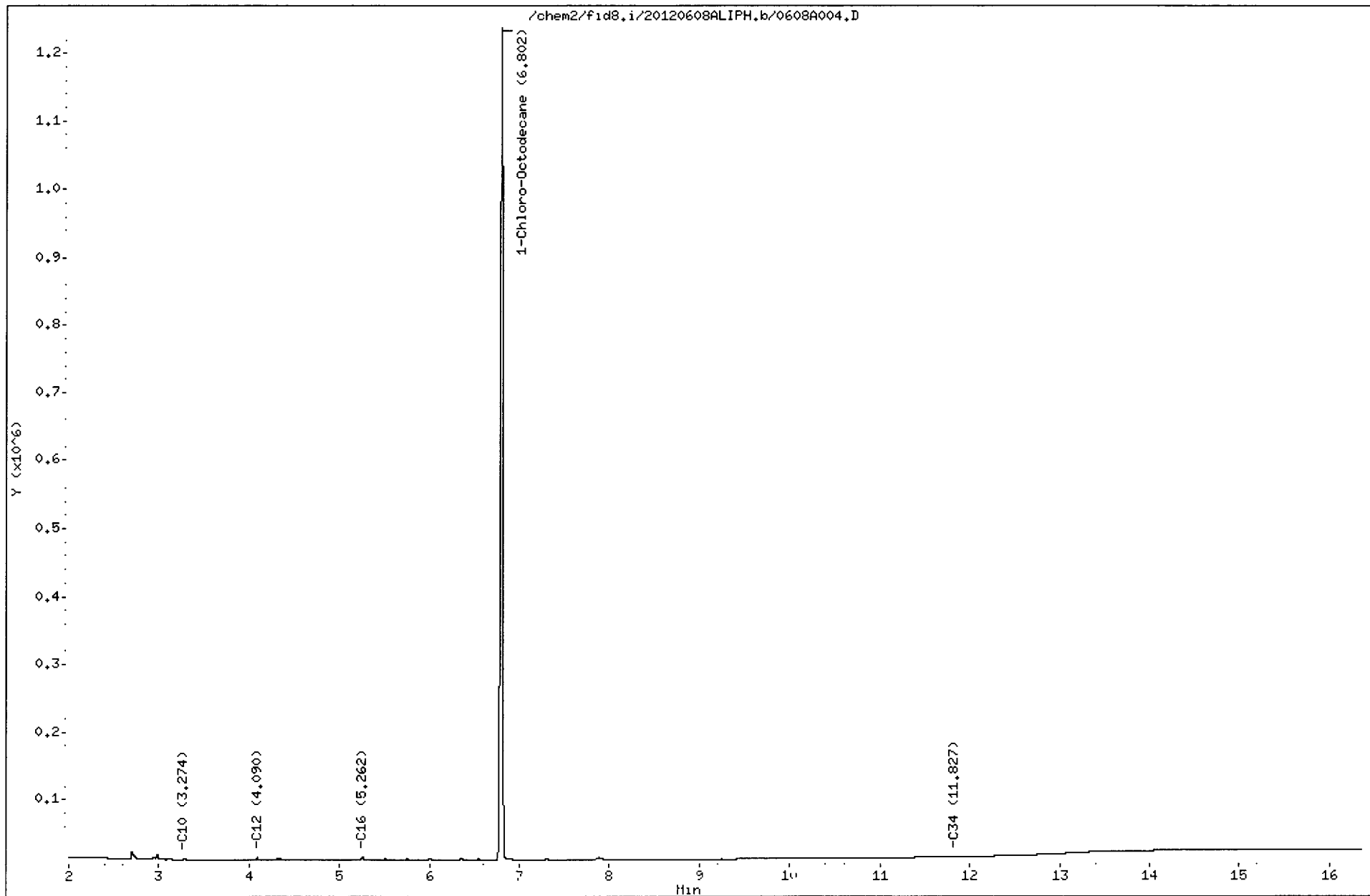
Sample Info: UM94MBS1

Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



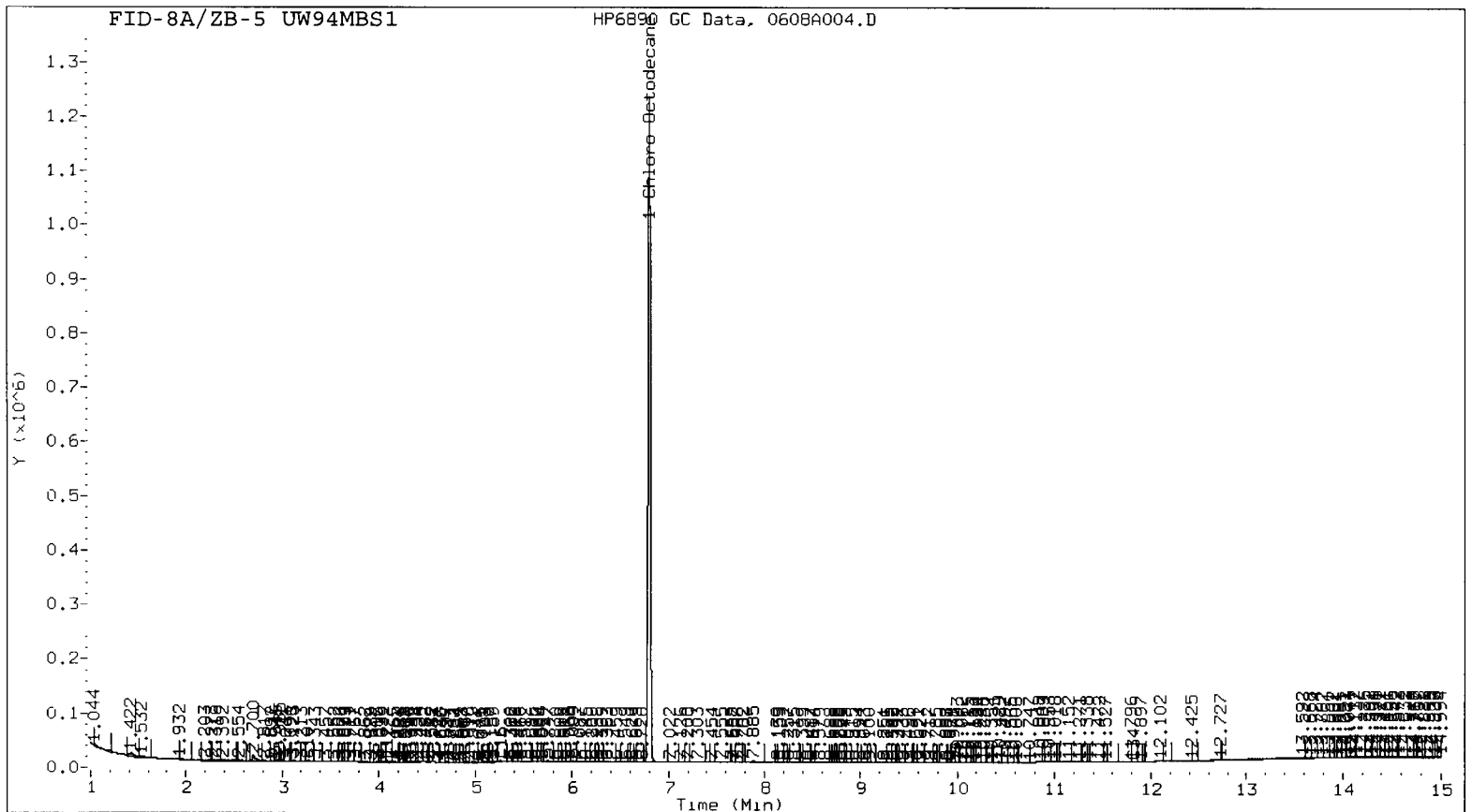
Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120608ALIPH.b/0608A004.D ARI ID: UW94MBS1
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m Client ID: UW94MBS1
Instrument: fid8.i Injection: 08-JUN-2012 13:02
Operator: MH Matrix: SOIL
Macro: ALIPH120912FID8 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|--------|------|------------------|
| C8-C10 Aliph. | 173691 | 9 | (1.041 - 3.382) |
| C10-C12 Aliph. | 9664 | 1 | (3.382 - 4.196) |
| C12-C16 Aliph. | 10733 | 1 | (4.196 - 5.361) |
| C16-C21 Aliph. | 16415 | 1 | (5.361 - 6.967) |
| C21-C34 Aliph. | 20423 | 1 | (6.967 - 11.938) |

Surrogate Rec: 81.2%



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A005.D
Lab Smp Id: UW94LCSS1 Client Smp ID: UW94LCSS1
Inj Date : 08-JUN-2012 13:28
Operator : MH Inst ID: fid8.i
Smp Info : UW94LCSS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|------------------------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | Compound Not Detected. | | | | | |
| 3 C10 | 3.270 | 3.282 | -0.012 | 1539276 | 81.0826 | 81.082 |
| 45 C12 | 4.088 | 4.096 | -0.008 | 1664555 | 92.3695 | 92.369 |
| 46 C16 | 5.254 | 5.261 | -0.007 | 1853324 | 109.097 | 109.096 |
| \$ 51 1-Chloro-Octadecane | 6.792 | 6.813 | -0.021 | 1912113 | 109.275 | 109.275 |
| 47 C21 | 6.849 | 6.867 | -0.018 | 1982349 | 122.227 | 122.227 |
| 48 C34 | 11.826 | 11.838 | -0.012 | 2212086 | 130.010 | 130.010 |

Date : 08-JUN-2012 13:28

Client ID: UW94LCSS1

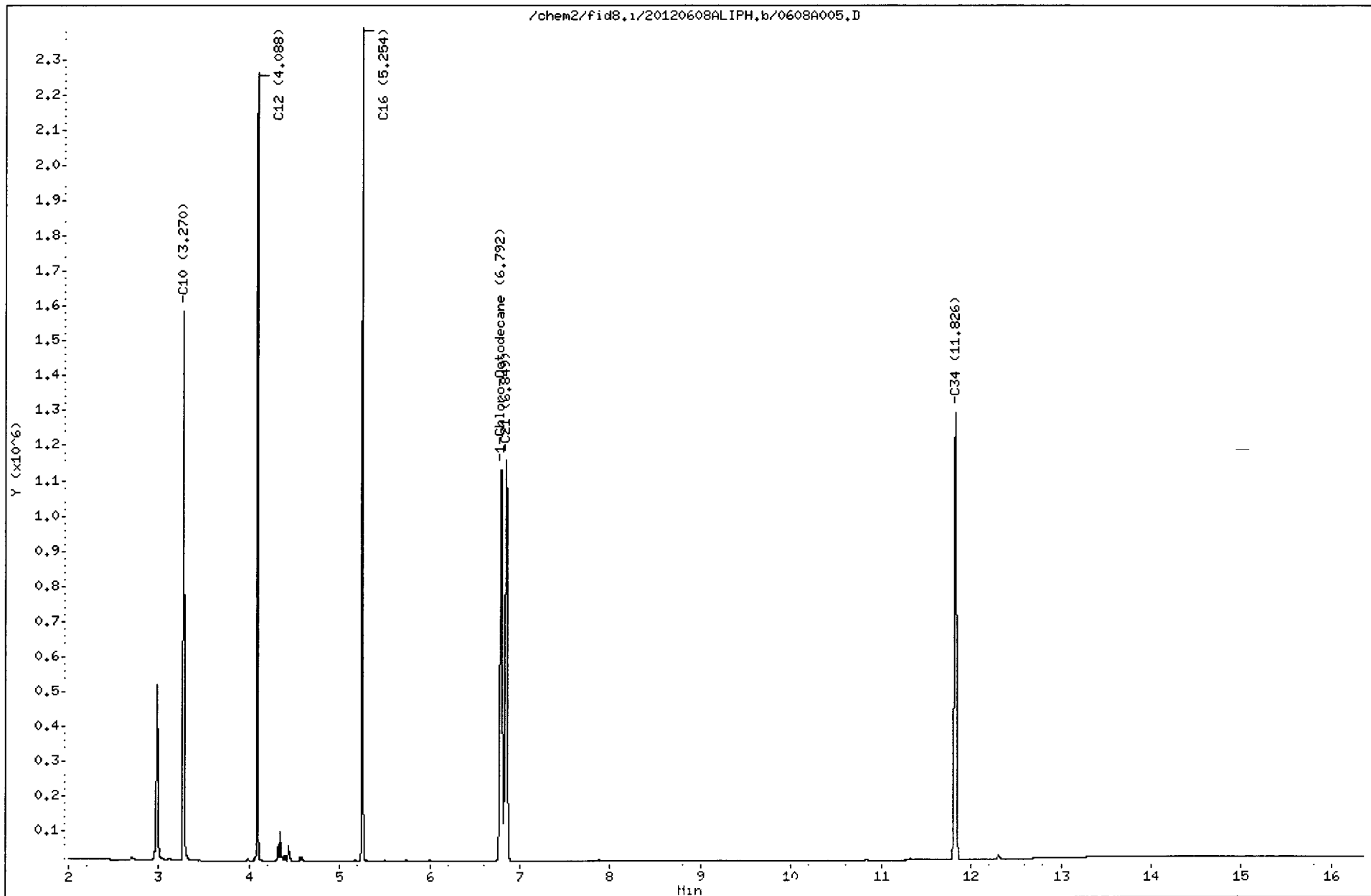
Sample Info: UW94LCSS1

Instrument: fid8.1

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



Analytical Resources Inc.
WA. EPH Aliphatics Report

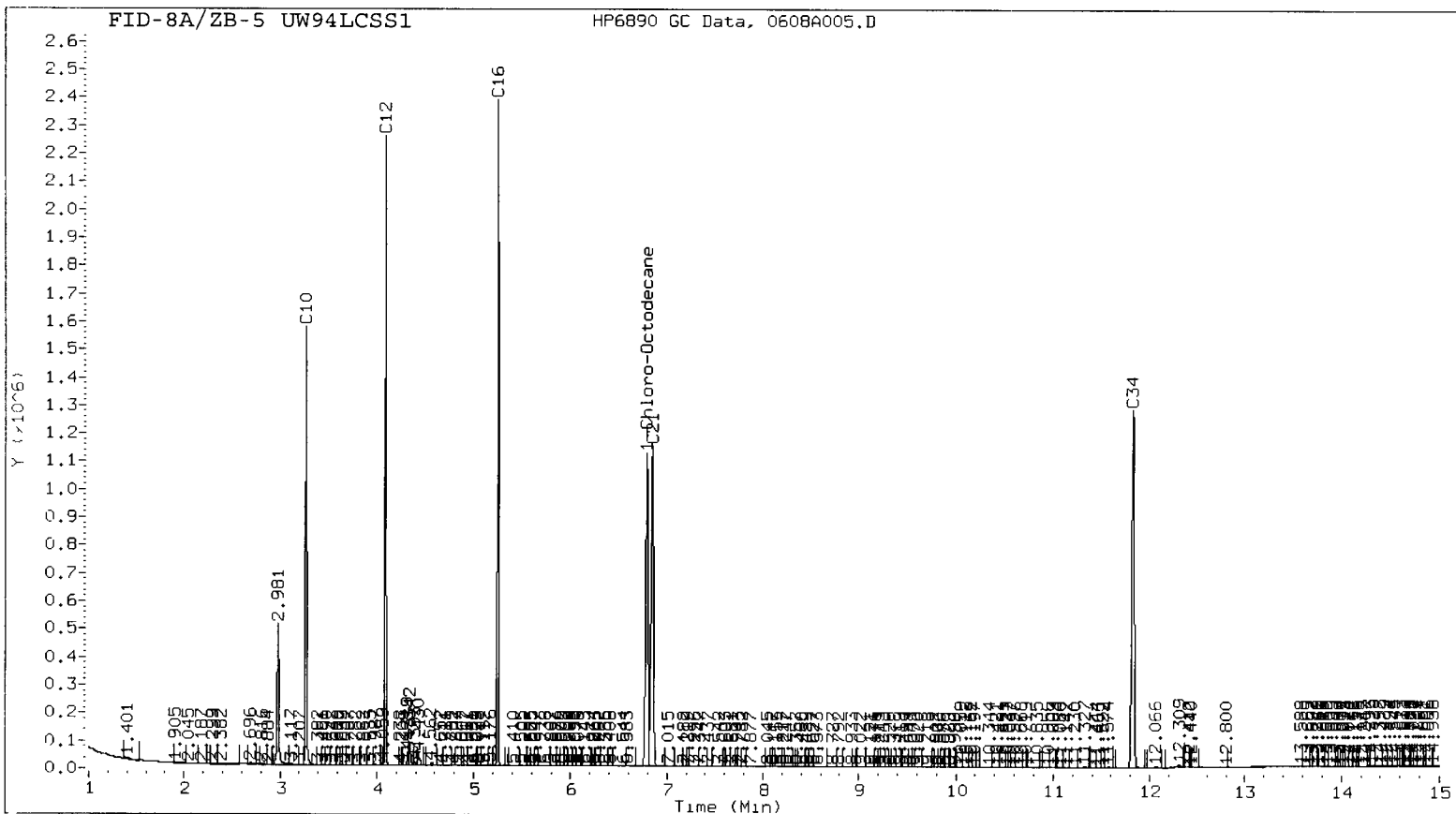
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Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: UW94LCSS1
Client ID: UW94LCSS1
Injection: 08-JUN-2012 13:28
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 2402655 | 124 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1688397 | 94 | (3.382 - 4.196) |
| C12-C16 Aliph. | 2067332 | 122 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2004367 | 124 | (5.361 - 6.967) |
| C21-C34 Aliph. | 2239093 | 132 | (6.967 - 11.938) |

Surrogate Rec: 72.9%



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A006.D
Lab Smp Id: UW94LCSDS1 Client Smp ID: UW94LCSDS1
Inj Date : 08-JUN-2012 13:53
Operator : MH Inst ID: fid8.i
Smp Info : UW94LCSDS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | 1.169 | 1.141 | 0.028 | 13544 | 0.67993 | 0.679 |
| 3 C10 | 3.269 | 3.282 | -0.013 | 1596416 | 84.0925 | 84.092 |
| 45 C12 | 4.089 | 4.096 | -0.007 | 1721875 | 95.5503 | 95.550 |
| 46 C16 | 5.254 | 5.261 | -0.007 | 1994445 | 117.404 | 117.403 |
| \$ 51 1-Chloro-Octodecane | 6.794 | 6.813 | -0.019 | 2122901 | 121.322 | 121.321 |
| 47 C21 | 6.853 | 6.867 | -0.014 | 2083846 | 128.485 | 128.485 |
| 48 C34 | 11.825 | 11.838 | -0.013 | 2419733 | 142.214 | 142.214 |

Date : 08-JUN-2012 13:53

Client ID: UW94LCSDS1

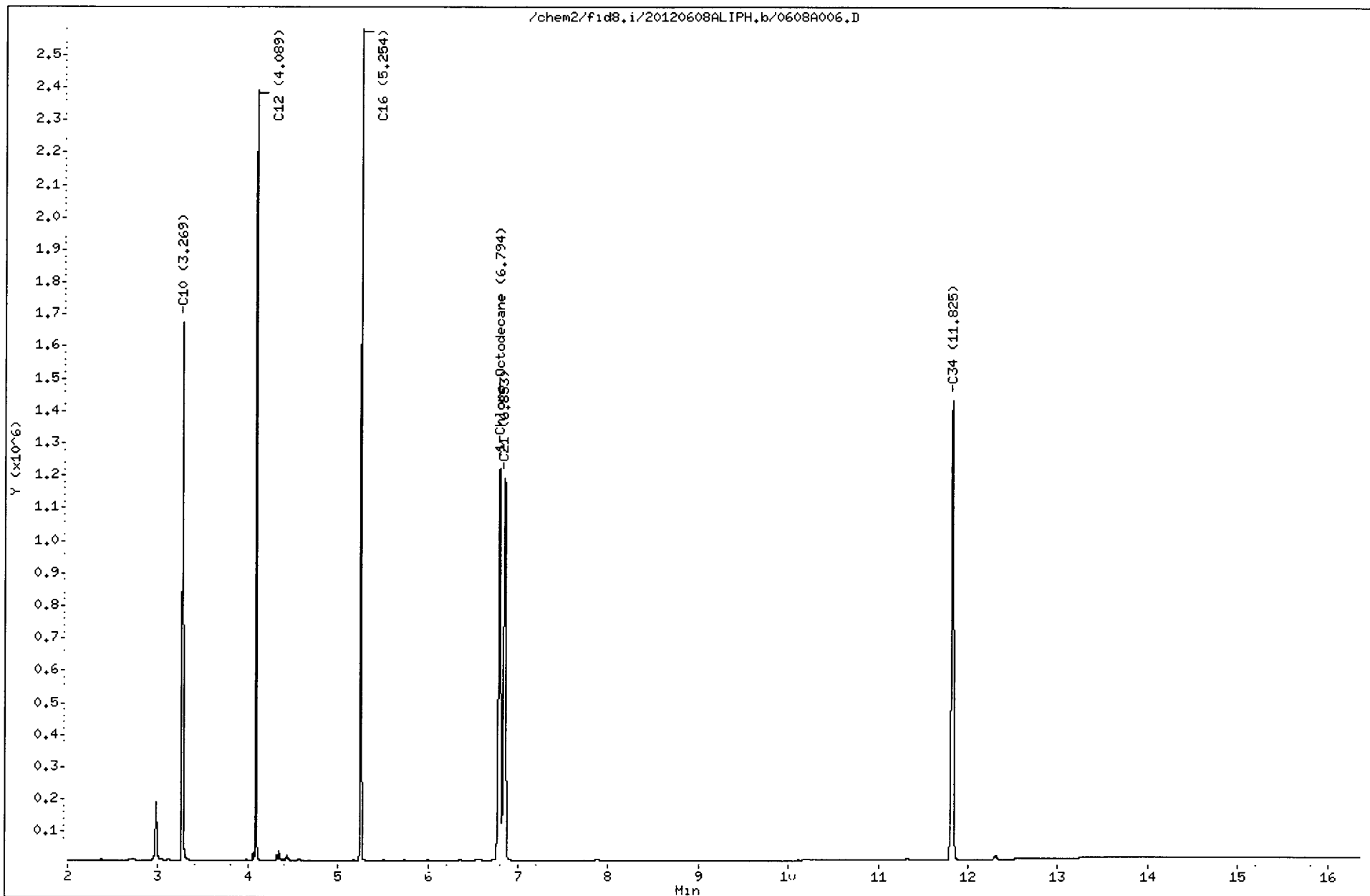
Sample Info: UW94LCSDS1

Instrument: fid8.i

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



Analytical Resources Inc.
WA. EPH Aliphatics Report

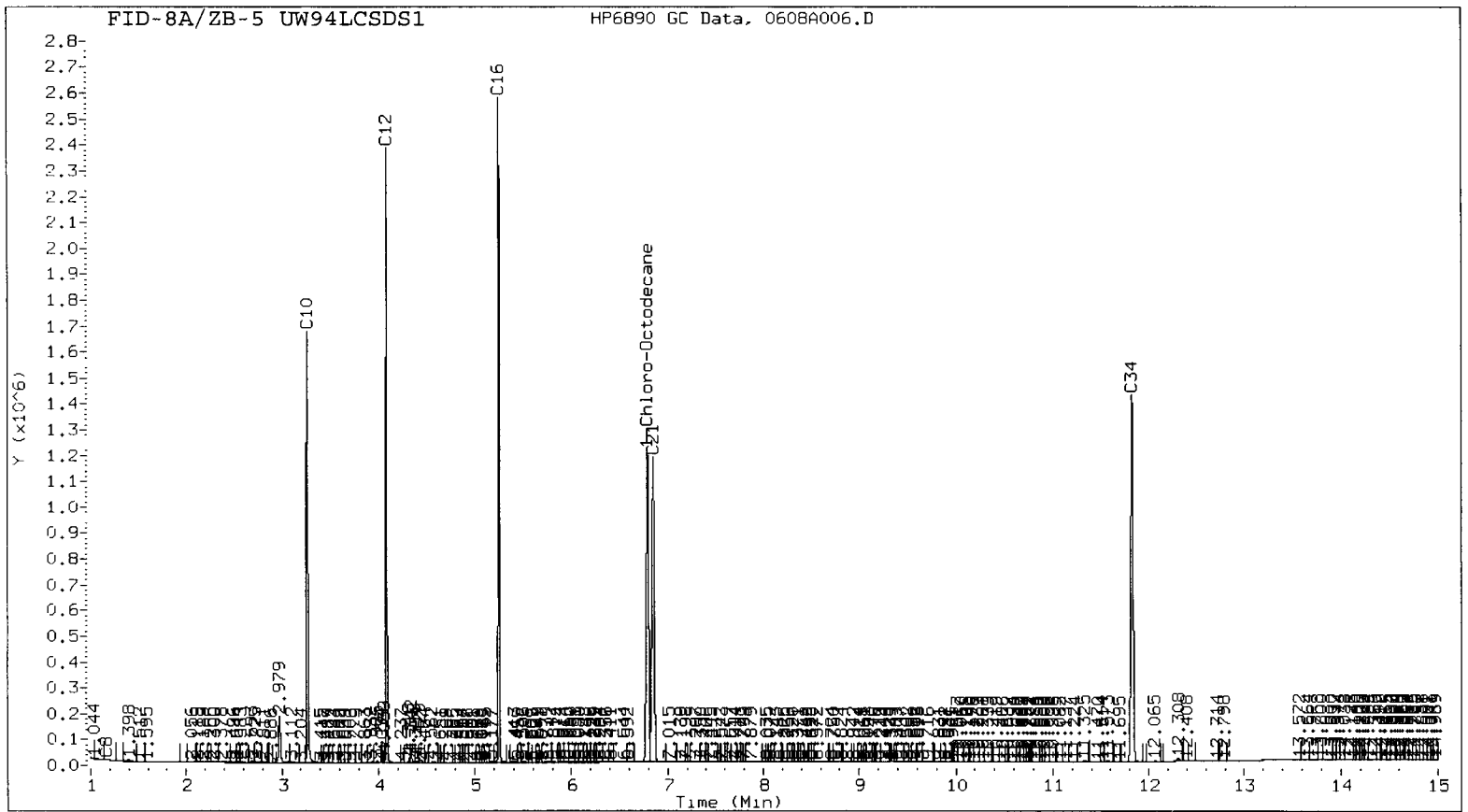
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Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: UW94LCSDS1
Client ID: UW94LCSDS1
Injection: 08-JUN-2012 13:53
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 1949277 | 100 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1750118 | 97 | (3.382 - 4.196) |
| C12-C16 Aliph. | 2075357 | 122 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2114018 | 130 | (5.361 - 6.967) |
| C21-C34 Aliph. | 2453144 | 144 | (6.967 - 11.938) |

Surrogate Rec: 80.9%



MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A010.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A010.D
Lab Smp Id: UW85AMS Client Smp ID: MS001-SS-120515 MS
Inj Date : 08-JUN-2012 15:34 Inst ID: fid8.i
Operator : MH
Smp Info : UW85AMS
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | CONCENTRATIONS | |
|--------------------------|--------|--------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | | | | | Compound Not Detected. | | |
| 3 C10 | 3.271 | 3.282 | -0.011 | 1367003 | 72.0080 | 72.007 | |
| 45 C12 | 4.089 | 4.096 | -0.007 | 1589738 | 88.2177 | 88.217 | |
| 46 C16 | 5.252 | 5.261 | -0.009 | 2023260 | 119.100 | 119.100 | |
| § 51 1-Chloro-Octadecane | 6.789 | 6.813 | -0.024 | 2277007 | 130.129 | 130.128 | |
| 47 C21 | 6.847 | 6.867 | -0.020 | 2279132 | 140.526 | 140.525 | |
| 48 C34 | 11.824 | 11.838 | -0.014 | 2501494 | 147.019 | 147.019 | |

Date : 08-JUN-2012 15:34

Client ID: MS001-SS-120515 MS

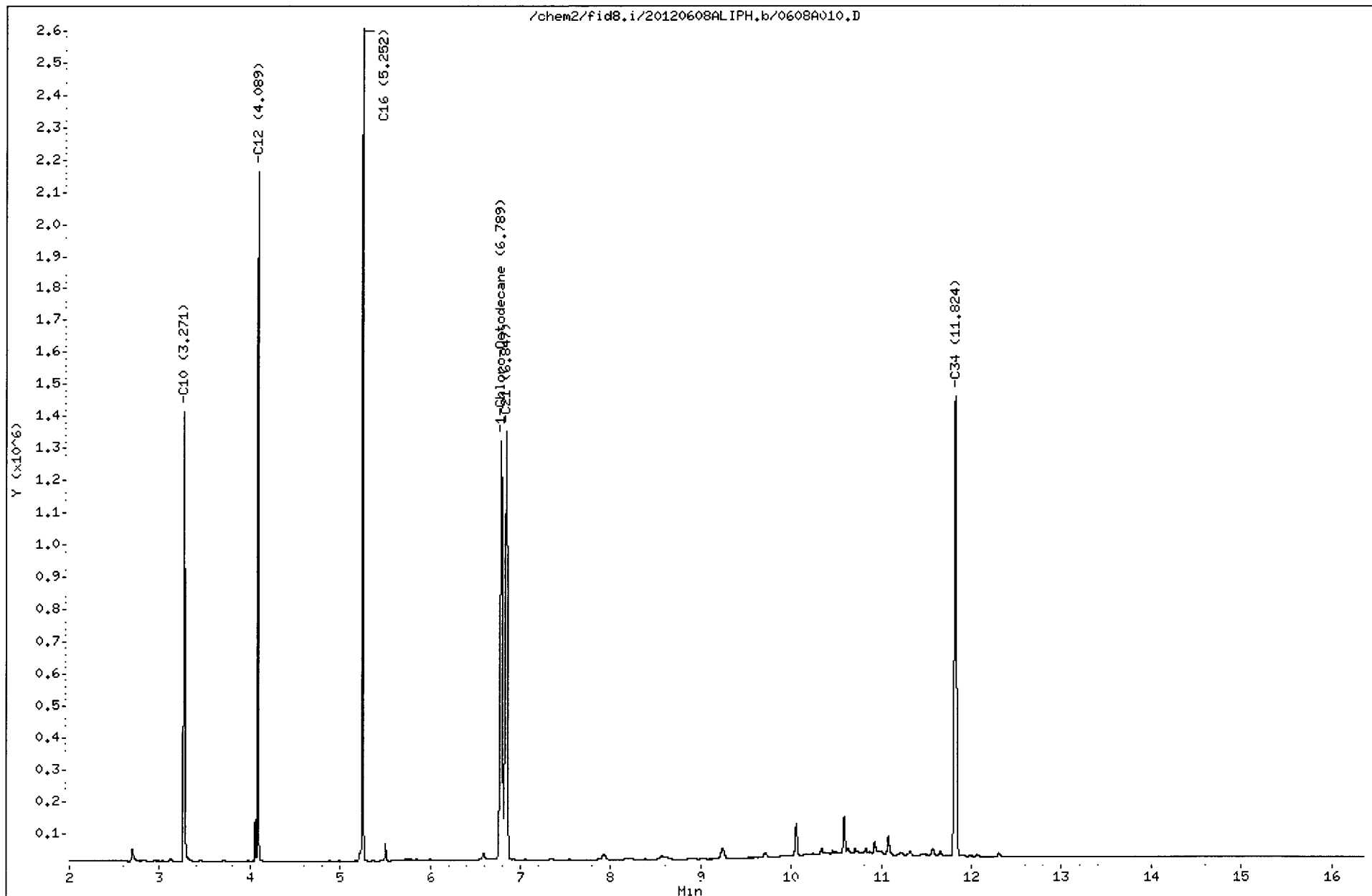
Sample Info: UW85AMS

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



UW85:00113

Analytical Resources Inc.
WA. EPH Aliphatics Report

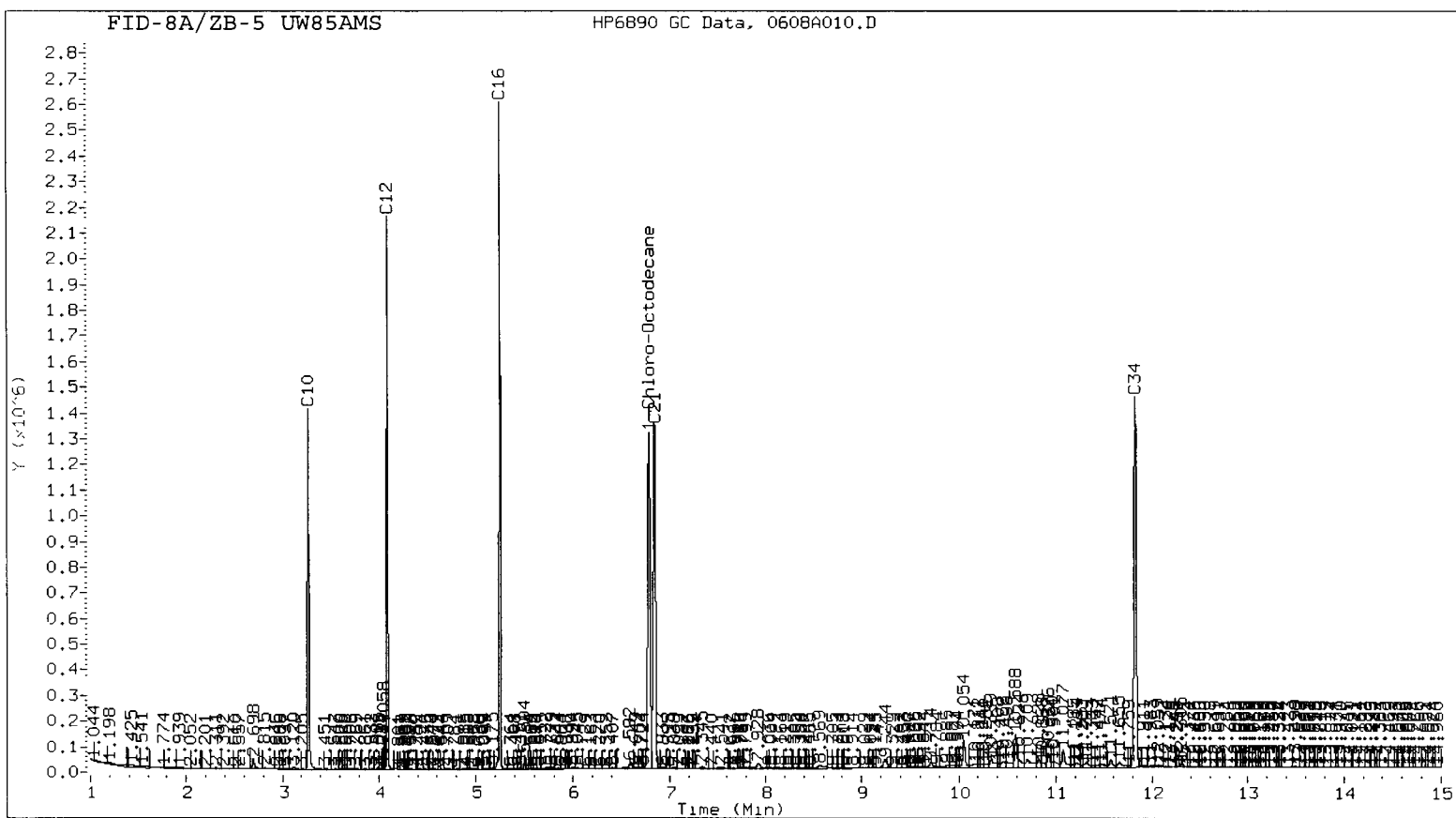
Data file: /chem2/fid8.i/20120608ALIPH.b/0608A010.D
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: UW85AMS
Client ID: MS001-SS-120515 MS
Injection: 08-JUN-2012 15:34
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 1707433 | 88 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1717014 | 95 | (3.382 - 4.196) |
| C12-C16 Aliph. | 2079041 | 122 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2641663 | 163 | (5.361 - 6.967) |
| C21-C34 Aliph. | 5259541 | 309 | (6.967 - 11.938) |

Surrogate Rec: 86.8%



MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A011.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A011.D
Lab Smp Id: UW85AMSD Client Smp ID: MS001-SS-120515 MSD
Inj Date : 08-JUN-2012 15:59
Operator : MH Inst ID: fid8.i
Smp Info : UW85AMSD
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|------------------------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | Compound Not Detected. | | | | | |
| 3 C10 | 3.269 | 3.282 | -0.013 | 1561041 | 82.2291 | 82.229 |
| 45 C12 | 4.088 | 4.096 | -0.008 | 1701071 | 94.3958 | 94.395 |
| 46 C16 | 5.253 | 5.261 | -0.008 | 1958711 | 115.300 | 115.300 |
| \$ 51 1-Chloro-Octodecane | 6.792 | 6.813 | -0.021 | 2216670 | 126.681 | 126.680 |
| 47 C21 | 6.849 | 6.867 | -0.018 | 2160003 | 133.181 | 133.180 |
| 48 C34 | 11.826 | 11.838 | -0.012 | 2364827 | 138.987 | 138.987 |

Date : 08-JUN-2012 15:59

Client ID: MS001-SS-120515 MSD

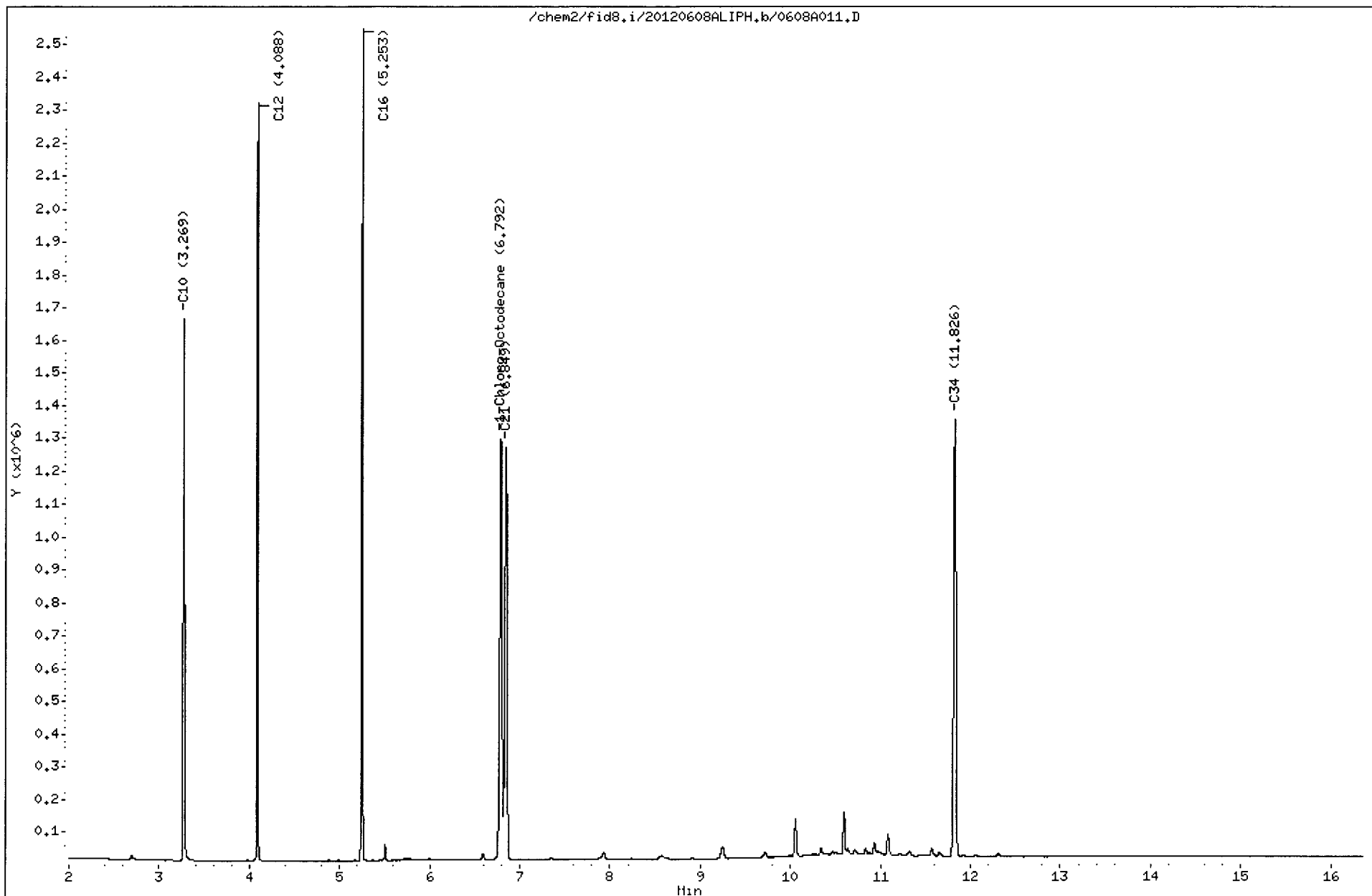
Sample Info: UW85AMSD

Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



UW85:00116

Analytical Resources Inc.
WA. EPH Aliphatics Report

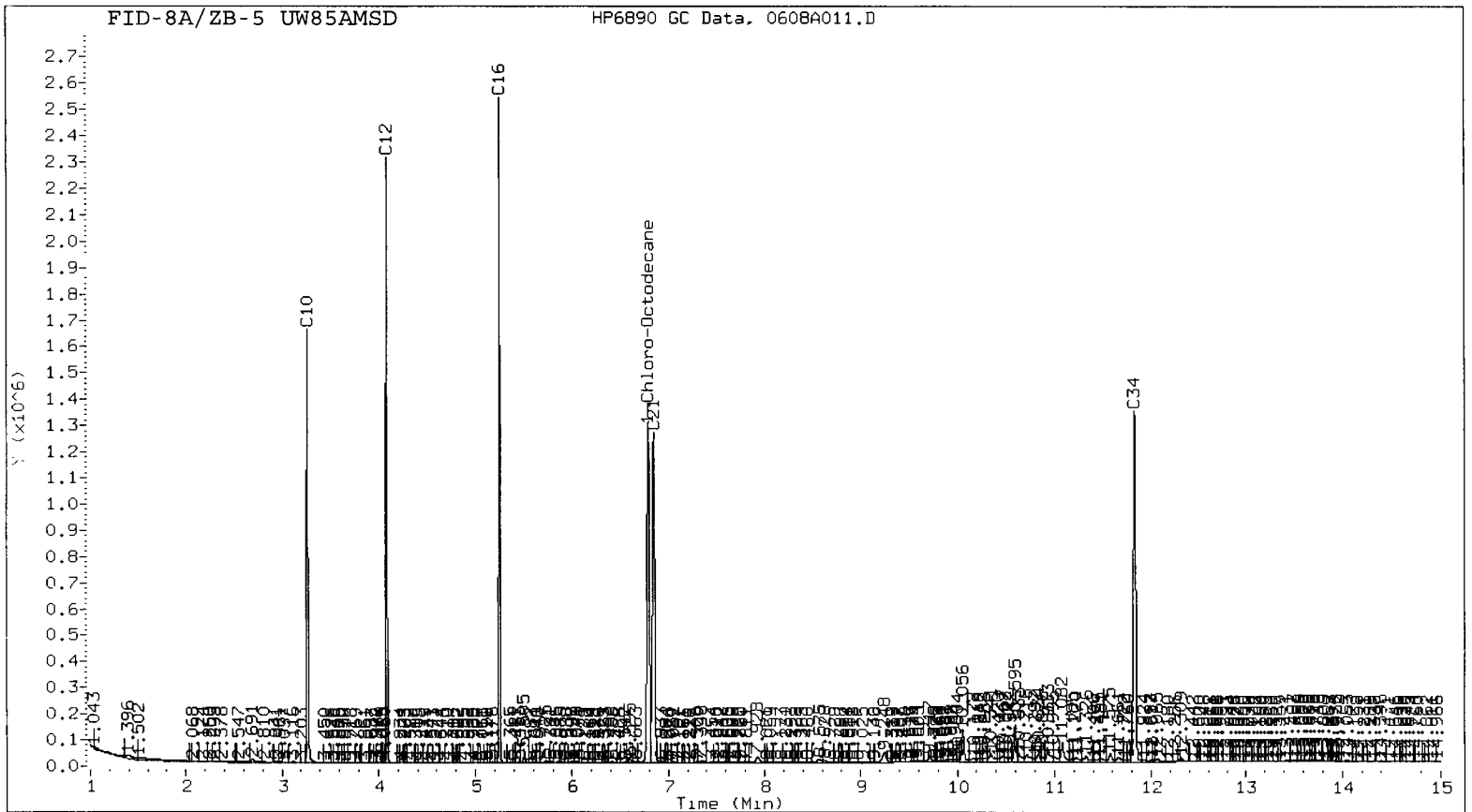
Data file: /chem2/fid8.i/20120608ALIPH.b/0608A011.D
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: UW85AMSD
Client ID: MS001-SS-120515 MSD
Injection: 08-JUN-2012 15:59
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 1978260 | 102 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1734856 | 96 | (3.382 - 4.196) |
| C12-C16 Aliph. | 1989099 | 117 | (4.196 - 5.361) |
| C16-C21 Aliph. | 2449777 | 151 | (5.361 - 6.967) |
| C21-C34 Aliph. | 5081480 | 299 | (6.967 - 11.938) |

