Groundwater Monitoring Report Cover Sheet

Site Name: Coakley Landfill

Town: North Hampton

Permit #: 198712001

Type of Submittal (*Check all that apply*)

☒ Periodic Summary Report (*year*) : 2012

☐ Data Submittal (*month and year per Condition #7 of Permit*):

Check each box where the answer to any of the following questions is "YES"

Sampling Results

☒ During the most recent monitoring event, were any new compounds detected at any sampling point?
Well/Compound: OP-2/lead; FPC-2A/Chromium;
FPC-6A, FPC-6B, FPC-8A, R-3/1,4-Dioxane;

☒ Are there any detections of contamination in drinking water that is untreated prior to use?
Well/Compound: R-3/1,4-Dioxane
□ Do compounds detected exceed AGQS?

☐ Was free product detected for the first time in any monitoring point?
☐ Surface Water (*visible sheen*)
☐ Groundwater (*1/8" or greater thickness*)
Location/Thickness:

Contaminant Trends

☐ Do sampling results show an increasing concentration trend in any source area monitoring well?
Well/Compound:

☐ Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?
Well/Compound:

Recommendations

☐ Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.

DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095

2012 ANNUAL REPORT
Coakley Landfill
480 Breakfast Hill Road
North Hampton, NH

NHDES Site #: 198712001
Project Type: CERCLA
Project Number: 431
EPA ID #NHD064424153

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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 AUGUST 2012 MONITORING AND SAMPLING PROCEDURES 2
- 2.1 Groundwater Sampling Procedures 2
- 2.2 Surface Water and Sediment Sampling Procedures 3
- 2.3 Quality Control Samples 4

3.0 FINDINGS 5
- 3.1 EMP Monitoring Groundwater Results 5
- 3.2 Leachate Sample Results 6
- 3.3 Quality Control Sample Results 7
- 3.4 Data Validation Review 7
- 3.5 Field Data Review 7

4.0 TRENDS AND CLEANUP PROGRESS 8

5.0 SUMMARY AND CONCLUSIONS 9

6.0 RECOMMENDATIONS 11

FIGURES
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Contours – August 2012 – Overburden Wells
- Figure 4: Groundwater Contours – August 2012 – Bedrock Wells
- Figure 5: Lateral Distribution of Arsenic in Overburden Wells
- Figure 6: Lateral Distribution of Manganese in Overburden Wells
- Figure 7: Lateral Distribution of Arsenic in Bedrock Wells
- Figure 8: Lateral Distribution of Manganese in Bedrock Wells
- Figure 9: Lateral Distribution of 1,4-Dioxane in Overburden and Bedrock Wells
- Figure 10: Cross Section A-A' Showing Dissolved Arsenic
- Figure 11: Cross Section B-B' Showing Dissolved Arsenic
- Figure 12: Cross Section A-A' Showing Dissolved Manganese
- Figure 13: Cross Section B-B' Showing Dissolved Manganese
- Figure 14: Cross Section A-A' Showing 1,4-Dioxane
- Figure 15: Cross Section B-B' Showing 1,4-Dioxane

TABLES
- Table 1: Groundwater Elevation Data
- Table 2: Summary of OU-1 Groundwater Analytical Results
- Table 3: Summary of OU-2 Groundwater Analytical Results
- Table 4: Summary of Residential Well Monitoring Results
- Table 5: Summary of Leachate Analytical Results

TABLE OF CONTENTS (continued)

SECTION 1: Environmental Monitoring Plan Sampling Requirements Tables
Email

SECTION 2: Field Data Sheets
Calibration Sheets

SECTION 3: Laboratory Analytical Reports

SECTION 4: Graphs Illustrating Contaminant Concentrations over Time
Mann-Kendall Data Evaluation Summary

SECTION 5: Data Validation Reports

1.0 INTRODUCTION

At the request of the Coakley Landfill Group, Provan & Lorber, Inc. has performed post-closure monitoring for the former Coakley Landfill site (the "Site"), located in North Hampton and Greenland, New Hampshire. The Site includes approximately 92-acres located within the towns of North Hampton and Greenland, New Hampshire. The actual landfill covers approximately 27 acres. The Site is located between about 400 to 800 feet west of Lafayette Road (U.S. Rt. 1), south of Breakfast Hill Rd, and about 2.5 miles northeast of the center of the Town of North Hampton, New Hampshire. The Greenland-Rye town line forms a major portion of the eastern boundary of the Site. The landfill borders farmland, undeveloped woodlands and wetlands to the north and west. Commercial and residential properties border the Site to the east and south. The landfill monitoring is divided into two operational units. The objective for area OU-1 is to protect the drinking water aquifer by reducing further migration of contaminants to the groundwater and surface water and eliminating threats posed by direct contact with or ingestion of contaminated soils and wastes at the Site. The objective for area OU-2 is to manage the migration of contaminated groundwater outside the landfill boundaries. Background information has been summarized in numerous previous reports, including the Project Operations Plan (POP) prepared in April 2010 by Golder Associates. A Site Location Map is included as **Figure 1**.

Groundwater monitoring was performed in accordance with the Project Operations Plan (POP) and Environmental Monitoring Plan (EMP) revision 1.0, dated April 2010, with the exceptions and revisions noted below. As requested by USEPA and NHDES additional sampling for 1,4-dioxane was performed for the wells designated in the 2011 Annual Report with changes in accordance with several letters, emails, and conversations, and confirmed in an email from the EPA, dated August 24, 2012. Copies of the EMP monitoring requirements tables and email are included in **Section 1**.

Due to changes in the required sampling procedures, sampling of the three 6-inch diameter wells (MW-6, BP-4, and GZ-125) was performed using a Discrete Interval Sampler, following the SOP dated January 2011 and approved by the EPA. As during previous monitoring events, monitoring well RMW-3 was obstructed and could not be sampled.

Domestic well R-5 serves the residence at 399 Breakfast Hill Road. The owner of the property was contacted and confirmed that the residence is still unoccupied and the water system is still winterized and that the well is temporarily out of service. Therefore, sampling of well R-5 could not be performed. Instead, the domestic well at 346 Breakfast Hill Road was sampled. This well is located west of 399 Breakfast Hill Road, approximately 750 feet west of the railroad tracks and on the south side of the road. Based on previous plans prepared by Golder Associates, this well appears to have previously been designated R-1.

During research for development of cross sections for the Site, boring logs were located which indicate that well MW-5S is actually a bedrock well, not an overburden well as

previously indicated. Figures, tables, and text for the 2012 Annual Report have been revised to reflect this discovery.

2.0 AUGUST 2012 MONITORING AND SAMPLING PROCEDURES

2.1 Groundwater Sampling Procedures

Water levels were measured in selected monitoring wells using an electronic water-level indicator prior to sampling. The calculated groundwater elevations are summarized on **Table 1**. Two YSI-650MDC multimeters, equipped with flow-though cells, were used for measurement of field stabilization parameters. The meters were calibrated at the beginning of each day in accordance with procedures outlined in the POP and manufacturer's procedures. The multimeters were also calibrated at the rental company prior to shipment for use at the Site. Two Lamotte 2020e turbidity meters were calibrated at the beginning of each day. Due to the meter's automatic shut-off feature, turbidity meters were calibrated when turned on at the beginning of purging at each well. Water for measurement of turbidity was obtained using a "T" intersection and valve prior to the flow-through cell. Procedures for measurement of field parameters and stabilization criteria are included in the SOP. Calibration sheets are included in **Section 2**.

Sampling was performed from August 27 – 31, 2012. With the exceptions noted below, monitoring wells were purged and sampled following low flow sampling techniques using dedicated Teflon-lined polyethylene tubing and a peristaltic pump. Prior to sampling, wells were purged at flow rates ranging from 0.1 to 0.75 liters per minute. Purging times ranged from 30 minutes to nearly 4 hours, until stabilization of the following monitoring parameters: temperature, pH, specific conductance, oxidation reduction potential (ORP), dissolved oxygen, and turbidity. Final stabilization readings are included on **Tables 2 and 3**. Field data sheets are included in **Section 2**. Low flow sampling procedures are further described in the SOP, included in the Site POP. Due to very slow well recharge, drawdown in several wells was greater than the goal of a maximum of 0.3 feet. Drawdown measurements are included on the field data sheets in **Section 2**.

Monitoring wells with screened intervals longer than 10 feet were purged of a minimum of three volumes of the well screened interval. For all wells sampled, purging and sampling was performed with the bottom of the tubing located at approximately the middle of the screened interval of the well. Tubing intake depths are summarized on the sampling requirements **Table 2-1** from the EMP, included in **Section 1** for reference. For collection of samples, the flow-through cell was removed and water was obtained immediately after the peristaltic pump. Pumping was maintained at a steady rate following purging and through removal of the flow cell and collection of samples.

Samples were also collected from two domestic wells. A sample was collected from well R-3, located at 368 Breakfast Hill Road, using an outside spigot. The water was allowed to run for approximately 10 minutes prior to sampling. A sample was also collected from

the domestic well R-1, located at 346 Breakfast Hill Road. The sample was collected from a spigot adjacent to the hydropneumatic pressure tank in the basement of the residence. Since water was in use at the residence, water was only run to clear the piping adjacent to the sample spigot. Measurements were collected for the above-described stabilization parameters for both domestic wells, and are included on **Table 4**.

The depths to water in wells MW-4, AE-1A, and AE-1B were too great to allow sampling using a peristaltic pump. Therefore, MW-4, AE-1A, and AE-1B were purged and sampled using dedicated disposable bailers. Purging was performed by very slowly lowering and withdrawing the bailer from the water column to minimize disturbance of the well. Stabilization parameters were obtained by filling the YSI calibration cup with water from the bailer.

Bedrock wells MW-6, BP-4, and GZ-125 were sampled using a discrete interval sampler. Sampler pressurization requirements were determined based on the depth to water and the desired sampling depth. Samples were collected at a depth of 49 feet in BP-4, at a depth of 150 feet in MW-6, and at a depth of 72 feet in GZ-125 using a 1.66" x 2' Solinst® Discrete Interval Sampler which was pressurized using a cylinder of compressed nitrogen following the procedures outlined in the January 2011 SOP. A larger sampler was not available. Therefore, due to the limited volume of the sampler, multiple deployments of the sampler were required at each well to fill the sample containers and collect field measurements. The sampler was lowered approximately one foot lower during each subsequent deployment. Following sample collection, measurements were collected for the above-described stabilization parameters by filling the YSI calibration cup with water from the well.

Upon collection, each water sample was placed in laboratory glassware and plastic containers, preserved as appropriate for target compounds. Samples for VOCs analyses were collected first, followed by samples for metals analyses. Samples for analysis of dissolved metals were field filtered with one-time use 0.45-micron filters prior to preservation. In-line filters were used for samples collected using a peristaltic pump. Laboratory-supplied syringes and filters were used for samples collected using bailers and the discrete interval sampler. Samples were packaged on ice in a shipping cooler and delivered to Eastern Analytical, Inc. in Concord, NH for laboratory analysis as outlined in the EMP. Additional samples were also analyzed for low level 1,4-dioxane by EPA Method 8260B SIM with a reporting limit of 0.25 part per billion (ppb). All VOCs analyses by EPA Method 8260B also included 1,4-dioxane, but with a higher reporting limit of 50 ppb. Sample locations are illustrated on **Figure 2 – Site Plan**.

2.2 Surface Water and Sediment Sampling Procedures

In accordance with EMP dated April 2010, sediment sampling at the Site was reduced to once every 5 years, with the next sediment sampling to be performed in 2014. Therefore, sediment sampling was not performed in August 2012.

A leachate sample was collected by submersing a dedicated disposable bailer at the sample location. The intake point for the bailer was maintained at a point below the top of the water but above the underlying sediments to minimize the intake of sediments and/or floating materials. The water was then decanted into the appropriate containers for sample preservation. The sample was packaged on ice in a shipping cooler and delivered to Eastern Analytical Inc. for laboratory analysis. Following collection of the sample for laboratory analysis, field measurements were collected for temperature, pH, specific conductance, ORP, and dissolved oxygen by placing the instrument probe directly into the water. The sample for testing of turbidity was collected by submersing the testing vial into the surface water to collect the sample. Surface water locations SW-4, SW-5, and SW-103 were dry and therefore samples could not be collected. Leachate and surface water sample locations are indicated on **Figure 2**.

2.3 Quality Control Samples

Duplicate samples were collected from MW-5S and AE-3B and analyzed for volatile organic compounds (VOCs; 8260B), 1,4-dioxane (8260B SIM), total 23 TAL metals, and for dissolved iron and manganese.

Matrix spike (MS) and matrix spike duplicate (MSD) samples were also collected from MW-5S and AE-3B for use in QA/QC for VOCs, 1,4-dioxane, total TAL metals, and dissolved iron and manganese.

A duplicate sample was collected from the leachate location (L-1) and analyzed for COD and ammonia. MS and MSD samples were also collected from L-1 for use in QA/QC for ammonia. All duplicate, MS, and MDS samples were collected immediately following collection of the primary sample for the same analysis and following the same sampling procedures.

Field blank samples were prepared following sampling of wells MW-5S and AE-3B. Samples were collected by pouring deionized water into the sample containers and the samples were placed with the other samples collected from the Site. The field blank samples for analysis of dissolved metals were filtered using a 0.45-micron filter prior to placement in the sample container. Both field blank samples were analyzed for VOCs, 1,4-dioxane, total TAL metals, and for dissolved iron and manganese.

Following decontamination, an equipment rinse blank was collected for the discrete interval sampler by filling the sampler with deionized water. The water was allowed to remain in the sampler for approximately 5 minutes and then dispensed through the bottom of the sampler into the sample containers, as outlined in the Discrete Interval Sampler SOP. The equipment blank sample for analysis of dissolved metals was filtered using a 0.45-micron filter prior to placement in the sample container. The equipment blank was analyzed for VOCs, 1,4-dioxane, total TAL metals, and for dissolved iron and manganese.

Each set of samples sent to the laboratory was accompanied by a trip blank that was analyzed for VOCs and 1,4-dioxane.

An EPA Region I, Tier I data validation was performed for the laboratory analytical data by *Quality Assurance Associates, LLC.*

3.0 FINDINGS

3.1 EMP Monitoring Groundwater Results

The general groundwater flow direction was determined to be westerly to northwesterly in both the overburden and bedrock wells. Groundwater contours constructed from the August 2012 water table data for overburden wells and bedrock wells are illustrated in **Figures 3 and 4**, respectively. Groundwater elevations decreased an average of 0.97 feet in overburden wells and an average of 0.84 feet in bedrock wells between the August 2011 and August 2012 sampling events. The hydraulic gradient across the landfill property in overburden wells averaged approximately 0.026 ft/ft. The hydraulic gradient across the landfill property in bedrock wells was approximately 0.020 ft/ft. More shallow gradients were observed west and east of the Site.

An upward hydraulic gradient was observed at well pairs MW-5S/5D, AE-2A/B, AE-3A/B, FPC-2A/B, FPC-5A/B, and GZ-123/GZ-125. Downward hydraulic gradients were observed in well pairs AE-1A/B, AE-4A/B, FPC-7A/B, FPC-8A/B, and FPC-11A/B. Downward hydraulic gradients ranged from 0.001 to 0.014 ft/ft, calculated using the middle of the well screened intervals. Upward gradients ranged from 0.016 to 0.058 ft/ft. Vertical gradients in the well pairs southeast of the site were nearly zero. Wells located near the line of cross section for A-A' tended to have upward gradients. Well pair FPC-7A/B, located north of the Site and well pairs FPC-8A/B and AE-4A/B, located west of the Site showed downward hydraulic gradients. Based on field observations, the relative casing elevations of wells FPC-6A/6B is suspect. Therefore, this well pair was not included in discussion of vertical hydraulic gradients.

Concentrations of arsenic exceeded the interim cleanup level (ICL) in Operable Unit 1 (OU-1) in the following wells: MW-4, MW-5S, MW-5D, MW-8, MW-9, MW-10, OP-2, OP-5, and BP-4.

Concentrations of manganese exceeded the ICL in OU-1 in the following wells: MW-4, MW-5S, MW-5D, MW-6, MW-8, MW-9, MW-10, MW-11, OP-2, OP-5, and BP-4.

The concentration of benzene exceeded the ICL in OU-1 well MW-8.

Concentrations of arsenic exceeded the ICL in Operable Unit 2 (OU-2) in the following wells: FPC-5A, FPC-6A, FPC-9A, GZ-105, AE-1A, AE-2A, AE-2B, AE-3A, and AE-3B.

Concentrations of manganese exceeded the ICL in OU-2 in the following wells: FPC-2A, FPC-6A, FPC-6B, FPC-9A, FPC-11A, FPC-11B, GZ-105, GZ-123, GZ-125, AE-1A, AE-1B, AE-2A, AE-2B, AE-3A, AE-3B, and AE-4A.

The concentration of benzene exceeded the ICL in OU-2 well GZ-105.

Concentrations of dissolved manganese were generally very similar to the concentrations of total manganese. Concentrations of dissolved metals exceeded ICLs where concentrations of total metals exceeded ICLs, with the exception of FPC-9A, where concentrations were close to the ICL. For the majority of wells, concentrations of dissolved and total iron were similar. However, concentrations of dissolved iron were significantly less than concentrations of total iron in a few wells. This was likely due to sample turbidity leading to increased iron associated with particles in the unfiltered samples.

1,4-Dioxane was detected in samples collected from 8 of 9 monitoring wells in OU-1. 1,4-Dioxane was detected in 11 of 22 monitoring wells in OU-2. Detections of 1,4-dioxane in OU-2 were generally in wells close to OU-1. However, 1,4-dioxane was detected in wells FPC-6A and FPC-6B in OU-2. Concentrations of 1,4-dioxane were generally greater in bedrock wells, compared to adjacent overburden wells. An Interim Cleanup Level (ICL) has not been established for this site for 1,4-dioxane. However, the New Hampshire Ambient Groundwater Quality Standard (AGQS) for 1,4-dioxane is 3 µg/l.

Groundwater analytical results for OU-1 and OU-2 wells are summarized on **Tables 2 and 3**, respectively. 1,4-Dioxane was detected in the sample collected from residential well R-3 at a concentration below the AGQS. Other VOCs were not detected in the samples collected from the residential wells. Residential well results are summarized on **Table 4**. The laboratory reports are included in **Section 3**.

The spatial distributions of arsenic and manganese in overburden and bedrock wells are illustrated on **Figures 5 through 8** and on the cross sections included as **Figures 10 through 13**. Spatial depiction of 1,4-dioxane concentrations in groundwater are included as **Figure 9** and in the cross sections included as **Figures 14 and 15**.

3.2 Leachate Sample Results

Concentrations of iron and selenium exceeded the DES chronic surface water standards at leachate location L-1. Acute surface water standards have not been established for iron or selenium.

The concentration of ammonia exceeded the DES chronic surface water standard at leachate location L-1, but was below the acute surface water standard.

1,4-Dioxane was detected in the leachate sample at a concentration of 28 µg/l, exceeding the New Hampshire AGQS.

Leachate results are summarized on **Table 5**. The laboratory reports are included in **Section 3**.

3.3 Quality Control Sample Results

Variations in duplicate samples met accepted criteria. Target compounds were not detected in any of the trip blank samples.

Calcium was detected in the equipment blank sample and both of the field blank samples at concentrations ranging from 0.11 mg/l to 0.19 mg/l. The lowest concentration of calcium detected in groundwater samples collected for the Site was 4.4 mg/l, considerably above the concentrations detected in the blank samples.

Analyses of the MS/MSD samples for MW-5S exceeded the allowed relative percent difference (RPD) for 1,4-dioxane (EPA 8260B). However, while 1,4-dioxane was not detected by EPA Method 8260B, it was detected in this sample by EPA 8260B SIM, which may account for the discrepancy. The LCS/LCSD samples were outside acceptable RPD criteria for 2,2-dichloropropane for the 9/4/12 and 9/7/12 analysis dates. However, this compound was not detected in any of the samples. The LCS/LCSD samples were outside acceptable RPD criteria for dichlorodifluoromethane, chloromethane, vinyl acetate, and 2,2-dichloropropane for the 9/6/12 analysis date. However, these compounds were not detected in any of the samples.

3.4 Data Validation Review

Some raw data packages were not included with the original laboratory reports. This data was subsequently supplied by the laboratory and is included with the laboratory reports presented in this report. On each lab report, recoveries for some VOC compounds were outside accepted limits. However, for compounds where recoveries were outside accepted limits, these compounds were not detected in the samples and therefore this does not affect the results. The data validation reports are included in **Section 5**.

3.5 Field Data Review

Field measurement and purge sheets and calibration logs were reviewed for completeness and adherence to calibrations sampling requirements. The pH in MW-8 had a variation of 0.11 in the final three measurements, exceeding the allowed variation of 0.10. The final pH in MW-8 was consistent with historical results. Based on the near stabilization of pH and the stabilization of the remaining purge parameters, this variation does not appear to affect the sample results. The temperature for FPC-11B varied by 3.1 percent, exceeding the allowed variation of 3.0 percent. The final temperature in FPC-11B was consistent with historical results. Based on the near stabilization of temperature and the stabilization of the remaining purge parameters, this variation does not appear to affect the sample results. Due to low yield, monitoring wells AE-2B and FPC-2B were purged dry without stabilization of field parameters, but were sampled following water level

recovery. Drawdown in wells AE-4B and FPC-8A also exceeded the maximum drawdown standard of 0.3 feet without stabilization of the depth to water. Other field parameters were stable prior to sampling. The maximum drawdown goal of 0.3 feet was exceeded in 20 additional wells. Drawdown and field parameters stabilized in these wells prior to sampling, with the exceptions noted above.

Data on the instrument calibration logs was compared to the calibration criteria in the Project Operation Plan for the Site. The following exceptions to the stated criteria were noted for end of day calibration checks. Specific conductance varied by more than the allowed 5 percent for meter #1 on 8/28, 8/29, and 8/30 and for meter #2 on 8/27 and 8/29. Dissolved oxygen exceeded the allowed variation for meter #1 on 8/27/12. ORP varied by more than 10 mV for the mid day check on 8/28 for meter #1 and for the end of day checks for both meters on 8/30 and 8/31. The pH 4 calibration check varied by more than 0.3 for the end of day check on meter #1 on 8/29. All other end of day calibration checks were within allowed variations. All morning calibrations were within allowed variations. Field sheets and calibration logs are included in **Section 2**.

4.0 TRENDS AND CLEANUP PROGRESS

Concentrations of manganese exceeded the ICL in samples collected from all eleven monitoring wells in OU-1. Concentrations of arsenic exceeded the ICL in samples collected from 9 of the 11 wells in OU-1. The concentration of benzene exceeded the ICL in OU-1 well MW-8.

Concentrations of manganese exceeded the ICL in samples collected from 16 of the 25 monitoring wells in OU-2. Concentrations of arsenic exceeded the ICL in samples collected from 9 of the 25 wells in OU-2. The concentration of benzene exceeded the ICL in OU-2 well GZ-105.

The lateral distributions of arsenic and manganese in overburden and bedrock wells are illustrated on **Figures 5 through 8**. The vertical distributions of arsenic and manganese are illustrated on cross section, included as **Figures 10 through 13**. Graphs illustrating contaminant concentrations over time for arsenic, manganese, and benzene in selected wells are included in **Section 4**. Concentrations of arsenic increased in 12 wells, decreased in 13 wells, and remained unchanged in 11 wells relative to the 2011 sampling event. Concentrations of manganese increased in 26 wells, decreased in 7 wells, and remained unchanged in 3 wells relative to the 2011 sampling event.

The Mann-Kendall data evaluations performed for the 2011 Annual Report were updated with the 2012 data to examine trends for arsenic, manganese, and benzene concentrations in selected wells. The evaluation performs a statistical analysis of the data to determine increasing or decreasing trends in contaminant concentrations at the particular sampling point and a confidence level for the trend. A confidence level less than 70% is treated as "No Trend".

The evaluation was performed for arsenic at 19 wells, for manganese at 19 wells, and for benzene at 5 wells, with these wells and compounds corresponding to the graphs of concentrations versus time included in **Section 4**. Data for the most recent 20 data sets were used. Where the target compound was not detected, a value of one-half of the laboratory reporting limit was used.

For arsenic, decreasing trends were calculated for 9 wells, increasing trends for 6 wells, and no trend for 4 wells. For manganese, decreasing trends were calculated for 13 wells, increasing trends for 4 wells, and no trend for 2 wells. For benzene, decreasing trends were calculated for 4 wells and no trend for 1 well. Overall, contaminant concentrations in groundwater at the Site show a decreasing trend. No correlation between trends for arsenic and manganese within the same well, well pairs, or spatially were noted. If only the more recent sampling results are examined, more of the wells show trends tend to be stable. A summary of results by wells and compounds is included at the end of **Section 4**.

1,4-Dioxane was detected in samples collected from 6 of 9 monitoring wells in OU-1 at concentrations exceeding the New Hampshire AGQS. 1,4-Dioxane was detected in samples collected from 8 of 22 monitoring wells in OU-2 at concentrations exceeding the New Hampshire AGQS. 1,4-Dioxane was detected in two wells in OU-1 and in three wells in OU-2 at concentrations below the AGQS. 1,4-Dioxane was detected in monitoring wells FPC-6A and FPC-6B, located near the GMZ boundary at concentrations exceeding the AGQS. Concentrations of 1,4-dioxane were generally greater in bedrock wells, compared to adjacent overburden wells. Because sampling for 1,4-dioxane began in 2009, a limited history of sampling for 1,4-dioxane is available for the Site. Therefore, an assessment of trends in 1,4-dioxane concentrations was not performed. The lateral distribution of 1,4-dixane in bedrock and overburden wells is illustrated on **Figure 9**. The vertical distribution of 1,4-dixane is illustrated on cross sections as **Figures 14 and 15**.

As discussed with EPA, a more detailed evaluation of the cleanup progress and concentration trends will be submitted by the Coakley Landfill Group in 2013.

5.0 SUMMARY AND CONCLUSIONS

Based on data collected at the Site during August 2012, Provan & Lorber concludes the following:

- Water samples were collected from 36 monitoring wells, 1 leachate location, and 2 domestic wells in August 2012. The three surface water locations were dry.
- Groundwater flows in both overburden and bedrock wells were calculated to be westerly to northwesterly during the August 2012 monitoring event, consistent with previous monitoring events. The hydraulic gradient across the landfill property was approximately 0.026 ft/ft in overburden soil and approximately 0.020 ft/ft in bedrock. More shallow gradients were observed west and east of the Site.

- An upward hydraulic gradient was observed at well pairs MW-5S/5D, AE-2A/B, AE-3A/B, FPC-2A/B, FPC-5A/B, and GZ-123/GZ-125. Downward hydraulic gradients were observed in well pairs AE-1A/B, AE-4A/B, FPC-7A/B, FPC-8A/B, and FPC-11A/B. A change in the vertical gradient direction was noted in 4 well pairs, relative to the 2011 monitoring event. Downward hydraulic gradients tended to be much smaller than vertical gradients. The permeabilities of sediments, as in the overburden soils at the site, are typically lower vertically than horizontally due to the deposition sequences of the soil. This would tend to increase lateral movement of groundwater while lessening the vertical component of groundwater flow.
- Interim cleanup levels (ICLs) were exceeded in samples collected from all eleven (11) monitoring wells in Operable Unit #1. ICLs were exceeded in samples collected from seventeen (17) of twenty five (25) monitoring wells in Operable Unit #2. The most common exceedances were for arsenic and manganese. Exceedances were also noted for benzene in two wells.
- 1,4-Dioxane was detected in 6 of 9 samples from monitoring wells in OU-1, in 8 of 22 samples from monitoring wells in OU-2, and in the leachate sample at concentrations exceeding the New Hampshire AGQS. 1,4-Dioxane was detected in monitoring wells FPC-6A and FPC-6B, located near the GMZ boundary, at concentrations exceeding the AGQS. An ICL has not been established for the site.
- Overall, contaminant concentrations in groundwater at the Site show a decreasing trend. However, concentrations at several monitoring points show an increasing trend, while concentrations at additional monitoring points are generally stable. No correlation between trends for arsenic and manganese within the same well, well pairs, or spatially were noted.
- NHDES surface water standards were exceeded for iron, selenium, and ammonia in the leachate sample collected in 2012. We note that water collected at the "leachate" sample location L-1 may be more representative of shallow overburden groundwater, which is under the influence of the landfill, that has reached the surface at a topographic low point.
- The three surface water sample locations were dry in August 2012, and therefore could not be sampled.
- Variations in duplicate samples met accepted criteria. Target compounds were not detected in any of the trip blank samples.
- Calcium was detected in the discrete interval sampler equipment blank and in both of the field blank samples at concentrations ranging from 0.11 mg/l to 0.19 mg/l. The lowest concentration of calcium detected in groundwater samples collected at the Site was 4.4 mg/l, considerably above the concentration detected in the blank samples. Low concentrations of calcium have been detected in previous equipment blank and field blank samples for the Site and calcium is likely present in the deionized water used for preparation of the blanks.

- Based on this data, cross contamination does not appear to be an issue for the Site. The presence of calcium in the blank samples does not appear to impact the conclusions for the Site.
- Some end of day calibration checks exceeded allowed variations. Groundwater drawdown exceeded 0.3 feet in many wells during purging. However, groundwater levels stabilized in the majority of the wells.
- Sampling methods are consistent with historical methods. Variations in meters do not appear to have a significant adverse effect on data quality.

6.0 RECOMMENDATIONS

Based on data collected at the Site, Provan & Lorber recommends the following:

- In accordance with the current monitoring plan, the next monitoring event should be scheduled for August 2013.
- The Groundwater Management Permit (GMP) for the Site will expire in June 2013 and requires renewal. Details of the new GMP should be coordinated between the NHDES and EPA to require the same sampling schedule.
- Pending issuance of a new GMP, groundwater sampling should continue in accordance with the POP and the matching requirements of the existing GMP. Additionally, sampling for 1,4-dioxane should continue as performed for the 2012 sampling event.

If you have any questions, please do not hesitate to call me at (603) 746-3220.

Sincerely,

Kevin McKibben, P.G.
Environmental Department Manager
Provan & Lorber, Inc.

V:\P2081 Coakley Landfill\DOCS\REPORTS\Annual Rpt 2012 Final.doc

FIGURES

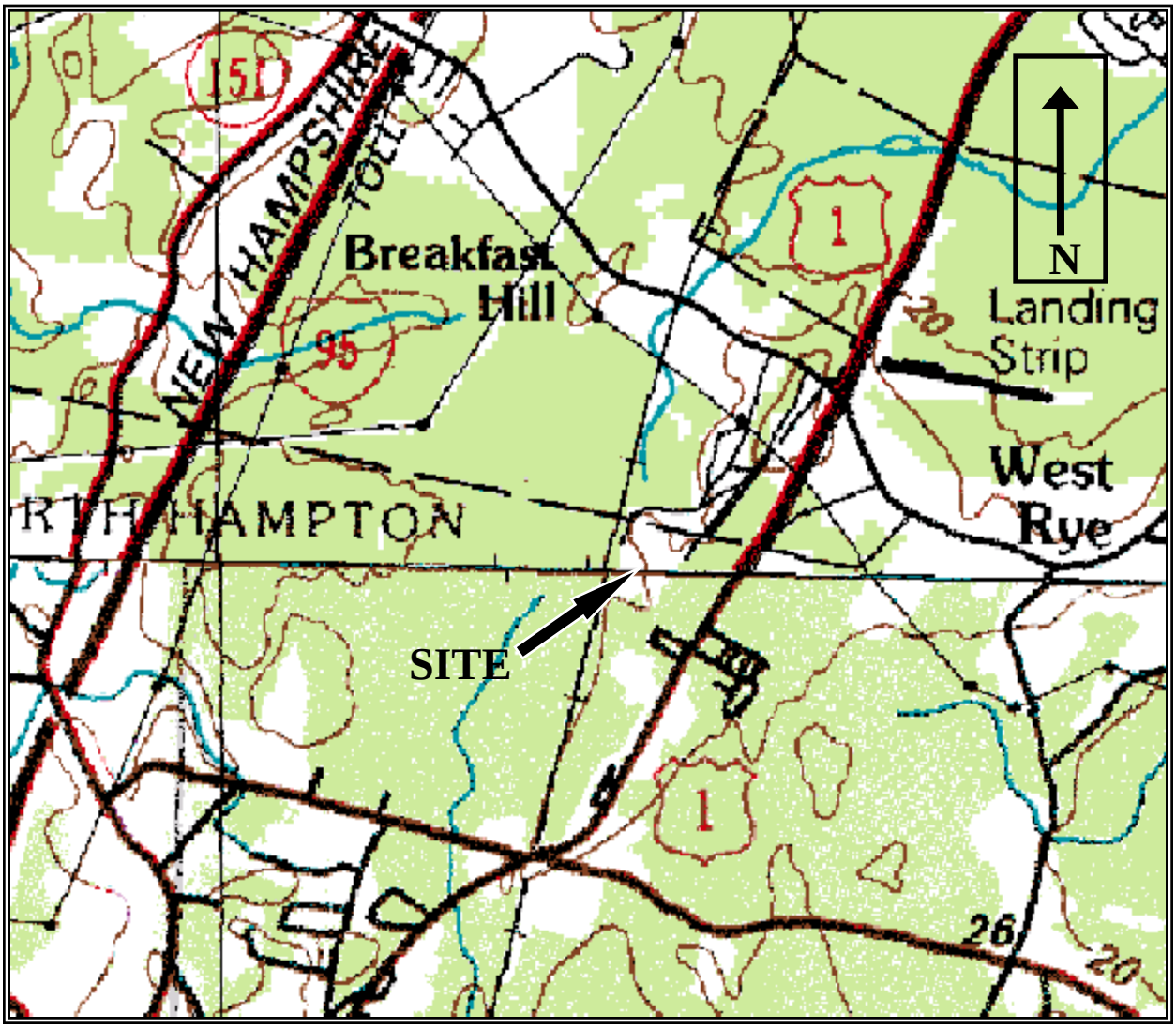


Image courtesy of the U.S. Geological Survey

km 0.4 0.8 1.2
mi 0.2 0.4 0.6 0.8

Map Based on USGS
Dover, NH (1985)
and
Exeter, NH (1977)
Quadrangle Maps, 15' Series

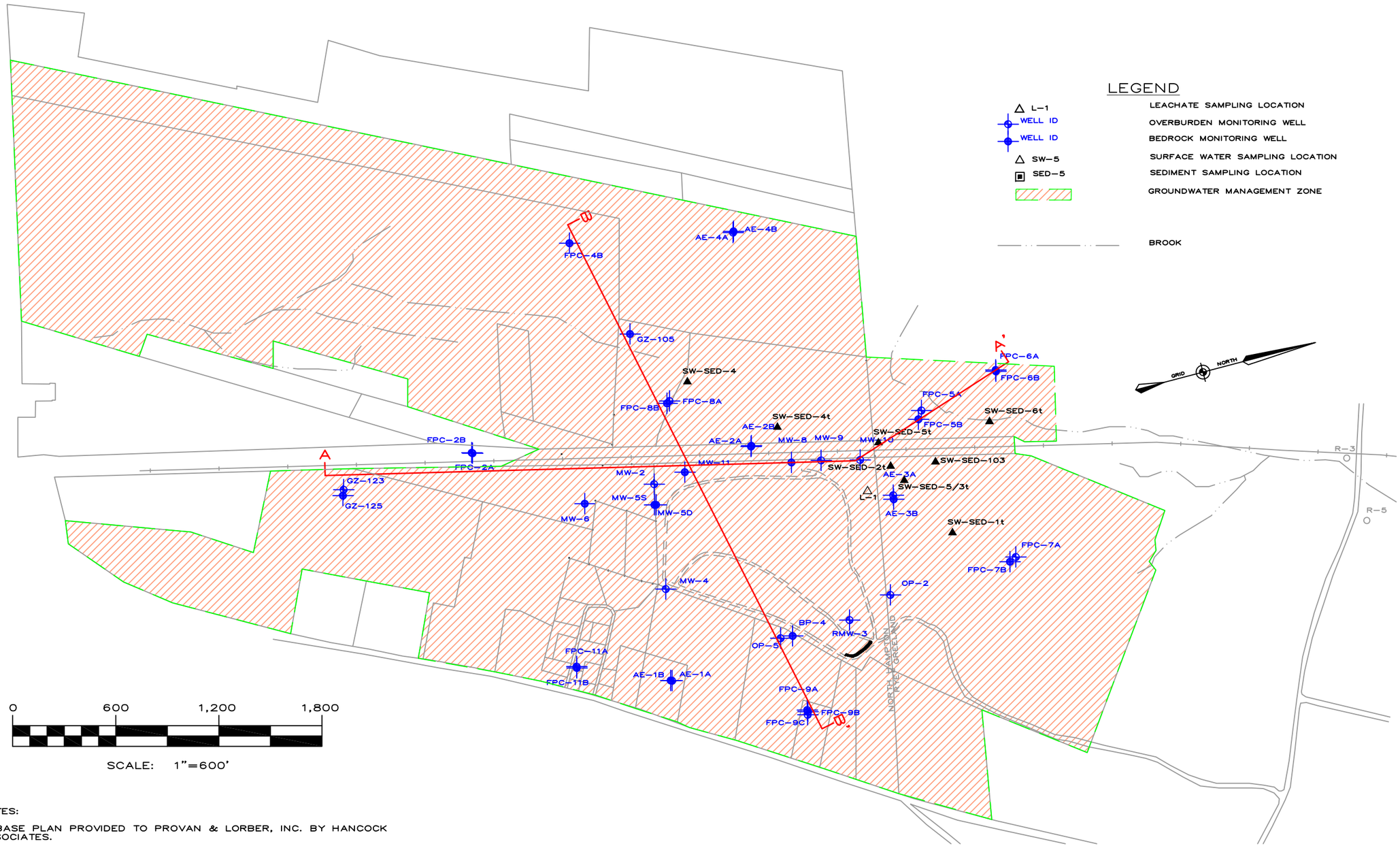
Figure 1

LOCATION MAP

Coakley Landfill

North Hampton, NH

Provan & Lorber, Inc.
Project P2081 August 2012



NOTES:

1. BASE PLAN PROVIDED TO PROVAN & LORBER, INC. BY HANCOCK ASSOCIATES.

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4. GMZ REVISED AND PROPERTY BOUNDARIES ADDED BASED ON "GMZ BOUNDARY PLAN" DATED MAY 9, 2009, AND INCLUDED IN THE GMP RENEWAL APPLICATION PREPARED BY HANCOCK ASSOCIATES.

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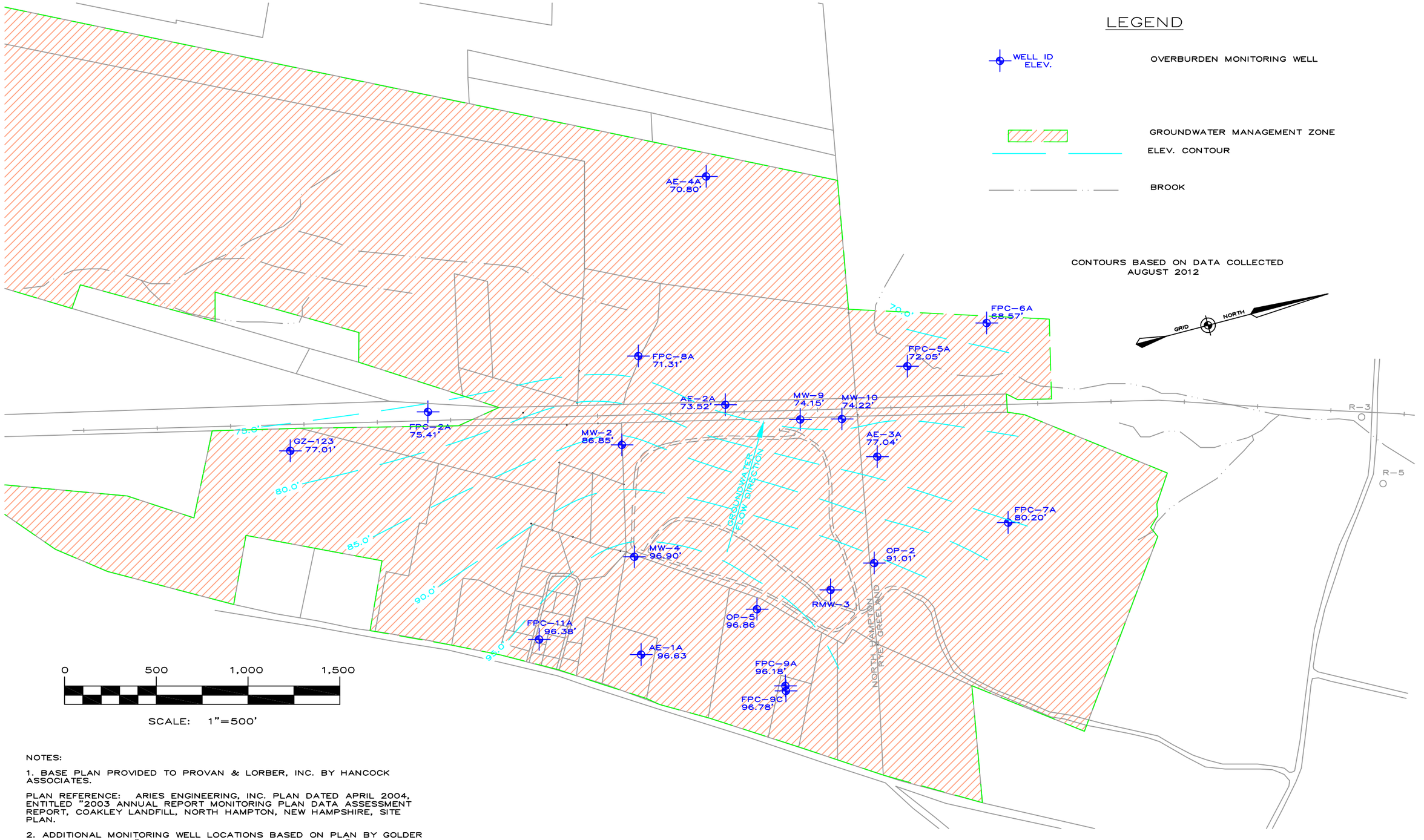
Littleton, NH
101 Cottage Street
03561
603 444-6301

COAKLEY LANDFILL
NORTH HAMPTON, NH

SITE PLAN

DATE	
AUGUST 2012	
ENG. BY	DRWN. BY
ENG	DRWN
CHKD.BY	PROJ. NO.
KMM	P2081

FIGURE 2



NOTES:

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COAKLEY LANDFILL
NORTH HAMPTON, NH

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY: KMM	DRWN. BY: DRWN
CHKD.BY: KMM	PROJ. NO.: P2081

FIGURE 3

LEGEND

WELL ID
ELEV.
BEDROCK MONITORING WELL

GROUNDWATER MANAGEMENT ZONE

ELEV. CONTOUR

BROOK

CONTOURS BASED ON DATA COLLECTED
AUGUST 2012

GRID NORTH

AE-4B
70.58'

FPC-4B
69.51'

69.47'
GZ-105

70.0'

FPC-6B
71.06'

FPC-8B
71.16'

FPC-5B
72.95'

AE-2B
74.01'

MW-8
75.98'

75.0'

FPC-2B
76.51'

MW-11
80.36'

R-3

80.0'

GZ-125
80.07

MW-5S
85.48'

MW-5D
86.92'

MW-6
89.66'

GROUNDWATER
FLOW DIRECTION

AE-3B
77.50'

FPC-7B
79.95

85.0'

90.0'

BP-4
96.48

95.0'

FPC-11B
96.37

AE-1B
96.61'

NORTH HAMPTON
RIVERSIDE LAND

FPC-9B
96.21

R-5

0 500 1,000 1,500

SCALE: 1"=500'

NOTES:

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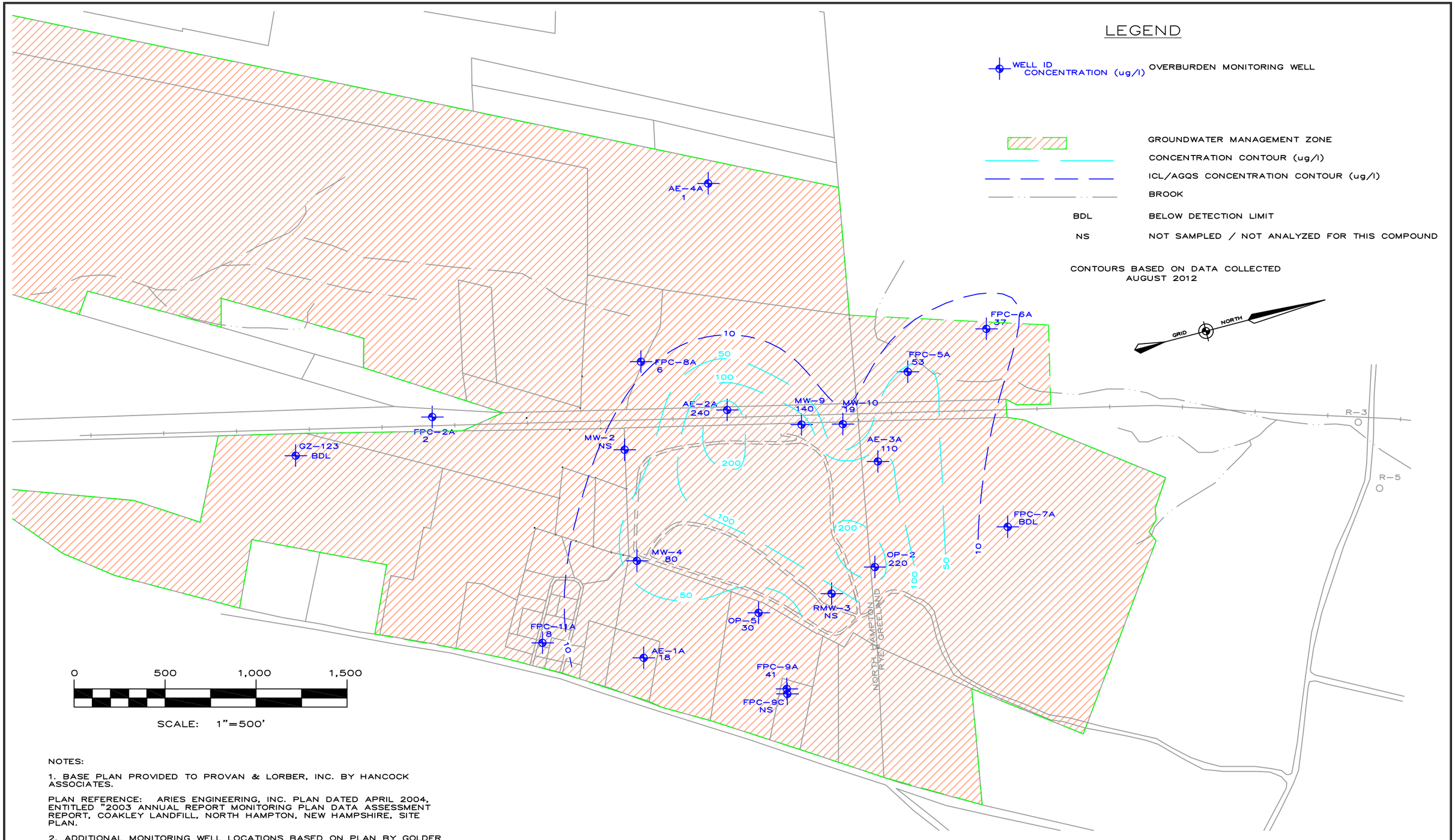
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603 444-6301

COAKLEY LANDFILL
NORTH HAMPTON, NH

BEDROCK GROUNDWATER
ELEVATION CONTOUR MAP
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY: KMM	DRWN. BY: DRWN
CHKD.BY: KMM	PROJ. NO.: P2081

FIGURE 4



NOTES:

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COAKLEY LANDFILL
NORTH HAMPTON, NH

ARSENIC CONCENTRATIONS
OVERBURDEN WELLS
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY: KMM	DRWN. BY: DRWN
CHKD.BY: KMM	PROJ. NO.: P2081

FIGURE 5

LEGEND

WELL ID
CONCENTRATION (ug/l) — OVERBURDEN MONITORING WELL

GROUNDWATER MANAGEMENT ZONE

CONCENTRATION CONTOUR (ug/l)

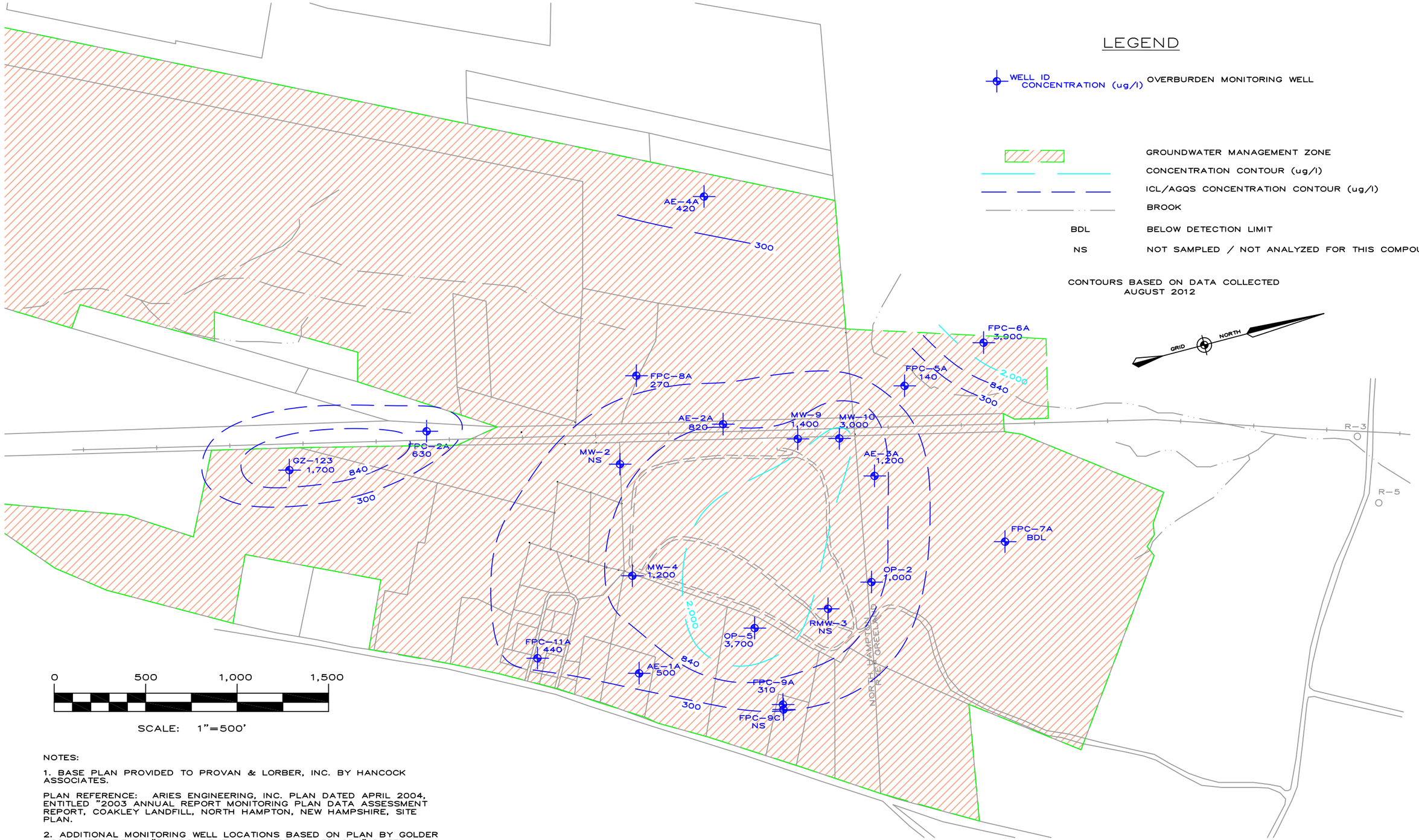
ICL/AGQS CONCENTRATION CONTOUR (ug/l)

BROOK

BDL — BELOW DETECTION LIMIT

NS — NOT SAMPLED / NOT ANALYZED FOR THIS COMPOUND

CONTOURS BASED ON DATA COLLECTED
AUGUST 2012



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COAKLEY LANDFILL
NORTH HAMPTON, NH

MANGANESE CONCENTRATIONS
OVERBURDEN WELLS
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY: KMM	DRWN. BY: DRWN
CHKD.BY: KMM	PROJ. NO.: P2081

FIGURE 6

LEGEND

WELL ID
CONCENTRATION (ug/l) — BEDROCK MONITORING WELL

GROUNDWATER MANAGEMENT ZONE

CONCENTRATION CONTOUR (ug/l)

ICL/AGQS CONCENTRATION CONTOUR (ug/l)

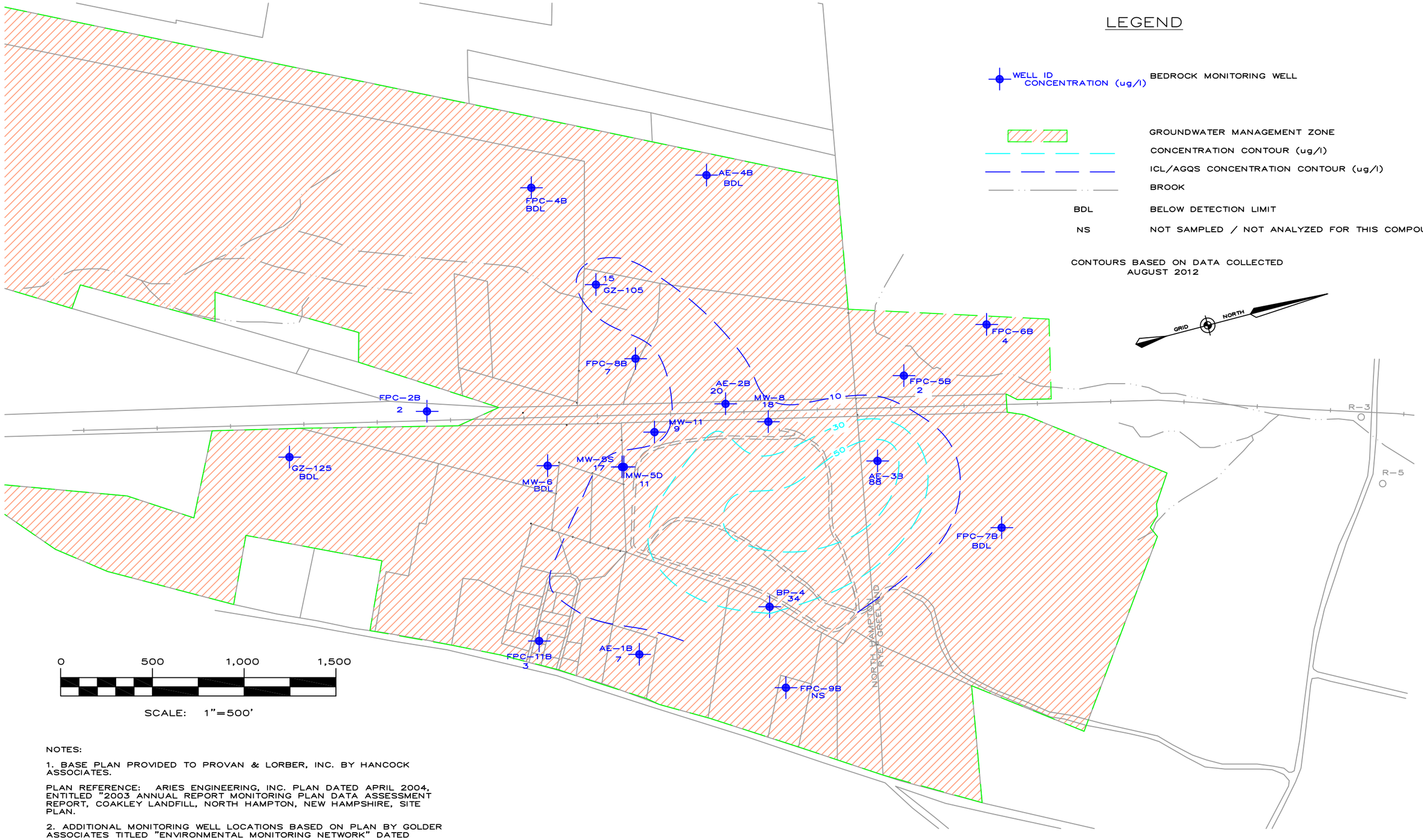
BROOK

BDL — BELOW DETECTION LIMIT

NS — NOT SAMPLED / NOT ANALYZED FOR THIS COMPOUND

CONTOURS BASED ON DATA COLLECTED
AUGUST 2012

GRID NORTH



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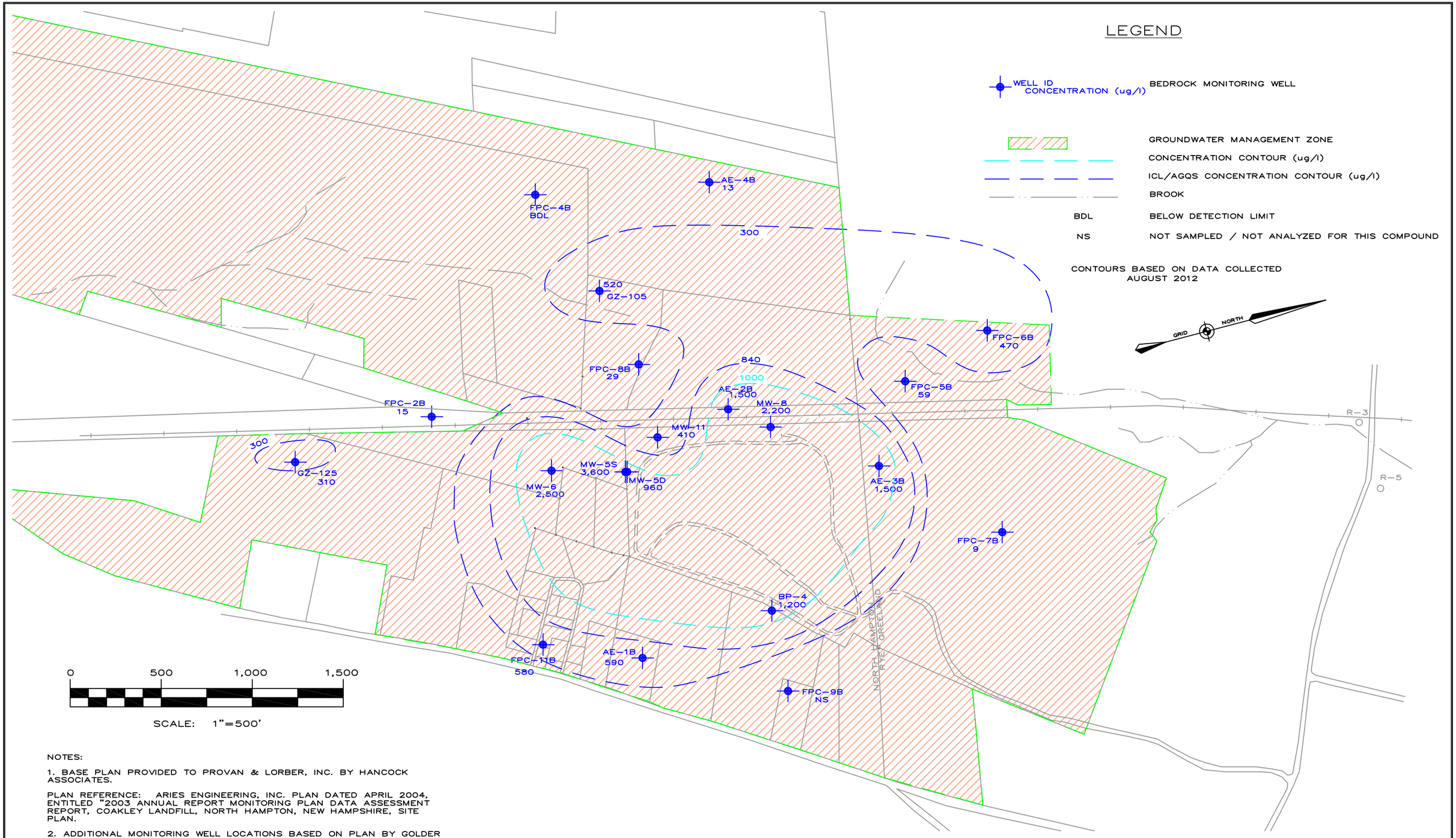
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NORTH HAMPTON, NH

ARSENIC CONCENTRATIONS
BEDROCK WELLS
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY: KMM	DRWN. BY: DRWN
CHKD.BY: KMM	PROJ. NO.: P2081

FIGURE 7



NOTES:

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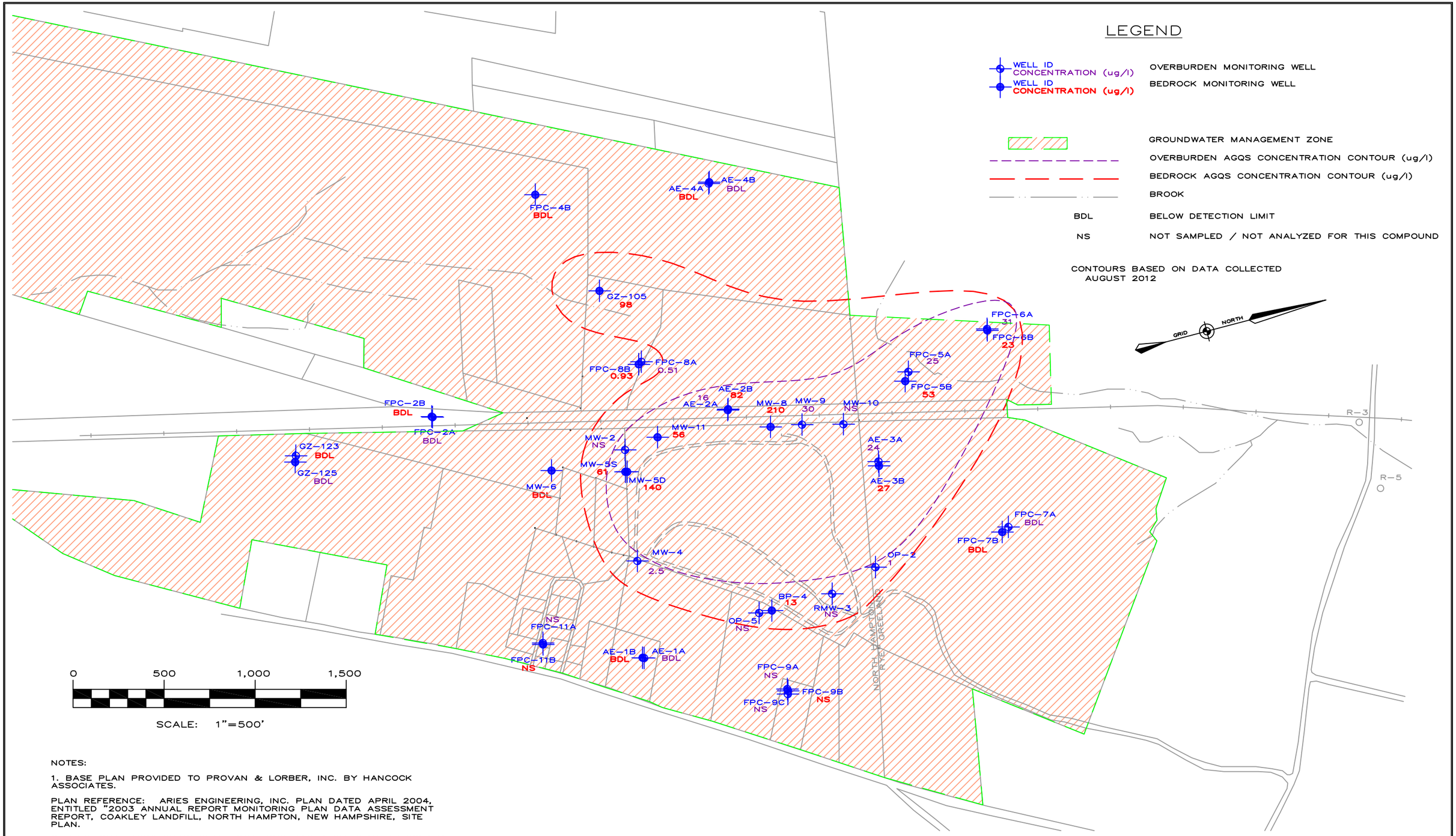
Littleton, NH
101 Cottage Street
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603 444-6301

COAKLEY LANDFILL
NORTH HAMPTON, NH

MANGANESE CONCENTRATIONS
BEDROCK WELLS
AUGUST 2012

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY DRWN
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 8



NOTES:

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COAKLEY LANDFILL
NORTH HAMPTON, NH

1,4-DIOXANE CONCENTRATIONS
OVERBURDEN & BEDROCK WELLS
AUGUST 2012

DATE	AUGUST 2012
ENG. BY KMM	DRWN. BY DRWN
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 9

FILL MATERIAL

LANDFILL REFUSE

Outwash: Dense brown, fine to coarse sand and gravel, trace silt, portions of sand and gravel vary widly with location

MARINE DEPOSITS: Medium dense, gray clay and silt to soft gray silt and clay, locally stratified with fine sand.

GLACIAL TILL: Very dense, brown, fine to coarse sand, some fine to coarse gravel, little silt.

BEDROCK

CENTRAL SILICIC COMPLEX: Generally consists of moderately hard to hard muscovite–biotite granite, quartz–feldspar granite, mylonite gneiss, and vein quartz. complex likely correlates with the breakfast hill granite and the breakfast hill member of the rye gneiss.

METAMORPHIC ROCKS: Generally consist of soft to hard phyllite, meta–graywacke, quartzite, amphibolie, and schist. These rocks likely correlate with the Rye Gneiss.

TOP OF GROUNDWATER

WELL DESIGNATION (OFFSET DISTANCE AND DIRECTION)

ARSENIC ISOCONCENTRATION

GROUNDWATER AND ARSENIC DATA BASED ON AUGUST 2012 DATA

16

SCREENED / OPEN INTERVAL

DISSOLVED ARSENIC CONCENTRATION (µg/l)

A

A'

GZ–125 (119' E)
GZ–123 (86' E)
FPC–2B (108' W)
FPC–2A (105' W)
MW–6 (206' E)
MW–2 (104' E)
MW–5S/5D (224' E)
MW–11 (39' E)
AE–2A (99' W)
AE–2B (104' W)
MW–8 (0')
MW–9 (8' W)
MW–10 (11' E)
FPC–5B (3' W)
FPC–5A (37' W
STREAM
FPC–6B (7' E)
FPC–6A (1' W)

ELEVATION

+120'
+80'
+40'
SEA LEVEL
–40'
–80'
–120'
–160'

BEND IN CROSS SECTION LINE

0' 400' 800' 1,200' 1,600' 2,000' 2,400' 2,800' 3,200' 3,600' 4,000' 4,400'

0 400 800 1,200

HORIZONTAL SCALE: 1"=400'

0 40 80 120

VERTICAL SCALE: 1"=40'

GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION A–A'
SHOWING DISSOLVED ARSENIC CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 10

FILL MATERIAL

LANDFILL REFUSE

Outwash: Dense brown, fine to coarse sand and gravel, trace silt, portions of sand and gravel vary widly with location

MARINE DEPOSITS: Medium dense, gray clay and silt to soft gray silt and clay, locally stratified with fine sand.

GLACIAL TILL: Very dense, brown, fine to coarse sand, some fine to coarse gravel, little silt.

BEDROCK

CENTRAL SILICIC COMPLEX: Generally consists of moderately hard to hard muscovite–biotite granite, quartz–feldspar granite, mylonite gneiss, and vein quartz. complex likely correlates with the breakfast hill granite and the breakfast hill member of the rye gneiss.

METAMORPHIC ROCKS: Generally consist of soft to hard phyllite, meta–graywacke, quartzite, amphibolie, and schist. These rocks likely correlate with the Rye Gneiss.

TOP OF GROUNDWATER

ARSENIC ISOCONCENTRATION

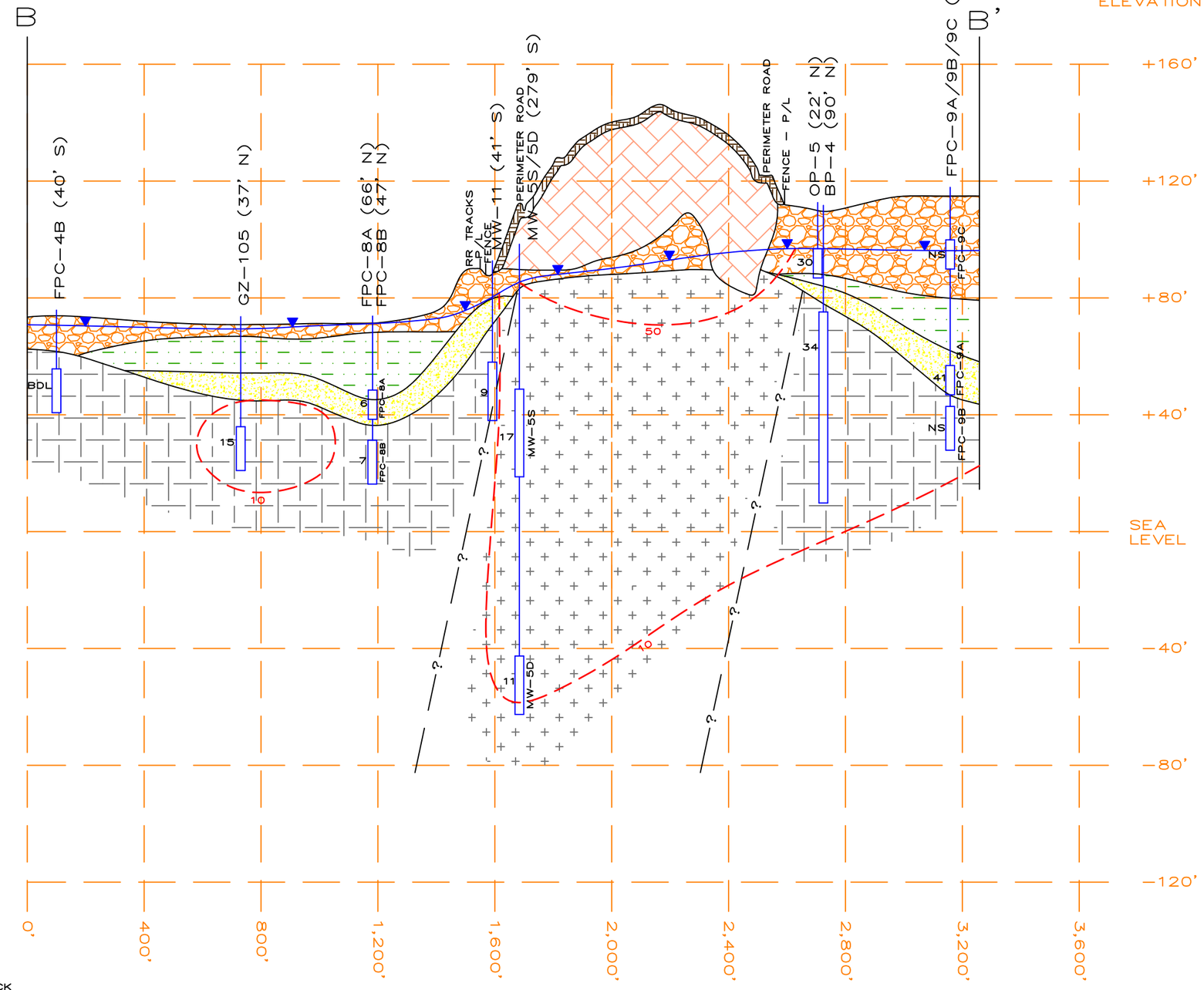
GROUNDWATER AND ARSENIC DATA BASED ON AUGUST 2012 DATA

WELL DESIGNATION (OFFSET DISTANCE AND DIRECTION)

16

SCREENED / OPEN INTERVAL

DISSOLVED ARSENIC CONCENTRATION (µg/l)



0 400 800 1,200

HORIZONTAL SCALE: 1"=400'

0 40 80 120

VERTICAL SCALE: 1"=40'

GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION B–B'
SHOWING DISSOLVED ARSENIC CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 11

FILL MATERIAL

LANDFILL REFUSE

Outwash: Dense brown, fine to coarse sand and gravel, trace silt, portions of sand and gravel vary widly with location

MARINE DEPOSITS: Medium dense, gray clay and silt to soft gray silt and clay, locally stratified with fine sand.

GLACIAL TILL: Very dense, brown, fine to coarse gravel, little silt.

BEDROCK

CENTRAL SILICIC COMPLEX: Generally consists of moderately hard to hard muscovite–biotite granite, quartz–feldspar granite, mylonite gneiss, and vein quartz. complex likely correlates with the breakfast hill granite and the breakfast hill member of the rye gneiss.

METAMORPHIC ROCKS: Generally consist of soft to hard phyllite, meta–graywacke, quartzite, amphibolie, and schist. These rocks likely correlate with the Rye Gneiss.

TOP OF GROUNDWATER

WELL DESIGNATION (OFFSET DISTANCE AND DIRECTION)

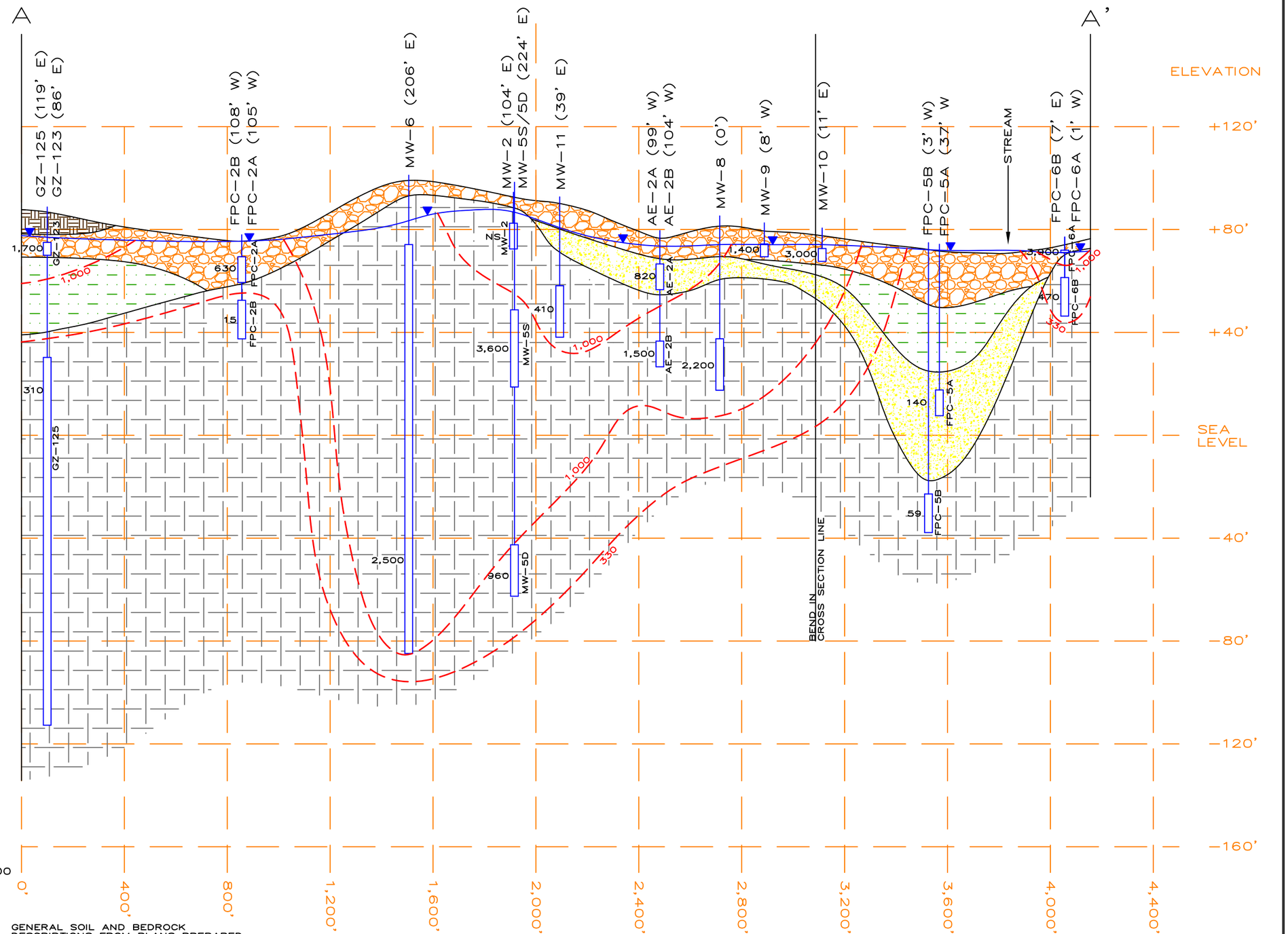
MANGANESE ISOCONCENTRATION

GROUNDWATER AND MANGANESE DATA BASED ON AUGUST 2012 DATA

740

SCREENED / OPEN INTERVAL

TOTAL MANGANESE CONCENTRATION (µg/l)



0 400 800 1,200

HORIZONTAL SCALE: 1"=400'

0 40 80 120

VERTICAL SCALE: 1"=40'

GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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NO.	DATE	REVISION	ENG	DWG

Provan & Lorber, Inc.
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101 Cottage Street
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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION A–A'
SHOWING TOTAL MANGANESE CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 12

FILL MATERIAL

LANDFILL REFUSE

Outwash: Dense brown, fine to coarse sand and gravel, trace silt, portions of sand and gravel vary widly with location

MARINE DEPOSITS: Medium dense, gray clay and silt to soft gray silt and clay, locally stratified with fine sand.

GLACIAL TILL: Very dense, brown, fine to coarse sand, some fine to coarse gravel, little silt.

BEDROCK

CENTRAL SILICIC COMPLEX: Generally consists of moderately hard to hard muscovite–biotite granite, quartz–feldspar granite, mylonite gneiss, and vein quartz. complex likely correlates with the breakfast hill granite and the breakfast hill member of the rye gneiss.

METAMORPHIC ROCKS: Generally consist of soft to hard phyllite, meta–graywacke, quartzite, amphibolie, and schist. These rocks likely correlate with the Rye Gneiss.

TOP OF GROUNDWATER

MANGANESE ISOCONCENTRATION

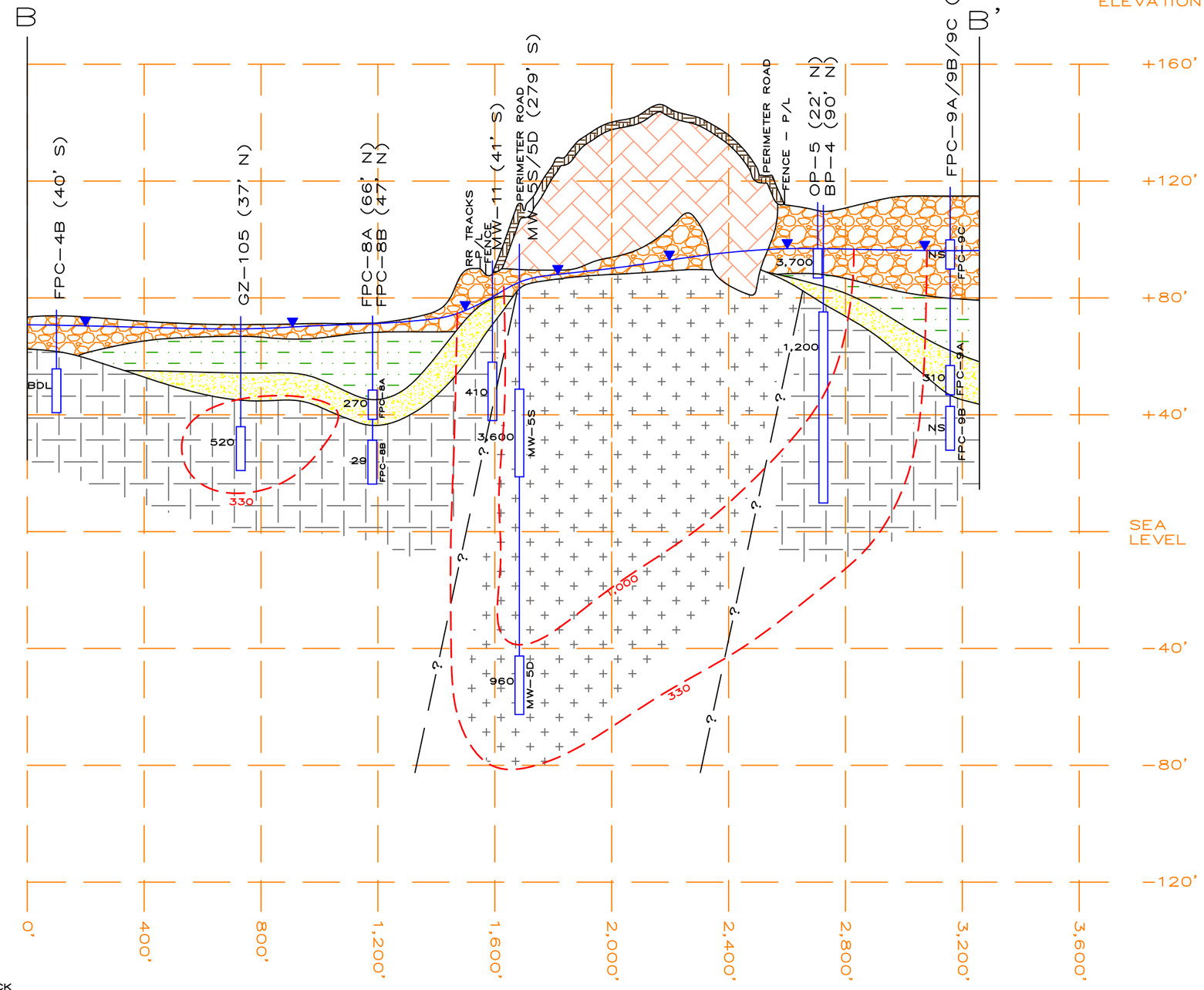
WELL DESIGNATION (OFFSET DISTANCE AND DIRECTION)

GROUNDWATER AND MANGANESE DATA BASED ON AUGUST 2012 DATA

740

SCREENED / OPEN INTERVAL

TOTAL MANGANESE CONCENTRATION (µg/l)



0 400 800 1,200

HORIZONTAL SCALE: 1"=400'

0 40 80 120

VERTICAL SCALE: 1"=40'

GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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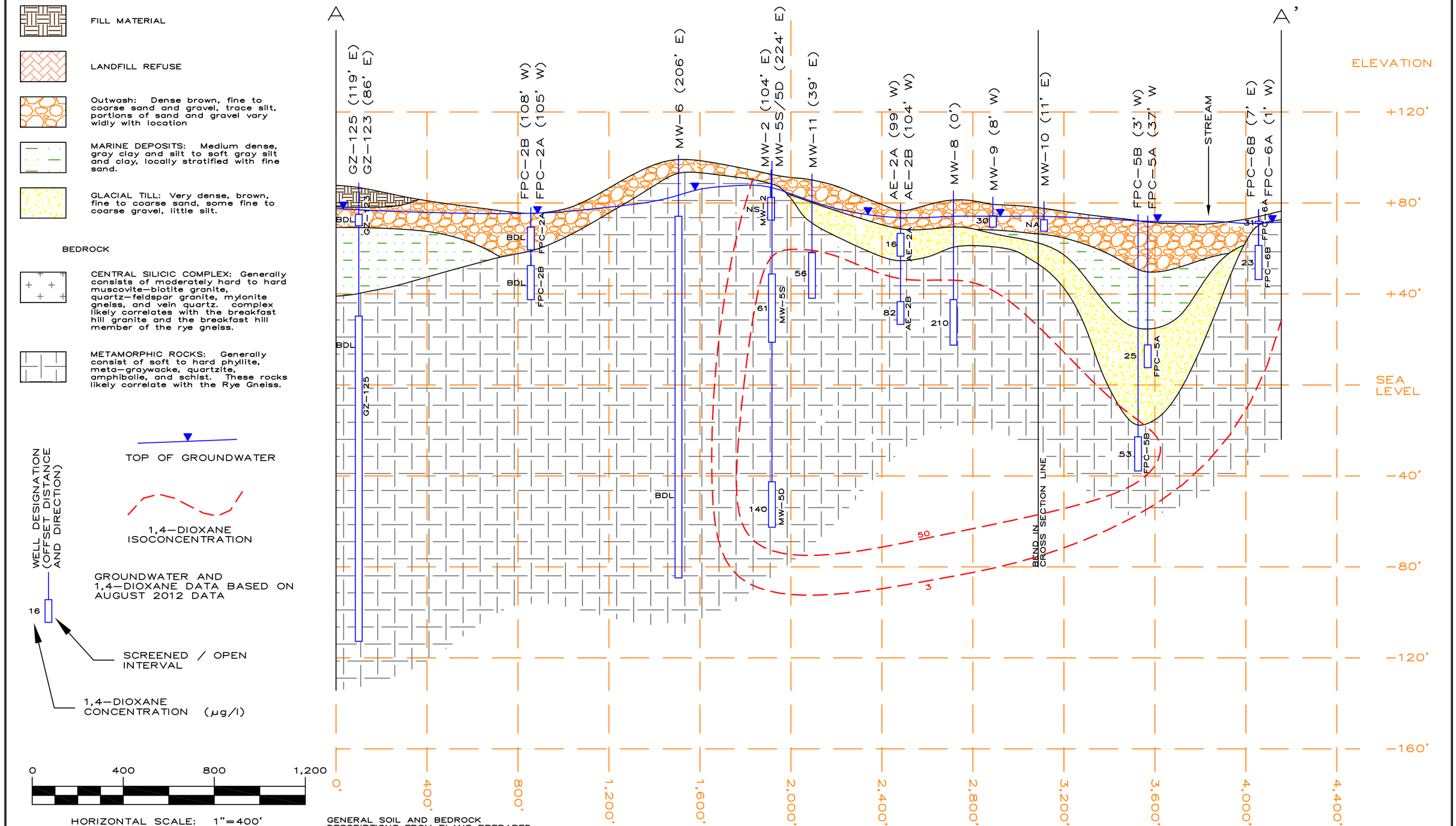
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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION B–B'
SHOWING TOTAL MANGANESE CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 13



GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION A–A'
SHOWING 1,4–DIOXANE CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 14

FILL MATERIAL

LANDFILL REFUSE

Outwash: Dense brown, fine to coarse sand and gravel, trace silt, portions of sand and gravel vary widly with location

MARINE DEPOSITS: Medium dense, gray clay and silt to soft gray silt and clay, locally stratified with fine sand.

GLACIAL TILL: Very dense, brown, fine to coarse sand, some fine to coarse gravel, little silt.

BEDROCK

CENTRAL SILICIC COMPLEX: Generally consists of moderately hard to hard muscovite–biotite granite, quartz–feldspar granite, mylonite gneiss, and vein quartz. complex likely correlates with the breakfast hill granite and the breakfast hill member of the rye gneiss.

METAMORPHIC ROCKS: Generally consist of soft to hard phyllite, meta–graywacke, quartzite, amphibolie, and schist. These rocks likely correlate with the Rye Gneiss.

TOP OF GROUNDWATER

1,4–DIOXANE ISOCONCENTRATION

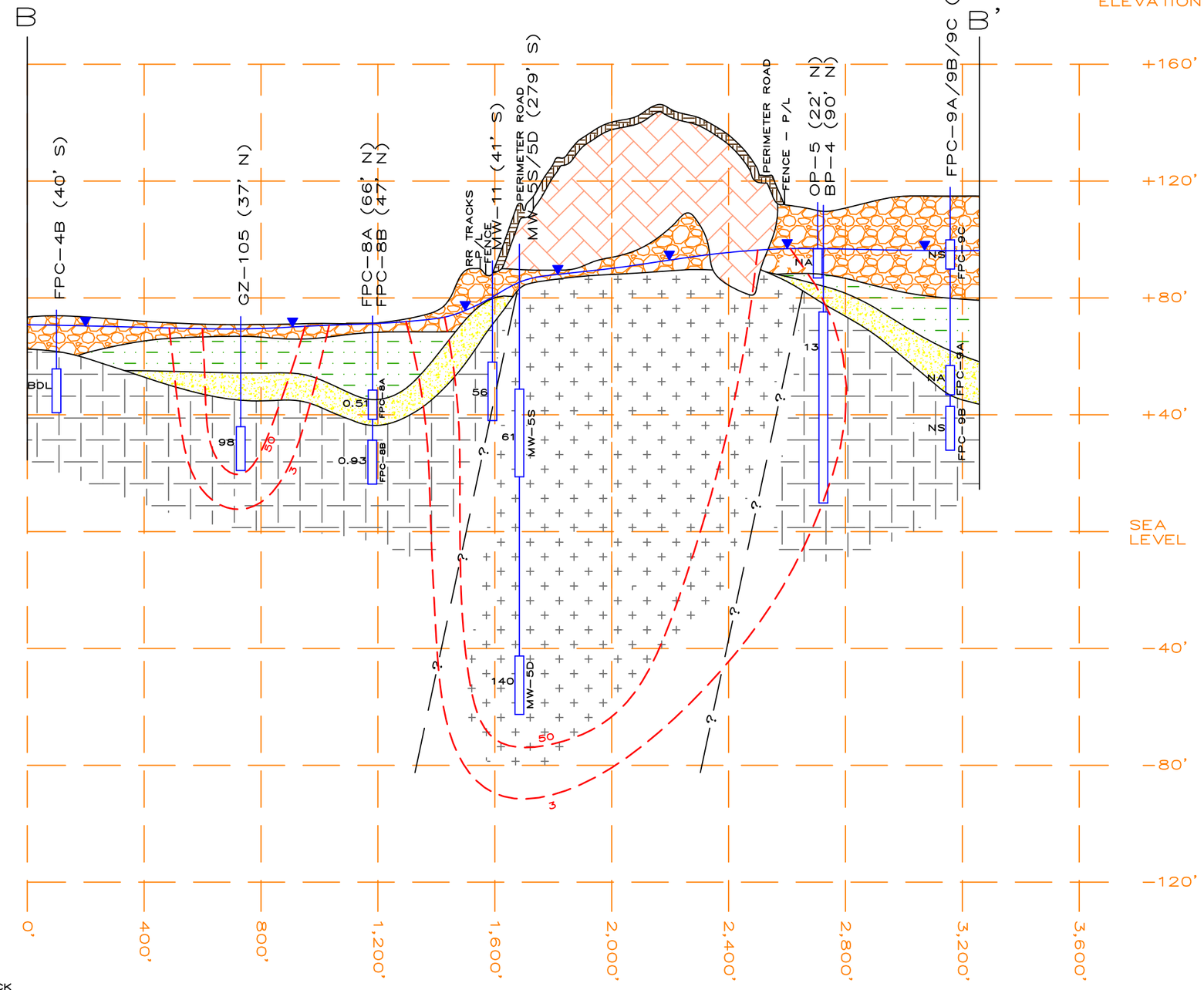
GROUNDWATER AND 1,4–DIOXANE DATA BASED ON AUGUST 2012 DATA

WELL DESIGNATION (OFFSET DISTANCE AND DIRECTION)

16

SCREENED / OPEN INTERVAL

1,4–DIOXANE CONCENTRATION (µg/l)



0 400 800 1,200

HORIZONTAL SCALE: 1"=400'

0 40 80 120

VERTICAL SCALE: 1"=40'

GENERAL SOIL AND BEDROCK DESCRIPTIONS FROM PLANS PREPARED BY GZA/WESTON, REMEDIAL INVESTIGATION – OCT. 1988

BOTTOM OF REFUSE BASED ON A PLAN PREPARED BY ARIES ENGINEERING, INC. NOV. 1999 MONITORING PLAN REPORT, FIGURE 5, FEBRUARY 2000

BORING LOGS AND WELL CONSTRUCTION DETAILS FROM MULTIPLE SOURCES WERE USED

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COAKLEY LANDFILL
NORTH HAMPTON, NH

CROSS SECTION B–B'
SHOWING 1,4–DIOXANE CONCENTRATIONS

DATE	
AUGUST 2012	
ENG. BY KMM	DRWN. BY KMM
CHKD.BY KMM	PROJ. NO. P2081

FIGURE 15

TABLES

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION DATA
2012 ANNUAL MONITORING REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

MONITORING WELL IDENTIFICATION	Ref. Pt Elev. (FT. NGVD)	Screened Interval FT.	Apr-93 GW. EL. FT.	Dec-96 GW. EL. FT.	Apr-97 GW. EL. FT.	Sep-97 GW. EL. FT.	Dec-97 GW. EL. FT.	Jun-98 GW. EL. FT.	Aug-98 GW. EL. FT.	Apr-99 GW. EL. FT.	Aug-99 GW. EL. FT.	Nov-99 GW. EL. FT.	Apr-00 GW. EL. FT.	Aug-00 GW. EL. FT.	Nov-00 GW. EL. FT.	Apr-01 GW. EL. FT.	Aug-01 GW. EL. FT.	Jun-02 GW. EL. FT.	Aug-02 GW. EL. FT.	Aug-03 GW. EL. FT.	Aug-04 GW. EL. FT.	Aug-05 GW. EL. FT.	Aug-06 GW. EL. FT.	Nov-07 GW. EL. FT.	Aug-08 GW. EL. FT.	Aug-09 GW. EL. FT.	Aug-10 GW. EL. FT.	Aug-11 GW. EL. FT.	Aug-12 GW. EL. FT.
BP-4	111.70	33.6-99.0		98.94	97.83	96.07	95.84	99.55	97.03	97.04	95.26	95.93	97.1	96.93	96.03	99.37	96.29	97.27	96.26	96.51	96.89	96.34	97.71	95.72	97.52	99.00	96.55	96.75	96.48
MW-2	94.54	10-20															86.75	89.00				NM	NM	88.61	88.95	88.40	87.88	88.79	86.85
MW-4	129.12	28-38	101.52							98.41	95.94	96.78	97.92	97.61	96.65	100.33	96.88	98.01	96.99	97.07	97.35	96.71	98.12	96.17	97.98	98.43	96.93	97.20	96.90
MW-5S	98.42	48-78	93.69							88.35	84.27	87.42	87.96	87.57	87.70	88.70	85.79	87.92	85.24	85.17	87.35	85.00	87.88	86.00	87.93	87.45	86.16	86.35	85.48
MW-5D	98.39	139-159								89.89	85.84	88.77	89.41	88.59	88.98	90.39	87.27	89.27	86.79	87.89	88.63	86.69	88.49	87.28	89.09	89.02	87.63	87.78	86.92
MW-6	101.15	25-184	93.4	93.84	93.44	90.04	92.25	93.44	91.33	92.55	88.03	91.98	92.52	92.20	92.32	93.23	89.79	92.50	89.16	90.09	92.13	89.01	92.46	90.52	92.42	91.93	90.58	90.73	89.66
MW-8	85.30	44-65		81.1	79.46	78.48	78.07	78.71	76.66	78.6	75.32	77.91	78.37	77.98	78.50	78.61	76.30	78.21	75.92	76.60	77.86	75.94	78.18	76.89	78.48	77.89	76.63	77.54	75.98
MW-9	82.62	5-10		77.97	78.03	75.87	76.06	77.16	74.47	75.82	73.42	75.46	76.09	76.00	76.86	76.88	74.10	75.74	73.81	73.28	76.13	73.94	75.71	75.80	76.88	75.35	74.64	77.15	74.15
MW-10	80.60	5-10		74.56	74.67	73.96	74.07	74.68	73.17	74.51	72.78	74.57	74.63	74.83	75.06	75.22	73.93	74.91	73.45	74.20	74.93	73.99	74.71	74.95	74.86	74.50	74.21	75.46	74.22
MW-11	92.70	32-52		87.21	85.36	83.56	83.81	83.69	81.77	83.42	79.17	82.42	82.8	82.35	82.40	83.09	80.59	82.67	80.11	81.24	82.26	79.85	82.89	81.07	82.99	82.58	81.08	81.54	80.36
OP-2	98.49	7-12	91.44	95.86	95.4				92.85	92.11	89.52	90.88	91.86	91.76	91.24	85.74	90.49	91.98	90.34	90.75	91.54	90.43	92.29	90.77	92.53	92.47	90.99	91.66	91.01
OP-5	112.68	13-23	94.92	99.26	98.28	96.59	96.41	100.41	100.41	97.39	95.84	96.41	97.58	97.33	96.40	107.29	97.54	97.72	96.82	96.98	97.31	96.78	98.03	96.04	97.81	98.28	96.91	97.22	96.86
RMW-3	117.61	29-34	95.03	99.81	98.45				90.96	89.61	87.25	88.15	89.3	89.17	88.32	91.58	88.59	89.82	88.60	88.58	88.62	88.73	obstructed	obstructed	obstructed	obstructed	obstructed	obstructed	obstructed
AE-1A	127.00	54-64								97.95	95.55	96.21	97.37	97.23	96.34	99.67	96.54	97.54	96.53	96.67	97.05	97.35	98.10	95.89	97.74	98.19	96.74	97.00	96.63
AE-1B	126.80	75-85								97.91	95.51	96.13	97.35	97.19	96.31	99.65	96.43	97.51	96.51	96.65	97.09	96.49	98.09	95.87	97.73	97.98	96.55	96.93	96.61
AE-2A	79.60	10-20									72.49	75.74	75.71	75.67	76.03	75.69	73.58	75.66	72.98	73.75	75.19	73.18	75.70	74.69	75.81	75.29	73.76	75.00	73.52
AE-2B	79.50	40-50									72.59	75.79	75.79	75.44	76.04	75.78	73.49	75.65	73.16	74.42	75.33	73.60	75.61	74.22	75.94	76.02	74.35	74.26	74.01
AE-3A	86.10	-17.5								77.47	76.64	77.74	77.56	77.99	77.92	77.80	77.05	77.70	76.86	76.30	77.90	77.14	78.02	77.90	77.98	78.68	77.30	78.30	77.04
AE-3B	87.30	28-40								78.55	77.19	78.38	78.35	78.47	78.61	78.64	78.30	78.49	77.47	77.90	78.58	76.86	78.66	78.47	78.50	78.32	77.76	78.84	77.50
AE-4A	77.20	5-15																			73.47	70.75	73.75	72.91	73.10	73.20	71.49	73.10	70.80
AE-4B	77.50	34-44																			73.42	70.51	73.30	72.28	73.61	73.01	71.10	72.18	70.58
FPC-2A	78.40	6-16											75.69	76.70	76.98	NR		76.66	78.40	76.24	76.31	75.66	76.32	75.90	76.30	76.12	75.62	75.98	75.41
FPC-2B	77.98	22.5-37.5											77.47	77.30	77.71	77.78		77.38	76.37	76.81	77.28	76.45	77.30	76.90	77.46	77.26	76.45	74.94	76.51
FPC-4B	75.83	18-33	71.83																	69.96	71.58	68.21	71.63	70.95	71.81	71.24	69.80	71.01	69.51
FPC-5A	74.30	54-64	75.01	74.44	74.44	73.94		74.44	73.29	74.14	72.2	73.93	73.9	73.98	74.18	74.14	73.02	73.10	73.03	73.10	74.30	72.18	73.50	73.50	73.73	73.37	72.73	72.91	72.05
FPC-5B	74.90	95-110	74.85	74.81	74.81	73.91	74.21	74.81	73.3	74.6	72.38	74.48	74.25	74.60	74.77	74.70	73.43	70.96	73.15	74.23	74.40	73.19	74.66	74.50	74.85	74.46	73.74	74.33	72.95
FPC-6A	77.00	1.75-2.75	73.23							72.74		72.84	72.85	72.85	73.11	73.01		72.65			72.83	70.71	72.83	72.38	73.02	72.22	68.68	69.67	68.57
FPC-6B	77.10	13-28	73.20							72.81	69.86	72.94		72.09	73.21	73.14	70.88	72.33	70.30	71.94	70.32	68.37	70.47	70.19	72.93	72.35	71.26	72.35	71.06
FPC-7A	82.08	16.7-21.7	81.63							81.36										80.12	80.99	80.03	81.46	81.30	81.49	81.16	80.39	81.10	80.20
FPC-7B	82.33	29.8-44.8	80.53							80.93										79.82	80.72	79.69	81.02	79.43	81.20	80.87	80.14	80.82	79.95
FPC-8A	73.80	23-33	73.85	73.67	73.65	71.49	73.15	73.49	71.01	73.04	69.23	72.93	72.93	72.88	73.34	73.20	71.06	72.99	70.36	71.26	72.86	70.63	73.01	72.20	73.09	72.73	71.62	72.46	71.31
FPC-8B	73.60	40-55	72.83	73.52	73.49	71.44	73.04	73.33	70.84	72.88	69.14	72.77	72.78	72.63	73.18	72.99	70.93	72.79	70.07	71.22	72.69	70.58	72.83	72.03	72.00	72.68	71.10	72.28	71.16
FPC-9A	117.57	58-68	99.87							97.32	95.02	95.72	96.92	96.75	95.90	99.22	96.25	97.05	96.02	96.27	96.40	95.83	97.59	95.48	97.44	97.90	96.37	96.58	96.18
FPC-9B	117.87	72-87	99.99							97.81	95.07	95.79	96.98	96.83	95.99	99.28	96.15	97.08	96.11	96.37	NM	NM	NM	95.14	97.41	97.93	96.42	96.96	96.21
FPC-9C	117.75	15-25	100.45							97.87	95.77	96.33		97.25	96.50	99.62	NM	97.52		96.75	NM	NM	NM	96.08	97.62	98.10	96.75	96.65	96.78
FPC-11A	117.95	47-52	100.4							97.7										96.65	97.01	96.51	97.71	95.81	97.58	97.95	96.50	96.68	96.38
FPC-11B	117.90	58-73	96.5							97.74										96.70	96.90	96.34	97.69	95.54	97.57	97.89	96.56	97.10	96.37
GZ-105	73.60	35-50	66.42							70.86	67.46	70.77	70.78	69.82	71.16	71.02	69.31	70.83	68.45	69.71	71.09	69.28	70.91	70.68	71.05	70.78	69.83	70.71	69.47
GZ-123	87.49	9.5-16.5																						76.91	77.90	78.28	77.05	77.42	77.01
GZ-125	88.77	57-200																						80.35	81.73	81.87	80.36	80.32	80.07

NOTES:
1. Shaded data denotes a bedrock monitoring well.
2. A blank indicates data was not collected.
3. GW.EL. indicates groundwater elevation and FT. indicates measurements were in feet.
4. Well Screened intervals from surface grade.

TABLE 2

SUMMARY OF OU-1 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

CONTAMINANT OF CONCERN	**INTERIM**	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	**MW-5S**	**MW-5S**	**MW-5S**	**MW-5S**	**MW-5S**	**MW-5S**	**MW-5S**
DATE SAMPLED	**CLEANUP**	30-Aug-05	30-Aug-06	16-Nov-07	13-Aug-08	20-Aug-09	17-Aug-10	18-Aug-11	28-Aug-12	29-Aug-06	9-Nov-07	13-Aug-08	20-Aug-09	19-Aug-10	19-Aug-11	27-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	**LEVEL**															
Acetone	**6,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	5	4	3	4	4	3
Chlorobenzene	**100**	4	NA	NA	NA	NA	NA	NA	NA	BDL	3	2	2	3	2	BDL
Chloroethane		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	13	9	8	7	7	6
Chloromethane	**30**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	**75**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	3	2	3	3	3	2
1,1 Dichloroethane	**81**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	**700**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	**800**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	2	1	1	2	2	1
p - Isopropyltoluene	**260**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	**20**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether	**1,400**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	52	45	37	40	32	27
Tetrahydrofuran	**154**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	60	40	40	40	40	30
Toluene	**1,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane				NA	NA	NA	6	6	2.5		NA	NA	70	90	70	61
Methylethylketone (MEK)	**200**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)	**2,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl-t-butyl Ether (MTBE)	**13**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tertiary-butyl Alcohol (TBA)			NA	NA	NA	NA	NA	NA	NA		BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																
Aluminum		BDL	34,000	28,000	34,000	BDL	140	300	140	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	**10**	130	43	58	69	70	64	81	80	10	26	26	18	16	18	17
Barium		530	190	200	250	73	71	67	52	190	210	190	180	180	180	180
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		120,000	66,000	88,000	80,000	65,000	66,000	63,000	60,000	54,000	45,000	43,000	42,000	34,000	33,000	34,000
Chromium	**50**	600	150	140	190	2	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		170	38	71	78	2	2	3	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (Total)		380,000	110,000	160,000	150,000	24,000	22,000	24,000	20,000	17,000	25,000	23,000	16,000	13,000	14,000	13,000
Dissolved Iron		17,000	27,000	24,000	50,000	23,000	21,000	22,000	18,000	19,000	23,000	21,000	14,000	12,000	14,000	13,000
Lead	**15**	100	23	37	43	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		84,000	38,000	39,000	47,000	24,000	19,000	19,000	16,000	30,000	24,000	22,000	26,000	22,000	20,000	19,000
Mercury		BDL	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	410	99	130	150	9	8	12	6	17	22	19	14	11	10	10
Potassium		60,000	39,000	44,000	49,000	38,000	30,000	29,000	25,000	27,000	22,000	22,000	25,000	22,000	20,000	20,000
Selenium		BDL	BDL	BDL	BDL	BDL	4	BDL	BDL	BDL	BDL	BDL	1	8	BDL	5
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL
Sodium		52,000	56,000	39,000	43,000	34,000	31,000	30,000	20,000	76,000	110,000	87,000	94,000	99,000	85,000	89,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		540	91	190	210	6	BDL	BDL	8	6	14	BDL	BDL	BDL	BDL	BDL
Cobalt		130	34	53	53	5	4	4	3	8	11	11	7	4	4	4
Beryllium	**4**	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	13,000	4,500	5,900	5,800	1,200	1,100	1,300	1,200	3,700	4,400	3,900	3,400	2,900	2,900	3,600
Dissolved Manganese		1,500	1,300	1,300	2,600	1,200	1,000	1,100	1,000	3,700	4,200	4,300	3,200	2,800	3,000	3,600
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	350	63	82	91	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
FIELD PARAMETERS																
Temperature Degrees C		18.55	17.10	13.20	18.36	15.50	15.00	15.24	15.75	12.25	9.79	13.30	12.25	11.61	13.10	12.07
pH		6.59	6.47	6.59	6.22	6.65	6.52	6.38	6.50	6.61	6.79	6.83	6.98	6.52	6.77	7.02
Conductivity in us/cm		544	1024	1029	1025	1080	1037	552	784	884	1203	1090	1095	1072	687	826
Dissolved Oxygen in mg/l		3.41	3.68	1.68	3.24	1.31	1.59	2.53	2.20	3.34	0.45	0.65	0.18	0.25	0.23	0.16
Turbidity in NTU		1071.9		10.9	6000	35.1	14.5	13.1	15.1	10.9	1.1	79.0	8.70	3.54	3.01	0.70
Oxidation/Reduction Potential in mV		-43.0	-44.0	154	22	-51	-63	-78.4	-64.1	-82.0	-128	-91	-112	-75	-131.0	-118.4

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
   Bolded wells denote bedrock wells.
2. A blank indicates data was not collected.
3. Bolded contaminants are site contaminants of concern for which interim cleanup standards (ICLs) have been established.
4. Shaded values denote exceedance of an established interim cleanup level.
5. Volatile organic compound and metals results are in micrograms per liter (ug/l).
6. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 2

SUMMARY OF OU-1 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

CONTAMINANT OF CONCERN	INTERIM	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-6	MW-6	MW-6	MW-6	MW-6 [7]	MW-6 [7]	MW-6 [7]	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
DATE SAMPLED	CLEANUP	29-Aug-06	15-Nov-07	13-Aug-08	20-Aug-09	19-Aug-10	18-Aug-11	27-Aug-12	29-Aug-06	12-Nov-07	12-Aug-08	19-Aug-09	8-Feb-11	15-Aug-11	27-Aug-12	30-Aug-06	13-Nov-07	13-Aug-08	20-Aug-09	17-Aug-10	18-Aug-11	27-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone	**6,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	2	3	2	2	2	2	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	3	4	4	6	6	6
Chlorobenzene	**100**	4	5	4	3	4	3	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	3	4	3	7	12	9
Chloroethane		24	33	38	32	31	38	41	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	19	21	18	20	27	18
Chloromethane	**30**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	**75**	BDL	2	2	2	2	2	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2	2	2	3	2
1,1 Dichloroethane	**81**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	**700**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	**800**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2	2	2	2	2
p - Isopropyltoluene	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	**20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether	**1,400**	89	130	120	100	99	100	110	BDL	BDL	BDL	BDL	BDL	BDL	BDL	114	130	110	99	98	88	73
Tetrahydrofuran	**154**	110	110	110	90	90	110	90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	239	180	180	180	160	140	100
Toluene	**1,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene	**330**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	2	1	1	1	1	BDL
1,3,5 Trimethylbenzene	**330**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1	BDL
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	3	2	1	1	1	1
1,4-Dioxane			NA	NA	140	150	140	140		NA	NA	BDL	NA	BDL	BDL		NA	NA	310	230	200	210
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)	**2,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl-t-butyl Ether (MTBE)	**13**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tertiary-butyl Alcohol (TBA)			60	50	40	40	50	40		BDL	BDL	BDL	BDL	BDL	BDL		70	70	60	50	50	40
METALS IN ug/l																						
Aluminum		8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	26	60	60	BDL	BDL	BDL	BDL
Arsenic	**10**	5	11	5	6	10	10	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	10	8	8	13	16	18
Barium		120	130	110	120	110	130	130	BDL	BDL	BDL	BDL	7	5	6	170	170	190	210	240	340	340
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		48,000	30,000	31,000	32,000	32,000	29,000	35,000	15,000	13,000	11,000	11,000	15,000	15,000	16,000	55,000	31,000	36,000	42,000	41,000	38,000	44,000
Chromium	**50**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	1	2	2	9	12	BDL	1	BDL	BDL	BDL	BDL	BDL
Iron (Total)		17,000	15	12,000	15,000	13,000	13,000	15,000	1,200	5,800	1,800	8,000	4,900	17,000	16,000	5,900	4,300	6,500	5,600	5,200	9,900	10,000
Dissolved Iron		NA	NA	NA	NA	NA	NA	NA	900	3,900	250	340	2,800	2,500	1,000	NA	NA	NA	NA	NA	NA	NA
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		44,000	27,000	26,000	32,000	28,000	25,000	28,000	6,200	5,200	4,000	4,500	5,200	5,700	5,700	68,000	36,000	40,000	50,000	45,000	42,000	44,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	14	11	12	10	9	9	9	BDL	3	1	2	2	2	4	18	19	26	22	17	19	20
Potassium		30,000	22,000	23,000	25,000	22,000	21,000	22,000	1,800	1,700	1,500	1,600	1,600	1,700	1,900	17,000	12,000	14,000	14,000	16,000	18,000	20,000
Selenium		4	BDL	2	4	18	BDL	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	3	5	4	BDL	12
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		140,000	170,000	160,000	140,000	140,000	130,000	130,000	10,000	12,000	10,000	11,000	11,000	12,000	12,000	180,000	240,000	210,000	210,000	190,000	170,000	180,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		7	BDL	BDL	BDL	BDL	BDL	BDL	13	9	6	8	14	21	26	6	18	BDL	BDL	BDL	BDL	BDL
Cobalt		BDL	BDL	1	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	1	BDL	1	BDL	3	6	3	2	5	5
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	890	860	780	770	730	780	960	540	740	520	490	1,900	1,800	2,500	2,500	1,600	1,900	2,000	2,100	1,700	2,200
Dissolved Manganese		NA	NA	NA	NA	NA	NA	NA	540	820	470	510	1,900	1,800	2,400	NA	NA	NA	NA	NA	NA	NA
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	1	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	2	2	1	2	BDL
FIELD PARAMETERS																						
Temperature Degrees C		11.33	11.48	12.37	12.70	12.09	13.27	12.14	11.77	10.38	11.22	12.18	5.83	14.64	13.70	13.09	10.46	13.51	13.95	16.30	12.53	14.71
pH		7.22	7.09	7.07	6.96	7.21	6.80	7.29	6.86	5.82	5.95	6.02	6.04	6.33	6.78	6.73	7.22	7.29	7.88	6.81	5.60	6.86
Conductivity in us/cm		1146	1570	1451	12	1510	1367	1431	138	196	148	152	238	244	232	1339	1670	1570	1660	1630	1555	1601
Dissolved Oxygen in mg/l		1.32	0.49	0.18	9.68	0.09	0.33	0.16	1.68	0.98	0.58	5.84	1.53	2.34	2.23	2.11	1.15	0.96	0.20	0.27	0.47	0.27
Turbidity in NTU		10.0	3.33	103	11.0	1.34	1.76	8.54	8.1	17.0	315	40.6	19.3	109.2	69.3	7.9	14	100	0.30	1.68	11.4	1.44
Oxidation/Reduction Potential in mV		-171.0	1	-127	-141	-166	-161.4	-145.6	-76.0	95	120	83	34	302	-72.6	-55	45	-151	-163	-102	-129.3	-171.1

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
   Bolded wells denote bedrock wells.
2. A blank indicates data was not collected.
3. Bolded contaminants are site contaminants of concern for which interim cleanup standards (ICLs) have been established.
4. Shaded values denote exceedance of an established interim cleanup level.
5. Volatile organic compound and metals results are in micrograms per liter (ug/l).
6. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt
* Data obtaiend from previous reports and appears to be in error.
7. February 2011 and subsequent samples collected from MW-6 at a different depth and using a discrete interval sampler

TABLE 2

SUMMARY OF OU-1 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

CONTAMINANT OF CONCERN	INTERIM	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
DATE SAMPLED	CLEANUP	25-Aug-05	29-Aug-06	13-Nov-07	13-Aug-08	18-Aug-09	17-Aug-10	18-Aug-11	28-Aug-12	26-Aug-05	29-Aug-06	13-Nov-07	13-Aug-08	18-Aug-09	18-Aug-10	19-Aug-11	28-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																
Acetone	**6,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Benzene	**5**	5	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	79	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Chloroethane		5	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Chloromethane	**30**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene	**75**	19	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane	**81**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	**700**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	**800**	2	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene	**260**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Naphthalene	**20**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether	**1,400**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	**154**	84	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Toluene	**1,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
m&p - Xylene		4	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane				NA	NA	NA	16	14	30			NA	NA	NA	NA	NA	NA
Methylethylketone (MEK)	**200**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)	**2,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Methyl-t-butyl Ether (MTBE)	**13**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Tertiary-butyl Alcohol (TBA)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
METALS IN ug/l																	
Aluminum		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19	BDL	70	50	BDL	BDL	BDL
Arsenic	**10**	280	81	56	57	78	120	130	140	24	11	12	9	17	19	12	19
Barium		92	66	41	39	58	120	110	140	89	55	64	19	46	71	54	67
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		86,000	55,000	27,000	35,000	39,000	68,000	58,000	82,000	81,000	53,000	52,000	17,000	45,000	64,000	43,000	70,000
Chromium	**50**	3	BDL	BDL	BDL	BDL	1	BDL	1	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL
Copper		3	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (Total)		51,000	65,000	16,000	34,000	37,000	55,000	37,000	46,000	46,000	27,000	28,000	6,600	29,000	35,000	20,000	30,000
Dissolved Iron		56,000	57,000	17,000	35,000	45,000	48,000	32,000	44,000		NA	NA	NA	NA	NA	NA	NA
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		45,000	22,000	12,000	11,000	12,000	24,000	23,000	27,000	23,000	14,000	15,000	3,900	11,000	18,000	13,000	19,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	14	5	16	7	4	5	5	14	14	7	8	3	5	6	4	5
Potassium		25,000	15,000	6,800	7,300	9,700	19,000	15,000	20,000	20,000	9,400	12,000	5,200	8,600	13,000	10,000	12,000
Selenium		6	BDL	BDL	BDL	BDL	6	BDL	5	3	BDL	BDL	BDL	BDL	5	BDL	3
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		98,000	35,000	38,000	28,000	19,000	60,000	56,000	71,000	110,000	35,000	90,000	14,000	31,000	72,000	50,000	71,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		4	3	BDL	BDL	BDL	BDL	BDL	BDL	7	16	19	5	6	6	BDL	BDL
Cobalt		4	BDL	12	7	3	2	2	11	5	7	6	2	5	3	2	2
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	710	2,400	1,200	3,500	2,100	1,400	880	1,400	3,500	3,200	2,800	760	2,200	2,700	1,600	3,000
Dissolved Manganese		820	2,200	1,400	3,300	2,300	1,300	940	1,300	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL
FIELD PARAMETERS																	
Temperature Degrees C		15.34	14.9	10.66	15.67	15.15	15.76	14.85	16.22	15.32	16.3	10.22	17.40	17.05	16.01	15.28	16.44
pH		6.54	6.4	6.01	6.08	6.54	5.91	6.14	6.27	6.69	6.47	6.31	6.12	6.49	6.09	6.32	6.47
Conductivity in us/cm		1273	644.6	491	473	578	1154	738	1222	1033	464.4	960	220	564	897		857
Dissolved Oxygen in mg/l		0.78	622 *	0.68	0.42	0.35	0.41	0.40	0.84	2.26	735 *	0.48	0.52	0.28	0.44	0.30	0.32
Turbidity in NTU		28.8	13.3	2.48	81.9	3.38	1.8	1.25	1.90	12.2	9.8	2.28	19.0	2.81	1.90	3.95	1.33
Oxidation/Reduction Potential in mV		-101.5	-55	38	-19	-59	-4	-66.3	-155.5	-106.4	-65	37	9	-69	-8	-64.7	-160.1

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
   Bolded wells denote bedrock wells.
2. A blank indicates data was not collected.
3. Bolded contaminants are site contaminants of concern for which interim cleanup standards (ICLs) have been established.
4. Shaded values denote exceedance of an established interim cleanup level.
5. Volatile organic compound and metals results are in micrograms per liter (ug/l).
6. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

* Data obtaiend from previous reports and appears to be in error.

TABLE 2

SUMMARY OF OU-1 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

CONTAMINANT OF CONCERN	INTERIM	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	RMW-3	RMW-3	OP-2	OP-2	OP-2	OP-2	OP-2	OP-2	OP-2	OP-2
DATE SAMPLED	CLEANUP	29-Aug-06	8-Nov-07	13-Aug-08	19-Aug-09	18-Aug-10	19-Aug-11	29-Aug-12	26-Aug-05	8-Nov-07	26-Aug-05	29-Aug-06	9-Nov-07	13-Aug-08	18-Aug-09	18-Aug-10	17-Aug-11	27-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																	
Acetone	**6,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Benzene	**5**	5	8	5	4	3	2	2	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	2	3	2	2	BDL	BDL	BDL	8		2	NA	NA	NA	NA	NA	NA	NA
Chloroethane		20	32	19	19	9	8	6	BDL		13	NA	NA	NA	NA	NA	NA	NA
Chloromethane	**30**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene	**75**	BDL	2	1	1	1	1	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane	**81**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		3	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	**700**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	**800**	BDL	4	2	2	1	2	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Naphthalene	**20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether	**1,400**	47	75	37	34	24	18	13	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	**154**	50	60	30	30	20	20	10	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Toluene	**1,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene	**330**	BDL	2	BDL	1	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene	**330**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
m&p - Xylene		8	12	4	6	4	3	2	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane			NA	NA	100	45	40	56					NA	NA	NA	1	1	1
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)	**2,000**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Methyl-t-butyl Ether (MTBE)	**13**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA	NA	NA	NA	NA	NA
Tertiary-butyl Alcohol (TBA)			BDL	BDL	BDL	BDL	BDL	BDL				NA	NA	NA	NA	NA	NA	NA
METALS IN ug/l																		
Aluminum		BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,500		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	**10**	10	15	13	11	11	8	9	110		25	200	190	170	200	220	210	220
Barium		96	95	89	83	74	73	68	46		21	19	19	20	17	16	15	15
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		31,000	26,000	22,000	24,000	21,000	20,000	22,000	47,000		49,000	40,000	37,000	40,000	42,000	39,000	36,000	36,000
Chromium	**50**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA		BDL	BDL	BDL	BDL	14	BDL	BDL	BDL
Iron (Total)		17,000	15,000	19,000	15,000	13,000	12,000	12,000	57,000		47,000	44,000	48,000	57,000	48,000	44,000	45,000	39,000
Dissolved Iron		NA	NA	NA	NA	NA	NA	NA			47,000	49,000	50,000	61,000	45,000	37,000	43,000	44,000
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
Magnesium		25,000	19,000	19,000	21,000	17,000	17,000	16,000	14,000		130,000	12,000	9,300	10,000	11,000	9,400	7,700	7,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	8	12	18	8	6	5	5	22		11	7	7	6	7	9	7	34
Potassium		10,000	9,300	8,800	9,800	8,100	8,500	8,500	19,000		28,000	23,000	17,000	21,000	21,000	16,000	14,000	14,000
Selenium		BDL	BDL	BDL	BDL	4	BDL	2	BDL		BDL	BDL	BDL	BDL	BDL	2	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		110,000	140,000	110,000	110,000	100,000	80,000	76,000	18,000		17,000	17,000	12,000	16,000	18,000	15,000	13,000	13,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		6	32	BDL	BDL	BDL	BDL	BDL	13		2	5	BDL	BDL	16	BDL	BDL	13
Cobalt		BDL	3	6	2	2	2	2	13		4	BDL	5	4	4	5	5	4
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	450	410	440	390	340	350	410	2,900		390	470	620	580	630	760	1,000	1,000
Dissolved Manganese		NA	NA	NA	NA	NA	NA	NA	NA		450	480	650	550	620	640	960	1,100
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2		4	BDL	BDL	1	1	BDL	BDL	BDL
FIELD PARAMETERS																		
Temperature Degrees C		12.27	9.50	12.14	12.30	14.05	13.90	11.53	13.11		17.2	16.33	10.41	16.25	14.55	14	13.95	14.96
pH		6.89	6.72	6.88	7.04	6.5	5.39	6.93	6.22		6.33	6.55	6.17	6.12	6.57	6.01	4.43	6.40
Conductivity in us/cm		800.3	1420	830	858	751	483	714	287		671	480.9	675	669	707	627	539	581
Dissolved Oxygen in mg/l		0.37	0.22	0.60	0.61	0.32	0.18	0.16	3.7		2.93	8.77	0.72	1.12	0.2	0.28	0.43	0.34
Turbidity in NTU		24.3	2.17	34.7	8.54	3.25	4.35	0.66	93.3		16.1	14.2	1.97	15.8	1.01	2.84	1.64	2.89
Oxidation/Reduction Potential in mV		-204	-30	-102	-104	-67	-98.5	-194.7	15.4		-54.1	-161	-11	-27	-54	7	-49.7	-144.1

WELL OBSTRUCTED - NO FURTHER SAMPLING

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
   Bolded wells denote bedrock wells.
2. A blank indicates data was not collected.
3. Bolded contaminants are site contaminants of concern for which interim cleanup standards (ICLs) have been established.
4. Shaded values denote exceedance of an established interim cleanup level.
5. Volatile organic compound and metals results are in micrograms per liter (ug/l).
6. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 2

SUMMARY OF OU-1 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

CONTAMINANT OF CONCERN	INTERIM	OP-5	OP-5	OP-5	OP-5	OP-5	OP-5	OP-5	OP-5	BP-4	BP-4	BP-4	BP-4	BP-4	BP-4 [7]	BP-4 [7]	BP-4 [7]
DATE SAMPLED	CLEANUP	26-Aug-05	30-Aug-06	9-Nov-07	13-Aug-08	19-Aug-09	18-Aug-10	17-Aug-11	28-Aug-12	26-Aug-05	30-Aug-06	9-Nov-07	13-Aug-08	19-Aug-09	8-Feb-11	15-Aug-11	28-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																
Acetone	**6,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Benzene	**5**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Chloroethane		BDL	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA	NA	NA	NA
Chloromethane	**30**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene	**75**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane	**81**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	**700**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	**800**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene	**260**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Naphthalene	**20**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether	**1,400**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	**154**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Toluene	**1,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene	**330**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
m&p - Xylene		BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane				NA	NA	NA	BDL	BDL	NA			NA	NA	NA	9	10	13
Methylethylketone (MEK)	**200**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)	**2,000**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Methyl-t-butyl Ether (MTBE)	**13**	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA
Tertiary-butyl Alcohol (TBA)			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
METALS IN ug/l																	
Aluminum		1500	BDL	BDL	BDL	BDL	BDL	70	BDL	77	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	**10**	25	27	33	17	13	19	27	30	11	26	30	23	22	34	33	34
Barium		25	13	23	15	13	15	17	18	63	53	55	43	39	47	48	47
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		15,000	15,000	14,000	8,800	7,600	9,200	10,000	12,000	62,000	69,000	51,000	48,000	50,000	49,000	44,000	55,000
Chromium	**50**	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		6	BDL	BDL	1	BDL	BDL	1	BDL	7	BDL	BDL	BDL	BDL	BDL	13	BDL
Iron (Total)		24,000	12,000	19,000	10,000	8,100	11,000	13,000	17,000	69,000	36,000	31,000	30,000	26,000	31,000	29,000	33,000
Dissolved Iron		15,000	12,000	21,000	9,600	8,100	11,000	14,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA
Lead	**15**	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	10	BDL
Magnesium		4,500	3,600	3,200	2,200	2,300	2,300	2,600	2,500	31,000	3,800	21,000	22,000	26,000	19,000	18,000	21,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	31	22	33	30	25	27	24	26	150	9	10	13	8	15	9	8
Potassium		2,800	2,800	2,300	1,900	1,900	1,800	1,900	2,200	23,000	30,000	21,000	21,000	23,000	17,000	16,000	17,000
Selenium		BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	2
Silver		4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL
Sodium		9,900	8,600	10,000	9,000	9,000	8,000	9,000	10,000	110,000	9,200	140,000	110,000	89,000	64,000	59,000	66,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		7	7	BDL	BDL	7	BDL	BDL	BDL	5	6	BDL	BDL	11	6	44	BDL
Cobalt		20	14	23	19	15	17	17	18	80	BDL	2	3	BDL	7	2	1
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	3,800	2,500	3,800	2,300	1,800	2,200	2,700	3,700	1,700	1,300	1,200	1,100	94	1,200	1,100	1,200
Dissolved Manganese		3,500	2,600	4,000	2,200	2,000	2,300	2,800	3,200	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
FIELD PARAMETERS																	
Temperature Degrees C		12.30	13.31	9.34	11.28	11.28	10.82	10.16	11.50	11.26	11.9	9.41	13.38	13.90	7.83	13.66	16.47
pH		5.94	5.79	5.64	5.58	5.92	5.54	5.44	5.99	6.88	6.6	6.89	7.00	7.11	6.62	6.94	7.16
Conductivity in us/cm		196	150.6	253	169	150	193	182	222	1021	964.8	1204	1106	1100	1056	1117	989
Dissolved Oxygen in mg/l		2.16	1.15	0.35	0.22	0.68	0.41	0.18	0.16	1.88	2.14	0.37	1.19	2.26	1.02	3.84	1.15
Turbidity in NTU		23.2	0.7	1.49	100	2.48	2.29	1.68	0.61	35.1	2.6	1.50	27.4	7.73	1.13	11.2	5.01
Oxidation/Reduction Potential in mV		11.5	27	16	81	69	95	30.3	3.9	-107.8	-92	-85.0	-107	-153	-28	-138.2	-174.1

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
   Bolded wells denote bedrock wells.
2. A blank indicates data was not collected.
3. Bolded contaminants are site contaminants of concern for which interim cleanup standards (ICLs) have been established.
4. Shaded values denote exceedance of an established interim cleanup level.
5. Volatile organic compound and metals results are in micrograms per liter (ug/l).
6. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt
7. February 2011 and subsequent samples collected from BP-4 at a different depth and using a discrete interval sampler

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	FPC-2A	FPC-2A	FPC-2A	FPC-2A	FPC-2A	FPC-2A	FPC-2A	FPC-2B	FPC-2B	FPC-2B	FPC-2B	FPC-2B	FPC-2B	FPC-2B	FPC-4B	FPC-4B	FPC-4B	FPC-4B	FPC-4B	FPC-4B	FPC-4B
DATE SAMPLED	CLEANUP	29-Aug-06	16-Nov-07	12-Aug-08	17-Aug-09	17-Aug-10	16-Aug-11	29-Aug-12	29-Aug-06	16-Nov-07	12-Aug-08	17-Aug-09	17-Aug-10	16-Aug-11	29-Aug-12	28-Aug-06	14-Nov-07	11-Aug-08	17-Aug-09	18-Aug-10	17-Aug-11	29-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane			NA	NA	NA	NA	BDL	BDL		NA	NA	NA	NA	BDL	BDL		NA	NA	NA	NA	BDL	BDL
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																						
Aluminum		BDL	60	BDL	BDL	BDL	BDL	BDL	27	BDL	14	360	90	100	BDL	BDL	70	220	BDL	BDL	BDL	BDL
Arsenic	**10**	BDL	8	3	2	2	2	2	BDL	2	3	3	3	3	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium		12	18	13	14	13	13	13	12	12	12	17	12	11	9	3	7	5	4	6	5	5
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		22,000	18,000	16,000	19,000	15,000	16,000	18,000	11,000	7,800	6,800	7,700	7,000	6,100	6,500	5,300	4,200	3,300	3,900	4,700	4,100	4,400
Chromium	**100**	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (Total)		3,200	14,000	5,600	4,400	4,000	3,500	4,700	100	120	260	1,100	220	50	BDL	100	110	650	BDL	BDL	BDL	BDL
Dissolved Iron		3,800	1,800	3,500	4,200	2,700	2,800	2,900	900	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		14,000	12,000	9,600	11,000	8,700	9,200	9,300	1,700	1,200	980	1,300	1,000	840	670	3,500	2,800	2,100	2,500	2,900	2,600	2,300
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	0.1	BDL	0.1	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	1	1	BDL	BDL	BDL	BDL
Potassium		48,000	6,000	4,200	4,400	3,900	4,100	4,300	6,000	5,900	4,700	4,800	4,600	4,100	4,200	2,200	1,900	1,500	1,600	1,900	1,900	1,800
Selenium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		12,000	15,000	12,000	13,000	12,000	12,000	12,000	43,000	43,000	39,000	40,000	38,000	35,000	35,000	5,100	6,000	5,000	6,000	7,000	6,000	6,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		7	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	14	5	BDL	BDL	7	6	BDL	BDL	5	BDL	BDL
Cobalt		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	670	800	620	730	500	550	630	18	BDL	23	84	21	19	15	BDL	31	66	BDL	BDL	BDL	BDL
Dissolved Manganese		660	860	570	770	500	540	590	BDL	BDL	21	26	12	17	13	BDL	23	6	BDL	BDL	BDL	BDL
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		14.10	8.94	13.79	15.20	14.78	11.31	12.48	13.10	9.11	13.87	15.60	14.20	14.94	15.60	12.87	9.90	10.17	11.49	10.51	10.02	10.47
pH		6.52	6.68	6.58	6.34	5.91	6.46	6.85	7.99	7.93	7.28	7.48	7.02	8.42	8.47	6.63	5.95	6.39	6.17	6.36	6.11	6.48
Conductivity in us/cm		215	274	242	279	263	225	291	184	201	162	210	248	186	228	53	95	62	83	94	94	82
Dissolved Oxygen in mg/l		0.97	0.80	0.25	4.34	0.32	0.13	0.27	0.62	3.18	1.54	4.38	0.89	3.27	2.90	7.61	0.56	7.09	3.05	0.22	0.24	0.25
Turbidity in NTU		10.5	93	44.7	4.35	15.20	8.54	26.5	1.50	3.40	100.3	6.50	1.29	1.91	1.33	1.80	2.75	32.9	0.29	0.00	0.64	0.75
Oxidation/Reduction Potential in mV		-22	119	20	14	44	-57.7	-169.5	-131	45	-3	28	-33	-103.9	-164.1	77	164	143	189	112	118.1	163.4

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	FPC-5A	FPC-5A	FPC-5A	FPC-5A	FPC-5A	FPC-5A	FPC-5A	**FPC-5B**	**FPC-5B**	**FPC-5B**	**FPC-5B**	**FPC-5B**	**FPC-5B**	**FPC-5B**	FPC-6A	FPC-6A	FPC-6A	FPC-6A	FPC-6A	FPC-6A	FPC-6A
DATE SAMPLED	CLEANUP	28-Aug-06	14-Nov-07	13-Aug-08	20-Aug-09	18-Aug-10	19-Aug-11	30-Aug-12	25-Aug-05	15-Nov-07	13-Aug-08	20-Aug-09	18-Aug-10	19-Aug-11	30-Aug-12	28-Aug-06	14-Nov-07	13-Aug-08	17-Aug-09	19-Aug-10	18-Aug-11	29-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	2	BDL	BDL	2	1	1
Chlorobenzene	**100**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	5	BDL	3	5	3	4
Chloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	8	BDL	5	8	6	6
Chloromethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	1	BDL	BDL	2	1	1
1,1 Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p - Isopropyltoluene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	20	8	10	18	12	12
Tetrahydrofuran		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane			NA	NA	NA	NA	27	25		NA	NA	NA	NA	50	53		NA	NA	NA	NA	BDL	31
Methylethylketone (MEK)	**200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																						
Aluminum		14	BDL	BDL	BDL	BDL	90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	60	60	BDL	50
Arsenic	**10**	42	53	54	53	55	51	53	BDL	4	1	1	3	2	2	BDL	3	2	13	30	9	37
Barium		120	130	120	130	120	120	110	47	64	39	54	42	39	33	53	95	44	29	45	48	42
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		51,000	34,000	41,000	44,000	42,000	41,000	43,000	11,000	7,200	5,400	7,400	5,900	5,000	4,900	17,000	20,000	6,800	24,000	39,000	33,000	38,000
Chromium	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	2	2
Iron (Total)		9,200	8,300	11,000	9,700	9,400	9,300	8,900	360	330	280	240	220	200	190	5,500	9,000	7,400	1,900	4,100	1,200	4,600
Dissolved Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,400	8,600	5,400	2,200	3,900	1,100	4,200
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		28,000	19,000	21,000	27,000	22,000	21,000	20,000	7,100	4,600	3,300	5,000	3,600	3,000	2,500	9,300	11,000	4,200	10,000	17,000	15,000	15,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	8	4	10	7	7	6	6	5	8	6	7	6	5	5	2	5	2	5	6	5	6
Potassium		27,000	22,000	25,000	27,000	23,000	22,000	22,000	9,600	7,100	6,500	7,800	6,200	5,800	5,700	6,000	6,600	4,300	6,200	8,600	8,000	8,500
Selenium		BDL	BDL	2	BDL	5	3	3	BDL	BDL	2	2	11	5	7	BDL	BDL	BDL	BDL	5	BDL	3
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		120,000	120,000	120,000	110,000	110,000	94,000	100,000	300,000	310,000	260,000	290,000	260,000	270,000	230,000	75,000	100,000	50,000	79,000	120,000	130,000	100,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		7	BDL	BDL	BDL	6	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL
Cobalt		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	5	4	5
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	140	110	110	110	100	110	140	88	95	74	87	70	56	59	410	500	360	2,400	3,600	2,100	3,900
Dissolved Manganese		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	530	340	2,600	3,600	2,300	3,600
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	1	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	BDL	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	5,000	NA	NA	NA	NA	NA
Chloride		NA	110,000	110,000	NA	NA	NA	NA	NA	270,000	NA	NA	NA	NA	NA	NA	81,000	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	410,000	410,000	NA	NA	NA	NA	NA	360,000	NA	NA	NA	NA	NA	NA	200,000	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	BDL	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		10.50	9.55	12.82	12.01	12.67	10.91	10.50	11.60	11.83	13.67	12.25	11.31	12.19	10.83	11.10	10.73	11.72	16.01	15.78	15.90	15.15
pH		7.02	7.46	6.74	7.13	6.63	6.13	7.05	7.96	7.68	7.61	8.12	7.39	7.14	8.06	6.72	6.55	6.30	6.84	6.72	6.60	6.85
Conductivity in us/cm		501	1,180	1,108	1,153	1,133	685	1,121	466	1,467	1,174	1,354	1,252	727	1,171	143	610	319	589	934	474	766
Dissolved Oxygen in mg/l		1.08	0.33	0.25	3.35	0.28	7.54	0.12	2.36	1.45	1.61	1.06	0.37	6.95	0.18	2.07	1.32	1.41	0.29	0.85	0.50	1.44
Turbidity in NTU		11.0	2.20	93.7	4.85	1.57	1.84	1.03	0.40	0.87	4.10	4.50	0.66	0.54	0.59	27.2	5.67	12.0	1.74	4.25	0.58	2.32
Oxidation/Reduction Potential in mV		-95	-114	-6	-101	-62	-108.8	-182.0	-116	30	-87	-110	-66	-159.4	-186.5	-53	42	-13	-17	-66	-17.2	-62.3

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	FPC-6B	FPC-6B	FPC-6B	FPC-6B	FPC-6B	FPC-6B	FPC-6B	FPC-7A	FPC-7A	FPC-7A	FPC-7A	FPC-7A	FPC-7A	FPC-7A	FPC-7B	FPC-7B	FPC-7B	FPC-7B	FPC-7B	FPC-7B	FPC-7B
DATE SAMPLED	CLEANUP	28-Aug-06	14-Nov-07	13-Aug-08	17-Aug-09	19-Aug-10	18-Aug-11	29-Aug-12	28-Aug-06	16-Nov-07	13-Aug-08	18-Aug-09	20-Aug-10	18-Aug-11	31-Aug-12	28-Aug-06	16-Nov-07	13-Aug-08	18-Aug-09	20-Aug-10	18-Aug-11	31-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Benzene	**5**	BDL	2	1	BDL	2	1	2	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	3	7	4	3	5	4	4	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Chloroethane		5	11	8	BDL	7	6	6	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene		BDL	2	1	BDL	1	1	1	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Diethyl Ether		BDL	23	15	10	16	13	13	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
1,4-Dioxane			NA	NA	NA	NA	BDL	23		NA	NA	NA	NA	BDL	BDL		NA	NA	NA	NA	BDL	BDL
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA
METALS IN ug/l																						
Aluminum		140	980	90	BDL	BDL	BDL	BDL	BDL	520	320	BDL	BDL	BDL	BDL	BDL	BDL	140	60	BDL	BDL	BDL
Arsenic	**10**	5	9	14	2	3	5	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL
Barium		30	89	44	49	77	73	79	2	7	5	3	3	3	3	BDL	3	18	4	3	3	3
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		28,000	46,000	30,000	13,000	24,000	21,000	26,000	20,000	13,000	13,000	14,000	12,000	11,000	14,000	14,000	16,000	14,000	16,000	15,000	14,000	16,000
Chromium	**100**	BDL	3	2	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	6	1	BDL	BDL	BDL	BDL	BDL	3	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (Total)		1,600	1,800	1,700	6,500	7,100	6,800	7,300	BDL	1,300	740	BDL	BDL	BDL	BDL	1,200	270	8,300	500	BDL	BDL	BDL
Dissolved Iron		1,600	810	1,500	5,600	6,800	6,900	6,900	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70	BDL	BDL	BDL	BDL
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		12,000	23,000	13,000	6,600	13,000	11,000	12,000	6,400	4,400	3,800	4,100	3,900	3,200	3,800	3,800	4,600	3,700	4,500	4,100	3,800	3,800
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	13	8	3	4	4	4	3	13	7	4	4	3	4	BDL	2	18	2	BDL	BDL	BDL
Potassium		6,600	10,000	8,100	4,800	7,400	7,000	7,900	2,700	2,800	2,100	2,100	2,000	1,800	1,900	2,000	2,400	1,900	2,100	1,900	1,900	1,900
Selenium		BDL	BDL	BDL	BDL	4	BDL	3	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		82,000	140,000	110,000	78,000	110,000	110,000	98,000	9,800	9,000	8,000	9,000	9,000	7,000	8,000	7,800	10,000	9,000	10,000	9,000	8,000	8,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		8	6	BDL	BDL	BDL	BDL	BDL	6	7	8	BDL	BDL	BDL	BDL	6	BDL	9	8	BDL	BDL	BDL
Cobalt		BDL	5	6	BDL	BDL	BDL	BDL	BDL	6	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	2,100	3,100	3,000	340	400	380	470	6	110	34	BDL	BDL	BDL	BDL	200	76	1,800	110	14	15	9
Dissolved Manganese		2,300	3,400	2,800	360	390	400	430	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36	BDL	BDL	BDL	BDL
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	1,000	NA	NA	NA	NA	NA	NA	15,000	NA	NA	NA	NA	NA	NA	17,000	NA	NA	NA	NA	NA
Chloride		NA	140,000	NA	NA	NA	NA	NA	NA	7,000	NA	NA	NA	NA	NA	NA	7,000	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	390,000	NA	NA	NA	NA	NA	NA	49,000	NA	NA	NA	NA	NA	NA	51,000	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		15.00	11.05	15.19	12.14	12.36	12.09	11.89	12.30	9.13	12.45	11.29	11.61	11.13	11.41	12.45	8.67	11.90	12.58	12.49	12.23	12.09
pH		6.81	6.69	6.55	6.97	6.79	6.78	6.91	6.36	6.97	5.93	6.59	6.40	6.31	6.33	6.61	6.47	6.12	6.49	6.47	6.44	6.48
Conductivity in us/cm		401	1,137	726	489	757	390	681	122	168	147	162	155	85	119	127	171	159	172	171	96	133
Dissolved Oxygen in mg/l		0.81	0.41	0.24	0.30	0.17	0.17	0.28	4.63	3.72	4.75	4.56	4.35	4.50	4.77	9.63	3.99	3.68	2.72	2.09	2.14	2.26
Turbidity in NTU		2.10	165	56.7	29.2	1.7	1.51	3.32	37.2	8.60	25.0	0.23	0.10	0.19	1.14	70.6	3.11	111	1.75	0.65	0.92	1.52
Oxidation/Reduction Potential in mV		-39	45	0	-51	-111	-105.5	-88.7	94	169	151	218	145	250.6	108.0	105	105	169	201	128	203.9	-131.1

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	FPC-8A	FPC-8A	FPC-8A	FPC-8A	FPC-8A	FPC-8A	FPC-8A	**FPC-8B**	**FPC-8B**	**FPC-8B**	**FPC-8B**	**FPC-8B**	**FPC-8B**	**FPC-8B**	FPC-9A	FPC-9A	FPC-9A	FPC-9A	FPC-9A	FPC-9A	FPC-9A
DATE SAMPLED	CLEANUP	28-Aug-06	8-Nov-07	11-Aug-08	20-Aug-09	18-Aug-10	17-Aug-11	31-Aug-12	28-Aug-06	8-Nov-07	11-Aug-08	19-Aug-09	19-Aug-10	17-Aug-11	31-Aug-12	30-Aug-06	12-Nov-07	13-Aug-08	17-Aug-09	16-Aug-10	15-Aug-11	31-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Benzene	**5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Chloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Diethyl Ether		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
1,4-Dioxane			NA	NA	NA	BDL	BDL	0.51		NA	NA	NA	1	BDL	0.93		NA	NA	NA	NA	NA	NA
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
METALS IN ug/l																						
Aluminum		380	670	BDL	2,600	2,500	1,000	1,100	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,000	BDL	BDL	170	160	BDL
Arsenic	**10**	BDL	4	2	6	7	8	6	5	7	7	7	7	8	7	44	37	26	34	36	42	41
Barium		4	8	4	15	17	10	10	6	7	7	8	8	7	6	120	92	65	88	75	98	85
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		26,000	21,000	24,000	21,000	20,000	18,000	25,000	30,000	20,000	21,000	23,000	22,000	21,000	23,000	66,000	47,000	54,000	51,000	42,000	49,000	56,000
Chromium	**100**	BDL	BDL	BDL	6	6	3	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL
Copper		BDL	2	BDL	4	4	2	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL
Iron (Total)		900	1,300	340	3,600	4,100	2,600	2,400	130	60	140	60	90	90	BDL	9,600	8,600	4,700	6,300	5,600	7,100	6,600
Dissolved Iron		NA	NA	NA	NA	NA	NA	NA	NA	BDL	60	BDL	BDL	BDL	BDL	NA	7,000	4,500	6,300	4,800	6,300	5,900
Lead	**15**	BDL	BDL	BDL	1	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL
Magnesium		3,500	3,300	3,200	4,300	3,700	3,100	3,800	6,900	4,300	4,300	5,000	4,800	4,500	4,300	37,000	23,000	22,000	25,000	20,000	24,000	26,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	2	BDL	4	5	3	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	7	4	3	3	3	3
Potassium		2,400	2,000	2,100	2,500	2,300	2,000	2,200	3,600	2,600	3,000	2,700	2,900	2,700	2,600	14,000	8,600	8,100	9,200	7,800	8,900	8,900
Selenium		BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	2	BDL	2	2	BDL	2
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		11,000	12,000	13,000	13,000	12,000	12,000	13,000	18,000	16,000	17,000	18,000	17,000	17,000	16,000	94,000	100,000	78,000	89,000	76,000	73,000	77,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		6	BDL	BDL	10	12	6	6	6	BDL	12	BDL	BDL	BDL	BDL	6	58	27	5	27	11	24
Cobalt		BDL	BDL	BDL	2	2	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	150	150	62	190	210	260	270	21	29	28	25	32	32	29	270	410	520	270	220	260	310
Dissolved Manganese		NA	NA	NA	NA	NA	NA	NA	NA	33	25	25	28	29	30	NA	450	510	270	210	260	290
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	1	BDL	7	6	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		12.30	8.89	10.51	10.60	10.78	11.30	10.46	12.03	8.63	10.74	11.27	12.07	11.11	12.74	10.50	8.40	11.15	13.91	10.23	11.15	10.47
pH		6.36	6.80	6.66	6.95	6.69	6.35	6.76	7.26	7.81	8.02	8.17	7.23	7.74	8.18	7.00	7.01	6.82	7.58	6.48	7.17	7.19
Conductivity in us/cm		162	211	200	223	220	177	243	176	236	216	253	241	210	224	941	941	880	1	893	898	760
Dissolved Oxygen in mg/l		2.01	0.85	0.37	1.31	0.78	0.95	0.57	5.47	0.87	0.12	0.22	0.87	0.36	0.33	1.36	0.42	0.35	0.19	0.47	0.28	0.18
Turbidity in NTU		1.56	28.4	9.90	1.31	107	36.3	43.1	0.40	2.20	70.6	6.61	2.63	2.45	0.56	15.6	40.1	95.0	1.60	7.50	8.51	5.48
Oxidation/Reduction Potential in mV		96	-42	101	21	-16	21.7	5.8	-61	1	-163	-150	9	-160.8	-121.5	-113	26	-5	-96	-42	-134.1	-194.0