Surrogate Rec: 84.5%



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A009.D
Lab Smp Id: UW85A Client Smp ID: MS001-SS-120515
Inj Date : 08-JUN-2012 15:09
Operator : MH Inst ID: fid8.i
Smp Info : UW85A
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | 1.123 | 1.141 | -0.018 | 19382 | 0.97301 | 0.973 (M) |
| 3 C10 | 3.271 | 3.282 | -0.011 | 7973 | 0.41999 | 0.419 |
| 45 C12 | 4.089 | 4.096 | -0.007 | 7164 | 0.39760 | 0.397 |
| 46 C16 | 5.251 | 5.261 | -0.010 | 6205 | 0.36529 | 0.365 |
| \$ 51 1-Chloro-Octadecane | 6.791 | 6.813 | -0.022 | 2190414 | 125.180 | 125.180 |
| 47 C21 | 6.839 | 6.867 | -0.028 | 27368 | 1.68747 | 1.687 |
| 48 C34 | 11.814 | 11.838 | -0.024 | 40180 | 2.36151 | 2.361 |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem2/fid8.1/20120608ALIPH,b/0608A009.D

Page 2

Date : 08-JUN-2012 15:09

Client ID: MS001-SS-120515

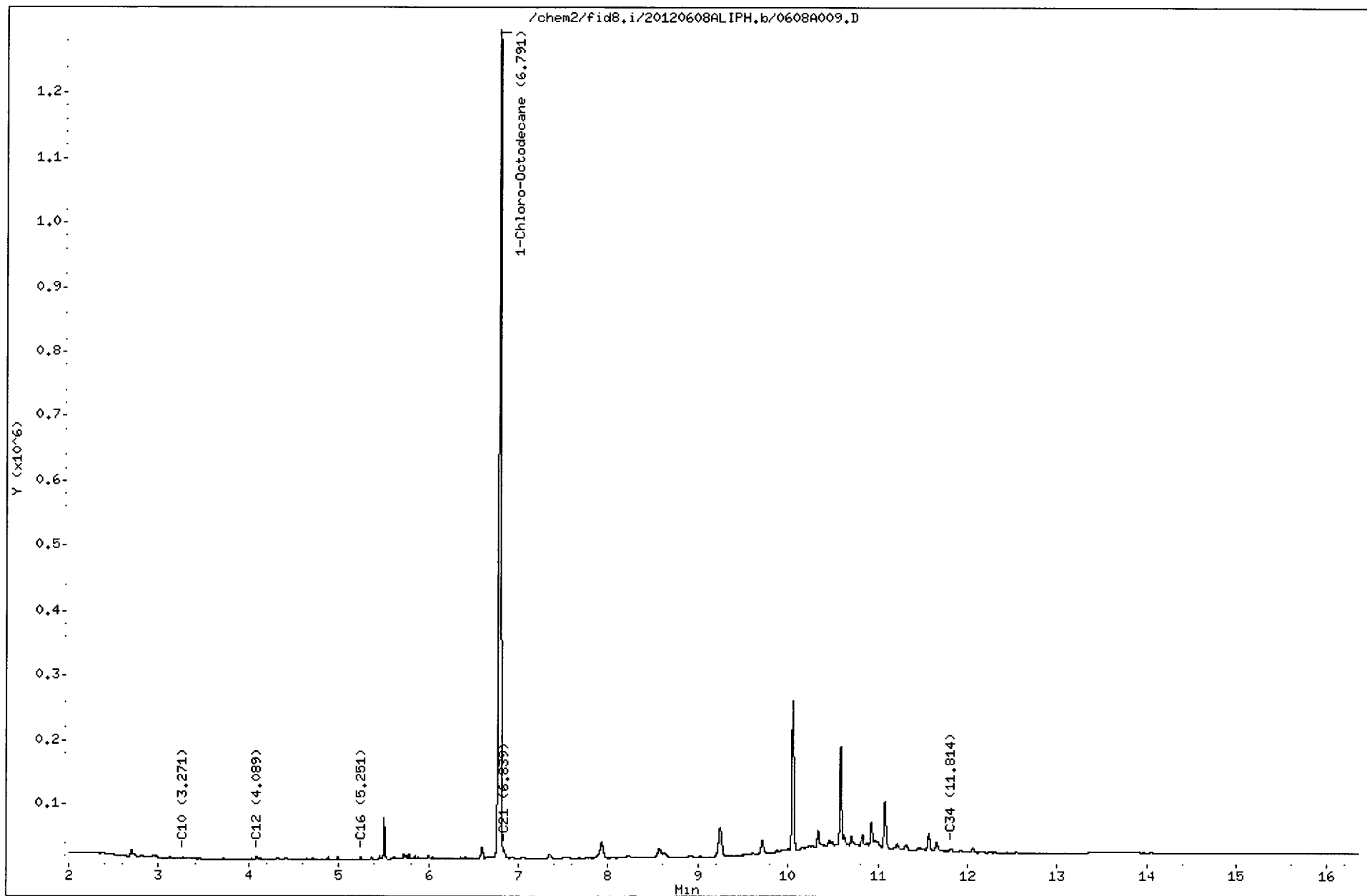
Sample Info: UW85A

Instrument: fid8.1

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



UW85:00119

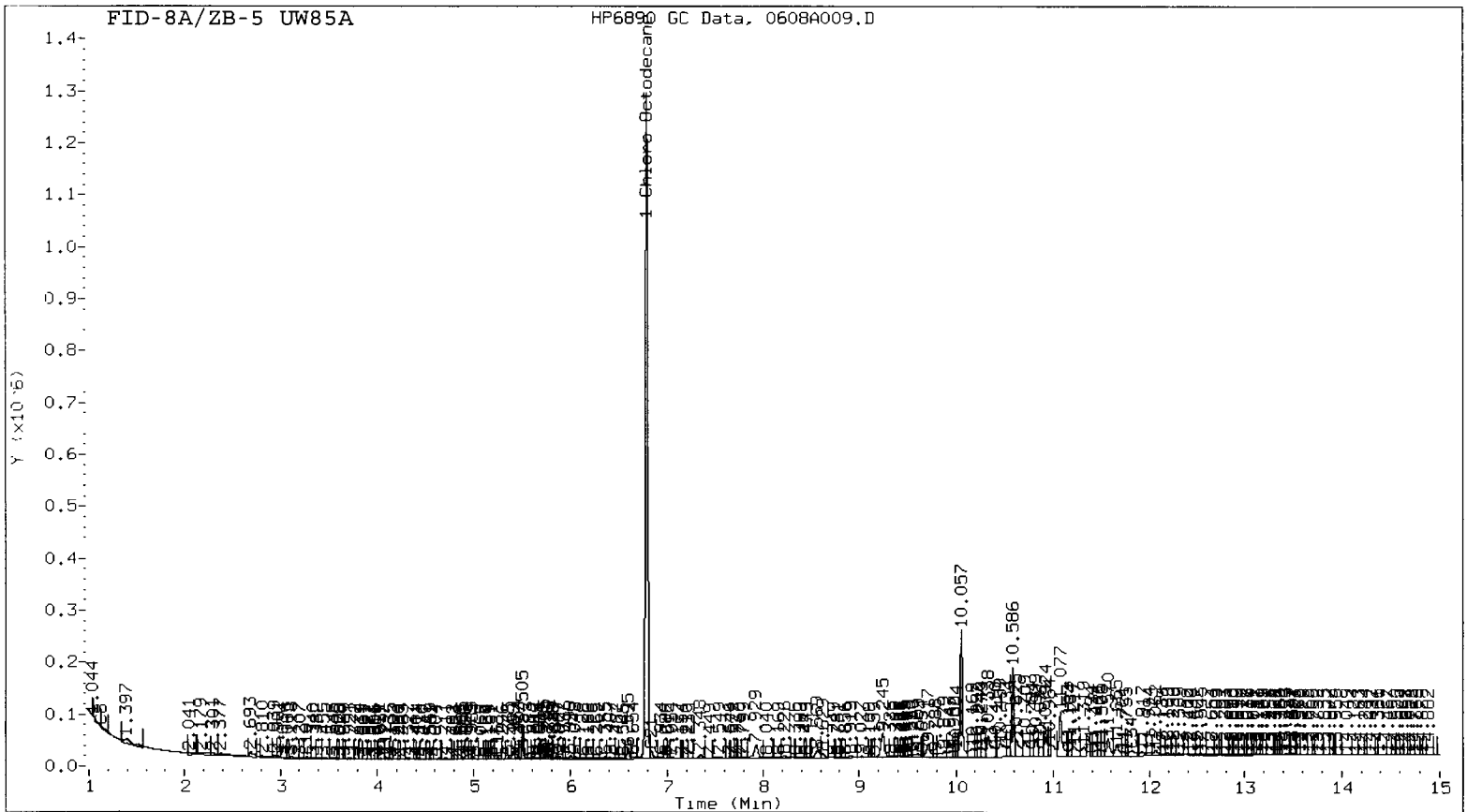
Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120608ALIPH.b/0608A009.D ARI ID: UW85A
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m Client ID: MS001-SS-120515
Instrument: fid8.i Injection: 08-JUN-2012 15:09
Operator: MH Matrix: SOIL
Macro: ALIPH120912FID8 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 269186 | 14 | (1.041 - 3.382) |
| C10-C12 Aliph. | 47569 | 3 | (3.382 - 4.196) |
| C12-C16 Aliph. | 75860 | 4 | (4.196 - 5.361) |
| C16-C21 Aliph. | 301512 | 19 | (5.361 - 6.967) |
| C21-C34 Aliph. | 3047133 | 179 | (6.967 - 11.938) |

Surrogate Rec: 83.5%



MANUAL INTEGRATION - Baseline Correction

Analyst: MH Date: 6/11/12

MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A012.D
Report Date: 11-Jun-2012 10:20

Page 1

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A012.D
Lab Smp Id: UW85B Client Smp ID: MS002-SS-120515
Inj Date : 08-JUN-2012 16:24
Operator : MH Inst ID: fid8.i
Smp Info : UW85B
Misc Info : 12-10067
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|------------------------|--------|--------|----|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | Compound Not Detected. | | | | | | |
| 3 C10 | 3.270 | 3.282 | -0.012 | | 6771 | 0.35668 | 0.356 (M) |
| 45 C12 | 4.088 | 4.096 | -0.008 | | 3009 | 0.16699 | 0.166 (M) |
| 46 C16 | 5.250 | 5.261 | -0.011 | | 8818 | 0.51913 | 0.519 (M) |
| \$ 51 1-Chloro-Octadecane | 6.790 | 6.813 | -0.023 | | 2216034 | 126.644 | 126.644 (M) |
| 47 C21 | 6.878 | 6.867 | 0.011 | | 11062 | 0.68211 | 0.682 (M) |
| 48 C34 | 11.811 | 11.838 | -0.027 | | 58710 | 3.45057 | 3.450 (M) |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem2/fid8.1/20120608ALIPH.b/0608A012.D

Page 2

Date : 08-JUN-2012 16:24

Client ID: MS002-SS-120515

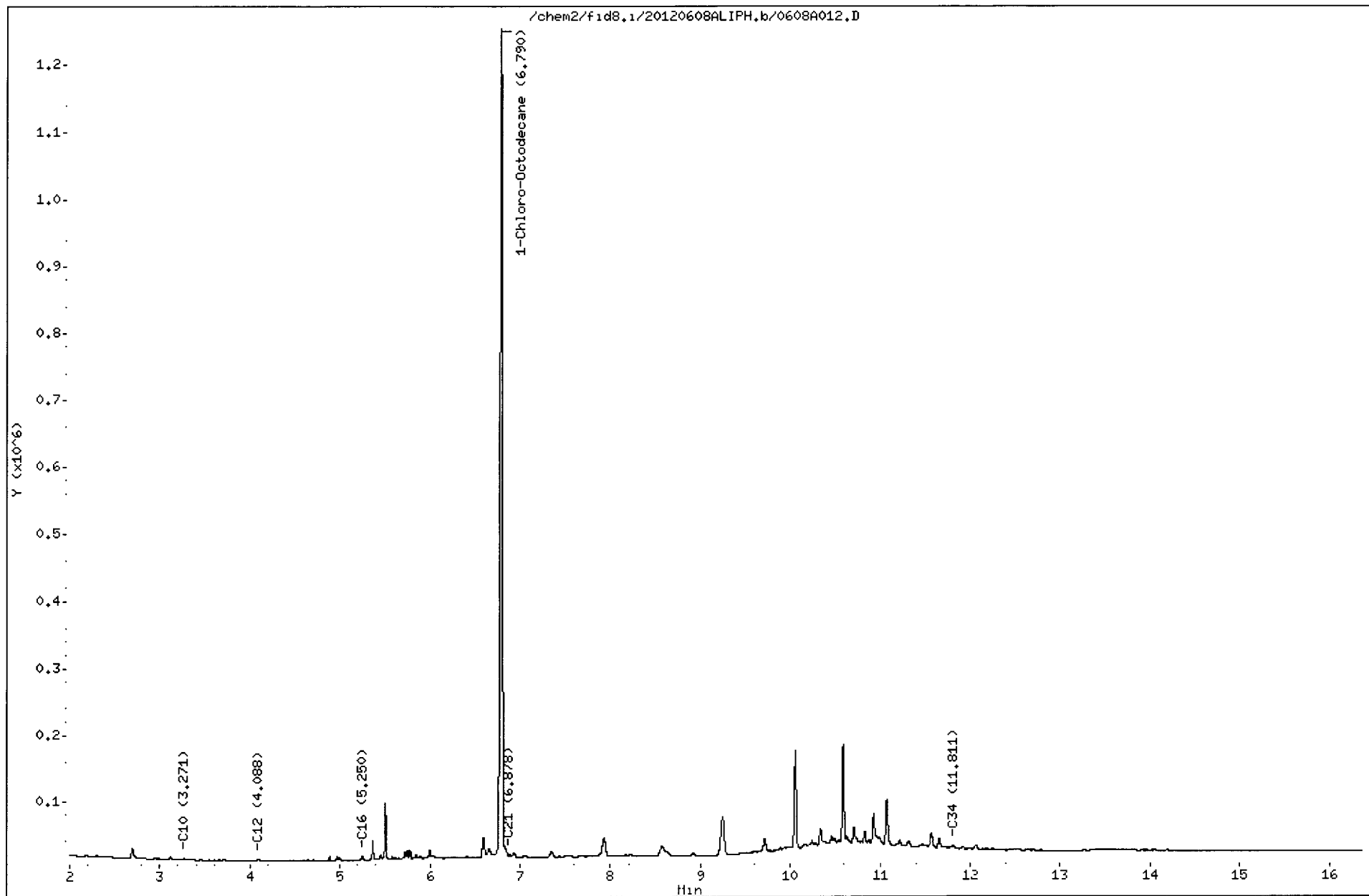
Sample Info: UW85B

Instrument: fid8.1

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



UW85: 00122

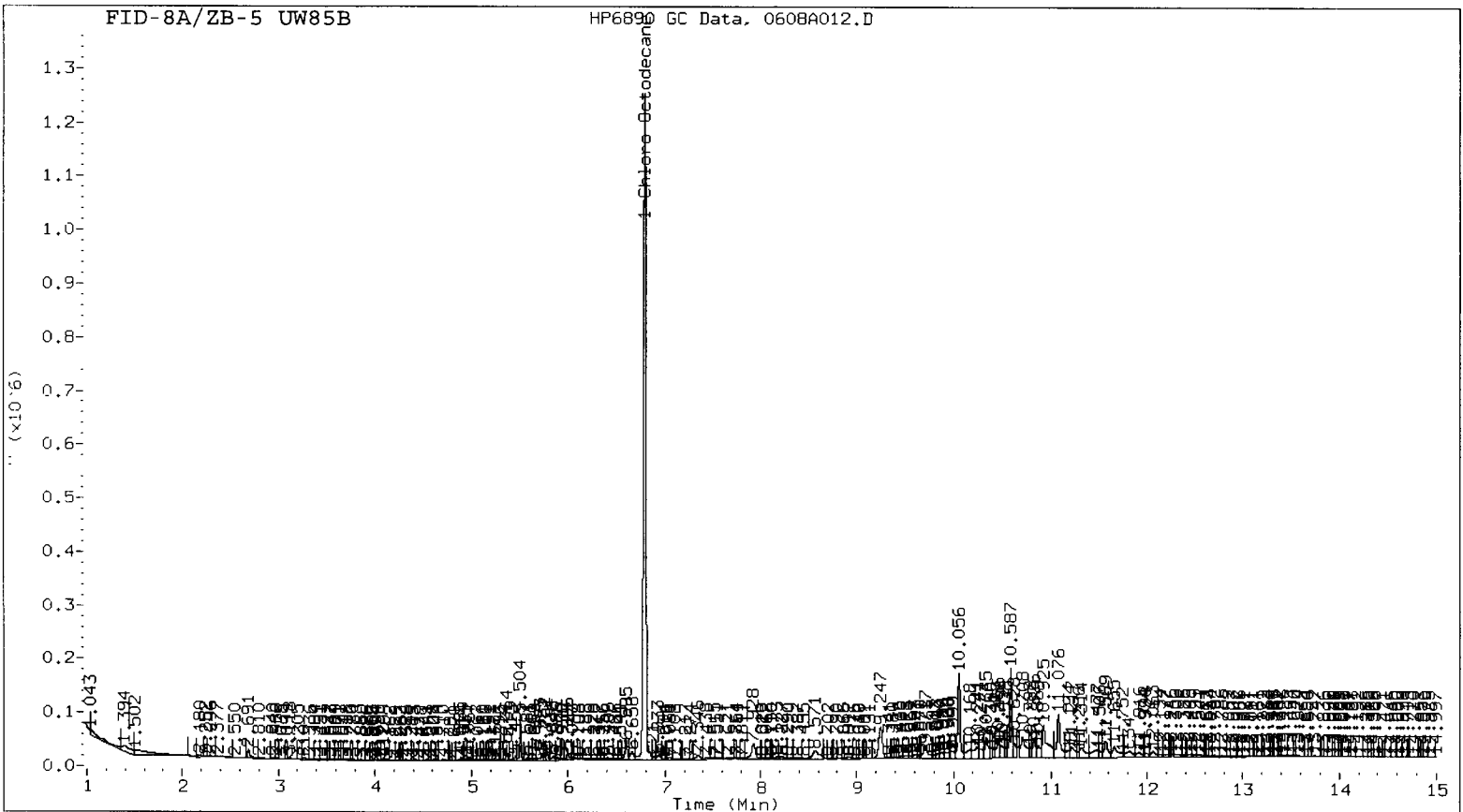
Analytical Resources Inc.
 WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120608ALIPH.b/0608A012.D ARI ID: UW85B
 Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m Client ID: MS002-SS-120515
 Instrument: fid8.i Injection: 08-JUN-2012 16:24
 Operator: MH Matrix: SOIL
 Macro: ALIPH120912FID8 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 382172 | 20 | (1.041 - 3.382) |
| C10-C12 Aliph. | 24706 | 1 | (3.382 - 4.196) |
| C12-C16 Aliph. | 72254 | 4 | (4.196 - 5.361) |
| C16-C21 Aliph. | 480093 | 30 | (5.361 - 6.967) |
| C21-C34 Aliph. | 3306230 | 194 | (6.967 - 11.938) |

Surrogate Rec: 84.4%



MANUAL INTEGRATION - Baseline Correction

Analyst: Date: 6/11/12

MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A013.D
Lab Smp Id: UW85C Client Smp ID: MS003-SS-120515
Inj Date : 08-JUN-2012 16:49
Operator : MH Inst ID: fid8.i
Smp Info : UW85C
Misc Info : 12-10068
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------------------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | Compound Not Detected | | | | | |
| 3 C10 | 3.270 | 3.282 | -0.012 | 2298 | 0.12107 | 0.121 |
| 45 C12 | 4.089 | 4.096 | -0.007 | 4958 | 0.27513 | 0.275 |
| 46 C16 | 5.250 | 5.261 | -0.011 | 4100 | 0.24138 | 0.241 |
| \$ 51 1-Chloro-Octodecane | 6.792 | 6.813 | -0.021 | 2290945 | 130.925 | 130.925 |
| 47 C21 | 6.882 | 6.867 | 0.015 | 20386 | 1.25700 | 1.256 |
| 48 C34 | 11.807 | 11.838 | -0.031 | 30233 | 1.77690 | 1.776 |

Data File: /chem2/fid8.i/20120608ALIPH,b/0608A013.D

Page 2

Date : 08-JUN-2012 16:49

Client ID: MS003-SS-120515

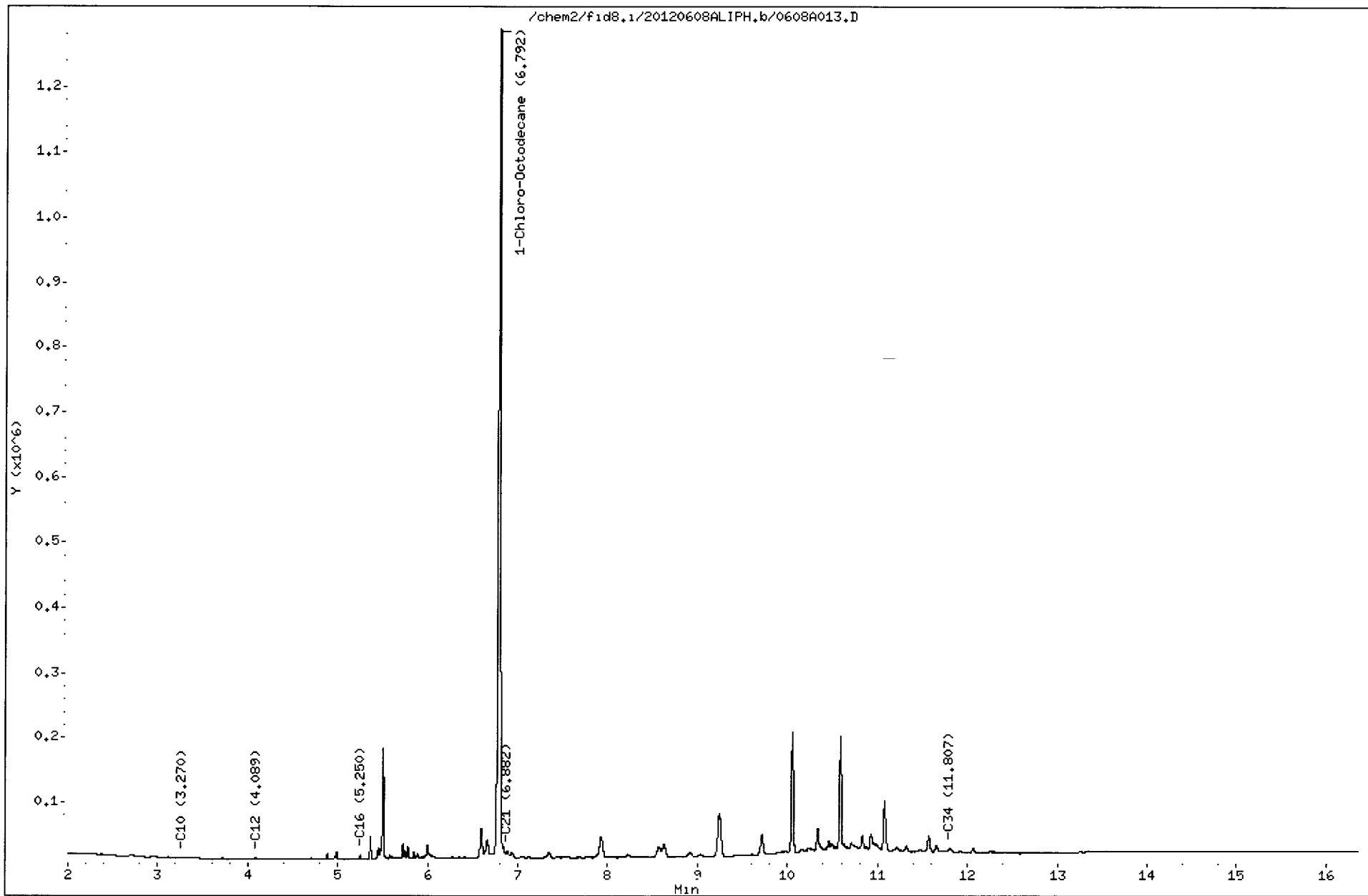
Sample Info: UM85C

Instrument: fid8.1

Operator: MH

Column phase: ZB-5

Column diameter: 0.32



UM85: 00125

Analytical Resources Inc.
WA. EPH Aliphatics Report

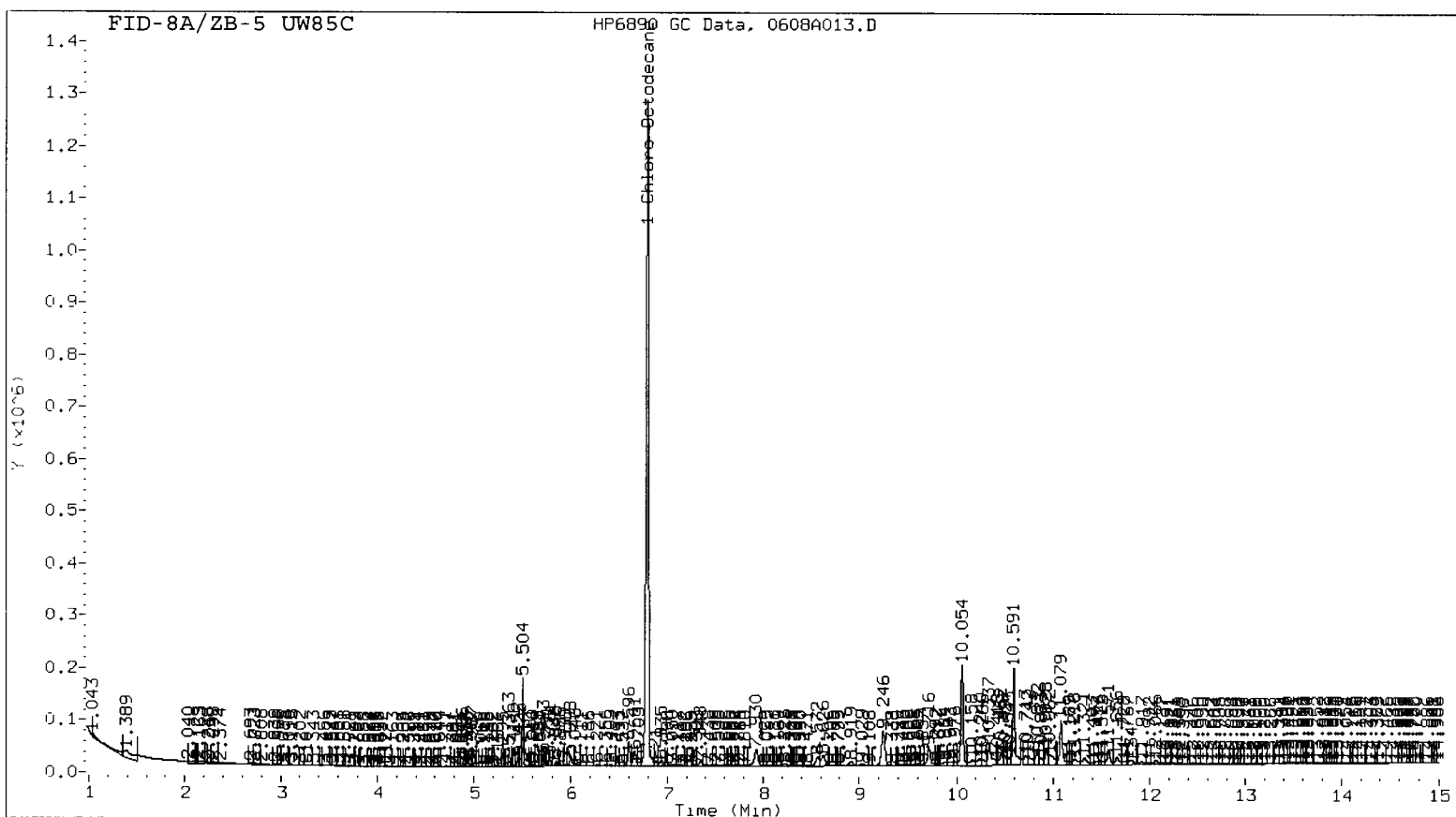
Data file: /chem2/fid8.i/20120608ALIPH.b/0608A013.D
Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Instrument: fid8.i
Operator: MH
Macro: ALIPH120912FID8

ARI ID: UW85C
Client ID: MS003-SS-120515
Injection: 08-JUN-2012 16:49
Matrix: SOIL
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 315821 | 16 | (1.041 - 3.382) |
| C10-C12 Aliph. | 34091 | 2 | (3.382 - 4.196) |
| C12-C16 Aliph. | 38319 | 2 | (4.196 - 5.361) |
| C16-C21 Aliph. | 581565 | 36 | (5.361 - 6.967) |
| C21-C34 Aliph. | 2552341 | 150 | (6.967 - 11.938) |

Surrogate Rec: 87.3%



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A014.D
Lab Smp Id: UW85D Client Smp ID: MS006-SS-120515
Inj Date : 08-JUN-2012 17:14
Operator : MH Inst ID: fid8.i
Smp Info : UW85D
Misc Info : 12-10069
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 13:46 Cal File: 0518A013.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: waliph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|------------------------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 C8 | Compound Not Detected. | | | | | |
| 3 C10 | 3.273 | 3.282 | -0.009 | 3580 | 0.18859 | 0.188 |
| 45 C12 | 4.090 | 4.096 | -0.006 | 1224 | 0.06797 | 0.067 |
| 46 C16 | 5.250 | 5.261 | -0.011 | 938 | 0.05523 | 0.055 |
| \$ 51 1-Chloro-Octadecane | 6.793 | 6.813 | -0.020 | 2179799 | 124.573 | 124.573 |
| 47 C21 | Compound Not Detected. | | | | | |
| 48 C34 | 11.815 | 11.838 | -0.023 | 16340 | 0.96035 | 0.960 |

Date : 08-JUN-2012 17:14

Client ID: MS006-SS-120515

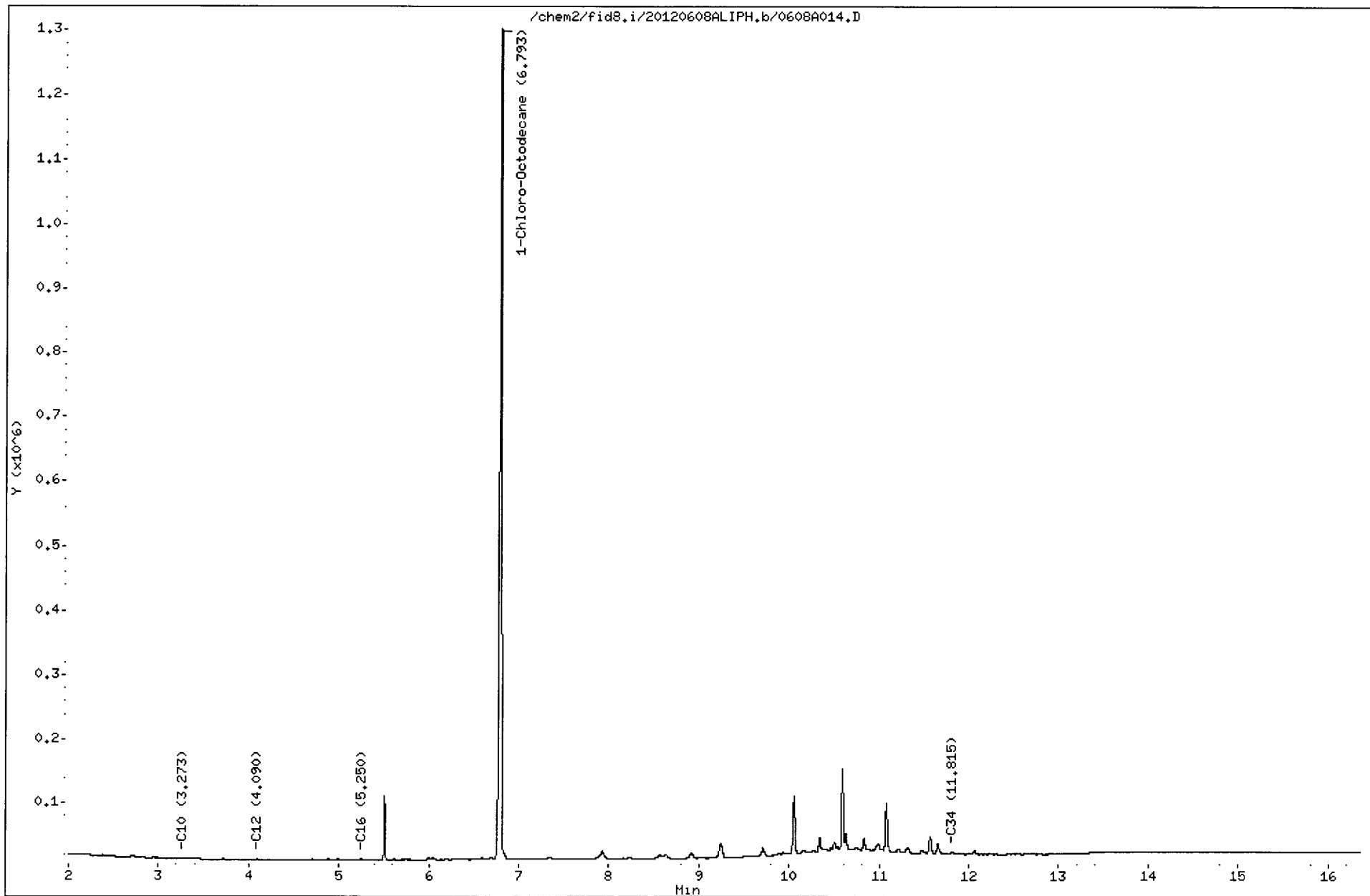
Sample Info: UW85D

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



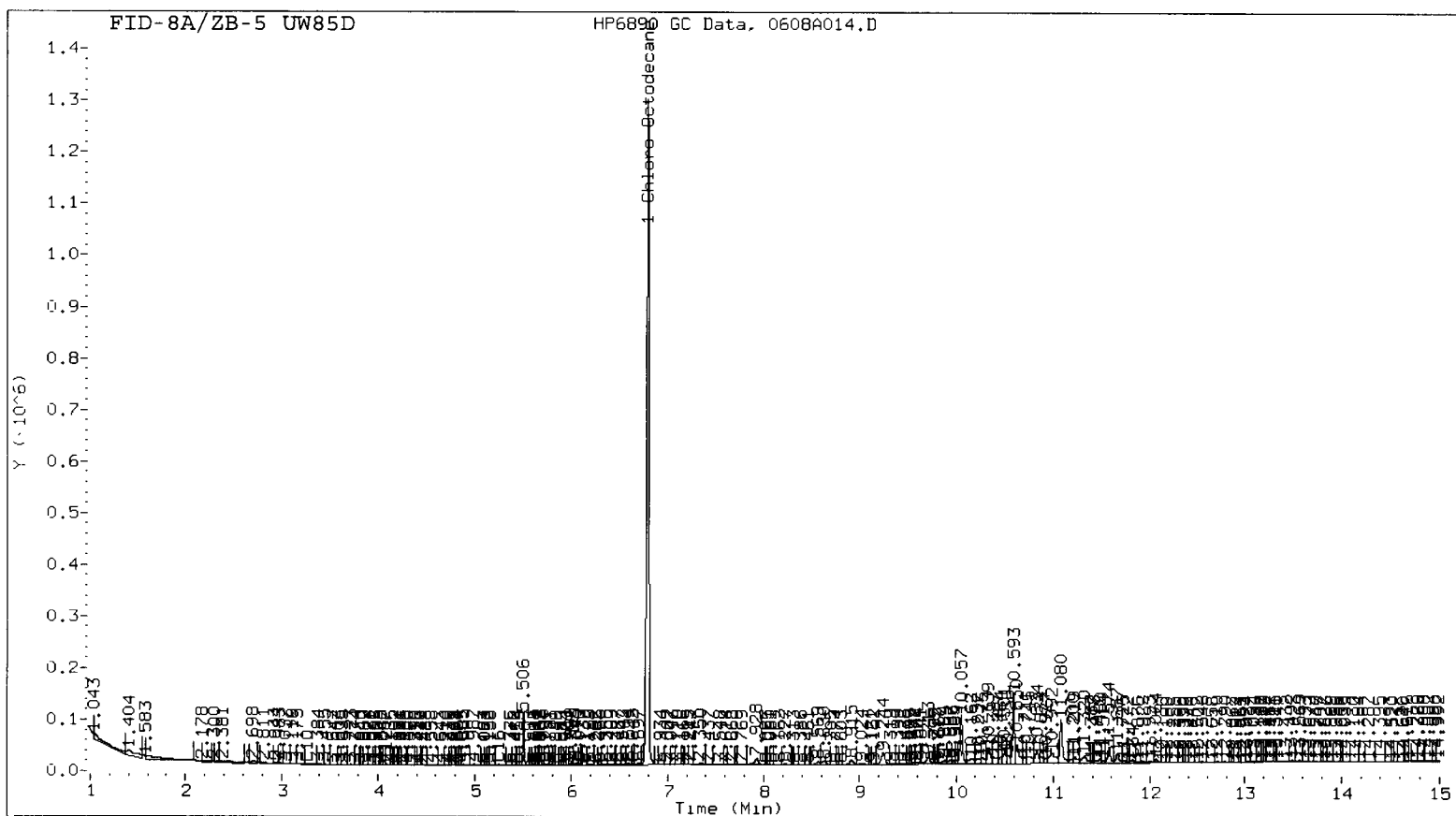
Analytical Resources Inc.
 WA. EPH Aliphatics Report

Data file: /chem2/fid8.i/20120608ALIPH.b/0608A014.D ARI ID: UW85D
 Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m Client ID: MS006-SS-120515
 Instrument: fid8.i Injection: 08-JUN-2012 17:14
 Operator: MH Matrix: SOIL
 Macro: ALIPH120912FID8 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 385807 | 20 | (1.041 - 3.382) |
| C10-C12 Aliph. | 8302 | 0 | (3.382 - 4.196) |
| C12-C16 Aliph. | 34360 | 2 | (4.196 - 5.361) |
| C16-C21 Aliph. | 141031 | 9 | (5.361 - 6.967) |
| C21-C34 Aliph. | 1946995 | 114 | (6.967 - 11.938) |

Surrogate Rec: 83.0%



MH
6/11/12

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A015.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608ALIPH.b/0608A015.D
Lab Smp Id: ALIPHATIC #2
Inj Date : 08-JUN-2012 17:40
Operator : MH
Smp Info : ALIPHATIC #2
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
Meth Date : 25-May-2012 10:32 monicah
Cal Date : 18-MAY-2012 13:46
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A013.D
Compound Sublist: waliph.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 C8 | 1.109 | 1.141 | -0.032 | 1801368 | 90.4305 | 90.430 (M) |
| 3 C10 | 3.273 | 3.282 | -0.009 | 1790761 | 94.3297 | 94.329 |
| 45 C12 | 4.089 | 4.096 | -0.007 | 1668211 | 92.5724 | 92.572 |
| 46 C16 | 5.251 | 5.261 | -0.010 | 1519155 | 89.4257 | 89.425 |
| \$ 51 1-Chloro-Octodecane | 6.789 | 6.813 | -0.024 | 1911623 | 109.247 | 109.247 |
| 47 C21 | 6.844 | 6.867 | -0.023 | 1774208 | 109.394 | 109.393 |
| 48 C34 | 11.821 | 11.838 | -0.017 | 1706656 | 100.305 | 100.304 |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem2/fid8.i/20120608ALIPH.b/0608A015.D

Page 2

Date : 08-JUN-2012 17:40

Client ID:

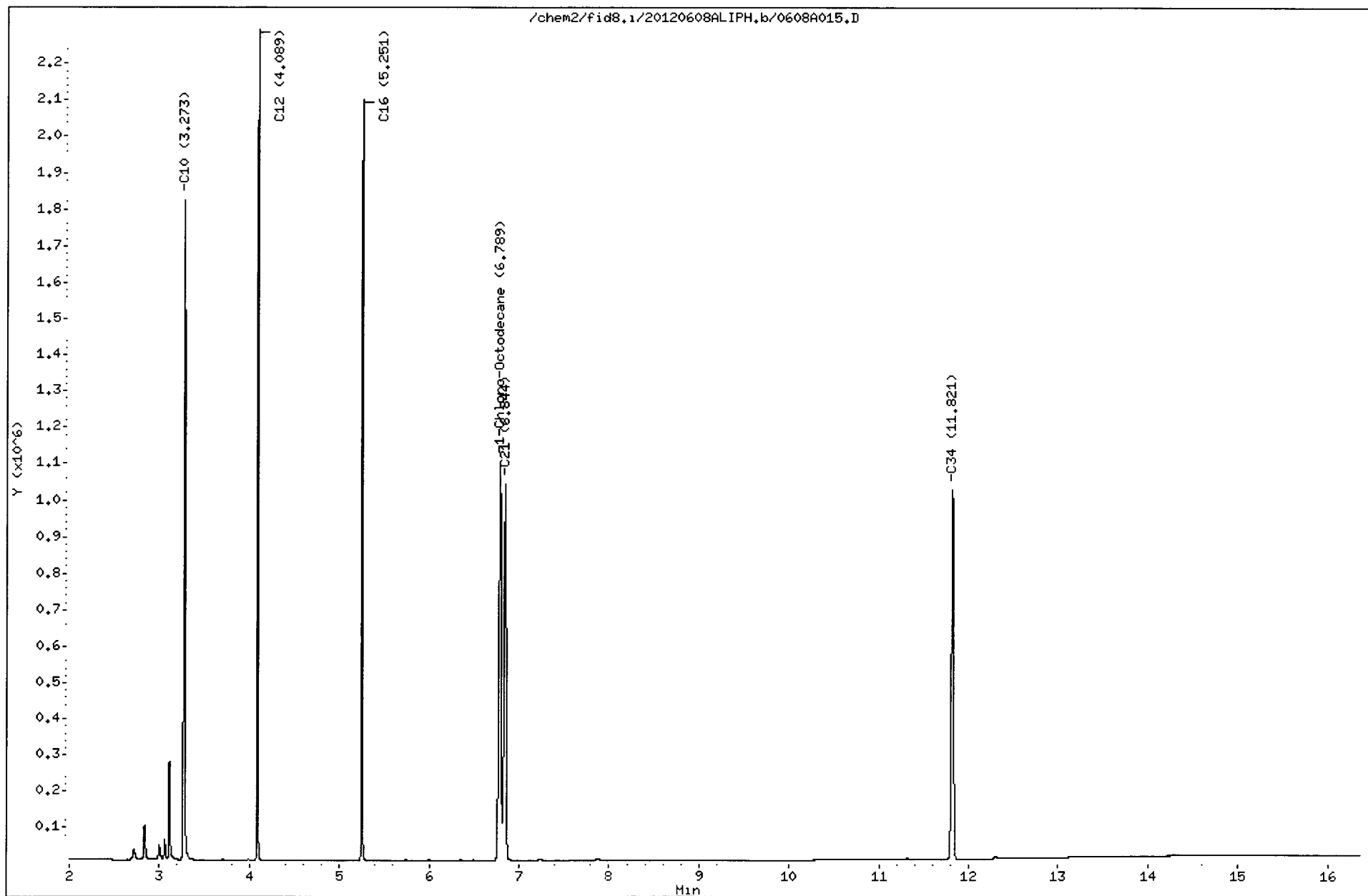
Instrument: fid8.1

Sample Info: ALIPHATIC #2

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



UW85:00131

Analytical Resources Inc.
 WA. EPH Aliphatics Report

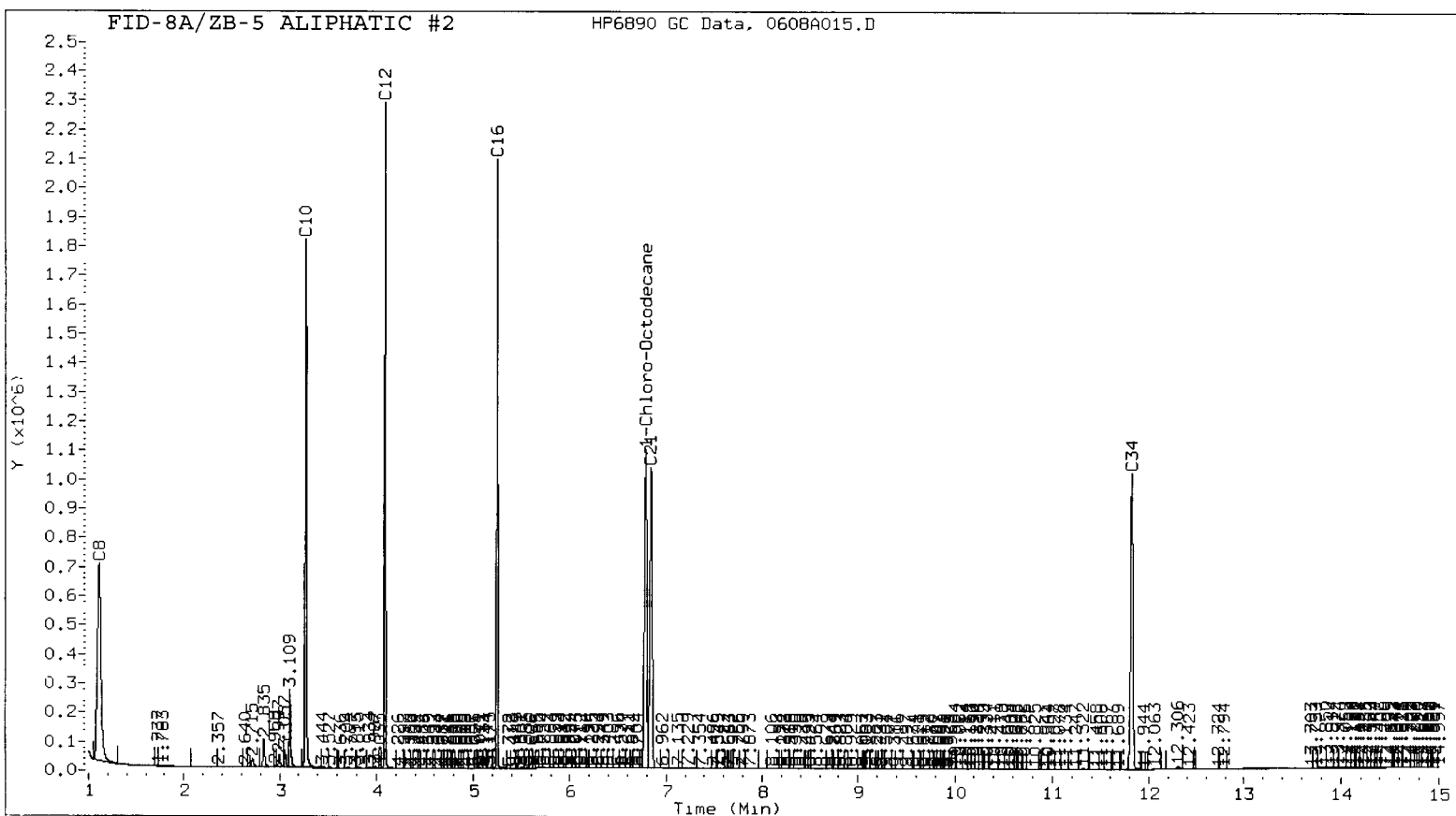
Data file: /chem2/fid8.i/20120608ALIPH.b/0608A015.D
 Method: /chem2/fid8.i/20120608ALIPH.b/EPHALiph.m
 Instrument: fid8.i
 Operator: MH
 Macro: ALIPH120912FID8

ARI ID: ALIPHATIC #2
 Client ID:
 Injection: 08-JUN-2012 17:40
 Matrix: SOIL
 Dilution Factor: 1

EPH-ALIPHATIC RESULTS

| Quant Range | Area | Conc | Time Range |
|----------------|---------|------|------------------|
| C8-C10 Aliph. | 4256414 | 219 | (1.041 - 3.382) |
| C10-C12 Aliph. | 1680755 | 93 | (3.382 - 4.196) |
| C12-C16 Aliph. | 1524004 | 90 | (4.196 - 5.361) |
| C16-C21 Aliph. | 1795635 | 111 | (5.361 - 6.967) |
| C21-C34 Aliph. | 1736617 | 102 | (6.967 - 11.938) |

Surrogate Rec: 72.8%



MANUAL INTEGRATION - Baseline Correction

Analyst: _____ Date: _____

MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A016.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A016.D
Lab Smp Id: AROM IB
Inj Date : 08-JUN-2012 18:05
Operator : MH
Smp Info : AROM IB
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHARom.m
Meth Date : 25-May-2012 10:35 monicah
Cal Date : 18-MAY-2012 21:13
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50

Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A031.D
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | CONCENTRATIONS | |
|------------------------|--------|--------|--------|-----|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | | | | | | | |
| Compound Not Detected. | | | | | | | |
| 3 1,2,3-Trimetben | 3.357 | 3.387 | -0 | 030 | 48 | 0.00252 | 0.002 |
| 4 Naphthalene | 4.059 | 4.063 | -0 | 004 | 92 | 0.00472 | 0.004 |
| 7 Acenaphthene | 4.980 | 5.003 | -0.023 | | 311 | 0.01646 | 0.016 |
| \$ 11 o-Terph Surr | 6.084 | 6.084 | 0.000 | | 3031517 | 147.029 | 147.029 |
| 75 1-chlorooctodecane | 6.786 | 6.782 | 0.004 | | 1229 | | |
| 13 Pyrene | 7.018 | 7.023 | -0.005 | | 858 | 0.03839 | 0.038 |
| 21 Benzo-ghi-per | 11.533 | 11.516 | 0.017 | | 50 | 0.00203 | 0.002 |

Date : 08-JUN-2012 18:05

Client ID:

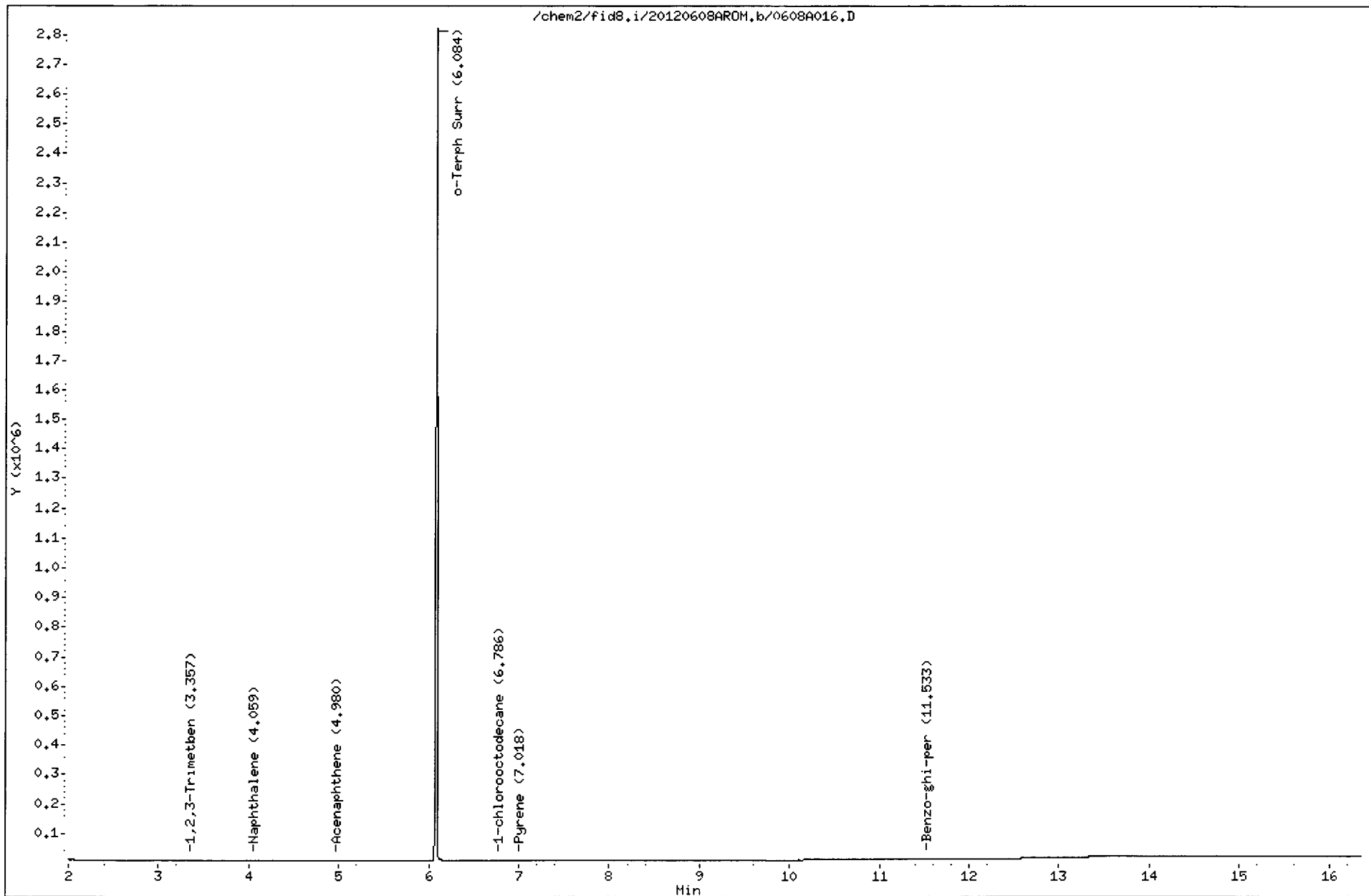
Instrument: fid8.1

Sample Info: AROM IB

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



UV85: 00134

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A016.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

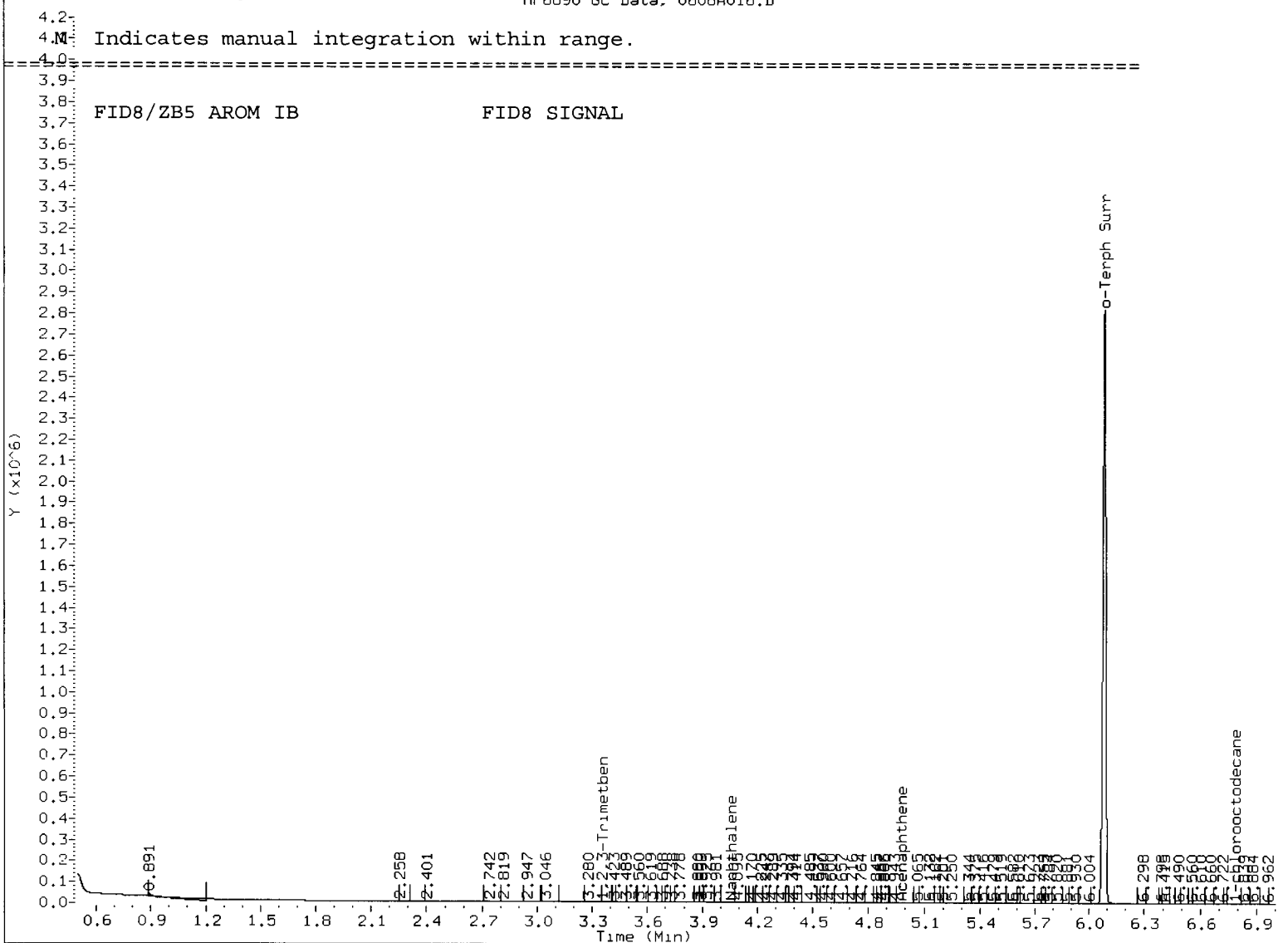
ARI ID: AROM IB
 Client ID:
 Injection: 08-JUN-2012 18:05
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|-------|------|------------------|
| C8-C10 Arom. | 19994 | 71568 | 4 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 755 | 0 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1422 | 0 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 10513 | 0 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 6781 | 0 | (7.123 - 11.616) |

Surrogate Rec: 98.0%

HP6890 GC Data, 0608A016.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A017.D
Lab Smp Id: AROMATIC #1
Inj Date : 08-JUN-2012 18:30
Operator : MH
Smp Info : AROMATIC #1
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah
Cal Date : 18-MAY-2012 21:13
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A031.D
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | 0.753 | 0.756 | -0.003 | 2015151 | 96.1140 | 96.114 |
| 3 1,2,3-Trimetben | 3.382 | 3.387 | -0.005 | 1842282 | 96.8511 | 96.851 |
| 4 Naphthalene | 4.058 | 4.063 | -0.005 | 1888526 | 96.9876 | 96.987 |
| 7 Acenaphthene | 4.999 | 5.003 | -0.004 | 1823678 | 96.5376 | 96.537 |
| \$ 11 o-Terph Surr | 6.079 | 6.084 | -0.005 | 2009105 | 97.4419 | 97.441 |
| 75 1-chlorooctodecane | 6.783 | 6.782 | 0.001 | 1588 | | |
| 13 Pyrene | 7.014 | 7.023 | -0.009 | 2295519 | 102.720 | 102.719 |
| 21 Benzo-ghi-per | 11.510 | 11.516 | -0.006 | 2151806 | 87.4446 | 87.444 |

Date : 08-JUN-2012 18:30

Client ID:

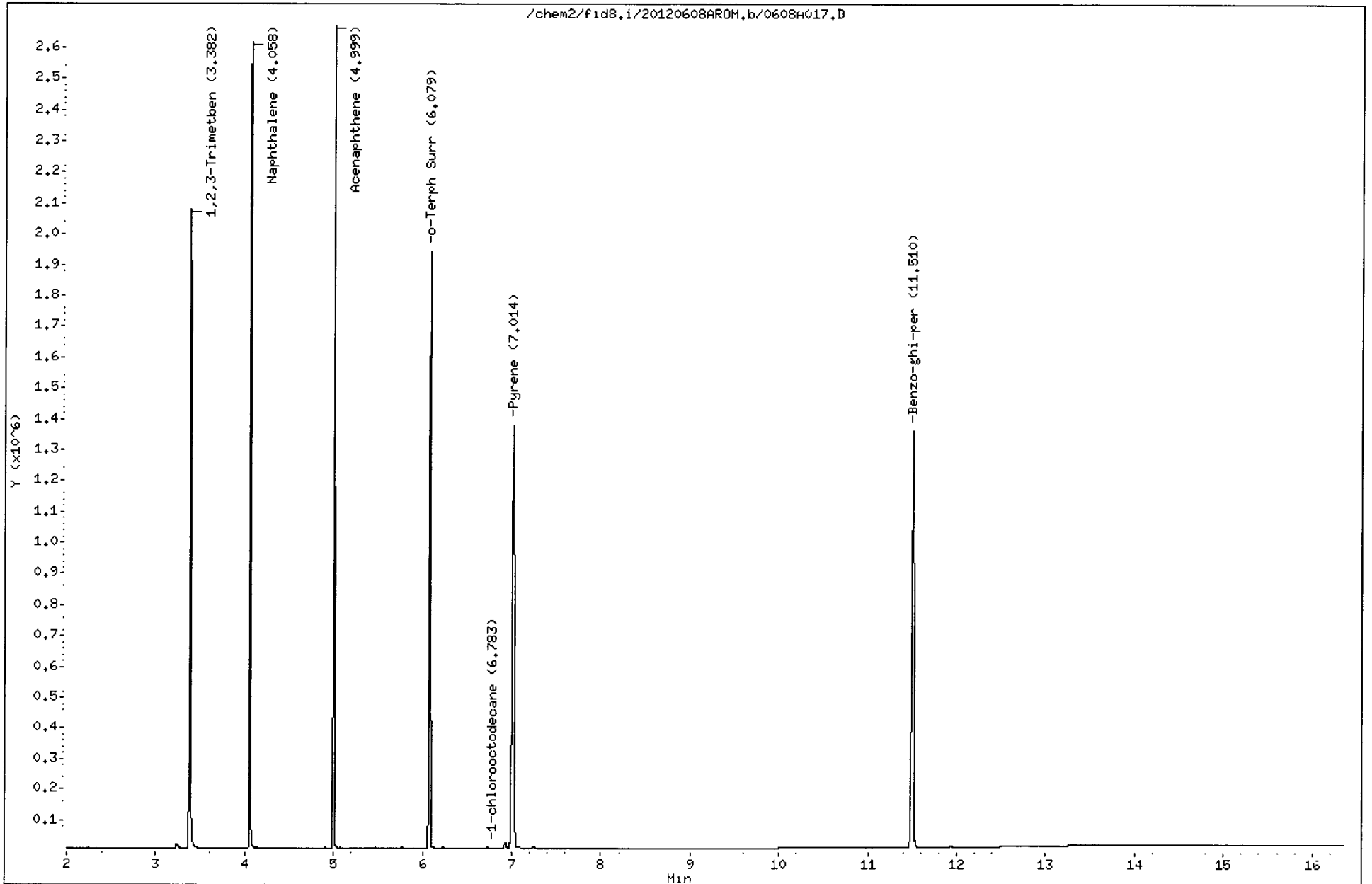
Instrument: fid8.1

Sample Info: AROMATIC #1

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



UWS: 00137

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A017.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

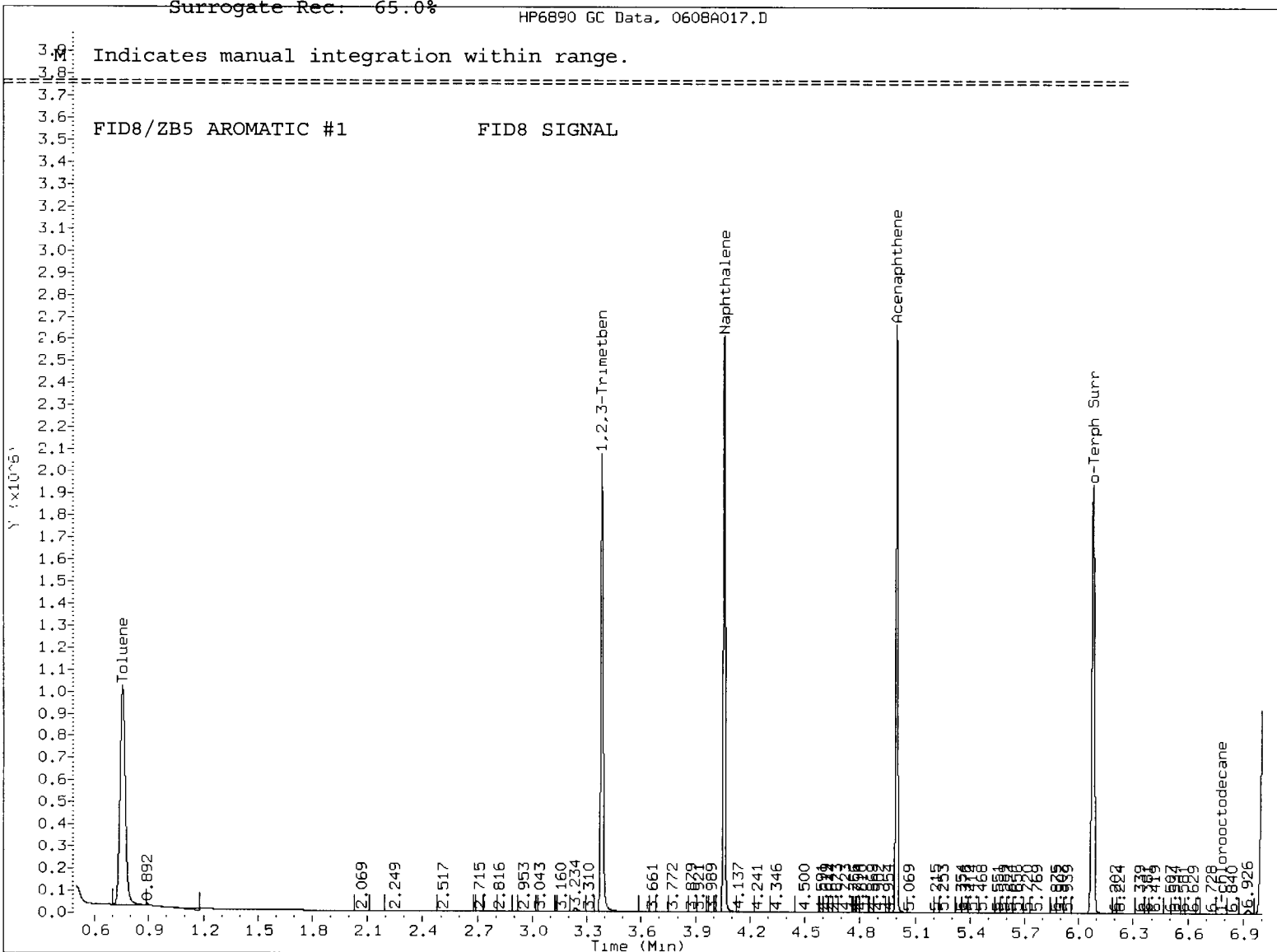
ARI ID: AROMATIC #1
 Client ID:
 Injection: 08-JUN-2012 18:30
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 3935024 | 197 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 1896947 | 97 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1834604 | 97 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 2347399 | 105 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 2167219 | 88 | (7.123 - 11.616) |

Surrogate Rec: 65.0%

HP6890 GC Data, 0608A017.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A018.D
Lab Smp Id: UW94MBS1 Client Smp ID: UW94MBS1
Inj Date : 08-JUN-2012 18:55
Operator : MH Inst ID: fid8.i
Smp Info : UW94MBS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | 0.785 | 0.756 | 0.029 | 35007 | 1.66968 | 1.669 |
| 3 1,2,3-Trimetben | 3.410 | 3.387 | 0.023 | 462 | 0.02429 | 0.024 |
| 4 Naphthalene | 4.062 | 4.063 | -0.001 | 2068 | 0.10620 | 0.106 |
| 7 Acenaphthene | 5.000 | 5.003 | -0.003 | 2110 | 0.11169 | 0.111 |
| \$ 11 o-Terph Surr | 6.084 | 6.084 | 0.000 | 2333649 | 113.182 | 113.182 |
| 75 1-chlorooctodecane | 6.787 | 6.782 | 0.005 | 26025 | | |
| 13 Pyrene | 7.017 | 7.023 | -0.006 | 1427 | 0.06386 | 0.063 |
| 21 Benzo-ghi-per | 11.511 | 11.516 | -0.005 | 329 | 0.01337 | 0.013 |

Date : 08-JUN-2012 18:55

Client ID: UW94MBS1

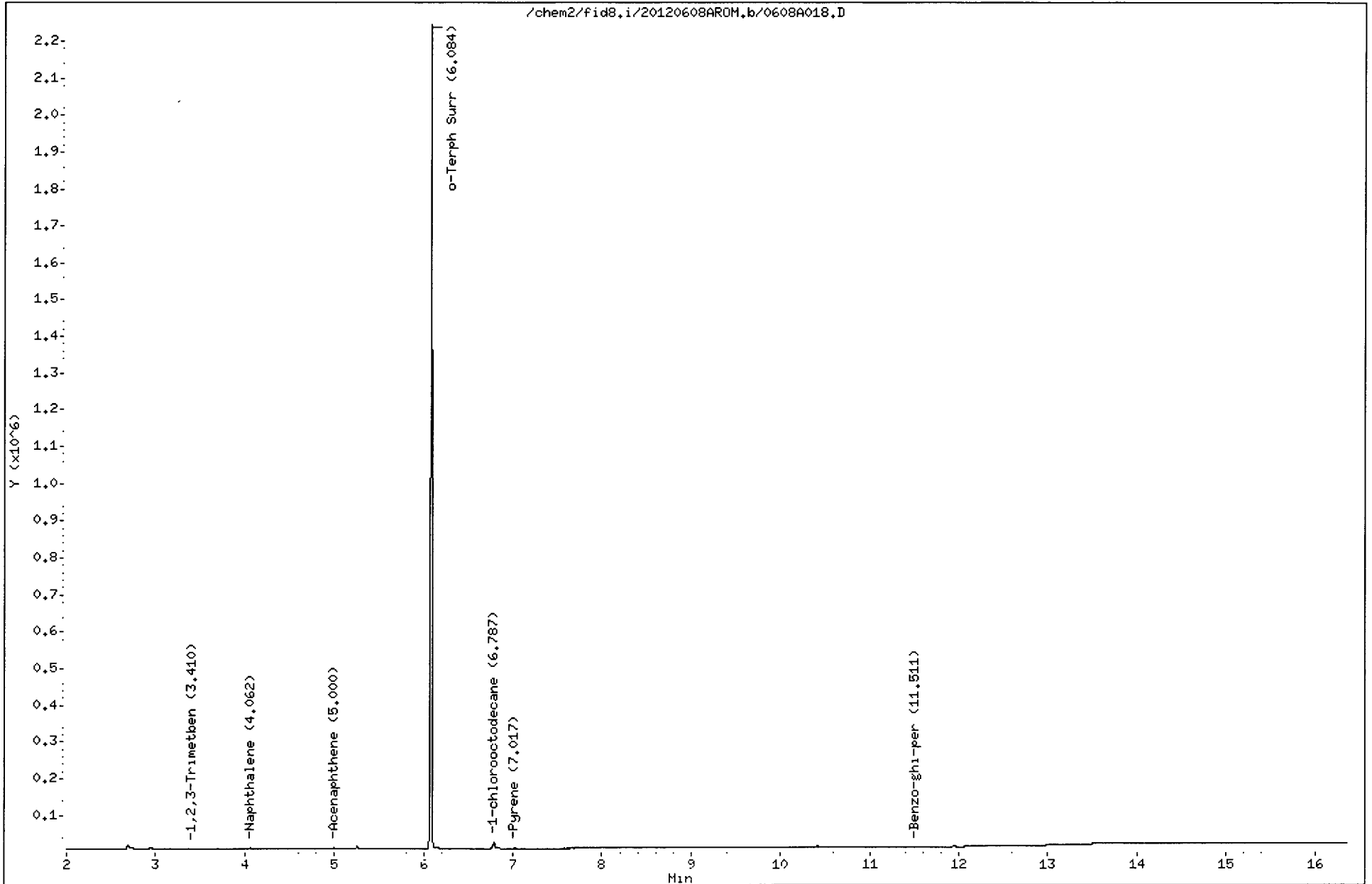
Sample Info: UW94MBS1

Instrument: fid8.1

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



UW85:00140

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A018.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

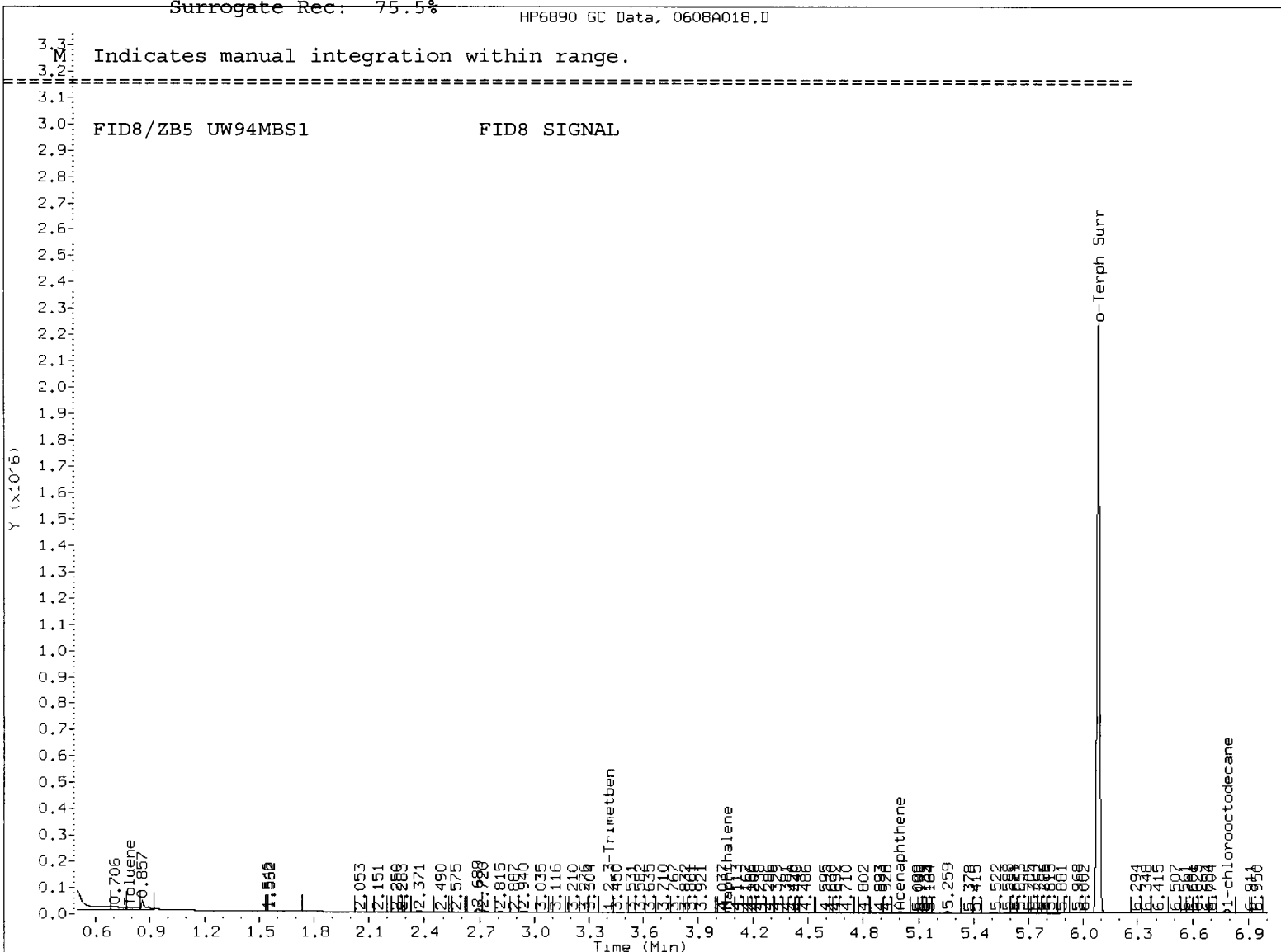
ARI ID: UW94MBS1
 Client ID: UW94MBS1
 Injection: 08-JUN-2012 18:55
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|--------|------|------------------|
| C8-C10 Arom. | 19994 | 187495 | 9 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 5380 | 0 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 4356 | 0 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 45925 | 2 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 14548 | 1 | (7.123 - 11.616) |

Surrogate Rec: 75.5%

HP6890 GC Data, 0608A018.D



MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A019.D
Report Date: 11-Jun-2012 10:20

Page 1

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A019.D
Lab Smp Id: UW94LCSS1 Client Smp ID: UW94LCSS1
Inj Date : 08-JUN-2012 19:20
Operator : MH Inst ID: fid8.i
Smp Info : UW94LCSS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | 0.717 | 0.756 | -0.039 | 20942 | 0.99884 | 0.998 |
| 3 1,2,3-Trimetben | 3.407 | 3.387 | 0.020 | 1078 | 0.05667 | 0.056 |
| 4 Naphthalene | 4.057 | 4.063 | -0.006 | 1838269 | 94.4065 | 94.406 |
| 7 Acenaphthene | 4.999 | 5.003 | -0.004 | 1810010 | 95.8141 | 95.814 |
| \$ 11 o-Terph Surr | 6.078 | 6.084 | -0.006 | 2120149 | 102.828 | 102.827 |
| 75 1-chlorooctodecane | 6.784 | 6.782 | 0.002 | 111554 | | |
| 13 Pyrene | 7.015 | 7.023 | -0.008 | 2572117 | 115.097 | 115.097 |
| 21 Benzo-ghi-per | 11.512 | 11.516 | -0.004 | 2725751 | 110.768 | 110.768 |

Date : 08-JUN-2012 19:20

Client ID: UW94LCSS1

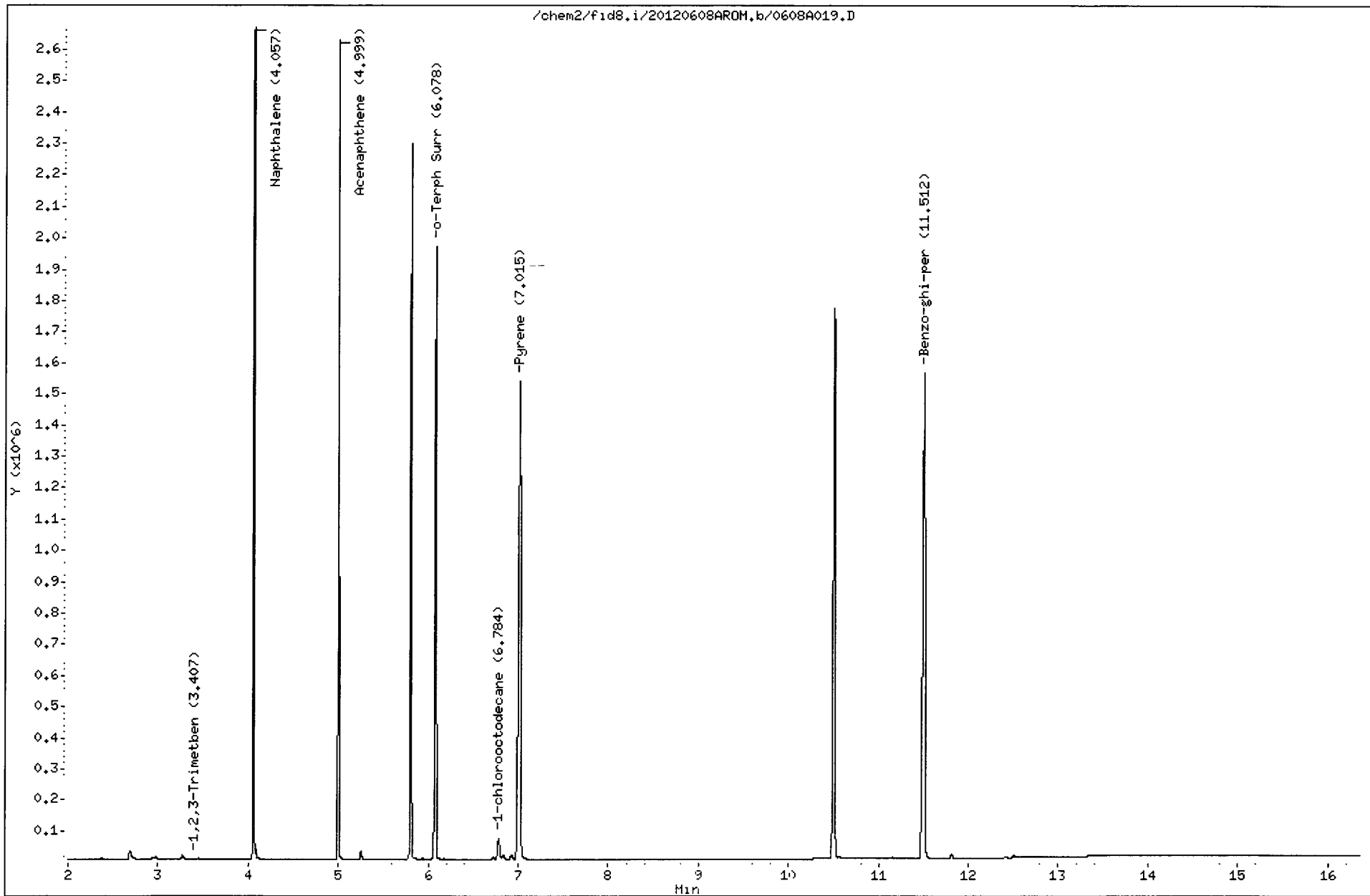
Sample Info: UW94LCSS1

Instrument: fid8.1

Operator: MH

Column diameter: 0,32

Column phase: ZB-5



Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A019.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

ARI ID: UW94LCSS1
 Client ID: UW94LCSS1
 Injection: 08-JUN-2012 19:20
 Matrix: SOIL
 Dilution Factor: 1

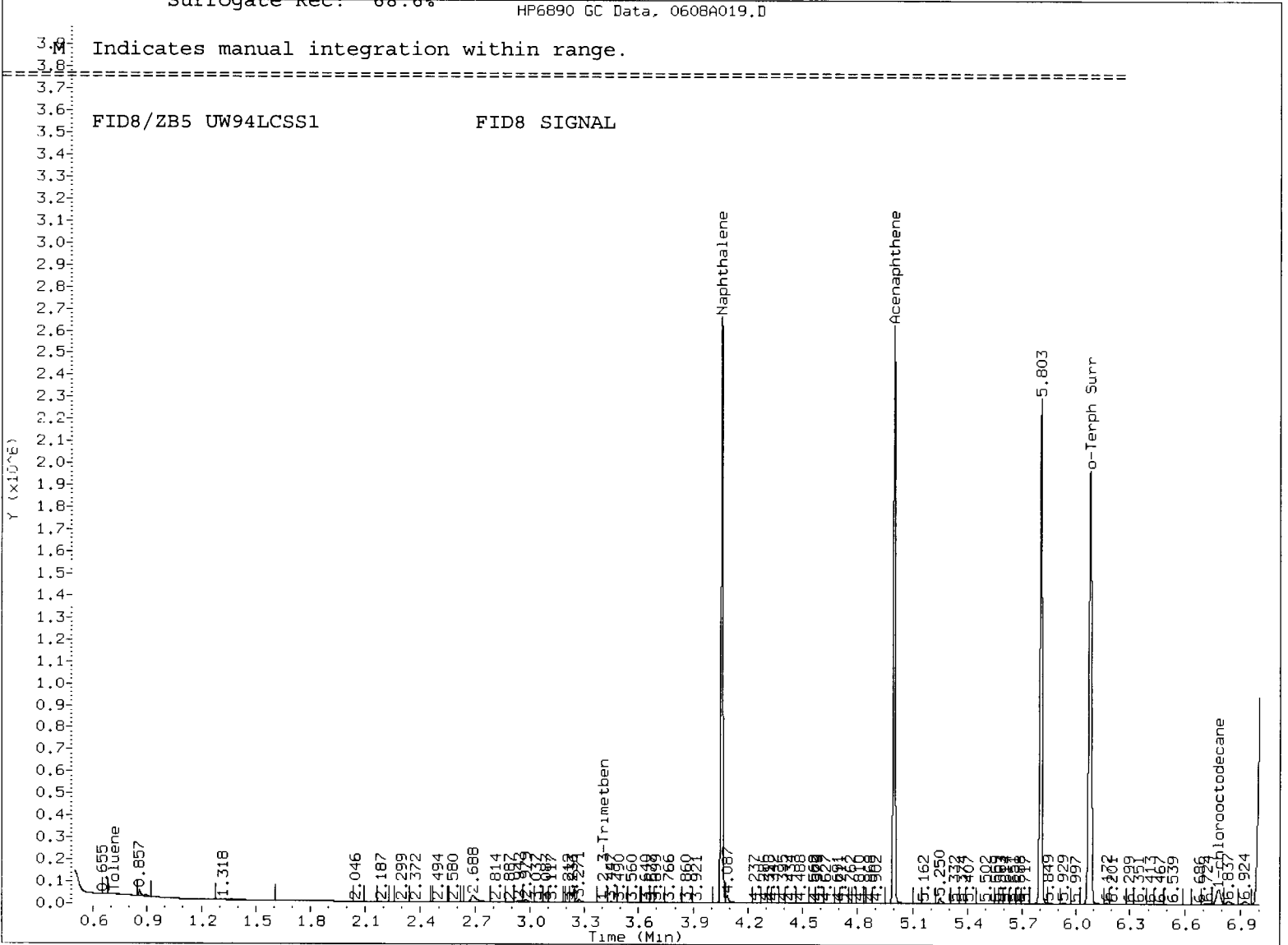
EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 159839 | 8 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 1880884 | 97 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1819550 | 96 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 4765652 | 213 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 5150863 | 209 | (7.123 - 11.616) |

Surrogate Rec: 68.6%

HP6890 GC Data, 0608A019.D

Indicates manual integration within range.



MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A020.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A020.D
Lab Smp Id: UW94LCSDS1 Client Smp ID: UW94LCSDS1
Inj Date : 08-JUN-2012 19:46
Operator : MH Inst ID: fid8.i
Smp Info : UW94LCSDS1
Misc Info : 12-10102
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|------------------------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | Compound Not Detected. | | | | | |
| 3 1,2,3-Trimetben | 3.391 | 3.387 | 0.004 | 171 | 0.00899 | 0.008 |
| 4 Naphthalene | 4.056 | 4.063 | -0.007 | 1771985 | 91.0024 | 91.002 |
| 7 Acenaphthene | 4.999 | 5.003 | -0.004 | 1771893 | 93.7963 | 93.796 |
| \$ 11 o-Terph Surr | 6.075 | 6.084 | -0.009 | 2199401 | 106.671 | 106.671 |
| 75 1-chlorooctodecane | 6.780 | 6.782 | -0.002 | 15591 | | |
| 13 Pyrene | 7.013 | 7.023 | -0.010 | 2685829 | 120.186 | 120.185 |
| 21 Benzo-ghi-per | 11.513 | 11.516 | -0.003 | 2775834 | 112.804 | 112.803 |

Date : 08-JUN-2012 19:46

Client ID: UW94LCSDS1

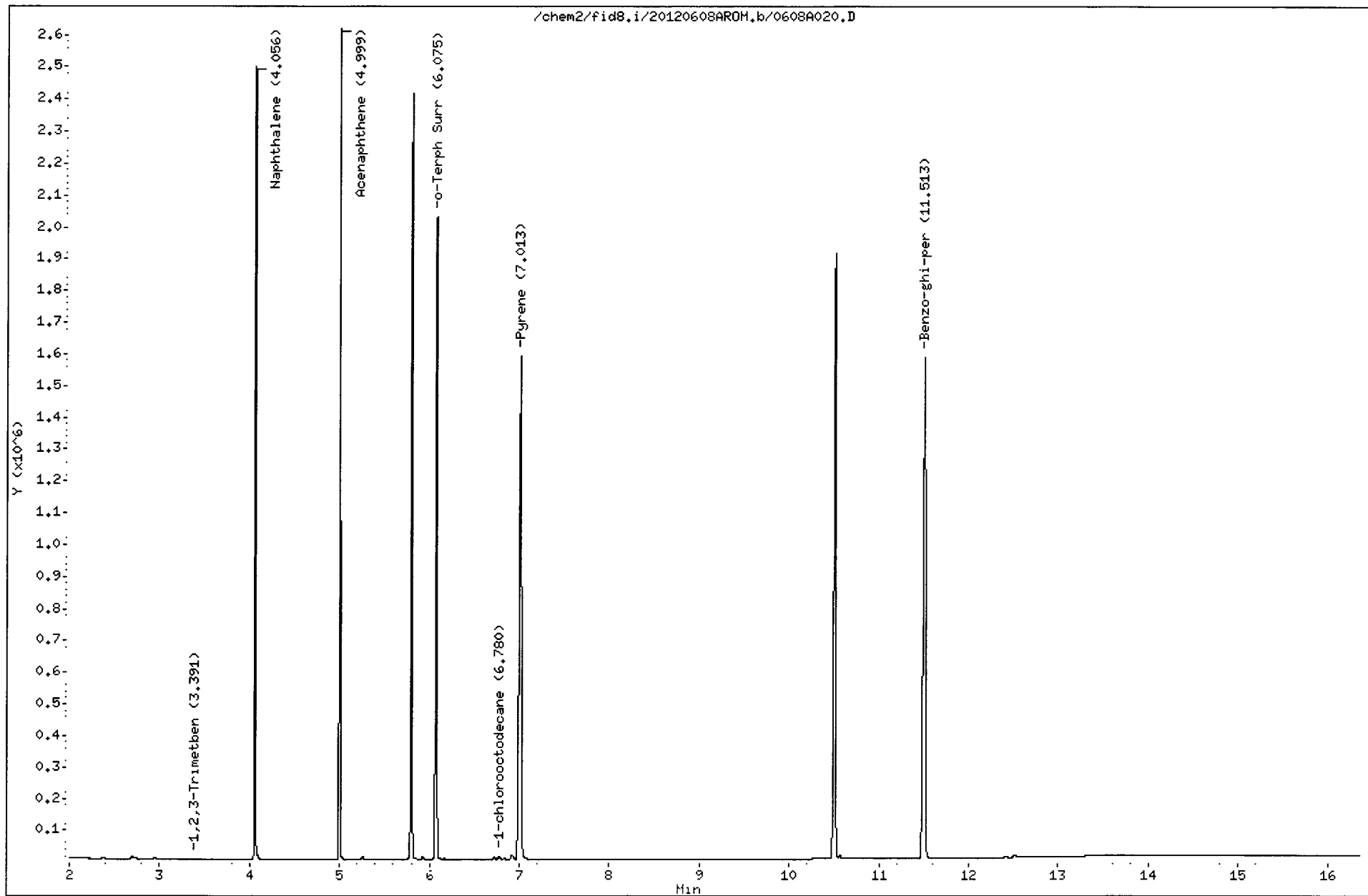
Sample Info: UW94LCSDS1

Instrument: fid8.1

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A020.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

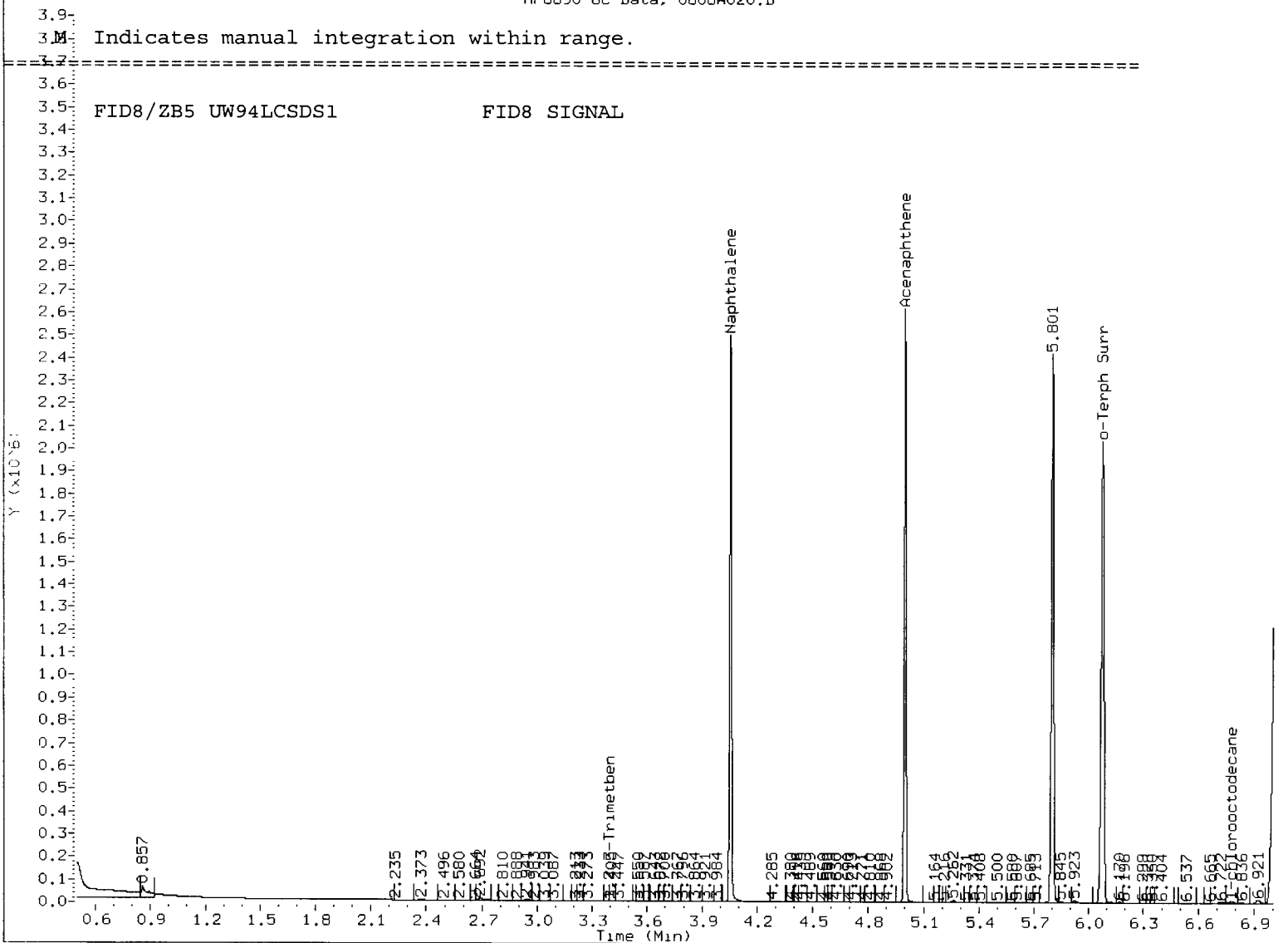
ARI ID: UW94LCSDS1
 Client ID: UW94LCSDS1
 Injection: 08-JUN-2012 19:46
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 179261 | 9 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 1774645 | 91 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1775566 | 94 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 4852571 | 217 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 5450226 | 221 | (7.123 - 11.616) |

Surrogate Rec: 71.1%

HP6890 GC Data, 0608A020.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A023.D
Lab Smp Id: UW85A Client Smp ID: MS001-SS-120515
Inj Date : 08-JUN-2012 21:01
Operator : MH Inst ID: fid8.i
Smp Info : UW85A
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.770 | 0.756 | 0.014 | 1206 | 0.05755 | 0.057 (M) |
| 3 1,2,3-Trimetben | 3.386 | 3.387 | -0.001 | 334 | 0.01758 | 0.017 |
| 4 Naphthalene | 4.060 | 4.063 | -0.003 | 6380 | 0.32770 | 0.327 |
| 7 Acenaphthene | 4.998 | 5.003 | -0.005 | 4512 | 0.23889 | 0.238 |
| \$ 11 o-Terph Surr | 6.080 | 6.084 | -0.004 | 2270982 | 110.143 | 110.143 |
| 75 1-chlorooctodecane | 6.766 | 6.782 | -0.016 | 26648 | | |
| 13 Pyrene | 7.005 | 7.023 | -0.018 | 25711 | 1.15055 | 1.150 |
| 21 Benzo-ghi-per | 11.496 | 11.516 | -0.020 | 19538 | 0.79399 | 0.793 |

QC Flag Legend

M - Compound response manually integrated.

Date : 08-JUN-2012 21:01

Client ID: MS001-SS-120515

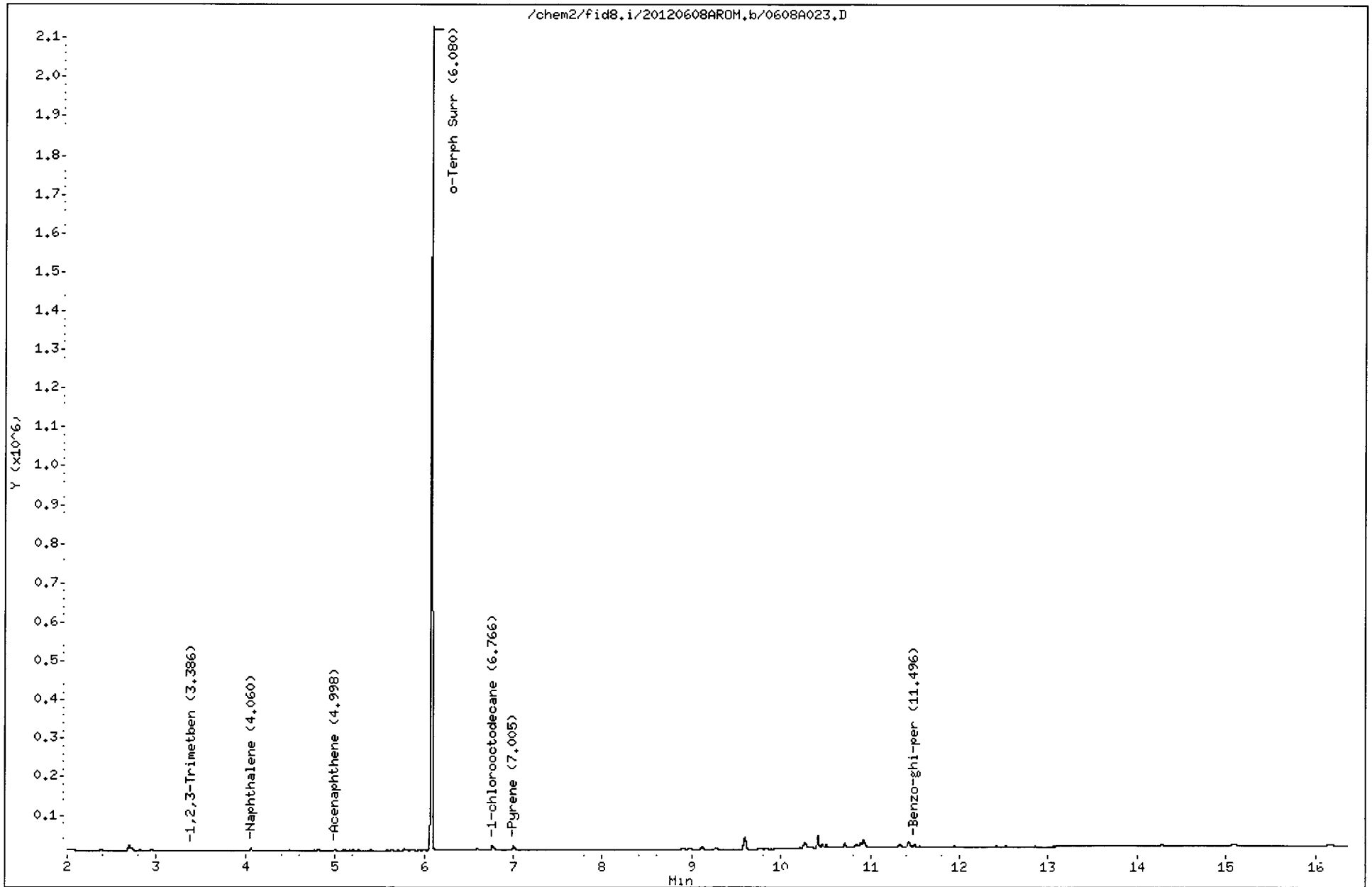
Sample Info: UW85A

Instrument: fid8.1

Operator: MH

Column diameter: 0,32

Column phase: ZB-5



UW85:00149

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A023.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

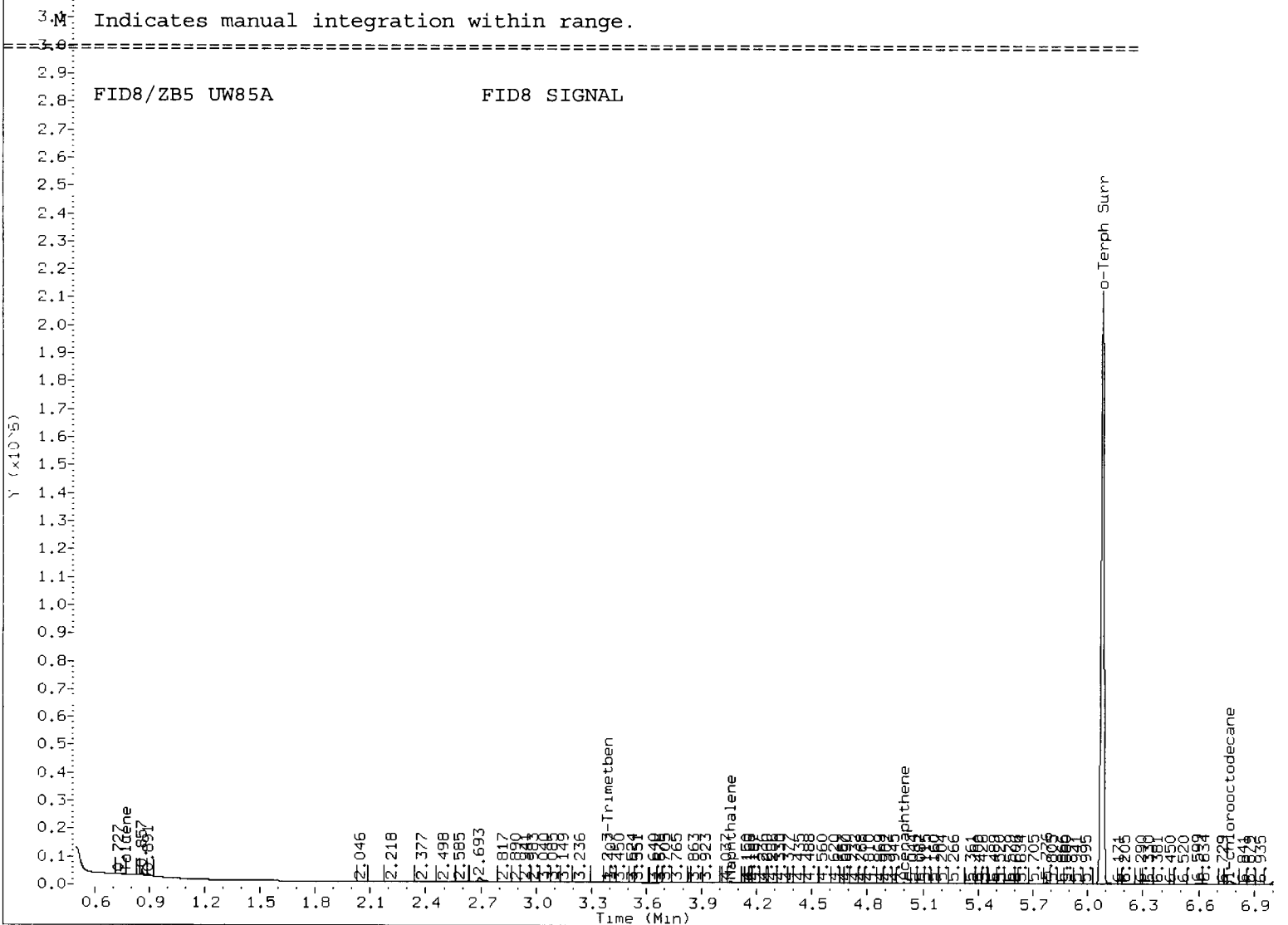
ARI ID: UW85A
 Client ID: MS001-SS-120515
 Injection: 08-JUN-2012 21:01
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|--------|------|-------------------|
| C8-C10 Arom. | 19994 | 71950 | 4 | (0.656 - 3.487) M |
| C10-C12 Arom. | 19472 | 11028 | 1 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 25613 | 1 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 134260 | 6 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 727597 | 30 | (7.123 - 11.616) |

Surrogate Rec: 73.4%

HP6890 GC Data, 0608A023.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A024.D
Lab Smp Id: UW85AMS Client Smp ID: MS001-SS-120515 MS
Inj Date : 08-JUN-2012 21:26
Operator : MH Inst ID: fid8.i
Smp Info : UW85AMS
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 22 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.737 | 0.756 | -0.019 | 18679 | 0.89095 | 0.890 |
| 3 1,2,3-Trimetben | 3.407 | 3.387 | 0.020 | 4187 | 0.22014 | 0.220 |
| 4 Naphthalene | 4.057 | 4.063 | -0.006 | 1641403 | 84.2963 | 84.296 |
| 7 Acenaphthene | 4.999 | 5.003 | -0.004 | 1804747 | 95.5355 | 95.535 |
| \$ 11 o-Terph Surr | 6.082 | 6.084 | -0.002 | 2270741 | 110.131 | 110.131 |
| 75 1-chlorooctodecane | 6.783 | 6.782 | 0.001 | 35883 | | |
| 13 Pyrene | 7.020 | 7.023 | -0.003 | 2727738 | 122.061 | 122.060 |
| 21 Benzo-ghi-per | 11.517 | 11.516 | 0.001 | 2902975 | 117.971 | 117.970 |

Date : 08-JUN-2012 21:26

Client ID: MS001-SS-120515 MS

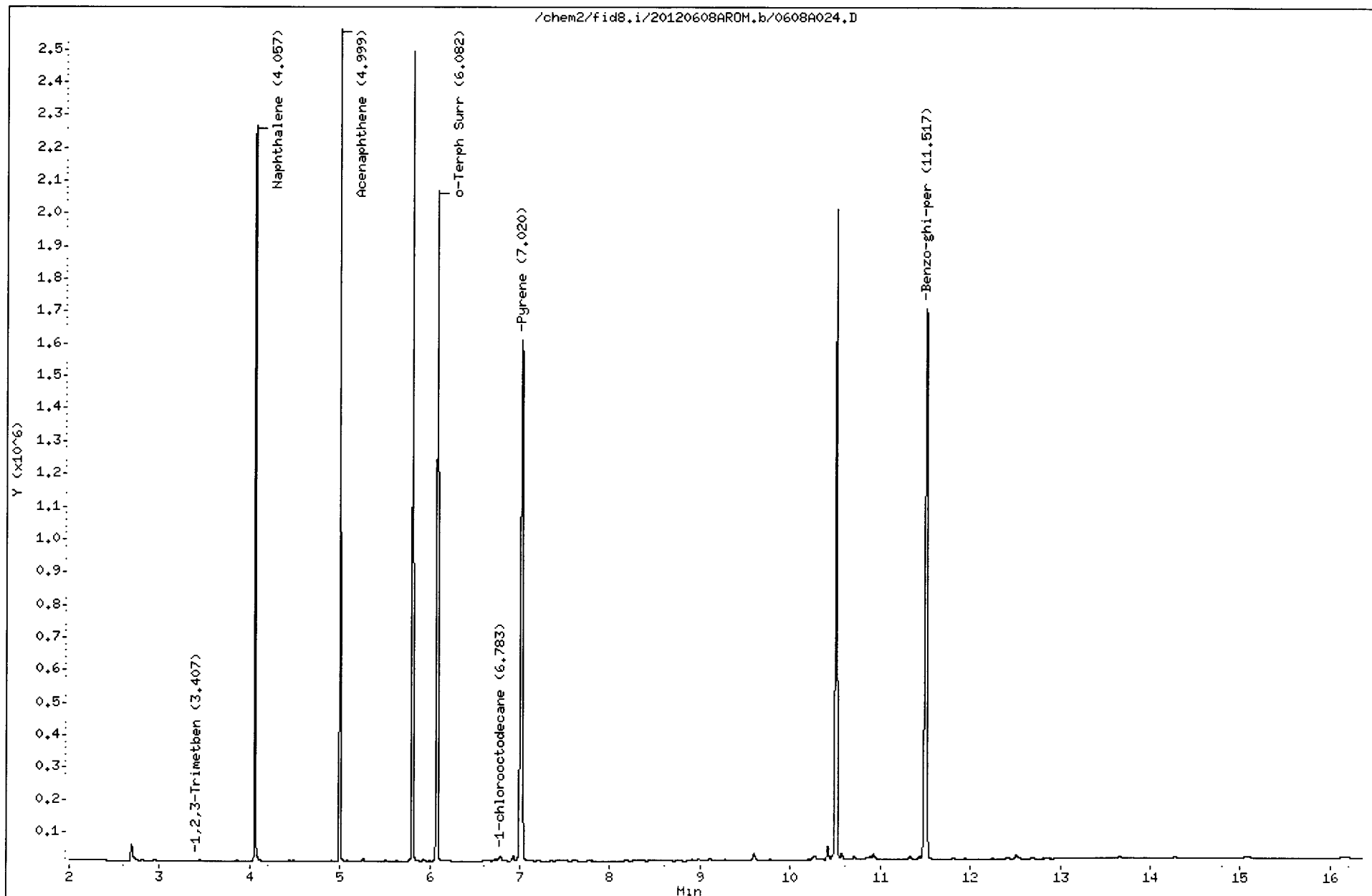
Sample Info: UW85AMS

Instrument: fid8.i

Operator: MH

Column diameter: 0,32

Column phase: ZB-5



UW85:00152

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A024.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

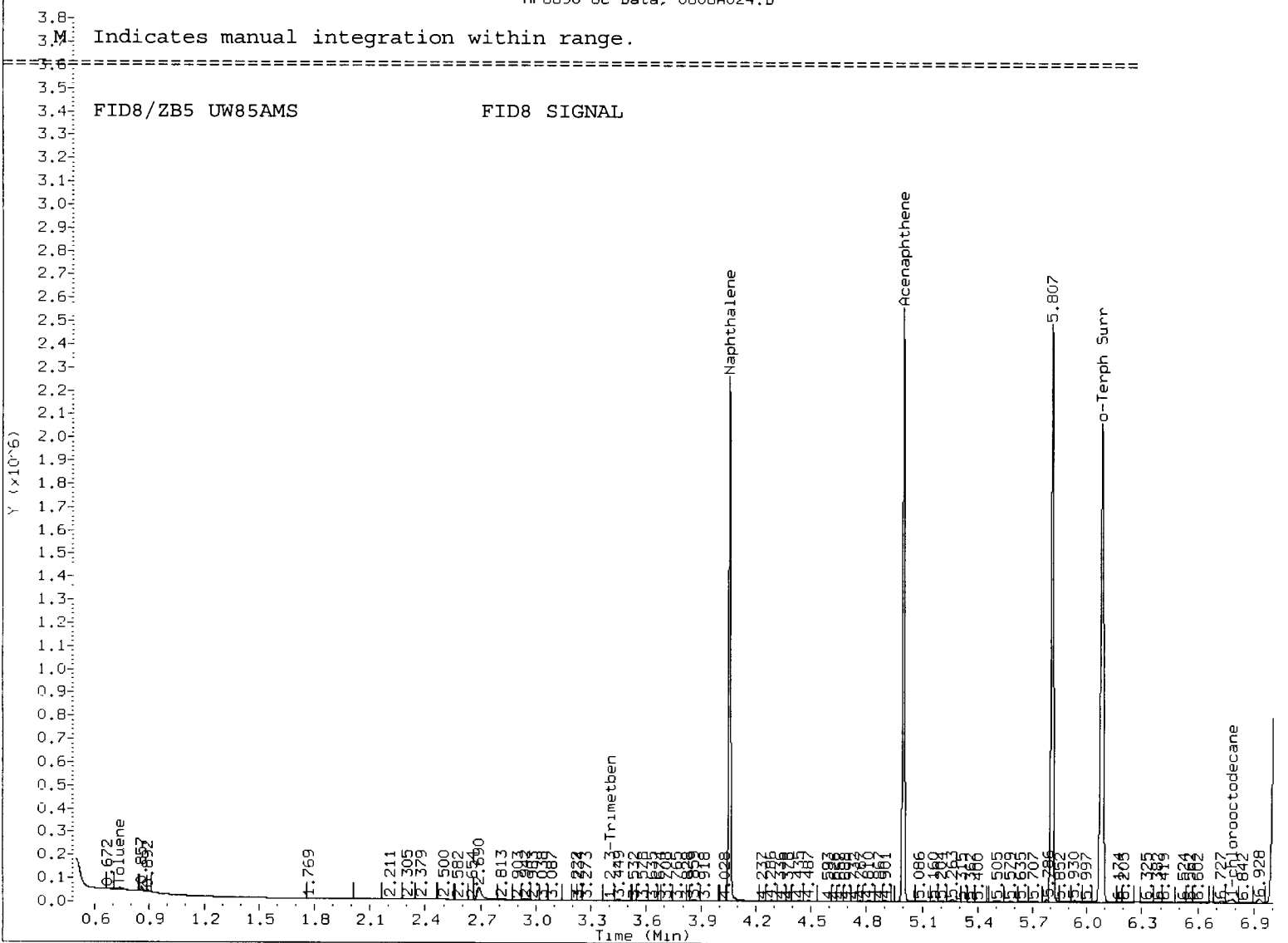
ARI ID: UW85AMS
 Client ID: MS001-SS-120515 MS
 Injection: 08-JUN-2012 21:26
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|-------------------|
| C8-C10 Arom. | 19994 | 174288 | 9 | (0.656 - 3.487) M |
| C10-C12 Arom. | 19472 | 1662252 | 85 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1846107 | 98 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 5041136 | 226 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 6310927 | 256 | (7.123 - 11.616) |

Surrogate Rec: 73.4%

HP6890 GC Data, 0608A024.D



MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A025.D
Report Date: 11-Jun-2012 10:20

Page 1

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A025.D
Lab Smp Id: UW85AMSD Client Smp ID: MS001-SS-120515 MSD
Inj Date : 08-JUN-2012 21:52
Operator : MH Inst ID: fid8.i
Smp Info : UW85AMSD
Misc Info : 12-10066
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.718 | 0.756 | -0.038 | 7275 | 0.34700 | 0.346 (M) |
| 3 1,2,3-Trimetben | 3.384 | 3.387 | -0.003 | 369 | 0.01940 | 0.019 |
| 4 Naphthalene | 4.056 | 4.063 | -0.007 | 1843495 | 94.6749 | 94.674 (M) |
| 7 Acenaphthene | 4.998 | 5.003 | -0.005 | 1779915 | 94.2210 | 94.220 (M) |
| \$ 11 o-Terph Surr | 6.080 | 6.084 | -0.004 | 2163872 | 104.948 | 104.948 (M) |
| 75 1-chlorooctodecane | 6.769 | 6.782 | -0.013 | 23101 | | (M) |
| 13 Pyrene | 7.017 | 7.023 | -0.006 | 2674752 | 119.690 | 119.689 (M) |
| 21 Benzo-ghi-per | 11.514 | 11.516 | -0.002 | 2745377 | 111.566 | 111.566 (M) |

QC Flag Legend

M - Compound response manually integrated.

Date : 08-JUN-2012 21:52

Client ID: MS001-SS-120515 MSD

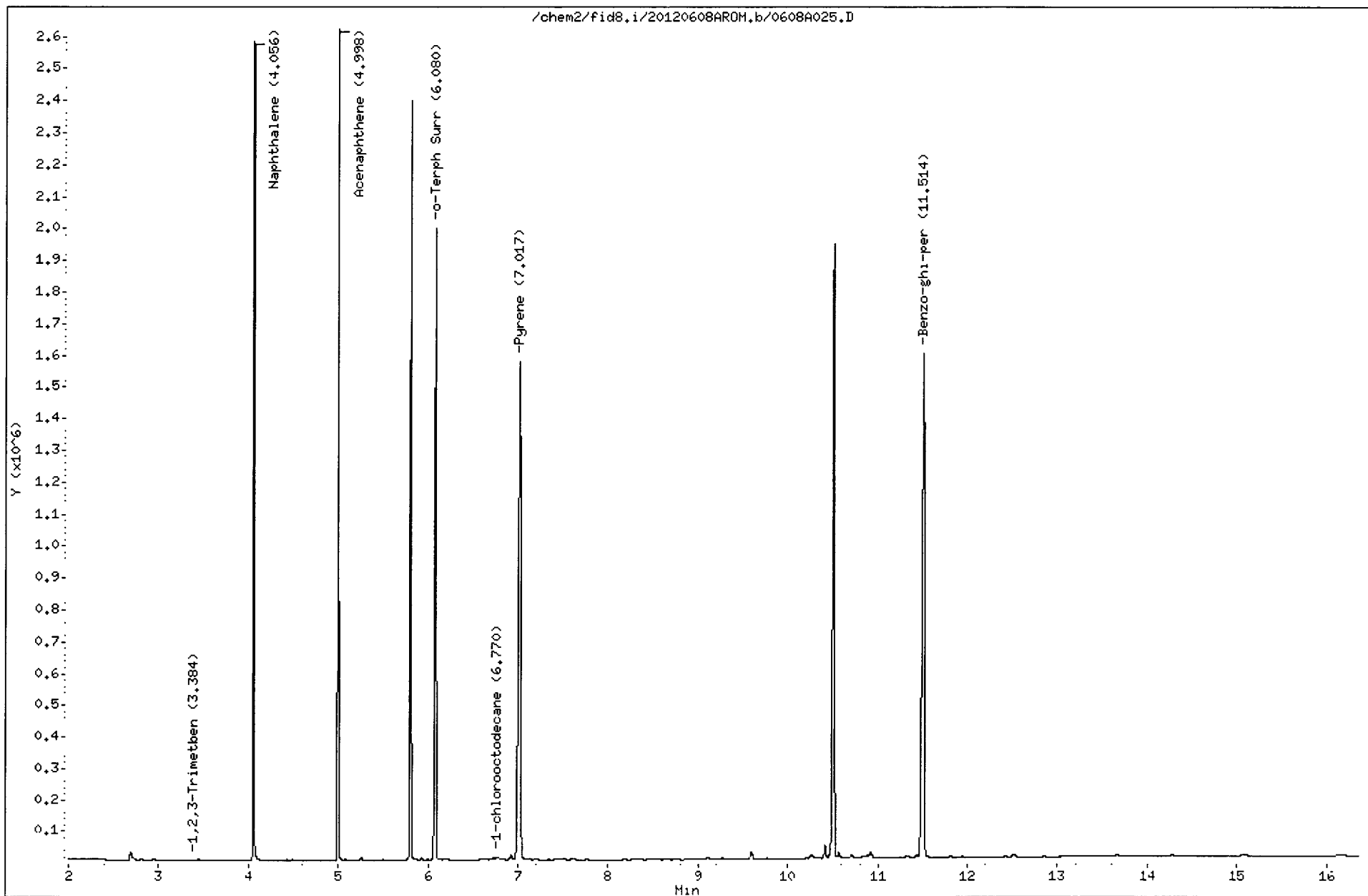
Sample Info: UW85AMSD

Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



UW85:00155

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A025.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

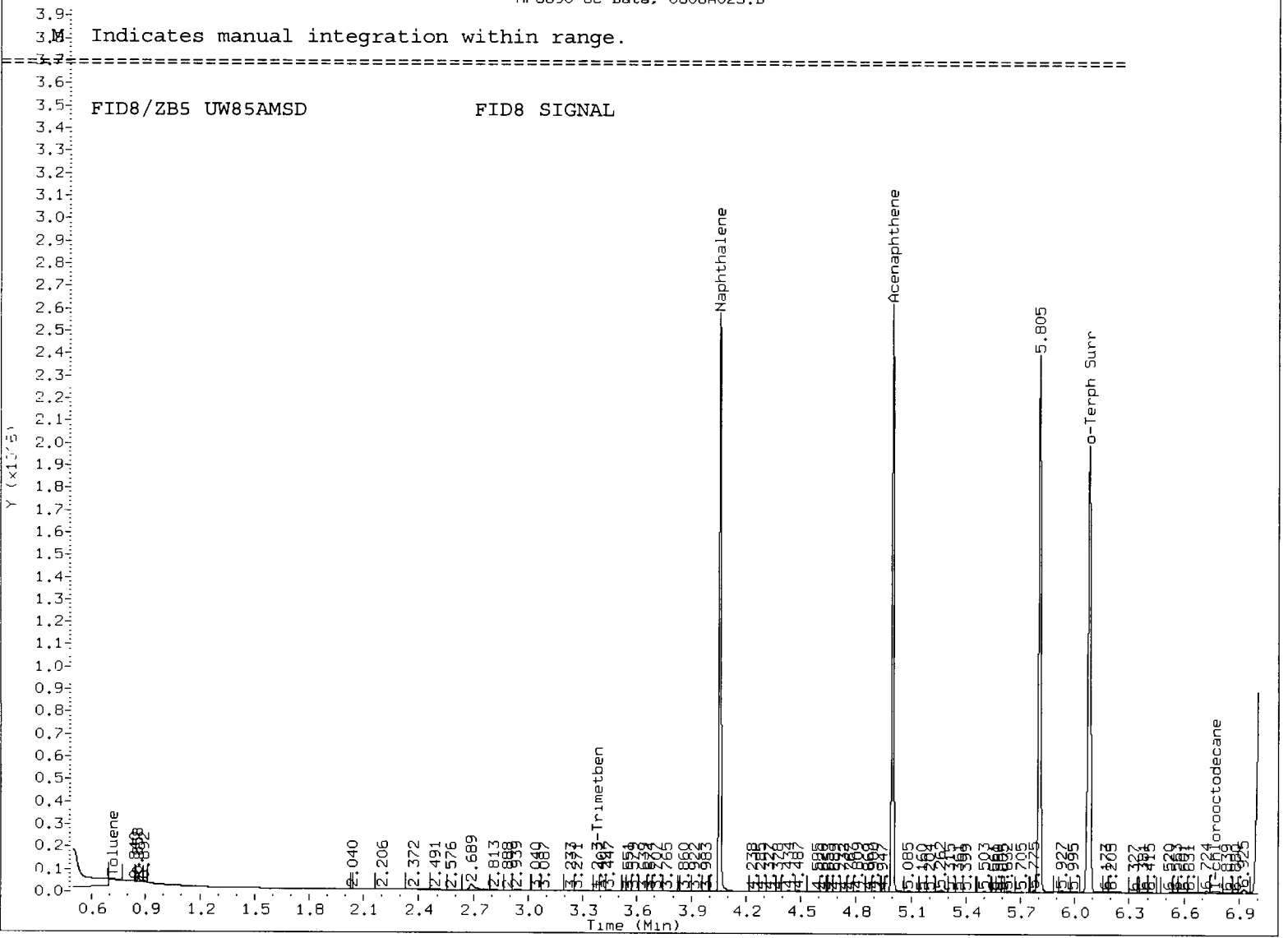
ARI ID: UW85AMSD
 Client ID: MS001-SS-120515 MSD
 Injection: 08-JUN-2012 21:52
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|-------------------|
| C8-C10 Arom. | 19994 | 117032 | 6 | (0.656 - 3.487) M |
| C10-C12 Arom. | 19472 | 1849253 | 95 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1807457 | 96 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 4877425 | 218 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 6008620 | 244 | (7.123 - 11.616) |

Surrogate Rec: 70.0%

HP6890 GC Data, 0608A025.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A026.D
Lab Smp Id: UW85B Client Smp ID: MS002-SS-120515
Inj Date : 08-JUN-2012 22:17
Operator : MH Inst ID: fid8.i
Smp Info : UW85B
Misc Info : 12-10067
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT | RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.738 | 0.756 | -0.018 | | 10135 | 0.48340 | 0.483 |
| 3 1,2,3-Trimetben | 3.408 | 3.387 | 0.021 | | 1153 | 0.06062 | 0.060 (M) |
| 4 Naphthalene | 4.060 | 4.063 | -0.003 | | 5676 | 0.29153 | 0.291 (M) |
| 7 Acenaphthene | 4.997 | 5.003 | -0.006 | | 7436 | 0.39363 | 0.393 (M) |
| \$ 11 o-Terph Surr | 6.080 | 6.084 | -0.004 | | 2321153 | 112.576 | 112.576 (M) |
| 75 1-chlorooctodecane | 6.763 | 6.782 | -0.019 | | 33812 | | (M) |
| 13 Pyrene | 7.004 | 7.023 | -0.019 | | 30495 | 1.36460 | 1.364 (M) |
| 21 Benzo-ghi-per | 11.497 | 11.516 | -0.019 | | 30596 | 1.24339 | 1.243 (M) |

QC Flag Legend

M - Compound response manually integrated.