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	FPC-11A	FPC-11A	FPC-11A	FPC-11A	FPC-11A	FPC-11A	FPC-11A	FPC-11B	FPC-11B	FPC-11B	FPC-11B	FPC-11B	FPC-11B	FPC-11B	GZ-105	GZ-105	GZ-105	GZ-105	GZ-105	GZ-105	GZ-105
DATE SAMPLED	CLEANUP	30-Aug-06	15-Nov-07	12-Aug-08	17-Aug-09	16-Aug-10	15-Aug-11	31-Aug-12	30-Aug-06	15-Nov-07	12-Aug-08	17-Aug-09	16-Aug-10	15-Aug-11	31-Aug-12	29-Aug-06	14-Nov-07	11-Aug-08	19-Aug-09	18-Aug-10	17-Aug-11	31-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	6	6	6	6	7	6	6
Chlorobenzene	**100**	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	9	10	10	11	11	11	9
Chloroethane		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	7	9	11	12	9	11	9
Chloromethane		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	2	4	4	5	5	5	4
1,1 Dichloroethane		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	2	2	2	3	3	2
p - Isopropyltoluene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	49	61	57	62	57	54	47
Tetrahydrofuran		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	83	80	70	80	70	70	50
Toluene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	1	1	1	BDL	BDL	BDL
1,4-Dioxane			NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	80	98
Methylethylketone (MEK)	**200**	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																						
Aluminum		270	640	120	BDL	100	170	8	13,000	350	BDL	90	50	6,100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	**10**	BDL	1	1	BDL	9	8	7	6	9	8	10	10	4	3	6	11	10	13	15	16	15
Barium		4	17	15	10	36	34	21	72	18	34	48	52	32	37	43	52	48	61	60	59	55
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		7,400	28,000	25,000	17,000	60,000	49,000	62,000	64,000	54,000	75,000	56,000	58,000	4,800	48,000	65,000	44,000	49,000	69,000	73,000	73,000	78,000
Chromium	**100**	BDL	2	BDL	BDL	BDL	BDL	BDL	16	BDL	2	BDL	BDL	16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	3	BDL	BDL	BDL	1	BDL	4	2	BDL	BDL	BDL	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (Total)		1,000	2,100	390	100	910	1,000	3,200	13,000	1,900	3,200	1,900	1,400	11,000	890	6,200	5,100	3,700	4,900	4,800	4,800	4,900
Dissolved Iron		BDL	BDL	BDL	BDL	750	630	3,000	2,100	240	2,800	1,900	1,200	BDL	800	5,300	3,800	3,700	4,700	4,500	4,600	4,600
Lead	**15**	BDL	2	BDL	BDL	BDL	BDL	BDL	6	1	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		1,700	6,100	5,200	3,800	19,000	17,000	18,000	27,000	12,000	16,000	19,000	20,000	5,700	16,000	23,000	18,000	18,000	27,000	24,000	23,000	23,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	9	4	3	BDL	1	BDL	17	13	12	3	BDL	30	2	7	8	9	9	9	8	8
Potassium		28,000	3,800	3,000	2,400	5,300	5,200	5,400	6,500	3,600	5,300	5,800	5,800	2,000	5,400	7,500	5,700	6,200	7,100	6,500	6,200	6,000
Selenium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1	BDL	BDL	BDL	BDL	BDL	1	11	BDL	7
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		28,000	20,000	39,000	37,000	100,000	95,000	110,000	95,000	41,000	38,000	88,000	93,000	9,000	110,000	153,000	160,000	160,000	150,000	160,000	140,000	140,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		6	26	BDL	6	BDL	13	BDL	19	31	13	8	BDL	35	BDL	4	BDL	BDL	BDL	BDL	BDL	BDL
Cobalt		8	2	BDL	BDL	BDL	BDL	BDL	21	6	4	1	BDL	23	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	22	500	36	10	400	350	440	880	1,300	1,400	710	520	210	580	480	390	400	500	460	470	520
Dissolved Manganese		BDL	600	BDL	BDL	400	350	430	770	1,500	1,300	780	490	62	530	510	470	400	500	450	460	510
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	3	1	BDL	BDL	2	BDL	7	1	BDL	BDL	BDL	12	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		12.10	12.70	12.89	13.80	16.82	12.54	12.78	11.70	12.46	13.72	13.15	12.63	15.39	12.78	11.03	10.15	10.60	10.96	10.29	10.08	10.23
pH		6.82	5.93	6.00	6.03	6.58	6.91	7.02	6.67	6.65	6.96	6.98	6.78	6.45	7.25	8.48	7.16	7.95	7.57	7.25	7.05	7.29
Conductivity in us/cm		164	348	394	312	978	945	864	398	761	712	935	1,032	29	965	431	1,145	512	1,360	1,294	1,293	1,182
Dissolved Oxygen in mg/l		8.87	4.84	6.07	5.98	2.15	0.27	0.19	6.55	0.79	0.31	0.43	0.44	9.54	0.12	1.65	0.28	0.17	0.21	0.08	0.12	0.10
Turbidity in NTU		352.8	21.3	94.1	124.0	2.24	4.32	5.08	2,906	17.0	21.5	2.28	2.07	14.8	2.64	46.1	18.9	16.4	3.88	0.41	0.82	1.22
Oxidation/Reduction Potential in mV		58	137	193	178	20	-39.5	-190.1	-36	110	9	-72	-38	132.1	-85.6	-190	29	-118	-119	-154	-153.4	-132.9

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	GZ-123	GZ-123	GZ-123	GZ-123	GZ-123	GZ-123	**GZ-125**	**GZ-125**	**GZ-125**	**GZ-125** [8]	**GZ-125** [8]	**GZ-125** [8]	AE-1A	AE-1A	AE-1A	AE-1A	AE-1A	AE-1A	AE-1A
DATE SAMPLED	CLEANUP	12-Nov-07	12-Aug-08	18-Aug-09	16-Aug-10	17-Aug-11	28-Aug-12	12-Nov-07	12-Aug-08	18-Aug-09	8-Feb-11	15-Aug-11	28-Aug-12	30-Aug-06	16-Nov-07	12-Aug-08	20-Aug-09	18-Aug-10	15-Aug-11	31-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																			
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Benzene	**5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Chloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane		NA	NA	NA	NA	BDL	BDL	NA	NA	NA	NA	BDL	BDL		NA	NA	NA	NA	BDL	BDL
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
METALS IN ug/l																				
Aluminum		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	63	970	180	BDL	BDL	BDL	100
Arsenic	**10**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	39	41	29	20	22	18
Barium		5	4	5	4	5	4	4	3	3	4	6	5	18	22	18	18	19	19	18
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		11,000	12,000	16,000	13,000	12,000	13,000	14,000	13,000	15,000	14,000	13,000	15,000	45,000	14,000	11,000	25,000	29,000	29,000	33,000
Chromium	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL
Copper		1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	3	3	BDL	9	3	BDL	BDL	BDL	BDL
Iron (Total)		3,900	1,800	2,300	4,500	6,000	5,700	350	790	1,400	5,400	14,000	44,000	340	3,100	140	100	260	270	490
Dissolved Iron		1,700	370	2,500	1,900	5,100	4,300	BDL	BDL	BDL	480	BDL	810	400	BDL	BDL	120	210	140	320
Lead	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	4	BDL	BDL	15	3	BDL	BDL	BDL	BDL
Magnesium		3,000	3,100	4,500	3,700	3,500	3,300	8,600	8,000	8,900	7,600	8,100	8,100	16,000	3,000	2,000	8,600	9,600	10,000	10,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	5	4	5	4	3	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL
Potassium		2,100	1,900	2,100	1,800	1,900	1,800	2,800	2,600	2,600	2,400	2,500	2,600	4,900	4,300	3,100	3,800	3,400	3,500	3,600
Selenium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		17,000	15,000	17,000	15,000	15,000	15,000	18,000	17,000	19,000	1,600	18,000	18,000	22,000	26,000	23,000	24,000	20,000	20,000	20,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		8	BDL	BDL	BDL	BDL	BDL	6	8	6	12	26	8	10	45	9	BDL	BDL	BDL	BDL
Cobalt		5	3	5	4	5	3	BDL	BDL	BDL	BDL	BDL	BDL	16	3	BDL	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	3,300	2,300	3,000	2,200	2,400	1,700	160	62	81	290	230	310	440	130	14	250	380	390	500
Dissolved Manganese		3,600	1,900	3,200	2,100	2,300	1,600	170	53	88	240	210	310	450	6	BDL	320	360	380	480
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																				
Temperature Degrees C		11.72	12.26	14.53	13.58	12.64	13.74	10.04	12.92	12.16	8.17	13.27	17.05	11.80	9.70	15.26	13.23	13.12	14.16	11.14
pH		5.57	5.63	6.13	5.31	5.44	6.02	5.75	5.93	5.81	6.23	6.05	7.17	8.77	8.78	8.82	8.76	7.15	7.95	7.49
Conductivity in us/cm		220	183	245	237	210	200	276	240	281	282	455	408	227	208	175	262	386	389	312
Dissolved Oxygen in mg/l		0.77	2.41	2.62	3.39	3.43	2.62	2.95	3.12	2.03	2.19	3.62	1.99	3.55	2.31	3.16	1.36	0.66	0.45	1.45
Turbidity in NTU		22.9	35.2	4.15	18.4	4.82	8.22	5.03	23.0	16.6	23.3	95.6	136	82.8	15.9	12.2	2.62	0.03	0.78	12.0
Oxidation/Reduction Potential in mV		129	162	121	125	61.3	76.0	165	186	172	45.4	221.8	183.0	-50	88	82	74	-22	-168	-177.7

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt
8. February 2011 and subsequent samples collected from GZ-125 at a different depth and using a discrete interval sampler

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	AE-1B	AE-1B	AE-1B	AE-1B	AE-1B	AE-2A	AE-2A	AE-2A	AE-2A	AE-2A	AE-2A	AE-2A	AE-2B	AE-2B	AE-2B	AE-2B	AE-2B	AE-2B	AE-2B
DATE SAMPLED	CLEANUP	12-Aug-08	20-Aug-09	16-Aug-10	16-Aug-11	30-Aug-12	30-Aug-06	8-Nov-07	11-Aug-08	18-Aug-09	17-Aug-10	16-Aug-11	30-Aug-12	29-Aug-06	8-Nov-07	11-Aug-08	18-Aug-09	17-Aug-10	16-Aug-11	30-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																			
Acetone		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	NA	NA	NA	NA	NA	BDL	2	BDL	BDL	1	1	BDL	3	5	5	2	2	1	2
Chlorobenzene	**100**	NA	NA	NA	NA	NA	BDL	5	2	2	3	3	BDL	3	5	5	3	3	2	BDL
Chloroethane		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	11	12	6	BDL	BDL	BDL
Chloromethane		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		NA	NA	NA	NA	NA	BDL	2	1	BDL	BDL	BDL	BDL	BDL	1	1	BDL	BDL	BDL	BDL
1,1 Dichloroethane		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p - Isopropyltoluene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		NA	NA	NA	NA	NA	BDL	19	7	6	7	6	BDL	46	65	63	39	29	20	22
Tetrahydrofuran		NA	NA	NA	NA	NA	BDL	20	BDL	10	BDL	BDL	BDL	69	60	70	50	30	30	30
Toluene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane		NA	NA	NA	BDL	BDL		NA	NA	NA	12	14	16		NA	NA	NA	110	80	82
Methylethylketone (MEK)	**200**	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																				
Aluminum		BDL	BDL	BDL	470	BDL	BDL	BDL	210	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70	BDL
Arsenic	**10**	3	4	6	6	7	240	280	230	240	240	250	240	24	20	19	26	16	28	20
Barium		150	58	37	60	35	26	41	30	28	32	34	28	200	190	170	160	120	120	110
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		22,000	25,000	23,000	25,000	28,000	21,000	29,000	23,000	24,000	28,000	27,000	28,000	72,000	57,000	49,000	52,000	45,000	39,000	52,000
Chromium	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL
Iron (Total)		620	1,100	2,500	2,600	2,300	12,000	19,000	16,000	14,000	16,000	17,000	16,000	22,000	18,000	16,000	13,000	6,800	8,800	10,000
Dissolved Iron		BDL	1,100	2,300	1,700	2,100	14,000	19,000	15,000	17,000	16,000	19,000	16,000	25,000	18,000	15,000	13,000	6,100	8,600	9,000
Lead	**15**	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		10,000	13,000	12,000	12,000	13,000	9,300	11,000	8,300	9,000	11,000	9,900	9,200	60,000	40,000	32,000	35,000	29,000	24,000	27,000
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	BDL	BDL	BDL	BDL	12	12	12	10	9	8	8	10	13	10	10	9	7	8
Potassium		10,000	9,300	6,100	6,100	5,700	16,000	21,000	17,000	16,000	17,000	16,000	15,000	16,000	13,000	13,000	13,000	12,000	11,000	12,000
Selenium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	2	BDL	BDL	1	2	9	BDL	5
Silver		BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		31,000	33,000	25,000	24,000	24,000	43,000	39,000	32,000	33,000	35	33,000	33,000	180,000	230,000	200,000	190,000	160,000	140,000	160,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		7	BDL	BDL	6	BDL	6	BDL	BDL	7	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL
Cobalt		BDL	BDL	BDL	BDL	BDL	8	13	11	10	11	11	10	BDL	4	2	BDL	2	1	2
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	300	730	530	560	590	510	770	610	650	700	740	820	2,400	2,100	1,700	1,700	1,300	1,200	1,500
Dissolved Manganese		BDL	750	500	500	540	510	830	560	710	660	830	790	2,300	2,200	1,500	1,700	1,200	1,200	1,300
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																				
Temperature Degrees C		13.56	13.02	12.33	10.96	11.14	12.40	10.36	11.14	11.39	11.59	10.83	11.38	12.20	9.88	10.98	12.74	13.73	11.99	14.12
pH		7.82	7.60	6.70	7.36	7.42	6.47	6.69	6.54	7.33	6.10	6.33	6.60	6.72	7.07	6.84	7.27	6.46	6.84	7.01
Conductivity in us/cm		387	472	440	464	462	321	743	514	614	663	562	636	1,269	1,610	1,366	1,530	1,325	1,026	1,292
Dissolved Oxygen in mg/l		6.19	0.98	0.80	3.02	1.93	3.93	0.35	0.14	0.22	0.30	0.46	0.16	1.45	1.01	0.67	0.31	0.95	0.28	2.87
Turbidity in NTU		163	3.13	0.66	6.60	2.31	0.20	0.77	74.4	2.28	1.28	1.26	1.23	3.10	0.60	27.2	2.38	1.03	2.44	2.90
Oxidation/Reduction Potential in mV		113	-81	-40	132.0	-132.2	-29	-102	-59	-69	-33	-88.4	-176.4	-127	-58	-102	-94	-53	-134.6	-146.2

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	AE-3A	AE-3A	AE-3A	AE-3A	AE-3A	AE-3A	AE-3A	**AE-3B**	**AE-3B**	**AE-3B**	**AE-3B**	**AE-3B**	**AE-3B**	**AE-3B**	AE-4A	AE-4A	AE-4A	AE-4A	AE-4A	AE-4A	AE-4A
DATE SAMPLED	CLEANUP	29-Aug-06	15-Nov-07	12-Aug-08	18-Aug-09	19-Aug-10	19-Aug-11	30-Aug-12	29-Aug-06	16-Nov-07	12-Aug-08	18-Aug-09	20-Aug-10	17-Aug-11	30-Aug-12	28-Aug-06	14-Nov-07	11-Aug-08	18-Aug-09	18-Aug-10	17-Aug-11	29-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL																					
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	BDL	2	2	2	2	1	1	BDL	BDL	BDL	1	1	2	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	**100**	6	9	8	7	6	6	6	BDL	BDL	BDL	5	5	7	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		13	12	13	11	9	8	7	6	5	BDL	9	8	9	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		BDL	2	1	1	1	1	BDL	BDL	BDL	BDL	BDL	1	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		BDL	18	19	15	14	12	10	BDL	13	12	14	14	13	12	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane			NA	NA	NA	23	19	24		NA	NA	NA	24	19	27			NA	NA	NA	BDL	BDL
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l																						
Aluminum		BDL	BDL	100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	240	70	470	100	60	BDL	110
Arsenic	**10**	100	130	150	120	120	110	110	91	82	95	91	79	83	88	BDL	3	10	3	2	1	1
Barium		65	86	85	76	69	71	66	180	130	150	160	130	150	130	11	15	20	13	12	12	12
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		45,000	38,000	42,000	45,000	40,000	40,000	48,000	57,000	45,000	48,000	45,000	41,000	42,000	49,000	6,900	4,900	6,100	6,300	6,000	6,800	6,900
Chromium	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper		BDL	BDL	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL
Iron (Total)		22,000	19,000	22,000	26,000	18,000	21,000	22,000	14,000	12,000	13,000	16,000	12,000	15,000	15,000	9,100	6,500	28,000	9,500	5,000	3,600	4,000
Dissolved Iron		19,000	19,000	20,000	24,000	17,000	20,000	20,000	17,000	16,000	12,000	15,000	12,000	14,000	13,000	3,700	160	2,900	3,500	1,500	970	1,600
Lead	**15**	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		24,000	20,000	21,000	25,000	19,000	19,000	1,200	32,000	22,000	25,000	26,000	21,000	19,000	21,000	6,100	4,300	5,200	5,800	4,900	5,500	5,400
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	**100**	8	8	9	8	7	6	7	6	8	9	7	6	5	6	BDL	7	2	BDL	BDL	BDL	BDL
Potassium		24,000	22,000	22,000	26,000	20,000	19,000	20,000	25,000	20,000	21,000	23,000	19,000	18,000	19,000	2,300	2,300	2,400	2,300	2,300	2,700	2,400
Selenium		BDL	BDL	BDL	BDL	4	BDL	2	BDL	BDL	BDL	BDL	5	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		87,000	100,000	86,000	73,000	73,000	66,000	63,000	110,000	110,000	120,000	92,000	82,000	64,000	74,000	6,700	7,000	7,000	8,000	7,000	8,000	8,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		3	BDL	7	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	BDL	6	BDL	BDL
Cobalt		BDL	3	3	4	3	3	3	BDL	1	1	1	BDL	BDL	BDL	BDL	3	1	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	85	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	690	840	850	1,300	760	900	1,200	1,000	570	480	1,400	950	1,400	1,500	310	290	400	320	290	470	420
Dissolved Manganese		660	890	800	1,300	740	910	1,100	1,000	760	430	1,400	940	1,300	1,400	300	330	330	350	290	320	380
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	BDL	1	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																						
Temperature Degrees C		14.80	11.92	14.39	15.32	13.63	14.26	14.39	12.30	9.84	11.36	12.89	12.94	12.24	12.14	12.27	11.10	13.70	15.22	15.21	14.84	14.67
pH		6.77	7.25	6.64	6.52	6.76	5.30	6.76	7.23	7.20	7.15	7.40	6.88	6.65	6.84	6.41	6.89	6.56	6.81	6.50	6.32	6.68
Conductivity in us/cm		926	1,124	1,076	970	1,016	601	1,009	969	1,208	1,126	1,156	1,057	1,057	1,029	111	118	129	147	142	146	129
Dissolved Oxygen in mg/l		1.71	0.31	0.24	0.25	0.25	1.73	0.24	1.37	0.54	0.16	0.29	0.13	0.46	0.23	1.24	3.98	1.08	0.31	0.25	0.54	0.58
Turbidity in NTU		4.80	3.94	28.2	10.8	3.9	7.40	2.34	5.40	16.3	87.9	4.53	1.13	0.82	1.29	3.89	81.6	490	68.2	35.9	17.3	12.1
Oxidation/Reduction Potential in mV		-98	-109	-85	-95	-119	-83.9	-102.5	-149	90	-142	-96	-125	-112.9	-113.0	-83	78	-8	-18	-16	3.0	-25.1

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 3

SUMMARY OF OU-2 GROUNDWATER ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	INTERIM	AE-4B	AE-4B	AE-4B	AE-4B	AE-4B	AE-4B	AE-4B
DATE SAMPLED	CLEANUP	28-Aug-06	14-Nov-07	11-Aug-08	18-Aug-09	18-Aug-10	17-Aug-11	29-Aug-12
VOLATILE ORGANIC COMPOUNDS IN ug/l	LEVEL							
Acetone		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	**5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	**100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1 Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2 Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
p - Isopropyltoluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl Ether		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrahydrofuran		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5 Trimethylbenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p - Xylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dioxane			NA	NA	NA	NA	BDL	BDL
Methylethylketone (MEK)	**200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutylketone (MIBK)		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-butyl ether (MTBE)		BDL	BDL	BDL	BDL	BDL	BDL	BDL
METALS IN ug/l								
Aluminum		1,500	1,200	1,200	530	790	500	70
Arsenic	**10**	BDL	1	BDL	BDL	BDL	BDL	BDL
Barium		8	28	19	12	13	12	7
Cadmium		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		7,700	6,400	7,100	7,300	7,000	7,300	7,500
Chromium	**100**	BDL	3	2	BDL	1	BDL	BDL
Copper		BDL	5	4	2	2	2	BDL
Iron (Total)		1,500	1,900	2,100	720	1,200	800	80
Dissolved Iron		BDL	BDL	400	BDL	BDL	BDL	90
Lead	**15**	BDL	2	2	BDL	BDL	BDL	BDL
Magnesium		4,700	5,100	5,200	5,700	5,300	5,400	4,900
Mercury		BDL	0.3	0.1	BDL	BDL	BDL	BDL
Nickel	**100**	BDL	3	2	1	1	BDL	BDL
Potassium		5,000	4,200	4,600	4,200	3,800	4,100	3,600
Selenium		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		23,000	22,000	20,000	21,000	18,000	18,000	16,000
Thallium		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc		6	8	8	BDL	6	BDL	BDL
Cobalt		BDL	2	1	BDL	BDL	BDL	BDL
Beryllium	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese (Total)	**300**	220	1,100	600	260	190	220	13
Dissolved Manganese		90	84	250	42	23	100	9
Antimony	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	**260**	BDL	3	2	BDL	BDL	BDL	BDL
Sulfate		NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA
Alkalinity Bicarbonate		NA	NA	NA	NA	NA	NA	NA
Alkalinity Carbonate		NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS								
Temperature Degrees C		11.78	9.93	10.73	12.66	12.07	11.17	11.25
pH		6.74	7.30	6.79	7.00	6.72	6.56	6.83
Conductivity in us/cm		156	207	176	205	196	196	162
Dissolved Oxygen in mg/l		1.43	0.51	0.62	1.28	1.25	1.56	2.05
Turbidity in NTU		6.10	49.4	115	16.3	14.0	16.0	2.72
Oxidation/Reduction Potential in mV		-37	92	115	167	68	57.8	159.3

NOTES:
1. NA = Sample was not analyzed for indicated parameter
   BDL = Below Detection Limit
2. Bolded well denotes a bedrock groundwater monitoring well.
3. Blank column indicates the well was not sampled.
4. Potential ICLs are indicated for arsenic and maganese.
5. Shaded values denote exceedance of an established interim cleanup level.
6. Volatile organic compound and metals results are in micrograms per liter (ug/l).
7. Field Parameter Units: us/cm = microsiemens per centimeter, mg/l = milligram per liter, NTU = nephelometric turbidity unit, mV = millivolt

TABLE 4

SUMMARY OF RESIDENTIAL WELL MONITORING RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	R-3	R-3	R-3	R-3	R-3	R-3	R-5	R-5	R-5	R-5	346 BHR
DATE SAMPLED	24-Jan-08	13-Aug-08	19-Aug-09	17-Aug-10	18-Aug-11	30-Aug-12	24-Jan-08	13-Aug-08	19-Aug-09	19-Aug-10	30-Aug-12
VOCs											
Methyl tert-butyl ether (MTBE)	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	NA	NA	NA	NA	NA	0.40	NA	NA	NA	NA	<0.25
FIELD PARAMETERS											
Temperature Degrees C	13.51	12.51	11.38	12.58	12.62	12.73	14.22	14.00	16.51	18.50	13.20
pH	5.63	5.85	7.92	7.14	8.08	8.54	5.84	5.92	6.68	6.03	7.32
Conductivity in us/cm	316	423	452	443	238	466	243	281	456	222	606
Dissolved Oxygen in mg/l	4.16	3.72	4.64	2.19	4.65	4.98	6.43	8.04	6.75	5.45	6.35
Turbidity in NTU	2.0	15.4	2.2	0.5	1.04	0.70	1.4	12	2	0.17	17.6
Oxidation/Reduction Potential in mV	157	95	-122	-35	-164.5	22.5	162	87	194	146	75.8

NOTES:
1. BDL = Below Method Detection Limit
2. Only contaminants detected in one or more groundwater samples are listed in this table.
3. Volatile organic compound results are in micrograms per liter (ug/l).

TABLE 5

SUMMARY OF LEACHATE ANALYTICAL RESULTS
2012 ANNUAL MONITORING PLAN DATA ASSESSMENT REPORT
COAKLEY LANDFILL OU-1 AND OU-2
NORTH HAMPTON, NEW HAMPSHIRE

SAMPLE IDENTIFICATION	DES SURFACE WATER STANDARDS		L-1	L-1	L-1	L-1	L-1	L-1	L-1		L-1	L-1	L-1	L-1	L-1
DATE SAMPLED			16-Aug-01	7-Aug-02	27-Aug-03	25-Aug-04	25-Aug-05	30-Nov-06	13-Nov-07		12-Aug-08	19-Aug-09	17-Aug-10	19-Aug-11	30-Aug-12
COMMENTS	ACUTE	CHRONIC						ID 104240							
PARAMETER ANALYZED															
VOCs BY EPA METHOD 8260BC IN ug/L															
Benzene	5300	NSE	3	2	2	BDL	2	2	3		BDL	1.9	2	2.0	2
Chlorobenzene	250	50	27	15	18	12	20	18	22		BDL	20	24	18	15
Chloroethane	NSE	NSE	8	6	6	3	6	BDL	6		BDL	4.4	BDL	4.1	BDL
Chloroform	28.9	1240	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	1120	763	BDL	3	2	BDL	3	2	3		BDL	2.5	3	2.3	2
1,2 Dichlorobenzene									1		BDL	1.1	2	1.2	1
Isopropylbenzene	NSE	NSE	BDL	BDL	BDL	BDL	BDL	2	2		BDL	1.5	2	1.6	1
Diethyl Ether	NSE	NSE	31	BDL	BDL	BDL	BDL	BDL	23		BDL	13	15	12	10
Naphthalene									BDL		BDL	0.6	BDL	BDL	BDL
Tetrahydrofuran	NSE	NSE	32	BDL	BDL	BDL	BDL	BDL	20		BDL	12	10	13	BDL
Toluene													1	BDL	BDL
1,4-Dioxane			NA	NA	NA	NA	NA	NA	NA		NA	26	20	25	28
METALS BY EPA METHOD 6020 IN ug/L			Total	Total	Total	Total	Total		Total	Dissolved	Total	Total	Total	Total	Total
Aluminum	**750**	87	**3200**	**4100**	**9,500**	**29,000**	**18,000**		BDL	BDL	170	BDL	BDL	BDL	BDL
Arsenic	340	150	83	23	67	150	300		7	6	4	4	7	6	4
Barium	NSE	NSE	1300	260	610	2200	4600		97	99	11	100	100	97	87
Cadmium	0.95	0.80	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium	NSE	NSE	120,000	97,000	100,000	140,000	150,000		50,000	62,000	20,000	64,000	71,000	63,000	79,000
Chromium	183	24	20	13	27	55	70		BDL	BDL	1	BDL	BDL	BDL	BDL
Copper	**3.6**	2.7	BDL	**5**	**13**	**36**	**40**		BDL	1	**8**	BDL	BDL	1	BDL
Iron	NSE	1,000	350,000	130,000	330,000	1,000,000	1,100,000		30,000	27,000	1,200	35,000	34,000	31,000	31,000
Lead	14	0.54	BDL	2	8	**34**	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium	NSE	NSE	49,000	43,000	36,000	34,000	43,000		20,000	25,000	2,500	25,000	21,000	21,000	20,000
Mercury	1.4	0.77	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	144.9	16.1	22	18	28	32	40		7	8	3	7	6	4	6
Potassium	NSE	NSE	66	55	46,000	38,000	50,000		34,000	40	7,800	37,000	33,000	30,000	31,000
Selenium	NSE	5	7	8	4	3	BDL		BDL	BDL	BDL	BDL	2	2	5
Silver	0.32	NSE	BDL	BDL (2)	**2**	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium	NSE	NSE	220,000	200,000	160,000	140,000	150,000		130,000	150,000	BDL	100,000	110,000	91,000	100,000
Thallium	1,400	40	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	36.2	36.5	**45**	**51**	**140**	**390**	**690**		BDL	**650**	**56**	12	6	BDL	BDL
Cobalt	NSE	NSE	BDL	3	6	11	10		BDL	1	BDL	BDL	BDL	BDL	BDL
Beryllium	130	5.3	3	BDL	BDL	3	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese	NSE	NSE	7,600	5,700	5,900	10,000	9,800		2,700	3,200	98	3,200	2,900	2,700	3,300
Antimony	9,000	1,600	6	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium	NSE	NSE	46	13	36	89	220		1	1	2	2	1	BDL	BDL
Chemical Oxygen Demand by EPA Method 410.4 IN mg/l	NSE	NSE	190	178	560	282	377		70		50	50	54	40	44
Cyanide (Total)									BDL		NA	NA	NA	NA	NA
Ammonia by Epa Method 350.3 IN mg/l	36.1	3.08	**44.0**	**41.0**	**44.8**	**56.8**	**79.0**		33		0.62	21	22	25	24
FIELD PARAMETERS															
Temperature Degrees C									11.81		17.73	14.14	16.0	14.79	15.58
pH									6.19		6.57	6.37	6.56	5.13	6.61
Conductivity in us/cm									1,600		176	1,459	1,500	821	1,399
Dissolved Oxygen in mg/l									2.23		4.94	1.25	0.63	3.43	2.26
Turbidity in NTU									17.9		90	9.98	8.55	2.19	17.2
Oxidation/Reduction Potential in mV									138		42	-38	-99	-73.1	-76.0

NOTES:

1. BDL = Below Method Detection Limit
2. Only contaminants detected in one or more leachate samples are listed in this table.
3. Acute surface water standard shown for ammonia is for a surface water with a pH of 7.0.
4. (1) = Criteria for these metals are expressed as a function of the water effect ration (WER) as defined in 40 CFR 131.36 c, the values displayed in this table correspond to a WER of 1.0.
5. A bold entry indicates the parameter exceeded the acute surface water standard.
6. Shaded values indicate the parameter exceeded the chronic surface water standard.
7. Bold and shaded values indicate exceedances of both NHDES acute and chronic criteria.
7. NSE indicates no standard has been established for the indicated parameter.
8. Volatile organic compounds and metals results are in micrograms per liter (µg/l).

SECTION 1

TABLE 2-1
COAKLEY LANDFILL SUPERFUND SITE
GROUNDWATER QUALITY MONITORING NETWORK, WELL CONSTRUCTION DETAILS AND MONITORING FREQUENCY

Site ID	Date Constructed	Total Boring Depth (ft bgs)	Well Diameter (in)	Monitored Zone	Screened Interval (ftbgs)	Measuring Point Elevation (ft msl)	Monitoring Frequency	High Water Level (ft msl)	Low Water Level (ft msl)	Depth Tubing/ Pump Intake (ft bgs)
Operating Unit 1 Wells										
BP-4	5/17/1993	99.0	6.0	Bedrock	33.6-99.0	111.70	Annual	99.55	95.26	66.3
MW-10	4/15/1996	10.4	2.0	Overburden	5-10	80.60	Annual	75.22	72.78	7.5
MW-11	4/26/1996	52.0	2.0	Bedrock	32-52	92.70	Annual	87.21	79.17	42.0
MW-4	6/14/1985	38.0	2.0	Overburden	28-38	129.12	Annual	100.33	95.94	33.0
MW-5D	6/22/1993	163.5	2.0	Bedrock	139-159	98.39	Annual	90.39	85.84	149.0
MW-5S	8/9/1993	150.0	2.0	Overburden	48-78	98.42	Annual	84.27	88.70	63.0
MW-6	6/19/1985	184.0	6.0	Bedrock	25-184	101.15	Annual	93.84	88.03	104.5
MW-8	4/25/1996	65.0	2.0	Bedrock	44-65	85.30	Annual	81.10	75.32	54.0
MW-9	4/15/1996	12.0	2.0	Overburden	5-10	82.62	Annual	78.03	73.28	7.5
OP-2	5/7/1993	12.5	1.25	Overburden	7-12	98.49	Annual	95.86	85.74	9.5
OP-5	6/11/1993	23.2	1.25	Overburden	13-23	112.68	Annual	107.29	94.92	18.0
RMW-3	5/4/1993	35.0	2.0	Overburden	29-34	117.61	Annual	99.81	87.25	31.5
Operating Unit 2 Wells										
AE-1A	3/26/1999	65.0	2.0	Overburden	54-64	127.00	Annual	99.67	95.55	59.0
AE-1B	3/25/1999	85.5	2.0	Bedrock	75-85	126.80	Annual	99.65	95.51	79.0
AE-2A	7/27/1999	23.1	2.0	Overburden	10-20	79.60	Annual	76.03	72.49	15.0
AE-2B	7/27/1999	50.0	2.0	Bedrock	40-50	79.50	Annual	76.04	72.59	45.0
AE-3A	3/24/1999		2.0	Overburden	28-40	86.10	Annual	78.02	76.30	
AE-3B	3/23/1999	40.0	2.0	Bedrock	28-40	87.30	Annual	78.66	76.86	34.0
AE-4A	9/15/2003	15.0	2.0	Overburden	5-15	77.20	Annual	73.75	70.75	10.0
AE-4B	9/16/2003	44.0	2.0	Bedrock	34-44	77.50	Annual	73.42	70.51	39.0
FPC-2A	4/3/1992	16.0	2.0	Overburden	6-16	78.40	Annual	78.40	75.66	11.0
FPC-2B	4/3/1992	37.8	2.0	Bedrock	22.5-37.5	77.98	Annual	77.78	76.37	30.0
FPC-4B	6/3/1992	33.5	2.0	Bedrock	18-33	75.83	Annual	71.83	68.21	25.5
FPC-5A	3/17/1992	70.0	2.0	Overburden	54-64	74.30	Annual	75.01	72.18	59.0
FPC-5B	5/14/1992	110.3	2.0	Bedrock	95-110	74.90	Annual	74.85	70.96	102.5
FPC-6A	5/19/1992	2.8	2.0*	Overburden	1.75-2.75	77.00	Annual	73.23	70.71	2.3
FPC-6B	3/24/1992	28.5	2.0	Bedrock	13-28	77.10	Annual	73.21	68.37	20.5
FPC-7A	5/11/1992	22.0	2.0	Overburden	16.7-21.7	82.08	Annual	81.63	80.03	19.2
FPC-7B	5/8/1992	45.0	2.0	Bedrock	29.8-44.8	82.33	Annual	81.02	79.69	37.3
FPC-8A	4/9/1992	33.0	2.0	Overburden	23-33	73.80	Annual	73.85	69.23	28.0
FPC-8B	4/8/1992	55.7	2.0	Bedrock	40-55	73.60	Annual	73.52	69.14	47.5
FPC-9A	5/28/1992	68.0	2.0	Overburden	58-68	117.57	Annual	99.87	95.02	63.0
FPC-11A	6/23/1992	52.0	2.0	Overburden	47-52	117.95	Annual	Unavailable	Unavailable	49.5
FPC-11B	6/19/1992	73.0	2.0	Bedrock	58-73	Unavailable	Annual	Unavailable	Unavailable	65.5
GZ-105	5/7/1987	51.0	1.5	Bedrock	35-50	73.60	Annual	71.16	66.42	42.5
GZ-123	2/25/1987	16..5	2.0	Overburden	9.5-16.5	87.49	Annual	Unavailable	Unavailable	13.0
GZ-125	4/13/1987	200.0	6.0	Bedrock	57-200	88.77	Annual	Unavailable	Unavailable	128.5

Notes:
1. Water level highs and lows based on data taken between April 1993 and August 2006 and reported in the 2006 Annual Monitoring Report on Operable Units 1 and 2 prepared by Aries Engineering, June 2007. Water levels were not taken in every well at every event.
2. * = value is assumed.

TABLE 2-2
COAKLEY LANDFILL SUPERFUND SITE
OU-1 GROUNDWATER MONITORING NETWORK,
ANALYTICAL PARAMETERS, AND SAMPLING FREQUENCY

	Groundwater												Residential Wells	
Sampling Point	MW-4	MW-5S	MW-5D	MW-6	MW-8	MW-9	MW-10	MW-11	RMW-3	BP-4	OP-2	OP-5	R-3	R-5
Field Parameters														
Static Water Level	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Turbidity	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Specific Conductance	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Temperature	A	A	A	A	A	A	A	A	A	A	A	A	A	A
pH	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dissolved Oxygen	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dissolved Metals														
Dissolved Iron	A	A	N/A	A	N/A	A	N/A	N/A	N/A	N/A	A	A	N/A	N/A
Dissolved Manganese	A	A	N/A	A	N/A	A	N/A	N/A	N/A	N/A	A	A	N/A	N/A
TAL Metals (Total)														
Aluminum	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Arsenic	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Barium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Cadmium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Calcium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Chromium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Copper	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Iron	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Lead	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Magnesium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Nickel	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Potassium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Selenium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Silver	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Sodium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Thallium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Zinc	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Cobalt	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Beryllium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Manganese	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Antimony	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Vanadium	A	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A
Volatile Organic Compounds														
NHDES Full List	N/A	A	A	A	A	N/A	N/A	A	N/A	N/A	N/A	N/A	A	A
1,4 Dioxane, EDP and DBCP	Note 3	Note 3	Note 3	N/A	Note 3	Note 3	N/A	Note 3	N/A	Note 3	Note 3	Note 3	N/A	N/A

Notes:
1. A = Annual
2. N/A = Not Analyzed
3. Samples collected from these wells during the 2010 annual monitoring event shall be analyzed for 1,4 Dioxane, ethylene dibromide (EDB) and dibromochloropropane (DBCP). The Group, USEPA and NHDES shall determine whether analysis of 1,4 Dioxane, EDP and DBCP is required after 2010.

TABLE 2-3
COAKLEY LANDFILL SUPERFUND SITE
OU-2 GROUNDWATER MONITORING NETWORK,
ANALYTICAL PARAMETERS, AND SAMPLING FREQUENCY

Sampling Point	FPC-2A	FPC-2B	FPC-4B	FPC-5A	FPC-5B	FPC-6A	FPC-6B	FPC-7A	FPC-7B	FPC-8A	FPC-8B	FPC-9A	FPC-11A	FPC-11B	GZ-105	GZ-123	GZ-125	AE-1A	AE-1B	AE-2A	AE-2B	AE-3A	AE-3B	AE-4A	AE-4B
Field Parameters																									
Static Water Level	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Turbidity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Specific Conductance	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Temperature	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
pH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dissolved Oxygen	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dissolved Metals																									
Dissolved Iron	A	A	A	N/A	N/A	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dissolved Manganese	A	A	A	N/A	N/A	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TAL Metals (Total)																									
Aluminum	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Arsenic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Barium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Beryllium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Cadmium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Chromium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Copper	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Iron	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Lead	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Magnesium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nickel	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Selenium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Silver	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Thallium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Zinc	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Cobalt	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Manganese	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Antimony	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vanadium	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Volatile Organic Compounds																									
NHDES Full List	A	A	A	N/A	N/A	A	A	N/A	N/A	A	A	N/A	N/A	N/A	A	A	A	N/A	N/A	A	A	A	A	A	A
1,4 Dioxane, EDP and DBCP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Note 3	Note 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Note 3	Note 3	Note 3	Note 3	N/A	N/A

Notes:
1. A = Annual
2. N/A = Not Analyzed
3. Samples collected from these wells during the 2010 annual monitoring event shall be analyzed for 1,4 Dioxane, ethylene dibromide (EDB) and dibromochloropropane (DBCP). The Group, USEPA and NHDES shall determine whether analysis of 1,4 Dioxane, EDP and DBCP is required after 2010.

TABLE 2-4
COAKLEY LANDFILL SUPERFUND SITE
GROUNDWATER ELEVATION MONITORING NETWORK AND SCHEDULE

Site ID	Monitored Zone	Screened Interval (ftbgs)	Monitoring Frequency
Operating Unit 1 Wells			
BP-4	Bedrock	33.6-99.0	Annual
MW-10	Overburden	5-10	Annual
MW-11	Bedrock	32-52	Annual
MW-2	Overburden	10-20	Annual
MW-4	Overburden	28-38	Annual
MW-5D	Bedrock	139-159	Annual
MW-5S	Overburden	48-78	Annual
MW-6	Bedrock	25-184	Annual
MW-8	Bedrock	44-65	Annual
MW-9	Overburden	5-10	Annual
OP-2	Overburden	7-12	Annual
OP-5	Overburden	13-23	Annual
RMW-3	Overburden	29-34	Annual
Operating Unit 2 Wells			
AE-1A	Overburden	54-64	Annual
AE-1B	Bedrock	75-85	Annual
AE-2A	Overburden	10-20	Annual
AE-2B	Bedrock	40-50	Annual
AE-3A	Overburden	28-40	Annual
AE-3B	Bedrock	28-40	Annual
AE-4A	Overburden	5-15	Annual
AE-4B	Bedrock	34-44	Annual
FPC-2A	Overburden	6-16	Annual
FPC-2B	Bedrock	22.5-37.5	Annual
FPC-4B	Bedrock	18-33	Annual
FPC-5A	Overburden	54-64	Annual
FPC-5B	Bedrock	95-110	Annual
FPC-6A	Overburden	1.75-2.75	Annual
FPC-6B	Bedrock	13-28	Annual
FPC-7A	Overburden	16.7-21.7	Annual
FPC-7B	Bedrock	29.8-44.8	Annual
FPC-8A	Overburden	23-33	Annual
FPC-8B	Bedrock	40-55	Annual
FPC-9A	Overburden	58-68	Annual
FPC-9B	Bedrock	72-87	Annual
FPC-9C	Overburden	15-25	Annual
FPC-11A	Overburden	47-52	Annual
FPC-11B	Bedrock	58-73	Annual
GZ-105	Bedrock	35-50	Annual
GZ-109	Bedrock	103-252	Annual
GZ-123	Overburden	9.5-16.5	Annual
GZ-125	Bedrock	57-200	Annual

TABLE 2-5
COAKLEY LANDFILL SUPERFUND SITE
SURFACE WATER, SEDIMENT, AND LEACHATE MONITORING NETWORK, ANALYTICAL PARAMETERS, AND SAMPLING FREQUENCY

	Surface Water			Sediment		Leachate
Sampling Point	SW-4	SW-5	SW-103	SED-4	SED-5	L-1
Field Parameters						
Turbidity	A	A	A	N/A	N/A	A
Specific Conductance	A	A	A	N/A	N/A	A
Temperature	A	A	A	N/A	N/A	A
pH	A	A	A	N/A	N/A	A
Dissolved Oxygen	A	A	A	N/A	N/A	A
Inorganic Paramters						
Chemical Oxygen Demand	N/A	N/A	N/A	N/A	N/A	A
Ammonia	A	A	A	N/A	N/A	A
TAL Metals (Total)						
Aluminum	A	A	A	5-YR	5-YR	A
Arsenic	A	A	A	5-YR	5-YR	A
Barium	A	A	A	5-YR	5-YR	A
Cadmium	A	A	A	5-YR	5-YR	A
Calcium	A	A	A	5-YR	5-YR	A
Chromium	A	A	A	5-YR	5-YR	A
Copper	A	A	A	5-YR	5-YR	A
Iron	A	A	A	5-YR	5-YR	A
Lead	A	A	A	5-YR	5-YR	A
Magnesium	A	A	A	5-YR	5-YR	A
Mercury	A	A	A	5-YR	5-YR	A
Nickel	A	A	A	5-YR	5-YR	A
Potassium	A	A	A	5-YR	5-YR	A
Selenium	A	A	A	5-YR	5-YR	A
Silver	A	A	A	5-YR	5-YR	A
Sodium	A	A	A	5-YR	5-YR	A
Thallium	A	A	A	5-YR	5-YR	A
Zinc	A	A	A	5-YR	5-YR	A
Cobalt	A	A	A	5-YR	5-YR	A
Beryllium	A	A	A	5-YR	5-YR	A
Manganese	A	A	A	5-YR	5-YR	A
Antimony	A	A	A	5-YR	5-YR	A
Vanadium	A	A	A	5-YR	5-YR	A
Volatile Organic Compounds (4)	A	A	A	N/A	N/A	A

Notes:
1. A = Annual
2. N/A = Not Analyzed
3. 5-YR - Sample once every 5 years beginning in 2014.
4. The Volatile Organic Compounds alalyte list for surface water and leachate shall be the NHDES Waste Management Division Full List of Analytes for Volatile Organics (NHDES Full List). Leachate sample (L-1) shall be analyzed for 1,4 Dioxane, ethylene dibromide (EDB) and dibromochloropropane (DBCP) during the 2010 sampling event. Surface water samples shall not be analyzed for 1,4 Dioxane, EDB or DBCP. The Group, USEPA and NHDES shall determine whether analysis of 1,4 Dioxane, EDB or DBCP is required after 2010.

Kevin McKibben

From: Peter L. Britz [plbritz@cityofportsmouth.com]
Sent: Friday, August 24, 2012 12:26 PM
To: Kevin McKibben
Subject: FW: Sample Planning

From: Gerardo Millan-Ramos [mailto:Millan-Ramos.Gerardo@epamail.epa.gov]
Sent: Friday, August 24, 2012 11:17 AM
To: Peter L. Britz
Cc: ahoffman@des.state.nh.us
Subject: Re: Sample Planning

Peter,

I have discussed this with Andrew Hoffman. Both of us are OK with this approach, except that well FPC-7B should be added to the list of wells being sampled for 1,4 dioxane, as indicated in the NHDES April 20th letter. Please call if you have further questions, otherwise I shall see you on-site next Tuesday.

Thank you.

A pessimist sees the difficulty in every opportunity; an optimist sees the opportunity in every difficulty.
Winston Churchill

Gerardo Millán-Ramos
Remedial Project Manager
Office of Site Remediation and Restoration
U.S. EPA Region 1 - New England
tel. (617) 918-1377
fax (617) 918-0377

"Peter L. Britz" ---08/23/2012 03:25:40 PM---Hi Gerardo: Sorry for the delay in getting this back to you. It has been crazy around here. Below pl

From: "Peter L. Britz" <plbritz@cityofportsmouth.com>
To: Gerardo Millan-Ramos/R1/USEPA/US@EPA
Date: 08/23/2012 03:25 PM
Subject: Sample Planning

Hi Gerardo:
Sorry for the delay in getting this back to you. It has been crazy around here. Below please find what we discussed this morning. Please let me know if you have any questions or need more information.

This email is in reference to our phone conversation on August 23rd when I had called to clarify that the sampling was moving ahead for next week, the week of August 27th. I wanted to confirm with you that we would be making the sampling changes at the wells as requested by NHDES in their April 20th letter. Specifically to the 1,4 dioxane sampling which consist of discontinuance of sampling at FPC-2A, FPC-2B, GZ-123, AE-1A, AE-1B, and OP-5. We will not discontinue but will continue to sample for 1,4 dioxane at FPC-4B, AE-4A, AE-4B, FPC-6A, FPC-6B, FPC-7A.

As for residential wells we will again attempt to sample R-3 and R-5 for 1,4 dioxane and while in the field will look for

additional water supply wells at and in the vicinity of the Breakfast Hill Golf Club that could be sampled for 1,4 dioxane.

We expect that RMW-3 will still be obstructed and have not installed a new well. We will confirm it is obstructed and look to speak with you in the future about whether a new sample location needs to be developed or whether this well has sufficient redundancy to be dropped from the sampling program. As I said the Group has some concerns about drilling a new well through the cap and we are reluctant to consider this as a viable option.

Other than the changes described above the sampling will be the same process as the sampling which was done last year. Please let me know if you have any questions or changes to those described above.

Thanks

Peter

****

Peter Britz
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SECTION 2

Coakley Landfill
P2081

Measure by: KMM/CVP
Date: 8-27-12

Well ID	DTW	TD	Screened Interval	Diameter	Zone	Tubing Intake	Purge	
Operating Unit 1								
BP-4	15.22	101.56	33.6-99.0	6	Bedrock	49	Discrete	
MW-2	7.69	X	10-20	1	Overburden	X		
MW-4	32.22	39.22	28-38	2	Overburden	33		
MW-5S	12.94	93.02	48-78	2	~~Overburden~~ Bedrock	63	15 gal.	
MW-5D	11.47	161.37	139-159	2	Bedrock	149	10 gal.	
MW-6	11.49	171	25-184	6	Bedrock	150	Discrete	
MW-8	9.32	67.51	44-64	2	Bedrock	54	10 gal.	
MW-9	8.47	12.96	5-10	2	Overburden	7.5		
MW-10	6.38	12.17	5-10	2	Overburden	7.5		
MW-11	12.34	54.95	32-52	2	Bedrock	42	10 gal.	
OP-2	7.48	16.54	7-12	2	Overburden	9.5		
OP-5	15.82	25.78	13-23	1.5	Overburden	18		
RMW-3	obstructed	20.08	29-34	2	Overburden	31.5		
Operating Unit 2								
AE-1A	30.37	66.15	54-64	2	Overburden	59		
AE-1B	30.19	87.69	75-85	2	Bedrock	79		
AE-2A	6.08	22.55	10-20	2	Overburden	15		
AE-2B	5.49	52.60	40-50	2	Bedrock	45		
AE-3A	9.06	20.06	- 17.5	2	Overburden	(12.5)		
AE-3B	9.80	43.02	28-40	2	Bedrock	34	6 gal.	
AE-4A	6.40	16.05	5-15	2	Overburden	10		
AE-4B	6.92	46.10	34-44	2	Bedrock	39		
FPC-2A	2.99	18.81	6-16	2	Overburden	11		
FPC-2B	1.47	40.01	22.5-37.5	2	Bedrock	30	7.5 gal.	
FPC-4B	6.32	35.45	18-33	2	Bedrock	25.5	7.5 gal.	
FPC-5A	2.25	25.76	54-64	2	Overburden	59		
FPC-5B	1.95	113.56	95-110	2	Bedrock	102.5	7.5 gal.	
FPC-6A	8.43	9.97	1.75-2.75	2	Overburden	2.3		
FPC-6B	6.04	30.20	13-28	2	Bedrock	20.5	7.5 gal.	green box
FPC-7A	1.88	23.95	16.7-21.7	2	Overburden	19.2		
FPC-7B	2.38	46.90	29.8-44.8	2	Bedrock	37.3	7.5 gal.	
FPC-8A	2.49	33.87	23-33	2	Overburden	28		
FPC-8B	2.44	57.45	40-55	2	Bedrock	47.5	7.5 gal.	
FPC-9A	21.39	68.35	58-68	2	Overburden	63		
FPC-9B	21.66	X	72-87	2	Bedrock	X		
FPC-9C	20.97	X	15-25	2	Overburden	X		
FPC-11A	21.57	50.41	47-52	2	Overburden	49.5		
FPC-11B	21.53	70.70	58-73	2	Bedrock	65.5	7.5 gal.	
GZ-105	4.13	51.99	35-50	1.5	Bedrock	42.5	7.5 gal.	
GZ-123	10.48	17.58	11.5-16.5	2	Overburden	13		
GZ-125	8.70	192.36	57-200	6	Bedrock	72	Discrete	

FPC-11C 21.46 32.12

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-28-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: MW-4
Depth to Water: 32.22
Total Depth: 39.22
Purging Device: ~~Peristaltic Pump~~ Bailer

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
17:37	32.27			0							
17:46	32.31			1	17.03	772	6.45	-79.8	3.13	7.82	
17:55	32.31			2	16.43	789	6.50	-75.5	2.13	47	
18:07	32.31			3	16.04	795	6.50	-66.3	3.40	69.2	
18:15	32.33			4	15.99	789	6.52	-67.7	3.08	26.5	
18:25	32.31			5	15.70	840	6.49	-69.3	2.30	14.8	
18:33	32.31			6	16.15	7.94	6.90	-67.2	2.26	16.0	
18:42	32.33			7	15.84	790	6.51	-65.7	2.24	16.3	
18:52	32.31			8	15.75	784	6.90	-64.1	2.20	15.1	
18:55	Sampled										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-27-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: MW-55
Depth to Water: 12.94
Total Depth: 83.02
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
16:00	12.94		252	0							
16:10	14.35		276		13.90	864	6.93	-110.2	1.61	3.90	
16:20	15.11		260		13.34	854	6.91	-111.2	0.95	2.19	
16:35	13.93		280	2	13.02	870	6.99	-119.1	0.58	0.69	
16:40	13.95		260	3	12.88	822	7.01	-121.1	0.40	0.73	
17:05	16.17		280		12.94	821	7.01	-121.5	0.31	0.37	
17:20	16.36		260	5	12.65	828	7.01	-121.1	0.25	2.11	
17:35	16.51		248		12.70	827	7.01	-116.7	0.22	1.11	
17:40	16.67		252	7	12.49	823	7.02	-113.3	0.21	0.65	
18:04	16.92		240	8	12.28	825	7.02	-113.8	0.19	0.24	
18:20	16.90		248		12.21	823	7.02	-114.0	0.18	0.37	
18:35	16.96		236	10	12.04	822	7.02	-114.9	0.18	0.61	
18:40	16.98		236		11.95	829	7.02	-117.2	0.17	0.76	
19:05	17.01		232	12	11.99	828	7.02	-114.3	0.17	0.21	
19:20	17.03		236		11.90	825	7.02	-120.9	0.16	0.49	
19:35	17.04		248		11.98	824	7.02	-119.1	0.16	0.54	
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions
19:30	17.02		244	15	12.07	826	7.02	-114.4	0.16	0.70	
19:35	sample										

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 27 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: MW 5D
Depth to Water: 11.30
Total Depth: 161.32
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
16.02	11.30										
16.08	13.00		160 3/4								
16.12	13.08		160		12.71	1395	7.06	-196.6	0.61	10.01	
16.22	13.21		180		12.35	1394	7.15	-168.1	0.43	9.13	
16.37	13.02		220		12.54	1393	7.28	-163.2	0.26	7.13	
16.52	13.06		220	5gal	12.50	1393	7.32	-159.1	0.23	10.44	
17.07	13.11		220		12.34	1398	7.33	-155.0	0.19	8.69	
17.23	13.11				12.27	1398	7.36	-152.2	0.18	8.74	
17.39	13.17		200		12.21	1400	7.38	-149.0	0.17	7.92	
17.55	13.20			10gal	12.14	1431	7.29	-145.6	0.16	8.54	
											Sample Time 18.00
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 27 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: ~~67.51~~ MW8
Depth to Water: 9.32
Total Depth: 67.51
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
9:17	9.32		~~240~~ S/L								
9:27	~~##~~				13.67	~~1129~~ 1438	7.38	-188.8	0.77	2.85	
9.34	11.00		240 S/L		13.51	1433	7.44	-175.1	0.60	2.32	
9.50	10.51		680 S/L		15.98	1424	7.56	-172.9	0.35	5.06	
10.07	10.14		560		17.10	1448	7.58	-169.1	0.69	5.53	
10.25	10.21		400	4 gal	16.34	1440	7.56	-170.2	0.49	3.28	turned up flow rate
10.37	10.30		380		15.61	1442	7.53	-173.7	0.20	2.76	
10.47	10.39		400		15.33	1442	7.50	-172.7	0.24	4.22	incr. pump rate
10.57	10.50		360		15.32	1447	7.47	-171.6	0.27	5.82	
11.07	10.55		320		15.54	1455	7.50	-174.5	0.24	3.78	
11.17	10.49		400		16.23	1466	7.48	-172.7	0.25	5.00	
11.27	10.48		380		16.18	1473	7.45	-171.6	0.25	(8.58)	→ hard to read - may be 3.58?
11.37	10.51		360	7 gal	15.68	1491	7.37	-172.6	0.39	3.35	
11.47	10.57				15.40	1518	7.30	-172.9	0.33	2.85	
11.57	10.65				15.40	1551	7.17	-171.7	0.31	4.95	
12.07	10.75		240		15.26	1565	7.09	-170.4	0.27	2.15	
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

-5 50

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Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 27 Aug 2012
Sampled By: Cyrus Derras
Provan & Lorber, Inc.

Monitoring Point: MW8
Depth to Water:
Total Depth:
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
12.17	10.86		240		15.05	1590	6.97	-170.0	0.14	2.14	
12.27	10.98		240		15.40	1600	6.93	-171.3	0.20	2.75	
12.32					14.71	1601	6.86	-171.1	0.27	1.44	Sample time: 12:40

Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 28 Aug 2012
Sampled By: Cyrus Peron / KMM
Provan & Lorber, Inc.

Monitoring Point: MW 9
Depth to Water: 8.49
Total Depth: 12.96
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
14:27	8.49										
14:35	9.60		180 s/L		16.40	1107	6.28	-128.8	1.13	3.97	
14:46	10.19		340 s/L		16.67	1155	6.35	-132.4	3.44	2.35	
14:55	10.19		360 s/L		17.13	1146	6.38	-122.3	4.36	5.06	
15:05	10.18		360 s/L		17.18	1145	6.34	-127.7	3.52	3.72	
15:15	10.22		380 s/L	3 gal	16.71	1223	6.28	-147.7	1.34	3.25	
15:25	10.27				16.82	1205	6.28	-148.5	1.06	1.73	
15:30	10.30		372		16.85	1207	6.27	-147.5	0.98	2.05	
15:35	10.33				16.63	1213	6.27	-148.8	0.93	2.43	
15:40	10.35		400		16.48	1231	6.27	-155.4	0.86	2.16	
15:45	10.36				16.22	1222	6.27	-155.5	0.84	1.90	
15:50		Sample									
	Δ <0.3'				3%	3% ✓	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 28 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: MW 10
Depth to Water: 6.36
Total Depth: 12.17
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
11:33	6.36										
11:38	6.40		240 s/L		16.66	869	6.50	-119.9	0.97	5.81	
11:48	6.40		200 s/L		16.46	844	6.43	-139.1	0.45	3.12	
12:04	6.40		220		16.34	851	6.44	-144.7	0.28	6.43	
12:20	6.41				16.36	856	6.46	-148.9	0.26	4.97	
12:32	6.40			5gal	16.33	857	6.46	-150.1	0.18	1.92	
12.37	6.40		200		16.37	856	6.46	-154.1	0.16	1.41	
12.42	6.41				16.44	857	6.47	-160.1	0.32	1.33	
											Sample time 12.48

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

7

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 29 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: MW11
Depth to Water: 12.54
Total Depth: 54.85
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
14.12	12.54										
14.20	13.41		220 s/L		12.15	722	6.66	-157.1	0.71	2.46	
14.30	13.55		260 s/L		12.40	716	6.33	-166.4	0.44	9.88	
14.45	13.46				13.03	727	6.17	-161.2	0.56	11.4	Condensation inside turbidimeter
15.00	13.17		540 s/L		14.49	739	6.31	-171.6	0.32	10.76	
15.15	13.26		340		13.86	740	6.09	-169.2	0.23	1.62	
15.30	13.44		300		13.40	730	6.06	-171.5	0.19	1.16	
15.45	13.52		360	5 gal	13.31	726	5.93	-172.4	0.17	1.49	
16.00	13.60		280		13.12	723	5.89	-174.6	0.16	0.93	
16.15	13.67		300		13.09	717	5.93	-173.8	0.32	0.93	
16.30	13.70				12.49	717	6.22	-180.2	0.30	0.86	
16.45	13.71		280		12.63	716	6.49	-185.6	0.26	0.68	
1700	13.77				11.70	712	6.73	-191.5	0.20	1.61	condensation in t/meter
1710	13.77		280		11.60	712	6.84	-191.3	0.19	0.68	
1720	13.75			10 gal	11.53	712	6.90	-194.1	0.17	0.58	
1730	13.76				11.53	714	6.93	-194.7	0.16	0.66	
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Sample time 17.37

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 27 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: OP 2
Depth to Water: 7.49
Total Depth: 16.84
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
19.06	7.49										
19.10	7.91		160 ml		15.12	584	6.45	-123.8	3.31	2.50	
19.20	7.96		180		14.70	586	6.40	-138.4	1.95	2.63	
19.30	7.97		160		14.71	584	6.41	-142.7	0.50	4.76	
19.40	7.96		160		14.75	581	6.41	-143.5	0.49	1.23	
19.45	7.97				14.91	583	6.40	-143.9	0.38	2.00	
19.50	7.96		160	5 gal	14.96	581	6.40	-144.1	0.34	2.89	
											Sample time 19.55

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions
			.44	47.5					

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-29-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: OP-5
Depth to Water: 15.82
Total Depth: 25.78
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
16:31	15.87		160								
16:37	15.89		148		11.70	223	6.09	8.0	0.43	3.80	
16:45	15.89			1½	11.40	228	6.03	0.4	0.26	2.71	
16:50	15.89		132	2	11.40	227	6.02	0.5	0.23	1.48	
16:55	15.89				11.33	225	6.01	1.8	0.20	0.83	
17:00	15.89		132		11.46	223	6.00	2.9	0.18	0.71	
17:05	15.89			4	11.30	222	5.99	3.9	0.16	0.61	
17:10	Sample										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-31-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: AE-1A
Depth to Water: 30.43
Total Depth: 66.15
Purging Device: Bailer

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
13:12	30.43			0							
13:19				2	11.70	165	7.54	-155	3.32	6.44	
13:25	30.44			4	11.74	169	7.76	-162	3.10	3.17	
13:34	30.45			6	11.43	216	7.95	-168.0	2.58	9.80	
13:43				8	11.41	291	7.73	-170.8	1.94	12.86	
13:50	30.44			10	11.26	307	7.63	-173.9	1.47	11.1	
13:55				11	11.19	309	7.56	-174.7	1.51	11.9	
14:00	30.44			12	11.10	311	7.50	-177.3	1.46	11.7	
14:05				13	11.24	312	7.49	-177.7	1.45	12.0	
14:10	Sample										

Stabilization Definitions

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-30-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: AE-1B
Depth to Water: 30.19
Total Depth: 57.69
Purging Device: ~~Peristaltic Pump~~ Bailer

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
15:38	30.19			0							
16:05				2	12.51	452	7.87	-46.4	8.76	11.65	
16:13	30.99			4	12.27	453	7.52	-70.7	5.05	8.44	
16:23	31.29			6	11.71	464	7.42	-103.0	2.32	5.17	
16:31	31.06			8	11.22	464	7.39	-118.9	2.19	4.09	
16:41				10	11.12	461	7.40	-126.2	1.94	3.10	
16:49	31.26			12	11.11	462	7.40	-128.5	1.97	2.31	
16:54	30.79			13	11.05	463	7.41	-132.1	1.81	2.75	
17:00				14	11.07	460	7.42	-132.3	1.94	2.82	
17:06	30.59			15	11.14	462	7.42	-132.2	1.93	2.31	
17:10	Sample										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 30 Aug 2012
Sampled By: Cyrus Perran
Provan & Lorber, Inc.

Monitoring Point: AE2A
Depth to Water: 6.29
Total Depth: 22.24
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
14.08	6.29										
14.13	7.61		120s/L	~~11.64~~	11.64	584	6.65	-161.0	0.92	3.27	
14.20	7.60		120s/L		11.45	636	6.61	-175.4	0.38	1.99	
14.30	7.56		120		11.43	634	6.60	-178.4	0.19	1.90	
14.35	7.53				11.42	636	6.59	-177.7	0.17	1.32	
14.40	7.54				11.38	636	6.60	-176.4	0.16	1.23	
											Sample time 14.45

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 30 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: AE 2B
Depth to Water: 5.71
Total Depth: 52.51
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
12.53	5.71										
12.58	8.94		160 s/L		11.75	1375	6.88	-159.6	1.73	5.91	
13.03	12.19		180 s/L		11.64	1334	6.79	-176.0	1.67	5.04	
13.11	16.58		200 s/L		11.53	1307	6.83	-187.3	0.84	3.36	
13.20	20.57		240		11.74	1279	6.95	-183.9	0.60	1.88	
13.30	23.99		~1000		12.41	1280	6.99	-176.5	0.37	1.89	increased pump speed
13.40	25.65			4 gal	13.46	1296	7.01	-172.8	0.32	2.29	dry
13.48	26.30										shut off pump
18.06	24.55										resumed pumping
18.14	26.40				14.10	1292	7.01	-146.2	2.87	2.90	
											Sample time 18.20
Δ <0.3'					3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-30-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: AE-3A
Depth to Water: 9.19
Total Depth: 20.06
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
13:22	9.19		264	0							
13:30	10.63		260		14.76	1031	6.84	-109.0	0.43	5.95	
13:35	10.70		256		14.78	1029	6.84	-113.0	0.25	5.34	
13:40	10.71		256		14.77	1024	6.84	-114.7	0.24	5.08	
13:45	10.71				14.66	1022	6.83	-114.2	0.24	4.65	
13:50	10.72		260	2	14.52	1018	6.82	-112.4	0.24	3.35	
13:55	10.73				14.43	1016	6.80	-108.2	0.24	2.45	
14:00	10.73		260		14.42	1015	6.78	-109.9	0.24	2.33	
14:05	10.73			3	14.39	1009	6.76	-102.5	0.24	2.34	
14:10	sample										

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-30-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: NE-3B
Depth to Water: 9.96
Total Depth: 43.02
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
11:09	9.96			0							
11:15	11.36		280		12.74	1028	7.22	-139.6	2.08	31.8	
11:25	12.74		288		12.29	1028	7.15	-122.8	0.93	11.48	
11:35	13.22		280	3 1/4	12.15	1048	6.94	-118.0	0.66	3.60	
11:45	13.46		288		12.08	1036	6.87	-110.5	0.34	2.20	
11:55	13.16		296	3	12.31	1032	6.85	-113.3	0.41	1.75	
12:05	13.07				12.30	1030	6.95	-114.2	0.36	1.68	
12:15	13.03		288	4 1/2	12.29	1029	6.84	-114.7	0.32	1.08	
12:25	13.05		288		12.08	1030	6.84	-113.9	0.29	1.08	
12:35	13.09				12.27	1027	6.84	-113.4	0.25	1.19	
12:45	13.19			6	12.14	1029	6.84	-113.0	0.23	1.29	
12:50	sample										

Δ <0.3'		3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions	

Field Blank @ 11:30

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 5-29-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: AE-4A
Depth to Water: 6.40
Total Depth: 16.05
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
13:08	6.40		400	0							cloudy- orange
13:15	7.34		368		14.15	132	6.67	1.5	1.64	199	
13:25	7.57		332		14.19	130	6.64	-9.2	0.54	184	
13:35	7.66				14.26	129	6.66	-14.6	0.74	210	sl. cloudy
13:40	~~7.72~~		Drain sediment from flow cell								
13:45	7.72				14.17	127	6.68	-12.2	1.09	108	
13:55	7.79		340	3	14.44	129	6.67	-19.0	0.67	28.7	
14:00	7.81				14.47	129	6.67	-21.7	0.57	19.2	
14:05	7.85		340		14.60	129	6.67	-23.4	0.57	17.0	
14:10	7.85				14.61	129	6.67	-24.4	0.57	11.3	
14:15	7.90			4	14.67	129	6.68	-25.1	0.58	12.1	
14:20	Sample										

Stabilization Definitions

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5		

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-29-12
Sampled By: MM
Provan & Lorber, Inc.

Monitoring Point: AE-4B
Depth to Water: 6.92
Total Depth: 46.10
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
11:52	6.92		268	0							
11:57	9.43		272		12.17	171	6.67	171.9	0.84	5.07	
12:05	12.38		260		11.72	166	6.74	167.7	1.55	2.56	slow pump?
12:10	14.17		352		11.54	163	6.77	167.4	1.83	2.79	
12:15	15.61			2	11.60	163	6.80	166.9	2.13	2.53	
12:20	16.93		332		11.54	162	6.81	167.0	2.12	2.41	
12:25	18.31				11.26	163	6.81	166.6	2.11	2.48	
12:30	19.52		376	3	11.32	162	6.82	163.3	2.07	2.62	
12:35	20.90				11.30	163	6.83	163.3	2.04	2.77	
12:40	21.73		380		11.18	163	6.82	162.6	2.03	2.86	
12:45	22.90			4	11.25	162	6.83	159.3	2.05	2.72	
12:50	Sampled										

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 29 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: FPC 2A
Depth to Water: 2.99
Total Depth: 18.81
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
10.19	2.99										
10.26	4.63		160 s/L		12.53	294	7.10	-173.7	0.64	86.4	
10.35	4.66		160 s/L		12.62	292	6.95	-165.9	0.60	62.5	
10.45	4.65				12.57	292	6.89	-165.2	0.32	36.9	
10.56	3.51		160		12.53	291	6.87	-166.9	0.30	34.7	
11.05	3.51			5gal	12.48	291	6.85	-168.9	0.31	28.1	
11.10	3.55				12.45	291	6.85	-168.7	0.29	26.0	
11.15	3.53				12.48	291	6.85	-169.5	0.27	28.5	
											Sample time: 11.19

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 29 Aug 2017
Sampled By: Cyrus Perran
Provan & Lorber, Inc.

Monitoring Point: FPC 2B
Depth to Water: 1.47
Total Depth: 40.01
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
8.49	1.47										
8.59	4.44		440 s/L		12.37	258	8.07	-182.5	1.55	4.11	
9.10	6.46		520 s/L		12.72	254	8.11	-187.9	0.70	1.51	
9.17	7.54		~~120~~ s/L								increased pump rate
9.20	9.95			2.5 gal	10.52	~~10~~ 249	8.02	-191.6	0.25	4.15	
9.25	~~14.95~~ 13.95		120 s/L		10.59	246	7.98	-196.0	0.14	2.26	
9.30	17.15				10.67	245	8.01	-197.0	0.12	2.24	
9.35	19.80		160 s/L		10.78	244	7.99	-194.4	0.13	1.67	
9.48	24.60		560 s/L		11.90	242	7.91	-189.6	0.59	1.43	
10.00	25.61			5 gal	13.09	242	7.98	-183.1	1.01	1.91	shut off pump - wait for recharge
11.58	21.21										resumed pumping
12.12	21.82		~1800 s/L		15.84	234	8.02	-154.6	2.46	3.42	
12.26	22.00				16.18	233	8.19	-157.9	3.53	2.56	
12.35	22.03				16.92	231	8.28	-158.1	4.04	0.93	
12.45	22.16		600		16.83	231	8.34	-161.8	3.81	1.09	
12.54	22.43			5.5 gal	15.60	228	8.47	-164.1	2.90	1.33	almost dry - air in line
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Sample time 13.00

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-29-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-4B
Depth to Water: 6.32
Total Depth: 35.45
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
9:31	6.32		180	0							
9:36	7.15		200		11.00	86	7.31	240.4	1.47	1.76	slow pump
9:45	7.29			1½	10.56	81	6.84	262.4	0.65	1.49	
9:55	7.32		208	2½	10.43	82	6.59	268.6	0.42	2.19	
10:05	7.35		204		10.37	83	6.54	238.7	0.29	1.63	
10:14	7.28		220	4	10.46	83	6.51	197.7	0.25	1.06	
10:24	7.30		240		10.32	82	6.49	174.2	0.26	0.73	
10:35	7.22		240	5½	10.44	82	6.48	166.4	0.24	0.87	
10:45	7.18		232		10.30	82	6.48	163.1	0.24	0.83	
10:55	7.20		236	7	10.47	82	6.48	163.4	0.25	0.75	
				7½							
11:05	Sample										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 30 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: FPC 5A
Depth to Water: 2.25
Total Depth: ~~25.46~~ 25.76
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
10.22	2.25										
10.27	2.39		140 s/L		10.54	1135	7.12	-170.7	1.03	7.62	
10.33	2.42				10.55	1125	7.08	-178.8	0.53	6.27	
10.40	2.42		140		10.50	1123	7.07	-181.9	0.26	2.65	
10.50	2.42				10.40	1121	7.06	-180.4	0.18	2.50	
11.00	2.41		160	5 gal	10.49	1121	7.06	-182.2	0.16	1.03	
11.05	2.44				10.52	1121	7.06	-182.7	0.14	1.05	
11.10	2.41			6 gal	10.50	1121	7.05	-182.0	0.12	1.03	
											Sample time 11.15

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 30 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: FPC-5B
Depth to Water: 1.95
Total Depth: ~~113.26~~ 113.56
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
8:18	1.95										
8.21	2.60		100 s/l		10.80	1255	7.96	-179.9	1.53	1.17	
8.28	2.63		120		10.72	1312	7.93	-191.7	0.60	1.99	
8.35	2.53		120		10.83	1264	7.99	-197.0	0.39	1.02	
8.45	2.41		140		10.92	1226	8.02	-196.1	0.27	0.85	
8.55	2.41		120	5gal	10.87	1203	8.04	-193.2	0.20	0.84	
9.05	2.43				10.83	1187	8.05	-190.2	0.16	0.86	
9.15	2.42		140	7.5gal	10.85	1179	8.06	-187.7	0.27	0.52	
9.20	2.42				10.85	1174	8.06	-186.9	0.23	0.57	
9.25	2.44				10.83	1171	8.06	-186.5	0.18	0.59	
											Sample time 9.30

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-29-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-6A
Depth to Water: 8.43
Total Depth: 9.97
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
17:06	8.43			0							
17:10	8.87		232		15.20	778	6.82	-53.3	0.69	7.20	
17:15	9.13		264		15.16	772	6.85	-62.0	1.15	7.84	
17:20	9.14			1	15.19	772	6.86	-64.1	1.45	8.33	
17:25	9.13		268		15.14	773	6.85	-64.2	1.38	3.92	
17:30	9.14				15.17	769	6.86	-63.5	1.41	2.75	
17:35	9.14		260		15.18	767	6.85	-62.8	1.44	2.34	
17:40	9.15				15.15	766	6.85	-62.3	1.44	2.32	
17:45	Sample										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-29-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-6B
Depth to Water: 6.04
Total Depth: 30.70
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
15:08	6.04		248	0							
15:15	6.57				12.48	436	6.85	-87.4	2.31	17.7	
15:25	6.64		272	1	12.31	546	6.89	-90.8	1.43	34.4	
15:40	6.65		340	2 1/2	12.18	638	6.91	-92.7	0.95	13.7	
15:55	6.69		300		12.00	667	6.91	-90.8	0.62	6.66	
16:05	6.69		308		11.94	671	6.91	-90.9	0.49	3.79	
16:15	6.70		300	5	11.91	673	6.91	-90.2	0.41	3.39	
16:25	6.70				11.94	677	6.91	-88.3	0.36	3.46	
16:35	6.70		280	6 1/2	11.91	672	6.91	-89.0	0.30	2.72	
16:45	6.70				11.89	681	6.91	-88.7	0.28	3.32	
16:50	Sample			7 1/2							

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-31-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-7A
Depth to Water: 2.14
Total Depth: 23.95
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
11:15	2.141		168	0							
11:20	2.17		164		12.06	121	6.42	-103.2	4.99	1.66	
11:25	2.17		156	1	11.74	120	6.35	-107.2	4.88	1.38	
11:30	2.17		148		11.64	120	6.33	-108.0	4.75	1.52	
11:35	2.18		152	2	11.52	119	6.33	-108.1	4.73	1.32	
11:40	2.17			2 1/2	11.41	119	6.33	108.0	4.77	1.14	
11:45	sampled										

Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-31-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-7B
Depth to Water: 2.71
Total Depth: 46.90
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
9:07	2.71		260	0							
9:15	4.68		260		13.20	159	6.35	-111.8	4.12	2.98	
9:30	6.02		260	1 1/2	12.66	130	6.47	-130.9	3.94	2.35	
9:45	6.26		256	2 1/2	12.59	129	6.44	-129.7	3.65	2.00	
10:00	6.32		268		12.49	130	6.44	-129.5	3.12	1.83	
10:15	6.38		256		12.11	131	6.42	-130.0	2.74	1.65	
10:30	6.41		252	5 1/2	12.07	132	6.44	-131.0	2.30	1.67	
10:45	6.42		252		11.99	133	6.47	-131.0	2.33	1.62	
11:00	6.44				12.09	133	6.48	-131.1	2.26	1.52	
11:05	sample										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 31 Aug 2012
Sampled By: Cyrus Perron
Provan & Lorber, Inc.

Monitoring Point: FPC 8A
Depth to Water: 12.86
Total Depth: 33.87
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
10.40	12.86										
10.42	4.51		110 s/L		11.17	227	7.59	-17.3	1.37	8.53	
10.50	7.70				10.64	262	7.11	+18.9	0.49	33.9	
11.00	10.15		100 s/L		10.46	263	7.03	3.8	0.39	124	
11.10	12.36			5 gal	10.40	250	6.92	4.1	0.43	71	
11.20	14.51		120		10.36	243	6.85	6.3	0.60	47	
11.30	16.45				10.33	243	6.83	6.4	0.79	118	
11.40	17.90		120		10.27	244	6.81	6.0	0.83	91.3	
11.50	18.90			10 gal	10.23	246	6.81	4.8	0.76	86.4	
12.00	19.85		120		10.35	243	6.79	6.0	0.77	71.1	
12.10	20.57				10.28	244	6.77	7.1	0.66	61.8	
12.20	21.21		160		10.25	245	6.77	6.2	0.61	57.7	
12.30	21.64			15 gal	10.29	244	6.76	6.8	0.53	46.1	
12.40	22.05		140		10.37	245	6.77	~~5.8~~	0.55	43.8	
12.45	22.24				10.40	245	6.77	4.8	0.58	45.7	
12.50	22.45			17 gal	10.46	243	6.76	5.8	0.57	43.1	
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Sample time 12.55

-/

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 31 Aug 2012
Sampled By: Cyrus Parran
Provan & Lorber, Inc.

Monitoring Point: FPC 8B
Depth to Water: 2.75
Total Depth: 57.94
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
8.40	2.75										
8.45	7.78		120 s/c		10.54	228	8.02	170.0	0.28	1.80	
8.50	12.15		120		10.56	226	8.03	5.0	0.22	0.95	
8.56	15.81			3gal	16.52	226	8.04	-70.3	0.18	0.80	
9.00	18.32		120		10.45	226	8.05	-95.1	0.17	0.60	
9.05	21.12				10.37	225	8.06	-109.9	0.15	0.50	
9.10	23.60		140		10.42	225	8.07	-118.4	0.15	0.66	
9.15	25.84		140	5gal	10.52	225	8.07	-121.2	0.17	0.76	
9.20	27.65				16.68	225	8.06	-123.5	0.20	0.49	
9.25	29.20				10.73	225	8.06	-124.3	0.25	0.60	
9.30	30.31		380	6.5gal	11.01	225	8.07	-124.8	0.28	0.49	
9.35	30.71				11.86	223	8.07	-121.9	0.34	0.58	
9.40	30.80		420		12.37	224	8.09	-119.1	0.37	1.20	
9.45	30.84			7gal	12.38	225	8.10	-117.7	0.39	0.53	
9.50	30.81				12.64	224	8.11	-121.1	0.38	0.33	
9.55	30.79			7.5gal	12.76	224	8.14	-123.6	0.33	0.55	
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions
10.00	30.79				12.74	224	8.18	-121.5	0.33	0.56	

Sample time 10.05

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-31-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: RPC-9A
Depth to Water: 21.39
Total Depth: 69.35
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
14:41	21.39		232	0							
14:50	21.41		208		10.93	818	7.08	-177.4	0.42	20.7	
14:55	21.41		188	1	10.55	776	7.09	-189.9	0.46	26.5	
15:00	21.38		184		10.49	771	7.10	-193.0	0.34	28.6	
15:05	21.40			2	10.92	770	7.12	-197.0	0.27	14.4	
15:10	21.41		188		10.96	767	7.14	-197.0	0.23	8.57	
15:15	21.41				10.96	764	7.16	-196.7	0.20	6.27	
15:20	21.41		184	3	10.47	764	7.17	-193.2	0.19	5.62	
15:25	21.40				10.47	762	7.18	-193.2	0.19	5.31	
15:30	21.41			4 1/2	10.47	760	7.19	-194.0	0.18	5.48	
15:35	Sampled										

Stabilization Definitions

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-31-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: FPC-11A
Depth to Water: 21.57
Total Depth: 50.41
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
16:35	21.97		300	0							
	stop - modify silicone tubing										
16:49			184								
16:50	22.21		280		12.93	530	6.49	-172.0	0.66	29.8	slow pump
16:55	22.11				13.09	700	6.65	-180.4	0.38	15.8	
17:00	22.11		292		13.16	762	6.75	-184.5	0.31	11.1	
17:05	22.10				13.12	803	6.81	-186.0	0.27	10.4	
17:10	22.09		360		13.09	826	6.86	-187.4	0.24	11.77	
17:15	22.02				13.20	845	6.91	-188.8	0.24	7.97	
17:20	22.05		364		13.13	850	6.93	-188.9	0.23	7.21	
17:25	22.07			3*	13.16	858	6.96	-189.0	0.23	6.31	
17:30	22.04		460		13.22	860	6.97	-189.8	0.21	4.68	
17:35	22.08				12.96	868	7.01	-189.6	0.22	5.12	
17:40	22.18		268		12.81	863	7.01	-189.2	0.19	4.80	
17:45	22.07				12.78	864	7.02	-190.1	0.19	5.08	
17:50	sample										
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 31 Aug 2012
Sampled By: Cyrus Perran
Provan & Lorber, Inc.

Monitoring Point: EPC 11 B
Depth to Water: 21.53
Total Depth: 70.70
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
16.18	21.53										
16.21	22.29		240 ml		14.36	659	7.53	-54.7	0.92	62.3	
16:30	22.36				13.56	813	7.09	-80.8	0.31	37.9	
16.40	22.26		280		13.76	785	7.00	-86.5	0.23	27.9	
16.50	22.26				13.71	713	6.92	-70.7	0.20	16.2	
17.00	22.12		360	2.5gal	14.39	784	6.98	-72.4	0.20	11.0	
17.15	22.39		240		12.97	885	7.07	-79.3	0.16	5.11	
17.30	22.31		560		13.19	926	7.15	-83.6	0.14	3.42	repositioned tubing on pump head
17.45	22.57		220	5gal	12.69	935	7.18	-84.4	0.15	4.69	
18.00	22.37		240		13.00	930	7.20	-83.7	0.12	3.90	
18.10	22.30		260		13.13	950	7.22	-84.7	0.12	3.04	
18.20	22.37				12.98	958	7.24	-85.3	0.12	2.76	
18.25	22.30		220	7.5 gal	13.19	960	7.24	-85.1	0.12	1.98	
18.30	22.38				12.78	965	7.25	-85.6	0.12	2.64	
											Sample time: 18.35
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ ≤5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 31 Aug 2012
Sampled By: Cyrus Peron
Provan & Lorber, Inc.

Monitoring Point: GZ 105
Depth to Water: 4.13
Total Depth: 51.99
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
13.49	4.13										
13:56	4.20		90 s/L		10.87	951	7.48	-118.0	0.24	0.41	
14.01	4.20			2.5gal	10.64	1101	7.29	-125.2	0.17	0.53	
14.05	4.19				10.47	1137	7.27	-127.6	0.16	0.41	
14.10	4.20		80 s/L		10.47	1148	7.27	-129.4	0.13	0.32	
14.15	4.20			5gal	10.41	1163	7.27	-130.2	0.12	0.56	
14.20	4.19				10.40	1170	7.28	-131.3	0.12	0.86	
14.25	4.20		80		10.31	1175	7.28	-132.1	0.11	0.98	
14.30	4.20			7.5gal	10.26	1181	7.29	-132.5	0.11	1.43	
14.35	4.20				10.23	1182	7.29	-132.9	0.10	1.22	
											Sample time 14.40
Δ <0.3'					3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 6-24-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: GZ-123
Depth to Water: ~~8~~ 10.48
Total Depth: 17.58
Purging Device: Peristaltic Pump

Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
10:32	10.55		260	0							
10:40	11.23		252		17.62	196	5.99	66.4	1.62	46.1	
10:90	11.18		272		17.88	200	6.02	61.7	1.89	21.8	
10:56	11.19		258		17.93	200	6.01	64.9	2.07	20.7	
11:00	11.21		260		17.99	199	6.01	68.9	2.24	27.8	
11:05	11.20				18.60	199	6.01	71.6	2.27	20.1	
11:10	11.22		260		17.90	199	6.01	72.7	2.28	13.0	
11:15	11.21				17.92	199	6.01	74.0	2.36	10.95	
11:20	11.22		252		17.74	199	6.01	75.3	2.43	8.19	
11:25	11.22				17.71	200	6.02	75.6	2.54	8.17	
11:30	11.22			3½ +	17.74	200	6.02	76.0	2.62	8.22	
11:35	Sampled										
	Δ <0.3'				3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-27&28-12
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: 6" wells
Depth to Water:
Total Depth:
Purging Device: Discrete Interval sampler

	Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
								6.78				
8-27-12	MW-6	11.49				13.7	232	6.78	-72.6	2.23	69.3	
	14:30											
8-28-12	GZ-17S	9.70				17.05	408	7.17	183.0	1.99	136	
	9:45											
8-24-12	BP-4	15.22				16.47	969	7.16	-174.1	1.15	5.01	
	13:30											

	Δ <0.3'			3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

Project Name: Coakley Landfill
Project Number: P2081
Monitoring Date: 8-30
Sampled By: KMM
Provan & Lorber, Inc.

Monitoring Point: DW, SW
Depth to Water:
Total Depth:
Purging Device:

	Time 24 Hr.	DTW	Pump Dial	Purge Rate	Volume Purged	Temp. °C	Spec. Cond. µS/cm	pH	ORP mV	D.O. mg/L	Turbidity NTU	Comments
8-30	R-3	sampled	9:25			12.73	466	8.54	-22.5	4.98	0.70	
	R-5	not	occupied	since	last year							
8-30		346 Breakfast	Hill Rd.			13.20	606	7.32	~~-82~~	6.35	17.6	
		17:00							-75.8			
8-30	L-1	sampled	10:20			15.38	1399	6.61	-76.0	2.26	17.2	
8-30	SW-4	Dry										
8-30	SW-5	Dry										
8-30	SW-10B	Dry										

Δ <0.3'	3%	3%	±0.1	±10mV	10% if >0.5	10% if >5 or 3@ <5	Stabilization Definitions

US Environmental Rental Corporation

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5C South Gold Dr, Hamilton, NJ 08691 (609) 570-8555
1202 Tech Blvd., Suite 108, Tampa, FL 33619 (813) 628-4200

YSI

Company: Proven & Lorber
Contact: K McKibben
Phone #: #N/A

Order No.: 47503
Date: 8/23/2012
Technician: TL

Packing List

Item	Serial Number	Tech	QC
600 XL	04C2866 AA	✓	
Handheld Display	02F1227 AA	✓	

Item	Tech	QC	Item	Tech	QC
Cable 8 '	✓	✓	AC Adaptor		
Flow Cell	✓	✓	Stand	✓	✓
Barb Kit	✓	✓	D.O Kit	✓	✓
Storage / Cal Cup	✓	✓	Calibration Kit	✓	✓
Sensor Guard	✓	✓			
Manual	✓	✓			
Sonde Cap					
Software					
Extra Batteries	✓	✓			
Display Comm. Cable	✓	✓			
Sonde Comm. Cable					

Calibration Report

600 XL		04C2866 AA		
Parameter	***Accuracy***	***Before***	***After***	***Lot #***
Conductivy 1000 µs/cm	*(+/-.5%)*	1069	1000	9090
pH 7 Buffer	*(+/- .2)*	7.37	7.00	IAJ151
pH mV for 7 Buffer	*(0 +/- 50)*		**-21.5**	
pH 4 Buffer	*(+/- .2)*	4.07	4.00	IAJ303
pH mV for 4 Buffer	*(180 +/- 50)*		**150.2**	
pH 10 Buffer	*(+/- .2)*	9.96	9.99	IAI480
pH mV for 10 Buffer	*(-180 +/- 50)*		**-191.4**	
ORP mV, 237.5	*(+/- 20 mV)*	69.0	100.00	11H100470
DO 100% Sat	*(+/- 2%)*	88.5%	101.7%	
0% DO Check	*(+/- 2%)*		2.00	QX1
Turbidity 0 NTU	*(+/- 5%)*			C149657
Turbidity 126 NTU	*(+/- 5%)*			12B250230

This document certifies that US Environmental Rental Corporation has provided this rental equipment and all accessories in good working order. It is the renter's responsibility to: a) review all included items upon receipt, b) verify that all items are in acceptable condition and function properly, and c) contact a US Environmental associate immediately if any item is missing, damaged, and/or not functioning properly. Any delay in notifying US Environmental will be considered as the Renter taking responsibility for such missing, damaged, and/or malfunctioning item.

Missing, damaged, and/or malfunctioning equipment and accessories will result in additional fees.

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YSI

Company: Proven & Lorber
Contact: K McKibben
Phone #: #N/A

Order No.: 47503
Date: 8/23/2012
Technician: TL

Packing List

Item	Serial Number	Tech	QC
600 XL	02B0141 AF	✓	
Handheld Display	03D0903 AF	✓	

Item	Tech	QC	Item	Tech	QC
Cable 8 '	✓	✓	AC Adaptor		
Flow Cell	✓	✓	Stand	✓	✓
Barb Kit	✓	✓	D.O Kit	✓	✓
Storage / Cal Cup	✓	✓	Calibration Kit		
Sensor Guard	✓	✓			
Manual	✓	✓			
Sonde Cap					
Software					
Extra Batteries	✓	✓			
Display Comm. Cable	✓	✓			
Sonde Comm. Cable					

Calibration Report

600 XL		02B0141 AF		
Parameter	***Accuracy***	***Before***	***After***	***Lot #***
Conductivy 1000 µs/cm	*(+/-.5%)*	1052	1000	9090
pH 7 Buffer	*(+/- .2)*	7.18	7.00	IAJ151
pH mV for 7 Buffer	*(0 +/- 50)*		**-10.4**	
pH 4 Buffer	*(+/- .2)*	4.04	4.00	IAJ303
pH mV for 4 Buffer	*(180 +/- 50)*		**163.0**	
pH 10 Buffer	*(+/- .2)*	10.00	10.00	IAI480
pH mV for 10 Buffer	*(-180 +/- 50)*		**-183.7**	
ORP mV, 237.5	*(+/- 20 mV)*	90.4	100.00	11H100470
DO 100% Sat	*(+/- 2%)*	101.0%	101.6%	
0% DO Check	*(+/- 2%)*		1.90	QX1
Turbidity 0 NTU	*(+/- 5%)*			C149657
Turbidity 126 NTU	*(+/- 5%)*			12B250230

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INSTRUMENT CALIBRATION LOG

Project Name: Coakley Landfill Date: 8-27-12
Weather: clear

Calibrated By: KMM

Instrument #1 CUP Model: YSI 600 XL Serial Number: 02F1227 AA
Instrument #2 KMM Model: " Serial Number: 03D0903 AF

Parameter	Morning Calibration		End of Day Check	
	#1	#2	#1	#2
Specific Conductance	1000	1000	1023	884
pH (4)	4	4	4.09 disc	4.08 disc
pH (7)	7	7	6.91	6.90
pH (10)	10.03	10.03	10.11	10.09
ORP Zorbel solution (240)	240	240	237.8	240.5
Dissolved Oxygen 100% saturated air (percent)	102.6	101.2	108.6	105.2
Dissolved Oxygen Zero Solution (mg/l)	0.34	0.38	0.09	0.15
Barometric Pressure (mm Hg)	776.2	772.2	762.2	

Temp. 20 16

INSTRUMENT CALIBRATION LOG

Project Name: Coakley Landfill Date: 8-25-12
Weather: Rain / cloudy

Calibrated By: KMM

Instrument #1 CUP Model: YSI 600XL Serial Number: 02F1227 AA
Instrument #2 KMM Model: " Serial Number: 03D0903 AF

Parameter	Morning Calibration		End of Day Check	
	#1	#2	mid #1 / End	#2
Specific Conductance	1000	1000	948 / 1096	984
pH (4)	4	4	3.99 / 4.01	4.03
pH (7)	7	7	6.91 / 6.92	6.89
pH (10)	10.04	10.03	10.03 / 9.94	10.03
ORP Zorbel solution (240)	240	240	222.3 237.2	233.2
Dissolved Oxygen 100% saturated air (percent)	100.2	100.3	99.5 95.4	97.9
Dissolved Oxygen Zero Solution (mg/l)	0.16	0.15	0.19 0.06	0.10
Barometric Pressure (mm Hg)	762.1	762.2	761.4	760.4

20 31°C

INSTRUMENT CALIBRATION LOG

Project Name: Coakley Landfill Date: 8-29
Weather: clear

Calibrated By: KMM CVP

Instrument #1 CVP Model: YSI 600XL Serial Number: 02F1227AA
Instrument #2 KMM Model: " Serial Number: 03D0903AF

Parameter	Morning Calibration		End of Day Check	
	#1	#2	#1	#2
Specific Conductance	1000	1000	1170	915
pH (4)	4	4	4.25	4.04
pH (7)	7	7	6.93	6.92
pH (10)	10.01	10.04	9.96	10.05
ORP Zorbel solution (240)	240	240	233.2	231.0
Dissolved Oxygen 100% saturated air (percent)	100	100	100.2	101.0
Dissolved Oxygen Zero Solution (mg/l)	0.14	0.25	0.06	0.11
Barometric Pressure (mm Hg)	762.9	765.7	762.7	764.5
	17°		24	

INSTRUMENT CALIBRATION LOG

Project Name: Coakley Landfill Date: 8-30-12
Weather: Clear

Calibrated By: KMM

Instrument #1 CVP Model: YSI 600XL Serial Number: 02F1227 AA
Instrument #2 KMM Model: " Serial Number: 03D0903 AF

Parameter	Morning Calibration		End of Day Check	
	#1	#2	#1	#2
Specific Conductance	1000	1000	1091	1047
pH (4)	4	4	4.10	4.07
pH (7)	7	7	6.88	6.90
pH (10)	10.06	10.04	10.01	9.99
ORP Zorbel solution (240)	240	240	223.9	224.7
Dissolved Oxygen 100% saturated air (percent)	100.7	100.9	99.1	96.6
Dissolved Oxygen Zero Solution (mg/l)	0.21	0.21	0.09	0.12
Barometric Pressure (mm Hg)	769.4	767.1	764.8	764.8
	16.3	~~14.5~~ 16.3	27.4	28.0

INSTRUMENT CALIBRATION LOG

Project Name: Coakley Landfill Date: 8-31-12
Weather: clear

Calibrated By: KMM

Instrument #1 KMM Model: YSI 600XL Serial Number: 02F1227AA
Instrument #2 CVP Model: " Serial Number: 03D0903AF

Parameter	Morning Calibration		End of Day Check	
	#1	#2	#1	#2
Specific Conductance	1000	1000	1036	1042
pH (4)	4	4	4.06	4.10
pH (7)	7	7	6.87	6.91
pH (10)	10.06	10.05	9.98	10.01
ORP Zorbel solution (240)	240	240	226.8	228.2
Dissolved Oxygen 100% saturated air (percent)	100.7	100.6	98.1	96.6
Dissolved Oxygen Zero Solution (mg/l)	0.16	0.18	0.09	0.09
Barometric Pressure (mm Hg)	765.3	764.3	764.0	761.3
Temp	20.2	20.4	27.1	27.8

SECTION 3

Eastern Analytical, Inc.

professional laboratory & drilling services

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook , NH 03229

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 113593
Client Identification: Coakley Landfill | P2081
Date Received: 8/28/2012

Dear Mr. McKibben :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director | 9.14.12 Date | 476 # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Temperature upon receipt (°C): 1.3 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
113593.01	GW-BP-4-0812	8/28/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113593.02	GW-MW-5S-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy Additional sample received for MS/MSD analysis
113593.03	GW-MW-5S-DUP-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.04	GW-MW-5D-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.05	GW-MW-6-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.06	GW-MW-8-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.07	GW-MW-10-0812	8/28/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113593.08	GW-OP-2-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.09	GW-GZ-123-0812	8/28/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113593.1	GW-GZ-125-0812	8/28/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113593.11	GW-MW-5S-FB-0812	8/28/12	8/27/12	aqueous		Adheres to Sample Acceptance Policy
113593.12	Equipment	8/28/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113593.13	Trip Blank - 8260	8/28/12	7/20/12	aqueous		Adheres to Sample Acceptance Policy
113593.14	Trip Blank - 1,4 Diox.	8/28/12	8/9/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-0812	GW-MW-5S-DUP-0812	GW-MW-5D-0812	GW-MW-6-0812	GW-MW-8-0812	GW-GZ-123-0812	GW-GZ-125-0812
Lab Sample ID:	113593.02	113593.03	113593.04	113593.05	113593.06	113593.09	113593.1
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/27/12	8/27/12	8/27/12	8/27/12	8/27/12	8/28/12	8/28/12
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/7/12	9/7/12	8/30/12	8/30/12	9/7/12	8/30/12	8/30/12
Analyst:	BAM	BAM	KJP	KJP	BAM	KJP	KJP
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	**6**	**6**	**41**	< 5	**18**	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Diethyl Ether	**27**	**28**	**110**	< 5	**73**	< 5	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	**40**	< 30	**40**	< 30	< 30
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	**30**	**30**	**90**	< 10	**100**	< 10	< 10
Chloroform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	**3**	**3**	**2**	< 1	**6**	< 1	< 1
1,2-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	**90**	< 50	**150**	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	< 2	**2**	**3**	< 2	**9**	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1

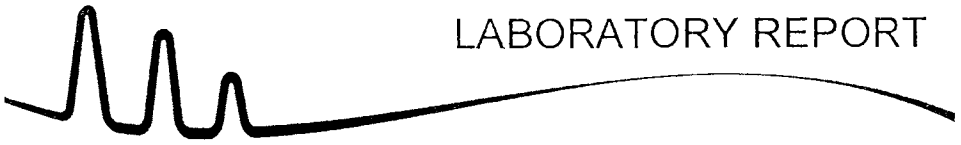
LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-0812	GW-MW-5S-DUP-0812	GW-MW-5D-0812	GW-MW-6-0812	GW-MW-8-0812	GW-GZ-123-0812	GW-GZ-125-0812
Lab Sample ID:	113593.02	113593.03	113593.04	113593.05	113593.06	113593.09	113593.1
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/27/12	8/27/12	8/27/12	8/27/12	8/27/12	8/28/12	8/28/12
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/7/12	9/7/12	8/30/12	8/30/12	9/7/12	8/30/12	8/30/12
Analyst:	BAM	BAM	KJP	KJP	BAM	KJP	KJP
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
mp-Xylene	< 1	< 1	< 1	< 1	**1**	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
IsoPropylbenzene	**1**	**2**	< 1	< 1	**2**	< 1	< 1
Bromobenzene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	**2**	**3**	**2**	< 1	**2**	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	**96 %R**	**97 %R**	**94 %R**	**90 %R**	**97 %R**	**85 %R**	**86 %R**
1,2-Dichlorobenzene-d4 (surr)	**101 %R**	**101 %R**	**102 %R**	**108 %R**	**101 %R**	**110 %R**	**106 %R**
Toluene-d8 (surr)	**97 %R**	**97 %R**	**100 %R**	**94 %R**	**97 %R**	**100 %R**	**105 %R**



LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-FB-0812	Equipment	Trip Blank - 8260
Lab Sample ID:	113593.11	113593.12	113593.13
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/27/12	8/28/12	7/20/12
Date Received:	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	8/30/12	8/30/12	8/30/12
Analyst:	KJP	KJP	KJP
Method:	8260B	8260B	8260B
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5
Diethyl Ether	< 5	< 5	< 5
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2	< 2
Chlorobenzene	< 2	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-FB-0812	Equipment	Trip Blank - 8260
Lab Sample ID:	113593.11	113593.12	113593.13
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/27/12	8/28/12	7/20/12
Date Received:	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	8/30/12	8/30/12	8/30/12
Analyst:	KJP	KJP	KJP
Method:	8260B	8260B	8260B
Dilution Factor:	1	1	1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	**85 %R**	**87 %R**	**88 %R**
1,2-Dichlorobenzene-d4 (surr)	**102 %R**	**112 %R**	**110 %R**
Toluene-d8 (surr)	**102 %R**	**102 %R**	**97 %R**

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	18 (92 %R)	18 (88 %R) (4 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
Chloromethane	< 2	18 (88 %R)	16 (80 %R) (10 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	20 (101 %R)	18 (88 %R) (14 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Bromomethane	< 2	18 (90 %R)	18 (92 %R) (2 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
Chloroethane	< 5	21 (103 %R)	20 (102 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	24 (118 %R)	23 (113 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	21 (104 %R)	19 (97 %R) (7 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Acetone	< 10	10 (75 %R)	10 (67 %R) (11 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	20 (99 %R)	19 (96 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	< 30	90 (87 %R)	90 (91 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	19 (95 %R)	19 (93 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	19 (96 %R)	19 (95 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	20 (101 %R)	19 (97 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	< 5	20 (102 %R)	19 (96 %R) (6 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	< 5	20 (100 %R)	19 (95 %R) (5 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	< 5	19 (97 %R)	19 (95 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	19 (97 %R)	18 (92 %R) (5 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	20 (101 %R)	20 (99 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	20 (100 %R)	19 (94 %R) (6 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	20 (99 %R)	19 (96 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (93 %R)	20 (86 %R) (8 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (93 %R)	20 (93 %R) (0 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Chloroform	< 2	21 (105 %R)	20 (100 %R) (5 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	21 (106 %R)	21 (104 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	22 (110 %R)	22 (108 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	20 (102 %R)	20 (99 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Benzene	< 1	19 (97 %R)	19 (93 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	21 (107 %R)	21 (103 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	19 (95 %R)	18 (92 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	19 (94 %R)	18 (91 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	21 (107 %R)	20 (101 %R) (6 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 0.5	22 (108 %R)	21 (104 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	< 50	< 50 (140 %R)	< 50 (135 %R) (4 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (97 %R)	20 (94 %R) (3 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 2	21 (105 %R)	20 (99 %R) (6 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Toluene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 2	19 (95 %R)	19 (93 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	21 (105 %R)	20 (100 %R) (5 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (100 %R)	20 (98 %R) (2 RPD)	8/30/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	21 (103 %R)	21 (106 %R) (3 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	20 (101 %R)	20 (101 %R) (0 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	22 (109 %R)	22 (110 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 2	20 (102 %R)	20 (102 %R) (0 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	19 (97 %R)	20 (99 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	22 (111 %R)	21 (107 %R) (4 RPD)	8/30/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	21 (106 %R)	22 (108 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	41 (103 %R)	42 (104 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
o-Xylene	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Styrene	< 1	21 (107 %R)	21 (105 %R) (2 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Bromoform	< 2	22 (112 %R)	23 (113 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	19 (93 %R)	21 (103 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	18 (92 %R)	20 (102 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	20 (98 %R)	21 (107 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	20 (102 %R)	22 (112 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	19 (94 %R)	21 (104 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	20 (98 %R)	21 (107 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	20 (102 %R)	22 (110 %R) (8 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	20 (101 %R)	22 (112 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	21 (103 %R)	22 (110 %R) (7 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	20 (100 %R)	22 (110 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	19 (96 %R)	21 (105 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	21 (106 %R)	23 (113 %R) (6 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	19 (96 %R)	21 (105 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	19 (95 %R)	21 (104 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	20 (101 %R)	22 (110 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 2	19 (96 %R)	21 (107 %R) (11 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	< 1	19 (94 %R)	21 (104 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	19 (95 %R)	21 (105 %R) (10 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 0.5	21 (103 %R)	23 (116 %R) (12 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
Naphthalene	< 5	17 (84 %R)	19 (94 %R) (11 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	17 (84 %R)	18 (92 %R) (9 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	94 %R	107 %R	101 %R	8/30/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	103 %R	95 %R	93 %R	8/30/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	96 %R	100 %R	105 %R	8/30/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	13 (66 %R)	14 (68 %R) (3 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Chloromethane	< 2	15 (76 %R)	15 (77 %R) (1 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	15 (77 %R)	16 (79 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromomethane	< 2	17 (85 %R)	18 (90 %R) (6 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Chloroethane	< 5	18 (92 %R)	19 (96 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	18 (89 %R)	18 (92 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	16 (82 %R)	17 (86 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Acetone	< 10	20 (88 %R)	20 (94 %R) (7 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	16 (82 %R)	17 (85 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	< 30	70 (74 %R)	80 (79 %R) (7 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	18 (90 %R)	19 (93 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	16 (81 %R)	17 (85 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	16 (78 %R)	16 (82 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	< 5	16 (82 %R)	17 (87 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	< 5	17 (83 %R)	17 (87 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	< 5	16 (81 %R)	17 (86 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	18 (92 %R)	19 (96 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	18 (90 %R)	19 (94 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	* 13 (65 %R)	* 14 (69 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	19 (97 %R)	20 (99 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (81 %R)	20 (86 %R) (6 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	19 (93 %R)	19 (96 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (82 %R)	20 (87 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Chloroform	< 2	18 (91 %R)	19 (94 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	17 (83 %R)	17 (87 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	16 (82 %R)	17 (86 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	18 (89 %R)	19 (93 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Benzene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	17 (83 %R)	17 (86 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	18 (89 %R)	19 (93 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	19 (93 %R)	19 (96 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	19 (94 %R)	19 (97 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 0.5	18 (88 %R)	19 (93 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	< 50	< 50 (114 %R)	< 50 (123 %R) (8 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (87 %R)	20 (92 %R) (6 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 2	18 (88 %R)	18 (92 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Toluene	< 1	18 (90 %R)	19 (93 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 2	16 (79 %R)	16 (81 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	18 (91 %R)	19 (94 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (80 %R)	20 (85 %R) (6 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	20 (100 %R)	21 (103 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	17 (87 %R)	18 (91 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	16 (81 %R)	17 (85 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 2	18 (88 %R)	18 (92 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	18 (91 %R)	19 (93 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	18 (90 %R)	19 (93 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	18 (92 %R)	19 (96 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	37 (93 %R)	39 (96 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
o-Xylene	< 1	18 (90 %R)	19 (93 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Styrene	< 1	19 (95 %R)	20 (98 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromoform	< 2	17 (85 %R)	18 (89 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	< 1	20 (99 %R)	21 (103 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	17 (86 %R)	18 (89 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	17 (87 %R)	18 (92 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	16 (82 %R)	17 (84 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	18 (88 %R)	18 (91 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	16 (82 %R)	17 (85 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	17 (83 %R)	17 (86 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	17 (85 %R)	18 (88 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	17 (86 %R)	18 (90 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	17 (84 %R)	18 (88 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	17 (87 %R)	18 (91 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	18 (88 %R)	18 (91 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	18 (90 %R)	19 (94 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	18 (89 %R)	18 (92 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	17 (87 %R)	18 (90 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	17 (86 %R)	18 (90 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 2	19 (93 %R)	19 (95 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	< 1	17 (85 %R)	18 (90 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	18 (88 %R)	19 (93 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 0.5	16 (81 %R)	17 (86 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Naphthalene	< 5	17 (85 %R)	18 (90 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	17 (85 %R)	18 (91 %R) (7 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	94 %R	101 %R	101 %R	9/7/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	102 %R	99 %R	99 %R	9/7/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	97 %R	96 %R	97 %R	9/7/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	113593.02	< 5	16 (79 %R)	14 (72 %R) (9 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Chloromethane	113593.02	< 2	18 (88 %R)	16 (80 %R) (10 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	113593.02	< 2	19 (93 %R)	17 (85 %R) (9 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromomethane	113593.02	< 2	19 (93 %R)	18 (90 %R) (3 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Chloroethane	113593.02	6	27 (107 %R)	25 (97 %R) (10 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	113593.02	< 5	21 (107 %R)	19 (96 %R) (11 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	113593.02	27	45 (92 %R)	44 (87 %R) (6 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Acetone	113593.02	< 10	20 (95 %R)	20 (86 %R) (10 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	113593.02	< 1	19 (95 %R)	18 (92 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	113593.02	< 30	90 (77 %R)	90 (78 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Methylene chloride	113593.02	< 5	20 (99 %R)	19 (95 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	113593.02	< 5	20 (96 %R)	19 (92 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	113593.02	< 5	17 (85 %R)	17 (82 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	113593.02	< 5	18 (89 %R)	18 (88 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	113593.02	< 5	18 (91 %R)	18 (90 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	113593.02	< 5	18 (88 %R)	17 (87 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	113593.02	< 2	21 (107 %R)	21 (104 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	113593.02	< 2	21 (102 %R)	20 (99 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	113593.02	< 2	18 (88 %R)	17 (85 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	113593.02	< 2	22 (109 %R)	21 (104 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	113593.02	< 10	20 (87 %R)	20 (79 %R) (10 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	113593.02	< 2	20 (102 %R)	20 (98 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	113593.02	30	50 (99 %R)	50 (94 %R) (5 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Chloroform	113593.02	< 2	20 (102 %R)	20 (99 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	113593.02	< 2	19 (97 %R)	19 (94 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	113593.02	< 2	20 (98 %R)	19 (95 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	113593.02	< 2	21 (104 %R)	20 (102 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Benzene	113593.02	3	25 (110 %R)	25 (107 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	113593.02	< 2	19 (91 %R)	18 (88 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Trichloroethene	113593.02	< 2	20 (102 %R)	20 (99 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	113593.02	< 2	21 (103 %R)	20 (99 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Dibromomethane	113593.02	< 2	20 (102 %R)	20 (98 %R) (4 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	113593.02	< 0.5	20 (98 %R)	19 (95 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	113593.02	< 50	70 (158 %R) *	80 (182 %R) (14 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	113593.02	< 10	20 (96 %R)	20 (86 %R) (11 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	113593.02	< 2	20 (99 %R)	19 (97 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Toluene	113593.02	< 1	20 (101 %R)	20 (99 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	113593.02	< 2	17 (87 %R)	17 (86 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	113593.02	< 2	19 (97 %R)	19 (95 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Hexanone	113593.02	< 10	20 (85 %R)	20 (77 %R) (10 RPD)	9/7/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	113593.02	< 2	23 (114 %R)	22 (112 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	113593.02	< 2	19 (94 %R)	18 (92 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	113593.02	< 2	18 (88 %R)	17 (86 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	113593.02	< 2	19 (94 %R)	19 (93 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	113593.02	< 2	22 (101 %R)	22 (99 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	113593.02	< 2	20 (99 %R)	19 (97 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	113593.02	< 1	21 (105 %R)	20 (102 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
mp-Xylene	113593.02	< 1	42 (106 %R)	41 (103 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
o-Xylene	113593.02	< 1	20 (101 %R)	20 (99 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Styrene	113593.02	< 1	21 (106 %R)	21 (104 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromoform	113593.02	< 2	18 (91 %R)	18 (90 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	113593.02	1	24 (115 %R)	24 (113 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Bromobenzene	113593.02	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	113593.02	< 2	19 (94 %R)	19 (93 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	113593.02	< 2	17 (86 %R)	17 (86 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	113593.02	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	113593.02	< 2	18 (92 %R)	19 (92 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	113593.02	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	113593.02	< 1	19 (94 %R)	19 (96 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	113593.02	< 1	20 (98 %R)	20 (98 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	113593.02	< 1	19 (94 %R)	19 (96 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	113593.02	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	113593.02	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	113593.02	< 1	21 (103 %R)	21 (103 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	113593.02	2	22 (98 %R)	22 (99 %R) (1 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	113593.02	< 1	19 (95 %R)	19 (95 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	113593.02	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	113593.02	< 2	20 (101 %R)	20 (99 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	113593.02	< 1	19 (96 %R)	20 (98 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	113593.02	< 1	20 (98 %R)	20 (101 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	113593.02	< 0.5	19 (94 %R)	19 (96 %R) (2 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
Naphthalene	113593.02	< 5	19 (91 %R)	19 (94 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	113593.02	< 1	19 (93 %R)	19 (96 %R) (3 RPD)	9/7/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	113593.02	104 %R	102 %R	101 %R	9/7/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4	113593.02	101 %R	99 %R	100 %R	9/7/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	113593.02	86 %R	96 %R	97 %R	9/7/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-BP-4-0812	GW-MW-5S -0812	GW-MW-5S-DUP-0812	GW-MW-5D -0812	GW-MW-6 -0812	GW-MW-8 -0812	GW-OP-2 -0812
Lab Sample ID:	113593.01	113593.02	113593.03	113593.04	113593.05	113593.06	113593.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/28/12	8/27/12	8/27/12	8/27/12	8/27/12	8/27/12	8/27/12
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	8/29/12	8/30/12	8/29/12	8/30/12	8/30/12	8/30/12	8/29/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	10	10	100	1	100	1
1,4-Dioxane	**13**	**61**	**67**	**140**	< 0.25	**210**	**1.0**
4-Bromofluorobenzene (surr)	**93 %R**	**104 %R**	**99 %R**	**100 %R**	**97 %R**	**99 %R**	**83 %R**
Toluene-d8 (surr)	**88 %R**	**86 %R**	**101 %R**	**91 %R**	**88 %R**	**96 %R**	**78 %R**

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-FB-0812	Equipment	Trip Blank - 1,4 Diox.
Lab Sample ID:	113593.11	113593.12	113593.14
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/27/12	8/28/12	8/9/12
Date Received:	8/28/12	8/28/12	8/28/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	8/29/12	8/29/12	8/29/12
Analyst:	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**86 %R**	**97 %R**	**88 %R**
Toluene-d8 (surr)	**100 %R**	**91 %R**	**104 %R**

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	4.3 (86 %R)	4.7 (94 %R) (9 RPD)	8/29/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	92 %R	93 %R	88 %R	8/29/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	78 %R	91 %R	89 %R	8/29/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
1,4-Dioxane	< 0.25	4.5 (91 %R)	5.0 (100 %R) (9 RPD)	ug/l	8/30/12	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	105 %R	95 %R	96 %R	% Rec	8/30/12	70 - 130	50	8260B
Toluene-d8 (surr)	111 %R	95 %R	88 %R	% Rec	8/30/12	70 - 130	50	8260B

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
1,4-Dioxane	113593.02	61	110 (92 %R)	120 (118 %R) (25 RPD) !	ug/l	8/30/12	70-130	20	8260B
4-Bromofluorobenzene	113593.02	104 %R	100 %R	95 %R	%	8/30/12		50	8260B
Toluene-d8 (surr)	113593.02	86 %R	91 %R	103 %R	%	8/30/12		50	8260B

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.5 (110 %R)	6.0 (119 %R) (8 RPD)	8/30/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	98 %R	91 %R	88 %R	8/30/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	100 %R	98 %R	103 %R	8/30/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-BP-4-0812	GW-MW-5D -0812	GW-MW-8 -0812	GW-MW-10 -0812					
Lab Sample ID:	113593.01	113593.04	113593.06	113593.07					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/28/12	8/27/12	8/27/12	8/28/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12					
Aluminum	< 0.05	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.034**	**0.011**	**0.018**	**0.019**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.047**	**0.13**	**0.34**	**0.067**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Calcium	**55**	**35**	**44**	**70**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.001**	< 0.001	**0.005**	**0.002**	AqTot	mg/L	9/6/12	200.8	DS
Iron	**33**	**15**	**10**	**30**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**21**	**28**	**44**	**19**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**1.2**	**0.96**	**2.2**	**3.0**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.008**	**0.009**	**0.020**	**0.005**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**17**	**22**	**20**	**12**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	**0.002**	**0.013**	**0.012**	**0.003**	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**66**	**130**	**180**	**71**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-5S-0812	GW-MW-5S-DUP-0812	GW-MW-6-0812	GW-OP-2-0812					
Lab Sample ID:	113593.02	113593.03	113593.05	113593.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/27/12	8/27/12	8/27/12	8/27/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12					
Iron	**13**	**13**	**1.0**	**44**	AqDis	mg/L	9/6/12	200.8	DS
Manganese	**3.6**	**3.5**	**2.4**	**1.1**	AqDis	mg/L	9/6/12	200.8	DS
Aluminum	< 0.05	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.017**	**0.017**	< 0.001	**0.22**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.18**	**0.17**	**0.006**	**0.015**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Calcium	**34**	**36**	**16**	**36**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	**0.012**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.004**	**0.004**	**0.001**	**0.004**	AqTot	mg/L	9/6/12	200.8	DS
Iron	**13**	**14**	**16**	**39**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	**0.001**	**0.006**	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**19**	**20**	**5.7**	**7.0**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**3.6**	**3.8**	**2.5**	**1.0**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.010**	**0.010**	**0.004**	**0.034**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**20**	**20**	**1.9**	**14**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	**0.005**	**0.005**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**89**	**83**	**12**	**13**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	**0.026**	**0.013**	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-GZ-123-0812	GW-GZ-125 -0812	GW-MW-5S-FB-0812	Equipment					
Lab Sample ID:	113593.09	113593.1	113593.11	113593.12					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/28/12	8/28/12	8/27/12	8/28/12					
Date Received:	8/28/12	8/28/12	8/28/12	8/28/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Iron	**4.3**	**0.81**	< 0.05	< 0.05	AqDis	mg/L	9/6/12	200.8	DS
Manganese	**1.6**	**0.31**	< 0.005	< 0.005	AqDis	mg/L	9/6/12	200.8	DS
Aluminum	< 0.05	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.004**	**0.005**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Calcium	**13**	**15**	**0.17**	**0.19**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	**0.003**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.003**	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**5.7**	**44**	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**3.3**	**8.1**	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**1.7**	**0.31**	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.002**	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**1.8**	**2.6**	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**15**	**18**	< 5	< 5	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	**0.008**	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	12 (110 %R)		mg/L	9/6/12	85 - 115	20	200.8
Antimony	< 0.001	1.1 (112 %R)		mg/L	9/6/12	85 - 115	20	200.8
Arsenic	< 0.001	1.0 (104 %R)		mg/L	9/6/12	85 - 115	20	200.8
Barium	< 0.001	1.1 (113 %R)		mg/L	9/6/12	85 - 115	20	200.8
Beryllium	< 0.001	0.94 (94 %R)		mg/L	9/6/12	85 - 115	20	200.8
Calcium	< 0.05	13 (114 %R)		mg/L	9/7/12	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (109 %R)		mg/L	9/6/12	85 - 115	20	200.8
Chromium	< 0.001	1.1 (114 %R)		mg/L	9/6/12	85 - 115	20	200.8
Copper	< 0.001	1.0 (101 %R)		mg/L	9/6/12	85 - 115	20	200.8
Cobalt	< 0.001	1.1 (110 %R)		mg/L	9/6/12	85 - 115	20	200.8
Iron	< 0.05	11 (103 %R)		mg/L	9/6/12	85 - 115	20	200.8
Lead	< 0.001	1.0 (103 %R)		mg/L	9/6/12	85 - 115	20	200.8
Magnesium	< 0.05	12 (111 %R)		mg/L	9/7/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (114 %R)		mg/L	9/6/12	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (102 %R)		mg/L	9/6/12	85 - 115	20	200.8
Nickel	< 0.001	1.1 (107 %R)		mg/L	9/6/12	85 - 115	20	200.8
Potassium	< 0.05	12 (107 %R)		mg/L	9/6/12	85 - 115	20	200.8
Selenium	< 0.001	0.97 (97 %R)		mg/L	9/6/12	85 - 115	20	200.8
Silver	< 0.001	0.098 (98 %R)		mg/L	9/6/12	85 - 115	20	200.8
Sodium	< 5	12 (112 %R)		mg/L	9/7/12	85 - 115	20	200.8
Thallium	< 0.001	1.1 (105 %R)		mg/L	9/6/12	85 - 115	20	200.8
Vanadium	< 0.005	1.1 (114 %R)		mg/L	9/6/12	85 - 115	20	200.8
Zinc	< 0.005	0.96 (96 %R)		mg/L	9/6/12	85 - 115	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	113593.02	< 0.05	11 (99 %R)	11 (101 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Antimony	113593.02	< 0.001	1.1 (113 %R)	1.2 (116 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Arsenic	113593.02	0.017	1.0 (101 %R)	1.0 (101 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Barium	113593.02	0.18	1.3 (115 %R)	1.4 (119 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Beryllium	113593.02	< 0.001	0.77 (77 %R)	0.79 (79 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Calcium	113593.02	34	160 (111 %R)	160 (117 %R) (5 RPD)	mg/L	9/7/12	70-130	20	200.8
Cadmium	113593.02	< 0.001	1.1 (106 %R)	1.1 (111 %R) (5 RPD)	mg/L	9/6/12	70-130	20	200.8
Chromium	113593.02	< 0.001	1.0 (100 %R)	1.0 (102 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Copper	113593.02	< 0.001	0.84 (84 %R)	0.88 (88 %R) (5 RPD)	mg/L	9/6/12	70-130	20	200.8
Cobalt	113593.02	0.004	0.94 (94 %R)	0.97 (97 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Iron	113593.02	13	23 (88 %R)	23 (93 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Lead	113593.02	< 0.001	0.98 (98 %R)	1.0 (102 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Magnesium	113593.02	19	130 (99 %R)	130 (102 %R) (3 RPD)	mg/L	9/7/12	70-130	20	200.8
Manganese	113593.02	3.6	4.6 (98 %R)	4.7 (111 %R) (12 RPD)	mg/L	9/6/12	70-130	20	200.8
Mercury	113593.02	< 0.0001	0.0010 (95 %R)	0.0010 (97 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Nickel	113593.02	0.010	0.92 (91 %R)	0.95 (94 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Potassium	113593.02	20	30 (91 %R)	31 (95 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Selenium	113593.02	0.005	0.87 (86 %R)	0.84 (84 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Silver	113593.02	< 0.001	0.91 (91 %R)	0.90 (90 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Sodium	113593.02	89	200 (98 %R)	200 (100 %R) (2 RPD)	mg/L	9/7/12	70-130	20	200.8
Thallium	113593.02	< 0.001	0.99 (99 %R)	1.0 (104 %R) (5 RPD)	mg/L	9/6/12	70-130	20	200.8
Vanadium	113593.02	< 0.005	1.0 (100 %R)	1.0 (104 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Zinc	113593.02	< 0.005	0.78 (78 %R)	0.80 (80 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113593**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Iron	< 0.05	11 (103 %R)		mg/L	9/6/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (114 %R)		mg/L	9/6/12	85 - 115	20	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Iron	113593.02	13	22 (78 %R)	22 (81 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Manganese	113593.02	3.6	4.3 (67 %R)	4.4 (80 %R) (18 RPD)	mg/L	9/6/12	70-130	20	200.8

Aqueous Dissolved

Manganese MS low due to the high concentration of the QCParent near the Linear Range.

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

CHAIN-OF-CUSTODY RECORD

113593

23

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

				VOC				SVOC					TCLP	METALS		INORGANICS								MICRO		OTHER				
SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	524.2 524.2 BTEX 524.2 MTBE ONLY	8260B 624 VTICs 1, 4 DIOXANE EDB DBCP	8021B BTEX HALOS	8015B GRO MEGRO MAVPH	8270D 625 SVTICs ABN A BN PAH	TPH8100 L1 L2	8015B DRO MEDRO MAEPH	PEST 608 PCB 608 PEST 8081A PCB 8082	OIL & GREASE 1664 TPH 1664	TCLP 1311 ABN METALS VOC PEST HERB	DISSOLVED METALS (LIST BELOW)	TOTAL METALS (LIST BELOW)	TS TSS TDS SPEC. CON.	BR CL F SO_4 NO_2 NO_3 NO_3NO_2	BOD CBOD T. ALK.	TKN NH_3 T. PHOS. O. PHOS.	pH T. RES. CHLORINE	COD PHENOLS TOC DOC	TOTAL CYANIDE TOTAL SULFIDE	REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	TOTAL COLIFORM E. COLI FECAL COLIFORM	ENTEROCOCCI HETEROTROPHIC PLATE COUNT	1,4-Dioxane	Dis. Fe, Mn		# OF CONTAINERS	NOTES MEOH VIAL #
GW-BP-4-0812	8-28-12 / 13:30	GW	G												X											X			3	
GW-MW-55-0812	8-27-12 / 19:55	↓	↓		X										X											X	X		18	
GW-MW-55-DUP-0812	8-27-12 / 19:35				X										X											X	X		6	
GW-MW-5D-0812	8-27-12 / 18:00				X										X											X			5	
GW-MW-6-0812	8-27-12 / 14:30				X										X											X	X		6	
GW-MW-8-0812	8-27-12 / 12:40				X										X											X			5	
GW-MW-10-0812	8-28-12 / 12:48														X														1	
GW-OP-2-0812	8-27-12 / 19:55														X											X	X		4	
GW-GZ-123-0812	8-28-12 / 11:35				X										X												X		4	
GW-GZ-125-0812	8-28-12 / 9:45	↓	↓		X										X												X		4	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH					H										N											–	N			

PROJECT MANAGER: Kevin McKibben
COMPANY: Provan + Lorber, Inc.
ADDRESS: P.O. Box 389
CITY: Contoocook STATE: NH ZIP: 03229
PHONE: 603-746-3220 EXT.:
FAX: 746-5642
E-MAIL: kmckibben@provan-lorber.com
SITE NAME: Coakley Landfill
PROJECT #: P2081
STATE: (NH) MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1010152 PO #:

DATE NEEDED: Standard T.A.T.

QA/QC REPORTING LEVEL: Special
A B C
OR
PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS
NO FAX E-MAIL (PDF) EQUIS

TEMP. 1.3 °C
ICE? (YES) NO

SAMPLER(S): K. McKibben, C. Perron

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Kevin McKibben	8-28-12	15:25	Cyrus Perron
Cyrus Perron	8-28-12	4:55 pm	[signature]

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS: 23 TAL Metals
DISSOLVED METALS FIELD FILTERED? (YES) NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT) MS/MSD Samples supplied for GW-MW-55-0812
SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:

Page 2 of 2

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY 113593

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 BTEX	VOC: 524.2 MTBE ONLY	VOC: 8260B / 624 VTICS	VOC: 1,4 DIOXANE EDB DBCP	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MEGRO MAVPH	SVOC: 8270D 625 SVTICS	SVOC: ABN A BN PAH	SVOC: TPH8100 LI L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608	SVOC: PEST 8081A PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS	TCLP: VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: BR CL F SO4 NO2 NO3 NO2NO3	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN NH3 T. PHOS. O. PHOS.	INORGANICS: PH T. RES. CHLORINE	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: 1,4-DIOXANE	OTHER: DIS. FE, MN	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
GW-MW-5S-FB-0812	8-27-12 / 19:20	DW				X														X											X	X		6	
Equipment	8-28-12 / 14:30	DW				X														X											X	X		6	
Trip Blank						X																													2	
Trip Blank																																	X		2	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER						H															IV										-	IV			
PRESERVATIVE: H-HCL; N-HNO3; S-H2SO4; Na-NaOH; M-MEOH																																				

PROJECT MANAGER: Kevin McKibben
COMPANY: Provan + Lorber, Inc.
ADDRESS: P.O. Box 389
CITY: Contoocook STATE: NH ZIP: 03229
PHONE: 603-746-3220 EXT.:
FAX: 746-5642
E-MAIL:
SITE NAME: Coakley Landfill
PROJECT #: P2087
STATE: (NH) MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1010152 PO #:

DATE NEEDED: Standard T.A.T

QA/QC special
REPORTING LEVEL
A B C
OR
PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS
NO FAX E-MAIL (PDF) EQUIS

TEMP. 1-3 °C
ICE? (YES) NO

SAMPLER(S): K. McKibben, C. Perron

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Kevin McKibben	8-28-12	15:25	Cyrus Perron
Cyrus Perron	8-28-12	4:55pm	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS: 23 TAL Metals
DISSOLVED METALS FIELD FILTERED? (YES) NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:

eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMERSERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

24

Volatile Organics 8260B

Initial Calibration

IS/SS ID= V- 3965
Standard ID= V- 3968B
Gas Standard ID= V- 3971
LCS/LCSD and/or MS/MSD Standard ID= V- 3963 (L)
V-3970 (G) ★ICAL 3V1D0809★

Analyst: LSP

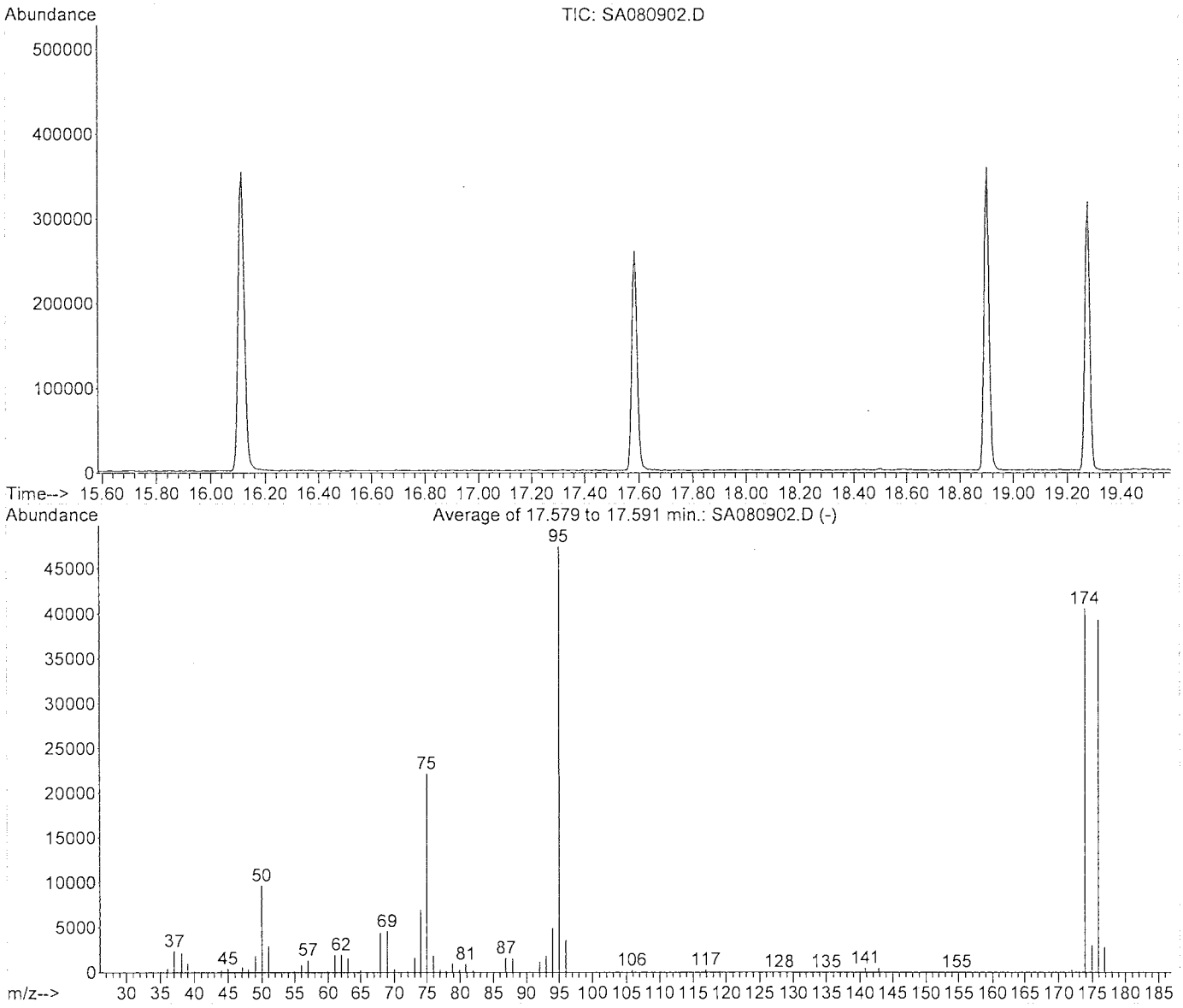
Date: 8/9/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	SA080901	Blank					VOCMS				
2	02	BFB					VOCMS	3V1D0809	Autofind BFB		
3	03	0.5 ~~STD~~ M/0.2G					VOCMS		0.2 G		
4	04	1 STD					VOCMS				
5	05	2 STD					VOCMS				
6	06	5 STD					VOCMS				
7	07	10 STD					VOCMS				
8	08	20 STD					VOCMS				
9	09	50 M					VOCMS				
10	10	100 M					VOCMS				
11	11	50 G					VOCMS				
12	12	200 M					VOCMS		COPY		
13	13	100 G					VOCMS				
14	14	200 G					VOCMS				
15	15	300 M					VOCMS				
16	16	300 G					VOCMS				
17	17	400 ~~K~~ G					VOCMS				
18	18	10 K					VOCMS		not used for ICAL, Ketones only. LSP		
19	19	20 K					VOCMS				
20	20	50 K					VOCMS				
21	21	100 K					VOCMS				
22	22	200 K					VOCMS				
23	23	300 K					VOCMS				
24	24	~~600 K~~ 500K LSP					VOCMS				
25	25	Blank					VOCMS	↓			
26	26						VOCMS				
27	27						VOCMS				
28	28						VOCMS				
29	29						VOCMS				
30	30						VOCMS				
31	31						VOCMS				
32	32						VOCMS				
							VOCMS				
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							VOCMS				
							VOCMS				
							~~VOCMS~~				

8/9/12 LSP

Samples removed from autosampler, order and pH verified by _____

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080902.D Vial: 2
Acq On : 9 Aug 2012 7:53 am Operator: KJP/VG
Sample : BFB Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3



AutoFind: Scans 2547, 2548, 2549; Background Corrected with Scan 2540

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	9705	PASS
75	95	30	60	46.8	22200	PASS
95	95	100	100	100.0	47448	PASS
96	95	5	9	7.6	3602	PASS
173	174	0.00	2	0.2	93	PASS
174	95	50	100	85.5	40565	PASS
175	174	5	9	7.4	3001	PASS
176	174	95	101	96.8	39285	PASS
177	176	5	9	7.2	2825	PASS

SA080902.D 3VID0809.M Tue Sep 11 08:14:36 2012

Response Factor Report VOAMS3

Method : 3VID0809.M

Title : VOAMS3

Last Update : Tue Aug 14 08:04:13 2012

Response via : Initial Calibration

Calibration Files

0.5	=	SA080903.D	1	=	SA080904.D	2	=	SA080905.D	5	=	SA080906.D
10	=	SA080907.D	20	=	SA080908.D	50	=	SA080909.D	100	=	SA080910.D
200	=	SA080912.D	300	=	SA080915.D	1G	=	SA080924.D	2G	=	SA050503.D
50G	=	SA080911.D	100G	=	SA080913.D	200G	=	SA080914.D	300G	=	SA080916.D
400G	=	SA080917.D									

	Compound	0.5	1	2	5	10	20	50	100	200	300	1G	2G	50G	100G	200G	300G	400G	AVG	%RSD	
1)	Fluorobenzene IS																				
2)	dichlorodifluoromethane	NA	0.381	0.511	0.438	0.465	0.472	NA	NA	NA	NA	NA	NA	0.446	0.459	0.465	0.473	0.457	0.457	7.22	ok
3) P	chloromethane	NA	0.729	0.642	0.611	0.545	0.497	NA	NA	NA	NA	NA	NA	0.502	0.506	0.510	0.489	0.490	0.552	14.82	ok
4) C	vinyl chloride	0.273	0.381	0.405	0.460	0.393	0.359	NA	NA	NA	NA	NA	NA	0.374	0.367	NA	NA	NA	0.376	13.93	ok
5)	bromomethane	NA	0.171	0.151	0.186	0.183	0.159	NA	NA	NA	NA	NA	NA	0.167	0.186	0.187	0.156	0.147	0.169	9.12	ok
6)	chloroethane	NA	0.197	0.235	0.239	0.229	0.198	NA	NA	NA	NA	NA	NA	0.208	0.233	0.214	NA	NA	0.219	7.76	ok
7)	trichlorofluoromethane	NA	0.643	0.652	0.668	0.667	0.578	NA	NA	NA	NA	NA	NA	0.599	0.611	0.601	NA	NA	0.628	5.49	ok
8)	diethyl ether	0.307	0.297	0.281	0.307	0.294	0.241	0.292	0.284	0.271	0.267	NA	NA	NA	NA	NA	NA	NA	0.284	7.16	ok
9)	1,1,2-Trichlorotrifluoroethane	0.468	0.474	0.455	0.473	0.482	0.421	0.465	0.461	0.430	0.424	NA	NA	NA	NA	NA	NA	NA	0.455	4.92	ok
10)	acrolein	NA	0.104	0.100	0.098	0.098	0.084	NA	NA	NA	NA	NA	NA	0.092	0.089	0.089	0.082	0.088	0.092	7.96	ok
11)	acetone	NA	NA	0.213	0.264	0.262	0.217	0.197	0.198	0.193	NA	NA	NA	NA	NA	NA	NA	NA	0.221	13.78	ok
12) C	1,1-dichloroethene	0.379	0.386	0.365	0.390	0.390	0.345	0.372	0.376	0.345	0.337	NA	NA	NA	NA	NA	NA	NA	0.369	5.32	ok
13)	tert-Butyl Alcohol(TBA)	NA	NA	0.035	0.042	0.041	0.040	0.048	0.045	0.045	0.044	NA	NA	NA	NA	NA	NA	NA	0.043	8.91	ok
14)	iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
15)	methylene chloride	0.457	0.424	0.387	0.398	0.386	0.379	0.379	0.370	0.343	0.340	NA	NA	NA	NA	NA	NA	NA	0.386	9.02	ok
16)	carbon disulfide	1.305	1.111	0.968	1.013	1.024	0.979	1.014	1.009	0.938	0.911	NA	NA	NA	NA	NA	NA	NA	1.027	10.87	ok
17)	acrylonitrile	NA	0.205	0.172	0.199	0.197	0.201	0.202	0.200	0.190	0.184	NA	NA	NA	NA	NA	NA	NA	0.195	5.38	ok
18)	Methyl-t-butyl ether(MTBE)	0.836	0.841	0.764	0.841	0.906	0.877	0.901	0.914	0.867	0.851	NA	NA	NA	NA	NA	NA	NA	0.860	5.14	ok
19)	trans-1,2-dichloroethene	0.401	0.393	0.365	0.405	0.402	0.386	0.396	0.396	0.370	0.363	NA	NA	NA	NA	NA	NA	NA	0.388	4.11	ok
20)	hexane	NA	0.488	0.443	0.502	0.497	0.501	0.502	0.512	0.491	0.481	NA	NA	NA	NA	NA	NA	NA	0.491	4.10	ok
21)	Isopropyl ether(DIPE)	1.381	1.275	1.243	1.406	1.439	1.386	1.486	1.486	1.410	1.364	NA	NA	NA	NA	NA	NA	NA	1.387	5.74	ok
22)	vinyl acetate	NA	NA	0.342	0.364	0.436	0.474	NA	NA	NA	NA	NA	NA	0.565	0.620	0.711	0.719	0.765	0.555	28.64	#
23) P	1,1-dichloroethane	0.782	0.749	0.698	0.797	0.812	0.782	0.790	0.800	0.754	0.744	NA	NA	NA	NA	NA	NA	NA	0.771	4.46	ok

(#) = Out of Range

Response Factor Report VOAMS3

Method : 3VID0809.M
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration

Calibration Files

0.5	=	SA080903.D	1	=	SA080904.D	2	=	SA080905.D	5	=	SA080906.D
10	=	SA080907.D	20	=	SA080908.D	50	=	SA080909.D	100	=	SA080910.D
200	=	SA080912.D	300	=	SA080915.D	1G	=	SA080924.D	2G	=	SA050503.D
50G	=	SA080911.D	100G	=	SA080913.D	200G	=	SA080914.D	300G	=	SA080916.D
400G	=	SA080917.D									

	Compound	0.5	1	2	5	10	20	50	100	200	300	1G	20G	50G	100G	200G	300G	400G	AVG	%RSD	
24)	Ethyl-t-butyl ether(ETBE)	NA	0.846	0.752	0.840	0.940	0.967	0.985	1.048	1.043	1.076	NA	NA	NA	NA	NA	NA	NA	0.944	11.71	ok
25)	2,2-dichloropropane	0.437	0.487	0.434	0.457	0.528	0.540	0.550	0.587	0.580	0.590	NA	NA	NA	NA	NA	NA	NA	0.519	11.79	ok
26)	cis-1,2-dichloroethene	0.385	0.423	0.379	0.406	0.416	0.393	0.410	0.410	0.381	0.377	NA	NA	NA	NA	NA	NA	NA	0.398	4.26	ok
27)	2-butanone(MEK)	NA	NA	0.206	0.222	0.228	0.232	0.232	0.231	0.224	0.200	NA	NA	NA	NA	NA	NA	NA	0.222	5.56	ok
28)	bromochloromethane	0.225	0.221	0.211	0.218	0.220	0.211	0.219	0.218	0.206	0.204	NA	NA	NA	NA	NA	NA	NA	0.215	3.20	ok
29)	Tetrahydrofuran(THF)	NA	NA	0.106	0.114	0.115	0.124	0.134	0.138	0.135	0.132	NA	NA	NA	NA	NA	NA	NA	0.125	9.47	ok
30) C	chloroform	0.821	0.813	0.751	0.767	0.777	0.733	0.755	0.753	0.705	0.698	NA	NA	NA	NA	NA	NA	NA	0.757	5.31	ok
31)	SS Dibromofluoromethane_MS	0.274	0.259	0.259	0.270	0.268	0.269	0.260	0.259	0.265	0.252	NA	NA	0.264	0.264	0.254	0.263	0.264	0.263	2.28	ok
32)	1,1,1-trichloroethane	0.652	0.704	0.624	0.674	0.688	0.663	0.684	0.708	0.669	0.664	NA	NA	NA	NA	NA	NA	NA	0.673	3.70	ok
33)	carbon tetrachloride	0.503	0.596	0.556	0.609	0.646	0.635	0.657	0.683	0.638	0.635	NA	NA	NA	NA	NA	NA	NA	0.616	8.56	ok
34)	1,1-dichloropropene	0.435	0.463	0.442	0.501	0.546	0.533	0.559	0.568	0.536	0.522	NA	NA	NA	NA	NA	NA	NA	0.510	9.46	ok
35)	SS 1,2-DCA-d4_MS	0.268	0.243	0.246	0.260	0.267	0.265	0.237	0.236	0.256	0.229	NA	NA	0.250	0.234	0.230	0.251	0.252	0.248	5.27	ok
36)	tert-amyl methyl ether(TAME)	NA	0.580	0.533	0.582	0.673	0.696	0.716	0.768	0.775	0.796	NA	NA	NA	NA	NA	NA	NA	0.680	14.05	ok
37)	benzene	1.502	1.426	1.287	1.409	1.414	1.341	1.370	1.349	1.239	1.198	NA	NA	NA	NA	NA	NA	NA	1.354	6.80	ok
38)	1,2-dichloroethane	0.631	0.680	0.608	0.674	0.684	0.642	0.663	0.642	0.600	0.583	NA	NA	NA	NA	NA	NA	NA	0.641	5.49	ok
39)	trichloroethene	0.444	0.431	0.419	0.418	0.432	0.425	0.437	0.434	0.401	0.391	NA	NA	NA	NA	NA	NA	NA	0.423	3.89	ok
40) C	1,2-dichloropropane	0.372	0.360	0.329	0.374	0.393	0.378	0.401	0.402	0.378	0.373	NA	NA	NA	NA	NA	NA	NA	0.376	5.66	ok
41)	1,4-dioxaneV	NA	NA	NA	NA	0.002	0.003	NA	NA	NA	NA	NA	NA	0.004	0.004	0.004	0.004	0.004	0.004	20.55	#
42)	dibromomethane	0.234	0.246	0.222	0.246	0.257	0.237	0.250	0.245	0.227	0.224	NA	NA	NA	NA	NA	NA	NA	0.239	4.96	ok
43)	bromodichloromethane	0.478	0.486	0.484	0.527	0.534	0.525	0.567	0.566	0.531	0.531	NA	NA	NA	NA	NA	NA	NA	0.523	6.00	ok
44)	2-Chloroethoxyethene	NA	0.061	0.065	0.067	0.091	0.104	NA	NA	NA	NA	NA	NA	0.095	0.118	0.127	0.143	0.141	0.101	30.68	#
45)	4-methyl-2-pentanone(MIBK)	NA	NA	0.098	0.121	0.134	0.140	0.148	0.150	0.144	0.142	NA	NA	NA	NA	NA	NA	NA	0.135	12.91	ok

(#) = Out of Range

Response Factor Report VOAMS3

Method : 3VID0809.M
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration

Calibration Files

0.5	=	SA080903.D	1	=	SA080904.D	2	=	SA080905.D	5	=	SA080906.D
10	=	SA080907.D	20	=	SA080908.D	50	=	SA080909.D	100	=	SA080910.D
200	=	SA080912.D	300	=	SA080915.D	1G	=	SA080924.D	2G	=	SA050503.D
50G	=	SA080911.D	100G	=	SA080913.D	200G	=	SA080914.D	300G	=	SA080916.D
400G	=	SA080917.D									

	Compound	0.5	1	2	5	10	20	50	100	200	300	1G	20G	50G	100G	200G	300G	400G	AVG	%RSD	
46)	cis-1,3-dichloropropene	0.4	0	0	0	1	1	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	0.484	14.03	ok
47)	Chlorobenzene-D5 IS																				
48)	SS Toluene-d8_MS	1.329	1.393	1.414	1.360	1.351	1.362	1.363	1.376	1.346	1.326	NA	NA	1.404	1.393	1.402	1.351	1.334	1.367	2.09	ok
49) C	toluene	2.066	2.298	2.092	2.152	2.175	2.136	2.146	2.072	1.815	1.717	NA	NA	NA	NA	NA	NA	NA	2.067	8.39	ok
50)	trans-1,3-dichloropropene	0.456	0.556	0.532	0.565	0.654	0.686	0.757	0.779	0.738	0.723	NA	NA	NA	NA	NA	NA	NA	0.645	17.13	#
51)	1,1,2-trichloroethane	0.372	0.369	0.349	0.378	0.376	0.361	0.366	0.362	0.328	0.316	NA	NA	NA	NA	NA	NA	NA	0.358	5.84	ok
52)	2-hexanone	NA	NA	0.294	0.407	0.420	0.433	0.448	0.436	0.413	0.379	NA	NA	NA	NA	NA	NA	NA	0.404	12.12	ok
53)	tetrachloroethene	0.625	0.735	0.657	0.675	0.686	0.679	0.673	0.664	0.598	0.575	NA	NA	NA	NA	NA	NA	NA	0.657	7.06	ok
54)	1,3-dichloropropane	0.700	0.787	0.720	0.754	0.750	0.737	0.764	0.757	0.687	0.661	NA	NA	NA	NA	NA	NA	NA	0.732	5.35	ok
55)	dibromochloromethane	0.487	0.566	0.497	0.556	0.592	0.600	0.635	0.635	0.591	0.578	NA	NA	NA	NA	NA	NA	NA	0.574	8.74	ok
56)	1,2-dibromoethane	0.487	0.543	0.468	0.514	0.525	0.515	0.537	0.534	0.489	0.465	NA	NA	NA	NA	NA	NA	NA	0.508	5.63	ok
57) P	chlorobenzene	1.572	1.686	1.559	1.609	1.584	1.551	1.576	1.519	1.324	1.233	NA	NA	NA	NA	NA	NA	NA	1.521	9.00	ok
58)	1,1,1,2-tetrachloroethane	0.537	0.595	0.543	0.577	0.592	0.587	0.587	0.572	0.499	0.465	NA	NA	NA	NA	NA	NA	NA	0.556	7.95	ok
59) C	ethylbenzene	2.234	2.512	2.338	2.469	2.559	2.539	2.471	2.329	1.949	1.735	NA	NA	NA	NA	NA	NA	NA	2.313	11.83	ok
60)	mp-xylene	0.880	1.002	0.961	1.023	1.016	0.974	0.959	0.897	0.765	0.697	NA	NA	NA	NA	NA	NA	NA	0.917	11.96	ok
61)	o-xylene	0.773	0.883	0.823	0.930	0.959	0.962	0.941	0.937	0.815	0.777	NA	NA	NA	NA	NA	NA	NA	0.880	8.64	ok
62)	styrene	1.206	1.403	1.363	1.507	1.525	1.485	1.513	1.425	1.283	1.182	NA	NA	NA	NA	NA	NA	NA	1.389	9.19	ok
63) P	bromoform	0.267	0.342	0.332	0.367	0.376	0.388	0.419	0.419	0.398	0.385	NA	NA	NA	NA	NA	NA	NA	0.369	12.41	ok
64)	iso-propylbenzene	1.868	2.092	2.082	2.268	2.334	2.313	2.266	2.241	1.892	NA	NA	NA	NA	NA	NA	NA	NA	2.151	8.22	ok
65)	SS 4-BFB_MS	0.441	0.432	0.436	0.464	0.444	0.460	0.439	0.449	0.449	0.447	NA	NA	0.439	0.427	0.418	0.443	0.432	0.441	2.69	ok
66)	1,4-Dichlorobenzene-D4 IS																				
67)	bromobenzene	1.549	1.678	1.482	1.509	1.509	1.429	1.517	1.469	1.276	1.310	NA	NA	NA	NA	NA	NA	NA	1.473	7.82	ok

(#) = Out of Range

Response Factor Report VOAMS3

Method : 3VID0809.M

Title : VOAMS3

Last Update : Tue Aug 14 08:04:13 2012

Response via : Initial Calibration

Calibration Files

0.5	=	SA080903.D	1	=	SA080904.D	2	=	SA080905.D	5	=	SA080906.D
10	=	SA080907.D	20	=	SA080908.D	50	=	SA080909.D	100	=	SA080910.D
200	=	SA080912.D	300	=	SA080915.D	1G	=	SA080924.D	2G	=	SA050503.D
50G	=	SA080911.D	100G	=	SA080913.D	200G	=	SA080914.D	300G	=	SA080916.D
400G	=	SA080917.D									