Date : 08-JUN-2012 22:17

Client ID: MS002-SS-120515

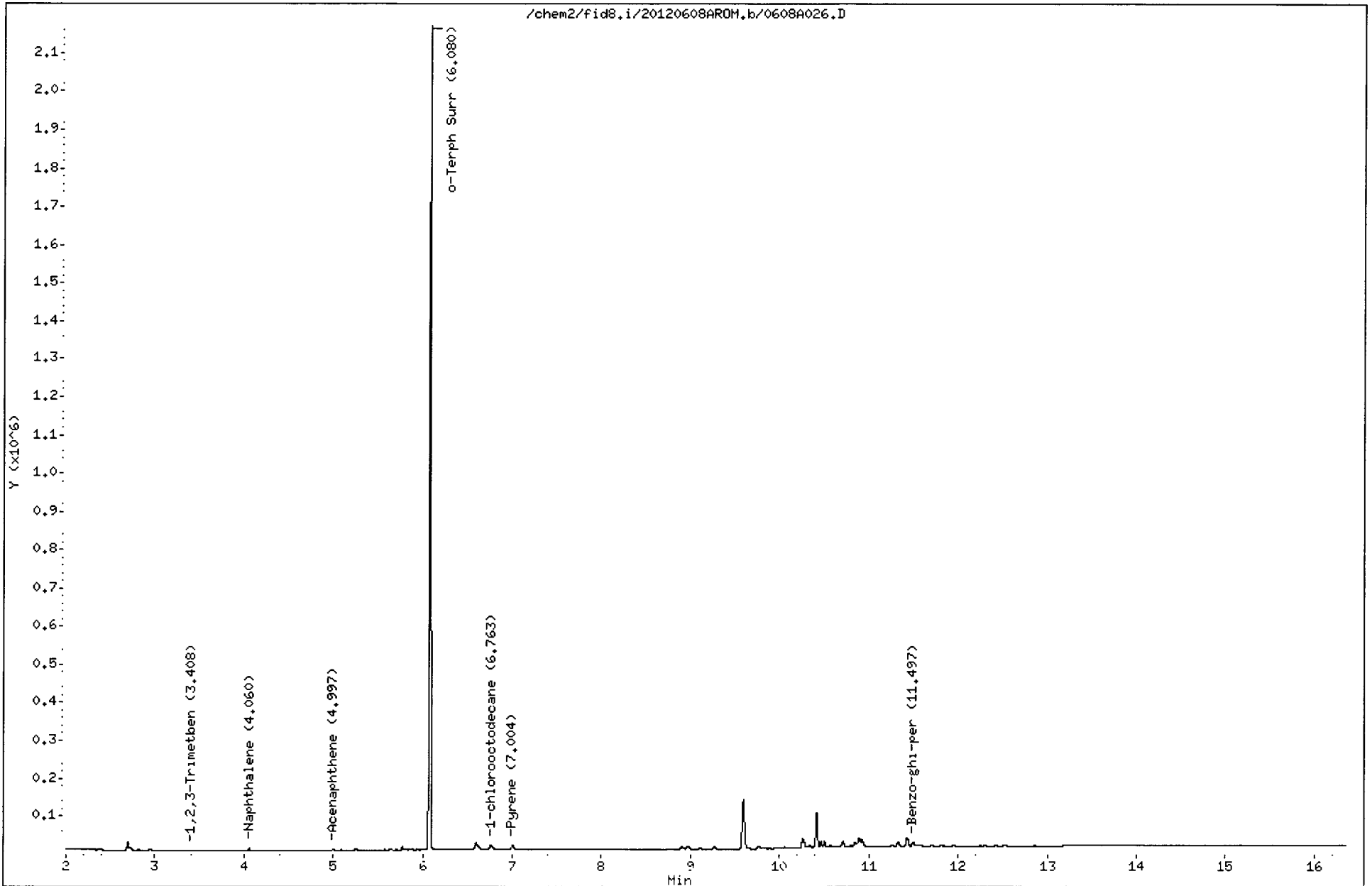
Sample Info: UM85B

Instrument: fid8.i

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A026.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

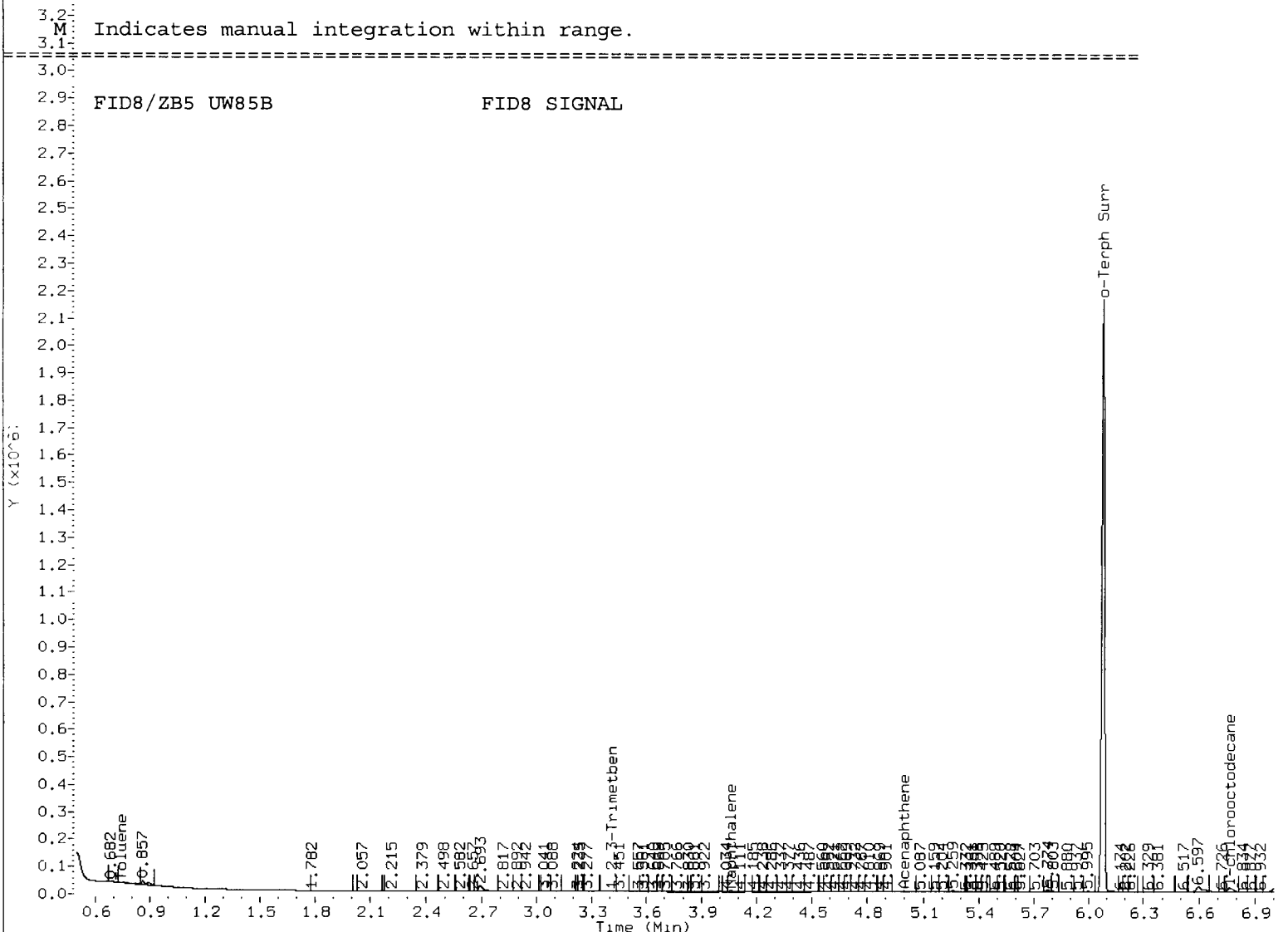
ARI ID: UW85B
 Client ID: MS002-SS-120515
 Injection: 08-JUN-2012 22:17
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 96047 | 5 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 13149 | 1 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 33980 | 2 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 222325 | 10 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 1232662 | 50 | (7.123 - 11.616) |

Surrogate Rec: 75.1%

HP6890 GC Data, 0608A026.D



MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A027.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A027.D
Lab Smp Id: UW85C Client Smp ID: MS003-SS-120515
Inj Date : 08-JUN-2012 22:42
Operator : MH Inst ID: fid8.i
Smp Info : UW85C
Misc Info : 12-10068
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.738 | 0.756 | -0.018 | 2753 | 0.13134 | 0.131 |
| 3 1,2,3-Trimetben | 3.410 | 3.387 | 0.023 | 1213 | 0.06378 | 0.063 |
| 4 Naphthalene | 4.061 | 4.063 | -0.002 | 2558 | 0.13141 | 0.131 |
| 7 Acenaphthene | 4.998 | 5.003 | -0.005 | 4482 | 0.23730 | 0.237 |
| \$ 11 o-Terph Surr | 6.082 | 6.084 | -0.002 | 2233941 | 108.347 | 108.346 |
| 75 1-chlorooctodecane | 6.780 | 6.782 | -0.002 | 30279 | | |
| 13 Pyrene | 7.006 | 7.023 | -0.017 | 14999 | 0.67118 | 0.671 |
| 21 Benzo-ghi-per | 11.499 | 11.516 | -0.017 | 14689 | 0.59696 | 0.596 |

Date : 08-JUN-2012 22:42

Client ID: MS003-SS-120515

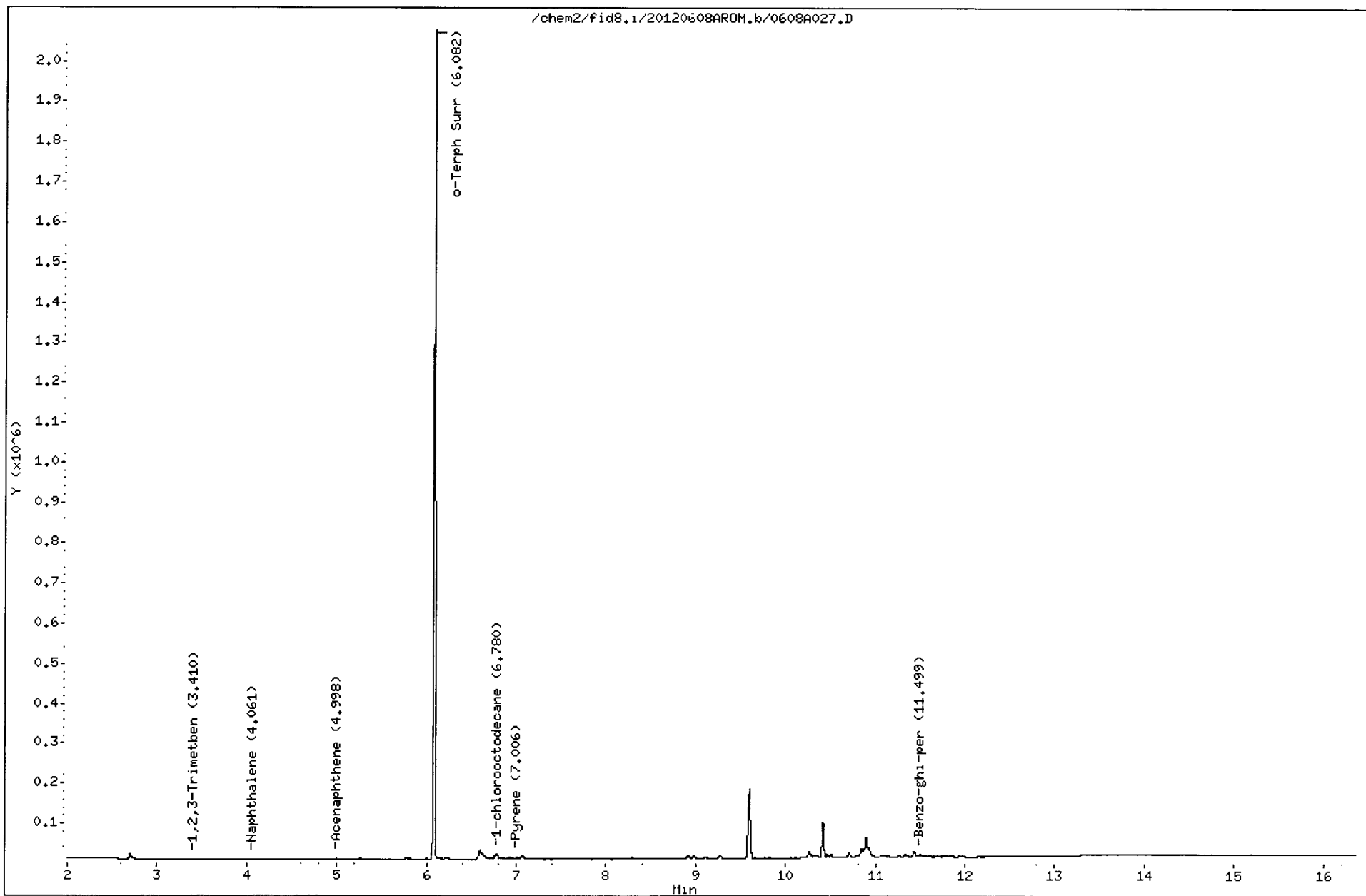
Sample Info: UW85C

Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



Analytical Resources Inc.
 EPH Aromatics Report

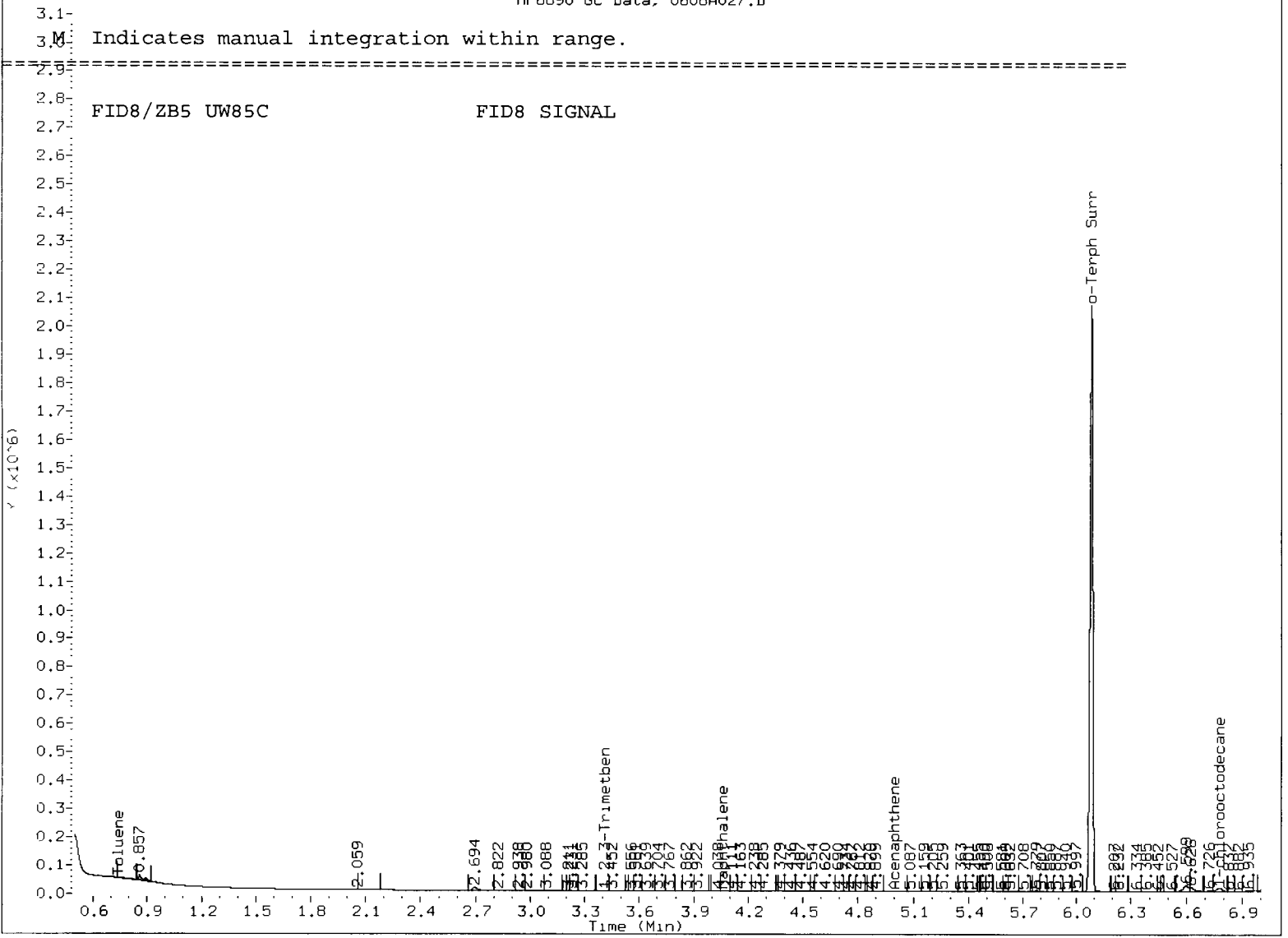
Data file: /chem2/fid8.i/20120608AROM.b/0608A027.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

ARI ID: UW85C
 Client ID: MS003-SS-120515
 Injection: 08-JUN-2012 22:42
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 66465 | 3 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 14273 | 1 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 18158 | 1 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 213374 | 10 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 1219926 | 50 | (7.123 - 11.616) |

Surrogate Rec: 72.2% HP6890 GC Data, 0608A027.D



MH
6/11/12

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A028.D
Lab Smp Id: UW85D Client Smp ID: MS006-SS-120515
Inj Date : 08-JUN-2012 23:07
Operator : MH Inst ID: fid8.i
Smp Info : UW85D
Misc Info : 12-10069
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah Quant Type: ESTD
Cal Date : 18-MAY-2012 21:13 Cal File: 0518A031.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: warom.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/kg) |
| 2 Toluene | 0.763 | 0.756 | 0.007 | 16155 | 0.77055 | 0.770 (M) |
| 3 1,2,3-Trimetben | 3.383 | 3.387 | -0.004 | 653 | 0.03438 | 0.034 |
| 4 Naphthalene | 4.060 | 4.063 | -0.003 | 7808 | 0.40101 | 0.401 |
| 7 Acenaphthene | 4.998 | 5.003 | -0.005 | 2238 | 0.11850 | 0.118 |
| \$ 11 o-Terph Surr | 6.078 | 6.084 | -0.006 | 2264597 | 109.833 | 109.833 |
| 75 1-chlorooctodecane | 6.780 | 6.782 | -0.002 | 31806 | | |
| 13 Pyrene | 7.004 | 7.023 | -0.019 | 19068 | 0.85328 | 0.853 |
| 21 Benzo-ghi-per | 11.493 | 11.516 | -0.023 | 15700 | 0.63805 | 0.638 |

QC Flag Legend

M - Compound response manually integrated.

Date : 08-JUN-2012 23:07

Client ID: MS006-SS-120515

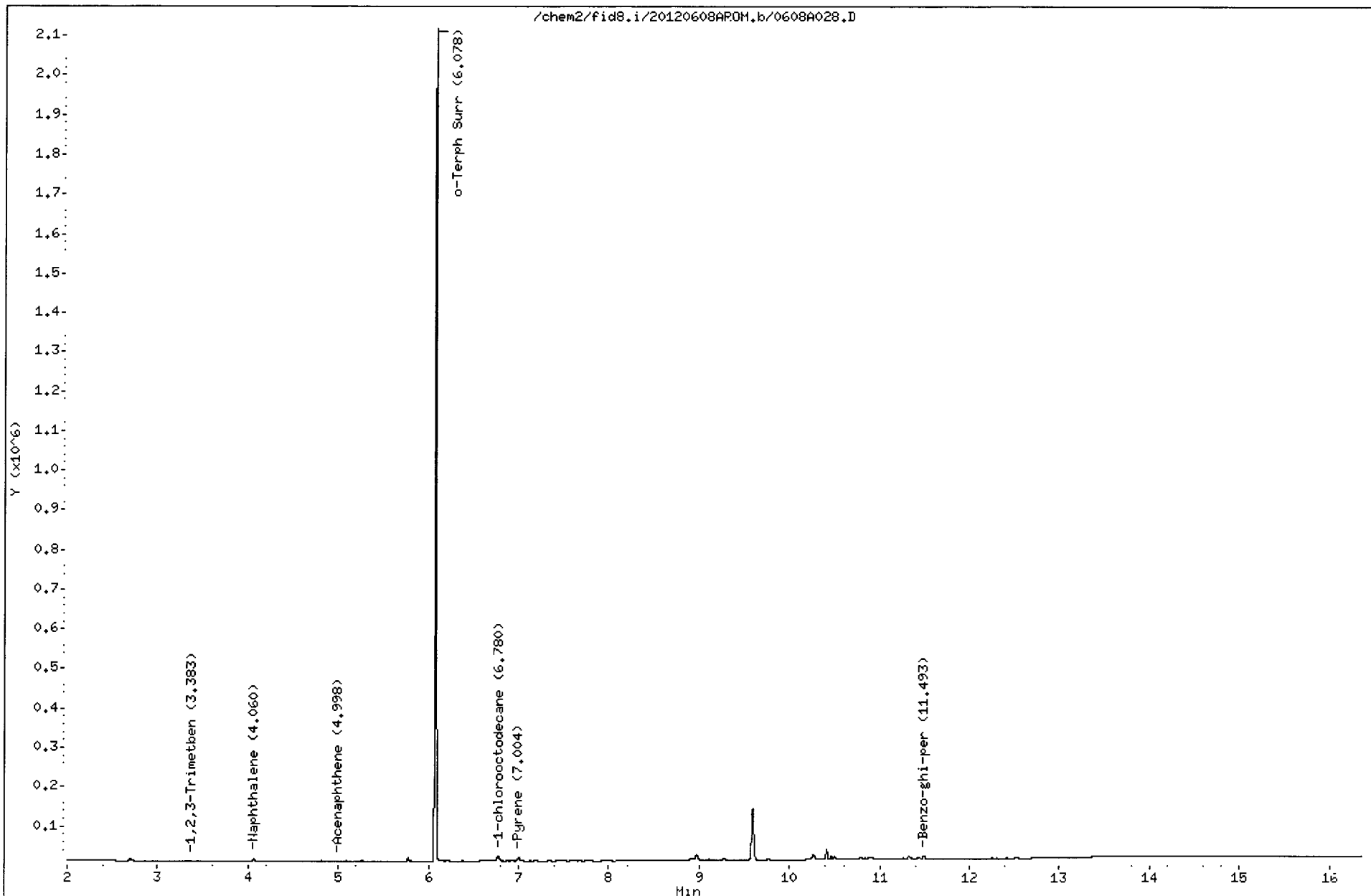
Sample Info: UW85D

Instrument: fid8.i

Operator: MH

Column diameter: 0.32

Column phase: ZB-5



UW85: 00164

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A028.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

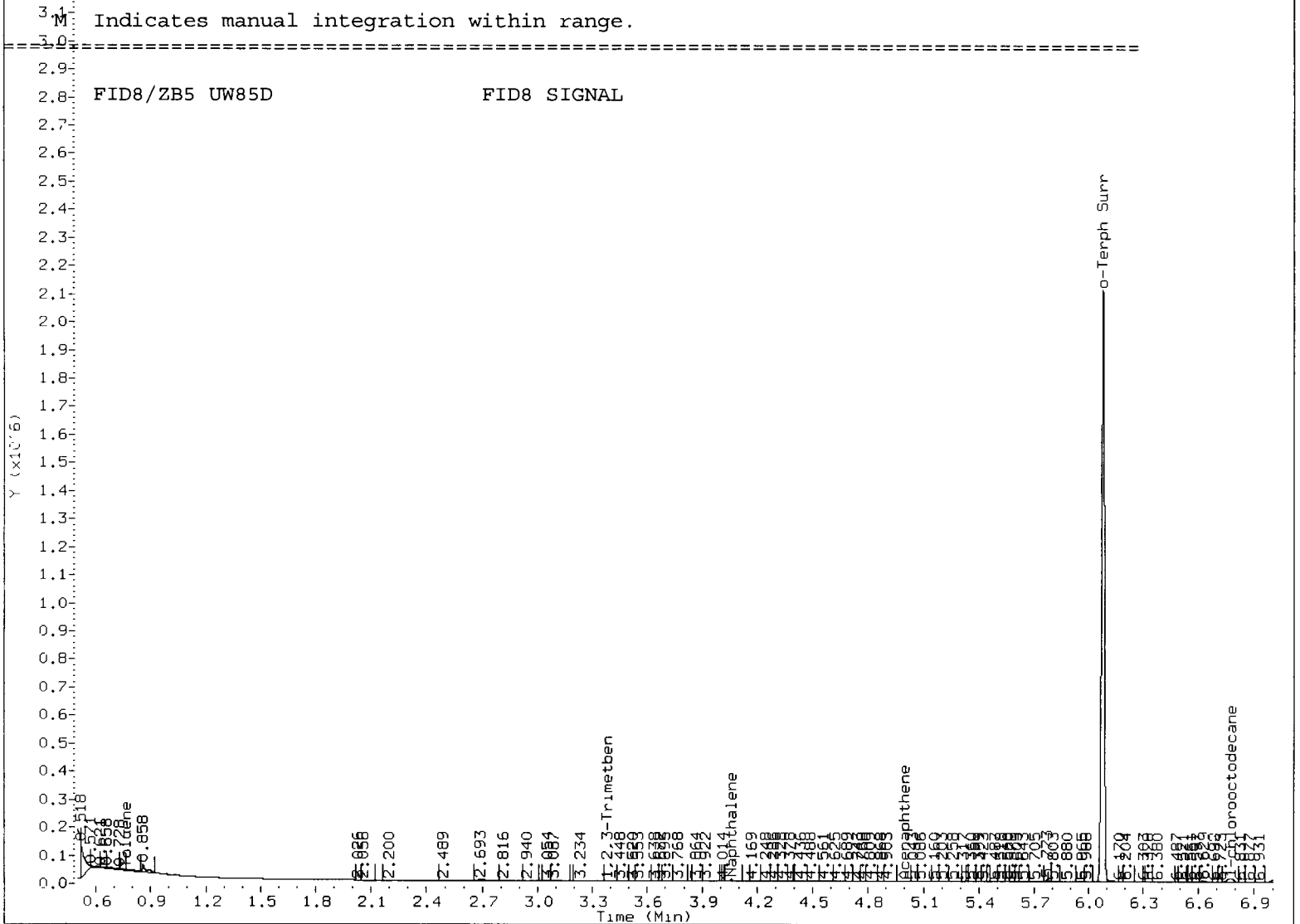
ARI ID: UW85D
 Client ID: MS006-SS-120515
 Injection: 08-JUN-2012 23:07
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|--------|------|-------------------|
| C8-C10 Arom. | 19994 | 121538 | 6 | (0.656 - 3.487) M |
| C10-C12 Arom. | 19472 | 10369 | 1 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 16291 | 1 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 125577 | 6 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 713881 | 29 | (7.123 - 11.616) |

Surrogate Rec: 73.2%

HP6890 GC Data, 0608A028.D



MH
6/11/12

Data File: /chem2/fid8.i/20120608AROM.b/0608A029.D
Report Date: 11-Jun-2012 10:20

Analytical Resources, Inc.

Data file : /chem2/fid8.i/20120608AROM.b/0608A029.D
Lab Smp Id: AROMATIC #2
Inj Date : 08-JUN-2012 23:32
Operator : MH
Smp Info : AROMATIC #2
Misc Info :
Comment :
Method : /chem2/fid8.i/20120608AROM.b/EPHArOm.m
Meth Date : 25-May-2012 10:35 monicah
Cal Date : 18-MAY-2012 21:13
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Inst ID: fid8.i
Quant Type: ESTD
Cal File: 0518A031.D
Compound Sublist: warom.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| Compounds | RT | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS | |
|-----------------------|--------|--------|--------|----------|----------------------|------------------|
| | | | | | ON-COLUMN (ng/mL) | FINAL (ug/Kg) |
| 2 Toluene | 0.749 | 0.756 | -0.007 | 2069074 | 98.6859 | 98.685 |
| 3 1,2,3-Trimetben | 3.381 | 3.387 | -0.006 | 1861128 | 97.8419 | 97.841 |
| 4 Naphthalene | 4.058 | 4.063 | -0.005 | 1880475 | 96.5741 | 96.574 |
| 7 Acenaphthene | 4.998 | 5.003 | -0.005 | 1756844 | 92.9997 | 92.999 |
| \$ 11 o-Terph Surr | 6.075 | 6.084 | -0.009 | 1920443 | 93.1418 | 93.141 |
| 75 1-chlorooctodecane | 6.780 | 6.782 | -0.002 | 1516 | | |
| 13 Pyrene | 7.011 | 7.023 | -0.012 | 2278416 | 101.955 | 101.954 |
| 21 Benzo-ghi-per | 11.504 | 11.516 | -0.012 | 2148472 | 87.3092 | 87.309 |

Date : 08-JUN-2012 23:32

Client ID:

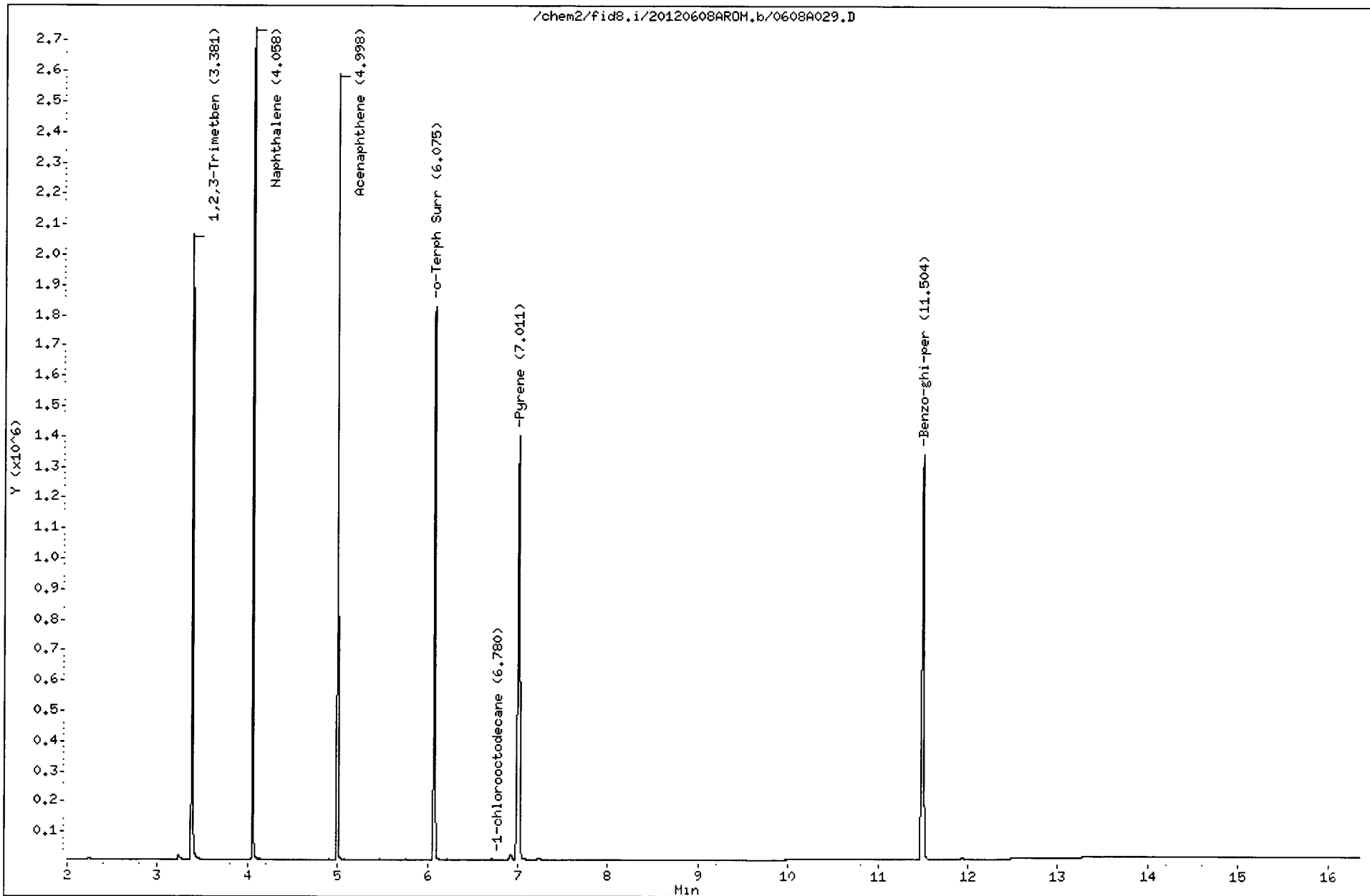
Instrument: fid8.1

Sample Info: AROMATIC #2

Operator: MH

Column phase: ZB-5

Column diameter: 0,32



UW85:00167

Analytical Resources Inc.
 EPH Aromatics Report

Data file: /chem2/fid8.i/20120608AROM.b/0608A029.D
 Method: /chem2/fid8.i/20120608AROM.b/EPHArOm.m
 Instrument: fid8.i
 Operator: MH
 Report Date: 06/11/2012
 Macro: AROM120911FID8

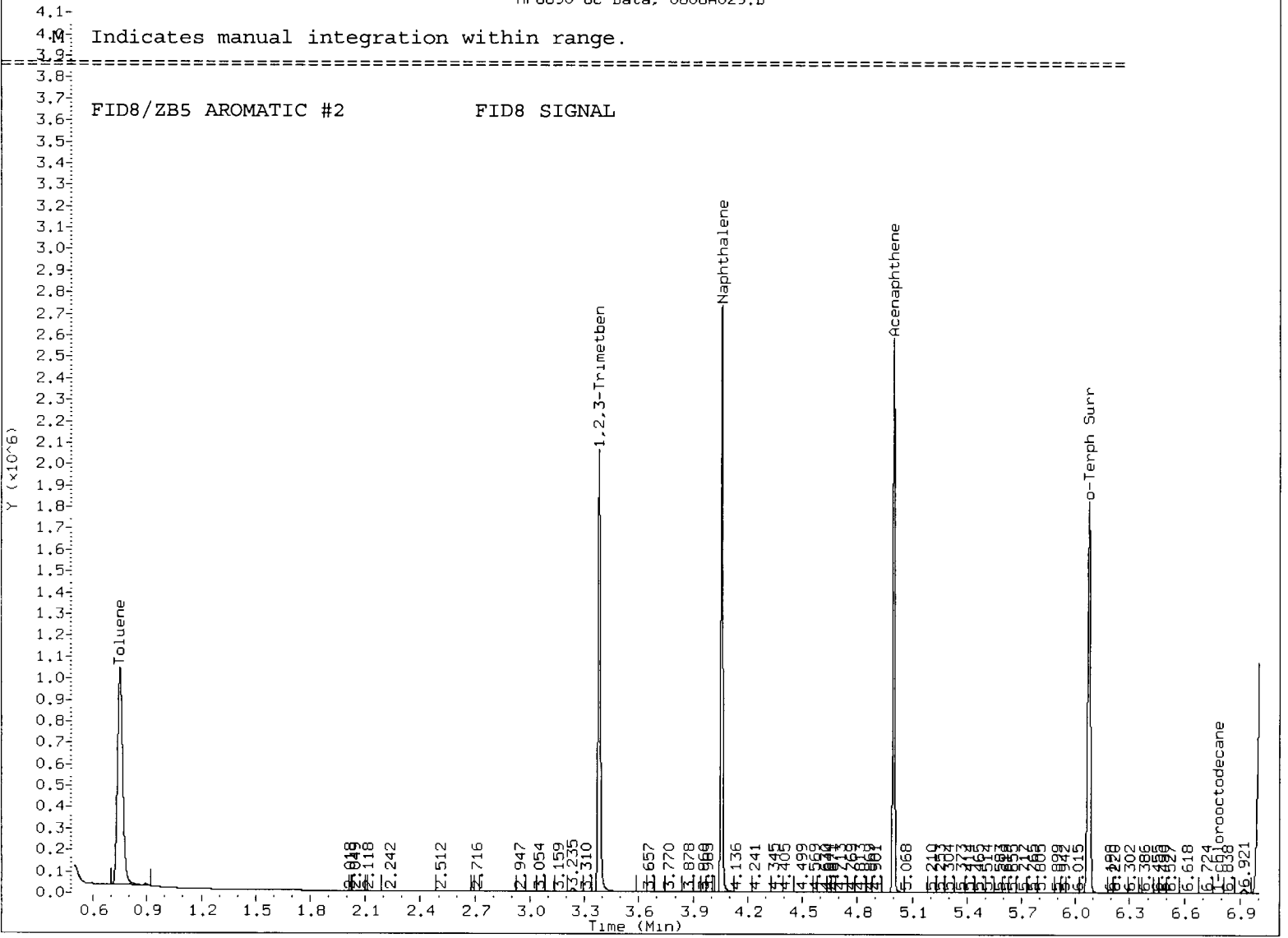
ARI ID: AROMATIC #2
 Client ID:
 Injection: 08-JUN-2012 23:32
 Matrix: SOIL
 Dilution Factor: 1

EPH-AROMATIC RESULTS

| Quant Range | RF | Area | Conc | Time Range |
|---------------|-------|---------|------|------------------|
| C8-C10 Arom. | 19994 | 3960436 | 198 | (0.656 - 3.487) |
| C10-C12 Arom. | 19472 | 1888612 | 97 | (3.487 - 4.163) |
| C12-C16 Arom. | 18891 | 1766993 | 94 | (4.163 - 5.103) |
| C16-C21 Arom. | 22347 | 2329076 | 104 | (5.103 - 7.123) |
| C21-C34 Arom. | 24608 | 2163696 | 88 | (7.123 - 11.616) |

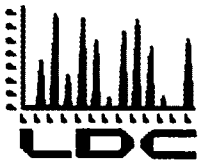
Surrogate Rec: 62.1%

HP6890 GC Data, 0608A029.D



ATTACHMENT E-3

CHEMISTRY DATA VALIDATION REPORT



Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437

Web www.lab-data.com

Fax 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

June 28, 2012

SUBJECT: Jeld-Wen Maulsby Marsh, Data Validation

Dear Ms. Fields,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on June 14, 2012. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 27826:

| <u>SDG #</u> | <u>Fraction</u> |
|---------------------|---|
| UU52/UU62 UW85 | Semivolatiles, Chlorinated Pesticides, Polychlorinated Biphenyls, Metals, Wet Chemistry, Total Petroleum Hydrocarbons as Diesel, Extractable Petroleum Hydrocarbons |

The data validation was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Ming-Hwa Hwang
Project Manager/Senior Chemist

| EDD LDC #27826 (Anchor Environmental-Seattle WA /Jeld-Wen Maulsby Marsh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|------------|--------------|--------------|----|--------------|----|-------------|----|----------------|----|-----|---|-------------------|----|---------------|----|------------|----|----------------------|----|--------------------|----|-------------|----|------------|----|---|---|---|---|---|---|---|---|---|---|-----|
| LDC | SDG# | DATE REC'D | (3) DATE DUE | SVOA (8270D) | | Pest (8081A) | | PCBs (8082) | | Metals (SW846) | | EPH | | TPH-D (NWTPH -Dx) | | NH3-N (350.1) | | =S (376.2) | | Total Solids (2540B) | | Pres. Total Solids | | TOC (9060M) | | Grain Size | | | | | | | | | | | | |
| | | | | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | |
| Matrix: Water/Soil/Sediment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | UU52/UU62 | 06/14/12 | 07/06/12 | 2 | 11 | 2 | 20 | 2 | 11 | 2 | 10 | - | - | 2 | 10 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | | | | | | | | | | | |
| B | UW85 | 06/14/12 | 07/06/12 | - | - | - | - | - | - | - | - | 0 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Total | | | | 2 | 11 | 2 | 20 | 2 | 11 | 2 | 10 | 0 | 4 | 2 | 10 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment/Water
Parameters: Semivolatiles
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): UU52/UU62

Sample Identification

MS001-SS-120515
MS101-SS-120515
MS002-SS-120515
MS003-SS-120515
MS004-SS-120515
MS005-SS-120515
MS006-SS-120515
MS006-SS-120515DL
MS007-SS-120515
MS008-SS-120515
MS009-SS-120515
MS-SSRB-120515
MS-SSFB-120515
MS007-SS-120515MS
MS007-SS-120515MSD

Introduction

This data review covers 13 sediment samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270D for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 30.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|---------|-------------------|------|---|---|--------|
| 5/23/12 | Pentachlorophenol | 34.6 | MS-SSRB-120515 MS-SSFB-120515 MB-052112 | J (all detects) UJ (all non-detects) | A |

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|--|---------------------|---------------------|----------------------|-----------------|---|--------|
| MS007-SS-120515MS/MSD (MS007-SS-120515) | Phenol | 26.8 (50-150) | 23.2 (50-150) | - | J (all detects) UJ (all non-detects) | A |
| | Benzoic acid | - | 47.0 (50-150) | - | | |
| | 2-Methylnaphthalene | 48.4 (50-150) | 48.8 (50-150) | - | | |
| MS007-SS-120515MS/MSD (MS007-SS-120515) | 4-Methylphenol | 8.1 (50-150) | -1.6 (50-150) | - | J (all detects) R (all non-detects) | A |

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| LCS ID (Associated Samples) | Compound | LCS %R (Limits) | Flag | A or P |
|--|--------------|--------------------|---|--------|
| LCS-052212 (MS001-SS-120515 MS101-SS-120515 MS002-SS-120515 MS003-SS-120515 MS004-SS-120515 MS005-SS-120515 MS006-SS-120515 MS006-SS-120515DL MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 MB-052212) | Benzoic acid | 48.4 (50-150) | J (all detects) UJ (all non-detects) | P |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|-----------------|-------------|---|---|-----------------|--------|
| MS006-SS-120515 | Naphthalene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) | A |

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

The analysis was conducted within all specifications of the method.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were rejected as follows:

| Sample | Compound | Flag | A or P |
|-------------------|--------------------------------------|------|--------|
| MS006-SS-120515 | Naphthalene | R | A |
| MS006-SS-120515DL | All TCL compounds except Naphthalene | R | A |

Due to calibration %D, MS/MSD and LCS %R problems, data were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD |
|---------------------|-----------------------|-----------------|-----------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Phenol | 300 | 400 | 29 (≤50) |
| 4-Methylphenol | 1200 | 1600 | 29 (≤50) |
| Benzoic acid | 390 | 640 | 49 (≤50) |
| Naphthalene | 1100 | 1800 | 48 (≤50) |
| 2-Methylnaphthalene | 170 | 270 | 45 (≤50) |
| Acenaphthylene | 74 | 130 | 55 (≤50) |
| Acenaphthene | 110 | 160 | 37 (≤50) |
| Dibenzofuran | 180 | 280 | 43 (≤50) |
| Fluorene | 120 | 170 | 34 (≤50) |
| Pentachlorophenol | 600U | 160 | 200 (≤50) |
| Phenanthrene | 690 | 1200 | 54 (≤50) |
| Carbazole | 42 | 57 | 30 (≤50) |
| Anthracene | 140 | 180 | 25 (≤50) |
| Fluoranthene | 660 | 970 | 38 (≤50) |

| Compound | Concentration (ug/Kg) | | RPD |
|----------------------------|-----------------------|-----------------|----------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Pyrene | 580 | 910 | 44 (≤50) |
| Benzo(a)anthracene | 160 | 170 | 6 (≤50) |
| Bis(2-ethylhexyl)phthalate | 140 | 120 | 15 (≤50) |
| Chrysene | 430 | 400 | 7 (≤50) |
| Benzo(a)pyrene | 260 | 270 | 4 (≤50) |
| Indeno(1,2,3-cd)pyrene | 200 | 230 | 14 (≤50) |
| Dibenzo(a,h)anthracene | 57 | 54 | 5 (≤50) |
| Benzo(g,h,i)perylene | 270 | 330 | 20 (≤50) |
| Retene | 74 | 100 | 30 (≤50) |
| total-Benzofluoranthenes | 570 | 640 | 12 (≤50) |

XVII. Field Blanks

Sample MS-SSFB-120515 was identified as a field blank. No semivolatile contaminants were found with the following exceptions:

| Blank ID | Compound | Concentration (ug/L) |
|----------------|---------------------|----------------------|
| MS-SSFB-120515 | Dimethylphthalate | 0.8 |
| | Di-n-butylphthalate | 3.7 |

Sample MS-SSRB-120515 was identified as a rinsate blank. No semivolatile contaminants were found with the following exceptions:

| Blank ID | Compound | Concentration (ug/L) |
|----------------|-------------------|----------------------|
| MS-SSRB-120515 | Dimethylphthalate | 0.9 |

**Jeld-Wen Maulsby Marsh
Semivolatiles - Data Qualification Summary - SDG UU52/UU62**

| SDG | Sample | Compound | Flag | A or P | Reason |
|-----------|---|---|---|--------|--|
| UU52/UU62 | MS-SSRB-120515 MS-SSFB-120515 | Pentachlorophenol | J (all detects) UJ (all non-detects) | A | Continuing calibration (ICV %D) |
| UU52/UU62 | MS007-SS-120515 | Phenol Benzoic acid 2-Methylnaphthalene | J (all detects) UJ (all non-detects) | A | Matrix spike/Matrix spike duplicate (%R) |
| UU52/UU62 | MS007-SS-120515 | 4-Methylphenol | J (all detects) R (all non-detects) | A | Matrix spike/Matrix spike duplicate (%R) |
| UU52/UU62 | MS001-SS-120515 MS101-SS-120515 MS002-SS-120515 MS003-SS-120515 MS004-SS-120515 MS005-SS-120515 MS006-SS-120515 MS006-SS-120515DL MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | Benzoic acid | J (all detects) UJ (all non-detects) | P | Laboratory control samples (%R) |
| UU52/UU62 | MS006-SS-120515 | Naphthalene | J (all detects) | A | Compound quantitation and RLs (exceeded range) |
| UU52/UU62 | MS006-SS-120515 | Naphthalene | R | A | Overall assessment of data |
| UU52/UU62 | MS006-SS-120515DL | All TCL compounds except Naphthalene | R | A | Overall assessment of data |

**Jeld-Wen Maulsby Marsh
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A2a

VALIDATION COMPLETENESS WORKSHEET

Date: 6/20/12

SDG #: UU52/UU62

Stage 2B *fa*

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|-------------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | 2 RSD \leq 20% \checkmark |
| IV. | Continuing calibration/ICV | SW | CV \leq 20% ICV \leq 30% |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SW | |
| VIII. | Laboratory control samples | SW | LCS 10 |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/RL/LOQ/LODs | SW | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | SW | |
| XVI. | Field duplicates | SW | D = 1, 2 |
| XVII. | Field blanks | SW | RB = 12 FB = 13 |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