	Compound	0.5	1	2	5	10	20	50	100	200	300	1G	20G	50G	100G	200G	300G	400G	AVG	%RSD	
68) P	1,1,2,2-tetrachloroethane	1.254	1.380	1.218	1.263	1.260	1.208	1.270	1.252	1.147	1.177	NA	NA	NA	NA	NA	NA	NA	1.243	5.08	ok
69)	1,2,3-trichloropropane	0.4	1	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	0.437	8.11	ok
70)	t-1,4-dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
71)	n-propylbenzene	5.383	6.187	5.768	6.272	6.363	6.112	6.299	5.976	4.862	4.612	NA	NA	NA	NA	NA	NA	NA	5.783	10.83	ok
72)	2-chlorotoluene	4.357	4.403	3.972	3.993	4.011	3.810	4.003	3.719	3.260	3.201	NA	NA	NA	NA	NA	NA	NA	3.873	10.29	ok
73)	4-chlorotoluene	3.719	4.213	4.091	4.205	4.221	3.933	4.232	4.032	3.292	3.230	NA	NA	NA	NA	NA	NA	NA	3.917	9.73	ok
74)	1,3,5-trimethylbenzene	3.773	4.259	4.031	4.490	4.533	4.364	4.469	4.333	3.662	3.542	NA	NA	NA	NA	NA	NA	NA	4.146	8.88	ok
75)	tert-butylbenzene	3.056	3.553	3.244	3.788	3.991	3.614	3.667	3.744	3.311	3.233	NA	NA	NA	NA	NA	NA	NA	3.520	8.43	ok
76)	1,2,4-trimethylbenzene	3.996	4.415	4.292	4.710	4.758	4.410	4.557	4.444	3.659	3.552	NA	NA	NA	NA	NA	NA	NA	4.279	9.69	ok
77)	sec-butylbenzene	4.103	5.178	4.937	5.319	5.517	5.024	5.043	4.951	4.228	4.050	NA	NA	NA	NA	NA	NA	NA	4.835	10.77	ok
78)	1,3-dichlorobenzeneV	2.565	2.987	2.600	2.732	2.688	2.554	2.668	2.600	2.196	2.148	NA	NA	NA	NA	NA	NA	NA	2.574	9.55	ok
79)	p-isopropyltoluene	3.433	4.298	4.025	4.618	4.625	4.412	4.456	4.362	3.676	3.549	NA	NA	NA	NA	NA	NA	NA	4.145	10.75	ok
80)	1,4-dichlorobenzeneV	2.982	2.981	2.661	2.747	2.695	2.554	2.681	2.610	2.198	2.126	NA	NA	NA	NA	NA	NA	NA	2.623	10.75	ok
81)	1,2-dichlorobenzeneV	2.538	2.820	2.475	2.521	2.539	2.370	2.478	2.417	2.060	2.015	NA	NA	NA	NA	NA	NA	NA	2.423	9.73	ok
82)	n-butylbenzene	3.216	3.586	3.314	3.903	4.004	3.758	3.813	3.695	3.143	2.994	NA	NA	NA	NA	NA	NA	NA	3.543	9.90	ok
83)	SS 1,2-DCB-d4_MS	0.838	0.832	0.830	0.840	0.839	0.823	0.833	0.806	0.836	0.827	NA	NA	0.860	0.842	0.887	0.811	0.847	0.837	2.32	ok
84)	1,2-dibromo-3-chloropropane	0.241	0.271	0.211	0.234	0.261	0.246	0.256	0.276	0.270	0.280	NA	NA	NA	NA	NA	NA	NA	0.255	8.46	ok
85)	1,3,5-trichlorobenzV	1.396	1.669	1.432	1.520	1.551	1.474	1.434	1.457	1.271	1.312	NA	NA	NA	NA	NA	NA	NA	1.452	7.90	ok
86)	1,2,4-trichlorobenzV	1.348	1.349	1.186	1.307	1.432	1.337	1.330	1.331	1.185	1.201	NA	NA	NA	NA	NA	NA	NA	1.301	6.35	ok
87)	hexachlorobutadieneV	0.684	0.712	0.618	0.672	0.683	0.544	0.444	0.452	0.440	NA	NA	NA	NA	NA	NA	NA	NA	0.583	19.57	#
88)	naphthaleneV	3.093	3.301	3.060	3.558	3.957	3.575	3.567	3.572	3.135	3.020	NA	NA	NA	NA	NA	NA	NA	3.384	9.11	ok
89)	1,2,3-trichlorobenzV	1.099	1.328	1.144	1.274	1.280	1.117	1.043	1.028	0.971	1.009	NA	NA	NA	NA	NA	NA	NA	1.129	11.11	ok
90)	SS 2,5-DBT_MS	0.360	0.281	0.276	0.324	0.337	0.287	0.267	0.266	0.277	-84.574	NA	NA	NA	NA	NA	NA	NA	-8.190	11.50	ok

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG09812\SA080903.D Vial: 3
Acq On : 9 Aug 2012 8:31 am Operator: KJP/VG
Sample : 0.2 G/0.5 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:18 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.10	96	279247	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.11	117	194133	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.90	152	88661	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.24	111	76517	10.42	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.20%			
35) SS 1,2-DCA-d4_MS	10.37	65	74956	10.84	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.36%			
48) SS Toluene-d8_MS	14.01	98	258038	9.70	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.97%			
65) SS 4-BFB_MS	17.59	95	85645	9.98	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.85%			
83) SS 1,2-DCB-d4_MS	19.28	152	74287	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
90) SS 2,5-DBT_MS	22.59	250	1596	0.61	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 1.51%#			
Target Compounds						Qvalue
4) vinyl chloride	2.85	62	1522	0.146	ug/L	88
8) diethyl ether	4.30	59	4284	0.540	ug/L	89
9) 1,1,2-Trichlorotrifluoroet	4.51	101	6533	0.514	ug/L #	31
12) 1,1-dichloroethene	4.82	96	5290	0.515	ug/L	92
15) methylene chloride	5.70	84	6377	0.603	ug/L #	90
16) carbon disulfide	5.71	76	18226	0.655	ug/L	100
17) acrylonitrile	5.97	53	2459	0.453	ug/L	95
18) Methyl-t-butyl ether(MTBE)	6.00	73	23354	0.973	ug/L #	90
19) trans-1,2-dichloroethene	6.27	96	5602	0.517	ug/L	85
21) Isopropyl ether(DIPE)	6.93	45	19284	0.498	ug/L	91
23) 1,1-dichloroethane	7.13	63	10912	0.507	ug/L	75
24) Ethyl-t-butyl ether(ETBE)	7.76	59	11093m	0.428	ug/L	
25) 2,2-dichloropropane	8.31	77	6095	0.421	ug/L	94
26) cis-1,2-dichloroethene	8.42	96	5380	0.484	ug/L #	68
28) bromochloromethane	9.12	128	3141	0.523	ug/L	95
30) chloroform	8.77	83	11459	0.542	ug/L	89
32) 1,1,1-trichloroethane	9.64	97	9108	0.485	ug/L #	82
33) carbon tetrachloride	10.19	117	7024	0.409	ug/L #	79
34) 1,1-dichloropropene	9.98	75	6071	0.426	ug/L	93
37) benzene	10.59	78	20977	0.555	ug/L	97
38) 1,2-dichloroethane	10.58	62	8815	0.493	ug/L	95
39) trichloroethene	11.94	95	6195	0.524	ug/L	88
40) 1,2-dichloropropane	12.30	63	5196	0.495	ug/L	84
42) dibromomethane	12.81	93	3269	0.490	ug/L	92
43) bromodichloromethane	12.72	83	6678	0.457	ug/L	88
45) 4-methyl-2-pentanone(MIBK)	13.35	58	1208	0.321	ug/L #	40
46) cis-1,3-dichloropropene	13.65	75	5194	0.423	ug/L	86
49) toluene	14.14	91	20056	0.500	ug/L	93
50) trans-1,3-dichloropropene	14.43	75	4425	0.354	ug/L	96
51) 1,1,2-trichloroethane	14.64	83	3610	0.520	ug/L	87
53) tetrachloroethene	15.06	166	6069	0.476	ug/L	87
54) 1,3-dichloropropane	15.00	76	6792	0.478	ug/L #	59
55) dibromochloromethane	15.35	129	4730	0.425	ug/L	82

(#) = qualifier out of range (m) = manual integration
SA080903.D 3VID0809.M Tue Sep 11 15:02:51 2012

Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG09812\SA080903.D Vial: 3
Acq On : 9 Aug 2012 8:31 am Operator: KJP/VG
Sample : 0.2 G/0.5 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:18 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

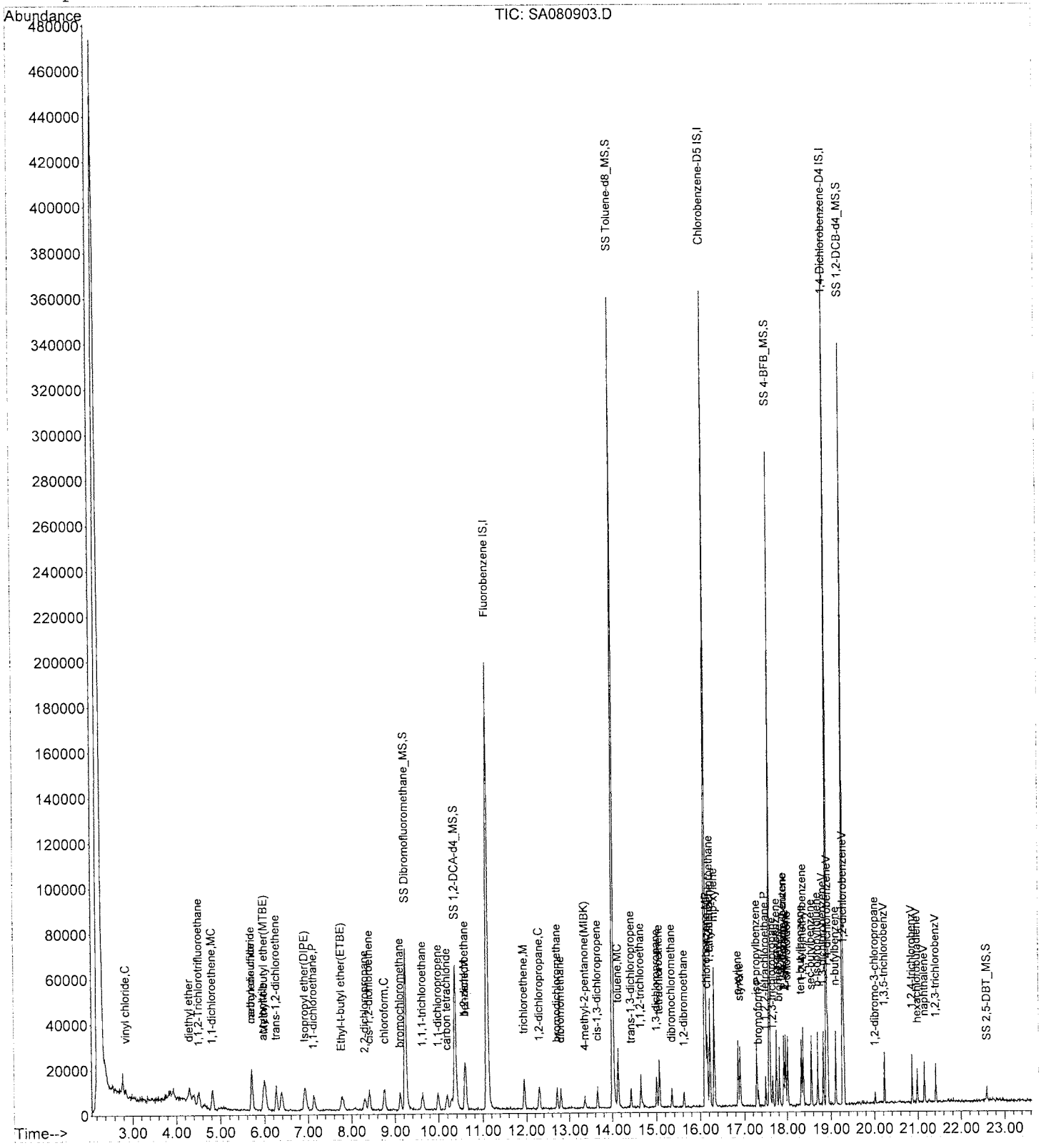
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56) 1,2-dibromoethane	15.62	107	4727	0.479	ug/L		92
57) chlorobenzene	16.16	112	15262	0.517	ug/L		98
58) 1,1,1,2-tetrachloroethane	16.21	131	5210	0.483	ug/L		91
59) ethylbenzene	16.22	91	21685	0.483	ug/L		99
60) mp-xylene	16.32	106	17085	0.959	ug/L		97
61) o-xylene	16.86	106	7502	0.439	ug/L	#	78
62) styrene	16.91	104	11706	0.436	ug/L		95
63) bromoform	17.32	173	2595	0.362	ug/L		76
64) iso-propylbenzene	17.28	105	18129	0.443	ug/L		94
67) bromobenzene	17.82	156	6866	0.526	ug/L	#	72
68) 1,1,2,2-tetrachloroethane	17.49	83	5560	0.505	ug/L		87
69) 1,2,3-trichloropropane	17.67	110	1881	0.486	ug/L		79
70) t-1,4-dichloro-2-butene	17.91	53	362	1.155	ug/L	#	4
71) n-propylbenzene	17.74	91	23862	0.465	ug/L		100
72) 2-chlorotoluene	17.96	91	19314	0.562	ug/L		89
73) 4-chlorotoluene	18.02	91	16488	0.475	ug/L		99
74) 1,3,5-trimethylbenzene	17.92	105	16725	0.455	ug/L		95
75) tert-butylbenzene	18.32	119	13548	0.434	ug/L		92
76) 1,2,4-trimethylbenzene	18.37	105	17714	0.467	ug/L		93
77) sec-butylbenzene	18.56	105	18190	0.424	ug/L		93
78) 1,3-dichlorobenzeneV	18.83	146	11372	0.498	ug/L		91
79) p-isopropyltoluene	18.70	119	15218	0.414	ug/L		93
80) 1,4-dichlorobenzeneV	18.93	146	13218	0.568	ug/L		96
81) 1,2-dichlorobenzeneV	19.30	146	11251	0.524	ug/L		93
82) n-butylbenzene	19.11	91	14255	0.454	ug/L		98
84) 1,2-dibromo-3-chloropropan	20.01	75	1069	0.471	ug/L	#	81
85) 1,3,5-trichlorobenzV	20.23	180	6188	0.481	ug/L		82
86) 1,2,4-trichlorobenzV	20.86	180	5975	0.518	ug/L		83
87) hexachlorobutadieneV	20.99	225	3030	0.595	ug/L		94
88) naphthaleneV	21.16	128	13712	0.457	ug/L		97
89) 1,2,3-trichlorobenzV	21.42	180	4873	0.487	ug/L		88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG09812\SA080903.D Vial: 3
Acq On : 9 Aug 2012 8:31 am Operator: KJP/VG
Sample : 0.2 G/0.5 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:59 2012 Quant Results File: 3VID0809.RES

Method : P:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080904.D Vial: 4
Acq On : 9 Aug 2012 9:01 am Operator: KJP/VG
Sample : 1 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:22 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.109	96	262917	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.114	117	171923	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.899	152	77019	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.236	111	68217	9.867 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.670%		
35) SS 1,2-DCA-d4_MS	10.373	65	63882	9.809 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.090%		
48) SS Toluene-d8_MS	14.016	98	239474	10.162 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.620%		
65) SS 4-BFB_MS	17.586	95	74189	9.766 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.660%		
83) SS 1,2-DCB-d4_MS	19.276	152	64102	9.933 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.330%		
90) SS 2,5-DBT_MS	22.590	250	2168	0.946 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 2.365%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.425	85	10010m	0.859 ug/L	
3) chloromethane	2.705	50	19163m	1.321 ug/L	
4) vinyl chloride	2.850	62	10017m	1.018 ug/L	
5) bromomethane	3.410	94	4504	0.988 ug/L	96
6) chloroethane	3.519	64	5178	0.941 ug/L	96
7) trichlorofluoromethane	3.860	101	16905	1.025 ug/L	99
8) diethyl ether	4.304	59	7808	1.046 ug/L	82
9) 1,1,2-Trichlorotrifluoroet	4.511	101	12461	1.041 ug/L	98
10) acrolein	4.517	56	2727	1.101 ug/L	85
12) 1,1-dichloroethene	4.815	96	10148	1.048 ug/L	89
13) tert-Butyl Alcohol(TBA)	4.979	59	4890m	4.342 ug/L	
15) methylene chloride	5.697	84	11156	1.121 ug/L	95
16) carbon disulfide	5.715	76	29202	1.115 ug/L	91
17) acrylonitrile	5.976	53	5382m	1.052 ug/L	
18) Methyl-t-butyl ether(MTBE)	6.007	73	44240	1.957 ug/L #	93
19) trans-1,2-dichloroethene	6.274	96	10344	1.015 ug/L	94
20) hexane	6.384	57	12821	0.994 ug/L #	96
21) Isopropyl ether(DIPE)	6.931	45	33518	0.919 ug/L	92
22) vinyl acetate	7.174	43	9799	0.768 ug/L #	83
23) 1,1-dichloroethane	7.126	63	19698	0.972 ug/L	95
24) Ethyl-t-butyl ether(ETBE)	7.789	59	22251	0.911 ug/L	98
25) 2,2-dichloropropane	8.305	77	12805	0.939 ug/L	96
26) cis-1,2-dichloroethene	8.415	96	11118	1.062 ug/L	90
28) bromochloromethane	9.114	128	5808	1.026 ug/L #	87
30) chloroform	8.749	83	21368	1.073 ug/L	86
32) 1,1,1-trichloroethane	9.631	97	18514	1.046 ug/L	94
33) carbon tetrachloride	10.185	117	15671	0.968 ug/L	85
34) 1,1-dichloropropene	9.990	75	12160	0.906 ug/L	92
36) tert-amyl methyl ether(TAM	10.294	73	15252	0.875 ug/L #	73
37) benzene	10.592	78	37486	1.053 ug/L	96
38) 1,2-dichloroethane	10.586	62	17876	1.061 ug/L	98
39) trichloroethene	11.942	95	11320	1.017 ug/L	95
40) 1,2-dichloropropane	12.295	63	9470	0.958 ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080904.D Vial: 4
Acq On : 9 Aug 2012 9:01 am Operator: KJP/VG
Sample : 1 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:22 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

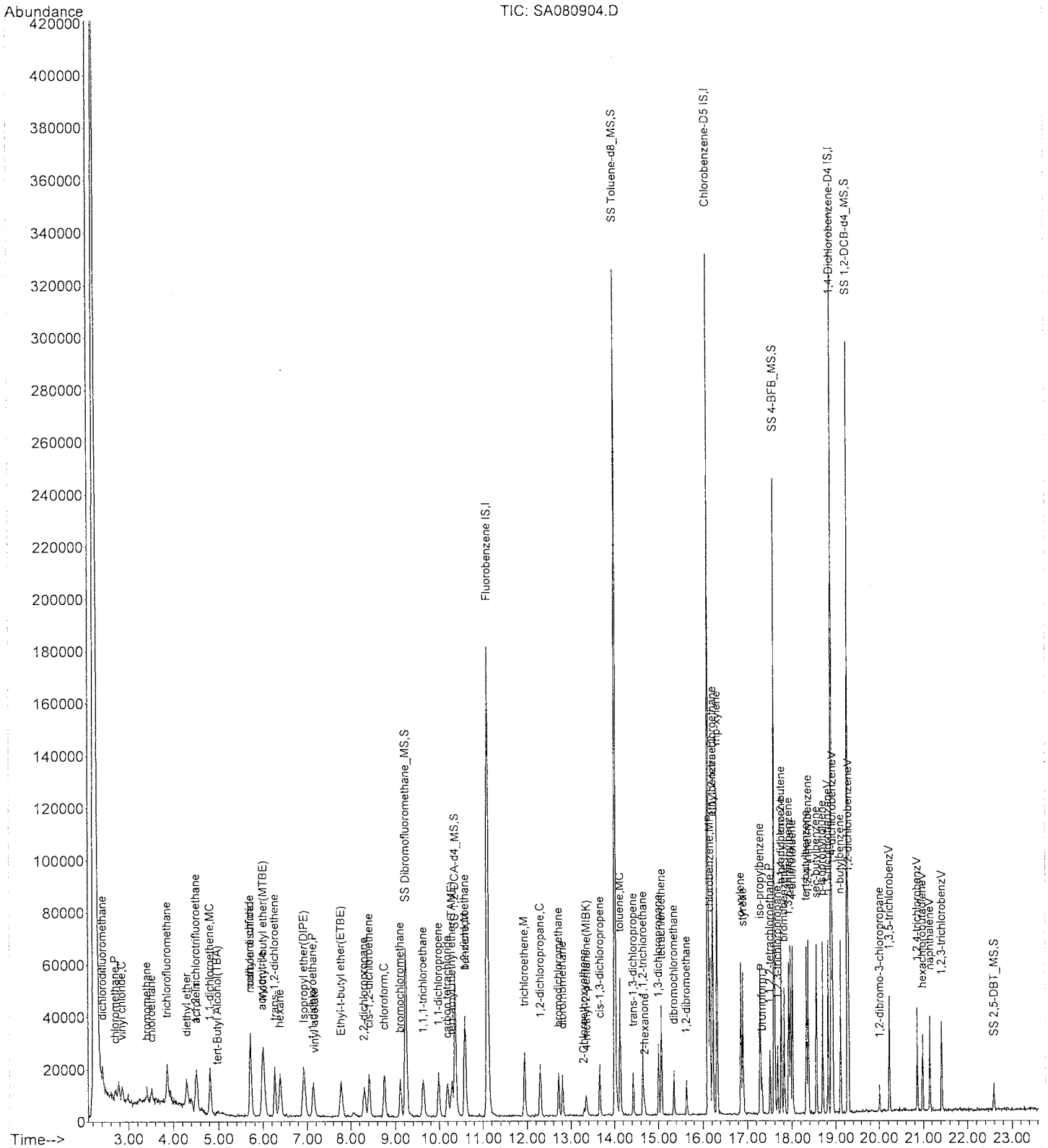
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	dibromomethane	12.812	93	6457	1.029	ug/L		94
43)	bromodichloromethane	12.714	83	12789	0.930	ug/L		88
44)	2-Chloroethoxyethene	13.286	63	1600	0.669	ug/L	#	78
45)	4-methyl-2-pentanone(MIBK)	13.359	58	2574	0.726	ug/L	#	74
46)	cis-1,3-dichloropropene	13.657	75	11296	0.977	ug/L		95
49)	toluene	14.137	91	39511	1.112	ug/L		97
50)	trans-1,3-dichloropropene	14.423	75	9565	0.863	ug/L		97
51)	1,1,2-trichloroethane	14.648	83	6350	1.033	ug/L		94
52)	2-hexanone	14.685	43	4950	0.758	ug/L	#	92
53)	tetrachloroethene	15.068	166	12634	1.119	ug/L		91
54)	1,3-dichloropropane	15.007	76	13534	1.076	ug/L		96
55)	dibromochloromethane	15.354	129	9724	0.986	ug/L		99
56)	1,2-dibromoethane	15.627	107	9329	1.069	ug/L		99
57)	chlorobenzene	16.163	112	28982	1.108	ug/L		92
58)	1,1,1,2-tetrachloroethane	16.217	131	10231	1.071	ug/L		99
59)	ethylbenzene	16.223	91	43182	1.086	ug/L		96
60)	mp-xylene	16.321	106	34454	2.184	ug/L		91
61)	o-xylene	16.856	106	15183	1.003	ug/L		96
62)	styrene	16.904	104	24126	1.014	ug/L		97
63)	bromoform	17.324	173	5888	0.927	ug/L		96
64)	iso-propylbenzene	17.281	105	35967	0.993	ug/L		89
67)	bromobenzene	17.817	156	12921	1.139	ug/L		94
68)	1,1,2,2-tetrachloroethane	17.494	83	10629	1.110	ug/L		94
69)	1,2,3-trichloropropane	17.665	110	3988	1.186	ug/L		82
70)	t-1,4-dichloro-2-butene	17.750	53	86	0.316	ug/L	#	1
71)	n-propylbenzene	17.750	91	47653	1.070	ug/L		90
72)	2-chlorotoluene	17.963	91	33910	1.137	ug/L		97
73)	4-chlorotoluene	18.017	91	32446	1.076	ug/L		96
74)	1,3,5-trimethylbenzene	17.926	105	32806	1.027	ug/L		98
75)	tert-butylbenzene	18.327	119	27366	1.009	ug/L		87
76)	1,2,4-trimethylbenzene	18.370	105	34001	1.032	ug/L		93
77)	sec-butylbenzene	18.559	105	39878	1.071	ug/L		99
78)	1,3-dichlorobenzeneV	18.826	146	23007	1.161	ug/L		96
79)	p-isopropyltoluene	18.698	119	33101	1.037	ug/L		94
80)	1,4-dichlorobenzeneV	18.930	146	22958	1.136	ug/L		95
81)	1,2-dichlorobenzeneV	19.300	146	21716	1.164	ug/L		96
82)	n-butylbenzene	19.112	91	27620	1.012	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.018	75	2086	1.058	ug/L		90
85)	1,3,5-trichlorobenzV	20.231	180	12855	1.150	ug/L		87
86)	1,2,4-trichlorobenzV	20.857	180	10393	1.037	ug/L		91
87)	hexachlorobutadieneV	20.979	225	5487	1.241	ug/L		93
88)	naphthaleneV	21.155	128	25427	0.976	ug/L		97
89)	1,2,3-trichlorobenzV	21.417	180	10230	1.176	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080904.D Vial: 4
Acq On : 9 Aug 2012 9:01 am Operator: KJP/VG
Sample : 1 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:00 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080905.D Vial: 5
Acq On : 9 Aug 2012 9:32 am Operator: KJP/VG
Sample : 2 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:26 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	258771	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	172009	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	79057	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.240	111	66930	9.836 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.360%		
35) SS 1,2-DCA-d4_MS	10.377	65	63552	9.914 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.140%		
48) SS Toluene-d8_MS	14.014	98	243178	10.314 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.140%		
65) SS 4-BFB_MS	17.583	95	75013	9.870 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.700%		
83) SS 1,2-DCB-d4_MS	19.274	152	65637	9.909 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.090%		
90) SS 2,5-DBT_MS	22.594	250	4370	1.859 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 4.648%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.416	85	26426m	2.305 ug/L	
3) chloromethane	2.708	50	33228m	2.327 ug/L	
4) vinyl chloride	2.848	62	20951m	2.164 ug/L	
5) bromomethane	3.408	94	7815m	1.742 ug/L	
6) chloroethane	3.505	64	12152m	2.244 ug/L	
7) trichlorofluoromethane	3.864	101	33757	2.079 ug/L	95
8) diethyl ether	4.296	59	14521	1.976 ug/L	98
9) 1,1,2-Trichlorotrifluoroet	4.508	101	23562	2.000 ug/L	98
10) acrolein	4.527	56	5161m	2.118 ug/L	
11) acetone	4.636	43	11046	2.017 ug/L	99
12) 1,1-dichloroethene	4.819	96	18875	1.981 ug/L	88
13) tert-Butyl Alcohol(TBA)	5.007	59	9158m	8.261 ug/L	
15) methylene chloride	5.694	84	20032	2.045 ug/L	95
16) carbon disulfide	5.712	76	50109	1.944 ug/L	98
17) acrylonitrile	5.968	53	8927	1.774 ug/L #	73
18) Methyl-t-butyl ether(MTBE)	6.010	73	79114	3.556 ug/L #	93
19) trans-1,2-dichloroethene	6.272	96	18895	1.883 ug/L	90
20) hexane	6.381	57	22945	1.807 ug/L	97
21) Isopropyl ether(DIPE)	6.923	45	64309	1.791 ug/L #	89
22) vinyl acetate	7.160	43	17691	1.408 ug/L #	89
23) 1,1-dichloroethane	7.136	63	36115	1.811 ug/L	94
24) Ethyl-t-butyl ether(ETBE)	7.780	59	38901	1.618 ug/L	99
25) 2,2-dichloropropane	8.309	77	22439	1.671 ug/L	94
26) cis-1,2-dichloroethene	8.419	96	19604	1.903 ug/L	90
27) 2-butanone(MEK)	8.060	43	10647m	1.897 ug/L	
28) bromochloromethane	9.124	128	10928	1.962 ug/L	98
29) Tetrahydrofuran(THF)	9.215	42	5476	1.695 ug/L #	70
30) chloroform	8.753	83	38863	1.983 ug/L	99
32) 1,1,1-trichloroethane	9.623	97	32294	1.854 ug/L	91
33) carbon tetrachloride	10.188	117	28770	1.806 ug/L	95
34) 1,1-dichloropropene	9.988	75	22859	1.731 ug/L	86
36) tert-amyl methyl ether(TAM	10.286	73	27589	1.608 ug/L #	57
37) benzene	10.596	78	66601	1.901 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080905.D Vial: 5
Acq On : 9 Aug 2012 9:32 am Operator: KJP/VG
Sample : 2 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:26 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

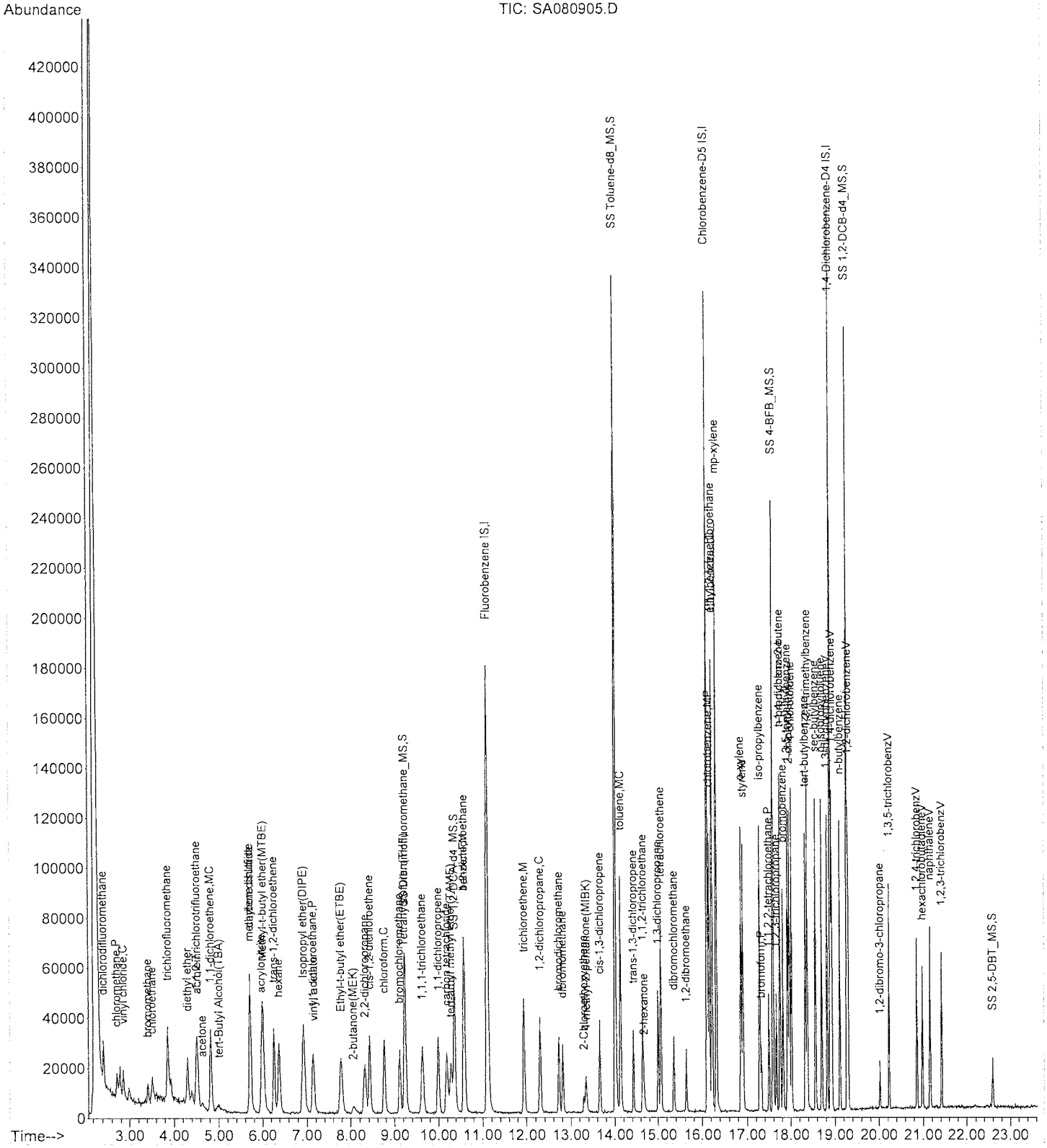
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	10.590	62	31470	1.898	ug/L		95
39)	trichloroethene	11.946	95	21676	1.980	ug/L		95
40)	1,2-dichloropropane	12.299	63	17025	1.750	ug/L	#	68
42)	dibromomethane	12.809	93	11480	1.858	ug/L		95
43)	bromodichloromethane	12.724	83	25069	1.852	ug/L		98
44)	2-Chloroethoxyethene	13.296	63	3356	1.427	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.351	58	5074	1.455	ug/L		88
46)	cis-1,3-dichloropropene	13.655	75	19906	1.749	ug/L		100
49)	toluene	14.129	91	71968	2.024	ug/L		99
50)	trans-1,3-dichloropropene	14.427	75	18302	1.651	ug/L		92
51)	1,1,2-trichloroethane	14.646	83	12006	1.952	ug/L		91
52)	2-hexanone	14.676	43	10122	1.549	ug/L	#	82
53)	tetrachloroethene	15.072	166	22615	2.002	ug/L		97
54)	1,3-dichloropropane	15.005	76	24761	1.968	ug/L		95
55)	dibromochloromethane	15.351	129	17081	1.731	ug/L		98
56)	1,2-dibromoethane	15.619	107	16096	1.843	ug/L		89
57)	chlorobenzene	16.160	112	53627	2.049	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.215	131	18679	1.955	ug/L		95
59)	ethylbenzene	16.227	91	80431	2.021	ug/L		96
60)	mp-xylene	16.324	106	66106	4.189	ug/L		94
61)	o-xylene	16.860	106	28325	1.871	ug/L		97
62)	styrene	16.902	104	46877	1.970	ug/L		98
63)	bromoform	17.322	173	11415	1.797	ug/L		100
64)	iso-propylbenzene	17.285	105	71632	1.976	ug/L		96
67)	bromobenzene	17.820	156	23433	2.013	ug/L		92
68)	1,1,2,2-tetrachloroethane	17.492	83	19262	1.960	ug/L		100
69)	1,2,3-trichloropropane	17.662	110	6365	1.844	ug/L		89
70)	t-1,4-dichloro-2-butene	17.747	53	552	1.975	ug/L	#	1
71)	n-propylbenzene	17.747	91	91196	1.995	ug/L		98
72)	2-chlorotoluene	17.966	91	62799	2.051	ug/L		94
73)	4-chlorotoluene	18.015	91	64678	2.089	ug/L		98
74)	1,3,5-trimethylbenzene	17.924	105	63743	1.945	ug/L		93
75)	tert-butylbenzene	18.331	119	51287	1.843	ug/L		96
76)	1,2,4-trimethylbenzene	18.374	105	67856	2.006	ug/L		99
77)	sec-butylbenzene	18.562	105	78056	2.042	ug/L		98
78)	1,3-dichlorobenzeneV	18.824	146	41112	2.020	ug/L		97
79)	p-isopropyltoluene	18.702	119	63633	1.942	ug/L		97
80)	1,4-dichlorobenzeneV	18.933	146	42082	2.029	ug/L		100
81)	1,2-dichlorobenzeneV	19.298	146	39129	2.043	ug/L		96
82)	n-butylbenzene	19.110	91	52404	1.871	ug/L		94
84)	1,2-dibromo-3-chloropropan	20.016	75	3337	1.649	ug/L		86
85)	1,3,5-trichlorobenzV	20.229	180	22639	1.973	ug/L		100
86)	1,2,4-trichlorobenzV	20.861	180	18758	1.824	ug/L		90
87)	hexachlorobutadieneV	20.989	225	9765	2.152	ug/L		99
88)	naphthaleneV	21.153	128	48382	1.809	ug/L		97
89)	1,2,3-trichlorobenzV	21.414	180	18091	2.026	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080905.D Vial: 5
Acq On : 9 Aug 2012 9:32 am Operator: KJP/VG
Sample : 2 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:02 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080906.D Vial: 6
Acq On : 9 Aug 2012 10:22 am Operator: KJP/VG
Sample : 5 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:29 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	270418	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	186262	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	85073	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.233	111	73103	10.280 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.800%		
35) SS 1,2-DCA-d4_MS	10.370	65	70202	10.480 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.800%		
48) SS Toluene-d8_MS	14.013	98	253345	9.923 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.230%		
65) SS 4-BFB_MS	17.582	95	86362	10.494 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.940%		
83) SS 1,2-DCB-d4_MS	19.273	152	71495	10.030 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.300%		
90) SS 2,5-DBT_MS	22.594	250	13800	5.454 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 13.635%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.422	85	59205m	4.941 ug/L	
3) chloromethane	2.708	50	82599m	5.535 ug/L	
4) vinyl chloride	2.853	62	62154m	6.144 ug/L	
5) bromomethane	3.407	94	25113m	5.357 ug/L	
6) chloroethane	3.510	64	32376	5.721 ug/L	90
7) trichlorofluoromethane	3.863	101	90346	5.324 ug/L	95
8) diethyl ether	4.295	59	41472	5.399 ug/L	96
9) 1,1,2-Trichlorotrifluoroet	4.508	101	63936	5.194 ug/L	97
10) acrolein	4.526	56	13281	5.215 ug/L	99
11) acetone	4.635	43	35717	6.240 ug/L	95
12) 1,1-dichloroethene	4.818	96	52721	5.295 ug/L	96
13) tert-Butyl Alcohol(TBA)	4.994	59	28290m	24.421 ug/L	
14) iodomethane	5.396	142	89	8.386 ug/L #	34
15) methylene chloride	5.700	84	53785	5.254 ug/L	88
16) carbon disulfide	5.712	76	136962	5.084 ug/L	97
17) acrylonitrile	5.961	53	26856	5.106 ug/L	95
18) Methyl-t-butyl ether(MTBE)	5.991	73	227451	9.782 ug/L	94
19) trans-1,2-dichloroethene	6.259	96	54720	5.219 ug/L	96
20) hexane	6.387	57	67927	5.118 ug/L	98
21) Isopropyl ether(DIPE)	6.916	45	190089	5.066 ug/L	96
22) vinyl acetate	7.153	43	49257	3.752 ug/L	97
23) 1,1-dichloroethane	7.135	63	107789	5.171 ug/L	98
24) Ethyl-t-butyl ether(ETBE)	7.779	59	113524	4.518 ug/L	99
25) 2,2-dichloropropane	8.315	77	61845	4.407 ug/L	97
26) cis-1,2-dichloroethene	8.418	96	54838	5.094 ug/L	92
27) 2-butanone(MEK)	8.053	43	30074	5.126 ug/L	93
28) bromochloromethane	9.117	128	29456	5.061 ug/L	93
29) Tetrahydrofuran(THF)	9.209	42	15426	4.570 ug/L #	80
30) chloroform	8.758	83	103654	5.062 ug/L	95
32) 1,1,1-trichloroethane	9.634	97	91119	5.006 ug/L	95
33) carbon tetrachloride	10.194	117	82291	4.943 ug/L	89
34) 1,1-dichloropropene	9.993	75	67766	4.910 ug/L	94
36) tert-amyl methyl ether(TAM	10.285	73	78683	4.389 ug/L #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080906.D Vial: 6
Acq On : 9 Aug 2012 10:22 am Operator: KJP/VG
Sample : 5 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:29 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

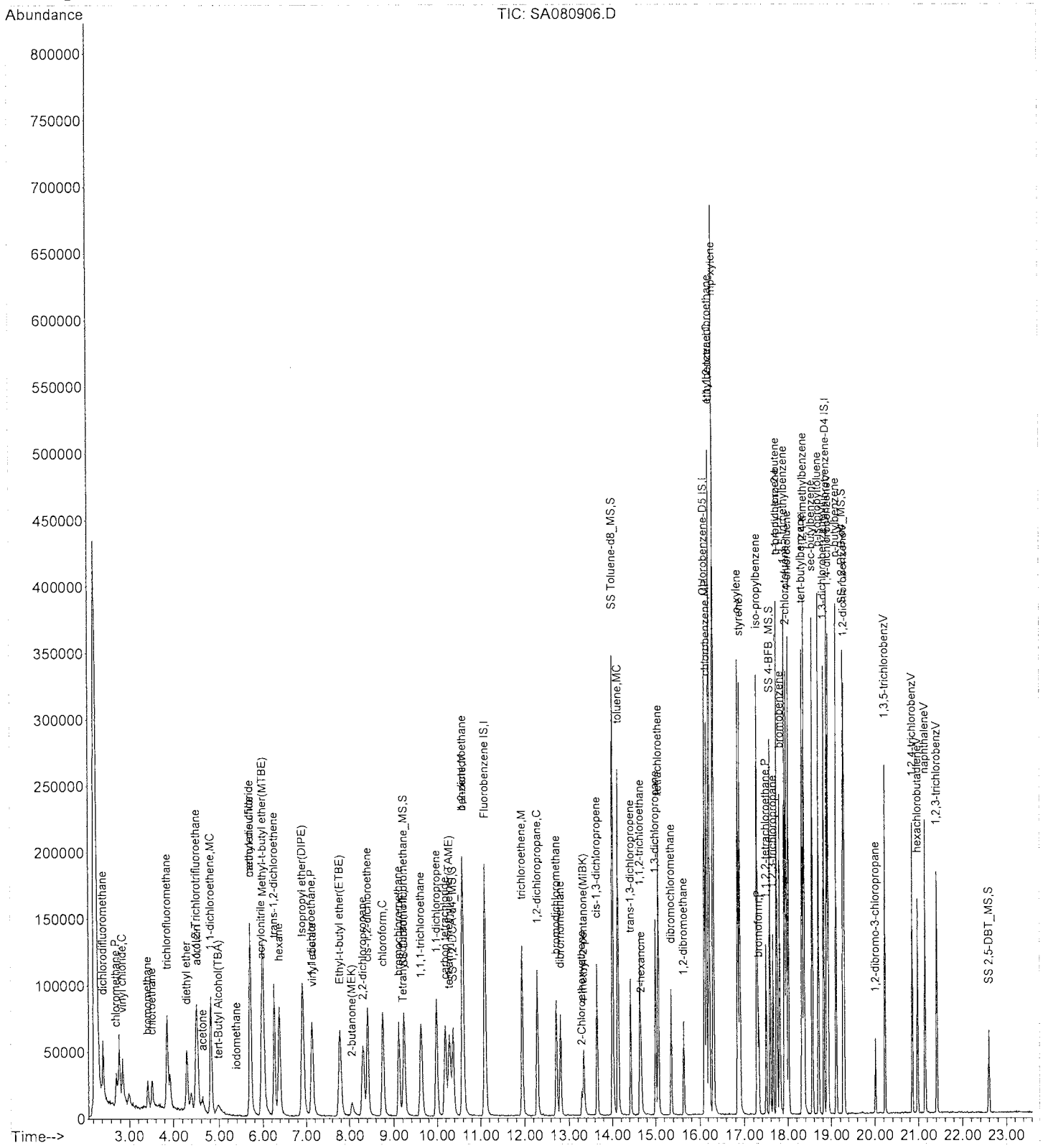
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	benzene	10.595	78	190544	5.206	ug/L		98
38)	1,2-dichloroethane	10.595	62	91095	5.257	ug/L		95
39)	trichloroethene	11.939	95	56497	4.937	ug/L		92
40)	1,2-dichloropropane	12.298	63	50601	4.976	ug/L		86
42)	dibromomethane	12.809	93	33223	5.146	ug/L		98
43)	bromodichloromethane	12.724	83	71244	5.038	ug/L		93
44)	2-Chloroethoxyethene	13.289	63	8993	3.659	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.344	58	16367	4.491	ug/L		84
46)	cis-1,3-dichloropropene	13.654	75	63122	5.306	ug/L		100
49)	toluene	14.134	91	200442	5.207	ug/L		99
50)	trans-1,3-dichloropropene	14.426	75	52629	4.384	ug/L		100
51)	1,1,2-trichloroethane	14.645	83	35214	5.288	ug/L		93
52)	2-hexanone	14.676	43	37868	5.350	ug/L	#	92
53)	tetrachloroethene	15.065	166	62834	5.137	ug/L		94
54)	1,3-dichloropropane	15.004	76	70221	5.153	ug/L		98
55)	dibromochloromethane	15.351	129	51791	4.847	ug/L		98
56)	1,2-dibromoethane	15.624	107	47845	5.058	ug/L		97
57)	chlorobenzene	16.159	112	149873	5.289	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.214	131	53767	5.196	ug/L		96
59)	ethylbenzene	16.226	91	229944	5.336	ug/L		98
60)	mp-xylene	16.318	106	190570	11.152	ug/L		97
61)	o-xylene	16.859	106	86592	5.282	ug/L		92
62)	styrene	16.901	104	140391	5.448	ug/L		98
63)	bromoform	17.321	173	34159	4.966	ug/L		94
64)	iso-propylbenzene	17.285	105	211259	5.382	ug/L		99
67)	bromobenzene	17.820	156	64193	5.123	ug/L		95
68)	1,1,2,2-tetrachloroethane	17.491	83	53727	5.081	ug/L		95
69)	1,2,3-trichloropropane	17.662	110	18896	5.086	ug/L		92
70)	t-1,4-dichloro-2-butene	17.747	53	1780	5.917	ug/L	#	1
71)	n-propylbenzene	17.747	91	266774	5.422	ug/L		97
72)	2-chlorotoluene	17.966	91	169840	5.155	ug/L		99
73)	4-chlorotoluene	18.014	91	178883	5.369	ug/L		100
74)	1,3,5-trimethylbenzene	17.923	105	190972	5.415	ug/L		98
75)	tert-butylbenzene	18.331	119	161117	5.380	ug/L		100
76)	1,2,4-trimethylbenzene	18.373	105	200342	5.503	ug/L		100
77)	sec-butylbenzene	18.562	105	226240	5.500	ug/L		99
78)	1,3-dichlorobenzeneV	18.823	146	116206	5.307	ug/L		99
79)	p-isopropyltoluene	18.701	119	196420	5.570	ug/L		97
80)	1,4-dichlorobenzeneV	18.933	146	116840	5.235	ug/L		98
81)	1,2-dichlorobenzeneV	19.304	146	107229	5.202	ug/L		97
82)	n-butylbenzene	19.115	91	166023	5.509	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.015	75	9964	4.575	ug/L		93
85)	1,3,5-trichlorobenzV	20.228	180	64645	5.235	ug/L		96
86)	1,2,4-trichlorobenzV	20.860	180	55603	5.025	ug/L		94
87)	hexachlorobutadieneV	20.988	225	28585	5.855	ug/L		95
88)	naphthaleneV	21.152	128	151328	5.257	ug/L		99
89)	1,2,3-trichlorobenzV	21.414	180	54178	5.639	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080906.D Vial: 6
Acq On : 9 Aug 2012 10:22 am Operator: KJP/VG
Sample : 5 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:04 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080907.D Vial: 7
Acq On : 9 Aug 2012 10:53 am Operator: KJP/VG
Sample : 10 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:32 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.110	96	260037	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.115	117	180468	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.900	152	82495	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.237	111	69750	10.201 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.010%		
35) SS 1,2-DCA-d4_MS	10.368	65	69306	10.759 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.590%		
48) SS Toluene-d8_MS	14.011	98	243890	9.859 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.590%		
65) SS 4-BFB_MS	17.586	95	80055	10.040 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.400%		
83) SS 1,2-DCB-d4_MS	19.277	152	69177	10.008 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.080%		
90) SS 2,5-DBT_MS	22.598	250	27833	11.344 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 28.360%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.420	85	120858m	10.488 ug/L	
3) chloromethane	2.712	50	141688m	9.874 ug/L	
4) vinyl chloride	2.851	62	102248m	10.511 ug/L	
5) bromomethane	3.417	94	47605m	10.561 ug/L	
6) chloroethane	3.508	64	59500m	10.935 ug/L	
7) trichlorofluoromethane	3.855	101	173547	10.634 ug/L	99
8) diethyl ether	4.299	59	76575	10.367 ug/L	94
9) 1,1,2-Trichlorotrifluoroet	4.518	101	125328	10.588 ug/L	97
10) acrolein	4.530	56	25563	10.438 ug/L	99
11) acetone	4.639	43	68224	12.394 ug/L	86
12) 1,1-dichloroethene	4.822	96	101344	10.586 ug/L	94
13) tert-Butyl Alcohol(TBA)	4.992	59	53370m	47.910 ug/L	
14) iodomethane	5.369	142	93	9.113 ug/L #	34
15) methylene chloride	5.704	84	100453	10.205 ug/L #	82
16) carbon disulfide	5.716	76	266202	10.275 ug/L	99
17) acrylonitrile	5.965	53	51337	10.150 ug/L	94
18) Methyl-t-butyl ether(MTBE)	5.995	73	470976	21.064 ug/L	96
19) trans-1,2-dichloroethene	6.263	96	104431	10.358 ug/L	96
20) hexane	6.391	57	129226	10.125 ug/L	95
21) Isopropyl ether(DIPE)	6.914	45	374212	10.372 ug/L	97
22) vinyl acetate	7.157	43	113412	8.984 ug/L	97
23) 1,1-dichloroethane	7.127	63	211228	10.539 ug/L	97
24) Ethyl-t-butyl ether(ETBE)	7.783	59	244450	10.117 ug/L	98
25) 2,2-dichloropropane	8.319	77	137281	10.174 ug/L	94
26) cis-1,2-dichloroethene	8.410	96	108282	10.461 ug/L	98
27) 2-butanone(MEK)	8.063	43	59329	10.517 ug/L	94
28) bromochloromethane	9.115	128	57088	10.200 ug/L	97
29) Tetrahydrofuran(THF)	9.206	42	30028	9.251 ug/L	96
30) chloroform	8.756	83	202099	10.264 ug/L	98
32) 1,1,1-trichloroethane	9.632	97	179035	10.230 ug/L	98
33) carbon tetrachloride	10.192	117	167953	10.491 ug/L	93
34) 1,1-dichloropropene	9.991	75	141905	10.693 ug/L	97
36) tert-amyl methyl ether(TAM	10.289	73	175014	10.152 ug/L #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080907.D Vial: 7
Acq On : 9 Aug 2012 10:53 am Operator: KJP/VG
Sample : 10 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:32 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

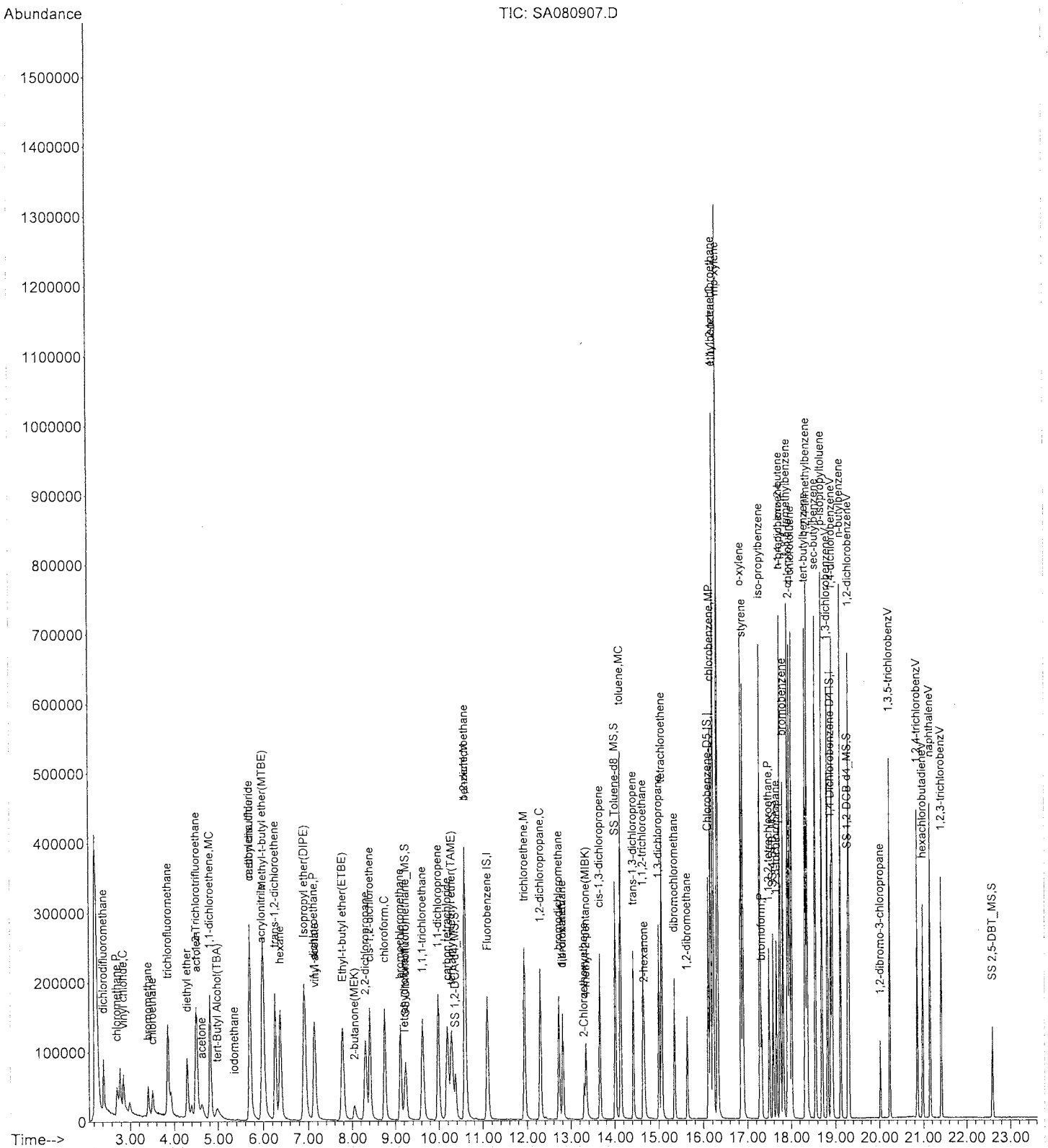
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) benzene	10.593	78	367648	10.445	ug/L		100
38) 1,2-dichloroethane	10.593	62	177947	10.680	ug/L		98
39) trichloroethene	11.937	95	112357	10.211	ug/L		97
40) 1,2-dichloropropane	12.296	63	102090	10.441	ug/L		90
41) 1,4-dioxaneV	12.800	88	1279m	16.818	ug/L		
42) dibromomethane	12.807	93	66802	10.761	ug/L		96
43) bromodichloromethane	12.721	83	138798	10.207	ug/L		96
44) 2-Chloroethoxyethene	13.293	63	23575	9.974	ug/L	#	38
45) 4-methyl-2-pentanone(MIBK)	13.342	58	34895	9.958	ug/L	#	73
46) cis-1,3-dichloropropene	13.652	75	130039	11.367	ug/L		97
49) toluene	14.132	91	392507	10.523	ug/L		98
50) trans-1,3-dichloropropene	14.424	75	117965	10.141	ug/L		98
51) 1,1,2-trichloroethane	14.643	83	67887	10.521	ug/L		98
52) 2-hexanone	14.674	43	75717	11.041	ug/L		95
53) tetrachloroethene	15.069	166	123872	10.452	ug/L		99
54) 1,3-dichloropropane	15.002	76	135336	10.251	ug/L		97
55) dibromochloromethane	15.355	129	106831	10.320	ug/L		99
56) 1,2-dibromoethane	15.622	107	94834	10.348	ug/L		96
57) chlorobenzene	16.163	112	285939	10.414	ug/L		98
58) 1,1,1,2-tetrachloroethane	16.218	131	106893	10.662	ug/L		96
59) ethylbenzene	16.224	91	461884	11.063	ug/L		95
60) mp-xylene	16.322	106	366612	22.143	ug/L		97
61) o-xylene	16.857	106	173093	10.898	ug/L		89
62) styrene	16.905	104	275227	11.024	ug/L		95
63) bromoform	17.319	173	67866	10.183	ug/L		99
64) iso-propylbenzene	17.282	105	421131	11.073	ug/L		97
67) bromobenzene	17.818	156	124488	10.246	ug/L		97
68) 1,1,2,2-tetrachloroethane	17.489	83	103944	10.137	ug/L		94
69) 1,2,3-trichloropropane	17.666	110	36990	10.267	ug/L		85
70) t-1,4-dichloro-2-butene	17.751	53	2796	9.585	ug/L	#	1
71) n-propylbenzene	17.745	91	524914	11.002	ug/L		97
72) 2-chlorotoluene	17.964	91	330886	10.356	ug/L		97
73) 4-chlorotoluene	18.012	91	348196	10.776	ug/L		99
74) 1,3,5-trimethylbenzene	17.921	105	373926	10.934	ug/L		95
75) tert-butylbenzene	18.328	119	329271	11.339	ug/L		99
76) 1,2,4-trimethylbenzene	18.371	105	392493	11.118	ug/L		93
77) sec-butylbenzene	18.560	105	455133	11.411	ug/L		98
78) 1,3-dichlorobenzeneV	18.827	146	221772	10.445	ug/L		95
79) p-isopropyltoluene	18.699	119	381521	11.157	ug/L		97
80) 1,4-dichlorobenzeneV	18.930	146	222334	10.273	ug/L		98
81) 1,2-dichlorobenzeneV	19.301	146	209423	10.476	ug/L		100
82) n-butylbenzene	19.113	91	330339	11.303	ug/L		98
84) 1,2-dibromo-3-chloropropan	20.013	75	21510	10.184	ug/L		95
85) 1,3,5-trichlorobenzV	20.226	180	127959	10.686	ug/L		98
86) 1,2,4-trichlorobenzV	20.858	180	118167	11.012	ug/L		98
87) hexachlorobutadieneV	20.986	225	56375	11.907	ug/L		97
88) naphthaleneV	21.156	128	326430	11.694	ug/L		97
89) 1,2,3-trichlorobenzV	21.418	180	105581	11.333	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080907.D Vial: 7
Acq On : 9 Aug 2012 10:53 am Operator: KJP/VG
Sample : 10 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:06 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080908.D Vial: 8
Acq On : 9 Aug 2012 11:23 am Operator: KJP/VG
Sample : 20 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:36 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.101	96	266211	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	181147	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	84541	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.240	111	71721	10.246 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.460%		
35) SS 1,2-DCA-d4_MS	10.371	65	70448	10.683 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.830%		
48) SS Toluene-d8_MS	14.014	98	246714	9.936 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.360%		
65) SS 4-BFB_MS	17.584	95	83334	10.412 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.120%		
83) SS 1,2-DCB-d4_MS	19.274	152	69545	9.818 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.180%		
90) SS 2,5-DBT_MS	22.595	250	48489	19.284 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 48.210%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.423	85	251441m	21.314 ug/L	
3) chloromethane	2.709	50	264483m	18.003 ug/L	
4) vinyl chloride	2.849	62	191215m	19.202 ug/L	
5) bromomethane	3.408	94	84637m	18.341 ug/L	
6) chloroethane	3.505	64	105497	18.938 ug/L	92
7) trichlorofluoromethane	3.858	101	307715	18.418 ug/L	97
8) diethyl ether	4.302	59	128155	16.948 ug/L	96
9) 1,1,2-Trichlorotrifluoroet	4.515	101	223901	18.477 ug/L	96
10) acrolein	4.527	56	44519	17.756 ug/L	95
11) acetone	4.630	43	115353	20.470 ug/L	91
12) 1,1-dichloroethene	4.819	96	183834	18.757 ug/L #	86
13) tert-Butyl Alcohol(TBA)	4.977	59	107809m	94.536 ug/L	
14) iodomethane	5.360	142	86	8.231 ug/L #	34
15) methylene chloride	5.701	84	201891	20.035 ug/L	91
16) carbon disulfide	5.713	76	521054	19.646 ug/L	99
17) acrylonitrile	5.962	53	107120	20.687 ug/L	96
18) Methyl-t-butyl ether(MTBE)	5.999	73	934001	40.804 ug/L	97
19) trans-1,2-dichloroethene	6.266	96	205596	19.919 ug/L	95
20) hexane	6.388	57	266843	20.423 ug/L	99
21) Isopropyl ether(DIPE)	6.917	45	738022	19.981 ug/L	97
22) vinyl acetate	7.160	43	252106	19.507 ug/L	98
23) 1,1-dichloroethane	7.136	63	416194	20.283 ug/L	98
24) Ethyl-t-butyl ether(ETBE)	7.774	59	514869	20.814 ug/L	98
25) 2,2-dichloropropane	8.310	77	287452	20.809 ug/L	98
26) cis-1,2-dichloroethene	8.413	96	209417	19.762 ug/L	96
27) 2-butanone(MEK)	8.054	43	123357	21.359 ug/L	92
28) bromochloromethane	9.118	128	112117	19.567 ug/L	87
29) Tetrahydrofuran(THF)	9.204	42	66118	19.898 ug/L	93
30) chloroform	8.760	83	390076	19.351 ug/L	98
32) 1,1,1-trichloroethane	9.629	97	352834	19.693 ug/L	97
33) carbon tetrachloride	10.195	117	338055	20.627 ug/L	92
34) 1,1-dichloropropene	9.994	75	283775	20.887 ug/L	99
36) tert-amyl methyl ether(TAM	10.286	73	370419	20.989 ug/L #	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080908.D Vial: 8
Acq On : 9 Aug 2012 11:23 am Operator: KJP/VG
Sample : 20 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:36 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

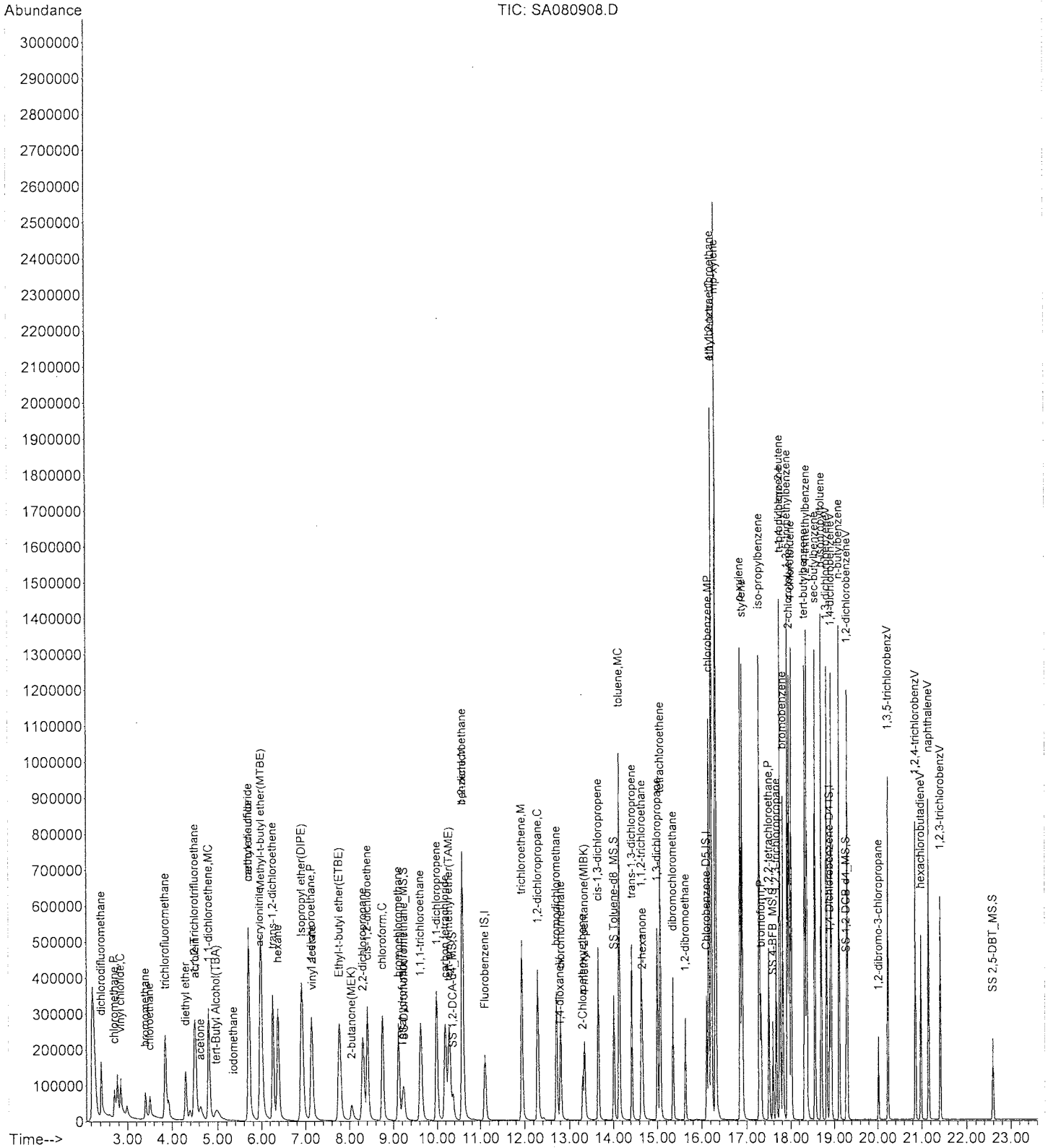
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	benzene	10.596	78	713960	19.814	ug/L		99
38)	1,2-dichloroethane	10.590	62	341601	20.026	ug/L		100
39)	trichloroethene	11.940	95	226455	20.103	ug/L		95
40)	1,2-dichloropropane	12.299	63	201502	20.130	ug/L		93
41)	1,4-dioxaneV	12.786	88	2970m	38.147	ug/L		
42)	dibromomethane	12.810	93	126311	19.875	ug/L		96
43)	bromodichloromethane	12.719	83	279501	20.077	ug/L		99
44)	2-Chloroethoxyethene	13.296	63	55130	22.782	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.339	58	74653	20.809	ug/L		99
46)	cis-1,3-dichloropropene	13.649	75	271645	23.195	ug/L		96
49)	toluene	14.129	91	773817	20.668	ug/L		98
50)	trans-1,3-dichloropropene	14.427	75	248572	21.289	ug/L		97
51)	1,1,2-trichloroethane	14.646	83	130641	20.171	ug/L		92
52)	2-hexanone	14.671	43	156834	22.783	ug/L		95
53)	tetrachloroethene	15.066	166	246054	20.684	ug/L		96
54)	1,3-dichloropropane	14.999	76	266948	20.144	ug/L		97
55)	dibromochloromethane	15.352	129	217351	20.917	ug/L		96
56)	1,2-dibromoethane	15.625	107	186732	20.299	ug/L		96
57)	chlorobenzene	16.161	112	561862	20.387	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.215	131	212734	21.139	ug/L		96
59)	ethylbenzene	16.228	91	919797	21.948	ug/L		97
60)	mp-xylene	16.319	106	706088	42.488	ug/L		93
61)	o-xylene	16.860	106	348605	21.865	ug/L		94
62)	styrene	16.903	104	538076	21.472	ug/L		95
63)	bromoform	17.322	173	140423	20.991	ug/L		97
64)	iso-propylbenzene	17.280	105	838091	21.954	ug/L		99
67)	bromobenzene	17.821	156	241674	19.410	ug/L		95
68)	1,1,2,2-tetrachloroethane	17.492	83	204328	19.445	ug/L		98
69)	1,2,3-trichloropropane	17.663	110	73558	19.923	ug/L		91
70)	t-1,4-dichloro-2-butene	17.748	53	6209	20.769	ug/L	#	1
71)	n-propylbenzene	17.748	91	1033505	21.138	ug/L		98
72)	2-chlorotoluene	17.967	91	644220	19.675	ug/L		97
73)	4-chlorotoluene	18.015	91	664917	20.081	ug/L		100
74)	1,3,5-trimethylbenzene	17.924	105	737896	21.054	ug/L		99
75)	tert-butylbenzene	18.332	119	611081	20.534	ug/L		99
76)	1,2,4-trimethylbenzene	18.374	105	745674	20.612	ug/L		99
77)	sec-butylbenzene	18.563	105	849477	20.782	ug/L		99
78)	1,3-dichlorobenzeneV	18.824	146	431889	19.848	ug/L		96
79)	p-isopropyltoluene	18.703	119	745925	21.285	ug/L		97
80)	1,4-dichlorobenzeneV	18.934	146	431882	19.473	ug/L		98
81)	1,2-dichlorobenzeneV	19.299	146	400641	19.557	ug/L		98
82)	n-butylbenzene	19.110	91	635392	21.215	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.016	75	41576	19.209	ug/L		96
85)	1,3,5-trichlorobenzV	20.229	180	249278	20.313	ug/L		98
86)	1,2,4-trichlorobenzV	20.862	180	226057	20.557	ug/L		96
87)	hexachlorobutadieneV	20.983	225	92063	18.974	ug/L		94
88)	naphthaleneV	21.153	128	604407	21.128	ug/L		97
89)	1,2,3-trichlorobenzV	21.415	180	188907	19.787	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080908.D Vial: 8
Acq On : 9 Aug 2012 11:23 am Operator: KJP/VG
Sample : 20 STD Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:08 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080909.D Vial: 9
Acq On : 9 Aug 2012 11:53 am Operator: KJP/VG
Sample : 50 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:40 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.103	96	269382	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.114	117	187174	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.900	152	81930	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.243	111	69911	9.869	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.690%			
35) SS 1,2-DCA-d4_MS	10.374	65	63969	9.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.860%			
48) SS Toluene-d8_MS	14.010	98	255177	9.946	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.460%			
65) SS 4-BFB_MS	17.586	95	82190	9.938	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.380%			
83) SS 1,2-DCB-d4_MS	19.277	152	68283	9.947	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.470%			
90) SS 2,5-DBT_MS	22.597	250	109555	44.959	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 112.398%			
Target Compounds						Qvalue
8) diethyl ether	4.298	59	393000	51.361	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	4.511	101	626808	51.118	ug/L	97
11) acetone	4.639	43	265110	46.492	ug/L	90
12) 1,1-dichloroethene	4.815	96	501441m	50.560	ug/L	
13) tert-Butyl Alcohol(TBA)	4.986	59	320949m	278.122	ug/L	
15) methylene chloride	5.703	84	510471	50.060	ug/L	88
16) carbon disulfide	5.715	76	1365884	50.893	ug/L	99
17) acrylonitrile	5.965	53	272286	51.965	ug/L	91
18) Methyl-t-butyl ether(MTBE)	5.995	73	2426035	104.740	ug/L	97
19) trans-1,2-dichloroethene	6.269	96	533178	51.049	ug/L	92
20) hexane	6.384	57	676154	51.142	ug/L	99
21) Isopropyl ether(DIPE)	6.920	45	2001047	53.538	ug/L	97
23) 1,1-dichloroethane	7.132	63	1063808	51.234	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.771	59	1326926	53.011	ug/L	99
25) 2,2-dichloropropane	8.312	77	741264	53.030	ug/L	98
26) cis-1,2-dichloroethene	8.415	96	552508	51.525	ug/L	96
27) 2-butanone(MEK)	8.051	43	312638	53.496	ug/L	94
28) bromochloromethane	9.115	128	295233	50.919	ug/L	92
29) Tetrahydrofuran(THF)	9.194	42	180329	53.630	ug/L	97
30) chloroform	8.756	83	1017339	49.874	ug/L	96
32) 1,1,1-trichloroethane	9.632	97	921328	50.817	ug/L	94
33) carbon tetrachloride	10.191	117	884863	53.356	ug/L	95
34) 1,1-dichloropropene	9.991	75	752851	54.761	ug/L	98
36) tert-amyl methyl ether(TAM	10.289	73	964782	54.024	ug/L	94
37) benzene	10.593	78	1844891	50.597	ug/L	98
38) 1,2-dichloroethane	10.587	62	893357	51.756	ug/L	99
39) trichloroethene	11.943	95	588839	51.656	ug/L	96
40) 1,2-dichloropropane	12.295	63	539789	53.291	ug/L	92
42) dibromomethane	12.806	93	336990	52.401	ug/L	98
43) bromodichloromethane	12.721	83	764050	54.236	ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.335	58	199756	55.026	ug/L	99
46) cis-1,3-dichloropropene	13.652	75	743341	62.725	ug/L	97
49) toluene	14.132	91	2008345	51.913	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080909.D Vial: 9
Acq On : 9 Aug 2012 11:53 am Operator: KJP/VG
Sample : 50 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:40 2012 Quant Results File: 3VID0809.RES

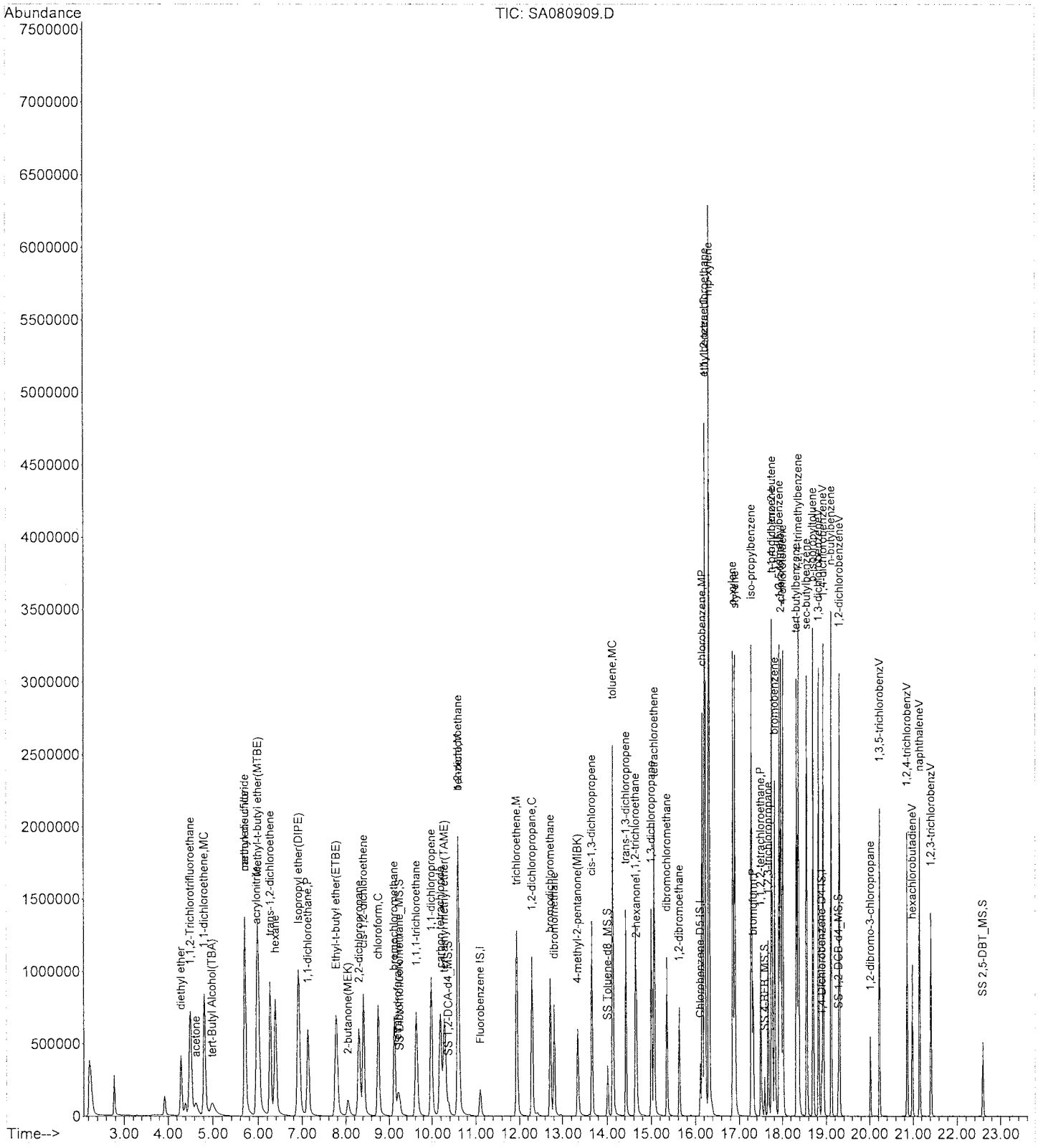
Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	14.424	75	708228	58.703	ug/L		98
51)	1,1,2-trichloroethane	14.643	83	342592m	51.193	ug/L		
52)	2-hexanone	14.667	43	418937	58.898	ug/L		97
53)	tetrachloroethene	15.068	166	629926	51.249	ug/L		96
54)	1,3-dichloropropane	15.002	76	714923	52.211	ug/L		99
55)	dibromochloromethane	15.354	129	594158	55.339	ug/L		98
56)	1,2-dibromoethane	15.622	107	502762	52.893	ug/L		92
57)	chlorobenzene	16.163	112	1475140	51.802	ug/L		100
58)	1,1,1,2-tetrachloroethane	16.218	131	549813	52.874	ug/L		96
59)	ethylbenzene	16.224	91	2312317	53.400	ug/L		96
60)	mp-xylene	16.321	106	1795192	104.545	ug/L		96
61)	o-xylene	16.856	106	880819	53.468	ug/L		92
62)	styrene	16.905	104	1416325	54.698	ug/L		95
63)	bromoform	17.325	173	391897	56.695	ug/L		98
64)	iso-propylbenzene	17.282	105	2120682	53.763	ug/L		100
67)	bromobenzene	17.817	156	621518	51.508	ug/L		100
68)	1,1,2,2-tetrachloroethane	17.495	83	520382	51.099	ug/L		98
69)	1,2,3-trichloropropane	17.665	110	187290	52.343	ug/L		89
70)	t-1,4-dichloro-2-butene	17.750	53	15089	52.081	ug/L	#	1
71)	n-propylbenzene	17.750	91	2580368	54.458	ug/L		98
72)	2-chlorotoluene	17.963	91	1639987	51.684	ug/L		96
73)	4-chlorotoluene	18.018	91	1733831	54.031	ug/L		99
74)	1,3,5-trimethylbenzene	17.927	105	1830735	53.900	ug/L		98
75)	tert-butylbenzene	18.328	119	1502324	52.092	ug/L		99
76)	1,2,4-trimethylbenzene	18.371	105	1866883	53.248	ug/L		99
77)	sec-butylbenzene	18.559	105	2065693	52.147	ug/L		98
78)	1,3-dichlorobenzeneV	18.827	146	1092845	51.825	ug/L		98
79)	p-isopropyltoluene	18.699	119	1825339	53.746	ug/L		96
80)	1,4-dichlorobenzeneV	18.930	146	1098368	51.101	ug/L		98
81)	1,2-dichlorobenzeneV	19.301	146	1015206	51.136	ug/L		98
82)	n-butylbenzene	19.113	91	1562001	53.816	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.019	75	105033	50.073	ug/L		88
85)	1,3,5-trichlorobenzV	20.232	180	587262	49.379	ug/L		99
86)	1,2,4-trichlorobenzV	20.858	180	544735	51.115	ug/L		98
87)	hexachlorobutadieneV	20.986	225	181841	38.672	ug/L		93
88)	naphthaleneV	21.156	128	1461075	52.703	ug/L		98
89)	1,2,3-trichlorobenzV	21.417	180	427115	46.163	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080909.D Vial: 9
Acq On : 9 Aug 2012 11:53 am Operator: KJP/VG
Sample : 50 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:10 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080910.D Vial: 10
Acq On : 9 Aug 2012 12:23 pm Operator: KJP/VG
Sample : 100 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:44 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	269751	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.117	117	187475	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.903	152	82476	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.239	111	69951	9.862	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.620%			
35) SS 1,2-DCA-d4_MS	10.364	65	63629	9.522	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.220%			
48) SS Toluene-d8_MS	14.013	98	257996	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.400%			
65) SS 4-BFB_MS	17.583	95	84173	10.161	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.610%			
83) SS 1,2-DCB-d4_MS	19.274	152	66440	9.614	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.140%			
90) SS 2,5-DBT_MS	22.594	250	219360	89.424	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 223.560%#			
Target Compounds						Qvalue
8) diethyl ether	4.295	59	767163	100.124	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	4.502	101	1242495	101.190	ug/L	97
11) acetone	4.636	43	533439	93.421	ug/L	94
12) 1,1-dichloroethene	4.818	96	1014549	102.156	ug/L	91
13) tert-Butyl Alcohol(TBA)	4.995	59	610583m	528.384	ug/L	
15) methylene chloride	5.700	84	998904	97.825	ug/L	90
16) carbon disulfide	5.712	76	2721278	101.256	ug/L	100
17) acrylonitrile	5.962	53	539705	102.861	ug/L	94
18) Methyl-t-butyl ether(MTBE)	5.998	73	4933720	212.715	ug/L	98
19) trans-1,2-dichloroethene	6.272	96	1068854	102.198	ug/L	93
20) hexane	6.387	57	1381832	104.374	ug/L	100
21) Isopropyl ether(DIPE)	6.916	45	4007203	107.066	ug/L	98
23) 1,1-dichloroethane	7.135	63	2158144	103.797	ug/L	98
24) Ethyl-t-butyl ether(ETBE)	7.774	59	2827402	112.801	ug/L	99
25) 2,2-dichloropropane	8.303	77	1582177	113.035	ug/L	98
26) cis-1,2-dichloroethene	8.418	96	1106084	103.009	ug/L	95
27) 2-butanone(MEK)	8.053	43	623169	106.485	ug/L	94
28) bromochloromethane	9.118	128	588642	101.384	ug/L	94
29) Tetrahydrofuran(THF)	9.197	42	371938	110.463	ug/L	96
30) chloroform	8.759	83	2032438	99.503	ug/L	99
32) 1,1,1-trichloroethane	9.629	97	1908927	105.145	ug/L	99
33) carbon tetrachloride	10.194	117	1841664	110.897	ug/L	96
34) 1,1-dichloropropene	9.987	75	1530892	111.202	ug/L	99
36) tert-amyl methyl ether(TAM	10.285	73	2070805	115.798	ug/L	95
37) benzene	10.602	78	3639913	99.689	ug/L	100
38) 1,2-dichloroethane	10.589	62	1731979	100.203	ug/L	98
39) trichloroethene	11.939	95	1170576	102.549	ug/L	95
40) 1,2-dichloropropane	12.298	63	1084941	106.965	ug/L	92
42) dibromomethane	12.809	93	660411	102.551	ug/L	97
43) bromodichloromethane	12.724	83	1525635	108.149	ug/L	97
45) 4-methyl-2-pentanone(MIBK)	13.338	58	403453	110.986	ug/L	97
46) cis-1,3-dichloropropene	13.654	75	1511259	127.350	ug/L	99
49) toluene	14.135	91	3884611	100.251	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080910.D Vial: 10
Acq On : 9 Aug 2012 12:23 pm Operator: KJP/VG
Sample : 100 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:44 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

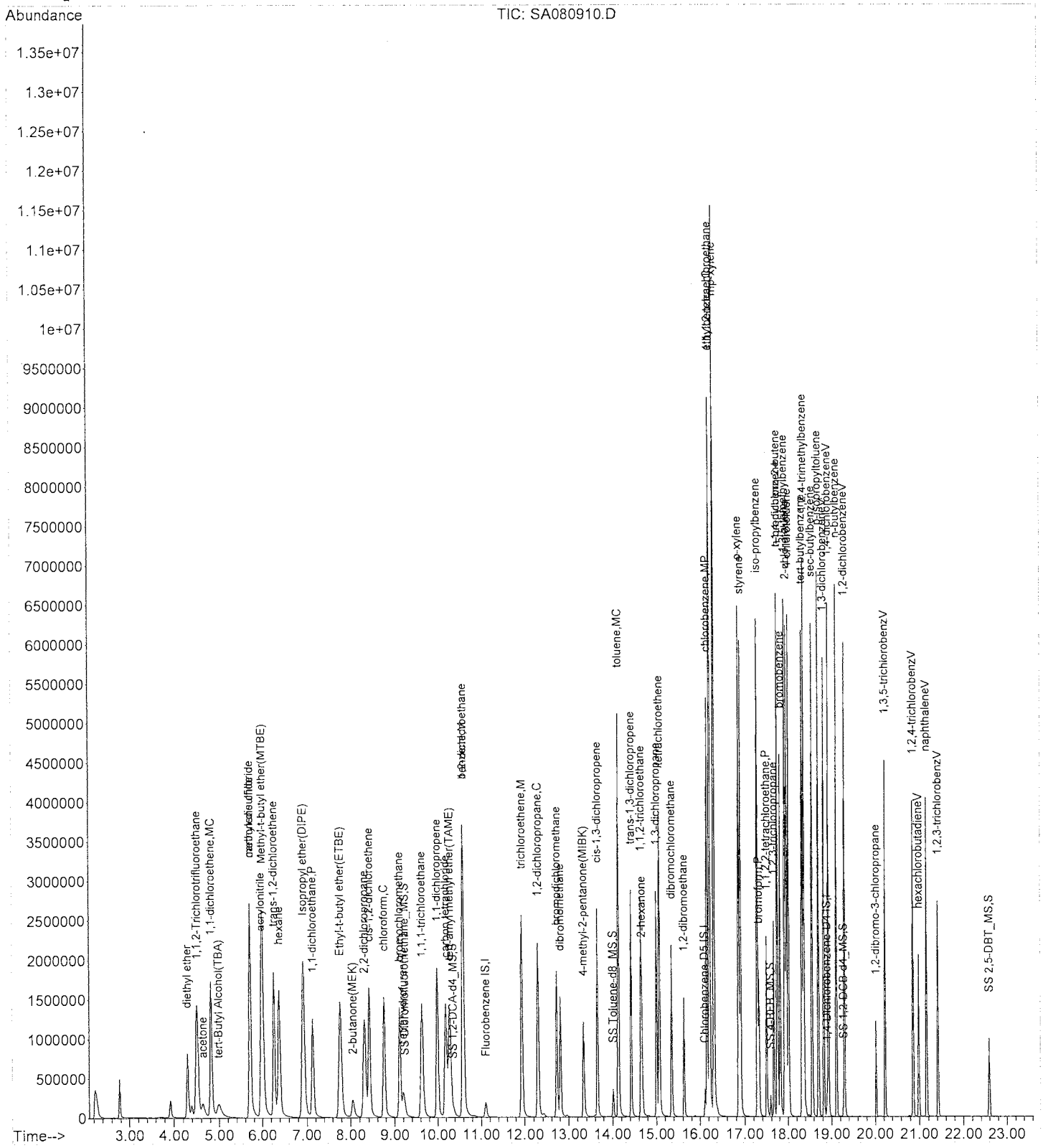
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	14.427	75	1460250	120.842	ug/L		100
51)	1,1,2-trichloroethane	14.646	83	679122	101.318	ug/L		96
52)	2-hexanone	14.670	43	816757	114.643	ug/L		97
53)	tetrachloroethene	15.071	166	1244208	101.063	ug/L		97
54)	1,3-dichloropropane	15.004	76	1418366	103.418	ug/L		98
55)	dibromochloromethane	15.357	129	1190703	110.722	ug/L		97
56)	1,2-dibromoethane	15.625	107	1001600	105.204	ug/L		95
57)	chlorobenzene	16.166	112	2847889	99.848	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.221	131	1072467	102.970	ug/L		95
59)	ethylbenzene	16.227	91	4366820	100.684	ug/L		98
60)	mp-xylene	16.324	106	3362110	195.481	ug/L		98
61)	o-xylene	16.859	106	1757411	106.508	ug/L		94
62)	styrene	16.902	104	2671623	103.012	ug/L		91
63)	bromoform	17.321	173	785635	113.474	ug/L		95
64)	iso-propylbenzene	17.285	105	4202174	106.361	ug/L		100
67)	bromobenzene	17.820	156	1211246	99.716	ug/L		98
68)	1,1,2,2-tetrachloroethane	17.492	83	1032742	100.740	ug/L		98
69)	1,2,3-trichloropropane	17.662	110	362031	100.509	ug/L		93
70)	t-1,4-dichloro-2-butene	17.747	53	28708	98.433	ug/L	#	1
71)	n-propylbenzene	17.747	91	4928698	103.330	ug/L		97
72)	2-chlorotoluene	17.966	91	3067554	96.034	ug/L		98
73)	4-chlorotoluene	18.015	91	3325331	102.940	ug/L		98
74)	1,3,5-trimethylbenzene	17.924	105	3573989	104.527	ug/L		97
75)	tert-butylbenzene	18.331	119	3087491	106.347	ug/L		99
76)	1,2,4-trimethylbenzene	18.374	105	3665524	103.857	ug/L		100
77)	sec-butylbenzene	18.562	105	4083756	102.410	ug/L		98
78)	1,3-dichlorobenzeneV	18.830	146	2144031	101.000	ug/L		96
79)	p-isopropyltoluene	18.702	119	3597662	105.231	ug/L		96
80)	1,4-dichlorobenzeneV	18.933	146	2152574	99.485	ug/L		98
81)	1,2-dichlorobenzeneV	19.304	146	1993253	99.736	ug/L		99
82)	n-butylbenzene	19.115	91	3047454	104.299	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.015	75	227228	107.611	ug/L		98
85)	1,3,5-trichlorobenzV	20.228	180	1201894	100.391	ug/L		99
86)	1,2,4-trichlorobenzV	20.861	180	1097907	102.339	ug/L		99
87)	hexachlorobutadieneV	20.988	225	373163	78.835	ug/L		94
88)	naphthaleneV	21.159	128	2946131	105.568	ug/L		97
89)	1,2,3-trichlorobenzV	21.420	180	847661	91.010	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080910.D Vial: 10
Acq On : 9 Aug 2012 12:23 pm Operator: KJP/VG
Sample : 100 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:12 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080911.D Vial: 11
Acq On : 9 Aug 2012 12:56 pm Operator: KJP/VG
Sample : 50 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:49 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

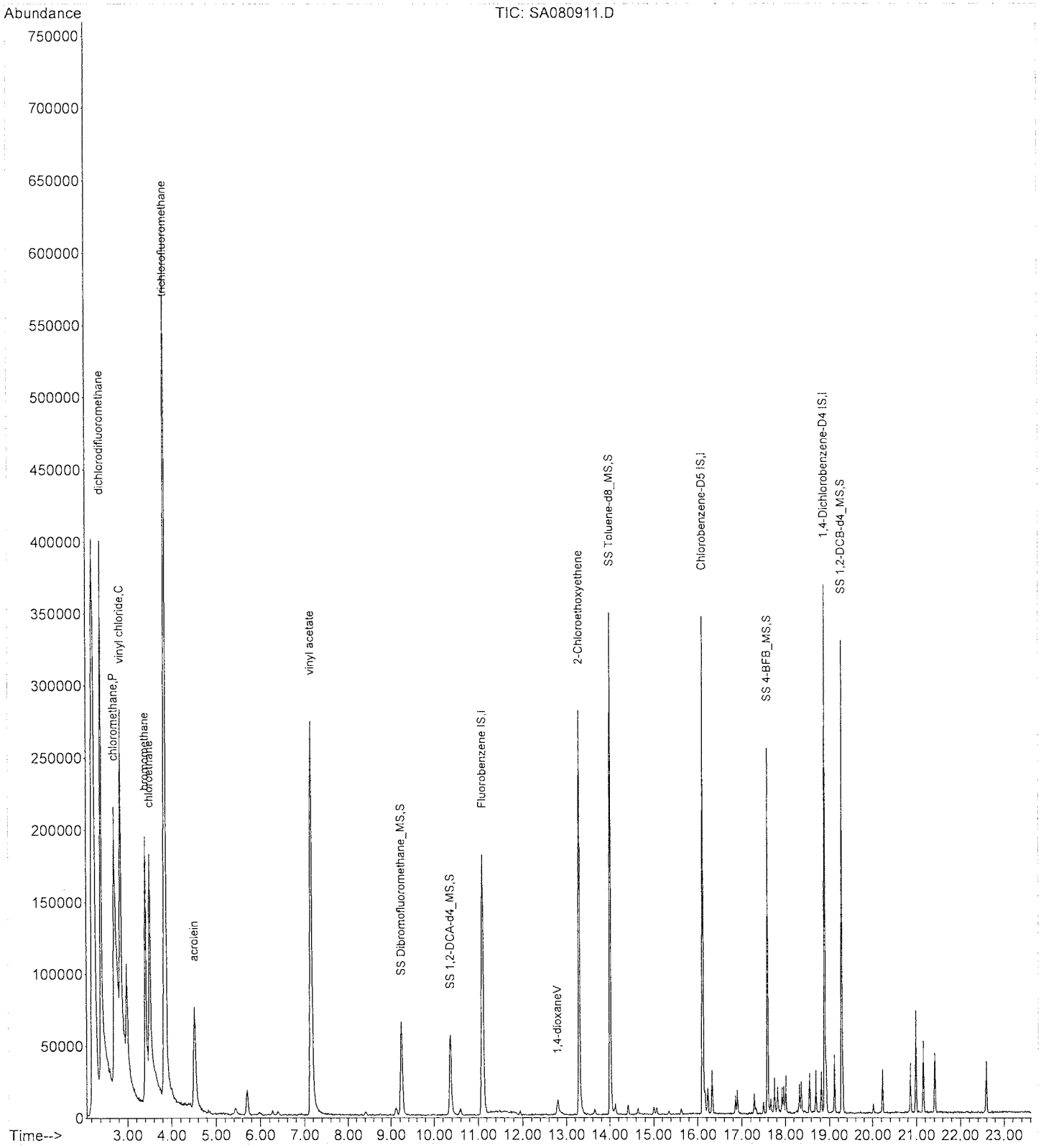
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	270588	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	178512	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	79751	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.233	111	71384	10.032 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.320%		
35) SS 1,2-DCA-d4_MS	10.371	65	67578	10.082 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.820%		
48) SS Toluene-d8_MS	14.013	98	250542	10.239 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.390%		
65) SS 4-BFB_MS	17.583	95	78280	9.925 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.250%		
83) SS 1,2-DCB-d4_MS	19.274	152	68619	10.269 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.690%		
90) SS 2,5-DBT_MS	0.000	250	0d	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.422	85	603822	50.358 ug/L	100
3) chloromethane	2.708	50	678794m	45.458 ug/L	
4) vinyl chloride	2.848	62	506005m	49.990 ug/L	
5) bromomethane	3.408	94	225951m	48.172 ug/L	
6) chloroethane	3.511	64	281559	49.726 ug/L	100
7) trichlorofluoromethane	3.858	101	811048	47.760 ug/L	99
10) acrolein	4.520	56	124842	48.987 ug/L	97
22) vinyl acetate	7.160	43	764188	58.172 ug/L	98
41) 1,4-dioxaneV	12.803	88	10141m	128.145 ug/L	
44) 2-Chloroethoxyethene	13.296	63	128809	52.369 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080911.D Vial: 11
Acq On : 9 Aug 2012 12:56 pm Operator: KJP/VG
Sample : 50 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:16 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080912.D Vial: 12
Acq On : 9 Aug 2012 1:27 pm Operator: KJP/VG
Sample : 200 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:53 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	278580	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.117	117	197818	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	90489	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.239	111	73873	10.084 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.840%		
35) SS 1,2-DCA-d4_MS	10.376	65	71193	10.317 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.170%		
48) SS Toluene-d8_MS	14.012	98	266247	9.819 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.190%		
65) SS 4-BFB_MS	17.588	95	88778	10.157 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.570%		
83) SS 1,2-DCB-d4_MS	19.279	152	75624	9.974 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.740%		
90) SS 2,5-DBT_MS	22.593	250	501142	186.205 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 465.512%#		
Target Compounds					Qvalue
8) diethyl ether	4.301	59	1508389	190.623 ug/L	97
9) 1,1,2-Trichlorotrifluoroet	4.507	101	2393916	188.784 ug/L	97
11) acetone	4.641	43	1076243	182.508 ug/L	94
12) 1,1-dichloroethene	4.817	96	1921994	187.395 ug/L	88
13) tert-Butyl Alcohol(TBA)	5.006	59	1262213	1057.670 ug/L #	90
15) methylene chloride	5.699	84	1912957	181.403 ug/L	88
16) carbon disulfide	5.711	76	5228884	188.394 ug/L	100
17) acrylonitrile	5.967	53	1056903	195.048 ug/L	91
18) Methyl-t-butyl ether(MTBE)	6.003	73	9660099	403.290 ug/L	98
19) trans-1,2-dichloroethene	6.265	96	2061776	190.888 ug/L	91
20) hexane	6.386	57	2734437	199.994 ug/L	99
21) Isopropyl ether(DIPE)	6.922	45	7857543	203.288 ug/L	99
23) 1,1-dichloroethane	7.134	63	4199826	195.590 ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.779	59	5813616	224.587 ug/L	98
25) 2,2-dichloropropane	8.308	77	3232050	223.588 ug/L	99
26) cis-1,2-dichloroethene	8.418	96	2122775	191.428 ug/L	92
27) 2-butanone(MEK)	8.059	43	1247918	206.482 ug/L	91
28) bromochloromethane	9.117	128	1146705	191.242 ug/L	94
29) Tetrahydrofuran(THF)	9.196	42	754229	216.901 ug/L	96
30) chloroform	8.758	83	3926942	186.159 ug/L	100
32) 1,1,1-trichloroethane	9.628	97	3727965	198.830 ug/L	98
33) carbon tetrachloride	10.193	117	3552996	207.166 ug/L	97
34) 1,1-dichloropropene	9.993	75	2985374	209.981 ug/L	99
36) tert-amyl methyl ether(TAM	10.285	73	4318640	233.842 ug/L	96
37) benzene	10.601	78	6904158	183.097 ug/L	100
38) 1,2-dichloroethane	10.595	62	3344879	187.383 ug/L	99
39) trichloroethene	11.945	95	2233517	189.467 ug/L	94
40) 1,2-dichloropropane	12.298	63	2103487	200.811 ug/L	89
42) dibromomethane	12.814	93	1263530	189.987 ug/L	96
43) bromodichloromethane	12.723	83	2956451	202.934 ug/L	99
45) 4-methyl-2-pentanone(MIBK)	13.337	58	804075	214.184 ug/L	97
46) cis-1,3-dichloropropene	13.654	75	2985855	243.636 ug/L	98
49) toluene	14.140	91	7179544	175.596 ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080912.D Vial: 12
Acq On : 9 Aug 2012 1:27 pm Operator: KJP/VG
Sample : 200 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:53 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

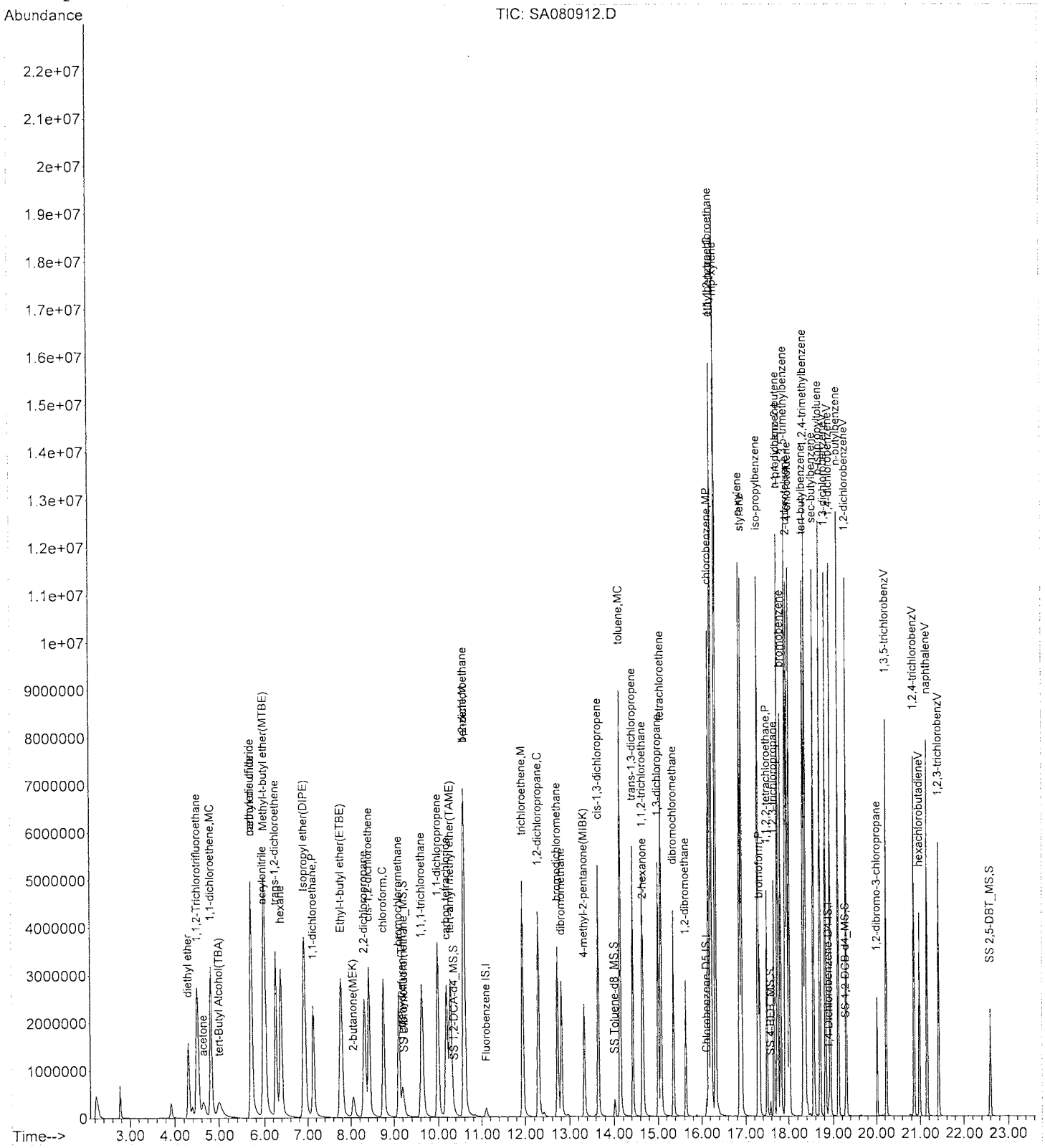
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	14.426	75	2920185	229.023	ug/L		99
51)	1,1,2-trichloroethane	14.645	83	1296004	183.241	ug/L		97
52)	2-hexanone	14.669	43	1635531	217.566	ug/L		98
53)	tetrachloroethene	15.071	166	2364411	182.012	ug/L		97
54)	1,3-dichloropropane	15.004	76	2717681	187.795	ug/L		97
55)	dibromochloromethane	15.356	129	2336975	205.950	ug/L		97
56)	1,2-dibromoethane	15.624	107	1935587	192.677	ug/L		96
57)	chlorobenzene	16.165	112	5236858	174.006	ug/L		94
58)	1,1,1,2-tetrachloroethane	16.220	131	1975807	179.783	ug/L		98
59)	ethylbenzene	16.232	91	7709594	168.463	ug/L		97
60)	mp-xylene	16.329	106	6050595	333.402	ug/L	#	86
61)	o-xylene	16.865	106	3224061	185.178	ug/L		97
62)	styrene	16.907	104	5077934	185.558	ug/L		90
63)	bromoform	17.327	173	1574208	215.485	ug/L		97
64)	iso-propylbenzene	17.284	105	7486212	179.575	ug/L		97
67)	bromobenzene	17.825	156	2309875	173.322	ug/L		94
68)	1,1,2,2-tetrachloroethane	17.497	83	2075112	184.494	ug/L		98
69)	1,2,3-trichloropropane	17.667	110	719571	182.081	ug/L		92
70)	t-1,4-dichloro-2-butene	17.752	53	57443	179.517	ug/L	#	1
71)	n-propylbenzene	17.752	91	8798703	168.130	ug/L		91
72)	2-chlorotoluene	17.971	91	5899886	168.347	ug/L		97
73)	4-chlorotoluene	18.020	91	5957232	168.084	ug/L		99
74)	1,3,5-trimethylbenzene	17.929	105	6627519	176.668	ug/L		99
75)	tert-butylbenzene	18.336	119	5991432	188.097	ug/L		96
76)	1,2,4-trimethylbenzene	18.379	105	6622527	171.024	ug/L		96
77)	sec-butylbenzene	18.567	105	7651720	174.894	ug/L		94
78)	1,3-dichlorobenzeneV	18.829	146	3974375	170.645	ug/L		97
79)	p-isopropyltoluene	18.707	119	6653147	177.370	ug/L		95
80)	1,4-dichlorobenzeneV	18.938	146	3977149	167.534	ug/L		96
81)	1,2-dichlorobenzeneV	19.303	146	3728322	170.033	ug/L		95
82)	n-butylbenzene	19.115	91	5688309	177.443	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.015	75	488483	210.851	ug/L		100
85)	1,3,5-trichlorobenzV	20.234	180	2300424	175.133	ug/L		98
86)	1,2,4-trichlorobenzV	20.860	180	2144792	182.219	ug/L		99
87)	hexachlorobutadieneV	20.988	225	797010	153.468	ug/L		98
88)	naphthaleneV	21.158	128	5673241	185.286	ug/L		96
89)	1,2,3-trichlorobenzV	21.420	180	1756765	171.915	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080912.D Vial: 12
Acq On : 9 Aug 2012 1:27 pm Operator: KJP/VG
Sample : 200 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:16 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080913.D Vial: 13
Acq On : 9 Aug 2012 1:57 pm Operator: KJP/VG
Sample : 100 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:52:57 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

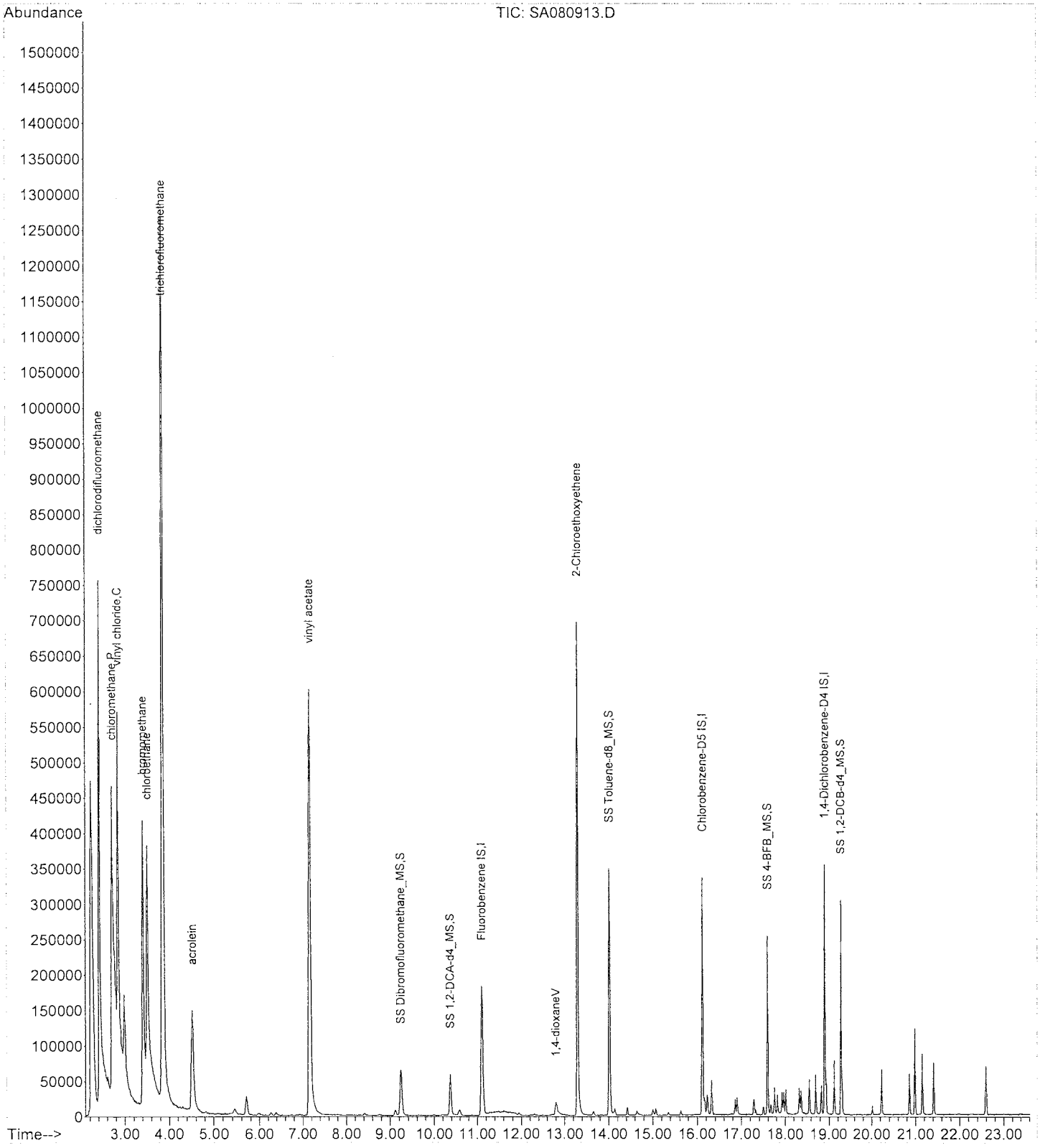
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.099	96	270239	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.116	117	181390	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.901	152	79662	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.238	111	71386	10.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.460%			
35) SS 1,2-DCA-d4_MS	10.375	65	63322	9.459	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.590%			
48) SS Toluene-d8_MS	14.012	98	252688	10.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.630%			
65) SS 4-BFB_MS	17.588	95	77521	9.672	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.720%			
83) SS 1,2-DCB-d4_MS	19.278	152	67084	10.050	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.500%			
90) SS 2,5-DBT_MS	0.000	250	0d	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.421	85	1239332m	103.491	ug/L	
3) chloromethane	2.707	50	1368455m	91.763	ug/L	
4) vinyl chloride	2.846	62	991436m	98.074	ug/L	
5) bromomethane	3.412	94	503143	107.406	ug/L	97
6) chloroethane	3.509	64	628948	111.221	ug/L	99
7) trichlorofluoromethane	3.856	101	1652029	97.409	ug/L	100
10) acrolein	4.525	56	240749	94.589	ug/L	96
22) vinyl acetate	7.158	43	1675131	127.681	ug/L	98
41) 1,4-dioxaneV	12.802	88	20470m	259.000	ug/L	
44) 2-Chloroethoxyethene	13.294	63	319225	129.953	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080913.D Vial: 13
Acq On : 9 Aug 2012 1:57 pm Operator: KJP/VG
Sample : 100 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:18 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080914.D Vial: 14
Acq On : 9 Aug 2012 2:27 pm Operator: KJP/VG
Sample : 200 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:53:00 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

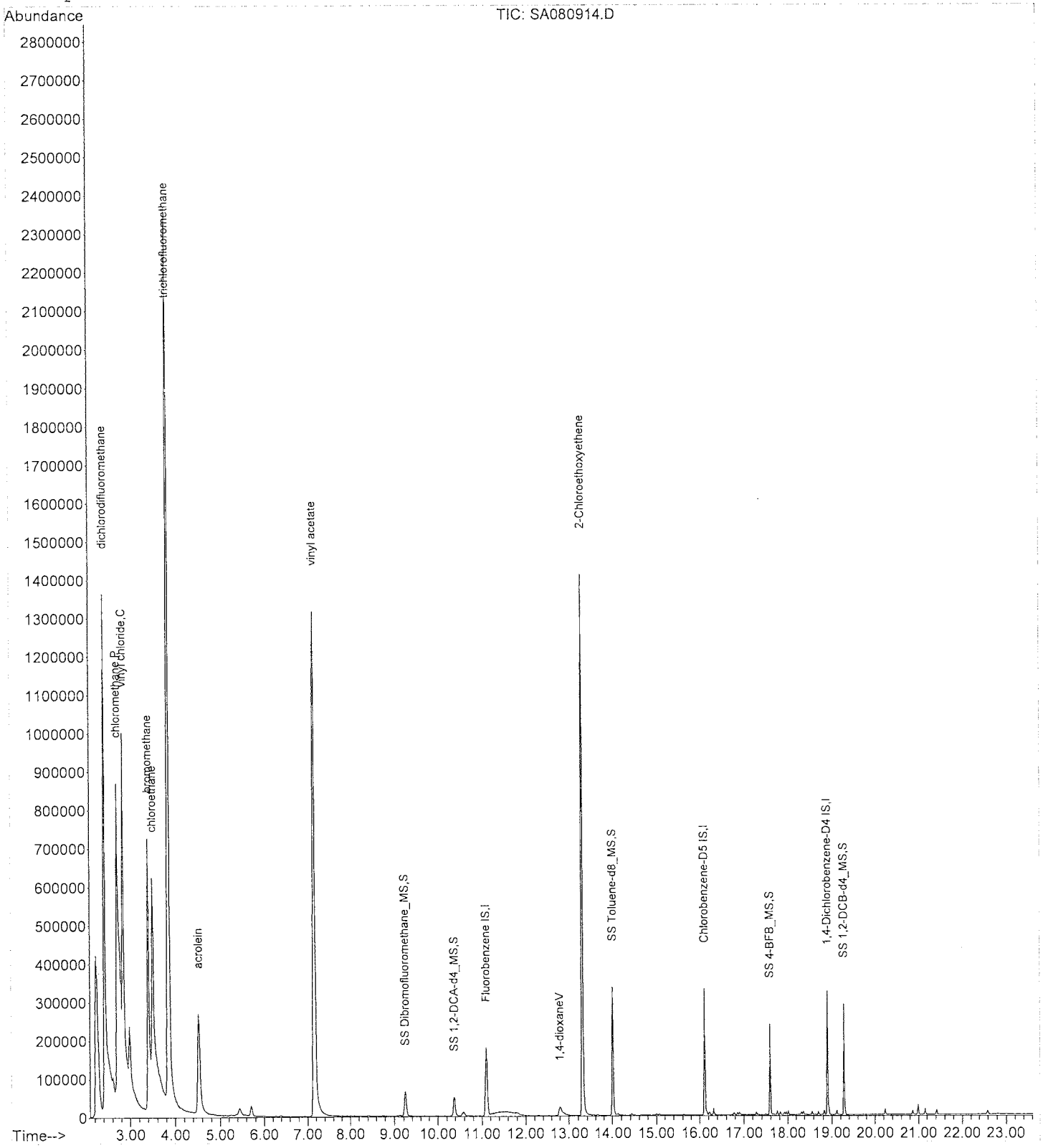
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	259933	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	170553	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	69318	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.239	111	66000	9.656	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.560%			
35) SS 1,2-DCA-d4_MS	10.377	65	59833	9.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.920%			
48) SS Toluene-d8_MS	14.013	98	239126	10.229	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.290%			
65) SS 4-BFB_MS	17.583	95	71248	9.455	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.550%			
83) SS 1,2-DCB-d4_MS	19.274	152	61480	10.585	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.850%			
90) SS 2,5-DBT_MS	0.000	250	0d	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.422	85	2415319	209.690	ug/L	98
3) chloromethane	2.708	50	2650914m	184.807	ug/L	
4) vinyl chloride	2.842	62	1668646	171.610	ug/L	99
5) bromomethane	3.408	94	971460	215.600	ug/L	99
6) chloroethane	3.505	64	1110446	204.153	ug/L	98
7) trichlorofluoromethane	3.851	101	3124771	191.552	ug/L	100
10) acrolein	4.526	56	460164	187.965	ug/L	97
22) vinyl acetate	7.160	43	3694590	292.773	ug/L	98
41) 1,4-dioxaneV	12.791	88	41259m	542.734	ug/L	
44) 2-Chloroethoxyethene	13.296	63	662561	280.414	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080914.D Vial: 14
Acq On : 9 Aug 2012 2:27 pm Operator: KJP/VG
Sample : 200 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:19 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080915.D Vial: 15
Acq On : 9 Aug 2012 2:57 pm Operator: KJP/VG
Sample : 300 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:53:03 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.103	96	271023	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.114	117	193941	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.905	152	83666	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.242	111	68422	9.601	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.010%			
35) SS 1,2-DCA-d4_MS	10.379	65	62174	9.261	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.610%			
48) SS Toluene-d8_MS	14.016	98	257103	9.672	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.720%			
65) SS 4-BFB_MS	17.585	95	86775	10.126	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.260%			
83) SS 1,2-DCB-d4_MS	19.276	152	69162	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.660%			
90) SS 2,5-DBT_MS	22.596	250	707601	284.358	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 710.895%#			
Target Compounds						Qvalue
8) diethyl ether	4.304	59	2173056	282.278	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	4.498	101	3445704	279.304	ug/L	96
11) acetone	4.650	43	1212076	211.274	ug/L	93
12) 1,1-dichloroethene	4.815	96	2743939m	274.995	ug/L	
13) tert-Butyl Alcohol(TBA)	5.015	59	1780238m	1533.344	ug/L	
15) methylene chloride	5.703	84	2760763	269.099	ug/L	90
16) carbon disulfide	5.709	76	7407904	274.346	ug/L	99
17) acrylonitrile	5.976	53	1498004	284.160	ug/L	94
18) Methyl-t-butyl ether(MTBE)	6.007	73	13830800	593.509	ug/L	98
19) trans-1,2-dichloroethene	6.268	96	2949870	280.727	ug/L	89
20) hexane	6.384	57	3907564	293.765	ug/L	100
21) Isopropyl ether(DIPE)	6.931	45	11087086	294.839	ug/L	98
23) 1,1-dichloroethane	7.132	63	6052944	289.752	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.782	59	8749592	347.433	ug/L	99
25) 2,2-dichloropropane	8.311	77	4794083	340.894	ug/L	99
26) cis-1,2-dichloroethene	8.421	96	3065753	284.173	ug/L	94
27) 2-butanone(MEK)	8.062	43	1626664	276.654	ug/L	94
28) bromochloromethane	9.120	128	1659990	284.564	ug/L	96
29) Tetrahydrofuran(THF)	9.205	42	1072301	316.971	ug/L	96
30) chloroform	8.761	83	5673409	276.451	ug/L	98
32) 1,1,1-trichloroethane	9.631	97	5398639	295.964	ug/L	98
33) carbon tetrachloride	10.197	117	5159400	309.220	ug/L	95
34) 1,1-dichloropropene	9.996	75	4246819	307.036	ug/L	100
36) tert-amyl methyl ether(TAM	10.288	73	6473206	360.279	ug/L	96
37) benzene	10.604	78	9742951	265.586	ug/L	99
38) 1,2-dichloroethane	10.598	62	4740406	272.967	ug/L	98
39) trichloroethene	11.942	95	3181304	277.392	ug/L	96
40) 1,2-dichloropropane	12.301	63	3032980	297.619	ug/L	91
42) dibromomethane	12.812	93	1822404	281.661	ug/L	97
43) bromodichloromethane	12.726	83	4320432	304.828	ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.341	58	1157754	316.993	ug/L	95
46) cis-1,3-dichloropropene	13.657	75	4274946	358.548	ug/L	99
49) toluene	14.137	91	9987738	249.162	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080915.D Vial: 15
Acq On : 9 Aug 2012 2:57 pm Operator: KJP/VG
Sample : 300 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:53:03 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

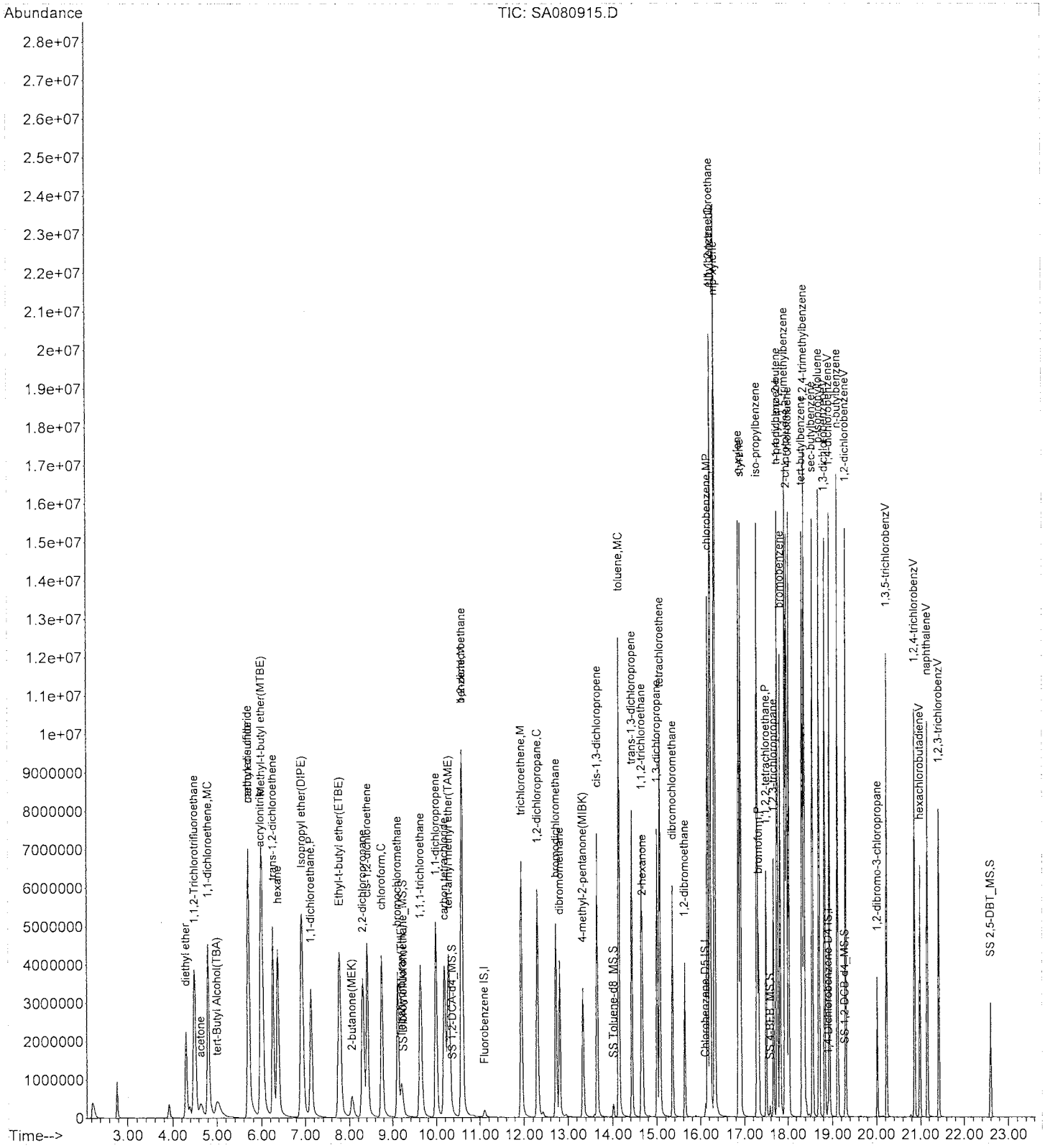
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) trans-1,3-dichloropropene	14.429	75	4205112	336.390 ug/L	100
51) 1,1,2-trichloroethane	14.648	83	1837968m	265.064 ug/L	
52) 2-hexanone	14.672	43	2206566	299.396 ug/L	99
53) tetrachloroethene	15.074	166	3343961	262.564 ug/L	98
54) 1,3-dichloropropane	15.007	76	3844354	270.960 ug/L	96
55) dibromochloromethane	15.360	129	3363742	302.361 ug/L	98
56) 1,2-dibromoethane	15.627	107	2708036	274.959 ug/L	95
57) chlorobenzene	16.169	112	7176465	243.221 ug/L	91
58) 1,1,1,2-tetrachloroethane	16.223	131	2705543	251.105 ug/L	98
59) ethylbenzene	16.235	91	10094354	224.981 ug/L	92
60) mp-xylene	16.333	106	8115913	456.146 ug/L #	77
61) o-xylene	16.868	106	4522587	264.954 ug/L	92
62) styrene	16.910	104	6878821	256.390 ug/L	88
63) bromoform	17.324	173	2241361	312.941 ug/L	97
64) iso-propylbenzene	17.287	105	9991667	244.466 ug/L	92
67) bromobenzene	17.823	156	3287454	266.791 ug/L	100
68) 1,1,2,2-tetrachloroethane	17.494	83	2953347	283.990 ug/L	98
69) 1,2,3-trichloropropane	17.671	110	1007061	275.609 ug/L	89
70) t-1,4-dichloro-2-butene	17.756	53	80672	272.671 ug/L #	1
71) n-propylbenzene	17.756	91	11575875	239.236 ug/L	85
72) 2-chlorotoluene	17.975	91	8035659m	247.988 ug/L	
73) 4-chlorotoluene	18.023	91	8106899	247.390 ug/L	95
74) 1,3,5-trimethylbenzene	17.932	105	8890972	256.333 ug/L	96
75) tert-butylbenzene	18.340	119	8115371	275.554 ug/L	95
76) 1,2,4-trimethylbenzene	18.382	105	8915401	249.013 ug/L	91
77) sec-butylbenzene	18.565	105	10164616	251.277 ug/L	93
78) 1,3-dichlorobenzeneV	18.832	146	5390899	250.341 ug/L	94
79) p-isopropyltoluene	18.711	119	8908342	256.860 ug/L	91
80) 1,4-dichlorobenzeneV	18.936	146	5335181	243.067 ug/L	93
81) 1,2-dichlorobenzeneV	19.306	146	5058363	249.504 ug/L	94
82) n-butylbenzene	19.118	91	7515258	253.551 ug/L	93
84) 1,2-dibromo-3-chloropropan	20.018	75	701811	327.637 ug/L	93
85) 1,3,5-trichlorobenzV	20.231	180	3293273	271.165 ug/L	100
86) 1,2,4-trichlorobenzV	20.863	180	3015360	277.073 ug/L	100
87) hexachlorobutadieneV	20.985	225	1227532	255.643 ug/L	96
88) naphthaleneV	21.155	128	7579998	267.748 ug/L	96
89) 1,2,3-trichlorobenzV	21.423	180	2533439	268.137 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080915.D Vial: 15
Acq On : 9 Aug 2012 2:57 pm Operator: KJP/VG
Sample : 300 M Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:21 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080916.D Vial: 16
Acq On : 9 Aug 2012 3:27 pm Operator: KJP/VG
Sample : 300 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:53:09 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

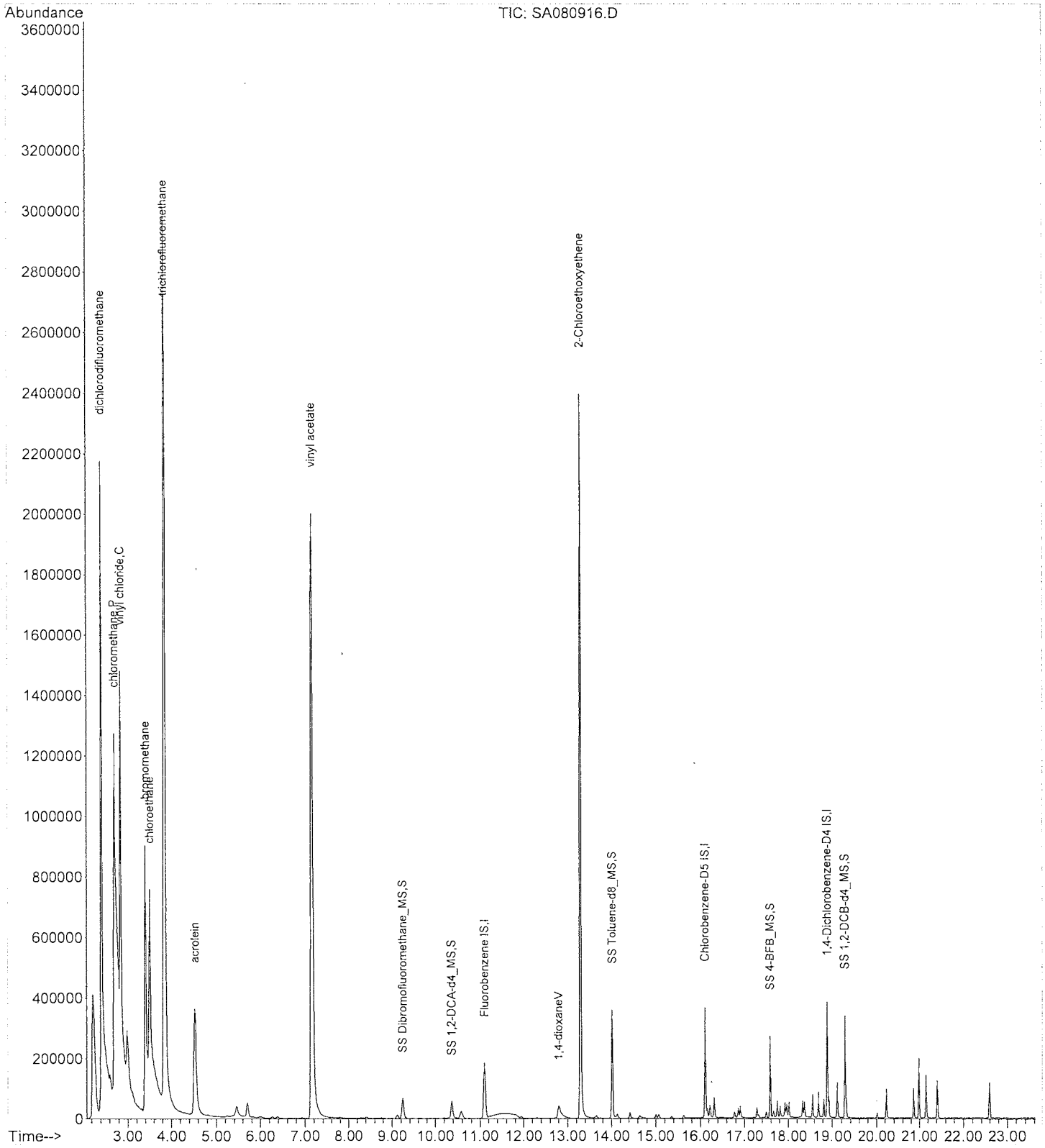
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	265418	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	191598	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.903	152	84828	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.245	111	69851	10.008	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.080%			
35) SS 1,2-DCA-d4_MS	10.371	65	66681	10.142	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.420%			
48) SS Toluene-d8_MS	14.013	98	258883	9.858	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.580%			
65) SS 4-BFB_MS	17.583	95	84877	10.026	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.260%			
83) SS 1,2-DCB-d4_MS	19.274	152	68761	9.674	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.740%			
90) SS 2,5-DBT_MS	0.000	250	0d	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.416	85	3763317	319.967	ug/L	99
3) chloromethane	2.708	50	3892333m	265.744	ug/L	
4) vinyl chloride	2.842	62	2410367	242.768	ug/L	100
5) bromomethane	3.401	94	1246080	270.833	ug/L	98
6) chloroethane	3.505	64	1423200	256.245	ug/L	98
7) trichlorofluoromethane	3.851	101	4141606	248.639	ug/L	97
10) acrolein	4.532	56	652222	260.910	ug/L	97
22) vinyl acetate	7.166	43	5721270	444.005	ug/L	98
41) 1,4-dioxaneV	12.797	88	71300m	918.521	ug/L	
44) 2-Chloroethoxyethene	13.296	63	1142370	473.492	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080916.D Vial: 16
Acq On : 9 Aug 2012 3:27 pm Operator: KJP/VG
Sample : 300 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:23 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080917.D Vial: 17
Acq On : 9 Aug 2012 3:56 pm Operator: KJP/VG
Sample : 400 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 12:53:15 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Fri Aug 10 12:29:35 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

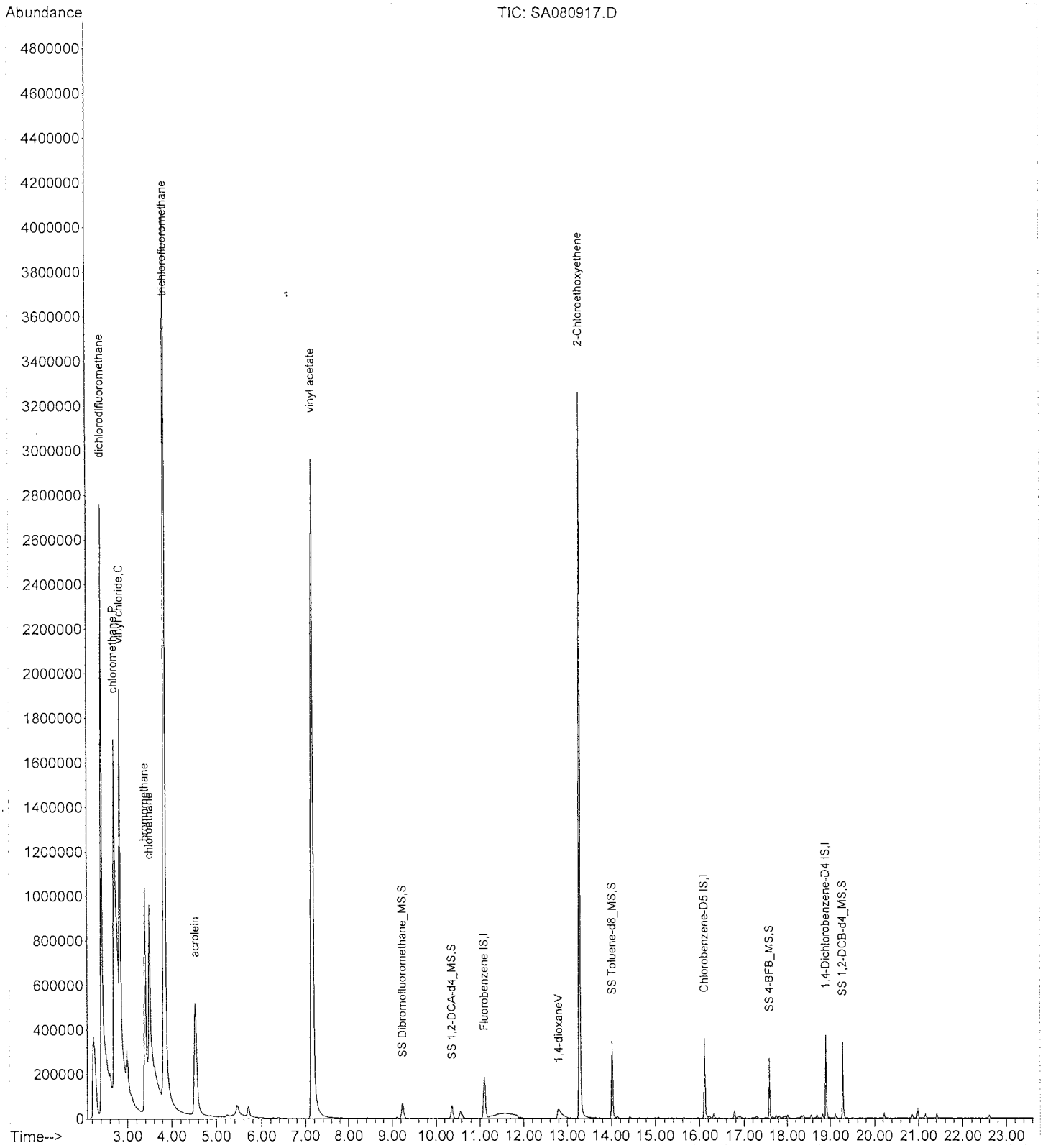
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	273015	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	188830	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.896	152	83166	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.239	111	72141	10.049	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.490%			
35) SS 1,2-DCA-d4_MS	10.376	65	68764	10.168	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.680%			
48) SS Toluene-d8_MS	14.013	98	251816	9.729	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.290%			
65) SS 4-BFB_MS	17.583	95	81622	9.783	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.830%			
83) SS 1,2-DCB-d4_MS	19.273	152	70476	10.113	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.130%			
90) SS 2,5-DBT_MS	0.000	250	0d	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.416	85	4993209	412.723	ug/L	99
3) chloromethane	2.708	50	5349060m	355.037	ug/L	
4) vinyl chloride	2.835	62	2947025	288.560	ug/L	100
5) bromomethane	3.401	94	1609913	340.174	ug/L	99
6) chloroethane	3.498	64	1907423	333.873	ug/L	100
7) trichlorofluoromethane	3.845	101	5519047	322.113	ug/L	96
10) acrolein	4.532	56	957974	372.557	ug/L	98
22) vinyl acetate	7.165	43	8359282	630.679	ug/L	98
41) 1,4-dioxaneV	12.797	88	93379m	1169.480	ug/L	
44) 2-Chloroethoxyethene	13.295	63	1542769	621.656	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA080917.D 3VID0809.M Tue Sep 11 08:16:57 2012

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG09812\SA080917.D Vial: 17
Acq On : 9 Aug 2012 3:56 pm Operator: KJP/VG
Sample : 400 G Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 10 13:24 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG1012\SA081006.D Vial: 6
Acq On : 10 Aug 2012 1:27 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 14 08:17:04 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.110	96	212841	10.000	ug/L		0.00
47) Chlorobenzene-D5 IS	16.115	117	145634	10.000	ug/L		0.00
66) 1,4-Dichlorobenzene-D4 IS	18.900	152	65605	10.000	ug/L		0.00
System Monitoring Compounds							
31) SS Dibromofluoromethane_MS	9.237	111	59148	10.564	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.640%				
35) SS 1,2-DCA-d4_MS	10.374	65	55306	10.468	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.680%				
48) SS Toluene-d8_MS	14.017	98	203878	10.242	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.420%				
65) SS 4-BFB_MS	17.586	95	65846	10.246	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.460%				
83) SS 1,2-DCB-d4_MS	19.277	152	54263	9.885	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.850%				
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L		
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.419	85	185810m	19.121	ug/L		
3) chloromethane	2.705	50	232075m	19.753	ug/L		
4) vinyl chloride	2.851	62	174009m	21.720	ug/L		
5) bromomethane	3.411	94	83206m	23.077	ug/L		
6) chloroethane	3.508	64	108919	23.359	ug/L		98
7) trichlorofluoromethane	3.861	101	308402	23.088	ug/L		95
8) diethyl ether	4.299	59	122774	20.308	ug/L		94
9) 1,1,2-Trichlorotrifluoroet	4.517	101	193717	19.995	ug/L		99
10) acrolein	4.517	56	33080	16.837	ug/L		99
11) acetone	4.627	43	66385	14.137	ug/L		90
12) 1,1-dichloroethene	4.822	96	157739	20.110	ug/L		95
13) tert-Butyl Alcohol(TBA)	4.998	59	80229	88.482	ug/L	#	65
15) methylene chloride	5.703	84	161050	19.585	ug/L		94
16) carbon disulfide	5.715	76	432531	19.784	ug/L		99
17) acrylonitrile	5.977	53	74625	18.025	ug/L		94
18) Methyl-t-butyl ether(MTBE)	5.995	73	386090	21.097	ug/L		97
19) trans-1,2-dichloroethene	6.263	96	160856	19.493	ug/L		97
21) Isopropyl ether(DIPE)	6.914	45	611112	20.694	ug/L		99
22) vinyl acetate	7.163	43	192978	16.336	ug/L		100
23) 1,1-dichloroethane	7.132	63	343424	20.933	ug/L		99
24) Ethyl-t-butyl ether(ETBE)	7.777	59	450393	22.412	ug/L		98
25) 2,2-dichloropropane	8.312	77	247103	22.374	ug/L		99
26) cis-1,2-dichloroethene	8.416	96	174184	20.559	ug/L		93
27) 2-butanone(MEK)	8.057	43	94262	19.959	ug/L		98
28) bromochloromethane	9.121	128	86838	18.956	ug/L		98
29) Tetrahydrofuran(THF)	9.206	42	55698	20.965	ug/L		98
30) chloroform	8.756	83	339009	21.035	ug/L		100
32) 1,1,1-trichloroethane	9.632	97	308933	21.566	ug/L		96
33) carbon tetrachloride	10.197	117	288322	22.004	ug/L		94
34) 1,1-dichloropropene	9.985	75	232945	21.445	ug/L		96
36) tert-amyl methyl ether(TAM	10.277	73	317005	21.906	ug/L	#	93
37) benzene	10.593	78	571577	19.840	ug/L		97
38) 1,2-dichloroethane	10.587	62	289413	21.221	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG1012\SA081006.D Vial: 6
Acq On : 10 Aug 2012 1:27 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 14 08:17:04 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

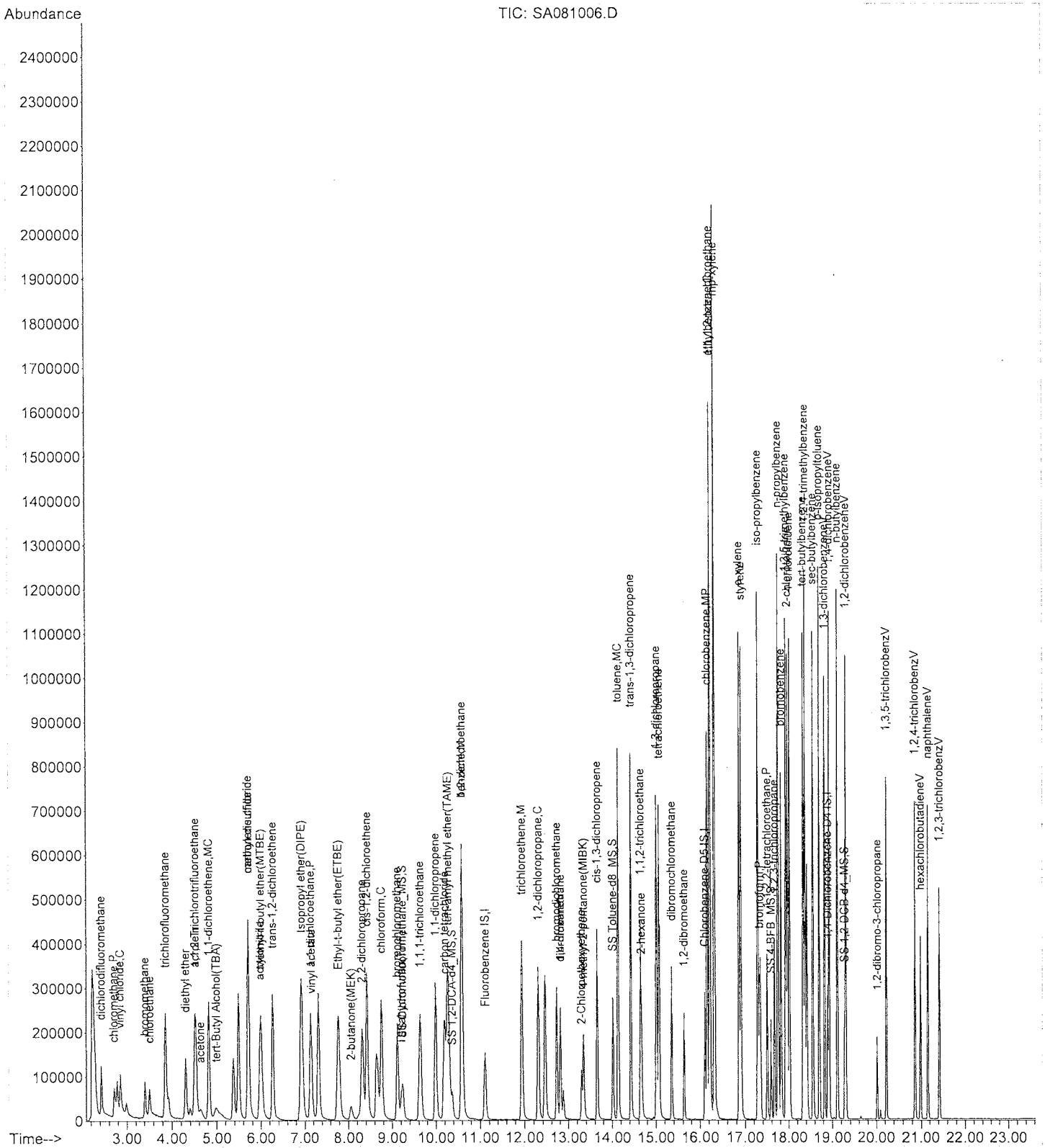
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	11.943	95	182520	20.265	ug/L		96
40)	1,2-dichloropropane	12.296	63	158903	19.855	ug/L		91
41)	1,4-dioxaneV	12.806	88	1387	32.074	ug/L	#	78
42)	dibromomethane	12.812	93	108706	21.394	ug/L		96
43)	bromodichloromethane	12.721	83	241868	21.730	ug/L		96
44)	2-Chloroethoxyethene	13.293	63	47681	22.138	ug/L		96
45)	4-methyl-2-pentanone(MIBK)	13.335	58	61941	21.595	ug/L		94
46)	cis-1,3-dichloropropene	13.652	75	230414	22.380	ug/L		93
49)	toluene	14.132	91	628228	20.871	ug/L		98
50)	trans-1,3-dichloropropene	14.424	75	219139	20.287	ug/L		96
51)	1,1,2-trichloroethane	14.643	83	110676	21.246	ug/L		99
52)	2-hexanone	14.667	43	133226	22.663	ug/L		98
53)	tetrachloroethene	15.069	166	211501	22.115	ug/L		99
54)	1,3-dichloropropane	15.002	76	224899	21.109	ug/L		98
55)	dibromochloromethane	15.354	129	184886	22.132	ug/L		97
56)	1,2-dibromoethane	15.622	107	155764	21.061	ug/L		97
57)	chlorobenzene	16.163	112	448536	20.244	ug/L		99
58)	1,1,1,2-tetrachloroethane	16.218	131	177848	21.981	ug/L		94
59)	ethylbenzene	16.224	91	745371	22.123	ug/L		99
60)	mp-xylene	16.321	106	568312	42.536	ug/L		96
61)	o-xylene	16.857	106	282530	22.042	ug/L		93
62)	styrene	16.905	104	455034	22.488	ug/L		100
63)	bromoform	17.325	173	123344	22.934	ug/L		97
64)	iso-propylbenzene	17.282	105	751375	23.988	ug/L		100
67)	bromobenzene	17.817	156	200125	20.712	ug/L		97
68)	1,1,2,2-tetrachloroethane	17.495	83	165135	20.251	ug/L		97
69)	1,2,3-trichloropropane	17.665	110	59373	20.722	ug/L		97
71)	n-propylbenzene	17.750	91	867493	22.864	ug/L		99
72)	2-chlorotoluene	17.963	91	507806	19.986	ug/L		97
73)	4-chlorotoluene	18.012	91	562909	21.907	ug/L		96
74)	1,3,5-trimethylbenzene	17.921	105	603173	22.177	ug/L		97
75)	tert-butylbenzene	18.328	119	512157	22.178	ug/L		99
76)	1,2,4-trimethylbenzene	18.371	105	643595	22.925	ug/L		94
77)	sec-butylbenzene	18.559	105	702805	22.157	ug/L		96
78)	1,3-dichlorobenzeneV	18.827	146	357466	21.170	ug/L		98
79)	p-isopropyltoluene	18.699	119	631622	23.226	ug/L		98
80)	1,4-dichlorobenzeneV	18.930	146	376300	21.864	ug/L		98
81)	1,2-dichlorobenzeneV	19.301	146	339051	21.328	ug/L		99
82)	n-butylbenzene	19.113	91	528447	22.737	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.019	75	37323	22.351	ug/L		97
85)	1,3,5-trichlorobenzV	20.232	180	203686	21.388	ug/L		99
86)	1,2,4-trichlorobenzV	20.858	180	190558	22.330	ug/L		96
87)	hexachlorobutadieneV	20.986	225	72709	23.029	ug/L		99
88)	naphthaleneV	21.156	128	484557	21.828	ug/L		98
89)	1,2,3-trichlorobenzV	21.418	180	151958	20.511	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG1012\SA081006.D Vial: 6
Acq On : 10 Aug 2012 1:27 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 14 8:54 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



VOAMS5 Analysis Run Log

IS/SS ID= V- 3966 New IS/SS
Standard ID= V- 3968 A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3963 (L) 3962 (G)

Analyst: [signature]