*** level N Sediment*

| | | | | | | | |
|----|-------------------|---------------|----|--------------------|----|------------------------------|----|
| 1 | MS001-SS-120515 | <i>P</i> | 11 | MS009-SS-120515 | 21 | <i>MB-05221</i> \checkmark | 31 |
| 2 | MS101-SS-120515 | <i>D</i> | 12 | MS-SSRB-120515 | 22 | <i>MB-05211</i> \checkmark | 32 |
| 3 | MS002-SS-120515 | ** | 13 | MS-SSFB-120515 | 23 | | 33 |
| 4 | MS003-SS-120515 | | 14 | MS007-SS-120515MS | 24 | | 34 |
| 5 | MS004-SS-120515 | | 15 | MS007-SS-120515MSD | 25 | | 35 |
| 6 | MS005-SS-120515 | | 16 | | 26 | | 36 |
| 7 | MS006-SS-120515 | | 17 | | 27 | | 37 |
| 8 | MS006-SS-120515DL | | 18 | | 28 | | 38 |
| 9 | MS007-SS-120515 | | 19 | | 29 | | 39 |
| 10 | MS008-SS-120515 | | 20 | | 30 | | 40 |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

| | | | | |
|---------------------------------|-------------------------------|---------------------------------|---------------------------------|--|
| A. Phenol | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol | III. Benzo(a)pyrene |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene | T. 4-Chloroaniline | II. 4-Nitrophenol | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene | JJ. Dibenzofuran | YY. Fluoranthene | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine | Y. 2,4,6-Trichlorophenol | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. 1-Methylnaphthalene |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1) | FFF. Di-n-octylphthalate | UUU. <i>Retene</i> |
| N. 2-Nitrophenol | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. <i>total - Benzo(b)fluoranthene</i> |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

| # | Date | MS/MSD ID | Compound | MS %R (Limits) | MSD %R (Limits) | RPD (Limits) | Associated Samples | Qualifications |
|---|------|-----------|----------|----------------|-----------------|--------------|--------------------|----------------|
| | | 14 / IC | A | 26.8 (50-150) | 23.2 (50-150) | () | 9 | J/US/A |
| | | | I | 8.1 () | -1.6 () | () | | J/R/A |
| | | | PPP | () | 47.0 () | () | | J/US/A |
| | | | S | 0 () | 0 () | () | | NQ * |
| | | | W | 48.4 () | 48.8 () | () | | J/US/A |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |
| | | | | () | () | () | | |

| | Compound | QC Limits (Soil) | RPD (Soil) | QC Limits (Water) | RPD (Water) | | Compound | QC Limits (Soil) | RPD (Soil) | QC Limits (Water) | RPD (Water) |
|----|----------------------------|------------------|------------|-------------------|-------------|-----|--------------------|------------------|------------|-------------------|-------------|
| A. | Phenol | 26-90% | < 35% | 12-110% | < 42% | GG. | Acenaphthene | 31-137% | < 19% | 46-118% | < 31% |
| C. | 2-Chlorophenol | 25-102% | < 50% | 27-123% | < 40% | II. | 4-Nitrophenol | 11-114% | < 50% | 10-80% | < 50% |
| E. | 1,4-Dichlorobenzene | 28-104% | < 27% | 36-97% | < 28% | KK. | 2,4-Dinitrotoluene | 28-89% | < 47% | 24-96% | < 38% |
| J. | N-Nitroso-di-n-propylamine | 41-126% | < 38% | 41-116% | < 38% | TT. | Pentachlorophenol | 17-109% | < 47% | 9-103% | < 50% |
| R. | 1,2,4-Trichlorobenzene | 38-107% | < 23% | 39-98% | < 28% | ZZ. | Pyrene | 35-142% | < 36% | 26-127% | < 31% |
| V. | 4-Chloro-3-methylphenol | 26-103% | < 33% | 23-97% | < 42% | | | | | | |

* Percent Error > 4X Spike amt

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GC MS Semivolatiles (EPA SW 846 Method 8270D)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/kg) | | (≤50) |
|----------|-----------------------|------|-------|
| | 1 | 2 | RPD |
| A | 300 | 400 | 29 |
| I | 1200 | 1600 | 29 |
| PPP | 390 | 640 | 49 |
| S | 1100 | 1800 | 48 |
| W | 170 | 270 | 45 |
| DD | 74 | 130 | 55 |
| GG | 110 | 160 | 37 |
| JJ | 180 | 280 | 43 |
| NN | 120 | 170 | 34 |
| TT | 600U | 160 | 200 |
| UU | 690 | 1200 | 54 |
| WW | 42 | 57 | 30 |
| VV | 140 | 180 | 25 |
| YY | 660 | 970 | 38 |
| ZZ | 580 | 910 | 44 |
| CCC | 160 | 170 | 6 |
| EEE | 140 | 120 | 15 |
| DDD | 430 | 400 | 7 |
| III | 260 | 270 | 4 |
| JJJ | 200 | 230 | 14 |
| KKK | 57 | 54 | 5 |
| LLL | 270 | 330 | 20 |
| UUU | 74 | 100 | 30 |
| VVV | 570 | 640 | 12 |

LDC #: 27826 A2

VALIDATION FINDINGS WORKSHEET Field Blanks

Page: 1 of 1
Reviewer: JV6
2nd Reviewer: OR

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L Associated sample units: ug/kg

Sampling date: 5/15/12

Field blank type: (circle one) Field Blank / Rinsate / Other: RB Associated Samples: All Sediments (MD)

| Compound | <u>RB</u> Blank ID | FB | Sample Identification | | | | | | | |
|----------|--------------------|-----|-----------------------|--|--|--|--|--|--|--|
| | 12 | 13 | | | | | | | | |
| CC | 0.9 | 0.8 | | | | | | | | |
| XX | " | 3.7 | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

Blank units: _____ Associated sample units: _____

Sampling date: _____

Field blank type: (circle one) _____ / Rinsate / Other: _____ Associated Samples: _____

| Compound | Blank ID | Sample Identification | | | | | | | | |
|----------|----------|-----------------------|--|--|--|--|--|--|--|--|
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CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment/Water
Parameters: Chlorinated Pesticides
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): UU52/UU62

Sample Identification

| | |
|-------------------|--------------------|
| MS001-SS-120515 | MS-SSRB-120515 |
| MS001-SS-120515DL | MS-SSFB-120515 |
| MS101-SS-120515 | MS002-SS-120515MS |
| MS101-SS-120515DL | MS002-SS-120515MSD |
| MS002-SS-120515 | |
| MS002-SS-120515DL | |
| MS003-SS-120515 | |
| MS003-SS-120515DL | |
| MS004-SS-120515 | |
| MS004-SS-120515DL | |
| MS005-SS-120515 | |
| MS005-SS-120515DL | |
| MS006-SS-120515 | |
| MS006-SS-120515DL | |
| MS007-SS-120515 | |
| MS007-SS-120515DL | |
| MS008-SS-120515 | |
| MS008-SS-120515DL | |
| MS009-SS-120515 | |
| MS009-SS-120515DL | |

Introduction

This data review covers 22 sediment samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

| Date | Standard | Column | Compound | %D | Associated Samples | Flag | A or P |
|---------|----------|----------|----------|------|--|---|--------|
| 5/26/12 | INDAE | STX-CLP1 | 4,4'-DDE | 26.6 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | J (all detects) UJ (all non-detects) | A |
| 5/26/12 | INDAE | STX-CLP2 | 4,4'-DDT | 40.9 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | J (all detects) UJ (all non-detects) | A |

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% with the following exceptions:

| Date | Standard ID | Column | Compound | %BD | Associated Samples | Affected Compounds | Flag | A or P |
|---------|-------------|----------|----------|------|--|----------------------------------|---|--------|
| 5/26/12 | DS | STX-CLP1 | 4,4'-DDT | 27.5 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | 4,4'-DDE 4,4'-DDD 4,4'-DDT | J (all detects) J (all detects) J (all detects) | P |
| 5/26/12 | DS | STX-CLP2 | 4,4'-DDT | 40.6 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | 4,4'-DDE 4,4'-DDD 4,4'-DDT | J (all detects) J (all detects) J (all detects) | P |

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were rejected as follows:

| Sample | Compound | Flag | A or P |
|--|-------------------|------|--------|
| MS001-SS-120515DL MS101-SS-120515DL MS002-SS-120515DL MS003-SS-120515DL MS004-SS-120515DL MS005-SS-120515DL MS006-SS-120515DL MS007-SS-120515DL MS008-SS-120515DL MS009-SS-120515DL | All TCL compounds | R | A |

Due to calibration and 4,4'-DDT breakdown %D problems, data were qualified as estimated in four samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 and samples MS001-SS-120515DL and MS101-SS-120515DL were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------|-----------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| beta-BHC | 14 | 14 | 0 (≤50) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|---------------|-----------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Dieldrin | 9.9 | 9.9 | 0 (≤50) |
| 4,4'-DDE | 12 | 12 | 0 (≤50) |
| 4,4'-DDD | 13 | 13 | 0 (≤50) |
| 4,4'-DDT | 19 | 19 | 0 (≤50) |
| Endrin ketone | 12 | 12 | 0 (≤50) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|---------------|-----------------------|-------------------|--------------|
| | MS001-SS-120515DL | MS101-SS-120515DL | |
| beta-BHC | 140 | 140 | 0 (≤50) |
| Dieldrin | 99 | 99 | 0 (≤50) |
| 4,4'-DDE | 120 | 120 | 0 (≤50) |
| 4,4'-DDD | 130 | 130 | 0 (≤50) |
| 4,4'-DDT | 190 | 190 | 0 (≤50) |
| Endrin ketone | 120 | 120 | 0 (≤50) |

XVI. Field Blanks

Sample MS-SSRB-120515 was identified as a rinsate blank. No chlorinated pesticide contaminants were found.

Sample MS-SSFB-120515 was identified as a field blank. No chlorinated pesticide contaminants were found.

**Jeld-Wen Maulsby Marsh
Chlorinated Pesticides - Data Qualification Summary - SDG UU52/UU62**

| SDG | Sample | Compound | Flag | A or P | Reason |
|-----------|--|----------------------------------|--|--------|----------------------------------|
| UU52/UU62 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | 4,4'-DDE 4,4'-DDT | J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects) | A | Continuing calibration (%D) |
| UU52/UU62 | MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | 4,4'-DDE 4,4'-DDD 4,4'-DDT | J (all detects) J (all detects) J (all detects) | P | Continuing calibration (PEM %BD) |
| UU52/UU62 | MS001-SS-120515DL MS101-SS-120515DL MS002-SS-120515DL MS003-SS-120515DL MS004-SS-120515DL MS005-SS-120515DL MS006-SS-120515DL MS007-SS-120515DL MS008-SS-120515DL MS009-SS-120515DL | All TCL compounds | R | A | Overall assessment of data |

**Jeld-Wen Maulsby Marsh
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A3a

VALIDATION COMPLETENESS WORKSHEET

Date: 6/20/12

SDG #: UU52/UU62

Stage 2B ~~A~~

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: JVG

2nd Reviewer: [Signature]

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|---------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II. | GC/ECD Instrument Performance Check | SW | (See CCV) |
| III. | Initial calibration | A | 2 RSD $\leq 20\%$ r^2 |
| IV. | Continuing calibration/ICV | SW | CCV/ICV $\leq 20\%$ |
| V. | Blanks | A | |
| VI. | Surrogate spikes / IS | SW | |
| VII. | Matrix spike/Matrix spike duplicates | SW | (100% DL - NR) |
| VIII. | Laboratory control samples | A | LCB |
| IX. | Regional quality assurance and quality control | N | |
| X. | Florisil cartridge check | N | |
| XI. | GPC Calibration | N | |
| XII. | Target compound identification | X A | |
| XIII. | Compound quantitation/RL/LOQ/LODs | X A | |
| XIV. | Overall assessment of data | SW | |
| XV. | Field duplicates | ND | $D_1 = 1, 3$ $D_2 = 2, 4$ |
| XVI. | Field blanks | ND | RB = 21 FB = 22 |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

** level IV Sediment + Water

| | | | | | | | |
|----|---------------------------------|---------|-------------------|---------|-----------------------------|---------|-----------|
| 1 | MS001-SS-120515 D_1 | 11 | MS005-SS-120515 | 21 $^+$ | MS-SSRB-120515 W | 31 $^+$ | MB-052212 |
| 2 | MS001-SS-120515DL D_2 | 12 | MS005-SS-120515DL | 22 $^+$ | MS-SSFB-120515 \downarrow | 32 $^+$ | MB-051812 |
| 3 | MS101-SS-120515 D_1 | 13 $^+$ | MS006-SS-120515 | 23 | MS002-SS-120515MS | 33 | |
| 4 | MS101-SS-120515DL D_2 | 14 $^-$ | MS006-SS-120515DL | 24 | MS002-SS-120515MSD | 34 | |
| 5 | MS002-SS-120515 ** | 15 | MS007-SS-120515 | 25 | | 35 | |
| 6 | MS002-SS-120515DL ** | 16 | MS007-SS-120515DL | 26 | | 36 | |
| 7 | MS003-SS-120515 | 17 | MS008-SS-120515 | 27 | | 37 | |
| 8 | MS003-SS-120515DL | 18 | MS008-SS-120515DL | 28 | | 38 | |
| 9 | MS004-SS-120515 | 19 | MS009-SS-120515 | 29 | | 39 | |
| 10 | MS004-SS-120515DL | 20 | MS009-SS-120515DL | 30 | | 40 | |

Notes:

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

| | | | | |
|-----------------------|-----------------------|------------------------|-----------------------|---------------------------|
| A. alpha-BHC | <u>I</u> Dieldrin | <u>Q</u> Endrin ketone | Y. Aroclor-1242 | GG. Chlordane |
| <u>B</u> beta-BHC | <u>J</u> 4,4'-DDE | R. Endrin aldehyde | Z. Aroclor-1248 | HH. Chlordane (Technical) |
| C. delta-BHC | K. Endrin | S. alpha-Chlordane | AA. Aroclor-1254 | II. Aroclor 1262 |
| D. gamma-BHC | L. Endosulfan II | T. gamma-Chlordane | BB. Aroclor-1260 | JJ. Aroclor 1268 |
| E. Heptachlor | <u>M</u> 4,4'-DDD | U. Toxaphene | CC. 2,4'-DDD | KK. Oxychlordane |
| F. Aldrin | N. Endosulfan sulfate | V. Aroclor-1016 | DD. 2,4'-DDE | LL. trans-Nonachlor |
| G. Heptachlor epoxide | <u>O</u> 4,4'-DDT | W. Aroclor-1221 | EE. 2,4'-DDT | MM. cis-Nonachlor |
| H. Endosulfan I | P. Methoxychlor | X. Aroclor-1232 | FF. Hexachlorobenzene | NN. |

Notes: _____

LDC #: 27826 A3a

VALIDATION FINDINGS WORKSHEET Surrogate Spikes

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: CR

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were surrogates spiked into all samples, standards and blanks?
 Y (N) N/A Did all surrogate percent recoveries (%R) meet the QC limits?

| # | Date | Sample ID | Column | Surrogate Compound | %R (Limits) | Qualifications |
|---|------|---------------------|--------|--------------------|--------------|----------------|
| | | All except 13 | NS | A | DO (207-142) | No qual |
| | | | | B | ↓ (22-156) | |
| | | (DL = 100X - 5000X) | | | () | |
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| Letter Designation | Surrogate Compound | Recovery QC Limits (Soil) | Recovery QC Limits (Water) | Comments |
|--------------------|----------------------|---------------------------|----------------------------|----------|
| A | Tetrachloro-m-xylene | | | |
| B | Decachlorobiphenyl | | | |

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

N NA
 Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/kg) | | (≤ 50) RPD |
|----------|-----------------------|-----|-------------------------------|
| | 1 | 3 | |
| B | 14 | 14 | 0 |
| I | 9.9 | 9.9 | 0 |
| J | 12 | 12 | 0 |
| M | 13 | 13 | 0 |
| O | 19 | 19 | 0 |
| Q | 12 | 12 | 0 |

| Compound | Concentration (ug/kg) | | (≤ 50) RPD |
|----------|-----------------------|-----|-------------------------------|
| | 2 | 4 | |
| B | 140 | 140 | 0 |
| I | 99 | 99 | 0 |
| J | 120 | 120 | 0 |
| M | 130 | 130 | 0 |
| O | 190 | 190 | 0 |
| Q | 120 | 120 | 0 |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment/Water
Parameters: Polychlorinated Biphenyls
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): UU52/UU62

Sample Identification

MS001-SS-120515
MS101-SS-120515
MS002-SS-120515
MS003-SS-120515
MS004-SS-120515
MS005-SS-120515
MS006-SS-120515
MS006-SS-120515DL
MS007-SS-120515
MS008-SS-120515
MS009-SS-120515
MS-SSRB-120515
MS-SSFB-120515
MS009-SS-120515MS
MS009-SS-120515MSD

Introduction

This data review covers 13 sediment samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

| Sample | Column | Surrogate | %R (Limits) | Compound | Flag | A or P |
|----------------|---------------|--------------------|---------------|-------------------|---|--------|
| MS-SSRB-120515 | Not specified | Decachlorobiphenyl | 22.5 (29-118) | All TCL compounds | J (all detects) UJ (all non-detects) | P |

All internal standard data were reviewed and within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to surrogate %R problems, data were qualified as estimated in one samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|--------------|-----------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Aroclor 1248 | 22 | 17 | 26 (≤50) |
| Aroclor 1254 | 44 | 37 | 17 (≤50) |

XVI. Field Blanks

Sample MS-SSRB-120515 was identified as a rinsate blank. No polychlorinated biphenyl contaminants were found.

Sample MS-SSFB-120515 was identified as a field blank. No polychlorinated biphenyl contaminants were found.

**Jeld-Wen Maulsby Marsh
Polychlorinated Biphenyls - Data Qualification Summary - SDG UU52/UU62**

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------------|----------------|-------------------|---|---------------|-----------------------|
| UU52/ UU62 | MS-SSRB-120515 | All TCL compounds | J (all detects) UJ (all non-detects) | P | Surrogate spikes (%R) |

**Jeld-Wen Maulsby Marsh
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG
UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A3b

VALIDATION COMPLETENESS WORKSHEET

Date: 6/20/12

SDG #: UU52/UU62

Stage 2B *for*

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: JVG

2nd Reviewer: CR

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|------|-------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II. | GC/ECD Instrument Performance Check | N | |
| III. | Initial calibration | A | ? RSD $\leq 20\%$ |
| IV. | Continuing calibration/ICV | A | CV/1W $\leq 20\%$ |
| V. | Blanks | A | |
| VI. | Surrogate spikes / IS | SW/A | |
| VII. | Matrix spike/Matrix spike duplicates | A | |
| VIII. | Laboratory control samples | A | LOS/D |
| IX. | Regional quality assurance and quality control | N | |
| X. | Florisil cartridge check | N | |
| XI. | GPC Calibration | N | |
| XII. | Target compound identification | N | |
| XIII. | Compound quantitation/RL/LOQ/LODs | SW/N | |
| XIV. | Overall assessment of data | A | |
| XV. | Field duplicates | SW | D = 1, 2 |
| XVI. | Field blanks | ND | RB = 12 FB = 13 |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Water (2) + Sediment

| | | | | | | |
|----|--------------------|----|--------------------|------|--------------|------|
| 1 | MS001-SS-120515 | 11 | MS009-SS-120515 | 21 | MB - 05 2212 | 31 |
| 2 | MS101-SS-120515 | 12 | MS-SSRB-120515 | W 22 | MB - 05 2212 | W 32 |
| 3 | MS002-SS-120515 ** | 13 | MS-SSFB-120515 | ↓ 23 | | 33 |
| 4 | MS003-SS-120515 | 14 | MS009-SS-120515MS | 24 | | 34 |
| 5 | MS004-SS-120515 | 15 | MS009-SS-120515MSD | 25 | | 35 |
| 6 | MS005-SS-120515 | 16 | | 26 | | 36 |
| 7 | MS006-SS-120515 | 17 | | 27 | | 37 |
| 8 | MS006-SS-120515DL | 18 | | 28 | | 38 |
| 9 | MS007-SS-120515 | 19 | | 29 | | 39 |
| 10 | MS008-SS-120515 | 20 | | 30 | | 40 |

Notes:

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GC PCBs (EPA SW 846 Method 8082)

| Analyte | Concentration (ug/kg) | | RPD (≤50%) |
|--------------|-----------------------|----|---------------|
| | 1 | 2 | |
| Aroclor 1248 | 22 | 17 | 26 |
| Aroclor 1254 | 44 | 37 | 17 |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment/Water
Parameters: Metals
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): UU52/UU62

Sample Identification

MS001-SS-120515
MS101-SS-120515
MS002-SS-120515
MS003-SS-120515
MS004-SS-120515
MS005-SS-120515
MS006-SS-120515
MS007-SS-120515
MS008-SS-120515
MS009-SS-120515
MS-SSRB-120515
MS-SSFB-120515
MS002-SS-120515MS
MS002-SS-120515DUP
MS-SSRB-120515MS
MS-SSRB-120515DUP

Introduction

This data review covers 12 sediment samples and 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010C, 7471A, and 7470A, and EPA 200.8 for Metals. The metals analyzed were Antimony, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

The initial and continuing calibrations were performed at the required frequency.

The calibration standards criteria were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metals contaminants were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Analyte | %R (Limits) | Flag | A or P |
|---|----------|--------------|---|--------|
| MS002-SS-120515MS (All sediment samples in SDG UU52/UU62) | Antimony | 9.8 (75-125) | J (all detects) UJ (all non-detects) | A |

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS %R problems, data were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Arsenic | 33 | 33 | 0 (≤50) |
| Cadmium | 3.2 | 3.4 | 6 (≤50) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|----------|-----------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Chromium | 37 | 38 | 3 (≤50) |
| Copper | 129 | 125 | 3 (≤50) |
| Lead | 170 | 170 | 0 (≤50) |
| Mercury | 0.4 | 0.4 | 0 (≤50) |
| Nickel | 50 | 42 | 17 (≤50) |
| Zinc | 400 | 374 | 7 (≤50) |

XV. Field Blanks

Sample MS-SSRB-120515 was identified as a rinsate blank. No metal contaminants were found.

Sample MS-SSFB-120515 was identified as a field blank. No metal contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration (ug/L) |
|----------------|---------|----------------------|
| MS-SSFB-120515 | Copper | 7 |

**Jeld-Wen Maulsby Marsh
Metals - Data Qualification Summary - SDG UU52/UU62**

| SDG | Sample | Analyte | Flag | A or P | Reason |
|-----------|--|----------|---|--------|-------------------|
| UU52/UU62 | MS001-SS-120515 MS101-SS-120515 MS002-SS-120515 MS003-SS-120515 MS004-SS-120515 MS005-SS-120515 MS006-SS-120515 MS007-SS-120515 MS008-SS-120515 MS009-SS-120515 | Antimony | J (all detects) UJ (all non-detects) | A | Matrix spike (%R) |

**Jeld-Wen Maulsby Marsh
Metals - Laboratory Blank Data Qualification Summary - SDG UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A4

VALIDATION COMPLETENESS WORKSHEET

Date: 6/19/12

SDG #: UU52/UU62

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources Inc.

Reviewer: CR

2nd Reviewer: W

METHOD: Metals (EPA SW 846 Method 6010C/200.8/7471A/7470)^A, EPA 200.8

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----------|-------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II. | ICP/MS Tune | A | |
| III. | Calibration | A | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | A | |
| VI. | Matrix Spike Analysis | SW MS | |
| VII. | Duplicate Sample Analysis | A DP | |
| VIII. | Laboratory Control Samples (LCS) | A LCS | |
| IX. | Internal Standard (ICP-MS) | N | Not reviewed |
| X. | Furnace Atomic Absorption QC | N | Not utilized |
| XI. | ICP Serial Dilution | N | Not performed |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | A | |
| XIV. | Field Duplicates | SW (1,2) | |
| XV. | Field Blanks | SW | FB=12 ; FB=13 |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Sediment/Water

| | | | | | | | |
|----|------------------------------|----|--------------------|----|---|----|--|
| 1 | MS001-SS-120515 | 11 | MS009-SS-120515 | 21 | | 31 | |
| 2 | MS101-SS-120515 | 12 | MS-SSRB-120515 | 22 | W | 32 | |
| 3 | MS002-SS-120515 | 13 | MS-SSFB-120515 | 23 | J | 33 | |
| 4 | MS003-SS-120515 | 14 | MS002-SS-120515MS | 24 | | 34 | |
| 5 | MS004-SS-120515 | 15 | MS002-SS-120515DUP | 25 | | 35 | |
| 6 | MS005-SS-120515 | 16 | MS-SSRB-120515MS | 26 | W | 36 | |
| 7 | MS006-SS-120515 | 17 | MS-SSRB-120515DUP | 27 | J | 37 | |
| 8 | MS006-SS-120515DL | 18 | | 28 | | 38 | |
| 9 | MS007-SS-120515 | 19 | | 29 | | 39 | |
| 10 | MS008-SS-120515 | 20 | | 30 | | 40 | |

Notes:

Sample Specific Element Reference

All circled elements are applicable to each sample.

| Sample ID | Matrix | Target Analyte List (TAL) | |
|-----------|-----------------|---|---|
| 1-B | | Al, (Sb, As), Ba, Be, (Cd), Ca, (Cr), Co, (Cu), Fe, (Pb), Mg, Mn, (Hg, Ni), K, Se, (Ag), Na, Ti, V, (Zn), Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| QC 14-17 | | Al, (Sb, As), Ba, Be, (Cd), Ca, (Cr), Co, (Cu), Fe, (Pb), Mg, Mn, (Hg, Ni), K, Se, (Ag), Na, Ti, V, (Zn), Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| | Analysis Method | | |
| | ICP | | Al, Sb, As, Ba, Be, Cd, Ca, (Cr), Co, (Cu), Fe, (Pb), Mg, Mn, Hg, (Ni), K, Se, Ag, Na, Ti, V, (Zn), Mo, B, Sn, Ti, U, |
| ICP-MS | | Al, (Sb, As), Ba, Be, (Cd), Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, (Ag), Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |
| GFAA | | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U, | |

Comments: Mercury by CVAA if performed

LDC#: 27826A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6010B/7000)

| Analyte | Concentration (mg/Kg) | | RPD (≤50) | |
|----------|-----------------------|-----|--------------|--|
| | 1 | 2 | | |
| Arsenic | 33 | 33 | 0 | |
| Cadmium | 3.2 | 3.4 | 6 | |
| Chromium | 37 | 38 | 3 | |
| Copper | 129 | 125 | 3 | |
| Lead | 170 | 170 | 0 | |
| Mercury | 0.4 | 0.4 | 0 | |
| Nickel | 50 | 42 | 17 | |
| Zinc | 400 | 374 | 7 | |

V:\FIELD DUPLICATES\FD_inorganic\27826A4.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 19, 2012
Matrix: Sediment
Parameters: Wet Chemistry
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): UU52/UU62

Sample Identification

| | |
|-----------------|--------------------|
| MS001-SS-120515 | MS002-SS-120515DUP |
| MS101-SS-120515 | MS002-SS-120515TRP |
| MS002-SS-120515 | MS110-SS-120515MS |
| MS003-SS-120515 | MS110-SS-120515DUP |
| MS004-SS-120515 | MS110-SS-120515TRP |
| MS005-SS-120515 | |
| MS006-SS-120515 | |
| MS007-SS-120515 | |
| MS008-SS-120515 | |
| MS009-SS-120515 | |
| MS010-SS-120515 | |
| MS110-SS-120515 | |
| MS011-SS-120515 | |
| MS012-SS-120515 | |
| MS013-SS-120515 | |
| MS014-SS-120515 | |
| MS015-SS-120515 | |
| MS016-SS-120515 | |
| MS017-SS-120515 | |
| MS018-SS-120515 | |

Introduction

This data review covers 25 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 350.1M for Ammonia as Nitrogen, EPA Method 376.2 for Sulfide, Standard Method 2540B for Total Solids and Preserved Total Solids, EPA SW 846 Method 9060M for Total Organic Carbon, and PSEP for Grain Size.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates/Triplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

Triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

X. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 and samples MS010-SS-120515 and MS110-SS-120515 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD (Limits) |
|------------------------|-----------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Total Solids | 10.20% | 10.20% | 0 (≤50) |
| Preserved Total Solids | 9.70% | 9.70% | 0 (≤50) |
| Ammonia as N | 132 mg/Kg | 130 mg/Kg | 2 (≤50) |
| Sulfide | 2960 mg/Kg | 3100 mg/Kg | 5 (≤50) |
| Total Organic Carbon | 19.6% | 18.4% | 6 (≤50) |

| Analyte | Concentration | | RPD (Limits) |
|------------------------|-----------------|-----------------|--------------|
| | MS010-SS-120515 | MS110-SS-120515 | |
| Total Solids | 10.60% | 10.40% | 2 (≤50) |
| Preserved Total Solids | 10.50% | 10.70% | 2 (≤50) |
| Ammonia as N | 100 mg/Kg | 95.6 mg/Kg | 4 (≤50) |
| Sulfide | 2030 mg/Kg | 1750 mg/Kg | 15 (≤50) |
| Total Organic Carbon | 11.8% | 15.7% | 28 (≤50) |

| Sieve Size | Percent Finer (%) | | RPD (Limits) |
|---------------------------|-------------------|-----------------|--------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Gravel: 2000 um | 100.0 | 88.2 | 13 (≤50) |
| Very Coarse Sand: 1000 um | 75.6 | 71.2 | 6 (≤50) |
| Coarse Sand: 500 um | 68.4 | 63.3 | 8 (≤50) |
| Medium Sand: 250 um | 63.9 | 58.5 | 9 (≤50) |
| Fine Sand: 125 um | 60.9 | 55.3 | 10 (≤50) |
| Very Fine Sand: 63 um | 58.8 | 52.9 | 11 (≤50) |
| Slit: 31um | 57.5 | 51.8 | 10 (≤50) |
| Slit: 15.6um | 44.4 | 40.3 | 10 (≤50) |
| Slit: 7.80um | 33.1 | 30.4 | 9 (≤50) |
| Slit: 3.9um | 20.6 | 19.2 | 7 (≤50) |
| Clay: 2 um | 17.6 | 15.9 | 10 (≤50) |
| Clay: 1 um | 14.2 | 12.5 | 13 (≤50) |

| Sieve Size | Percent Finer (%) | | RPD (Limits) |
|---------------------------|-------------------|-----------------|--------------|
| | MS010-SS-120515 | MS110-SS-120515 | |
| Gravel: 4750 um | 97.3 | 100.0 | 3 (≤50) |
| Gravel: 2000 um | 88.6 | 97.4 | 9 (≤50) |
| Very Coarse Sand: 1000 um | 79.1 | 83.2 | 5 (≤50) |
| Coarse Sand: 500 um | 72.1 | 73.8 | 2 (≤50) |
| Medium Sand: 250 um | 66.3 | 67.4 | 2 (≤50) |
| Fine Sand: 125 um | 61.6 | 62.3 | 1 (≤50) |
| Very Fine Sand: 63 um | 57.9 | 58.5 | 1 (≤50) |
| Slit: 31um | 49.8 | 56.1 | 12 (≤50) |

| Sieve Size | Percent Finer (%) | | RPD (Limits) |
|--------------|-------------------|-----------------|--------------|
| | MS010-SS-120515 | MS110-SS-120515 | |
| Slit: 15.6um | 35.3 | 46.6 | 28 (≤50) |
| Slit: 7.80um | 27.2 | 37.1 | 31 (≤50) |
| Slit: 3.9um | 18.4 | 21.7 | 16 (≤50) |
| Clay: 2 um | 15.5 | 16.1 | 4 (≤50) |
| Clay: 1 um | 11.6 | 12.0 | 3 (≤50) |

XI. Field Blanks

No field blanks were identified in this SDG.

**Jeld-Wen Maulsby Marsh
Wet Chemistry - Data Qualification Summary - SDG UU52/UU62**

No Sample Data Qualified in this SDG

**Jeld-Wen Maulsby Marsh
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A6

VALIDATION COMPLETENESS WORKSHEET

Date: 6-19-12

SDG #: UU52/UU62

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resource Inc

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: (Analyte) Ammonia-N (EPA Method 350.1), Sulfide (EPA Method 376.2), Total Solids, Preserved Total Solids (SM2540B), Total Organic Carbon (EPA SW846 Method 9060M), Grain Size (PSEP)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Blanks | A | |
| V | Matrix Spike/Matrix Spike Duplicates | A | MS |
| VI. | Duplicates / Triplicates | A | DUP, TRP |
| VII. | Laboratory control samples | A | LCS |
| VIII. | Sample result verification | N | |
| IX. | Overall assessment of data | A | |
| X. | Field duplicates | SW | (1,2), (14,15) |
| XI | Field blanks | N | B=12, FB=13 |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Sediment tubes

| | | | | | | | |
|--------------|------------------------------|---------------|-----------------------------|----|---------------------------|----|--|
| 1 | MS001-SS-120515 | 11 | MS009-SS-120515 | 21 | MS016-SS-120515 | 31 | |
| 2 | MS101-SS-120515 | 12 | MS-SSRB-120515 W | 22 | MS017-SS-120515 | 32 | |
| 3 | MS002-SS-120515 | 13 | MS-SSFB-120515 W | 23 | MS018-SS-120515 | 33 | |
| 4 | MS003-SS-120515 | 14 | MS010-SS-120515 | 24 | MS002-SS-120515DUP | 34 | |
| 5 | MS004-SS-120515 | 15 | MS110-SS-120515 | 25 | MS002-SS-120515TRP | 35 | |
| 6 | MS005-SS-120515 | 16 | MS011-SS-120515 | 26 | MS110-SS-120515MS | 36 | |
| 7 | MS006-SS-120515 | 17 | MS012-SS-120515 | 27 | MS110-SS-120515MSD DUP | 37 | |
| 8 | MS006-SS-120515DL | 18 | MS013-SS-120515 | 28 | MS110-SS-120515DUP TRP | 38 | |
| 9 | MS007-SS-120515 | 19 | MS014-SS-120515 | 29 | | 39 | |
| 10 | MS008-SS-120515 | 20 | MS015-SS-120515 | 30 | | 40 | |

Notes: _____

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics: Method See Cover

| Analyte | Concentration (mg/Kg) | | RPD (≤50) | |
|----------------------------|-----------------------|-------|--------------|--|
| | 1 | 2 | | |
| Total Solids (%) | 10.20 | 10.20 | 0 | |
| Preserved Total Solids (%) | 9.70 | 9.70 | 0 | |
| Ammonia as N | 132 | 130 | 2 | |
| Sulfide | 2960 | 3100 | 5 | |
| Total Organic Carbon (%) | 19.6 | 18.4 | 6 | |

| Analyte | Concentration (mg/Kg) | | RPD (≤50) | |
|----------------------------|-----------------------|-------|--------------|--|
| | 14 | 15 | | |
| Total Solids (%) | 10.60 | 10.40 | 2 | |
| Preserved Total Solids (%) | 10.50 | 10.70 | 2 | |
| Ammonia as N | 100 | 95.6 | 4 | |
| Sulfide | 2030 | 1750 | 15 | |
| Total Organic Carbon (%) | 11.8 | 15.7 | 28 | |

LDC# 27826A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Inorganics: Method See Cover

| Sieve Size | Percent Finer (%) | | RPD (≤50) | |
|---------------------------|-------------------|------|--------------|--|
| | 1 | 2 | | |
| Gravel: 2000 um | 100.0 | 88.2 | 13 | |
| Very Coarse Sand: 1000 um | 75.6 | 71.2 | 6 | |
| Coarse Sand: 500 um | 68.4 | 63.3 | 8 | |
| Medium Sand: 250 um | 63.9 | 58.5 | 9 | |
| Fine Sand: 125 um | 60.9 | 55.3 | 10 | |
| Very Fine Sand: 63 um | 58.8 | 52.9 | 11 | |
| Slit: 31um | 57.5 | 51.8 | 10 | |
| Slit: 15.6um | 44.4 | 40.3 | 10 | |
| Slit: 7.80um | 33.1 | 30.4 | 9 | |
| Slit: 3.9um | 20.6 | 19.2 | 7 | |
| Clay: 2 um | 17.6 | 15.9 | 10 | |
| Clay: 1 um | 14.2 | 12.5 | 13 | |

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics: Method See Cover

| Sieve Size | Percent Finer (%) | | RPD (≤50) | |
|---------------------------|-------------------|-------|--------------|--|
| | 14 | 15 | | |
| Gravel: 4750 um | 97.3 | 100.0 | 3 | |
| Gravel: 2000 um | 88.6 | 97.4 | 9 | |
| Very Coarse Sand: 1000 um | 79.1 | 83.2 | 5 | |
| Coarse Sand: 500 um | 72.1 | 73.8 | 2 | |
| Medium Sand: 250 um | 66.3 | 67.4 | 2 | |
| Fine Sand: 125 um | 61.6 | 62.3 | 1 | |
| Very Fine Sand: 63 um | 57.9 | 58.5 | 1 | |
| Slit: 31um | 49.8 | 56.1 | 12 | |
| Slit: 15.6um | 35.3 | 46.6 | 28 | |
| Slit: 7.80um | 27.2 | 37.1 | 31 | |
| Slit: 3.9um | 18.4 | 21.7 | 16 | |
| Clay: 2 um | 15.5 | 16.1 | 4 | |
| Clay: 1 um | 11.6 | 12.0 | 3 | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment/Water
Parameters: Total Petroleum Hydrocarbons as Diesel
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): UU52/UU62

Sample Identification

MS001-SS-120515
MS101-SS-120515
MS002-SS-120515
MS003-SS-120515
MS004-SS-120515
MS005-SS-120515
MS006-SS-120515
MS007-SS-120515
MS008-SS-120515
MS009-SS-120515
MS-SSRB-120515
MS-SSFB-120515
MS008-SS-120515MS
MS008-SS-120515MSD

Introduction

This data review covers 12 sediment samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per NWTPH-Dx for Total Petroleum Hydrocarbons (TPH) as Diesel.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as diesel contaminants were found in the method blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation and RLs

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

XII. Field Duplicates

Samples MS001-SS-120515 and MS101-SS-120515 were identified as field duplicates. No total petroleum hydrocarbons as diesel were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|-----------|-----------------------|-----------------|-----------------|
| | MS001-SS-120515 | MS101-SS-120515 | |
| Diesel | 53 | 54 | 2 (≤ 50) |
| Motor oil | 150 | 140 | 7 (≤ 50) |

XIII. Field Blanks

Sample MS-SSRB-120515 was identified as a rinsate blank. No total petroleum hydrocarbons as diesel contaminants were found.

Sample MS-SSFB-120515 was identified as a field blank. No total petroleum hydrocarbons as diesel contaminants were found.

Jeld-Wen Maulsby Marsh

**Total Petroleum Hydrocarbons as Diesel - Data Qualification Summary - SDG
UU52/UU62**

No Sample Data Qualified in this SDG

Jeld-Wen Maulsby Marsh

**Total Petroleum Hydrocarbons as Diesel - Laboratory Blank Data Qualification
Summary - SDG UU52/UU62**

No Sample Data Qualified in this SDG

LDC #: 27826A8
 SDG #: UU52/UU62
 Laboratory: Analytical Resources Inc.

VALIDATION COMPLETENESS WORKSHEET
 Stage 2B ~~4~~

Date: 6/20/12
 Page: 1 of 1
 Reviewer: SVB
 2nd Reviewer: SW

METHOD: GC TPH as Diesel (NWTPH-Dx)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|------------|--------------------------------|
| I. | Technical holding times | A | Sampling dates: <u>5/15/12</u> |
| II. | Initial calibration | A | <u>2 RCD ≤ 20%</u> |
| III. | Calibration verification | A | <u>CW/1W ≤ 20%</u> |
| IV. | Blanks | A | |
| V. | Surrogate recovery | A | |
| VI. | Matrix spike/Matrix spike duplicates | A | |
| VII. | Laboratory control samples | A | <u>LCS / D</u> |
| VIII. | Target compound identification | N | |
| IX. | Compound quantitation/RL/LOQ/LODs | N | |
| X. | System Performance | N | |
| XI. | Overall assessment of data | <u>ASW</u> | |
| XII. | Field duplicates | <u>SW</u> | <u>D = 12</u> |
| XIII. | Field blanks | <u>ND</u> | <u>RB = 12</u> <u>FB = 13</u> |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Sediment + Water (2)
~~* Level IV~~

| | | | | | | | |
|----|------------------------------|---------------|----|--------------------|-------------|------------------|----|
| 1 | MS001-SS-120515 | <u>D</u> | 11 | MS009-SS-120515 | <u>21</u> | <u>MB-052112</u> | 31 |
| 2 | MS101-SS-120515 | <u>D</u> | 12 | MS-SSRB-120515 | <u>W 22</u> | <u>MB-051812</u> | 32 |
| 3 | MS002-SS-120515 | ** | 13 | MS-SSFB-120515 | <u>23</u> | | 33 |
| 4 | MS003-SS-120515 | | 14 | MS008-SS-120515MS | 24 | | 34 |
| 5 | MS004-SS-120515 | | 15 | MS008-SS-120515MSD | 25 | | 35 |
| 6 | MS005-SS-120515 | | 16 | | 26 | | 36 |
| 7 | MS006-SS-120515 | | 17 | | 27 | | 37 |
| 8 | MS006-SS-120515DL | | 18 | | 28 | | 38 |
| 9 | MS007-SS-120515 | | 19 | | 29 | | 39 |
| 10 | MS008-SS-120515 | | 20 | | 30 | | 40 |

Notes: _____

LDC#: 27826A8

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JV
2nd Reviewer: JR

METHOD: GC TPH as Diesel (Method NWTPH-Dx)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/kg) | | RPD (≤ 50) |
|-----------|-----------------------|-----|----------------------|
| | 1 | 2 | |
| Diesel | 53 | 54 | 2 |
| Motor Oil | 150 | 140 | 7 |

V:\FIELD DUPLICATES\27826A8.wpd

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Jeld-Wen Maulsby Marsh
Collection Date: May 15, 2012
LDC Report Date: June 25, 2012
Matrix: Sediment
Parameters: Extractable Petroleum Hydrocarbons
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): UW85

Sample Identification

MS001-SS-120515
MS002-SS-120515
MS003-SS-120515
MS006-SS-120515
MS001-SS-120515MS
MS001-SS-120515MSD

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per WDOE Interim Method for Extractable Petroleum Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No extractable petroleum hydrocarbons contaminants were found in the method blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation and RLs

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Stage 2B data validation all results are considered valid and usable for all purposes.

XII. Field Duplicates

No field duplicates were identified in this SDG.

XIII. Field Blanks

No field blanks were identified in this SDG.

**Jeld-Wen Maulsby Marsh
Extractable Petroleum Hydrocarbons - Data Qualification Summary - SDG UW85**

No Sample Data Qualified in this SDG

**Jeld-Wen Maulsby Marsh
Extractable Petroleum Hydrocarbons - Laboratory Blank Data Qualification Summary
- SDG UW85**

No Sample Data Qualified in this SDG

LDC #: 27826B7

VALIDATION COMPLETENESS WORKSHEET

Date: 6/20/12

SDG #: UW85

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources Inc.