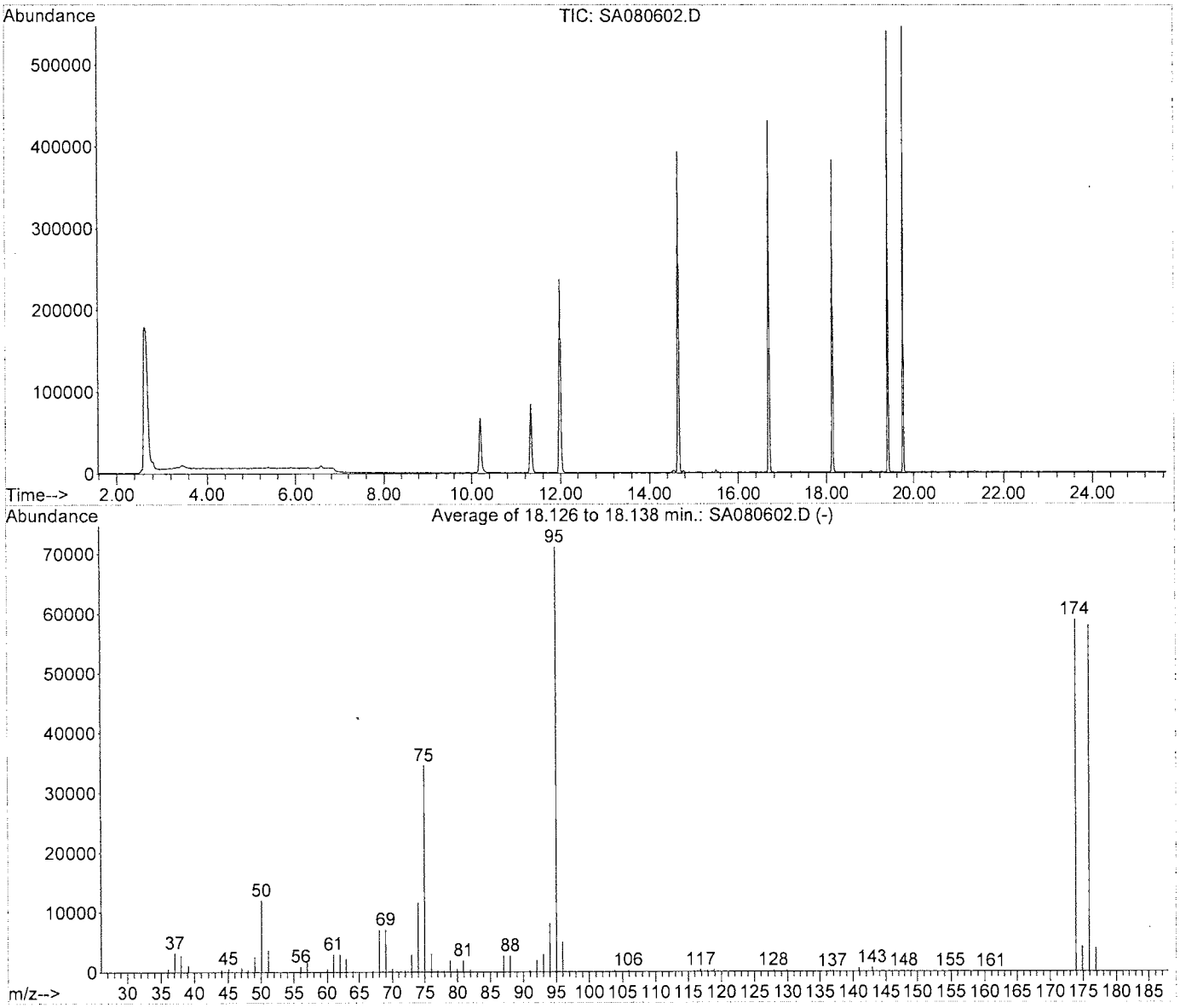
Date: 8/6/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A080601	BFB 25ng					VOCMS		AutoFind		✓
2		BFB					VOCMS		AutoFind		✓
3		0.2					VOCMS				
4		0.5					VOCMS				
5		1					VOCMS				
6		2					VOCMS				
7		5					VOCMS				
8		10					VOCMS				
9		20					VOCMS				
10		50					VOCMS				
11		50 G					VOCMS				
12		100					VOCMS				
13		100 G					VOCMS				
14		200					VOCMS				
15		200 G					VOCMS				
16		300					VOCMS				
17		300 G					VOCMS				
18		400 G					VOCMS				
19		Blank					VOCMS				
20		|					VOCMS				
21		|					VOCMS				
22		|					VOCMS				
23		LCS 20					VOCMS				
							VOCMS				
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Samples removed from autosampler, ✓ order ✓ and pH N/A verified by [signature] 8/7/12 1-23

BFB

Data File : W:\1\DATA\AUG12\AUG0612\SA080602.D Vial: 2
Acq On : 6 Aug 2012 8:32 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



Spectrum Information: Average of 18.126 to 18.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	12056	PASS
75	95	30	60	48.6	34584	PASS
95	95	100	100	100.0	71146	PASS
96	95	5	9	7.1	5038	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.8	58914	PASS
175	174	5	9	7.1	4187	PASS
176	174	95	101	98.3	57901	PASS
177	176	5	9	6.8	3932	PASS

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
1)	Fluorobenzene IS																		
2)	dichlorodifluoromethane	0.347	0.351	0.329	0.323	0.316	NA	NA	NA	0.321	NA	NA	NA	0.324	NA	0.330	0.332	0.330	3.56 ok
3) P	chloromethane	0.353	0.330	0.315	0.301	0.291	NA	NA	NA	0.298	NA	NA	NA	0.289	NA	0.290	0.288	0.306	7.33 ok
4) C	vinyl chloride	0.183	0.181	0.159	0.156	0.144	NA	NA	NA	0.146	0.185	NA	0.201	0.136	NA	0.126	NA	0.162	15.22 #
5)	bromomethane	0.202	0.191	0.182	0.186	0.187	NA	NA	NA	0.201	NA	NA	NA	0.205	NA	0.211	0.208	0.197	5.35 ok
6)	chloroethane	0.201	0.193	0.179	0.181	0.176	NA	NA	NA	0.180	NA	NA	NA	0.178	NA	0.181	0.179	0.183	4.56 ok
7)	trichlorofluoromethane	0.447	0.436	0.423	0.421	0.409	NA	NA	NA	0.422	NA	NA	NA	0.418	NA	0.420	0.410	0.423	2.85 ok
8)	diethyl ether	0.209	0.215	0.201	0.197	0.196	0.196	0.197	0.200	NA	NA	0.186	NA	NA	NA	NA	NA	0.200	4.14 ok
9)	1,1,2-Trichlorotrifluoroethane	0.315	0.306	0.299	0.291	0.286	0.286	0.288	0.291	NA	NA	0.266	NA	NA	NA	NA	NA	0.292	4.80 ok
10)	acrolein	NA	NA	0.017	0.012	0.008	NA	NA	NA	0.009	NA	NA	NA	NA	NA	NA	0.008	0.011	35.64 #
11)	acetone	NA	NA	NA	0.055	0.055	0.054	0.058	0.056	NA	NA	0.059	NA	NA	NA	NA	NA	0.056	3.36 ok
12) C	1,1-dichloroethene	0.272	0.273	0.267	0.259	0.257	0.256	0.260	0.263	NA	0.296	0.246	0.368	NA	NA	NA	NA	0.274	12.23 ok
13)	tert-Butyl Alcohol(TBA)	-0.121	0.023	0.021	0.020	0.020	0.020	0.021	0.021	NA	NA	0.020	NA	NA	NA	NA	NA	0.005	4.78 ok
14)	Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
15)	methylene chloride	0.321	0.306	0.293	0.282	0.278	0.274	0.276	0.279	NA	NA	0.257	NA	NA	NA	NA	NA	0.285	6.60 ok
16)	carbon disulfide	0.871	0.760	0.718	0.687	0.691	0.700	0.726	0.734	NA	NA	0.679	NA	NA	NA	NA	NA	0.730	8.06 ok
17)	acrylonitrile	NA	0.102	0.096	0.089	0.089	0.088	0.089	0.089	NA	NA	0.084	NA	NA	NA	NA	NA	0.091	6.07 ok
18)	Methyl-t-butyl ether(MTBE)	0.749	0.723	0.709	0.682	0.691	0.693	0.693	0.699	NA	0.788	0.654	0.824	NA	NA	NA	NA	0.719	6.96 ok
19)	trans-1,2-dichloroethene	0.267	0.269	0.258	0.252	0.251	0.257	0.265	0.276	NA	NA	0.263	NA	NA	NA	NA	NA	0.262	3.15 ok
20)	hexane	0.366	0.343	0.349	0.330	0.321	0.323	0.337	0.339	NA	NA	0.325	NA	NA	NA	NA	NA	0.337	4.31 ok
21)	Isopropyl ether(DIPE)	0.851	0.836	0.818	0.773	0.774	0.784	0.797	0.809	NA	NA	0.782	NA	NA	NA	NA	NA	0.803	3.48 ok
22)	vinyl acetate	0.583	0.509	0.448	0.449	0.409	NA	NA	NA	0.488	NA	NA	NA	0.460	NA	0.470	0.466	0.476	10.23 ok
23) P	1,1-dichloroethane	0.486	0.483	0.473	0.451	0.448	0.450	0.458	0.469	NA	NA	0.445	NA	NA	NA	NA	NA	0.462	3.38 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M

Title : VOAMS5

Last Update : Wed Aug 08 13:56:55 2012

Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD	
24)	Ethyl-t-butyl ether(ETBE)	0.777	0.766	0.751	0.712	0.713	0.727	0.746	0.771	NA	NA	0.753	NA	NA	NA	NA	NA	0.746	3.22	ok
25)	2,2-dichloropropane	0.420	0.395	0.396	0.383	0.380	0.384	0.406	0.414	NA	NA	0.392	NA	NA	NA	NA	NA	0.397	3.54	ok
26)	cis-1,2-dichloroethene	0.378	0.371	0.347	0.341	0.343	0.347	0.352	0.360	NA	NA	0.341	NA	NA	NA	NA	NA	0.353	3.79	ok
27)	2-butanone(MEK)	-0.123	0.117	0.111	0.090	0.089	0.088	0.092	0.094	NA	NA	0.093	NA	NA	NA	NA	NA	0.072	11.34	ok
28)	bromochloromethane	0.141	0.141	0.139	0.136	0.138	0.140	0.144	0.152	NA	NA	0.148	NA	NA	NA	NA	NA	0.142	3.64	ok
29)	Tetrahydrofuran(THF)	-0.086	0.075	0.062	0.057	0.059	0.058	0.060	0.061	NA	NA	0.059	NA	NA	NA	NA	NA	0.045	9.39	ok
30) C	chloroform	0.484	0.476	0.464	0.445	0.448	0.453	0.465	0.481	NA	NA	0.461	NA	NA	NA	NA	NA	0.464	3.03	ok
31)	SS Dibromofluoromethane_MS	0.225	0.227	0.223	0.227	0.229	0.232	0.231	0.233	0.228	0.229	0.229	0.226	0.218	0.211	0.218	0.213	0.225	2.94	ok
32)	1,1,1-trichloroethane	0.405	0.407	0.398	0.391	0.393	0.407	0.418	0.441	NA	NA	0.416	NA	NA	NA	NA	NA	0.408	3.77	ok
33)	carbon tetrachloride	0.333	0.327	0.337	0.339	0.352	0.372	0.389	0.415	NA	NA	0.393	NA	NA	NA	NA	NA	0.362	8.77	ok
34)	1,1-dichloropropene	0.411	0.398	0.396	0.377	0.376	0.381	0.390	0.405	NA	NA	0.383	NA	NA	NA	NA	NA	0.391	3.16	ok
35)	SS 1,2-DCA-d4_MS	0.278	0.278	0.275	0.278	0.275	0.273	0.266	0.267	0.276	0.278	0.256	0.274	0.273	0.269	0.275	0.268	0.272	2.18	ok
36)	tert-amyl methyl ether(TAME)	0.732	0.717	0.709	0.678	0.683	0.707	0.732	0.774	NA	NA	0.764	NA	NA	NA	NA	NA	0.722	4.52	ok
37)	benzene	1.215	1.192	1.160	1.100	1.093	1.117	1.159	1.203	NA	NA	1.138	NA	NA	NA	NA	NA	1.153	3.86	ok
38)	1,2-dichloroethane	0.399	0.385	0.368	0.356	0.355	0.355	0.355	0.353	NA	NA	0.322	NA	NA	NA	NA	NA	0.361	6.05	ok
39)	trichloroethene	0.326	0.319	0.313	0.295	0.299	0.303	0.317	0.337	NA	0.329	0.323	-0.077	NA	NA	NA	NA	0.280	4.34	ok
40) C	1,2-dichloropropane	0.289	0.278	0.273	0.263	0.263	0.268	0.275	0.287	NA	NA	0.278	NA	NA	NA	NA	NA	0.275	3.44	ok
41)	1,4-dioxaneV	NA	NA	0.003	0.003	0.002	NA	NA	NA	0.002	NA	NA	NA	0.002	0.003	0.002	0.003	0.003	5.25	ok
42)	dibromomethane	0.171	0.168	0.163	0.160	0.161	0.164	0.170	0.177	NA	NA	0.171	NA	NA	NA	NA	NA	0.167	3.42	ok
43)	bromodichloromethane	0.328	0.314	0.315	0.319	0.332	0.350	0.368	0.392	NA	0.326	0.378	0.366	NA	NA	NA	NA	0.344	8.06	ok
44)	2-Chloroethoxyethene	NA	0.090	0.105	0.104	0.111	NA	NA	NA	0.120	NA	NA	NA	0.125	NA	0.138	NA	0.113	14.05	ok
45)	4-methyl-2-pentanone(MIBK)	0.077	0.076	0.078	0.073	0.075	0.077	0.081	0.083	NA	NA	0.080	NA	NA	NA	NA	NA	0.078	3.89	ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M

Title : VOAMS5

Last Update : Wed Aug 08 13:56:55 2012

Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD	
46)	cis-1,3-dichloropropene	0.384	0.377	0.388	0.385	0.399	0.418	0.443	0.469	NA	0.391	0.455	0.444	NA	NA	NA	NA	0.414	7.99	ok
47)	Chlorobenzene-D5 IS																			
48)	SS Toluene-d8_MS	1.291	1.285	1.294	1.280	1.298	1.273	1.279	1.262	1.301	1.280	1.264	1.289	1.304	1.276	1.279	1.273	1.283	0.96	ok
49) C	toluene	1.750	1.672	1.650	1.561	1.570	1.594	1.662	1.664	NA	NA	1.537	NA	NA	NA	NA	NA	1.629	4.18	ok
50)	trans-1,3-dichloropropene	0.468	0.465	0.492	0.485	0.507	0.538	0.571	0.582	NA	0.469	0.568	0.523	NA	NA	NA	NA	0.515	8.54	ok
51)	1,1,2-trichloroethane	0.274	0.258	0.262	0.247	0.248	0.251	0.264	0.273	NA	NA	0.266	NA	NA	NA	NA	NA	0.260	3.94	ok
52)	2-hexanone	-0.205	0.195	0.196	0.170	0.169	0.173	0.175	0.169	NA	NA	0.161	NA	NA	NA	NA	NA	0.134	7.21	ok
53)	tetrachloroethene	0.445	0.431	0.431	0.412	0.416	0.425	0.451	0.459	NA	0.461	0.441	0.538	NA	NA	NA	NA	0.446	7.71	ok
54)	1,3-dichloropropane	0.576	0.554	0.554	0.522	0.528	0.535	0.551	0.562	NA	0.582	0.548	0.664	NA	NA	NA	NA	0.562	6.87	ok
55)	dibromochloromethane	0.273	0.279	0.298	0.307	0.332	0.370	0.404	0.426	NA	NA	0.413	NA	NA	NA	NA	NA	0.345	17.38	#
56)	1,2-dibromoethane	0.328	0.316	0.327	0.311	0.317	0.326	0.343	0.349	NA	NA	0.345	NA	NA	NA	NA	NA	0.329	4.13	ok
57) P	chlorobenzene	1.201	1.166	1.155	1.093	1.104	1.138	1.192	1.194	NA	NA	1.093	NA	NA	NA	NA	NA	1.148	3.80	ok
58)	1,1,1,2-tetrachloroethane	0.333	0.344	0.363	0.362	0.382	0.414	0.432	0.392	NA	NA	0.331	NA	NA	NA	NA	NA	0.372	9.52	ok
59) C	ethylbenzene	1.925	1.894	1.894	1.818	1.856	1.918	1.973	1.743	NA	NA	1.418	NA	NA	NA	NA	NA	1.827	9.15	ok
60)	mp-xylene	0.764	0.756	0.771	0.741	0.761	0.794	0.801	0.666	NA	0.777	0.537	0.874	NA	NA	NA	NA	0.749	11.47	ok
61)	o-xylene	0.733	0.731	0.736	0.710	0.719	0.745	0.785	0.773	NA	NA	0.693	NA	NA	NA	NA	NA	0.736	3.94	ok
62)	styrene	1.148	1.156	1.181	1.142	1.179	1.232	1.298	1.262	NA	NA	1.114	NA	NA	NA	NA	NA	1.190	5.14	ok
63) P	bromoform	0.143	0.142	0.158	0.169	0.195	0.225	0.251	0.265	NA	NA	0.256	NA	NA	NA	NA	NA	0.200	24.88	#
64)	iso-propylbenzene	1.746	1.735	1.745	1.688	1.724	1.792	1.859	1.746	NA	NA	1.515	NA	NA	NA	NA	NA	1.728	5.38	ok
65)	SS 4-BFB_MS	0.495	0.501	0.499	0.499	0.505	0.503	0.509	0.500	0.498	0.502	0.496	0.499	0.492	0.485	0.492	0.492	0.498	1.17	ok
66)	1,4-Dichlorobenzene-D4 IS																			
67)	bromobenzene	0.914	0.904	0.888	0.855	0.851	0.890	0.925	0.936	NA	NA	0.884	NA	NA	NA	NA	NA	0.894	3.24	ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
68) P	1,1,2,2-tetrachloroethane	0.657	0.637	0.631	0.619	0.596	0.619	0.620	0.615	NA	NA	0.601	NA	NA	NA	NA	NA	0.622	2.97 ok
69)	1,2,3-trichloropropane	0.247	0.222	0.224	0.210	0.210	0.214	0.221	0.224	NA	NA	0.219	NA	NA	NA	NA	NA	0.221	4.98 ok
70)	trans-1,4-dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
71)	n-propylbenzene	4.090	4.047	4.064	3.936	3.885	3.996	4.049	3.680	NA	NA	3.120	NA	NA	NA	NA	NA	3.874	8.00 ok
72)	2-chlorotoluene	2.609	2.568	2.512	2.406	2.394	2.459	2.487	2.409	NA	NA	2.097	NA	NA	NA	NA	NA	2.438	6.06 ok
73)	4-chlorotoluene	2.585	2.514	2.481	2.411	2.400	2.488	2.546	2.365	NA	NA	2.117	NA	NA	NA	NA	NA	2.434	5.70 ok
74)	1,3,5-trimethylbenzene	2.286	2.273	2.429	2.424	2.549	2.802	2.919	2.774	NA	NA	2.372	NA	NA	NA	NA	NA	2.536	9.42 ok
75)	tert-butylbenzene	2.579	2.552	2.551	2.509	2.478	2.604	2.646	2.471	NA	NA	2.178	NA	NA	NA	NA	NA	2.507	5.43 ok
76)	1,2,4-trimethylbenzene	2.174	2.214	2.382	2.368	2.503	2.814	2.944	2.751	NA	NA	2.341	NA	NA	NA	NA	NA	2.499	10.99 ok
77)	sec-butylbenzene	3.523	3.524	3.525	3.469	3.472	3.640	3.646	3.298	NA	NA	2.744	NA	NA	NA	NA	NA	3.427	8.05 ok
78)	1,3-dichlorobenzeneV	1.727	1.660	1.650	1.613	1.614	1.697	1.766	1.689	NA	NA	1.493	NA	NA	NA	NA	NA	1.657	4.78 ok
79)	p-isopropyltoluene	2.802	2.861	2.956	2.974	3.003	3.184	3.202	2.843	NA	NA	2.378	NA	NA	NA	NA	NA	2.911	8.39 ok
80)	1,4-dichlorobenzeneV	1.692	1.661	1.656	1.612	1.604	1.687	1.764	1.678	NA	NA	1.478	NA	NA	NA	NA	NA	1.648	4.81 ok
81)	1,2-dichlorobenzeneV	1.619	1.573	1.538	1.484	1.488	1.566	1.620	1.562	NA	NA	1.404	NA	NA	NA	NA	NA	1.539	4.55 ok
82)	n-butylbenzene	2.256	2.347	2.453	2.446	2.460	2.609	2.639	2.417	NA	NA	2.035	NA	NA	NA	NA	NA	2.407	7.59 ok
83)	SS 1,2-DCB-d4_MS	0.939	0.948	0.946	0.946	0.942	0.955	0.938	0.939	0.939	0.944	0.946	0.945	0.937	0.941	0.942	0.932	0.942	0.57 ok
84)	1,2-dibromo-3-chloropropane	0.100	0.098	0.105	0.113	0.122	0.137	0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.116	15.13 #
85)	1,3,5-trichlorobenzV	0.911	0.914	0.918	0.898	0.917	0.983	1.028	1.038	NA	NA	0.977	NA	NA	NA	NA	NA	0.954	5.65 ok
86)	1,2,4-trichlorobenzV	0.727	0.740	0.759	0.749	0.781	0.833	0.874	0.911	NA	NA	0.880	NA	NA	NA	NA	NA	0.806	8.62 ok
87)	hexachlorobutadieneV	0.352	0.349	0.349	0.344	0.346	0.367	0.388	0.405	NA	0.373	0.393	0.382	NA	NA	NA	NA	0.368	5.84 ok
88)	naphthaleneV	NA	1.465	1.614	1.737	1.851	2.009	2.102	2.188	NA	NA	2.098	NA	NA	NA	NA	NA	1.883	13.79 ok
89)	1,2,3-trichlorobenzV	0.636	0.644	0.659	0.648	0.675	0.720	0.747	0.789	NA	NA	0.776	NA	NA	NA	NA	NA	0.698	8.53 ok
90)	SS 2,5-DBT_MS	NA	NA	0.116	0.136	0.165	0.211	0.215	0.242	NA	NA	0.257	NA	NA	NA	NA	NA	0.192	28.05 #

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:03:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

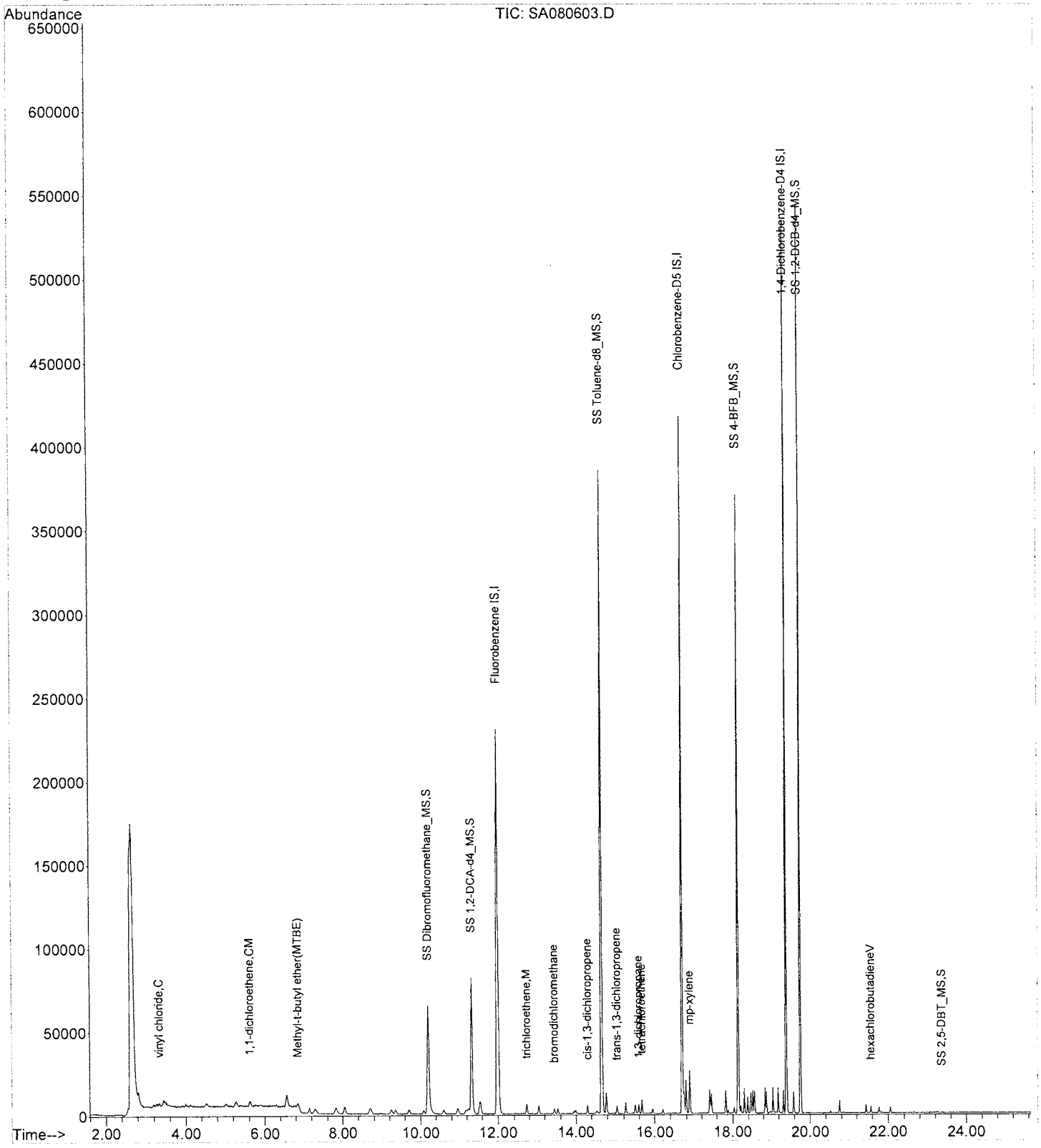
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	321600	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	237612	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	125934	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72699	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.85%			
35) SS 1,2-DCA-d4_MS	11.33	65	88149	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.54%			
48) SS Toluene-d8_MS	14.65	98	306251	10.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.29%			
65) SS 4-BFB_MS	18.13	95	118518	9.70	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.03%			
83) SS 1,2-DCB-d4_MS	19.75	152	118999	10.23	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.26%			
90) SS 2,5-DBT_MS	23.36	250	39	2.88	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.20%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	1293	0.183	ug/L	96
12) 1,1-dichloroethene	5.62	96	2366	0.348	ug/L #	81
18) Methyl-t-butyl ether(MTBE)	6.86	73	10606	0.508	ug/L #	93
39) trichloroethene	12.73	95	2485	0.264	ug/L	97
43) bromodichloromethane	13.44	83	2352	0.228	ug/L	98
46) cis-1,3-dichloropropene	14.30	75	2857	0.221	ug/L #	73
50) trans-1,3-dichloropropene	15.03	75	2486	0.211	ug/L #	84
53) tetrachloroethene	15.67	166	2555	0.267	ug/L	96
54) 1,3-dichloropropane	15.59	76	3156m	0.247	ug/L	
60) mp-xylene	16.88	106	8303	0.483	ug/L	98
87) hexachlorobutadieneV	21.56	225	962	0.211	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 13:49 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:05:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

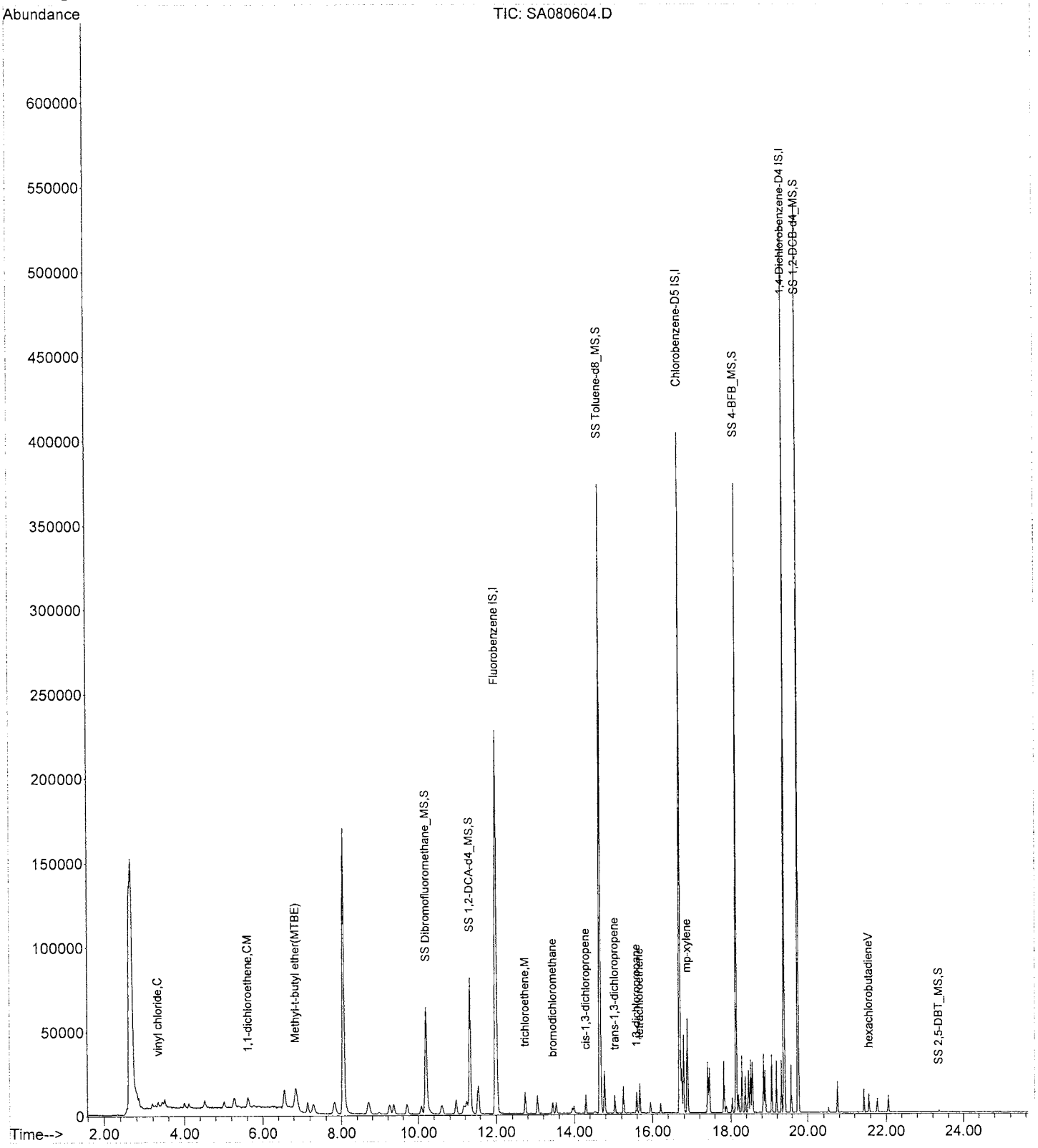
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316040	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	236074	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124392	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72400	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.20%			
35) SS 1,2-DCA-d4_MS	11.33	65	87751	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.85%			
48) SS Toluene-d8_MS	14.65	98	302232	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	118398	9.76	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.56%			
83) SS 1,2-DCB-d4_MS	19.75	152	117461	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.19%			
90) SS 2,5-DBT_MS	23.36	250	327	2.99	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.48%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	2922	0.420	ug/L	99
12) 1,1-dichloroethene	5.62	96	4670	0.699	ug/L	89
18) Methyl-t-butyl ether(MTBE)	6.85	73	24890	1.214	ug/L	96
39) trichloroethene	12.73	95	5202	0.562	ug/L	95
43) bromodichloromethane	13.44	83	5151	0.507	ug/L	96
46) cis-1,3-dichloropropene	14.30	75	6183	0.486	ug/L #	85
50) trans-1,3-dichloropropene	15.03	75	5532	0.473	ug/L #	85
53) tetrachloroethene	15.67	166	5436	0.572	ug/L	97
54) 1,3-dichloropropane	15.59	76	6870m	0.541	ug/L	
60) mp-xylene	16.89	106	18338	1.073	ug/L	97
87) hexachlorobutadieneV	21.56	225	2318	0.516	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 13:50 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316523	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	235668	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124287	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.20	111	71321	10.05 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.53%		
35) SS 1,2-DCA-d4_MS	11.33	65	87915	10.19 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%		
48) SS Toluene-d8_MS	14.65	98	304199	10.04 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.44%		
65) SS 4-BFB_MS	18.13	95	116550	9.62 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.20%		
83) SS 1,2-DCB-d4_MS	19.75	152	116665	10.16 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.58%		
90) SS 2,5-DBT_MS	23.36	250	779	3.16 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.90%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	10987	1.063 ug/L	99
3) chloromethane	3.20	50	11177	1.243 ug/L	99
4) vinyl chloride	3.34	62	5803	0.832 ug/L	99
5) bromomethane	3.99	94	6397	1.222 ug/L	93
6) chloroethane	4.11	64	6376	1.340 ug/L	94
7) trichlorofluoromethane	4.52	101	14147	1.230 ug/L	98
8) diethyl ether	5.02	59	6606	1.214 ug/L #	84
9) 1,1,2-Trichlorotrifluoroet	5.28	101	9980	1.309 ug/L	98
10) acrolein	5.28	56	888	1.006 ug/L #	30
11) acetone	5.39	43	3469	Below Cal	96
12) 1,1-dichloroethene	5.62	96	8605	1.286 ug/L	94
13) tert-Butyl Alcohol(TBA)	5.78	59	3824m	6.069 ug/L	
15) methylene chloride	6.56	84	10149	1.393 ug/L	95
16) carbon disulfide	6.57	76	27555	1.505 ug/L #	92
17) acrylonitrile	6.82	53	3487	1.258 ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	47439	2.310 ug/L	99
19) trans-1,2-dichloroethene	7.15	96	8464	1.071 ug/L	97
20) hexane	7.29	57	11572	1.038 ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	26945	1.090 ug/L	95
22) vinyl acetate	8.05	43	18443	1.913 ug/L	97
23) 1,1-dichloroethane	8.04	63	15382	1.071 ug/L #	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	24595	1.003 ug/L #	94
25) 2,2-dichloropropane	9.25	77	13302	1.097 ug/L #	91
26) cis-1,2-dichloroethene	9.35	61	11954	1.050 ug/L	98
27) 2-butanone(MEK)	8.96	43	3906	1.169 ug/L	92
28) bromochloromethane	10.07	128	4477	1.073 ug/L	99
29) Tetrahydrofuran(THF)	10.15	42	2714	1.359 ug/L #	87
30) chloroform	9.71	83	15315	1.068 ug/L	98
32) 1,1,1-trichloroethane	10.60	97	12810	1.027 ug/L	97
33) carbon tetrachloride	11.17	117	10537	1.029 ug/L #	98
34) 1,1-dichloropropene	10.97	75	13006	1.048 ug/L #	88
36) tert-amyl methyl ether(TAM	11.25	73	23160	1.052 ug/L	94
37) benzene	11.56	78	38463	1.101 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

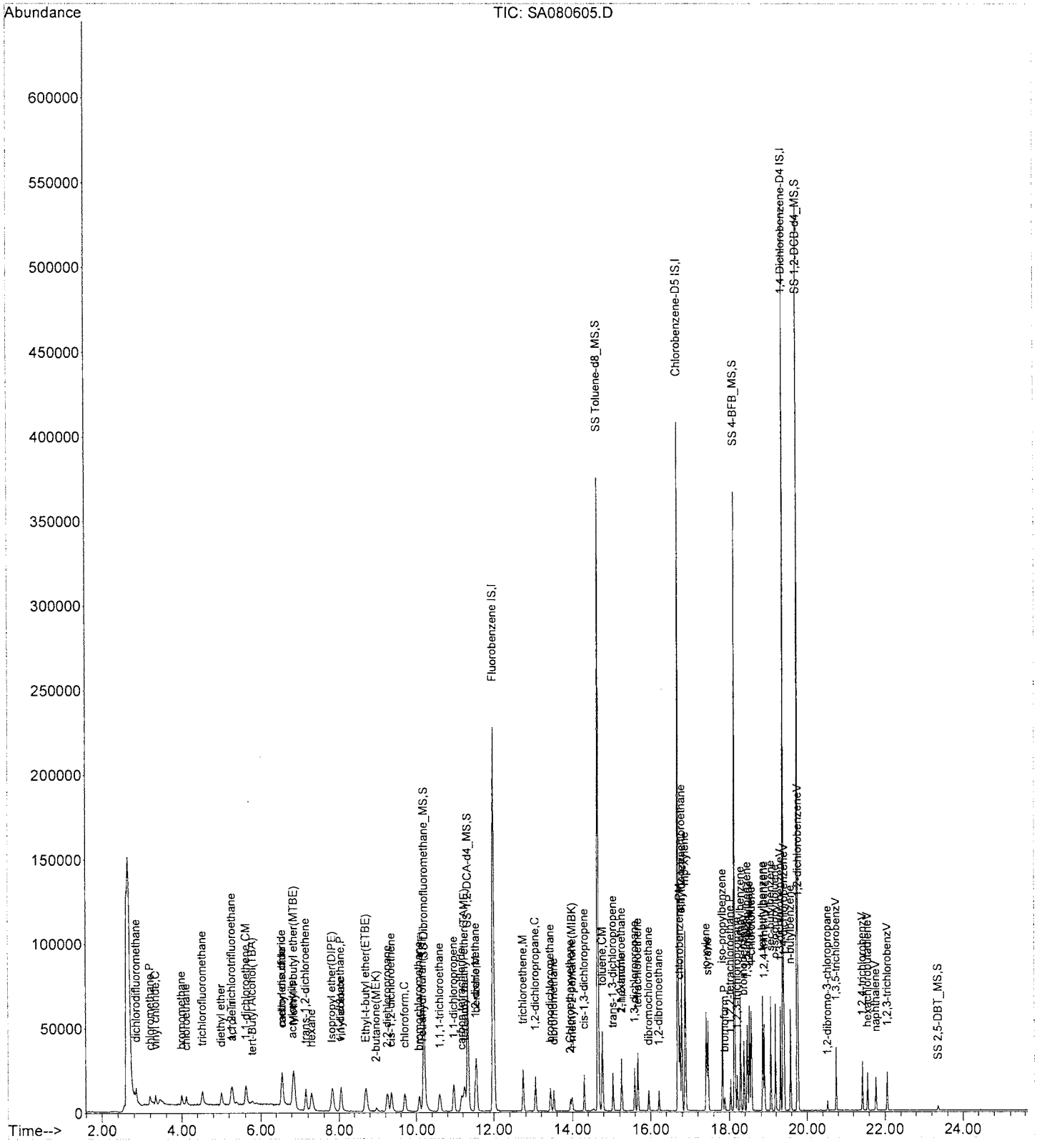
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	12624	1.104	ug/L		99
39)	trichloroethene	12.73	95	10323	1.114	ug/L		95
40)	1,2-dichloropropane	13.05	63	9136	1.068	ug/L	#	91
42)	dibromomethane	13.53	93	5408	1.092	ug/L	#	98
43)	bromodichloromethane	13.44	83	10369	1.020	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	3280	0.686	ug/L		94
45)	4-methyl-2-pentanone(MIBK)	13.99	58	2434	0.883	ug/L		78
46)	cis-1,3-dichloropropene	14.30	75	12152	0.954	ug/L	#	88
49)	toluene	14.77	91	41249	1.113	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	11039	0.945	ug/L	#	86
51)	1,1,2-trichloroethane	15.25	83	6461	1.110	ug/L		98
52)	2-hexanone	15.25	43	4837	1.058	ug/L		91
53)	tetrachloroethene	15.67	166	10478	1.104	ug/L	#	97
54)	1,3-dichloropropane	15.59	76	13576	1.071	ug/L		89
55)	dibromochloromethane	15.95	129	6441	2.288	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	7725	1.041	ug/L	#	99
57)	chlorobenzene	16.74	112	28294	1.118	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	7840	1.039	ug/L	#	73
59)	ethylbenzene	16.79	91	45367	1.061	ug/L		99
60)	mp-xylene	16.89	106	35991	2.109	ug/L		97
61)	o-xylene	17.41	106	17284	1.047	ug/L		98
62)	styrene	17.46	104	27043	0.946	ug/L		99
63)	bromoform	17.88	173	3359	2.855	ug/L	#	93
64)	iso-propylbenzene	17.83	105	41159	1.025	ug/L		98
67)	bromobenzene	18.38	156	11354	1.107	ug/L		97
68)	1,1,2,2-tetrachloroethane	18.03	83	8170	0.972	ug/L	#	1
69)	1,2,3-trichloropropane	18.21	110	3070	1.114	ug/L		93
71)	n-propylbenzene	18.28	91	50832	1.025	ug/L		99
72)	2-chlorotoluene	18.51	91	32423	1.053	ug/L		97
73)	4-chlorotoluene	18.56	91	32127	1.033	ug/L		97
74)	1,3,5-trimethylbenzene	18.45	105	28415	0.806	ug/L		98
75)	tert-butylbenzene	18.84	119	32051	1.039	ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	27025	0.744	ug/L		96
77)	sec-butylbenzene	19.06	105	43785	1.003	ug/L		97
78)	1,3-dichlorobenzeneV	19.32	146	21465	1.113	ug/L		98
79)	p-isopropyltoluene	19.19	119	34821	0.930	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	21028m	1.084	ug/L		
81)	1,2-dichlorobenzeneV	19.78	146	20120	1.110	ug/L	#	45
82)	n-butylbenzene	19.58	91	28034	0.869	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	1240	0.762	ug/L		96
85)	1,3,5-trichlorobenzV	20.75	180	11318	0.977	ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	9038	0.911	ug/L		97
87)	hexachlorobutadieneV	21.56	225	4376	0.974	ug/L		96
88)	naphthaleneV	21.76	128	16286	0.643	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	7901	0.911	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:11 2012 Quant Results File: 5VID0515.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	311125	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233148	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124069	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70681	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.35%			
35) SS 1,2-DCA-d4_MS	11.33	65	86459	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.94%			
48) SS Toluene-d8_MS	14.65	98	299524	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.96%			
65) SS 4-BFB_MS	18.13	95	116701	9.74	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	117640	10.26	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.61%			
90) SS 2,5-DBT_MS	23.36	250	1906	3.59	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 8.97%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	21865	2.151	ug/L	96
3) chloromethane	3.19	50	20517	2.321	ug/L	98
4) vinyl chloride	3.34	62	11275	1.645	ug/L	100
5) bromomethane	3.99	94	11888	2.310	ug/L	96
6) chloroethane	4.11	64	11981	2.561	ug/L	96
7) trichlorofluoromethane	4.52	101	27154	2.402	ug/L	98
8) diethyl ether	5.01	59	13374	2.500	ug/L	93
9) 1,1,2-Trichlorotrifluoroet	5.27	101	19045	2.540	ug/L	97
10) acrolein	5.26	56	2388m	2.752	ug/L	
11) acetone	5.38	43	5911	Below Cal		92
12) 1,1-dichloroethene	5.61	96	17012	2.586	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.76	59	7098	11.461	ug/L #	100
15) methylene chloride	6.55	84	19040	2.660	ug/L	95
16) carbon disulfide	6.57	76	47284	2.627	ug/L	95
17) acrylonitrile	6.81	53	6364	2.335	ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	89987	4.459	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	16725	2.152	ug/L	96
20) hexane	7.28	57	21323	1.946	ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	51994	2.139	ug/L	96
22) vinyl acetate	8.05	43	31655	3.340	ug/L	100
23) 1,1-dichloroethane	8.05	63	30031	2.127	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	47648	1.978	ug/L #	96
25) 2,2-dichloropropane	9.24	77	24594	2.063	ug/L #	91
26) cis-1,2-dichloroethene	9.36	61	23071	2.062	ug/L	98
27) 2-butanone(MEK)	8.96	43	7291	2.219	ug/L	95
28) bromochloromethane	10.08	128	8772	2.139	ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	4673	2.381	ug/L	92
30) chloroform	9.70	83	29613	2.101	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	25340	2.067	ug/L	98
33) carbon tetrachloride	11.17	117	20325	2.018	ug/L #	96
34) 1,1-dichloropropene	10.97	75	24741	2.028	ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	44633	2.062	ug/L	97
37) benzene	11.56	78	74146	2.159	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

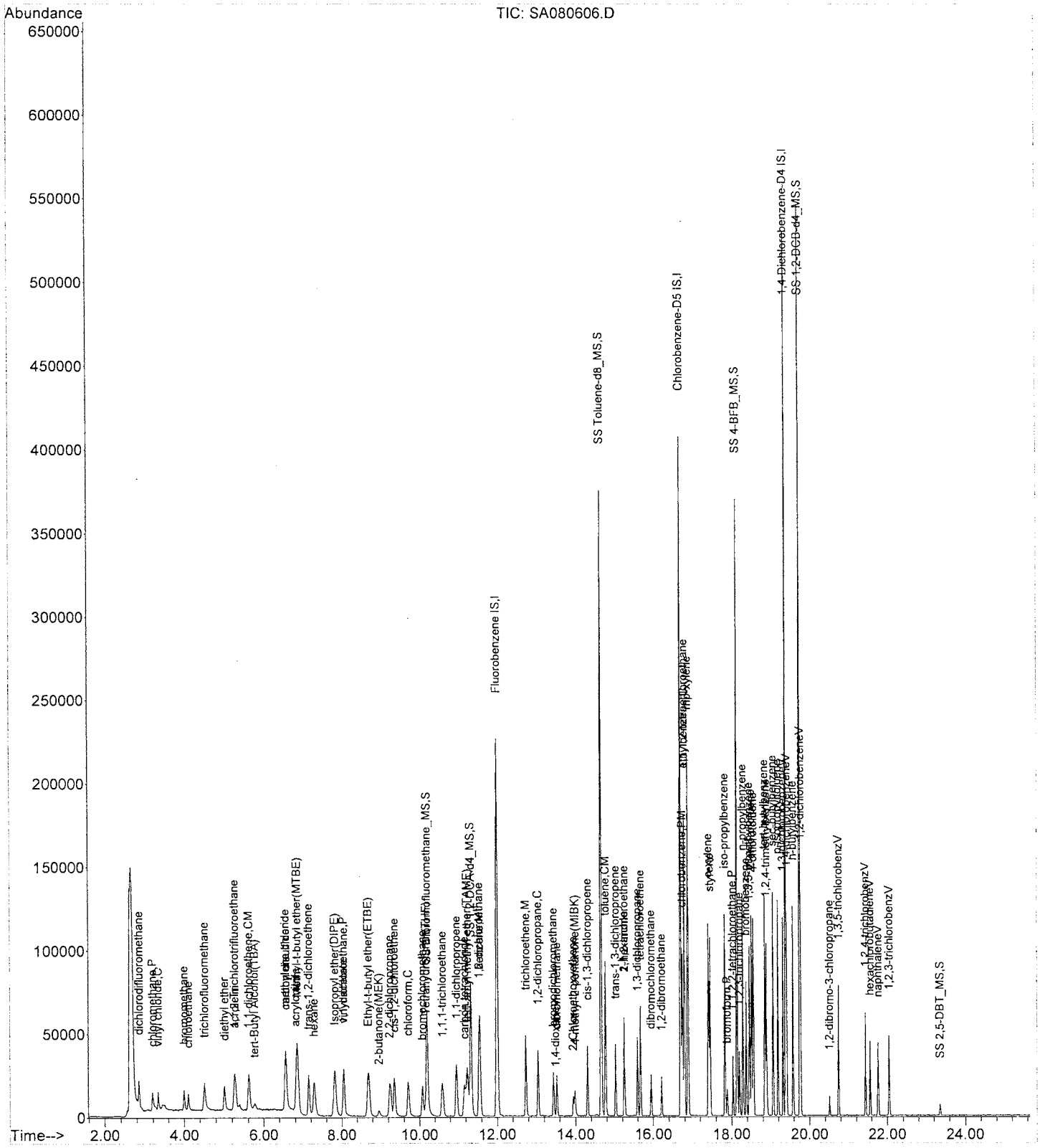
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	23978	2.133 ug/L		100
39)	trichloroethene	12.73	95	19845	2.179 ug/L		95
40)	1,2-dichloropropane	13.05	63	17299	2.058 ug/L	#	93
41)	1,4-dioxaneV	13.49	88	172	2.012 ug/L	#	49
42)	dibromomethane	13.53	93	10439	2.144 ug/L	#	98
43)	bromodichloromethane	13.44	83	19536	1.954 ug/L		97
44)	2-Chloroethoxyethene	13.95	63	5577	1.187 ug/L	#	52
45)	4-methyl-2-pentanone(MIBK)	13.99	58	4759	1.756 ug/L	#	51
46)	cis-1,3-dichloropropene	14.30	75	23468	1.874 ug/L	#	90
49)	toluene	14.77	91	77950	2.125 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	21698	1.878 ug/L	#	92
51)	1,1,2-trichloroethane	15.25	83	12011	2.086 ug/L		96
52)	2-hexanone	15.25	43	9095	2.010 ug/L		93
53)	tetrachloroethene	15.67	166	20088	2.140 ug/L		96
54)	1,3-dichloropropane	15.59	76	25839	2.061 ug/L		90
55)	dibromochloromethane	15.95	129	12989	3.076 ug/L	#	98
56)	1,2-dibromoethane	16.22	107	14738	2.008 ug/L	#	99
57)	chlorobenzene	16.74	112	54350	2.171 ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	16022	2.146 ug/L		98
59)	ethylbenzene	16.79	91	88316	2.088 ug/L		98
60)	mp-xylene	16.88	106	70544	4.178 ug/L		96
61)	o-xylene	17.41	106	34099	2.088 ug/L		97
62)	styrene	17.46	104	53896	1.907 ug/L		99
63)	bromoform	17.88	173	6642	3.500 ug/L	#	94
64)	iso-propylbenzene	17.82	105	80881	2.036 ug/L		98
67)	bromobenzene	18.38	156	22423	2.190 ug/L		96
68)	1,1,2,2-tetrachloroethane	18.04	83	15817	1.885 ug/L	#	1
69)	1,2,3-trichloropropane	18.20	110	5503	2.000 ug/L		99
71)	n-propylbenzene	18.28	91	100427	2.029 ug/L		97
72)	2-chlorotoluene	18.51	91	63734	2.074 ug/L		98
73)	4-chlorotoluene	18.56	91	62393	2.009 ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	56406	1.603 ug/L		97
75)	tert-butylbenzene	18.84	119	63320	2.056 ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	54935	1.515 ug/L		98
77)	sec-butylbenzene	19.06	105	87436	2.007 ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	41188	2.140 ug/L		99
79)	p-isopropyltoluene	19.19	119	70986	1.899 ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	41223	2.128 ug/L		94
81)	1,2-dichlorobenzeneV	19.77	146	39028	2.156 ug/L	#	88
82)	n-butylbenzene	19.58	91	58226	1.808 ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	2421	1.491 ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	22668	1.961 ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	18354	1.853 ug/L		97
87)	hexachlorobutadieneV	21.56	225	8658	1.931 ug/L		97
88)	naphthaleneV	21.76	128	36346	1.437 ug/L		100
89)	1,2,3-trichlorobenzV	22.05	180	15984	1.846 ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:12 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	323591	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	239508	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128971	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	72128	9.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.44%			
35) SS 1,2-DCA-d4_MS	11.33	65	88847	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.72%			
48) SS Toluene-d8_MS	14.65	98	309915	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.68%			
65) SS 4-BFB_MS	18.13	95	119539	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.09%			
83) SS 1,2-DCB-d4_MS	19.75	152	122063	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.42%			
90) SS 2,5-DBT_MS	23.36	250	7466	5.60	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 13.99%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	53171	5.030	ug/L	99
3) chloromethane	3.19	50	50935	5.541	ug/L	98
4) vinyl chloride	3.34	62	25654	3.600	ug/L	99
5) bromomethane	3.99	94	29457	5.503	ug/L	98
6) chloroethane	4.11	64	29011	5.962	ug/L	96
7) trichlorofluoromethane	4.52	101	68502	5.827	ug/L	100
8) diethyl ether	5.02	59	32583	5.855	ug/L	94
9) 1,1,2-Trichlorotrifluoroet	5.27	101	48383	6.205	ug/L	98
10) acrolein	5.27	56	2796m	3.098	ug/L	
11) acetone	5.38	43	14589	2.255	ug/L	94
12) 1,1-dichloroethene	5.61	96	43165	6.309	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.76	59	17125	26.587	ug/L #	100
15) methylene chloride	6.55	84	47335	6.357	ug/L	96
16) carbon disulfide	6.57	76	116173	6.205	ug/L	100
17) acrylonitrile	6.81	53	15473	5.459	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	229512	10.934	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	41764	5.168	ug/L	97
20) hexane	7.29	57	56522	4.960	ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	132364	5.236	ug/L	97
22) vinyl acetate	8.05	43	72430	7.347	ug/L	100
23) 1,1-dichloroethane	8.04	63	76560	5.214	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	121521	4.850	ug/L	97
25) 2,2-dichloropropane	9.25	77	64044	5.166	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	56120	4.824	ug/L	95
27) 2-butanone(MEK)	8.97	43	18024	5.274	ug/L	97
28) bromochloromethane	10.07	128	22570	5.291	ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	10052	4.924	ug/L	96
30) chloroform	9.70	83	75079	5.122	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	64394	5.051	ug/L	99
33) carbon tetrachloride	11.17	117	54504	5.204	ug/L #	98
34) 1,1-dichloropropene	10.97	75	64118	5.053	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	114648	5.094	ug/L	98
37) benzene	11.56	78	187750	5.256	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

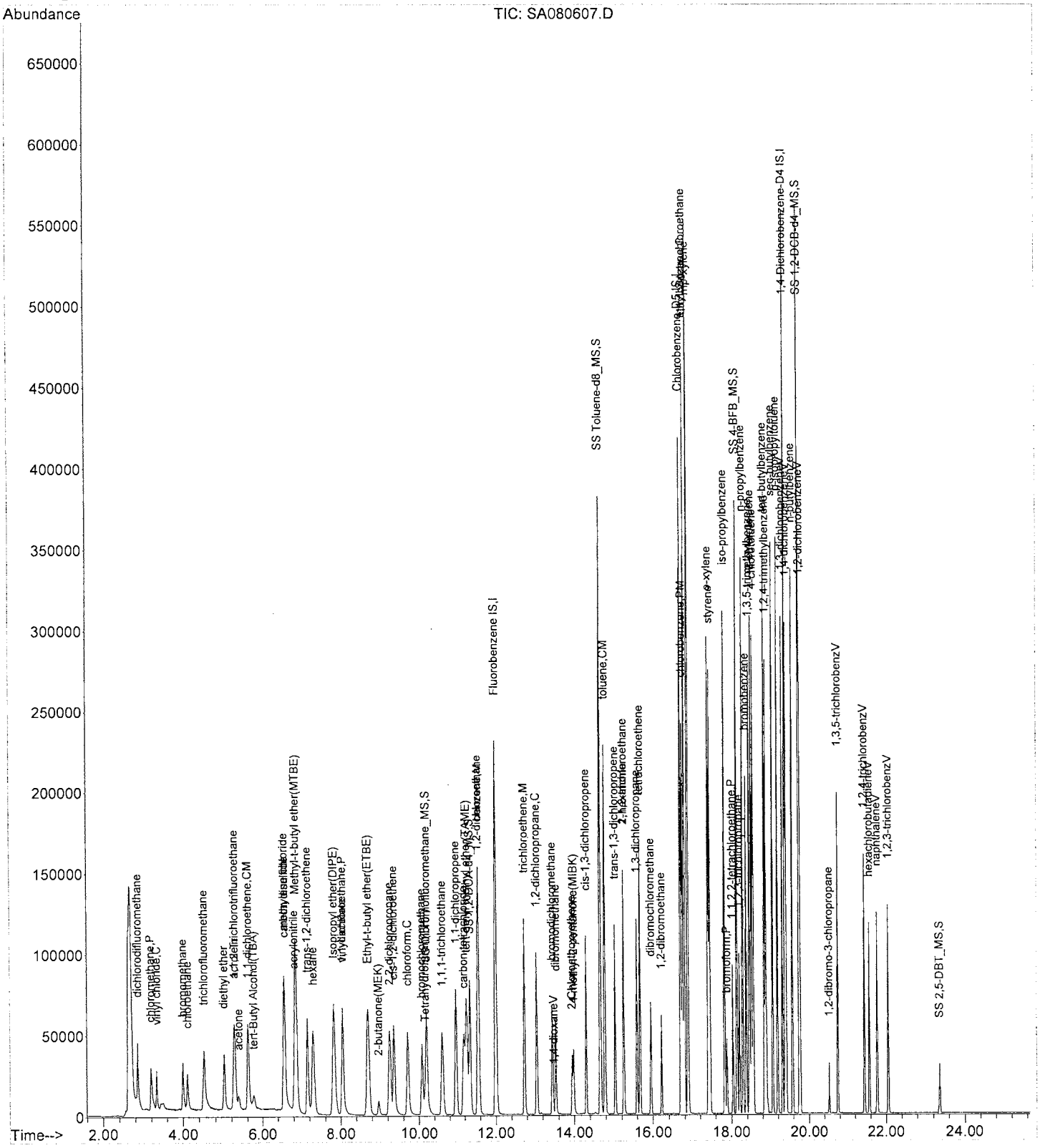
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	59487	5.088 ug/L		99
39)	trichloroethene	12.73	95	50627	5.346 ug/L		95
40)	1,2-dichloropropane	13.05	63	44207	5.057 ug/L		94
41)	1,4-dioxaneV	13.48	88	873	9.820 ug/L	#	80
42)	dibromomethane	13.53	93	26366	5.206 ug/L	#	99
43)	bromodichloromethane	13.44	83	50982	4.904 ug/L		98
44)	2-Chloroethoxyethene	13.95	63	17014	3.481 ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	12579	4.462 ug/L		87
46)	cis-1,3-dichloropropene	14.30	75	62796	4.820 ug/L	#	92
49)	toluene	14.77	91	197616	5.245 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	58883	4.960 ug/L	#	92
51)	1,1,2-trichloroethane	15.25	83	31374	5.303 ug/L		97
52)	2-hexanone	15.25	43	23507	5.057 ug/L		95
53)	tetrachloroethene	15.67	166	51556	5.345 ug/L		97
54)	1,3-dichloropropane	15.59	76	66386	5.154 ug/L		93
55)	dibromochloromethane	15.95	129	35732	5.670 ug/L	#	99
56)	1,2-dibromoethane	16.22	107	39148	5.193 ug/L	#	99
57)	chlorobenzene	16.74	112	138257	5.376 ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	43412	5.660 ug/L		99
59)	ethylbenzene	16.79	91	226843	5.221 ug/L		99
60)	mp-xylene	16.89	106	184680	10.648 ug/L		95
61)	o-xylene	17.41	106	88114	5.252 ug/L		97
62)	styrene	17.46	104	141440	4.871 ug/L		99
63)	bromoform	17.88	173	18891	5.783 ug/L	#	94
64)	iso-propylbenzene	17.82	105	208983	5.121 ug/L		98
67)	bromobenzene	18.38	156	57275	5.382 ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	40719	4.667 ug/L		98
69)	1,2,3-trichloropropane	18.20	110	14428	5.045 ug/L		96
71)	n-propylbenzene	18.28	91	262085	5.094 ug/L		97
72)	2-chlorotoluene	18.51	91	162000	5.072 ug/L		96
73)	4-chlorotoluene	18.56	91	159991	4.956 ug/L		97
74)	1,3,5-trimethylbenzene	18.45	105	156635	4.283 ug/L		97
75)	tert-butylbenzene	18.84	119	164524	5.138 ug/L		98
76)	1,2,4-trimethylbenzene	18.89	105	153626	4.076 ug/L		98
77)	sec-butylbenzene	19.06	105	227299	5.019 ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	106408	5.319 ug/L		98
79)	p-isopropyltoluene	19.18	119	190634	4.906 ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	106758	5.302 ug/L		96
81)	1,2-dichlorobenzeneV	19.78	146	99154	5.270 ug/L	#	90
82)	n-butylbenzene	19.58	91	158164	4.726 ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	6773	4.013 ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	59213	4.927 ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	48968	4.757 ug/L		98
87)	hexachlorobutadieneV	21.56	225	22516	4.831 ug/L		97
88)	naphthaleneV	21.76	128	104106	3.961 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	42519	4.724 ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:13 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	324389	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	242009	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	129685	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	73780	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
35) SS 1,2-DCA-d4_MS	11.32	65	90318	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.13%			
48) SS Toluene-d8_MS	14.65	98	309846	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	120850	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.14%			
83) SS 1,2-DCB-d4_MS	19.75	152	122688	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.38%			
90) SS 2,5-DBT_MS	23.36	250	17585	9.26	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 23.16%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	104764	9.886	ug/L	100
3) chloromethane	3.19	50	97535	10.584	ug/L	100
4) vinyl chloride	3.34	62	50688	7.095	ug/L	100
5) bromomethane	3.99	94	60497	11.274	ug/L	98
6) chloroethane	4.11	64	58601	12.013	ug/L	98
7) trichlorofluoromethane	4.52	101	136522	11.584	ug/L	99
8) diethyl ether	5.02	59	63875	11.450	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	94286	12.062	ug/L	98
10) acrolein	5.27	56	3902	4.313	ug/L #	74
11) acetone	5.38	43	17944	4.342	ug/L	92
12) 1,1-dichloroethene	5.61	96	84084	12.259	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.77	59	32325	50.061	ug/L #	100
15) methylene chloride	6.55	84	91427	12.249	ug/L	96
16) carbon disulfide	6.57	76	222989	11.881	ug/L	98
17) acrylonitrile	6.81	53	29022	10.215	ug/L	98
18) Methyl-t-butyl ether(MTBE)	6.85	73	442551	21.031	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	81697	10.084	ug/L	96
20) hexane	7.29	57	106898	9.358	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	250738	9.893	ug/L	97
22) vinyl acetate	8.05	43	145728	14.747	ug/L	99
23) 1,1-dichloroethane	8.05	63	146249	9.936	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	230985	9.196	ug/L	97
25) 2,2-dichloropropane	9.25	77	124240	9.997	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	110682	9.490	ug/L	97
27) 2-butanone(MEK)	8.96	43	29336	8.563	ug/L	98
28) bromochloromethane	10.08	128	43996	10.289	ug/L	97
29) Tetrahydrofuran(THF)	10.15	42	18637	9.107	ug/L	99
30) chloroform	9.71	83	144451	9.831	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	126782	9.920	ug/L	99
33) carbon tetrachloride	11.17	117	109899	10.467	ug/L #	98
34) 1,1-dichloropropene	10.97	75	122422	9.624	ug/L	93
36) tert-amyl methyl ether(TAM	11.24	73	219873	9.745	ug/L	98
37) benzene	11.56	78	356984	9.969	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

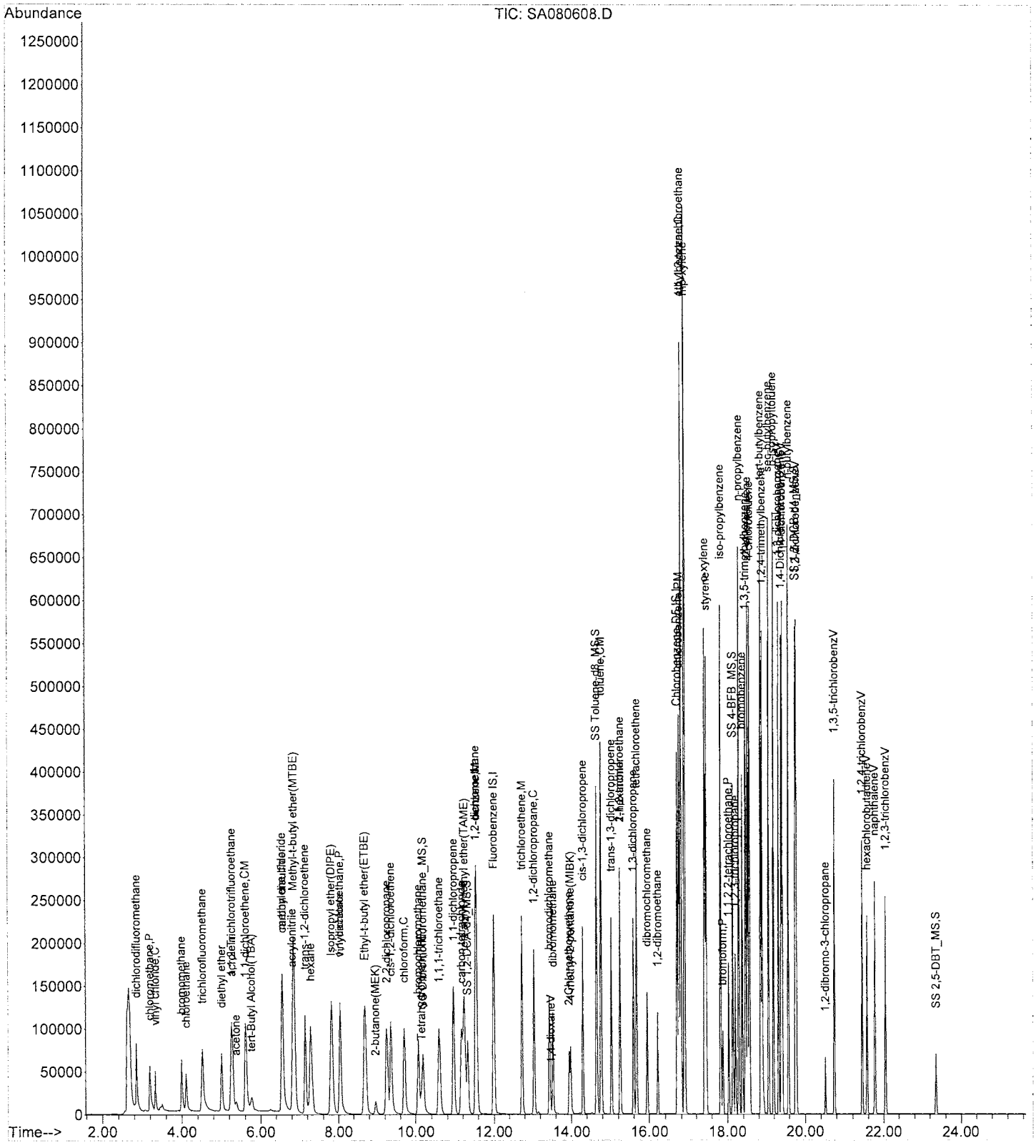
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	115520	9.856 ug/L		99
39)	trichloroethene	12.73	95	95604	10.070 ug/L		94
40)	1,2-dichloropropane	13.05	63	85183	9.720 ug/L		96
41)	1,4-dioxaneV	13.48	88	1778	19.951 ug/L	#	86
42)	dibromomethane	13.53	93	51822	10.207 ug/L	#	98
43)	bromodichloromethane	13.44	83	103517	9.933 ug/L		98
44)	2-Chloroethoxyethene	13.95	63	33701	6.878 ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	23714	8.391 ug/L		90
46)	cis-1,3-dichloropropene	14.30	75	124921	9.565 ug/L		92
49)	toluene	14.77	91	377743	9.923 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	117495	9.795 ug/L		93
51)	1,1,2-trichloroethane	15.25	83	59682	9.984 ug/L		98
52)	2-hexanone	15.25	43	41073	8.745 ug/L		96
53)	tetrachloroethene	15.67	166	99630	10.223 ug/L		97
54)	1,3-dichloropropane	15.59	76	126404	9.712 ug/L		94
55)	dibromochloromethane	15.95	129	74194	10.037 ug/L	#	99
56)	1,2-dibromoethane	16.22	107	75271	9.882 ug/L	#	99
57)	chlorobenzene	16.74	112	264609	10.182 ug/L		99
58)	1,1,1,2-tetrachloroethane	16.78	131	87634	11.307 ug/L		98
59)	ethylbenzene	16.79	91	440040	10.023 ug/L		98
60)	mp-xylene	16.89	106	358565	20.460 ug/L		95
61)	o-xylene	17.41	106	171754	10.131 ug/L		95
62)	styrene	17.46	104	276307	9.416 ug/L		99
63)	bromoform	17.88	173	40931	9.874 ug/L	#	95
64)	iso-propylbenzene	17.83	105	408527	9.907 ug/L		98
67)	bromobenzene	18.38	156	110889	10.362 ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	80231	9.145 ug/L		98
69)	1,2,3-trichloropropane	18.20	110	27289	9.489 ug/L		97
71)	n-propylbenzene	18.28	91	510400	9.866 ug/L		97
72)	2-chlorotoluene	18.51	91	311972	9.713 ug/L		96
73)	4-chlorotoluene	18.56	91	312660	9.632 ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	314307	8.547 ug/L		98
75)	tert-butylbenzene	18.84	119	325327	10.104 ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	307042	8.102 ug/L		98
77)	sec-butylbenzene	19.06	105	449935	9.881 ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	209179	10.399 ug/L		98
79)	p-isopropyltoluene	19.19	119	385722	9.872 ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	209097	10.328 ug/L		96
81)	1,2-dichlorobenzeneV	19.77	146	192455	10.172 ug/L		96
82)	n-butylbenzene	19.58	91	317274	9.427 ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	14627	8.618 ug/L		99
85)	1,3,5-trichlorobenzV	20.75	180	116460	9.637 ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	97075	9.378 ug/L		98
87)	hexachlorobutadieneV	21.56	225	44655	9.529 ug/L		97
88)	naphthaleneV	21.76	128	225296	8.524 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	84046	9.287 ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:14 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	322868	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	241334	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	133534	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73903	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.12%			
35) SS 1,2-DCA-d4_MS	11.32	65	88686	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.76%			
48) SS Toluene-d8_MS	14.65	98	313143	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.96%			
65) SS 4-BFB_MS	18.13	95	121929	9.83	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.28%			
83) SS 1,2-DCB-d4_MS	19.75	152	125727	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%			
90) SS 2,5-DBT_MS	23.36	250	44003	18.41	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 46.03%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	204235	19.363	ug/L	100
3) chloromethane	3.19	50	188088	20.507	ug/L	99
4) vinyl chloride	3.34	62	92845	13.057	ug/L	99
5) bromomethane	3.99	94	120563	22.573	ug/L	100
6) chloroethane	4.11	64	113330	23.342	ug/L	98
7) trichlorofluoromethane	4.52	101	264170	22.521	ug/L	99
8) diethyl ether	5.01	59	126776	22.832	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	184609	23.729	ug/L	97
10) acrolein	5.28	56	5136	5.704	ug/L	83
11) acetone	5.38	43	35268	15.335	ug/L	93
12) 1,1-dichloroethene	5.61	96	166261	24.353	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.77	59	65054	101.223	ug/L #	100
15) methylene chloride	6.55	84	179290	24.133	ug/L	96
16) carbon disulfide	6.57	76	446244	23.888	ug/L	99
17) acrylonitrile	6.81	53	57626	20.377	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	892529	42.614	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	161790	20.063	ug/L	97
20) hexane	7.29	57	207116	18.216	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	499965	19.820	ug/L	97
22) vinyl acetate	8.05	43	264329	26.874	ug/L	99
23) 1,1-dichloroethane	8.04	63	289368	19.752	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	460612	18.424	ug/L	97
25) 2,2-dichloropropane	9.25	77	245535	19.851	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	221170	19.052	ug/L	96
27) 2-butanone(MEK)	8.96	43	57507	16.866	ug/L	99
28) bromochloromethane	10.08	128	88910	20.891	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	37906	18.609	ug/L	98
30) chloroform	9.71	83	289180	19.774	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	253516	19.929	ug/L	99
33) carbon tetrachloride	11.17	117	227189	21.741	ug/L #	98
34) 1,1-dichloropropene	10.96	75	242922	19.187	ug/L	94
36) tert-amyl methyl ether(TAM	11.24	73	441059	19.640	ug/L	97
37) benzene	11.56	78	705667	19.800	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