Reviewer: JVG

EPH WDOE Interim Method

2nd Reviewer: [Signature]

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 5/15/12 |
| II. | Initial calibration | A | 2 RSD $\leq 20\%$ |
| III. | Calibration verification/ICV | A | CV/ICV $\leq 20\%$ |
| IV. | Blanks | A | |
| V. | Surrogate recovery | A | |
| VI. | Matrix spike/Matrix spike duplicates | A | |
| VII. | Laboratory control samples | A | ICS 1b |
| VIII. | Target compound identification | N | |
| IX. | Compound quantitation/RL/LOQ/LODs | N | |
| X. | System Performance | N | |
| XI. | Overall assessment of data | A | |
| XII. | Field duplicates | N | |
| XIII. | Field blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Sediment

| | | | | | |
|----|--------------------|----|-------------|----|----|
| 1 | MS001-SS-120515 | 11 | MP - 060412 | 21 | 31 |
| 2 | MS002-SS-120515 | 12 | | 22 | 32 |
| 3 | MS003-SS-120515 | 13 | | 23 | 33 |
| 4 | MS006-SS-120515 | 14 | | 24 | 34 |
| 5 | MS001-SS-120515MS | 15 | | 25 | 35 |
| 6 | MS001-SS-120515MSD | 16 | | 26 | 36 |
| 7 | | 17 | | 27 | 37 |
| 8 | | 18 | | 28 | 38 |
| 9 | | 19 | | 29 | 39 |
| 10 | | 20 | | 30 | 40 |

Notes: _____

Jeld-Wen Maulsby Marsh - LDC 27826

SDG: UU52

| Analytical Method | | E200.8 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.12 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Arsenic | 5/23/2012 | 33 | Yes | Y | | | | 2 | 0.82 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Cadmium | 5/23/2012 | 3.2 | Yes | Y | | | | 0.9 | 0.11 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.076 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.12 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Cadmium | 5/23/2012 | 2.9 | Yes | Y | | | | 0.9 | 0.11 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Arsenic | 5/23/2012 | 27 | Yes | Y | | | | 2 | 0.81 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.075 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Arsenic | 5/23/2012 | 19 | Yes | Y | | | | 2 | 0.81 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.075 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.12 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Cadmium | 5/23/2012 | 2.2 | Yes | Y | | | | 0.9 | 0.11 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.077 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.13 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Arsenic | 5/23/2012 | 24 | Yes | Y | | | | 2 | 0.84 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Cadmium | 5/23/2012 | 3 | Yes | Y | | | | 1 | 0.12 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Arsenic | 5/23/2012 | 55 | Yes | Y | | | | 2 | 1.0 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Antimony | 5/23/2012 | 3 | Yes | Y | | J | 8 | 2 | 0.15 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.095 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Cadmium | 5/23/2012 | 3 | Yes | Y | | | | 1 | 0.14 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Cadmium | 5/23/2012 | 3 | Yes | Y | | | | 1 | 0.12 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Antimony | 5/23/2012 | 5 | Yes | Y | | J | 8 | 2 | 0.13 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.079 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Arsenic | 5/23/2012 | 80 | Yes | Y | | | | 2 | 0.86 | mg/kg |

SDG: UU52

| Analytical Method | | E200.8 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS007-SS-120515 | 12-8900-UU52H | Antimony | 5/23/2012 | 1 | Yes | N | U | UJ | 8 | 1 | 0.077 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Cadmium | 5/23/2012 | 3.7 | Yes | Y | | | | 0.6 | 0.071 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Arsenic | 5/23/2012 | 28 | Yes | Y | | | | 1 | 0.51 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Silver | 5/23/2012 | 1 | Yes | N | U | | | 1 | 0.047 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Cadmium | 5/23/2012 | 3 | Yes | Y | | | | 0.9 | 0.10 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Arsenic | 5/23/2012 | 27 | Yes | Y | | | | 2 | 0.75 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.11 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.069 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Arsenic | 5/23/2012 | 8 | Yes | Y | | | | 2 | 0.83 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.076 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Cadmium | 5/23/2012 | 2 | Yes | Y | | | | 1 | 0.11 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.12 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Cadmium | 5/23/2012 | 3.4 | Yes | Y | | | | 0.9 | 0.11 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Silver | 5/23/2012 | 2 | Yes | N | U | | | 2 | 0.074 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Antimony | 5/23/2012 | 2 | Yes | N | U | UJ | 8 | 2 | 0.12 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Arsenic | 5/23/2012 | 33 | Yes | Y | | | | 2 | 0.81 | mg/kg |

| Analytical Method | | E350.1M | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Ammonia | 5/21/2012 | 132 | Yes | Y | | | | 1.94 | 0.06000 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Ammonia | 5/21/2012 | 213 | Yes | Y | | | | 5.02 | 0.15000 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Ammonia | 5/21/2012 | 170 | Yes | Y | | | | 2.28 | 0.06000 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Ammonia | 5/21/2012 | 178 | Yes | Y | | | | 4.85 | 0.15000 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Ammonia | 5/21/2012 | 71.1 | Yes | Y | | | | 1.15 | 0.03000 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Ammonia | 5/21/2012 | 17.9 | Yes | Y | | | | 1.02 | 0.03000 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Ammonia | 5/21/2012 | 33.2 | Yes | Y | | | | 0.59 | 0.03000 | mg/kg |

SDG: UU52

| Analytical Method | | E350.1M | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|-----------------------|---------------|-----------------|-----------------|---------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | Ammonia | 5/21/2012 | 12.6 | Yes | Y | | | | 0.99 | 0.03000 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Ammonia | 5/21/2012 | 117 | Yes | Y | | | | 2.06 | 0.06000 | mg/kg |
| MS010-SS-120515 | 12-8903-UU52K | Ammonia | 5/21/2012 | 100 | Yes | Y | | | | 1.76 | 0.06000 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Ammonia | 5/21/2012 | 130 | Yes | Y | | | | 1.99 | 0.06000 | mg/kg |

| Analytical Method | | E376.2 | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|-----------------------|---------------|-----------------|-----------------|---------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Sulfide | 5/18/2012 | 2960 | Yes | Y | | | | 207 | 0.15000 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Sulfide | 5/18/2012 | 2350 | Yes | Y | | | | 197 | 0.15000 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Sulfide | 5/18/2012 | 3640 | Yes | Y | | | | 201 | 0.15000 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Sulfide | 5/18/2012 | 4070 | Yes | Y | | | | 207 | 0.15000 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Sulfide | 5/18/2012 | 1840 | Yes | Y | | | | 118 | 0.07500 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Sulfide | 5/18/2012 | 20.5 | Yes | Y | | | | 14.1 | 0.00750 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Sulfide | 5/18/2012 | 718 | Yes | Y | | | | 52.6 | 0.07500 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Sulfide | 5/18/2012 | 1770 | Yes | Y | | | | 113 | 0.07500 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Sulfide | 5/18/2012 | 1720 | Yes | Y | | | | 89.8 | 0.07500 | mg/kg |
| MS010-SS-120515 | 12-8903-UU52K | Sulfide | 5/18/2012 | 2030 | Yes | Y | | | | 177 | 0.15000 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Sulfide | 5/18/2012 | 3100 | Yes | Y | | | | 206 | 0.15000 | mg/kg |

| Analytical Method | | NWTPHDx | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|-----------------------|---------------|-----------------|-----------------|---------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Diesel Range Hydrocarbons | 5/22/2012 | 53 | Yes | Y | | | | 51 | 13 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Motor Oil Range | 5/22/2012 | 150 | Yes | Y | | | | 100 | 16 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Motor Oil Range | 5/22/2012 | 180 | Yes | Y | | | | 97 | 15 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Diesel Range Hydrocarbons | 5/22/2012 | 69 | Yes | Y | | | | 48 | 12 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Diesel Range Hydrocarbons | 5/22/2012 | 71 | Yes | Y | | | | 53 | 14 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Motor Oil Range | 5/22/2012 | 170 | Yes | Y | | | | 110 | 17 | mg/kg |

SDG: UU52

| Analytical Method | | NWTPHDx | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS004-SS-120515 | 12-8897-UU52E | Diesel Range Hydrocarbons | 5/22/2012 | 52 | Yes | N | U | | | 52 | 13 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Motor Oil Range | 5/22/2012 | 110 | Yes | Y | | | | 100 | 16 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Diesel Range Hydrocarbons | 5/22/2012 | 54 | Yes | N | U | | | 54 | 14 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Motor Oil Range | 5/22/2012 | 160 | Yes | Y | | | | 110 | 17 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Motor Oil Range | 5/22/2012 | 190 | Yes | Y | | | | 110 | 17 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Diesel Range Hydrocarbons | 5/22/2012 | 64 | Yes | Y | | | | 53 | 14 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Motor Oil Range | 5/22/2012 | 120 | Yes | Y | | | | 61 | 9.6 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Diesel Range Hydrocarbons | 5/22/2012 | 37 | Yes | Y | | | | 31 | 7.9 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Motor Oil Range | 5/22/2012 | 120 | Yes | Y | | | | 90 | 14 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Diesel Range Hydrocarbons | 5/22/2012 | 45 | Yes | N | U | | | 45 | 12 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Motor Oil Range | 5/22/2012 | 100 | Yes | N | U | | | 100 | 16 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Diesel Range Hydrocarbons | 5/22/2012 | 50 | Yes | N | U | | | 50 | 13 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Diesel Range Hydrocarbons | 5/22/2012 | 54 | Yes | Y | | | | 50 | 13 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Motor Oil Range | 5/22/2012 | 140 | Yes | Y | | | | 100 | 16 | mg/kg |

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Silt, Very Fine | 5/25/2012 | 12.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Sand, Medium | 5/25/2012 | 4.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Sand, Fine | 5/25/2012 | 3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Sand, Coarse | 5/25/2012 | 7.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Gravel | 5/25/2012 | 0.1 | Yes | N | U | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Fines (silt + clay) | 5/25/2012 | 58.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Clay, Medium | 5/25/2012 | 3.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Clay, Fine | 5/25/2012 | 14.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Clay, Coarse | 5/25/2012 | 3.1 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Sand, Very Fine | 5/25/2012 | 2.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Silt, Coarse | 5/25/2012 | 1.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Silt, Fine | 5/25/2012 | 11.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Sand, Very Coarse | 5/25/2012 | 24.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS001-SS-120515 | 12-8893-UU52A | Silt, Medium | 5/25/2012 | 13.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Sand, Very Coarse | 5/25/2012 | 14.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Clay, Fine | 5/25/2012 | 12.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Clay, Medium | 5/25/2012 | 5.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Fines (silt + clay) | 5/25/2012 | 69.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Gravel | 5/25/2012 | 0.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Sand, Coarse | 5/25/2012 | 6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Sand, Fine | 5/25/2012 | 3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Sand, Medium | 5/25/2012 | 4.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Sand, Very Fine | 5/25/2012 | 2.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Silt, Fine | 5/25/2012 | 12.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Silt, Medium | 5/25/2012 | 18.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Silt, Very Fine | 5/25/2012 | 15.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Clay, Coarse | 5/25/2012 | 4.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Silt, Coarse | 5/25/2012 | 1.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Sand, Medium | 5/25/2012 | 5.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Silt, Medium | 5/25/2012 | 24.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Silt, Fine | 5/25/2012 | 7.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Silt, Coarse | 5/25/2012 | 5.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Silt, Very Fine | 5/25/2012 | 5.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Clay, Coarse | 5/25/2012 | 1.3 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS003-SS-120515 | 12-8896-UU52D | Sand, Very Coarse | 5/25/2012 | 11.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Sand, Fine | 5/25/2012 | 4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Sand, Coarse | 5/25/2012 | 8.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Gravel | 5/25/2012 | 7.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Fines (silt + clay) | 5/25/2012 | 60.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Clay, Medium | 5/25/2012 | 2.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Clay, Fine | 5/25/2012 | 12.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Sand, Very Fine | 5/25/2012 | 2.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Gravel | 5/25/2012 | 4.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Silt, Coarse | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Sand, Very Coarse | 5/25/2012 | 8.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Sand, Medium | 5/25/2012 | 6.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Silt, Medium | 5/25/2012 | 25.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Sand, Coarse | 5/25/2012 | 7.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Silt, Fine | 5/25/2012 | 8.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Fines (silt + clay) | 5/25/2012 | 64.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Clay, Medium | 5/25/2012 | 3.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Clay, Fine | 5/25/2012 | 11.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Clay, Coarse | 5/25/2012 | 3.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Sand, Fine | 5/25/2012 | 5.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Sand, Very Fine | 5/25/2012 | 3.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Silt, Very Fine | 5/25/2012 | 7.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Sand, Very Fine | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Clay, Coarse | 5/25/2012 | 4.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Fines (silt + clay) | 5/25/2012 | 35.6 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS005-SS-120515 | 12-8898-UU52F | Sand, Coarse | 5/25/2012 | 11.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Sand, Fine | 5/25/2012 | 6.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Sand, Very Coarse | 5/25/2012 | 13.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Silt, Coarse | 5/25/2012 | 2.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Silt, Fine | 5/25/2012 | 6.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Silt, Medium | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Silt, Very Fine | 5/25/2012 | 6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Clay, Fine | 5/25/2012 | 9.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Clay, Medium | 5/25/2012 | 2.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Gravel | 5/25/2012 | 19.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Sand, Medium | 5/25/2012 | 9.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Sand, Very Fine | 5/25/2012 | 4.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Silt, Very Fine | 5/25/2012 | 2.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Silt, Medium | 5/25/2012 | 2.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Silt, Coarse | 5/25/2012 | 3.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Sand, Very Coarse | 5/25/2012 | 19 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Sand, Medium | 5/25/2012 | 12.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Sand, Fine | 5/25/2012 | 8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Sand, Coarse | 5/25/2012 | 16.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Gravel | 5/25/2012 | 16.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Fines (silt + clay) | 5/25/2012 | 22.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Clay, Medium | 5/25/2012 | 2.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Clay, Fine | 5/25/2012 | 5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Clay, Coarse | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Silt, Fine | 5/25/2012 | 3.5 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS007-SS-120515 | 12-8900-UU52H | Silt, Medium | 5/25/2012 | 9.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Clay, Coarse | 5/25/2012 | 2.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Clay, Fine | 5/25/2012 | 5.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Clay, Medium | 5/25/2012 | 2.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Fines (silt + clay) | 5/25/2012 | 44.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Sand, Coarse | 5/25/2012 | 9.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Sand, Fine | 5/25/2012 | 9.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Sand, Medium | 5/25/2012 | 8.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Sand, Very Coarse | 5/25/2012 | 16.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Sand, Very Fine | 5/25/2012 | 10.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Silt, Fine | 5/25/2012 | 7.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Gravel | 5/25/2012 | 1.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Silt, Very Fine | 5/25/2012 | 6.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Silt, Coarse | 5/25/2012 | 11.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Clay, Fine | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Silt, Very Fine | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Silt, Medium | 5/25/2012 | 2.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Silt, Fine | 5/25/2012 | 4.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Silt, Coarse | 5/25/2012 | 5.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Sand, Very Fine | 5/25/2012 | 3.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Sand, Very Coarse | 5/25/2012 | 11.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Sand, Medium | 5/25/2012 | 5.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Sand, Fine | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Sand, Coarse | 5/25/2012 | 7.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Gravel | 5/25/2012 | 44.1 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | Clay, Medium | 5/25/2012 | 2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Clay, Coarse | 5/25/2012 | 3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Fines (silt + clay) | 5/25/2012 | 24.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Fines (silt + clay) | 5/25/2012 | 63.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Clay, Coarse | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Clay, Medium | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Gravel | 5/25/2012 | 5.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Sand, Fine | 5/25/2012 | 5.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Sand, Medium | 5/25/2012 | 6.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Sand, Very Coarse | 5/25/2012 | 8.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Sand, Very Fine | 5/25/2012 | 4.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Silt, Coarse | 5/25/2012 | 10.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Silt, Fine | 5/25/2012 | 9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Silt, Medium | 5/25/2012 | 12.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Silt, Very Fine | 5/25/2012 | 10.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Clay, Fine | 5/25/2012 | 12.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Sand, Coarse | 5/25/2012 | 7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Clay, Fine | 5/25/2012 | 11.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Silt, Fine | 5/25/2012 | 8.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Silt, Coarse | 5/25/2012 | 8.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Sand, Very Fine | 5/25/2012 | 3.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Sand, Very Coarse | 5/25/2012 | 9.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Clay, Coarse | 5/25/2012 | 2.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Silt, Medium | 5/25/2012 | 14.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Clay, Medium | 5/25/2012 | 3.9 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU52

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS010-SS-120515 | 12-8903-UU52K | Fines (silt + clay) | 5/25/2012 | 57.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Gravel | 5/25/2012 | 11.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Sand, Coarse | 5/25/2012 | 7.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Sand, Fine | 5/25/2012 | 4.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Sand, Medium | 5/25/2012 | 5.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Silt, Very Fine | 5/25/2012 | 8.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Sand, Medium | 5/25/2012 | 4.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Fines (silt + clay) | 5/25/2012 | 52.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Gravel | 5/25/2012 | 11.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Clay, Fine | 5/25/2012 | 12.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Silt, Coarse | 5/25/2012 | 1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Sand, Very Fine | 5/25/2012 | 2.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Sand, Very Coarse | 5/25/2012 | 17.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Silt, Fine | 5/25/2012 | 9.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Sand, Fine | 5/25/2012 | 3.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Silt, Medium | 5/25/2012 | 11.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Clay, Medium | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Clay, Coarse | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Silt, Very Fine | 5/25/2012 | 11.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Sand, Coarse | 5/25/2012 | 7.9 | Yes | Y | | | | 0.1 | 0.1 | pct |

| Analytical Method | | SM2540B | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Total solids | 5/22/2012 | 10.2 | Yes | Y | | | | 0.01 | | pct |
| MS002-SS-120515 | 12-8895-UU52C | Total solids | 5/22/2012 | 10.4 | Yes | Y | | | | 0.01 | | pct |
| MS003-SS-120515 | 12-8896-UU52D | Total solids | 5/22/2012 | 9.3 | Yes | Y | | | | 0.01 | | pct |

SDG: UU52

| Analytical Method | | SM2540B | | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS004-SS-120515 | 12-8897-UU52E | Total solids | 5/22/2012 | 10.3 | Yes | Y | | | | 0.01 | | pct |
| MS005-SS-120515 | 12-8898-UU52F | Total solids | 5/22/2012 | 9.2 | Yes | Y | | | | 0.01 | | pct |
| MS006-SS-120515 | 12-8899-UU52G | Total solids | 5/22/2012 | 9.8 | Yes | Y | | | | 0.01 | | pct |
| MS007-SS-120515 | 12-8900-UU52H | Total solids | 5/22/2012 | 16.8 | Yes | Y | | | | 0.01 | | pct |
| MS008-SS-120515 | 12-8901-UU52I | Total solids | 5/22/2012 | 10.7 | Yes | Y | | | | 0.01 | | pct |
| MS009-SS-120515 | 12-8902-UU52J | Total solids | 5/22/2012 | 10.1 | Yes | Y | | | | 0.01 | | pct |
| MS010-SS-120515 | 12-8903-UU52K | Total solids | 5/22/2012 | 10.6 | Yes | Y | | | | 0.01 | | pct |
| MS101-SS-120515 | 12-8894-UU52B | Total solids | 5/22/2012 | 10.2 | Yes | Y | | | | 0.01 | | pct |
| Analytical Method | | SM2540B-PRES | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Total solids (preserved) | 5/21/2012 | 9.7 | Yes | Y | | | | 0.01 | | pct |
| MS002-SS-120515 | 12-8895-UU52C | Total solids (preserved) | 5/21/2012 | 10.5 | Yes | Y | | | | 0.01 | | pct |
| MS003-SS-120515 | 12-8896-UU52D | Total solids (preserved) | 5/21/2012 | 10.9 | Yes | Y | | | | 0.01 | | pct |
| MS004-SS-120515 | 12-8897-UU52E | Total solids (preserved) | 5/21/2012 | 10 | Yes | Y | | | | 0.01 | | pct |
| MS005-SS-120515 | 12-8898-UU52F | Total solids (preserved) | 5/21/2012 | 8.3 | Yes | Y | | | | 0.01 | | pct |
| MS006-SS-120515 | 12-8899-UU52G | Total solids (preserved) | 5/21/2012 | 6.9 | Yes | Y | | | | 0.01 | | pct |
| MS007-SS-120515 | 12-8900-UU52H | Total solids (preserved) | 5/21/2012 | 19 | Yes | Y | | | | 0.01 | | pct |
| MS008-SS-120515 | 12-8901-UU52I | Total solids (preserved) | 5/21/2012 | 8.1 | Yes | Y | | | | 0.01 | | pct |
| MS009-SS-120515 | 12-8902-UU52J | Total solids (preserved) | 5/21/2012 | 10.6 | Yes | Y | | | | 0.01 | | pct |
| MS010-SS-120515 | 12-8903-UU52K | Total solids (preserved) | 5/21/2012 | 10.5 | Yes | Y | | | | 0.01 | | pct |
| MS101-SS-120515 | 12-8894-UU52B | Total solids (preserved) | 5/21/2012 | 9.7 | Yes | Y | | | | 0.01 | | pct |
| Analytical Method | | SW6010C | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Copper | 5/29/2012 | 129 | Yes | Y | | | | 2 | 0.48 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Lead | 5/29/2012 | 170 | Yes | Y | | | | 20 | 1.2 | mg/kg |

SDG: UU52

| Analytical Method | | SW6010C | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|---------|---------------|----------|----------|--------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res | Report Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Chromium | 5/29/2012 | 37 | Yes | Y | | | | 5 | 2.6 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Zinc | 5/29/2012 | 400 | Yes | Y | | | | 10 | 1.2 | mg/kg |
| MS001-SS-120515 | 12-8893-UU52A | Nickel | 5/29/2012 | 50 | Yes | Y | | | | 10 | 2.9 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Lead | 5/29/2012 | 150 | Yes | Y | | | | 20 | 1.2 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Zinc | 5/29/2012 | 330 | Yes | Y | | | | 9 | 1.1 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Nickel | 5/29/2012 | 46 | Yes | Y | | | | 9 | 2.7 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Chromium | 5/29/2012 | 41 | Yes | Y | | | | 5 | 2.4 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Copper | 5/29/2012 | 139 | Yes | Y | | | | 2 | 0.45 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Zinc | 5/29/2012 | 210 | Yes | Y | | | | 10 | 1.2 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Copper | 5/29/2012 | 78 | Yes | Y | | | | 2 | 0.49 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Chromium | 5/29/2012 | 32 | Yes | Y | | | | 5 | 2.6 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Nickel | 5/29/2012 | 30 | Yes | Y | | | | 10 | 2.9 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Lead | 5/29/2012 | 100 | Yes | Y | | | | 20 | 1.3 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Chromium | 5/29/2012 | 34 | Yes | Y | | | | 5 | 2.6 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Copper | 5/29/2012 | 99 | Yes | Y | | | | 2 | 0.49 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Nickel | 5/29/2012 | 40 | Yes | Y | | | | 10 | 2.9 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Lead | 5/29/2012 | 110 | Yes | Y | | | | 20 | 1.3 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Zinc | 5/29/2012 | 260 | Yes | Y | | | | 10 | 1.2 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Copper | 5/29/2012 | 251 | Yes | Y | | | | 2 | 0.61 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Zinc | 5/29/2012 | 500 | Yes | Y | | | | 10 | 1.5 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Chromium | 5/29/2012 | 25 | Yes | Y | | | | 6 | 3.3 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Nickel | 5/29/2012 | 40 | Yes | Y | | | | 10 | 3.6 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Lead | 5/29/2012 | 1180 | Yes | Y | | | | 20 | 1.6 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Zinc | 5/29/2012 | 217 | Yes | Y | | | | 9 | 1.1 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Chromium | 5/29/2012 | 17 | Yes | Y | | | | 5 | 2.6 | mg/kg |

SDG: UU52

| Analytical Method | | SW6010C | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS006-SS-120515 | 12-8899-UU52G | Nickel | 5/29/2012 | 33 | Yes | Y | | | | 9 | 2.8 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Lead | 5/29/2012 | 360 | Yes | Y | | | | 20 | 1.2 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Copper | 5/29/2012 | 91 | Yes | Y | | | | 2 | 0.47 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Lead | 5/29/2012 | 350 | Yes | Y | | | | 10 | 0.74 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Zinc | 5/29/2012 | 594 | Yes | Y | | | | 6 | 0.68 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Nickel | 5/29/2012 | 44 | Yes | Y | | | | 6 | 1.7 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Copper | 5/29/2012 | 111 | Yes | Y | | | | 1 | 0.28 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Chromium | 5/29/2012 | 40 | Yes | Y | | | | 3 | 1.5 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Nickel | 5/29/2012 | 37 | Yes | Y | | | | 9 | 2.7 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Lead | 5/29/2012 | 160 | Yes | Y | | | | 20 | 1.2 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Zinc | 5/29/2012 | 251 | Yes | Y | | | | 9 | 1.1 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Copper | 5/29/2012 | 94 | Yes | Y | | | | 2 | 0.44 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Chromium | 5/29/2012 | 37 | Yes | Y | | | | 4 | 2.4 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Nickel | 5/29/2012 | 38 | Yes | Y | | | | 9 | 2.7 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Lead | 5/29/2012 | 60 | Yes | Y | | | | 20 | 1.2 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Zinc | 5/29/2012 | 162 | Yes | Y | | | | 9 | 1.1 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Chromium | 5/29/2012 | 43 | Yes | Y | | | | 4 | 2.4 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Copper | 5/29/2012 | 66 | Yes | Y | | | | 2 | 0.45 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Copper | 5/29/2012 | 125 | Yes | Y | | | | 2 | 0.47 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Chromium | 5/29/2012 | 38 | Yes | Y | | | | 5 | 2.5 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Nickel | 5/29/2012 | 42 | Yes | Y | | | | 9 | 2.8 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Lead | 5/29/2012 | 170 | Yes | Y | | | | 20 | 1.2 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Zinc | 5/29/2012 | 374 | Yes | Y | | | | 9 | 1.1 | mg/kg |

| Analytical Method | | SW7471A | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |

SDG: UU52

| Analytical Method | | SW7471A | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|--------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Mercury | 5/21/2012 | 0.4 | Yes | Y | | | | 0.2 | 0.011 | mg/kg |
| MS002-SS-120515 | 12-8895-UU52C | Mercury | 5/21/2012 | 0.3 | Yes | Y | | | | 0.2 | 0.0092 | mg/kg |
| MS003-SS-120515 | 12-8896-UU52D | Mercury | 5/21/2012 | 0.3 | Yes | Y | | | | 0.2 | 0.010 | mg/kg |
| MS004-SS-120515 | 12-8897-UU52E | Mercury | 5/21/2012 | 0.2 | Yes | Y | | | | 0.2 | 0.0097 | mg/kg |
| MS005-SS-120515 | 12-8898-UU52F | Mercury | 5/21/2012 | 0.4 | Yes | Y | | | | 0.3 | 0.015 | mg/kg |
| MS006-SS-120515 | 12-8899-UU52G | Mercury | 5/21/2012 | 0.7 | Yes | Y | | | | 0.2 | 0.012 | mg/kg |
| MS007-SS-120515 | 12-8900-UU52H | Mercury | 5/21/2012 | 0.2 | Yes | Y | | | | 0.1 | 0.0062 | mg/kg |
| MS008-SS-120515 | 12-8901-UU52I | Mercury | 5/21/2012 | 0.2 | Yes | Y | | | | 0.2 | 0.010 | mg/kg |
| MS009-SS-120515 | 12-8902-UU52J | Mercury | 5/21/2012 | 0.2 | Yes | Y | | | | 0.2 | 0.0088 | mg/kg |
| MS101-SS-120515 | 12-8894-UU52B | Mercury | 5/21/2012 | 0.4 | Yes | Y | | | | 0.2 | 0.0093 | mg/kg |

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 19 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 130 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | Dieldrin | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 99 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | Endrin ketone | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52AD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 190 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |

SDG: UU52

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS002-SS-120515 | 12-8895-UU52C | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 19 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | Endrin ketone | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 590 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 950 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | Dieldrin | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 500 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 670 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 620 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52CD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 2500 | No | N | U | R | 22 | 2500 | 690 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 19 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | Dieldrin | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 99 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | Endrin ketone | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 190 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52DD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 130 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 100 | Yes | N | U | | | 100 | 13 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Dieldrin | 5/26/2012 | 100 | Yes | N | U | | | 100 | 9.9 | ug/kg |

SDG: UU52

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|-----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS004-SS-120515 | 12-8897-UU52E | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 100 | Yes | N | U | | | 100 | 19 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 100 | Yes | N | U | | | 100 | 12 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Endrin ketone | 5/26/2012 | 100 | Yes | N | U | | | 100 | 12 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 130 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | Dieldrin | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 99 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | Endrin ketone | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 120 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 190 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52ED | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 120 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 19 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 49 | Yes | N | U | | | 49 | 14 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 490 | No | N | U | R | 22 | 490 | 140 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 190 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 130 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | Dieldrin | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 99 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52FDL | Endrin ketone | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 9.9 | Yes | N | U | UJ | 5 | 9.9 | 1.2 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 40 | Yes | Y | P | J | 5 | 9.9 | 1.3 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Dieldrin | 5/26/2012 | 9.9 | Yes | N | U | | | 9.9 | 0.99 | ug/kg |

SDG: UU52

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS006-SS-120515 | 12-8899-UU52G | Endrin ketone | 5/26/2012 | 28 | Yes | N | Y | | | 28 | 1.2 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 19 | Yes | Y | | J | 5 | 9.9 | 1.9 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 12 | Yes | N | Y | | | 12 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 99 | No | N | U | R | 22 | 99 | 19 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Endrin ketone | 5/25/2012 | 99 | No | N | U | R | 22 | 99 | 12 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Dieldrin | 5/25/2012 | 99 | No | N | U | R | 22 | 99 | 9.9 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 99 | No | N | U | R | 22 | 99 | 13 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 99 | No | N | U | R | 22 | 99 | 12 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 50 | No | N | U | R | 22 | 50 | 14 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | UJ | 5 | 99 | 12 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | UJ | 5 | 99 | 19 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | Endrin ketone | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 190 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | Dieldrin | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 99 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 130 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52HD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | UJ | 5 | 99 | 12 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | UJ | 5 | 99 | 19 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|-----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 620 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 670 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | Dieldrin | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 500 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | Endrin ketone | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 590 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 5000 | No | N | U | R | 22 | 5000 | 950 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52IDL | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 2500 | No | N | U | R | 22 | 2500 | 690 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 100 | Yes | N | U | UJ | 5 | 100 | 12 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 100 | Yes | N | U | UJ | 5 | 100 | 19 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Endrin ketone | 5/26/2012 | 100 | Yes | N | U | | | 100 | 12 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Dieldrin | 5/26/2012 | 100 | Yes | N | U | | | 100 | 10 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 100 | Yes | N | U | | | 100 | 13 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 130 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 190 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | Dieldrin | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 100 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | Endrin ketone | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 120 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52JDL | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 1000 | No | N | U | R | 22 | 1000 | 120 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | 4,4'-DDE (p,p'-DDE) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | 4,4'-DDD (p,p'-DDD) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 13 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Dieldrin | 5/26/2012 | 99 | Yes | N | U | | | 99 | 9.9 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Endrin ketone | 5/26/2012 | 99 | Yes | N | U | | | 99 | 12 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | 4,4'-DDT (p,p'-DDT) | 5/26/2012 | 99 | Yes | N | U | | | 99 | 19 | ug/kg |

SDG: UU52

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|----------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS101-SS-120515 | 12-8894-UU52B | Hexachlorocyclohexane, beta- (BHC) | 5/26/2012 | 50 | Yes | N | U | | | 50 | 14 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | 4,4'-DDE (p,p'-DDE) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | 4,4'-DDD (p,p'-DDD) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 130 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | Endrin ketone | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 120 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | Dieldrin | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 99 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | Hexachlorocyclohexane, beta- (BHC) | 5/25/2012 | 500 | No | N | U | R | 22 | 500 | 140 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52BD | 4,4'-DDT (p,p'-DDT) | 5/25/2012 | 990 | No | N | U | R | 22 | 990 | 190 | ug/kg |

| Analytical Method | | SW8082 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1248 | 5/25/2012 | 22 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1254 | 5/25/2012 | 44 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1221 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1242 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1260 | 5/25/2012 | 20 | Yes | N | Y | | | 20 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1016 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1262 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1268 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Aroclor 1232 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1248 | 5/25/2012 | 17 | Yes | Y | P | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1016 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1262 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1232 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1254 | 5/25/2012 | 39 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1221 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1268 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |

SDG: UU52

| Analytical Method | | SW8082 | | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|--|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units | |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1242 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS002-SS-120515 | 12-8895-UU52C | Aroclor 1260 | 5/25/2012 | 20 | Yes | N | Y | | | 20 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1254 | 5/25/2012 | 28 | Yes | Y | | | | 4.0 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1262 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1260 | 5/25/2012 | 14 | Yes | N | Y | | | 14 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1268 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1221 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1248 | 5/25/2012 | 20 | Yes | N | Y | | | 20 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1016 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1242 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS003-SS-120515 | 12-8896-UU52D | Aroclor 1232 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1254 | 5/26/2012 | 28 | Yes | Y | P | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1248 | 5/26/2012 | 16 | Yes | N | Y | | | 16 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg | |
| MS004-SS-120515 | 12-8897-UU52E | Aroclor 1260 | 5/26/2012 | 20 | Yes | N | Y | | | 20 | 1.4 | ug/kg | |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg | |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg | |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg | |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1248 | 5/26/2012 | 12 | Yes | Y | | | | 4.0 | 1.3 | ug/kg | |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1260 | 5/26/2012 | 12 | Yes | N | Y | | | 12 | 1.3 | ug/kg | |

SDG: UU52

| Analytical Method | | SW8082 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1254 | 5/26/2012 | 25 | Yes | Y | | | | 4.0 | 1.3 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1260 | 5/26/2012 | 20 | Yes | N | Y | | | 20 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1254 | 5/26/2012 | 27 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1248 | 5/26/2012 | 16 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1254 | 5/26/2012 | 31 | Yes | Y | | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1260 | 5/26/2012 | 14 | Yes | N | Y | | | 14 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1248 | 5/26/2012 | 15 | Yes | Y | | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1260 | 5/26/2012 | 9.9 | Yes | N | Y | | | 9.9 | 1.4 | ug/kg |

SDG: UU52

| Analytical Method | | SW8082 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1254 | 5/26/2012 | 23 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Aroclor 1248 | 5/26/2012 | 9.9 | Yes | N | Y | | | 9.9 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1262 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1242 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1248 | 5/26/2012 | 10 | Yes | N | Y | | | 10 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1254 | 5/26/2012 | 20 | Yes | Y | | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1268 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1221 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1232 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.4 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1016 | 5/26/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Aroclor 1260 | 5/26/2012 | 10 | Yes | N | Y | | | 10 | 1.4 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1262 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1248 | 5/25/2012 | 17 | Yes | Y | | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1016 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.0 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1232 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1268 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1254 | 5/25/2012 | 37 | Yes | Y | | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1260 | 5/25/2012 | 16 | Yes | N | Y | | | 16 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1242 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Aroclor 1221 | 5/25/2012 | 4 | Yes | N | U | | | 4.0 | 1.3 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Chrysene | 5/26/2012 | 430 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | 4-Methylphenol (p-Cresol) | 5/26/2012 | 1200 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Phenol | 5/26/2012 | 300 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Butylbenzyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Phenanthrene | 5/26/2012 | 690 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Di-n-octyl phthalate | 5/26/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Di-n-butyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Acenaphthene | 5/26/2012 | 110 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Benzoic acid | 5/26/2012 | 390 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Benzo(a)anthracene | 5/26/2012 | 160 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Dibenzo(a,h)anthracene | 5/26/2012 | 57 | Yes | Y | J | | | 60 | 13 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 570 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Retene | 5/26/2012 | 74 | Yes | Y | | | | 60 | 60 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Acenaphthylene | 5/26/2012 | 74 | Yes | Y | | | | 60 | 17 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | 2-Methylnaphthalene | 5/26/2012 | 170 | Yes | Y | | | | 60 | 9.1 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 140 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Anthracene | 5/26/2012 | 140 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Pyrene | 5/26/2012 | 580 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Benzo(a)pyrene | 5/26/2012 | 260 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Dibenzofuran | 5/26/2012 | 180 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Fluoranthene | 5/26/2012 | 660 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Naphthalene | 5/26/2012 | 1100 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Pentachlorophenol | 5/26/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Carbazole | 5/26/2012 | 42 | Yes | Y | J | | | 60 | 8.0 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Fluorene | 5/26/2012 | 120 | Yes | Y | | | | 60 | 13 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|---------|--------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res | Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Benzo(g,h,i)perylene | 5/26/2012 | 270 | | | Yes | Y | | | 60 | 13 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 200 | | | Yes | Y | | | 60 | 14 | ug/kg |
| MS001-SS-120515 | 12-8893-UU52A | Dimethyl phthalate | 5/26/2012 | 60 | | | Yes | N | U | | 60 | 8.6 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Benzo(g,h,i)perylene | 5/26/2012 | 430 | | | Yes | Y | | | 59 | 13 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Retene | 5/26/2012 | 80 | | | Yes | Y | | | 59 | 59 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Acenaphthylene | 5/26/2012 | 86 | | | Yes | Y | | | 59 | 17 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Chrysene | 5/26/2012 | 800 | | | Yes | Y | | | 59 | 11 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 340 | | | Yes | Y | | | 59 | 14 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Di-n-octyl phthalate | 5/26/2012 | 59 | | | Yes | N | UJ | | 59 | 17 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Phenanthrene | 5/26/2012 | 830 | | | Yes | Y | | | 59 | 11 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Fluoranthene | 5/26/2012 | 860 | | | Yes | Y | | | 59 | 8.6 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 1000 | | | Yes | Y | | | 59 | 8.2 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | 2-Methylnaphthalene | 5/26/2012 | 240 | | | Yes | Y | | | 59 | 9.1 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Naphthalene | 5/26/2012 | 1300 | | | Yes | Y | | | 59 | 8.2 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Pentachlorophenol | 5/26/2012 | 590 | | | Yes | N | U | | 590 | 140 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Carbazole | 5/26/2012 | 56 | | | Yes | Y | J | | 59 | 8.0 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Fluorene | 5/26/2012 | 160 | | | Yes | Y | | | 59 | 13 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Pyrene | 5/26/2012 | 860 | | | Yes | Y | | | 59 | 5.8 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Butylbenzyl phthalate | 5/26/2012 | 59 | | | Yes | N | U | | 59 | 18 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Dibenzofuran | 5/26/2012 | 240 | | | Yes | Y | | | 59 | 12 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Di-n-butyl phthalate | 5/26/2012 | 59 | | | Yes | N | U | | 59 | 24 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 150 | | | Yes | Y | | | 74 | 43 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Dimethyl phthalate | 5/26/2012 | 59 | | | Yes | N | U | | 59 | 8.6 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | 4-Methylphenol (p-Cresol) | 5/26/2012 | 1400 | | | Yes | Y | | | 120 | 20 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Anthracene | 5/26/2012 | 170 | | | Yes | Y | | | 59 | 13 | ug/kg |

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS002-SS-120515 | 12-8895-UU52C | Acenaphthene | 5/26/2012 | 140 | Yes | Y | | | | 59 | 9.7 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Phenol | 5/26/2012 | 260 | Yes | Y | | | | 59 | 26 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Benzo(a)pyrene | 5/26/2012 | 470 | Yes | Y | | | | 59 | 16 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Dibenzo(a,h)anthracene | 5/26/2012 | 100 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Benzo(a)anthracene | 5/26/2012 | 280 | Yes | Y | | | | 59 | 9.8 | ug/kg |
| MS002-SS-120515 | 12-8895-UU52C | Benzoic acid | 5/26/2012 | 420 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Butylbenzyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Pyrene | 5/26/2012 | 510 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Anthracene | 5/26/2012 | 120 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Di-n-octyl phthalate | 5/26/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 120 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Phenol | 5/26/2012 | 180 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | 4-Methylphenol (p-Cresol) | 5/26/2012 | 1100 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Pentachlorophenol | 5/26/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Di-n-butyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Dibenzofuran | 5/26/2012 | 110 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 580 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | 2-Methylnaphthalene | 5/26/2012 | 86 | Yes | Y | | | | 60 | 9.1 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Naphthalene | 5/26/2012 | 550 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Carbazole | 5/26/2012 | 60 | Yes | N | U | | | 60 | 8.0 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Fluorene | 5/26/2012 | 74 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Dimethyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 8.6 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Phenanthrene | 5/26/2012 | 500 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Acenaphthene | 5/26/2012 | 72 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Acenaphthylene | 5/26/2012 | 60 | Yes | Y | | | | 60 | 17 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS003-SS-120515 | 12-8896-UU52D | Benzo(g,h,i)perylene | 5/26/2012 | 230 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Benzoic acid | 5/26/2012 | 330 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Fluoranthene | 5/26/2012 | 550 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 180 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Chrysene | 5/26/2012 | 390 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Retene | 5/26/2012 | 32 | Yes | Y | J | | | 60 | 60 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Benzo(a)pyrene | 5/26/2012 | 250 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Dibenzo(a,h)anthracene | 5/26/2012 | 51 | Yes | Y | J | | | 60 | 13 | ug/kg |
| MS003-SS-120515 | 12-8896-UU52D | Benzo(a)anthracene | 5/26/2012 | 130 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Dibenzo(a,h)anthracene | 5/26/2012 | 87 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Phenanthrene | 5/26/2012 | 890 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Benzoic acid | 5/26/2012 | 390 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Acenaphthene | 5/26/2012 | 140 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Di-n-butyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Benzo(a)anthracene | 5/26/2012 | 240 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Butylbenzyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Fluorene | 5/26/2012 | 170 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | 2-Methylnaphthalene | 5/26/2012 | 270 | Yes | Y | | | | 60 | 9.1 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Pentachlorophenol | 5/26/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Naphthalene | 5/26/2012 | 1400 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Benzo(a)pyrene | 5/26/2012 | 380 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 120 | Yes | Y | | | | 75 | 44 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Carbazole | 5/26/2012 | 69 | Yes | Y | | | | 60 | 8.0 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Retene | 5/26/2012 | 120 | Yes | Y | | | | 60 | 60 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Chrysene | 5/26/2012 | 680 | Yes | Y | | | | 60 | 11 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS004-SS-120515 | 12-8897-UU52E | Acenaphthylene | 5/26/2012 | 78 | Yes | Y | | | | 60 | 17 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Fluoranthene | 5/26/2012 | 870 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 280 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Benzo(g,h,i)perylene | 5/26/2012 | 360 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Dibenzofuran | 5/26/2012 | 300 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Dimethyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 8.7 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Pyrene | 5/26/2012 | 790 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Di-n-octyl phthalate | 5/26/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Phenol | 5/26/2012 | 200 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | 4-Methylphenol (p-Cresol) | 5/26/2012 | 690 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 970 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS004-SS-120515 | 12-8897-UU52E | Anthracene | 5/26/2012 | 180 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Benzo(a)pyrene | 5/26/2012 | 330 | Yes | Y | | | | 59 | 16 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | 4-Methylphenol (p-Cresol) | 5/26/2012 | 3300 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Phenol | 5/26/2012 | 1100 | Yes | Y | | | | 59 | 26 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 170 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Di-n-octyl phthalate | 5/26/2012 | 59 | Yes | N | UJ | | | 59 | 17 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Pyrene | 5/26/2012 | 1600 | Yes | Y | | | | 59 | 5.7 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Dimethyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 8.6 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Dibenzofuran | 5/26/2012 | 660 | Yes | Y | | | | 59 | 12 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Benzo(g,h,i)perylene | 5/26/2012 | 320 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 240 | Yes | Y | | | | 59 | 14 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Fluoranthene | 5/26/2012 | 1900 | Yes | Y | | | | 59 | 8.6 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Acenaphthylene | 5/26/2012 | 250 | Yes | Y | | | | 59 | 17 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Anthracene | 5/26/2012 | 350 | Yes | Y | | | | 59 | 13 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS005-SS-120515 | 12-8898-UU52F | Retene | 5/26/2012 | 140 | Yes | Y | | | | 59 | 59 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 970 | Yes | Y | | | | 59 | 8.1 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Dibenzo(a,h)anthracene | 5/26/2012 | 95 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Benzo(a)anthracene | 5/26/2012 | 300 | Yes | Y | | | | 59 | 9.7 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Benzoic acid | 5/26/2012 | 3100 | Yes | Y | | J | 10 | 1200 | 300 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Acenaphthene | 5/26/2012 | 820 | Yes | Y | | | | 59 | 9.7 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Di-n-butyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 24 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Phenanthrene | 5/26/2012 | 1800 | Yes | Y | | | | 59 | 11 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Butylbenzyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 18 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Fluorene | 5/26/2012 | 450 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Carbazole | 5/26/2012 | 130 | Yes | Y | | | | 59 | 8.0 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Pentachlorophenol | 5/26/2012 | 590 | Yes | N | U | | | 590 | 140 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Naphthalene | 5/26/2012 | 4400 | Yes | Y | | | | 59 | 8.2 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | 2-Methylnaphthalene | 5/26/2012 | 600 | Yes | Y | | | | 59 | 9.1 | ug/kg |
| MS005-SS-120515 | 12-8898-UU52F | Chrysene | 5/26/2012 | 570 | Yes | Y | | | | 59 | 11 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Benzo(g,h,i)perylene | 5/26/2012 | 310 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Butylbenzyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 650 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | 2-Methylnaphthalene | 5/26/2012 | 600 | Yes | Y | | | | 60 | 9.1 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Naphthalene | 5/26/2012 | 6200 | No | Y | E | R | 22 | 60 | 8.2 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Pentachlorophenol | 5/26/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Dimethyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 8.6 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Fluorene | 5/26/2012 | 130 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | 4-Methylphenol (p-Cresol) | 5/26/2012 | 270 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Phenanthrene | 5/26/2012 | 2200 | Yes | Y | | | | 60 | 11 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|----------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS006-SS-120515 | 12-8899-UU52G | Di-n-butyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Acenaphthene | 5/26/2012 | 110 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Benzoic acid | 5/26/2012 | 3100 | Yes | Y | | J | 10 | 1200 | 300 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Benzo(a)anthracene | 5/26/2012 | 230 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Anthracene | 5/26/2012 | 220 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Carbazole | 5/26/2012 | 95 | Yes | Y | | | | 60 | 8.0 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Dibenzo(a,h)anthracene | 5/26/2012 | 54 | Yes | Y | J | | | 60 | 13 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Di-n-octyl phthalate | 5/26/2012 | 60 | Yes | N | UU | | | 60 | 17 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Phenol | 5/26/2012 | 380 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Pyrene | 5/26/2012 | 1400 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Dibenzofuran | 5/26/2012 | 480 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 220 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Fluoranthene | 5/26/2012 | 1700 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Acenaphthylene | 5/26/2012 | 220 | Yes | Y | | | | 60 | 17 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Chrysene | 5/26/2012 | 410 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Retene | 5/26/2012 | 270 | Yes | Y | | | | 60 | 60 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Benzo(a)pyrene | 5/26/2012 | 250 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52G | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 120 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Fluorene | 5/30/2012 | 130 | No | Y | | R | 22 | 120 | 26 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Dimethyl phthalate | 5/30/2012 | 120 | No | N | U | R | 22 | 120 | 17 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | 2-Methylnaphthalene | 5/30/2012 | 580 | No | Y | | R | 22 | 120 | 18 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Naphthalene | 5/30/2012 | 6300 | Yes | Y | | | | 120 | 16 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Pentachlorophenol | 5/30/2012 | 1200 | No | N | U | R | 22 | 1200 | 290 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Carbazole | 5/30/2012 | 110 | No | Y | J | R | 22 | 120 | 16 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Butylbenzyl phthalate | 5/30/2012 | 120 | No | N | U | R | 22 | 120 | 37 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|----------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS006-SS-120515 | 12-8899-UU52GD | Phenanthrene | 5/30/2012 | 2200 | No | Y | | R | 22 | 120 | 22 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Di-n-butyl phthalate | 5/30/2012 | 120 | No | N | U | R | 22 | 120 | 49 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Acenaphthene | 5/30/2012 | 89 | No | Y | J | R | 22 | 120 | 20 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Benzoic acid | 5/30/2012 | 5200 | No | Y | | R | 22 | 2400 | 600 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Dibenzo(a,h)anthracene | 5/30/2012 | 65 | No | Y | J | R | 22 | 120 | 26 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Benzo(a)anthracene | 5/30/2012 | 210 | No | Y | | R | 22 | 120 | 20 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Acenaphthylene | 5/30/2012 | 210 | No | Y | | R | 22 | 120 | 34 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Benzo(b,j,k)fluoranthenes | 5/30/2012 | 640 | No | Y | | R | 22 | 120 | 16 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Benzo(a)pyrene | 5/30/2012 | 240 | No | Y | | R | 22 | 120 | 32 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Chrysene | 5/30/2012 | 400 | No | Y | | R | 22 | 120 | 22 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Fluoranthene | 5/30/2012 | 1800 | No | Y | | R | 22 | 120 | 17 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Indeno(1,2,3-c,d)pyrene | 5/30/2012 | 260 | No | Y | | R | 22 | 120 | 28 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Benzo(g,h,i)perylene | 5/30/2012 | 380 | No | Y | | R | 22 | 120 | 26 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Phenol | 5/30/2012 | 490 | No | Y | | R | 22 | 120 | 51 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Retene | 5/30/2012 | 270 | No | Y | | R | 22 | 120 | 120 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | 4-Methylphenol (p-Cresol) | 5/30/2012 | 280 | No | Y | | R | 22 | 240 | 39 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Dibenzofuran | 5/30/2012 | 540 | No | Y | | R | 22 | 120 | 24 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Bis(2-ethylhexyl) phthalate | 5/30/2012 | 130 | No | Y | J | R | 22 | 150 | 87 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Di-n-octyl phthalate | 5/30/2012 | 120 | No | N | UJ | R | 22 | 120 | 35 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Pyrene | 5/30/2012 | 1300 | No | Y | | R | 22 | 120 | 12 | ug/kg |
| MS006-SS-120515 | 12-8899-UU52GD | Anthracene | 5/30/2012 | 200 | No | Y | | R | 22 | 120 | 27 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 540 | Yes | Y | | | | 59 | 8.1 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Benzo(a)anthracene | 5/26/2012 | 180 | Yes | Y | | | | 59 | 9.7 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Fluoranthene | 5/26/2012 | 1100 | Yes | Y | | | | 59 | 8.6 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Acenaphthylene | 5/26/2012 | 140 | Yes | Y | | | | 59 | 17 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS007-SS-120515 | 12-8900-UU52H | Chrysene | 5/26/2012 | 290 | Yes | Y | | | | 59 | 11 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Retene | 5/26/2012 | 85 | Yes | Y | | | | 59 | 59 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Benzo(a)pyrene | 5/26/2012 | 270 | Yes | Y | | | | 59 | 16 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Dibenzo(a,h)anthracene | 5/26/2012 | 59 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 190 | Yes | Y | | | | 59 | 14 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Acenaphthene | 5/26/2012 | 130 | Yes | Y | | | | 59 | 9.6 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Phenanthrene | 5/26/2012 | 1100 | Yes | Y | | | | 59 | 11 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Butylbenzyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 18 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Fluorene | 5/26/2012 | 120 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Carbazole | 5/26/2012 | 62 | Yes | Y | | | | 59 | 7.9 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Pentachlorophenol | 5/26/2012 | 590 | Yes | N | U | | | 590 | 140 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Benzo(g,h,i)perylene | 5/26/2012 | 250 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | 2-Methylnaphthalene | 5/26/2012 | 290 | Yes | Y | | J | 8 | 59 | 9.0 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Benzoic acid | 5/26/2012 | 1300 | Yes | Y | | J | 8,10 | 1200 | 300 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Naphthalene | 5/26/2012 | 2200 | Yes | Y | | | | 59 | 8.1 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | 4-Methylphenol (p-Cresol) | 5/26/2012 | 1800 | Yes | Y | | J | 8 | 120 | 19 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Dimethyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 8.5 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Pyrene | 5/26/2012 | 960 | Yes | Y | | | | 59 | 5.7 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Anthracene | 5/26/2012 | 170 | Yes | Y | | | | 59 | 13 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Di-n-octyl phthalate | 5/26/2012 | 59 | Yes | N | UJ | | | 59 | 17 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 120 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Dibenzofuran | 5/26/2012 | 210 | Yes | Y | | | | 59 | 12 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Phenol | 5/26/2012 | 430 | Yes | Y | | J | 8 | 59 | 25 | ug/kg |
| MS007-SS-120515 | 12-8900-UU52H | Di-n-butyl phthalate | 5/26/2012 | 59 | Yes | N | U | | | 59 | 24 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Dibenzo(a,h)anthracene | 5/29/2012 | 54 | Yes | Y | J | | | 60 | 13 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | Benzo(a)pyrene | 5/29/2012 | 220 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Retene | 5/29/2012 | 60 | Yes | N | U | | | 60 | 60 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Chrysene | 5/29/2012 | 240 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Acenaphthylene | 5/29/2012 | 39 | Yes | Y | J | | | 60 | 17 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Fluoranthene | 5/29/2012 | 600 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Benzo(a)anthracene | 5/29/2012 | 190 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Benzo(g,h,i)perylene | 5/29/2012 | 170 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Butylbenzyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Indeno(1,2,3-c,d)pyrene | 5/29/2012 | 140 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Benzoic acid | 5/29/2012 | 740 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Acenaphthene | 5/29/2012 | 57 | Yes | Y | J | | | 60 | 9.8 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Phenanthrene | 5/29/2012 | 480 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Pyrene | 5/29/2012 | 460 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Fluorene | 5/29/2012 | 66 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Carbazole | 5/29/2012 | 63 | Yes | Y | | | | 60 | 8.0 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Pentachlorophenol | 5/29/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Naphthalene | 5/29/2012 | 460 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | 2-Methylnaphthalene | 5/29/2012 | 66 | Yes | Y | | | | 60 | 9.1 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Benzo(b,j,k)fluoranthenes | 5/29/2012 | 420 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Di-n-butyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Anthracene | 5/29/2012 | 110 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Di-n-octyl phthalate | 5/29/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Bis(2-ethylhexyl) phthalate | 5/29/2012 | 98 | Yes | Y | | | | 75 | 44 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Phenol | 5/29/2012 | 190 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | 4-Methylphenol (p-Cresol) | 5/29/2012 | 610 | Yes | Y | | | | 120 | 20 | ug/kg |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS008-SS-120515 | 12-8901-UU52I | Dibenzofuran | 5/29/2012 | 69 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS008-SS-120515 | 12-8901-UU52I | Dimethyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 8.7 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Benzo(g,h,i)perylene | 5/29/2012 | 80 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Dibenzo(a,h)anthracene | 5/29/2012 | 60 | Yes | N | U | | | 60 | 13 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Benzo(a)pyrene | 5/29/2012 | 80 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Chrysene | 5/29/2012 | 120 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Acenaphthylene | 5/29/2012 | 60 | Yes | N | U | | | 60 | 17 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Benzo(a)anthracene | 5/29/2012 | 57 | Yes | Y | J | | | 60 | 9.8 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Indeno(1,2,3-c,d)pyrene | 5/29/2012 | 63 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Di-n-butyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Dibenzofuran | 5/29/2012 | 54 | Yes | Y | J | | | 60 | 12 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Fluoranthene | 5/29/2012 | 290 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Pentachlorophenol | 5/29/2012 | 600 | Yes | N | U | | | 600 | 140 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Benzoic acid | 5/29/2012 | 410 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Acenaphthene | 5/29/2012 | 60 | Yes | N | U | | | 60 | 9.8 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Phenanthrene | 5/29/2012 | 250 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Butylbenzyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Fluorene | 5/29/2012 | 42 | Yes | Y | J | | | 60 | 13 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Carbazole | 5/29/2012 | 60 | Yes | N | U | | | 60 | 8.0 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Naphthalene | 5/29/2012 | 290 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Benzo(b,j,k)fluoranthenes | 5/29/2012 | 180 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Retene | 5/29/2012 | 60 | Yes | N | U | | | 60 | 60 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Dimethyl phthalate | 5/29/2012 | 60 | Yes | N | U | | | 60 | 8.6 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | 2-Methylnaphthalene | 5/29/2012 | 36 | Yes | Y | J | | | 60 | 9.1 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Anthracene | 5/29/2012 | 51 | Yes | Y | J | | | 60 | 13 | ug/kg |

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|--------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS009-SS-120515 | 12-8902-UU52J | Di-n-octyl phthalate | 5/29/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Bis(2-ethylhexyl) phthalate | 5/29/2012 | 90 | Yes | Y | | | | 75 | 44 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Phenol | 5/29/2012 | 100 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | 4-Methylphenol (p-Cresol) | 5/29/2012 | 470 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS009-SS-120515 | 12-8902-UU52J | Pyrene | 5/29/2012 | 240 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Dibenzofuran | 5/26/2012 | 280 | Yes | Y | | | | 60 | 12 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Dimethyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 8.6 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Pyrene | 5/26/2012 | 910 | Yes | Y | | | | 60 | 5.8 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Anthracene | 5/26/2012 | 180 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Di-n-octyl phthalate | 5/26/2012 | 60 | Yes | N | UJ | | | 60 | 17 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Bis(2-ethylhexyl) phthalate | 5/26/2012 | 120 | Yes | Y | | | | 74 | 43 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Phenol | 5/26/2012 | 400 | Yes | Y | | | | 60 | 26 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | 4-Methylphenol (p-Cresol) | 5/26/2012 | 1600 | Yes | Y | | | | 120 | 20 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Phenanthrene | 5/26/2012 | 1200 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Benzo(g,h,i)perylene | 5/26/2012 | 330 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Acenaphthene | 5/26/2012 | 160 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Chrysene | 5/26/2012 | 400 | Yes | Y | | | | 60 | 11 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Benzoic acid | 5/26/2012 | 640 | Yes | Y | J | J | 10 | 1200 | 300 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Benzo(a)anthracene | 5/26/2012 | 170 | Yes | Y | | | | 60 | 9.8 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Dibenzo(a,h)anthracene | 5/26/2012 | 54 | Yes | Y | J | | | 60 | 13 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Benzo(a)pyrene | 5/26/2012 | 270 | Yes | Y | | | | 60 | 16 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Retene | 5/26/2012 | 100 | Yes | Y | | | | 60 | 60 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Di-n-butyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 24 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Pentachlorophenol | 5/26/2012 | 160 | Yes | Y | J | | | 600 | 140 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | 2-Methylnaphthalene | 5/26/2012 | 270 | Yes | Y | | | | 60 | 9.1 | ug/kg. |

SDG: UU52

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|----------------|--------|----------|----------|--------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS101-SS-120515 | 12-8894-UU52B | Fluoranthene | 5/26/2012 | 970 | Yes | Y | | | | 60 | 8.7 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Indeno(1,2,3-c,d)pyrene | 5/26/2012 | 230 | Yes | Y | | | | 60 | 14 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Naphthalene | 5/26/2012 | 1800 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Carbazole | 5/26/2012 | 57 | Yes | Y | J | | | 60 | 8.0 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Fluorene | 5/26/2012 | 170 | Yes | Y | | | | 60 | 13 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Butylbenzyl phthalate | 5/26/2012 | 60 | Yes | N | U | | | 60 | 18 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Benzo(b,j,k)fluoranthenes | 5/26/2012 | 640 | Yes | Y | | | | 60 | 8.2 | ug/kg |
| MS101-SS-120515 | 12-8894-UU52B | Acenaphthylene | 5/26/2012 | 130 | Yes | Y | | | | 60 | 17 | ug/kg |

| Analytical Method | | SW9060M | | | | | | | | | | |
|-------------------|---------------|----------------------|-----------|--------|----------------|--------|----------|----------|--------|-------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-8893-UU52A | Total organic carbon | 5/24/2012 | 19.6 | Yes | Y | | | | 0.194 | 0.02813 | pct |
| MS002-SS-120515 | 12-8895-UU52C | Total organic carbon | 5/24/2012 | 17.1 | Yes | Y | | | | 0.194 | 0.02813 | pct |
| MS003-SS-120515 | 12-8896-UU52D | Total organic carbon | 5/24/2012 | 23.6 | Yes | Y | | | | 0.200 | 0.02900 | pct |
| MS004-SS-120515 | 12-8897-UU52E | Total organic carbon | 5/24/2012 | 17.9 | Yes | Y | | | | 0.184 | 0.02668 | pct |
| MS005-SS-120515 | 12-8898-UU52F | Total organic carbon | 5/24/2012 | 29 | Yes | Y | | | | 0.192 | 0.02784 | pct |
| MS006-SS-120515 | 12-8899-UU52G | Total organic carbon | 5/24/2012 | 31.9 | Yes | Y | | | | 0.208 | 0.03016 | pct |
| MS007-SS-120515 | 12-8900-UU52H | Total organic carbon | 5/24/2012 | 16.7 | Yes | Y | | | | 0.196 | 0.02842 | pct |
| MS008-SS-120515 | 12-8901-UU52I | Total organic carbon | 5/24/2012 | 22.5 | Yes | Y | | | | 0.200 | 0.02900 | pct |
| MS009-SS-120515 | 12-8902-UU52J | Total organic carbon | 5/24/2012 | 12.2 | Yes | Y | | | | 0.190 | 0.02755 | pct |
| MS010-SS-120515 | 12-8903-UU52K | Total organic carbon | 5/24/2012 | 11.8 | Yes | Y | | | | 0.164 | 0.02378 | pct |
| MS101-SS-120515 | 12-8894-UU52B | Total organic carbon | 5/24/2012 | 18.4 | Yes | Y | | | | 0.186 | 0.02697 | pct |

SDG: UU62

| Analytical Method | | E200.8 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|--------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Arsenic | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.048 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Cadmium | 5/23/2012 | 0.1 | Yes | N | U | | | 0.1 | 0.010 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Antimony | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.010 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Silver | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.0080 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Cadmium | 5/23/2012 | 0.1 | Yes | N | U | | | 0.1 | 0.010 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Silver | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.0080 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Arsenic | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.048 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Antimony | 5/23/2012 | 0.2 | Yes | N | U | | | 0.2 | 0.010 | ug/L |

| Analytical Method | | E350.1M | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Ammonia | 5/21/2012 | 20.8 | Yes | Y | | | | 0.96 | 0.03000 | mg/kg |
| MS012-SS-120515 | 12-8930-UU62C | Ammonia | 5/21/2012 | 155 | Yes | Y | | | | 2.02 | 0.06000 | mg/kg |
| MS013-SS-120515 | 12-8931-UU62D | Ammonia | 5/21/2012 | 107 | Yes | Y | | | | 2.01 | 0.06000 | mg/kg |
| MS014-SS-120515 | 12-8932-UU62E | Ammonia | 5/21/2012 | 204 | Yes | Y | | | | 5.27 | 0.15000 | mg/kg |
| MS015-SS-120515 | 12-8933-UU62F | Ammonia | 5/21/2012 | 121 | Yes | Y | | | | 1.89 | 0.06000 | mg/kg |
| MS016-SS-120515 | 12-8934-UU62G | Ammonia | 5/21/2012 | 129 | Yes | Y | | | | 1.70 | 0.06000 | mg/kg |
| MS017-SS-120515 | 12-8935-UU62H | Ammonia | 5/21/2012 | 117 | Yes | Y | | | | 1.23 | 0.03000 | mg/kg |
| MS018-SS-120515 | 12-8936-UU62I | Ammonia | 5/21/2012 | 130 | Yes | Y | | | | 1.80 | 0.06000 | mg/kg |
| MS110-SS-120515 | 12-8928-UU62A | Ammonia | 5/21/2012 | 95.6 | Yes | Y | | | | 0.97 | 0.03000 | mg/kg |

| Analytical Method | | E376.2 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Sulfide | 5/18/2012 | 8.88 | Yes | N | U | | | 8.88 | 0.00750 | mg/kg |
| MS012-SS-120515 | 12-8930-UU62C | Sulfide | 5/18/2012 | 2180 | Yes | Y | | | | 189 | 0.15000 | mg/kg |
| MS013-SS-120515 | 12-8931-UU62D | Sulfide | 5/18/2012 | 1520 | Yes | Y | | | | 103 | 0.07500 | mg/kg |
| MS014-SS-120515 | 12-8932-UU62E | Sulfide | 5/18/2012 | 4450 | Yes | Y | | | | 441 | 0.37500 | mg/kg |

SDG: UU62

| Analytical Method | | E376.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS015-SS-120515 | 12-8933-UU62F | Sulfide | 5/18/2012 | 2130 | Yes | Y | | | | 178 | 0.15000 | mg/kg |
| MS016-SS-120515 | 12-8934-UU62G | Sulfide | 5/18/2012 | 702 | Yes | Y | | | | 89.5 | 0.07500 | mg/kg |
| MS017-SS-120515 | 12-8935-UU62H | Sulfide | 5/18/2012 | 2450 | Yes | Y | | | | 131 | 0.07500 | mg/kg |
| MS018-SS-120515 | 12-8936-UU62I | Sulfide | 5/18/2012 | 2960 | Yes | Y | | | | 190 | 0.15000 | mg/kg |
| MS110-SS-120515 | 12-8928-UU62A | Sulfide | 5/18/2012 | 1750 | Yes | Y | | | | 91.4 | 0.07500 | mg/kg |
| Analytical Method | | NWTPHDx | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Motor Oil Range | 5/21/2012 | 0.2 | Yes | N | U | | | 0.20 | 0.01 | mg/L |
| MS-SSFB-120515 | 12-8938-UU62K | Diesel Range Hydrocarbons | 5/21/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.04 | mg/L |
| MS-SSRB-120515 | 12-8937-UU62J | Motor Oil Range | 5/21/2012 | 0.2 | Yes | N | U | | | 0.20 | 0.01 | mg/L |
| MS-SSRB-120515 | 12-8937-UU62J | Diesel Range Hydrocarbons | 5/21/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.04 | mg/L |
| Analytical Method | | PSEP | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Silt, Medium | 5/25/2012 | 1.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Clay, Medium | 5/25/2012 | 2.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Silt, Very Fine | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Fines (silt + clay) | 5/25/2012 | 20.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Silt, Coarse | 5/25/2012 | 0.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Sand, Very Fine | 5/25/2012 | 4.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Sand, Very Coarse | 5/25/2012 | 17.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Sand, Medium | 5/25/2012 | 11.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Sand, Fine | 5/25/2012 | 7.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Sand, Coarse | 5/25/2012 | 14.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Silt, Fine | 5/25/2012 | 3.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Clay, Coarse | 5/25/2012 | 3.2 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU62

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Gravel | 5/25/2012 | 23.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS011-SS-120515 | 12-8929-UU62B | Clay, Fine | 5/25/2012 | 5.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Silt, Coarse | 5/25/2012 | 4.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Silt, Fine | 5/25/2012 | 6.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Silt, Medium | 5/25/2012 | 18.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Clay, Coarse | 5/25/2012 | 1.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Sand, Very Fine | 5/25/2012 | 1.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Silt, Very Fine | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Sand, Fine | 5/25/2012 | 2.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Clay, Medium | 5/25/2012 | 2.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Sand, Very Coarse | 5/25/2012 | 11 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Clay, Fine | 5/25/2012 | 15.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Fines (silt + clay) | 5/25/2012 | 53 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Gravel | 5/25/2012 | 21.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Sand, Coarse | 5/25/2012 | 5.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Sand, Medium | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Sand, Coarse | 5/25/2012 | 7.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Sand, Fine | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Sand, Medium | 5/25/2012 | 3.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Clay, Fine | 5/25/2012 | 9.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Sand, Very Coarse | 5/25/2012 | 11.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Sand, Very Fine | 5/25/2012 | 1.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Silt, Coarse | 5/25/2012 | 4.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Silt, Fine | 5/25/2012 | 11.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Fines (silt + clay) | 5/25/2012 | 48 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU62

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS013-SS-120515 | 12-8931-UU62D | Silt, Medium | 5/25/2012 | 12.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Clay, Medium | 5/25/2012 | 0.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Silt, Very Fine | 5/25/2012 | 6.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Clay, Coarse | 5/25/2012 | 2.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Gravel | 5/25/2012 | 23.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Silt, Fine | 5/25/2012 | 11.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Clay, Coarse | 5/25/2012 | 4.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Silt, Medium | 5/25/2012 | 7.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Clay, Fine | 5/25/2012 | 11.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Fines (silt + clay) | 5/25/2012 | 54.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Gravel | 5/25/2012 | 6.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Sand, Coarse | 5/25/2012 | 10.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Sand, Fine | 5/25/2012 | 4.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Sand, Medium | 5/25/2012 | 7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Sand, Very Coarse | 5/25/2012 | 13.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Sand, Very Fine | 5/25/2012 | 3.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Silt, Coarse | 5/25/2012 | 1.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Silt, Very Fine | 5/25/2012 | 12.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Clay, Medium | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Fines (silt + clay) | 5/25/2012 | 56 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Silt, Very Fine | 5/25/2012 | 12.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Silt, Medium | 5/25/2012 | 11.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Silt, Fine | 5/25/2012 | 11.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Silt, Coarse | 5/25/2012 | 2.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Sand, Very Fine | 5/25/2012 | 1.5 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU62

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS015-SS-120515 | 12-8933-UU62F | Sand, Very Coarse | 5/25/2012 | 11.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Sand, Medium | 5/25/2012 | 4.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Sand, Fine | 5/25/2012 | 2.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Gravel | 5/25/2012 | 16.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Clay, Medium | 5/25/2012 | 2.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Clay, Fine | 5/25/2012 | 10.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Clay, Coarse | 5/25/2012 | 4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Sand, Coarse | 5/25/2012 | 7.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Sand, Medium | 5/25/2012 | 7.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Silt, Very Fine | 5/25/2012 | 9.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Clay, Fine | 5/25/2012 | 8.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Clay, Medium | 5/25/2012 | 2.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Fines (silt + clay) | 5/25/2012 | 43.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Gravel | 5/25/2012 | 17.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Sand, Coarse | 5/25/2012 | 10.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Clay, Coarse | 5/25/2012 | 2.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Silt, Medium | 5/25/2012 | 8.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Sand, Very Coarse | 5/25/2012 | 14 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Sand, Very Fine | 5/25/2012 | 2.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Silt, Fine | 5/25/2012 | 12.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Silt, Coarse | 5/25/2012 | 0.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Sand, Fine | 5/25/2012 | 4.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Silt, Very Fine | 5/25/2012 | 8.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Silt, Medium | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Clay, Coarse | 5/25/2012 | 2.4 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU62

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS017-SS-120515 | 12-8935-UU62H | Clay, Fine | 5/25/2012 | 11.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Clay, Medium | 5/25/2012 | 2.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Fines (silt + clay) | 5/25/2012 | 37.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Silt, Fine | 5/25/2012 | 9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Sand, Very Fine | 5/25/2012 | 3.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Sand, Very Coarse | 5/25/2012 | 14.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Sand, Medium | 5/25/2012 | 8.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Sand, Fine | 5/25/2012 | 5.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Sand, Coarse | 5/25/2012 | 11.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Gravel | 5/25/2012 | 19.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Silt, Coarse | 5/25/2012 | 0.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Sand, Very Fine | 5/25/2012 | 2.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Silt, Very Fine | 5/25/2012 | 7.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Silt, Fine | 5/25/2012 | 12.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Sand, Medium | 5/25/2012 | 3.3 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Sand, Fine | 5/25/2012 | 2.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Sand, Coarse | 5/25/2012 | 4.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Gravel | 5/25/2012 | 16.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Fines (silt + clay) | 5/25/2012 | 61.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Sand, Very Coarse | 5/25/2012 | 8.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Clay, Medium | 5/25/2012 | 4.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Clay, Fine | 5/25/2012 | 12.9 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Clay, Coarse | 5/25/2012 | 4.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Silt, Medium | 5/25/2012 | 17.7 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Silt, Coarse | 5/25/2012 | 1.8 | Yes | Y | | | | 0.1 | 0.1 | pct |

SDG: UU62

| Analytical Method | | PSEP | | | | | | | | | | |
|-------------------|---------------|---------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS110-SS-120515 | 12-8928-UU62A | Sand, Very Fine | 5/25/2012 | 3.8 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Silt, Very Fine | 5/25/2012 | 15.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Silt, Medium | 5/25/2012 | 9.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Silt, Coarse | 5/25/2012 | 2.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Clay, Coarse | 5/25/2012 | 5.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Clay, Fine | 5/25/2012 | 12 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Sand, Very Coarse | 5/25/2012 | 14.2 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Sand, Medium | 5/25/2012 | 6.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Sand, Fine | 5/25/2012 | 5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Clay, Medium | 5/25/2012 | 4.1 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Fines (silt + clay) | 5/25/2012 | 58.5 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Sand, Coarse | 5/25/2012 | 9.4 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Gravel | 5/25/2012 | 2.6 | Yes | Y | | | | 0.1 | 0.1 | pct |
| MS110-SS-120515 | 12-8928-UU62A | Silt, Fine | 5/25/2012 | 9.5 | Yes | Y | | | | 0.1 | 0.1 | pct |

| Analytical Method | | SM2540B | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Total solids | 5/22/2012 | 9.8 | Yes | Y | | | | 0.01 | | pct |
| MS012-SS-120515 | 12-8930-UU62C | Total solids | 5/22/2012 | 9.7 | Yes | Y | | | | 0.01 | | pct |
| MS013-SS-120515 | 12-8931-UU62D | Total solids | 5/22/2012 | 9.3 | Yes | Y | | | | 0.01 | | pct |
| MS014-SS-120515 | 12-8932-UU62E | Total solids | 5/22/2012 | 9.8 | Yes | Y | | | | 0.01 | | pct |
| MS015-SS-120515 | 12-8933-UU62F | Total solids | 5/22/2012 | 10.3 | Yes | Y | | | | 0.01 | | pct |
| MS016-SS-120515 | 12-8934-UU62G | Total solids | 5/22/2012 | 12.4 | Yes | Y | | | | 0.01 | | pct |
| MS017-SS-120515 | 12-8935-UU62H | Total solids | 5/22/2012 | 8.4 | Yes | Y | | | | 0.01 | | pct |
| MS018-SS-120515 | 12-8936-UU62I | Total solids | 5/22/2012 | 11.7 | Yes | Y | | | | 0.01 | | pct |
| MS110-SS-120515 | 12-8928-UU62A | Total solids | 5/22/2012 | 10.4 | Yes | Y | | | | 0.01 | | pct |

SDG: UU62

| Analytical Method | | SM2540B-PRES | | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|----------------|--------|----------|----------|--------|------|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Total solids (preserved) | 5/21/2012 | 11 | Yes | Y | | | | 0.01 | | pct |
| MS012-SS-120515 | 12-8930-UU62C | Total solids (preserved) | 5/21/2012 | 10.5 | Yes | Y | | | | 0.01 | | pct |
| MS013-SS-120515 | 12-8931-UU62D | Total solids (preserved) | 5/21/2012 | 9.6 | Yes | Y | | | | 0.01 | | pct |
| MS014-SS-120515 | 12-8932-UU62E | Total solids (preserved) | 5/21/2012 | 10.8 | Yes | Y | | | | 0.01 | | pct |
| MS015-SS-120515 | 12-8933-UU62F | Total solids (preserved) | 5/21/2012 | 11 | Yes | Y | | | | 0.01 | | pct |
| MS016-SS-120515 | 12-8934-UU62G | Total solids (preserved) | 5/21/2012 | 11 | Yes | Y | | | | 0.01 | | pct |
| MS017-SS-120515 | 12-8935-UU62H | Total solids (preserved) | 5/21/2012 | 7.4 | Yes | Y | | | | 0.01 | | pct |
| MS018-SS-120515 | 12-8936-UU62I | Total solids (preserved) | 5/21/2012 | 11.1 | Yes | Y | | | | 0.01 | | pct |
| MS110-SS-120515 | 12-8928-UU62A | Total solids (preserved) | 5/21/2012 | 10.7 | Yes | Y | | | | 0.01 | | pct |

| Analytical Method | | SW6010C | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Chromium | 5/29/2012 | 5 | Yes | N | U | | | 5 | 1.2 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Lead | 5/29/2012 | 20 | Yes | N | U | | | 20 | 1.6 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Nickel | 5/29/2012 | 10 | Yes | N | U | | | 10 | 3.9 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Zinc | 5/29/2012 | 10 | Yes | N | U | | | 10 | 1.4 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Copper | 5/29/2012 | 7 | Yes | Y | | | | 2 | 0.92 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Chromium | 5/29/2012 | 5 | Yes | N | U | | | 5 | 1.2 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Lead | 5/29/2012 | 20 | Yes | N | U | | | 20 | 1.6 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Nickel | 5/29/2012 | 10 | Yes | N | U | | | 10 | 3.9 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Copper | 5/29/2012 | 2 | Yes | N | U | | | 2 | 0.92 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Zinc | 5/29/2012 | 10 | Yes | N | U | | | 10 | 1.4 | ug/L |

| Analytical Method | | SW7470A | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|--------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Mercury | 5/21/2012 | 0.1 | Yes | N | U | | | 0.1 | 0.0069 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Mercury | 5/21/2012 | 0.1 | Yes | N | U | | | 0.1 | 0.0069 | ug/L |

SDG: UU62

| Analytical Method | | SW8081B | | | | | | | | | | |
|-------------------|---------------|------------------------------------|-----------|--------|----------------|--------|----------|----------|--------|-------|--------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | 4,4'-DDT (p,p'-DDT) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.017 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Endrin ketone | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.015 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Hexachlorocyclohexane, beta- (BHC) | 5/24/2012 | 0.05 | Yes | N | U | | | 0.050 | 0.0098 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | 4,4'-DDD (p,p'-DDD) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.019 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | 4,4'-DDE (p,p'-DDE) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.018 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Dieldrin | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.017 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | 4,4'-DDE (p,p'-DDE) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.018 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Hexachlorocyclohexane, beta- (BHC) | 5/24/2012 | 0.05 | Yes | N | U | | | 0.050 | 0.0098 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | 4,4'-DDT (p,p'-DDT) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.017 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | 4,4'-DDD (p,p'-DDD) | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.019 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Dieldrin | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.017 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Endrin ketone | 5/24/2012 | 0.1 | Yes | N | U | | | 0.10 | 0.015 | ug/L |

| Analytical Method | | SW8082 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1016 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.13 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1254 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1248 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1242 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1260 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1268 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1232 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1221 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Aroclor 1262 | 5/23/2012 | 1 | Yes | N | U | | | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1242 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1254 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |

SDG: UU62

| Analytical Method | | SW8082 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|----------------|--------|----------|----------|--------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1260 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1268 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1262 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1016 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.13 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1248 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1232 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Aroclor 1221 | 5/23/2012 | 1 | Yes | N | U | UJ | 13 | 1.0 | 0.15 | ug/L |

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Phenol | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Bis(2-ethylhexyl) phthalate | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 1.0 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Di-n-octyl phthalate | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.51 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Anthracene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.53 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Pyrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Dimethyl phthalate | 5/24/2012 | 0.8 | Yes | Y | J | | | 1.0 | 0.53 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | 4-Methylphenol (p-Cresol) | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Acenaphthene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Benzo(b,j,k)fluoranthenes | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | 2-Methylnaphthalene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Naphthalene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Pentachlorophenol | 5/24/2012 | 5 | Yes | N | U | UJ | 5 | 5.0 | 2.4 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Carbazole | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.31 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Fluorene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.56 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Butylbenzyl phthalate | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.56 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Di-n-butyl phthalate | 5/24/2012 | 3.7 | Yes | Y | | | | 1.0 | 0.54 | ug/L |

SDG: UU62

| Analytical Method | | SW8270D | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|----------------|--------|----------|----------|--------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSFB-120515 | 12-8938-UU62K | Phenanthrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.56 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Benzo(g,h,i)perylene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Benzoic acid | 5/24/2012 | 10 | Yes | N | U | | | 10 | 5.1 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Benzo(a)anthracene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Dibenzo(a,h)anthracene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Benzo(a)pyrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Retene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.44 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Chrysene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Acenaphthylene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Fluoranthene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Indeno(1,2,3-c,d)pyrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSFB-120515 | 12-8938-UU62K | Dibenzofuran | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Bis(2-ethylhexyl) phthalate | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 1.0 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Benzo(b,j,k)fluoranthenes | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Benzo(g,h,i)perylene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Phenol | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Fluorene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.56 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | 4-Methylphenol (p-Cresol) | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Phenanthrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.56 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Di-n-butyl phthalate | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.54 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Acenaphthene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Pentachlorophenol | 5/24/2012 | 5 | Yes | N | U | UJ | 5 | 5.0 | 2.4 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Dibenzofuran | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Carbazole | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.31 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Indeno(1,2,3-c,d)pyrene | 5/24/2012 | 1 | Yes | N | U | | | 1.0 | 0.48 | ug/L |

SDG: UU62

| Analytical Method | | SW8270D | | | | | | | | | | | |
|-------------------|---------------|------------------------|-----------|--------|---------|--------|--------|----------|----------|--------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res | Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS-SSRB-120515 | 12-8937-UU62J | Fluoranthene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Acenaphthylene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Chrysene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Retene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.44 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Benzo(a)pyrene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Dibenzo(a,h)anthracene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Benzoic acid | 5/24/2012 | 10 | | Yes | N | U | | | 10 | 5.1 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | 2-Methylnaphthalene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.48 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Benzo(a)anthracene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Di-n-octyl phthalate | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.51 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Anthracene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.53 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Pyrene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.55 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Dimethyl phthalate | 5/24/2012 | 0.9 | | Yes | Y | J | | | 1.0 | 0.53 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Naphthalene | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.52 | ug/L |
| MS-SSRB-120515 | 12-8937-UU62J | Butylbenzyl phthalate | 5/24/2012 | 1 | | Yes | N | U | | | 1.0 | 0.56 | ug/L |

| Analytical Method | | SW9060M | | | | | | | | | | | |
|-------------------|---------------|----------------------|-----------|--------|---------|--------|--------|----------|----------|--------|-------|---------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res | Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS011-SS-120515 | 12-8929-UU62B | Total organic carbon | 5/24/2012 | 31.5 | | Yes | Y | | | | 0.198 | 0.02871 | pct |
| MS012-SS-120515 | 12-8930-UU62C | Total organic carbon | 5/24/2012 | 22.6 | | Yes | Y | | | | 0.200 | 0.02900 | pct |
| MS013-SS-120515 | 12-8931-UU62D | Total organic carbon | 5/24/2012 | 18.8 | | Yes | Y | | | | 0.194 | 0.02813 | pct |
| MS014-SS-120515 | 12-8932-UU62E | Total organic carbon | 5/24/2012 | 16.9 | | Yes | Y | | | | 0.192 | 0.02784 | pct |
| MS015-SS-120515 | 12-8933-UU62F | Total organic carbon | 5/24/2012 | 14.3 | | Yes | Y | | | | 0.200 | 0.02900 | pct |
| MS016-SS-120515 | 12-8934-UU62G | Total organic carbon | 5/24/2012 | 19.6 | | Yes | Y | | | | 0.194 | 0.02813 | pct |
| MS017-SS-120515 | 12-8935-UU62H | Total organic carbon | 5/24/2012 | 21.8 | | Yes | Y | | | | 0.198 | 0.02871 | pct |
| MS018-SS-120515 | 12-8936-UU62I | Total organic carbon | 5/24/2012 | 18 | | Yes | Y | | | | 0.198 | 0.02871 | pct |

SDG: UU62

| Analytical Method | SW9060M | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|----------------|----------------------|-----------------|-----------------|---------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res | Report Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS110-SS-120515 | 12-8928-UU62A | Total organic carbon | 5/24/2012 | 15.7 | | Yes Y | | | | 0.200 | 0.02900 | pct |

SDG: UW85

| Analytical Method | | WAEPH | | | | | | | | | | |
|-------------------|----------------|--------------------|-----------|--------|----------------|--------|----------|----------|--------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS001-SS-120515 | 12-10066-UW85A | C21-C34 Aliphatics | 6/8/2012 | 180000 | Yes | Y | | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C16-C21 Aliphatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C12-C16 Aliphatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C10-C12 Aliphatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C8-C10 Aliphatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C21-C34 Aromatics | 6/8/2012 | 31000 | Yes | Y | | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C16-C21 Aromatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C12-C16 Aromatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C10-C12 Aromatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS001-SS-120515 | 12-10066-UW85A | C8-C10 Aromatics | 6/8/2012 | 20000 | Yes | N | U | | | 20000 | 20000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C16-C21 Aliphatics | 6/8/2012 | 29000 | Yes | Y | | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C21-C34 Aliphatics | 6/8/2012 | 190000 | Yes | Y | | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C12-C16 Aliphatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C10-C12 Aliphatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C8-C10 Aliphatics | 6/8/2012 | 19000 | Yes | Y | | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C12-C16 Aromatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C8-C10 Aromatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C16-C21 Aromatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C10-C12 Aromatics | 6/8/2012 | 19000 | Yes | N | U | | | 19000 | 19000 | ug/kg |
| MS002-SS-120515 | 12-10067-UW85B | C21-C34 Aromatics | 6/8/2012 | 48000 | Yes | Y | | | | 19000 | 19000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C8-C10 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C10-C12 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C12-C16 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C16-C21 Aliphatics | 6/8/2012 | 38000 | Yes | Y | | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C21-C34 Aliphatics | 6/8/2012 | 160000 | Yes | Y | | | | 21000 | 21000 | ug/kg |

SDG: UW85

| Analytical Method | | WAEPH | | | | | | | | | | |
|-------------------|----------------|--------------------|-----------|--------|----------------|--------|----------|----------|--------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Mod Res Report | Detect | Lab Qual | Val Qual | Reason | RL | MDL | Units |
| MS003-SS-120515 | 12-10068-UW85C | C21-C34 Aromatics | 6/8/2012 | 53000 | Yes | Y | | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C8-C10 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C10-C12 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C12-C16 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS003-SS-120515 | 12-10068-UW85C | C16-C21 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C21-C34 Aliphatics | 6/8/2012 | 120000 | Yes | Y | | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C10-C12 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C8-C10 Aliphatics | 6/8/2012 | 21000 | Yes | Y | | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C12-C16 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C16-C21 Aliphatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C10-C12 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C16-C21 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C8-C10 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C21-C34 Aromatics | 6/8/2012 | 30000 | Yes | Y | | | | 21000 | 21000 | ug/kg |
| MS006-SS-120515 | 12-10069-UW85D | C12-C16 Aromatics | 6/8/2012 | 21000 | Yes | N | U | | | 21000 | 21000 | ug/kg |