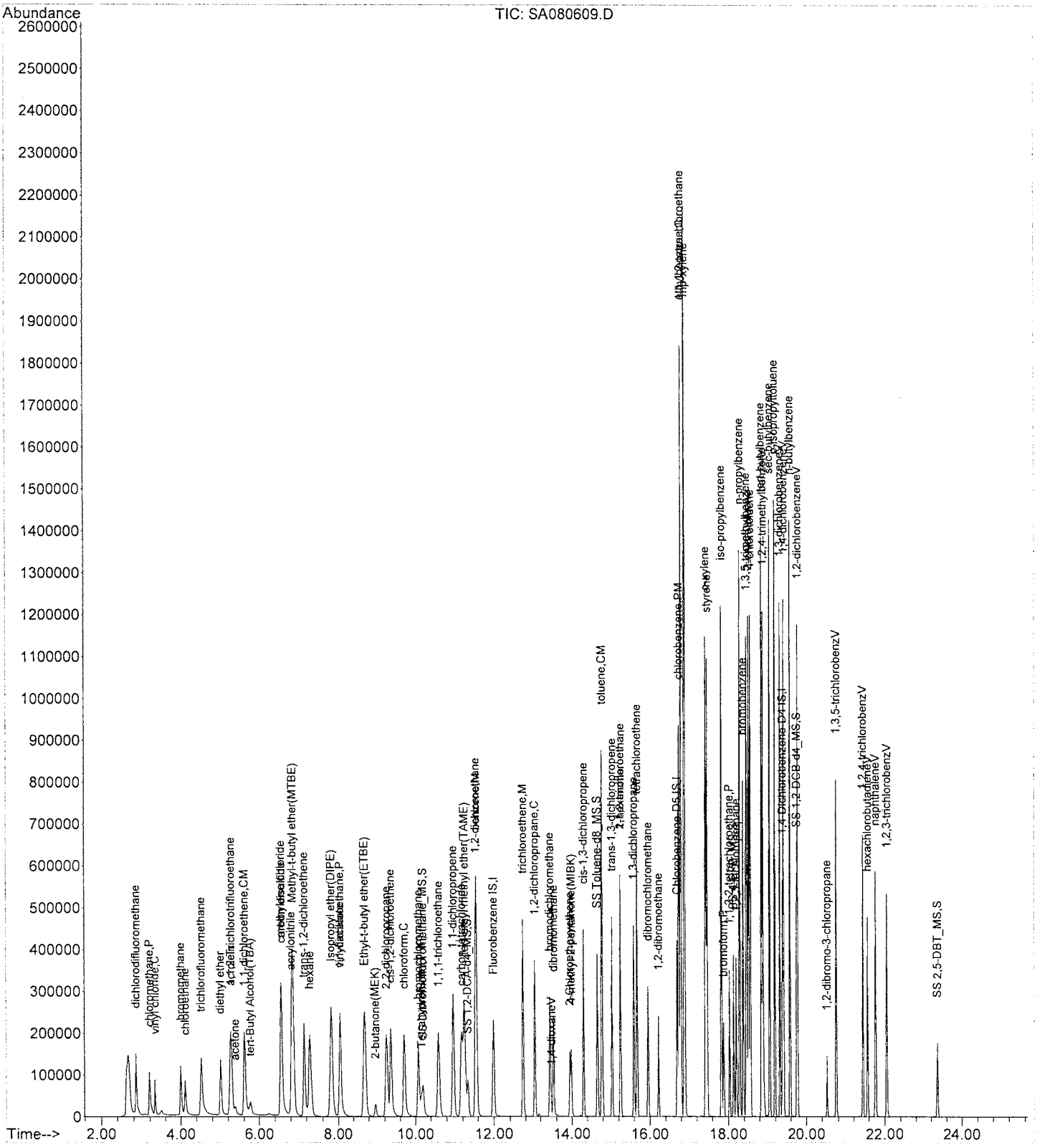
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	229347	19.660	ug/L		100
39)	trichloroethene	12.73	95	193280	20.455	ug/L		95
40)	1,2-dichloropropane	13.05	63	169672	19.452	ug/L		96
41)	1,4-dioxaneV	13.48	88	3217	36.268	ug/L	#	88
42)	dibromomethane	13.53	93	103838	20.549	ug/L	#	98
43)	bromodichloromethane	13.44	83	214102	20.641	ug/L		99
44)	2-Chloroethoxyethene	13.95	63	71719	14.706	ug/L		94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	48492	17.239	ug/L		94
46)	cis-1,3-dichloropropene	14.30	75	257798	19.833	ug/L		94
49)	toluene	14.77	91	757600	19.957	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	244542	20.443	ug/L		94
51)	1,1,2-trichloroethane	15.25	83	119684	20.078	ug/L		97
52)	2-hexanone	15.25	43	81786	17.462	ug/L		98
53)	tetrachloroethene	15.67	166	200566	20.638	ug/L		98
54)	1,3-dichloropropane	15.59	76	254930	19.642	ug/L		95
55)	dibromochloromethane	15.95	129	160422	19.976	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	153194	20.168	ug/L	#	98
57)	chlorobenzene	16.74	112	533100	20.571	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	184207	23.835	ug/L		98
59)	ethylbenzene	16.79	91	895701	20.459	ug/L		98
60)	mp-xylene	16.89	106	734159	42.008	ug/L		95
61)	o-xylene	17.41	106	346921	20.520	ug/L		96
62)	styrene	17.46	104	569142	19.450	ug/L		98
63)	bromoform	17.88	173	94076	19.875	ug/L	#	95
64)	iso-propylbenzene	17.82	105	831978	20.233	ug/L		98
67)	bromobenzene	18.38	156	227167	20.616	ug/L		95
68)	1,1,2,2-tetrachloroethane	18.03	83	159294	17.634	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	56191	18.976	ug/L		95
71)	n-propylbenzene	18.28	91	1037490	19.476	ug/L		97
72)	2-chlorotoluene	18.51	91	639453	19.335	ug/L		96
73)	4-chlorotoluene	18.56	91	640894	19.176	ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	680691	17.976	ug/L		98
75)	tert-butylbenzene	18.84	119	661684	19.959	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	668388	17.129	ug/L		98
77)	sec-butylbenzene	19.06	105	927281	19.777	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	431025	20.810	ug/L		98
79)	p-isopropyltoluene	19.19	119	802110	19.938	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	428272	20.544	ug/L		97
81)	1,2-dichlorobenzeneV	19.78	146	397345	20.397	ug/L		98
82)	n-butylbenzene	19.58	91	656964	18.958	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	32453	18.569	ug/L		98
85)	1,3,5-trichlorobenzV	20.75	180	244917	19.682	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	208669	19.578	ug/L		98
87)	hexachlorobutadieneV	21.56	225	92291	19.126	ug/L		96
88)	naphthaleneV	21.76	128	494463	18.169	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	180192	19.337	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:15 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331102	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	250410	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	138371	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	76859	10.36	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.56%			
35) SS 1,2-DCA-d4_MS	11.33	65	90270	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.01%			
48) SS Toluene-d8_MS	14.65	98	318782	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%			
65) SS 4-BFB_MS	18.13	95	125982	9.79	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.87%			
83) SS 1,2-DCB-d4_MS	19.75	152	132181	10.34	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.38%			
90) SS 2,5-DBT_MS	23.36	250	146023	52.65	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 131.62%#			
Target Compounds						Qvalue
8) diethyl ether	5.01	59	324027	56.905	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	473031	59.290	ug/L	98
11) acetone	5.38	43	89768	48.345	ug/L	94
12) 1,1-dichloroethene	5.61	96	423876	60.544	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.78	59	164913	250.220	ug/L #	100
15) methylene chloride	6.55	84	454435	59.648	ug/L	96
16) carbon disulfide	6.57	76	1159534	60.528	ug/L	99
17) acrylonitrile	6.81	53	146222	50.421	ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	2293661	106.789	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	424858	51.376	ug/L	96
20) hexane	7.29	57	534314	45.824	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	1297148	50.144	ug/L	98
23) 1,1-dichloroethane	8.04	63	744164	49.533	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	1203991	46.961	ug/L	97
25) 2,2-dichloropropane	9.25	77	636475	50.178	ug/L	98
26) cis-1,2-dichloroethene	9.36	61	574724	48.277	ug/L	97
27) 2-butanone(MEK)	8.96	43	146064	41.772	ug/L	99
28) bromochloromethane	10.08	128	231317	52.999	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	95804	45.864	ug/L	100
30) chloroform	9.71	83	749236	49.957	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	674477	51.702	ug/L	99
33) carbon tetrachloride	11.17	117	616213	57.502	ug/L	98
34) 1,1-dichloropropene	10.97	75	631116	48.608	ug/L	95
36) tert-amyl methyl ether(TAM	11.24	73	1170905	50.843	ug/L	97
37) benzene	11.56	78	1848728	50.582	ug/L	98
38) 1,2-dichloroethane	11.53	62	587726	49.128	ug/L	100
39) trichloroethene	12.73	95	501409	51.744	ug/L	93
40) 1,2-dichloropropane	13.05	63	443101	49.535	ug/L	97
42) dibromomethane	13.53	93	272163	52.519	ug/L #	98
43) bromodichloromethane	13.44	83	580083	54.533	ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.98	58	127298	44.130	ug/L	91
46) cis-1,3-dichloropropene	14.30	75	691448	51.871	ug/L	95
49) toluene	14.77	91	1995475	50.661	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

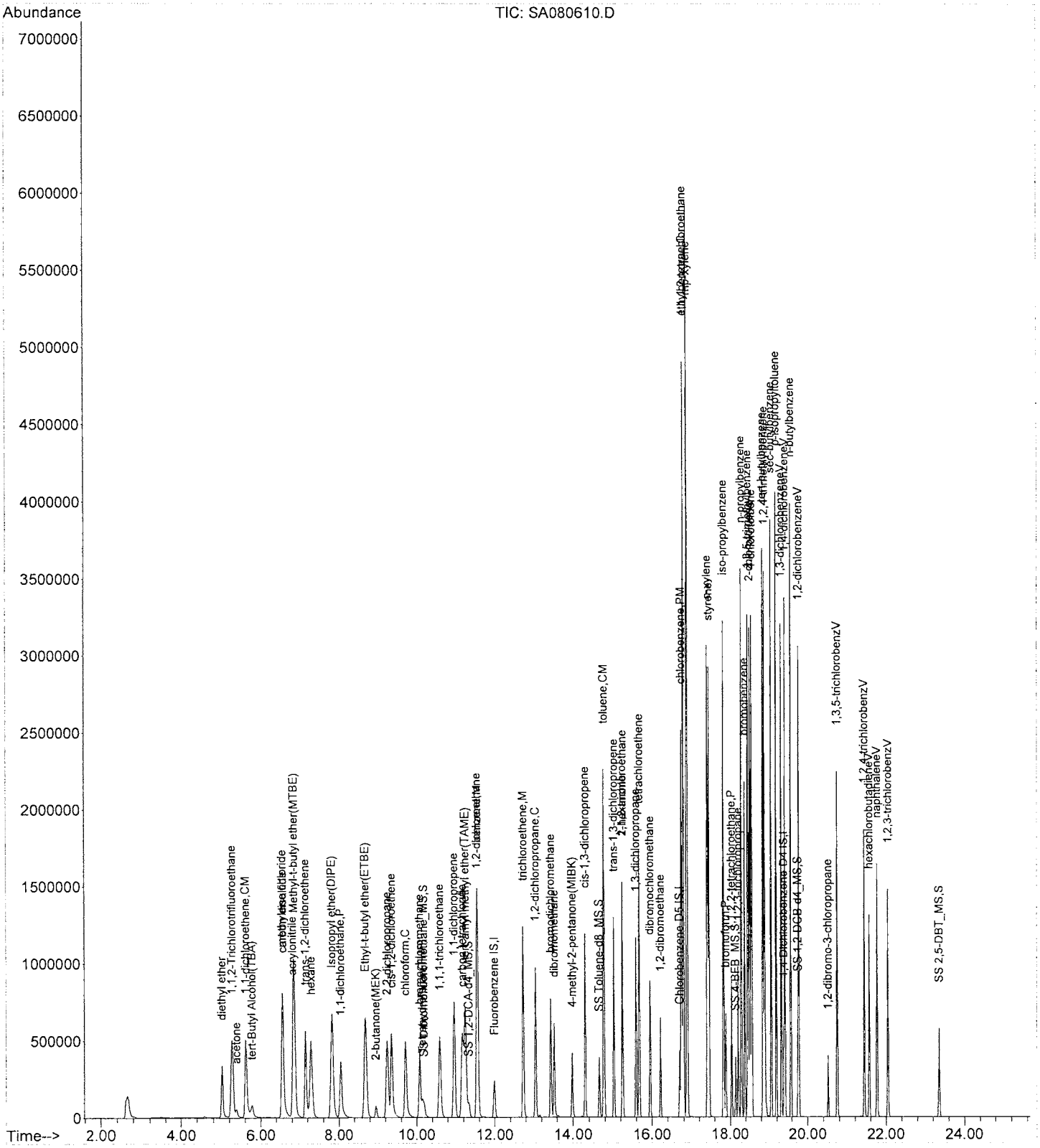
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	674089	54.308 ug/L		96
51)	1,1,2-trichloroethane	15.25	83	314320	50.818 ug/L		97
52)	2-hexanone	15.25	43	217045	44.661 ug/L		99
53)	tetrachloroethene	15.67	166	532594	52.817 ug/L		99
54)	1,3-dichloropropane	15.60	76	670112	49.759 ug/L		97
55)	dibromochloromethane	15.95	129	463298	52.872 ug/L	#	99
56)	1,2-dibromoethane	16.22	107	408417	51.821 ug/L	#	98
57)	chlorobenzene	16.74	112	1424693	52.982 ug/L		97
58)	1,1,1,2-tetrachloroethane	16.79	131	518188	64.619 ug/L		99
59)	ethylbenzene	16.79	91	2401851	52.873 ug/L		97
60)	mp-xylene	16.89	106	1987578	109.606 ug/L		93
61)	o-xylene	17.41	106	932780	53.174 ug/L		95
62)	styrene	17.46	104	1542129	50.792 ug/L		97
63)	bromoform	17.88	173	282056	53.254 ug/L		96
64)	iso-propylbenzene	17.83	105	2243422	52.581 ug/L		98
67)	bromobenzene	18.38	156	615871	53.937 ug/L		93
68)	1,1,2,2-tetrachloroethane	18.03	83	428345	45.762 ug/L		98
69)	1,2,3-trichloropropane	18.20	110	147834	48.180 ug/L		95
71)	n-propylbenzene	18.28	91	2764917	50.090 ug/L		96
72)	2-chlorotoluene	18.51	91	1701528	49.651 ug/L		95
73)	4-chlorotoluene	18.56	91	1721385	49.704 ug/L		95
74)	1,3,5-trimethylbenzene	18.46	105	1938811	49.411 ug/L		97
75)	tert-butylbenzene	18.84	119	1801252	52.433 ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	1946861	48.148 ug/L		98
77)	sec-butylbenzene	19.06	105	2518151	51.829 ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	1174081	54.704 ug/L		97
79)	p-isopropyltoluene	19.19	119	2202559	52.835 ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	1167232	54.035 ug/L		94
81)	1,2-dichlorobenzeneV	19.77	146	1083413	53.670 ug/L		94
82)	n-butylbenzene	19.58	91	1805340	50.276 ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	94583	52.227 ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	680226	52.754 ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	576646	52.211 ug/L		99
87)	hexachlorobutadieneV	21.56	225	254217	50.842 ug/L		97
88)	naphthaleneV	21.76	128	1389617	49.275 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	498022	51.575 ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:17:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

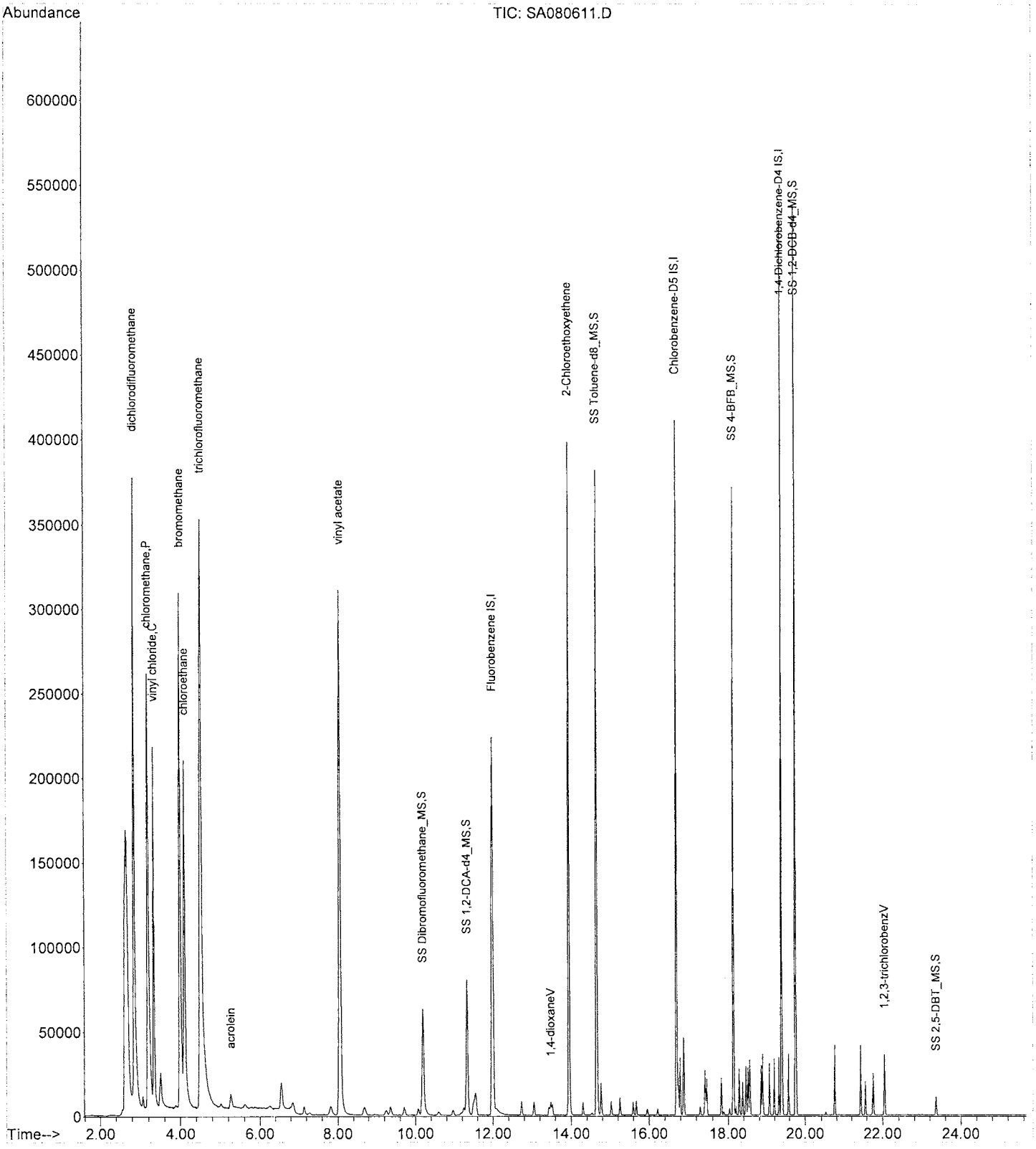
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	313742	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233790	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124513	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	71405	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.54%			
35) SS 1,2-DCA-d4_MS	11.33	65	86445	10.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.07%			
48) SS Toluene-d8_MS	14.65	98	304108	10.12	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.21%			
65) SS 4-BFB_MS	18.13	95	116323	9.68	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.79%			
83) SS 1,2-DCB-d4_MS	19.75	152	116932	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	2847	3.94	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 9.86%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	504172	49.189	ug/L	100
3) chloromethane	3.19	50	468249	52.537	ug/L	99
4) vinyl chloride	3.33	62	229297	33.185	ug/L	100
5) bromomethane	3.99	94	315852	60.858	ug/L	98
6) chloroethane	4.11	64	282219	59.819	ug/L	98
7) trichlorofluoromethane	4.52	101	661686	58.052	ug/L	99
10) acrolein	5.27	56	14489	16.558	ug/L	88
22) vinyl acetate	8.05	43	764933	80.032	ug/L	100
41) 1,4-dioxaneV	13.48	88	7694m	89.265	ug/L	
44) 2-Chloroethoxyethene	13.95	63	188360	39.746	ug/L	96
89) 1,2,3-trichlorobenzV	22.05	180	12069	1.389	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331654	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	253138	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142723	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	76563	10.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.99%			
35) SS 1,2-DCA-d4_MS	11.33	65	88376	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.75%			
48) SS Toluene-d8_MS	14.66	98	323672	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%			
65) SS 4-BFB_MS	18.13	95	128735	9.89	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.93%			
83) SS 1,2-DCB-d4_MS	19.75	152	133827	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
90) SS 2,5-DBT_MS	23.36	250	307494	104.50	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 261.26%#			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	653626	114.598	ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.27	101	954722	119.466	ug/L	97
11) acetone	5.38	43	192085	111.158	ug/L	96
12) 1,1-dichloroethene	5.61	96	861104	122.790	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.83	59	340440	515.686	ug/L #	100
15) methylene chloride	6.55	84	916932	120.154	ug/L	95
16) carbon disulfide	6.57	76	2408564	125.518	ug/L	99
17) acrylonitrile	6.82	53	294486	101.376	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	4599642	213.795	ug/L	96
19) trans-1,2-dichloroethene	7.15	96	877469	105.931	ug/L	95
20) hexane	7.29	57	1116565	95.600	ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	2642544	101.984	ug/L	98
23) 1,1-dichloroethane	8.04	63	1519610	100.979	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	2473473	96.315	ug/L	97
25) 2,2-dichloropropane	9.25	77	1346660	105.990	ug/L	100
26) cis-1,2-dichloroethene	9.36	61	1165887	97.773	ug/L	96
27) 2-butanone(MEK)	8.96	43	305075	87.102	ug/L	99
28) bromochloromethane	10.08	128	477487	109.220	ug/L	94
29) Tetrahydrofuran(THF)	10.15	42	197413	94.349	ug/L	100
30) chloroform	9.71	83	1540866	102.570	ug/L	99
32) 1,1,1-trichloroethane	10.59	97	1387099	106.151	ug/L	99
33) carbon tetrachloride	11.17	117	1291747	120.338	ug/L	99
34) 1,1-dichloropropene	10.97	75	1294359	99.524	ug/L	96
36) tert-amyl methyl ether(TAM	11.24	73	2428997	105.296	ug/L	97
37) benzene	11.56	78	3844569	105.013	ug/L	97
38) 1,2-dichloroethane	11.53	62	1175844	98.125	ug/L	99
39) trichloroethene	12.73	95	1052972	108.483	ug/L	93
40) 1,2-dichloropropane	13.05	63	911141	101.688	ug/L	98
42) dibromomethane	13.53	93	563981	108.651	ug/L	97
43) bromodichloromethane	13.44	83	1220579	114.555	ug/L	99
45) 4-methyl-2-pentanone(MIBK)	13.99	58	267008	92.408	ug/L	93
46) cis-1,3-dichloropropene	14.30	75	1467654	109.917	ug/L	97
49) toluene	14.77	91	4208033	105.681	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

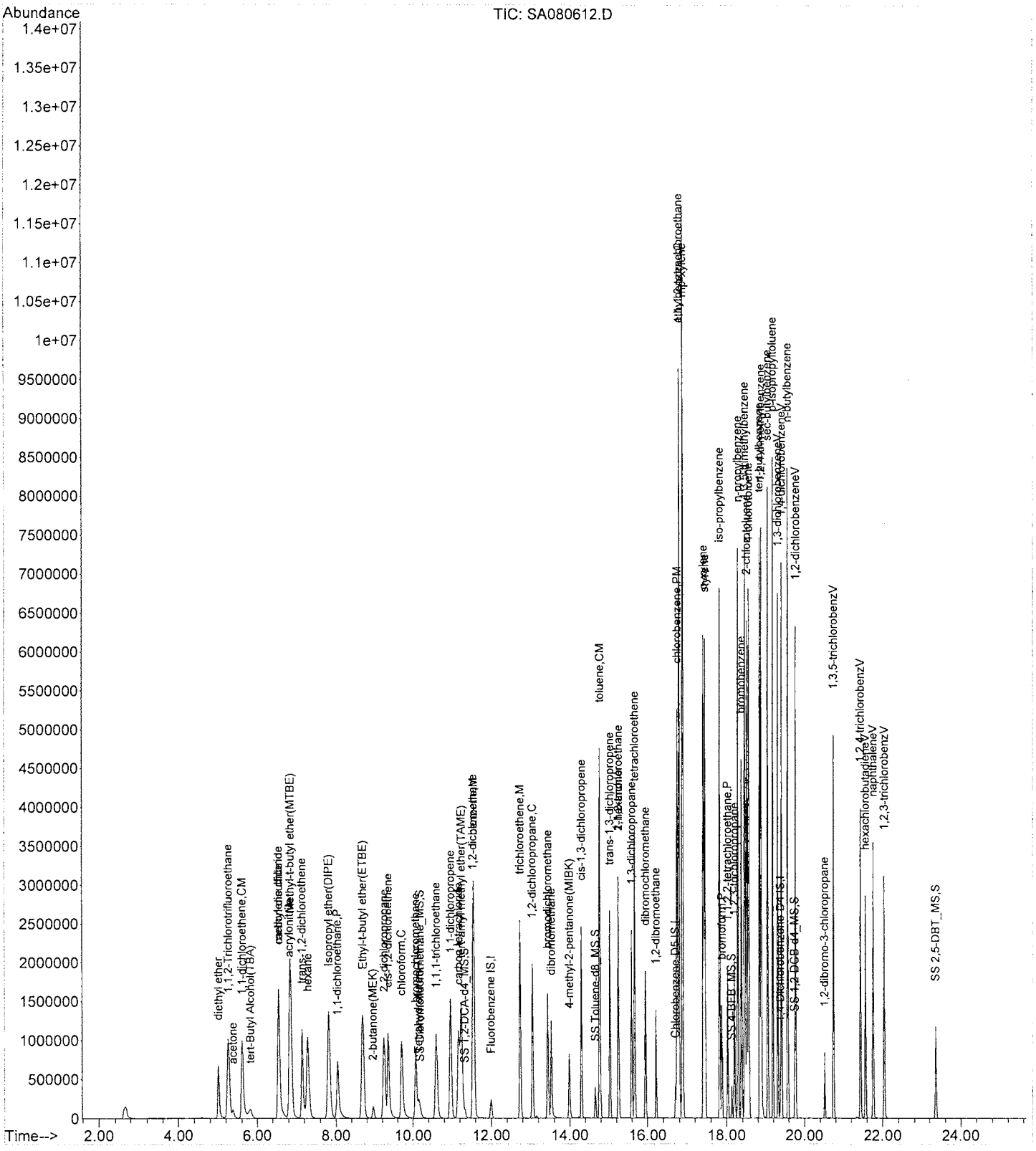
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	1445331	115.189	ug/L		97
51)	1,1,2-trichloroethane	15.25	83	669054	107.004	ug/L		97
52)	2-hexanone	15.25	43	442409	90.052	ug/L		99
53)	tetrachloroethene	15.67	166	1140843	111.917	ug/L		99
54)	1,3-dichloropropane	15.60	76	1394543	102.436	ug/L		100
55)	dibromochloromethane	15.95	129	1023813	113.764	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	867603	108.896	ug/L	#	98
57)	chlorobenzene	16.74	112	3018005	111.025	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	1092453	134.763	ug/L		99
59)	ethylbenzene	16.79	91	4993389	108.737	ug/L		97
60)	mp-xylene	16.89	106	4054705	221.188	ug/L		92
61)	o-xylene	17.42	106	1988257	112.121	ug/L		94
62)	styrene	17.46	104	3286856	107.090	ug/L		97
63)	bromoform	17.89	173	635608	115.999	ug/L		97
64)	iso-propylbenzene	17.83	105	4706635	109.125	ug/L		97
67)	bromobenzene	18.38	156	1319756	112.059	ug/L		91
68)	1,1,2,2-tetrachloroethane	18.03	83	884728	91.637	ug/L		98
69)	1,2,3-trichloropropane	18.21	110	315513	99.692	ug/L		94
71)	n-propylbenzene	18.29	91	5778337	101.490	ug/L		95
72)	2-chlorotoluene	18.51	91	3549325	100.412	ug/L		95
73)	4-chlorotoluene	18.56	91	3633211	101.707	ug/L		94
74)	1,3,5-trimethylbenzene	18.46	105	4166312	102.942	ug/L		97
75)	tert-butylbenzene	18.84	119	3776172	106.569	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	4202148	100.755	ug/L		97
77)	sec-butylbenzene	19.06	105	5204067	103.846	ug/L		97
78)	1,3-dichlorobenzeneV	19.32	146	2521009	113.880	ug/L		95
79)	p-isopropyltoluene	19.19	119	4569773	106.278	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	2517031	112.968	ug/L	#	92
81)	1,2-dichlorobenzeneV	19.78	146	2312287	111.053	ug/L	#	93
82)	n-butylbenzene	19.58	91	3766931	101.705	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.52	157	202582	108.452	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	1467245	110.320	ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	1247600	109.516	ug/L		98
87)	hexachlorobutadieneV	21.56	225	553942	107.408	ug/L		97
88)	naphthaleneV	21.76	128	3000156	103.141	ug/L		100
89)	1,2,3-trichlorobenzV	22.05	180	1066196	107.048	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:19 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:19:25 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

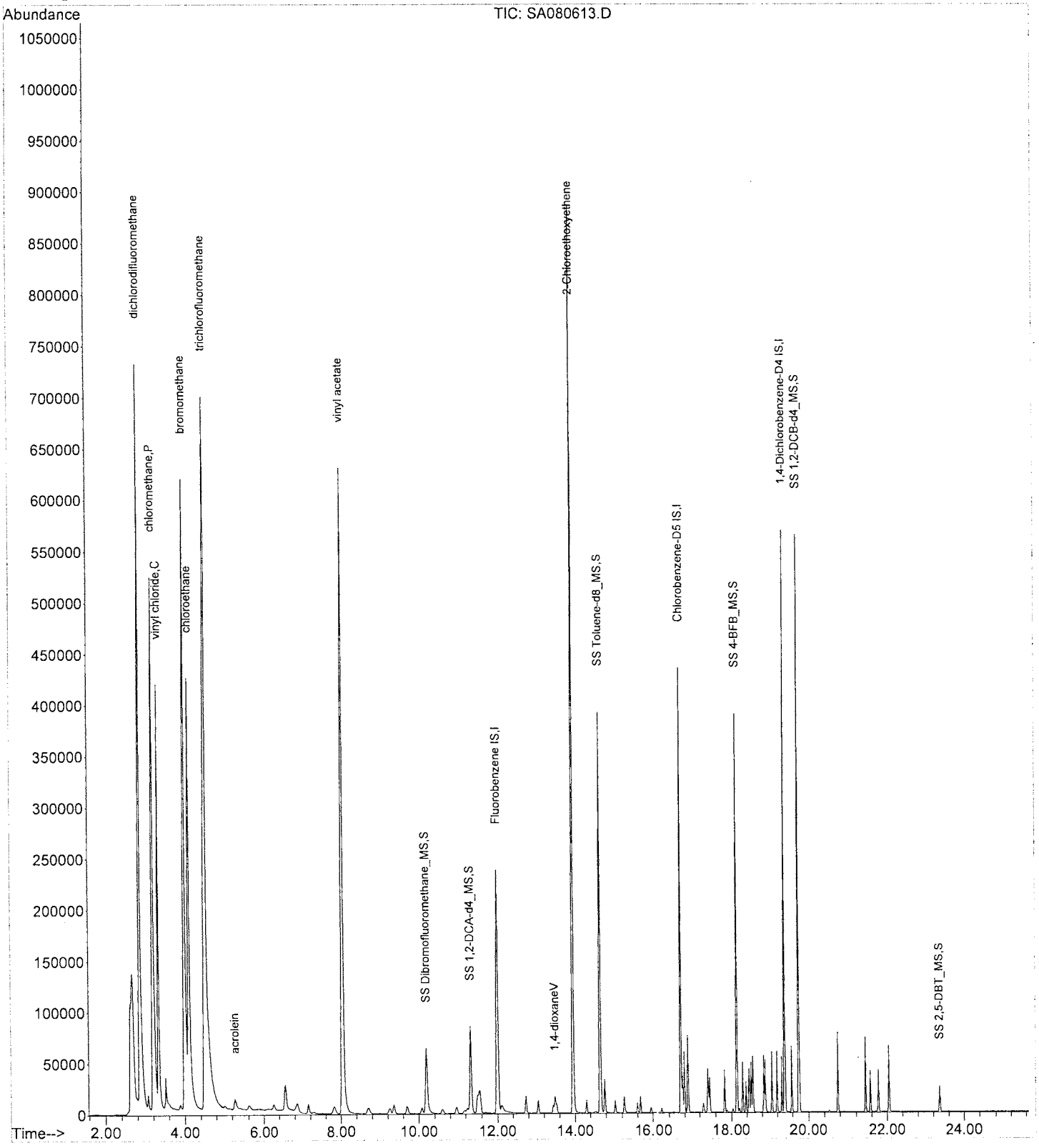
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	338403	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248910	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130705	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73710	9.72	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.18%			
35) SS 1,2-DCA-d4_MS	11.32	65	92429	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.19%			
48) SS Toluene-d8_MS	14.65	98	324602	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
65) SS 4-BFB_MS	18.13	95	122535	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.76%			
83) SS 1,2-DCB-d4_MS	19.75	152	122462	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.40%			
90) SS 2,5-DBT_MS	23.36	250	6402	5.18	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 12.94%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	1096182	99.154	ug/L	100
3) chloromethane	3.19	50	978455	101.782	ug/L	99
4) vinyl chloride	3.33	62	460879	61.839	ug/L	99
5) bromomethane	3.99	94	692398	123.689	ug/L	99
6) chloroethane	4.10	64	602931	118.483	ug/L	98
7) trichlorofluoromethane	4.52	101	1413521	114.975	ug/L	100
10) acrolein	5.27	56	18699	19.812	ug/L	88
22) vinyl acetate	8.05	43	1555483	150.885	ug/L	99
41) 1,4-dioxaneV	13.48	88	15891m	170.930	ug/L	
44) 2-Chloroethoxyethene	13.95	63	421679	82.494	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:20 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	327192	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	254244	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142553	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	76305	10.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.04%			
35) SS 1,2-DCA-d4_MS	11.33	65	87322	9.79	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.90%			
48) SS Toluene-d8_MS	14.66	98	320954	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.23%			
65) SS 4-BFB_MS	18.13	95	127058	9.72	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.22%			
83) SS 1,2-DCB-d4_MS	19.76	152	133877	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	690077	231.23	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 578.08%#			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	1309272	232.680	ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.26	101	1905415	241.680	ug/L	97
11) acetone	5.39	43	368713	222.842	ug/L	94
12) 1,1-dichloroethene	5.61	96	1723985	249.185	ug/L	90
13) tert-Butyl Alcohol(TBA)	5.89	59	681225m	1045.966	ug/L	
15) methylene chloride	6.54	84	1823761	242.243	ug/L	94
16) carbon disulfide	6.57	76	4805220	253.831	ug/L	99
17) acrylonitrile	6.82	53	583465	203.596	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	9151982	431.193	ug/L	96
19) trans-1,2-dichloroethene	7.15	96	1803073	220.641	ug/L	93
20) hexane	7.29	57	2219415	192.617	ug/L	98
21) Isopropyl ether(DIPE)	7.83	45	5293433	207.076	ug/L	98
23) 1,1-dichloroethane	8.04	63	3068923	206.714	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	5043568	199.071	ug/L	96
25) 2,2-dichloropropane	9.25	77	2709552	216.166	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	2355579	200.235	ug/L	95
27) 2-butanone(MEK)	8.97	43	614168	177.743	ug/L	98
28) bromochloromethane	10.08	128	997240	231.218	ug/L	92
29) Tetrahydrofuran(THF)	10.15	42	401919	194.708	ug/L	99
30) chloroform	9.71	83	3148637	212.453	ug/L	99
32) 1,1,1-trichloroethane	10.59	97	2884369	223.743	ug/L	98
33) carbon tetrachloride	11.17	117	2717438	256.607	ug/L	99
34) 1,1-dichloropropene	10.97	75	2649160	206.473	ug/L	97
36) tert-amyl methyl ether(TAM	11.25	73	5062883	222.467	ug/L	95
37) benzene	11.56	78	7870492	217.912	ug/L	97
38) 1,2-dichloroethane	11.54	62	2313244	195.673	ug/L	99
39) trichloroethene	12.73	95	2205648	230.336	ug/L	92
40) 1,2-dichloropropane	13.05	63	1880341	212.718	ug/L	98
42) dibromomethane	13.53	93	1161373	226.789	ug/L	97
43) bromodichloromethane	13.44	83	2567154	244.221	ug/L	99
45) 4-methyl-2-pentanone(MIBK)	14.00	58	542993	190.486	ug/L	94
46) cis-1,3-dichloropropene	14.31	75	3067826	232.892	ug/L	97
49) toluene	14.77	91	8459139	211.520	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

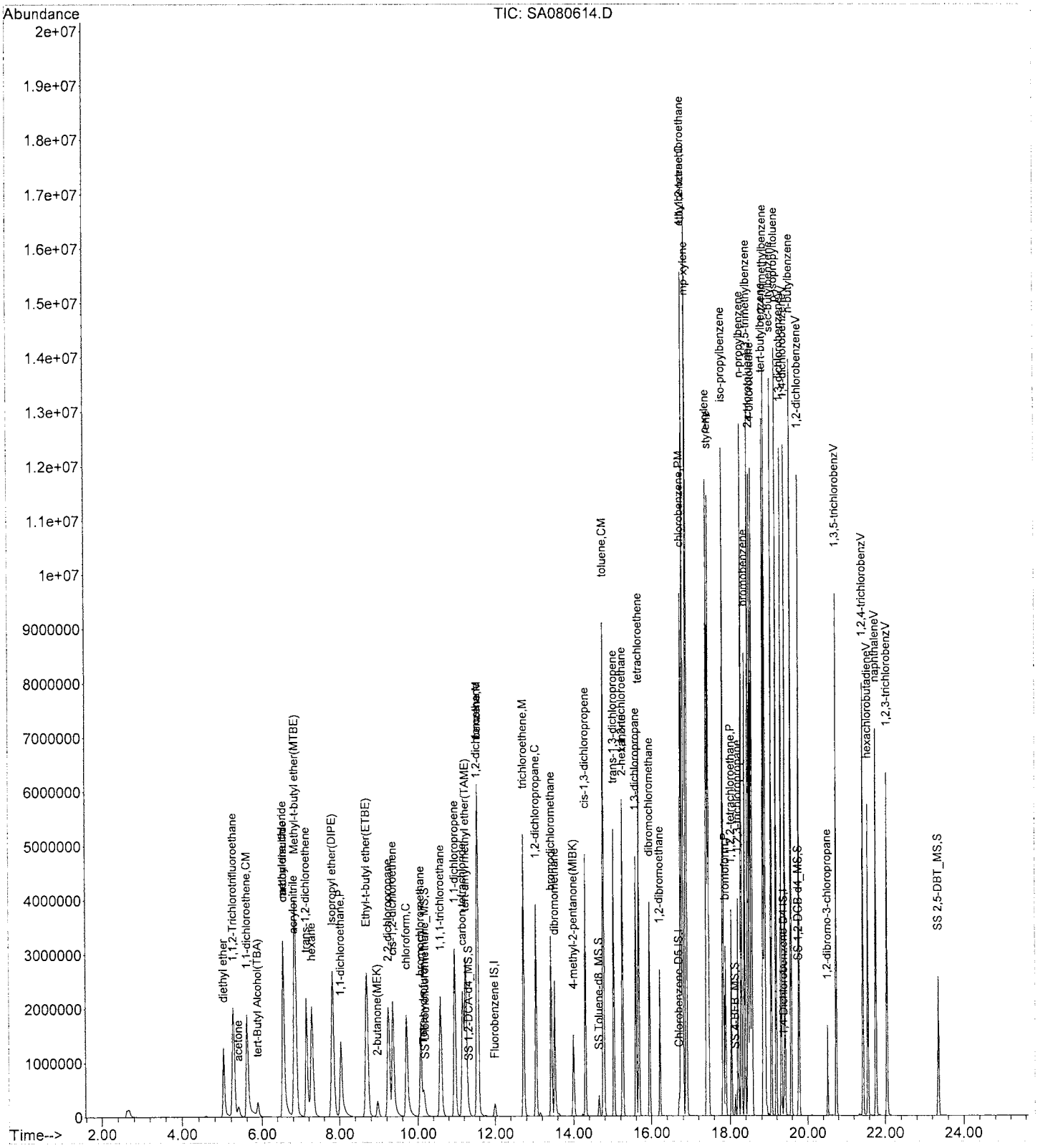
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	trans-1,3-dichloropropene	15.04	75	2961679	235.010 ug/L		96
51)	1,1,2-trichloroethane	15.25	83	1387610	220.959 ug/L		95
52)	2-hexanone	15.27	43	860543	174.401 ug/L		97
53)	tetrachloroethene	15.67	166	2335767	228.142 ug/L		97
54)	1,3-dichloropropane	15.60	76	2860234	209.184 ug/L		96
55)	dibromochloromethane	15.95	129	2166303	237.976 ug/L	#	99
56)	1,2-dibromoethane	16.22	107	1774947	221.812 ug/L	#	99
57)	chlorobenzene	16.75	112	6069844	222.323 ug/L		95
58)	1,1,1,2-tetrachloroethane	16.79	131	1994554	244.974 ug/L		99
59)	ethylbenzene	16.80	91	8860415	192.107 ug/L		95
60)	mp-xylene	16.89	106	6772390	367.834 ug/L		90
61)	o-xylene	17.42	106	3928577	220.575 ug/L		92
62)	styrene	17.46	104	6416758	208.157 ug/L		96
63)	bromoform	17.89	173	1345493	242.038 ug/L	#	97
64)	iso-propylbenzene	17.83	105	8878323	204.951 ug/L		96
67)	bromobenzene	18.38	156	2668277	226.830 ug/L	#	89
68)	1,1,2,2-tetrachloroethane	18.04	83	1754702	181.962 ug/L		99
69)	1,2,3-trichloropropane	18.21	110	637917	201.802 ug/L		91
71)	n-propylbenzene	18.29	91	10490556	184.475 ug/L		91
72)	2-chlorotoluene	18.52	91	6867562	194.518 ug/L		93
73)	4-chlorotoluene	18.56	91	6742966	188.987 ug/L		93
74)	1,3,5-trimethylbenzene	18.47	105	7908227	195.631 ug/L		97
75)	tert-butylbenzene	18.85	119	7044956	199.056 ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	7844188	188.304 ug/L		97
77)	sec-butylbenzene	19.06	105	9402855	187.855 ug/L	#	96
78)	1,3-dichlorobenzeneV	19.32	146	4815825	217.802 ug/L	#	95
79)	p-isopropyltoluene	19.19	119	8104355	188.705 ug/L		96
80)	1,4-dichlorobenzeneV	19.42	146	4783293	214.938 ug/L	#	91
81)	1,2-dichlorobenzeneV	19.78	146	4452379	214.090 ug/L	#	92
82)	n-butylbenzene	19.58	91	6890529	186.262 ug/L	#	95
84)	1,2-dibromo-3-chloropropan	20.52	157	426363	228.525 ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	2960463	222.859 ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	2597910	228.319 ug/L		97
87)	hexachlorobutadieneV	21.56	225	1153357	223.900 ug/L		97
88)	naphthaleneV	21.77	128	6237033	214.675 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	2249114	226.085 ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:21 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:21:48 2012 Quant Results File: 5VID0806.RES

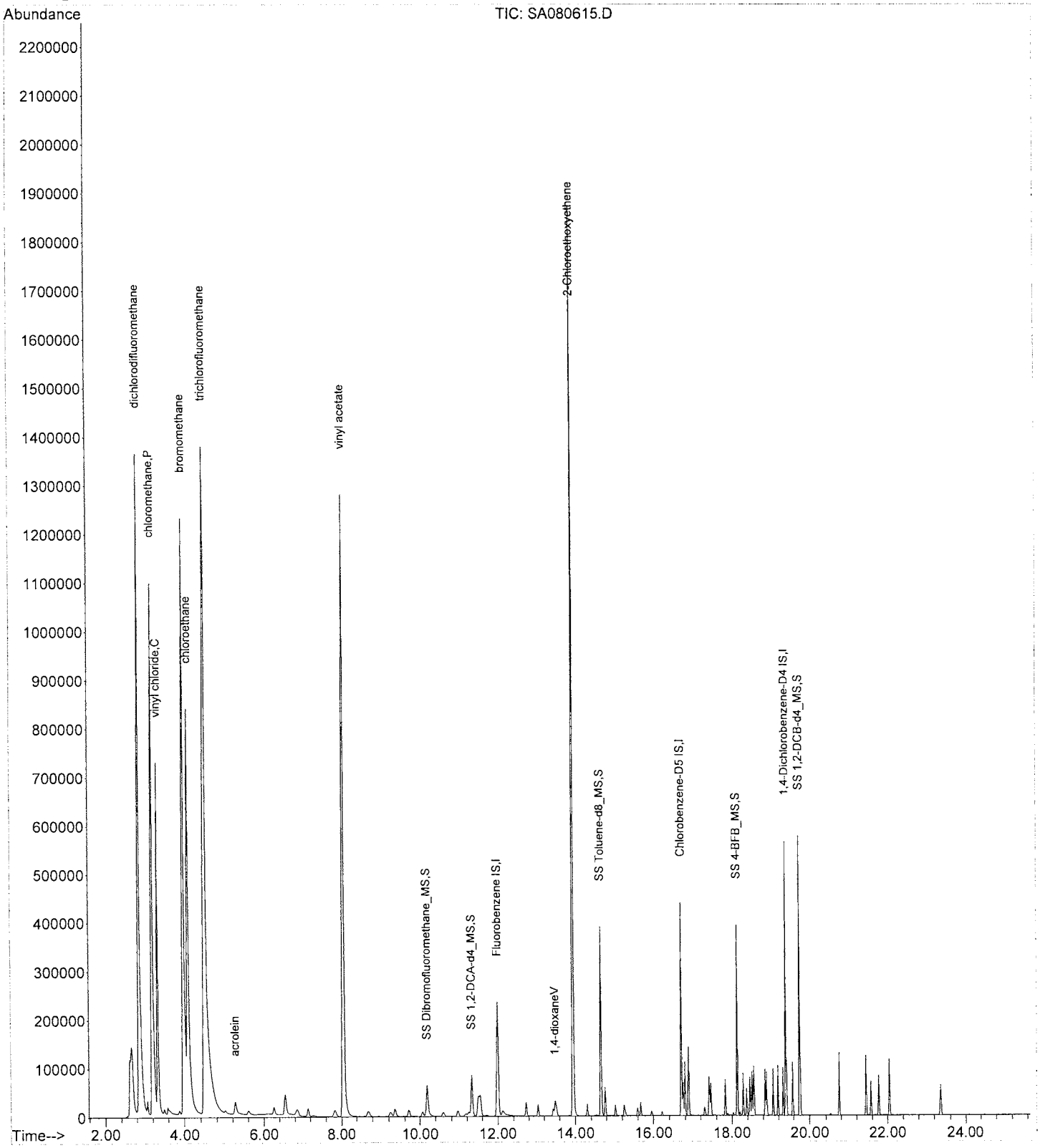
Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	336112	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251329	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130239	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73409	9.74	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.44%			
35) SS 1,2-DCA-d4_MS	11.32	65	92313	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.75%			
48) SS Toluene-d8_MS	14.65	98	321368	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%			
65) SS 4-BFB_MS	18.13	95	123550	9.56	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.63%			
83) SS 1,2-DCB-d4_MS	19.75	152	122712	10.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.97%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	2215576	201.773	ug/L	99
3) chloromethane	3.19	50	1949346	204.160	ug/L	99
4) vinyl chloride	3.32	62	847787	114.529	ug/L	100
5) bromomethane	3.98	94	1417928	255.022	ug/L	99
6) chloroethane	4.10	64	1215808	240.549	ug/L	98
7) trichlorofluoromethane	4.51	101	2821940	231.100	ug/L	99
10) acrolein	5.27	56	45900	48.964	ug/L	88
22) vinyl acetate	8.05	43	3161029	308.715	ug/L	98
41) 1,4-dioxaneV	13.49	88	32796	355.171	ug/L	90
44) 2-Chloroethoxyethene	13.95	63	929800	183.138	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:22 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:24:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

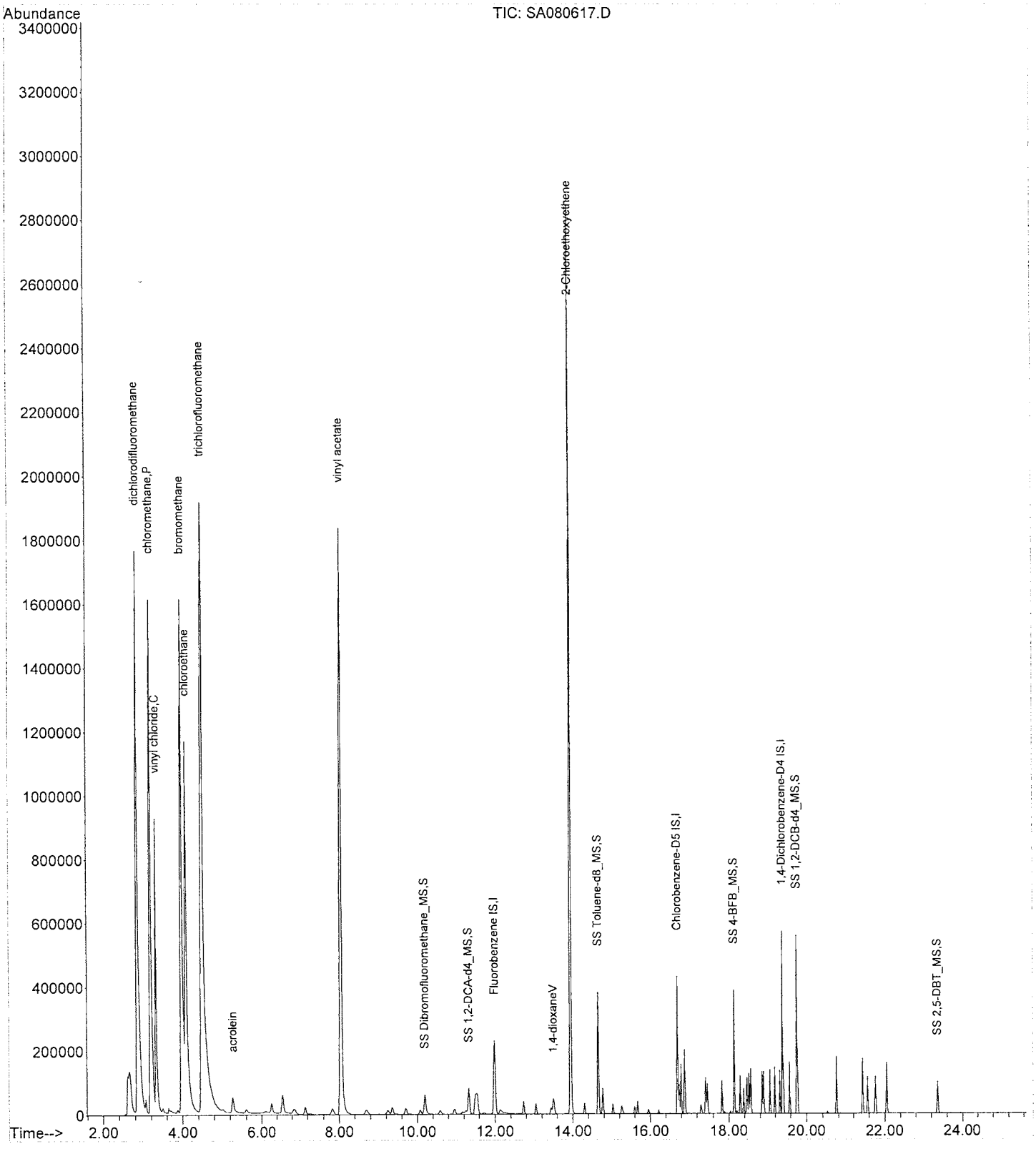
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	330386	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248192	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130620	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70329	9.50	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.97%			
35) SS 1,2-DCA-d4_MS	11.32	65	88502	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.26%			
48) SS Toluene-d8_MS	14.65	98	315982	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%			
65) SS 4-BFB_MS	18.13	95	122190	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.77%			
83) SS 1,2-DCB-d4_MS	19.75	152	121780	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			
90) SS 2,5-DBT_MS	23.36	250	25597	12.11	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 30.27%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.84	85	3293119	305.103	ug/L	99
3) chloromethane	3.19	50	2854514	304.142	ug/L	99
4) vinyl chloride	3.32	62	1117345	153.560	ug/L	100
5) bromomethane	3.98	94	2059715	376.872	ug/L	99
6) chloroethane	4.09	64	1776518	357.578	ug/L	98
7) trichlorofluoromethane	4.51	101	4062214	338.437	ug/L	99
10) acrolein	5.27	56	81169	88.088	ug/L	91
22) vinyl acetate	8.05	43	4614823	458.508	ug/L	97
41) 1,4-dioxaneV	13.50	88	50371	554.957	ug/L	91
44) 2-Chloroethoxyethene	13.95	63	1457963	292.144	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:24 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:25:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

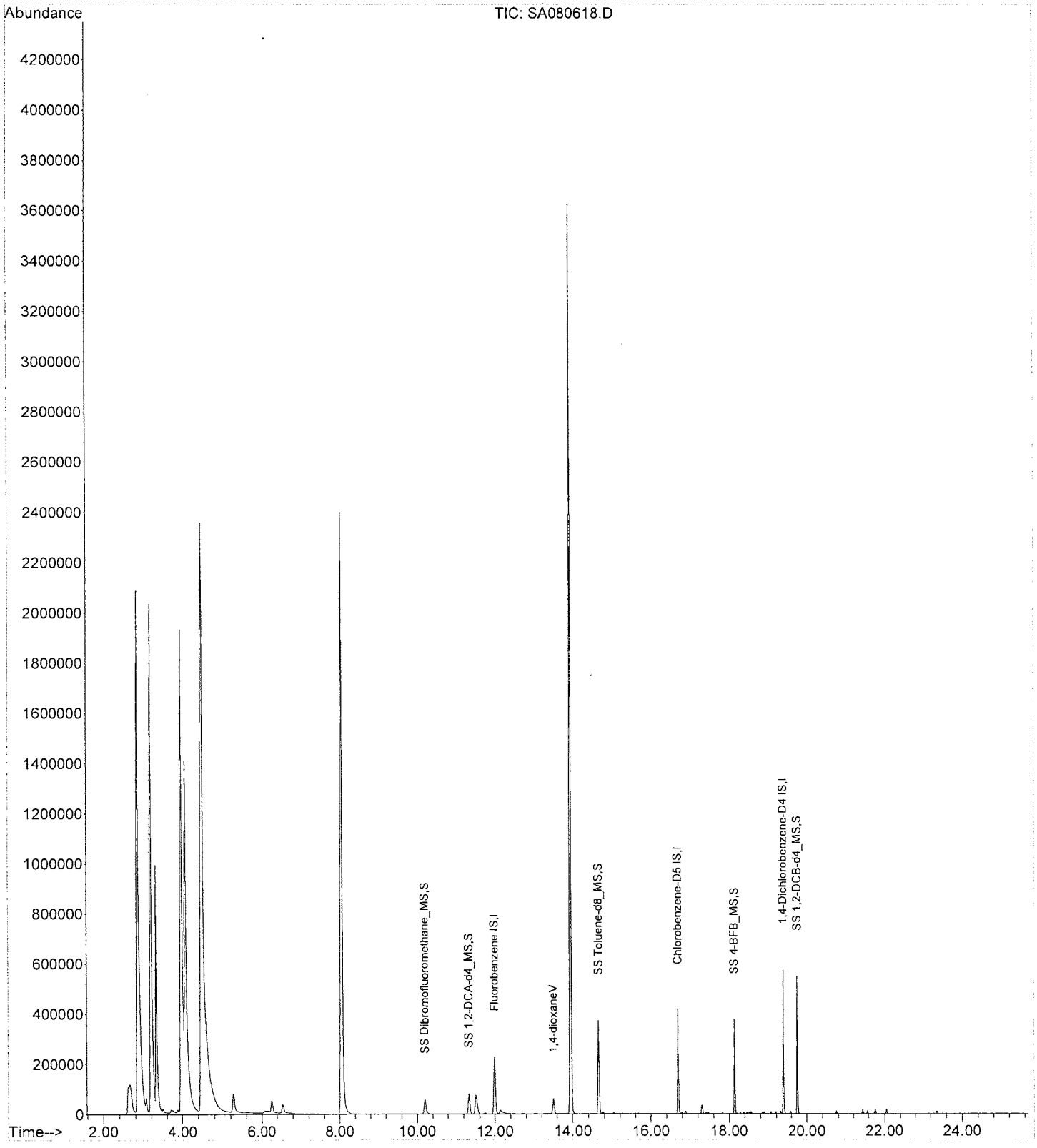
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	332477	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251955	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128566	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70172	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.16%			
35) SS 1,2-DCA-d4_MS	11.32	65	89597	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.85%			
48) SS Toluene-d8_MS	14.66	98	321541	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
65) SS 4-BFB_MS	18.13	95	122225	9.44	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	121004	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.86%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
41) 1,4-dioxaneV	13.51	88	68747	752.649	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:25 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Volatile Organics 8260B

Sample and QC Data

VOAMS3 Analysis Run Log

IS/SS ID= V- ~~3865~~ (wp) 3965
Standard ID= V- 3968 B
Analyst: wp
Gas Standard ID= V- 3971
LCS/LCSD and/or MS/MSD Standard ID= V- 3970 (G)
V-3963 (L)
Date: 8/30/2012

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	SA083001	Blank					VOCMS				
2	02	BFB					VOCMS		Autofind BFB		✓
3	03	STD 20					VOCMS	3VID0809	↓DCDFM, CM, BM ↑HCBD		✓
4	04	STD 2					VOCMS	↓			
5	05	MB					VOCMS				
6	06	113593.02		✓		x1	VOCMS		RRx1		
7	07	(wp) ~~.03~~ .12		✓		↓	VOCMS		order corrected 8/31/12 wp		
8	08	(wp) ~~.04~~ .11		✓			VOCMS				
9	09	(wp) ~~.05~~ .10		✓			VOCMS				
10	10	(wp) ~~.06~~ .09		✓			VOCMS				
11	11	(wp) ~~.09~~ .06		✓			VOCMS		RRx1		
12	12	(wp) ~~.10~~ .05		✓			VOCMS				
13	13	(wp) ~~.11~~ .04		✓			VOCMS				
14	14	(wp) ~~.12~~ .03		✓			VOCMS		RRx1		
15	15	(wp) ~~.13~~ .13		✓			VOCMS				
~~16~~	~~16~~	~~.01~~ wp		✓			VOCMS				
~~17~~	~~17~~	~~.07~~ wp		✓			VOCMS				
~~18~~	~~18~~	~~.08~~ wp		✓			VOCMS				
16 ~~19~~	SA083016 ~~19~~	.02 MS		✓		↓	VOCMS		RRx1		
17 ~~20~~	17 ~~20~~	.02MSD		✓		x1	VOCMS		RRx1		
18 ~~21~~	18 ~~21~~	LCS					VOCMS				
19 ~~22~~	19 ~~22~~	LCSd					VOCMS	↓			
(wp)	(wp)						VOCMS	—			
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8/30/12 wp

COPY

Samples removed from autosampler, order and pH verified by wp 8/31/2012

GC/MS QA-QC Check Report

Tune File : T:\1\DATA\2012\AUG12\AUG3012\SA083002.D
Tune Time : 30 Aug 2012 1:19 pm

Daily Calibration File : T:\1\DATA\2012\AUG12\AUG3012\SA083003.D

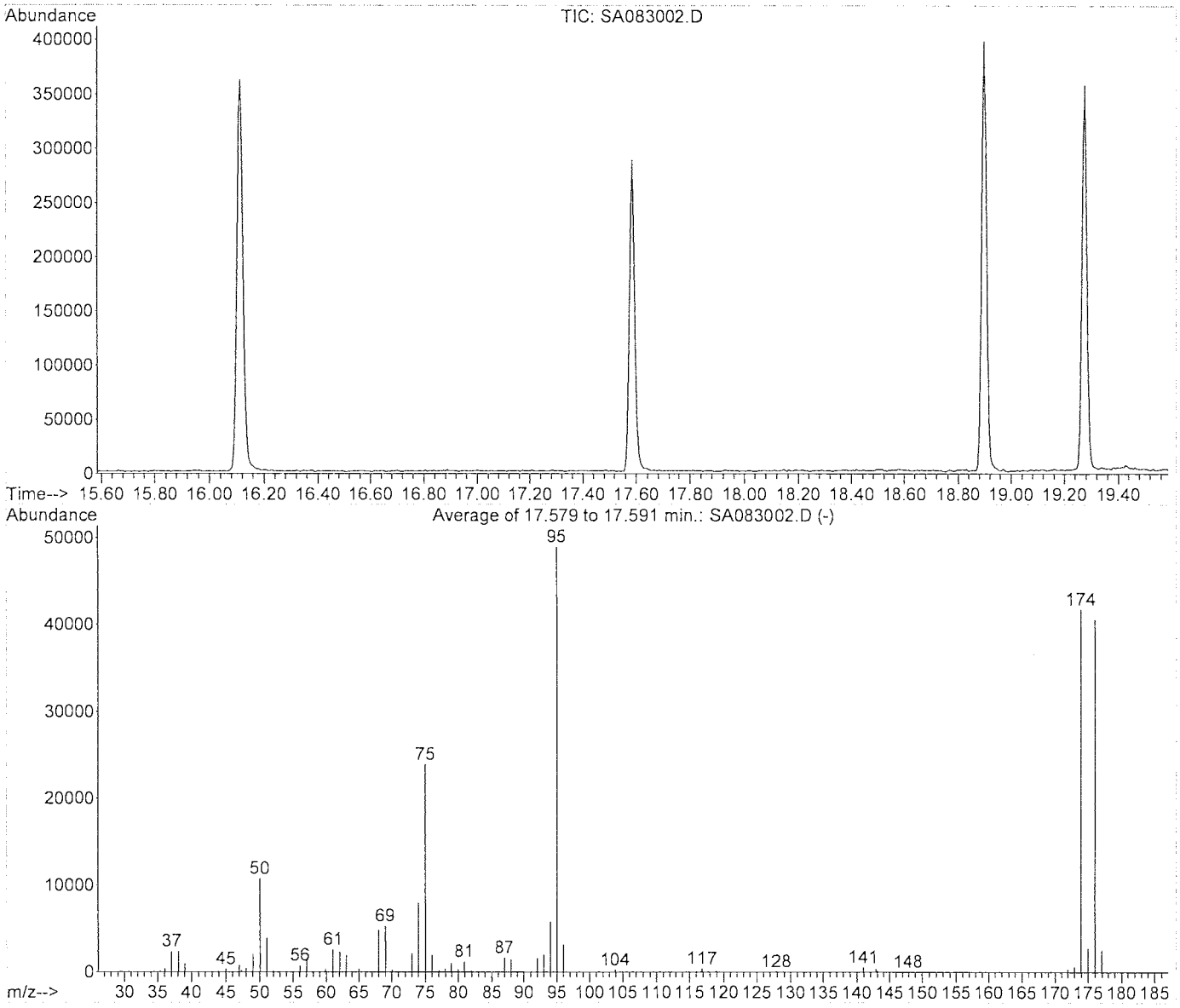
							268560	185289	84385

File	Sample	Surrogate Recovery %				Internal Standard Responses		
SA083003.D	STD 20	114	111	103	100	268560	185289	84385
		97	32*					
SA083004.D	STD 2	113	118	99	98	269640	185811	87850
		98	4*					
SA083005.D	MB	116	122	96	94	264482	181824	76607
		103	0*					
SA083006.D	113593.02	110	107	105	94	235239	149580	64545
		106	0*					
SA083007.D	113593.12	113	109	102	87	236874	154437	59370
		112	0*					
SA083008.D	113593.11	113	112	102	85	233541	153690	59999
		102	0*					
SA083009.D	113593.10	116	107	105	86	230196	149038	55686
		106	0*					
SA083010.D	113593.09	119	116	100	85	229753	158583	59478
		110	0*					
SA083011.D	113593.06	120	108	103	100	227681	148684	66814
		98	0*					
SA083012.D	113593.05	127	133*	94	90	225580	162962	65147
		108	0*					
SA083013.D	113593.04	119	118	100	94	229814	154773	63320
		102	0*					
SA083014.D	113593.03	115	97	104	92	223302	142202	54741
		99	0*					
SA083015.D	113593.13	126	122	97	88	224361	155145	59106
		110	0*					
SA083016.D	113593.02 (MS)	116	109	105	102	237875	162310	70935
		98	0*					
SA083017.D	113593.02 (MSD)	115	103	102	100	257139	173220	75977
		92	0*					
SA083018.D	LCS	122	118	100	107	263855	184219	90524
		95	0*					
SA083019.D	LCSD	112	103	105	101	270633	181868	80695
		93	0*					

t - fails 12hr time check * - fails criteria

Created: Fri Sep 07 13:43:59 2012 VOAMS3

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083002.D Vial: 2
Acq On : 30 Aug 2012 1:19 pm Operator: KJP/VG
Sample : BFB Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3



AutoFind: Scans 2547, 2548, 2549; Background Corrected with Scan 2540

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	10775	PASS
75	95	30	60	48.9	23917	PASS
95	95	100	100	100.0	48960	PASS
96	95	5	9	6.6	3207	PASS
173	174	0.00	2	1.5	630	PASS
174	95	50	100	85.3	41765	PASS
175	174	5	9	6.8	2838	PASS
176	174	95	101	97.1	40560	PASS
177	176	5	9	6.3	2572	PASS

SA083002.D 3VID0809.M Tue Sep 11 08:09:14 2012

Evaluate Continuing Calibration Report

Data File : P:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 1:49 pm Operator: KJP/VG
Sample : STD 20 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : P:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	101	0.00
2		dichlorodifluoromethane	20.000	14.232	28.8#	69	0.00
3	P	chloromethane	20.000	15.009	25.0#	84	0.00
4	C	vinyl chloride	20.000	17.770	11.2	94	0.00
5		bromomethane	20.000	14.781	26.1#	79	0.00
6		chloroethane	20.000	19.544	2.3	109	0.00
7		trichlorofluoromethane	20.000	23.304	-16.5	128	0.00
8		diethyl ether	20.000	20.741	-3.7	123	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	20.974	-4.9	115	0.00
10		acrolein	20.000	17.573	12.1	98	0.00
11		acetone	20.000	16.425	17.9	84	0.00
12	MC	1,1-dichloroethene	20.000	19.807	1.0	107	0.00
13		tert-Butyl Alcohol(TBA)	100.000	90.702	9.3	96	0.03
14		iodomethane	20.000	0.000	100.0#	0	0.00
15		methylene chloride	20.000	19.045	4.8	98	0.00
16		carbon disulfide	20.000	19.073	4.6	101	0.00
17		acrylonitrile	20.000	19.075	4.6	93	0.00
18		Methyl-t-butyl ether(MTBE)	40.000	41.892	-4.7	104	0.00
19		trans-1,2-dichloroethene	20.000	19.554	2.2	99	0.00
20		hexane	20.000	18.682	6.6	92	0.00
21		Isopropyl ether(DIPE)	20.000	19.881	0.6	100	0.00
22		vinyl acetate	20.000	28.038	-40.2#	166	0.00
23	P	1,1-dichloroethane	20.000	20.359	-1.8	101	0.00
24		Ethyl-t-butyl ether(ETBE)	20.000	21.191	-6.0	104	0.00
25		2,2-dichloropropane	20.000	21.569	-7.8	105	0.00
26		cis-1,2-dichloroethene	20.000	20.185	-0.9	103	0.00
27		2-butanone(MEK)	20.000	17.809	11.0	86	0.00
28		bromochloromethane	20.000	19.800	1.0	102	0.00
29		Tetrahydrofuran(THF)	20.000	18.373	8.1	93	0.00
30	C	chloroform	20.000	20.726	-3.6	108	0.00
31	S	SS Dibromofluoromethane_MS	10.000	11.424	-14.2	113	0.00
32		1,1,1-trichloroethane	20.000	21.663	-8.3	111	0.00
33		carbon tetrachloride	20.000	22.004	-10.0	108	-0.01
34		1,1-dichloropropene	20.000	20.988	-4.9	101	0.00
35	S	SS 1,2-DCA-d4_MS	10.000	11.124	-11.2	105	0.00
36		tert-amyl methyl ether(TAME	20.000	20.424	-2.1	101	0.00
37	M	benzene	20.000	19.416	2.9	99	0.00
38		1,2-dichloroethane	20.000	21.438	-7.2	108	0.00
39	M	trichloroethene	20.000	19.678	1.6	99	0.00
40	C	1,2-dichloropropane	20.000	19.581	2.1	98	0.00
41		1,4-dioxaneV	40.000	44.221	-10.6	107	0.02
42		dibromomethane	20.000	21.179	-5.9	108	0.00
43		bromodichloromethane	20.000	21.942	-9.7	110	0.00
44		2-Chloroethoxyethene	20.000	22.619	-13.1	112	0.00
45		4-methyl-2-pentanone(MIBK)	20.000	19.183	4.1	93	0.00
46		cis-1,3-dichloropropene	20.000	20.910	-4.6	100	0.00
47	I	Chlorobenzene-D5 IS	10.000	10.000	0.0	102	0.00
48	S	SS Toluene-d8_MS	10.000	10.330	-3.3	106	0.00
49	MC	toluene	20.000	20.223	-1.1	100	0.00
50		trans-1,3-dichloropropene	20.000	18.671	6.6	103	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : P:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 1:49 pm Operator: KJP/VG
Sample : STD 20 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : P:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51		1,1,2-trichloroethane	20.000	19.419	2.9	99	0.00
52		2-hexanone	20.000	18.160	9.2	87	0.00
53		tetrachloroethene	20.000	21.018	-5.1	104	0.00
54		1,3-dichloropropane	20.000	19.918	0.4	101	0.00
55		dibromochloromethane	20.000	22.314	-11.6	109	0.00
56		1,2-dibromoethane	20.000	20.179	-0.9	102	0.00
57	MP	chlorobenzene	20.000	20.363	-1.8	102	0.00
58		1,1,1,2-tetrachloroethane	20.000	22.156	-10.8	107	0.00
59	C	ethylbenzene	20.000	21.790	-8.9	102	0.00
60		mp-xylene	40.000	43.365	-8.4	104	0.00
61		o-xylene	20.000	21.509	-7.5	101	0.00
62		styrene	20.000	21.697	-8.5	104	0.00
63	P	bromoform	20.000	22.879	-14.4	111	0.00
64		iso-propylbenzene	20.000	22.295	-11.5	106	0.00
65	S	SS 4-BFB_MS	10.000	9.972	0.3	98	0.00
66	I	1,4-Dichlorobenzene-D4 IS	10.000	10.000	0.0	100	0.00
67		bromobenzene	20.000	20.498	-2.5	105	0.00
68	P	1,1,2,2-tetrachloroethane	20.000	20.045	-0.2	103	0.00
69		1,2,3-trichloropropane	20.000	20.177	-0.9	101	0.00
70		t-1,4-dichloro-2-butene	20.000	0.000	100.0#	0	0.00
71		n-propylbenzene	20.000	21.922	-9.6	104	0.00
72		2-chlorotoluene	20.000	20.844	-4.2	106	0.00
73		4-chlorotoluene	20.000	21.530	-7.7	107	0.00
74		1,3,5-trimethylbenzene	20.000	22.364	-11.8	106	0.00
75		tert-butylbenzene	20.000	21.541	-7.7	105	0.00
76		1,2,4-trimethylbenzene	20.000	22.241	-11.2	108	0.00
77		sec-butylbenzene	20.000	22.181	-10.9	107	0.00
78		1,3-dichlorobenzeneV	20.000	20.550	-2.8	103	0.00
79		p-isopropyltoluene	20.000	22.799	-14.0	107	0.00
80		1,4-dichlorobenzeneV	20.000	20.953	-4.8	107	0.00
81		1,2-dichlorobenzeneV	20.000	21.076	-5.4	108	0.00
82		n-butylbenzene	20.000	22.163	-10.8	104	0.00
83	S	SS 1,2-DCB-d4_MS	10.000	9.727	2.7	99	0.00
84		1,2-dibromo-3-chloropropane	20.000	20.106	-0.5	104	0.00
85		1,3,5-trichlorobenzV	20.000	21.748	-8.7	107	0.00
86		1,2,4-trichlorobenzV	20.000	21.294	-6.5	103	0.00
87		hexachlorobutadieneV	20.000	25.721	-28.6#	112	0.00
88		naphthaleneV	20.000	17.755	11.2	84	0.00
89		1,2,3-trichlorobenzV	20.000	18.432	7.8	93	0.00
90	S	SS 2,5-DBT_MS	20.000	12.817	35.9#	66	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 1:49 pm Operator: KJP/VG
Sample : STD 20 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 14:25:19 2012 Quant Results File: 3VID0809.RES

Quant Method : C:\MSDCHEM\1...\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	268560	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	185289	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	84385	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.234	111	80709	11.424 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 114.240%	
35) SS 1,2-DCA-d4_MS	10.365	65	74154	11.124 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 111.240%	
48) SS Toluene-d8_MS	14.014	98	261628	10.330 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 103.300%	
65) SS 4-BFB_MS	17.584	95	81537	9.972 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 99.720%	
83) SS 1,2-DCB-d4_MS	19.274	152	68681	9.727 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 97.270%	
90) SS 2,5-DBT_MS	22.595	250	32167	12.817 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery	= 32.043%#	
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.423	85	174507m	14.232 ug/L	
3) chloromethane	2.709	50	222499m	15.009 ug/L	
4) vinyl chloride	2.849	62	179629m	17.770 ug/L	
5) bromomethane	3.414	94	67248m	14.781 ug/L	
6) chloroethane	3.512	64	114988	19.544 ug/L	91
7) trichlorofluoromethane	3.858	101	392766	23.304 ug/L	94
8) diethyl ether	4.296	59	158221	20.741 ug/L	97
9) 1,1,2-Trichlorotrifluoroet	4.509	101	256404	20.974 ug/L	99
10) acrolein	4.521	56	43564	17.573 ug/L	98
11) acetone	4.624	43	97321	16.425 ug/L	96
12) 1,1-dichloroethene	4.819	96	196039	19.807 ug/L	96
13) tert-Butyl Alcohol(TBA)	5.008	59	103772m	90.702 ug/L	
15) methylene chloride	5.707	84	197611	19.045 ug/L	95
16) carbon disulfide	5.713	76	526160	19.073 ug/L	98
17) acrylonitrile	5.962	53	99646	19.075 ug/L	92
18) Methyl-t-butyl ether(MTBE)	5.993	73	967364	41.892 ug/L	99
19) trans-1,2-dichloroethene	6.272	96	203608	19.554 ug/L	95
20) hexane	6.388	57	246250	18.682 ug/L	99
21) Isopropyl ether(DIPE)	6.917	45	740812	19.881 ug/L	99
22) vinyl acetate	7.160	43	417918	28.038 ug/L	100
23) 1,1-dichloroethane	7.130	63	421434	20.359 ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.775	59	537339	21.191 ug/L	99
25) 2,2-dichloropropane	8.316	77	300570	21.569 ug/L	99
26) cis-1,2-dichloroethene	8.413	96	215783	20.185 ug/L	95
27) 2-butanone(MEK)	8.054	43	106130	17.809 ug/L	95
28) bromochloromethane	9.125	128	114454	19.800 ug/L #	83
29) Tetrahydrofuran(THF)	9.198	42	61589	18.373 ug/L	98
30) chloroform	8.754	83	421483	20.726 ug/L	99
32) 1,1,1-trichloroethane	9.635	97	391554	21.663 ug/L	93
33) carbon tetrachloride	10.183	117	363813	22.004 ug/L	99
34) 1,1-dichloropropene	9.988	75	287665	20.988 ug/L	99
36) tert-amyl methyl ether(TAM	10.286	73	372938	20.424 ug/L	97
37) benzene	10.596	78	705782	19.416 ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 1:49 pm Operator: KJP/VG
Sample : STD 20 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 14:25:19 2012 Quant Results File: 3VID0809.RES

Quant Method : C:\MSDCHEM\1...\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

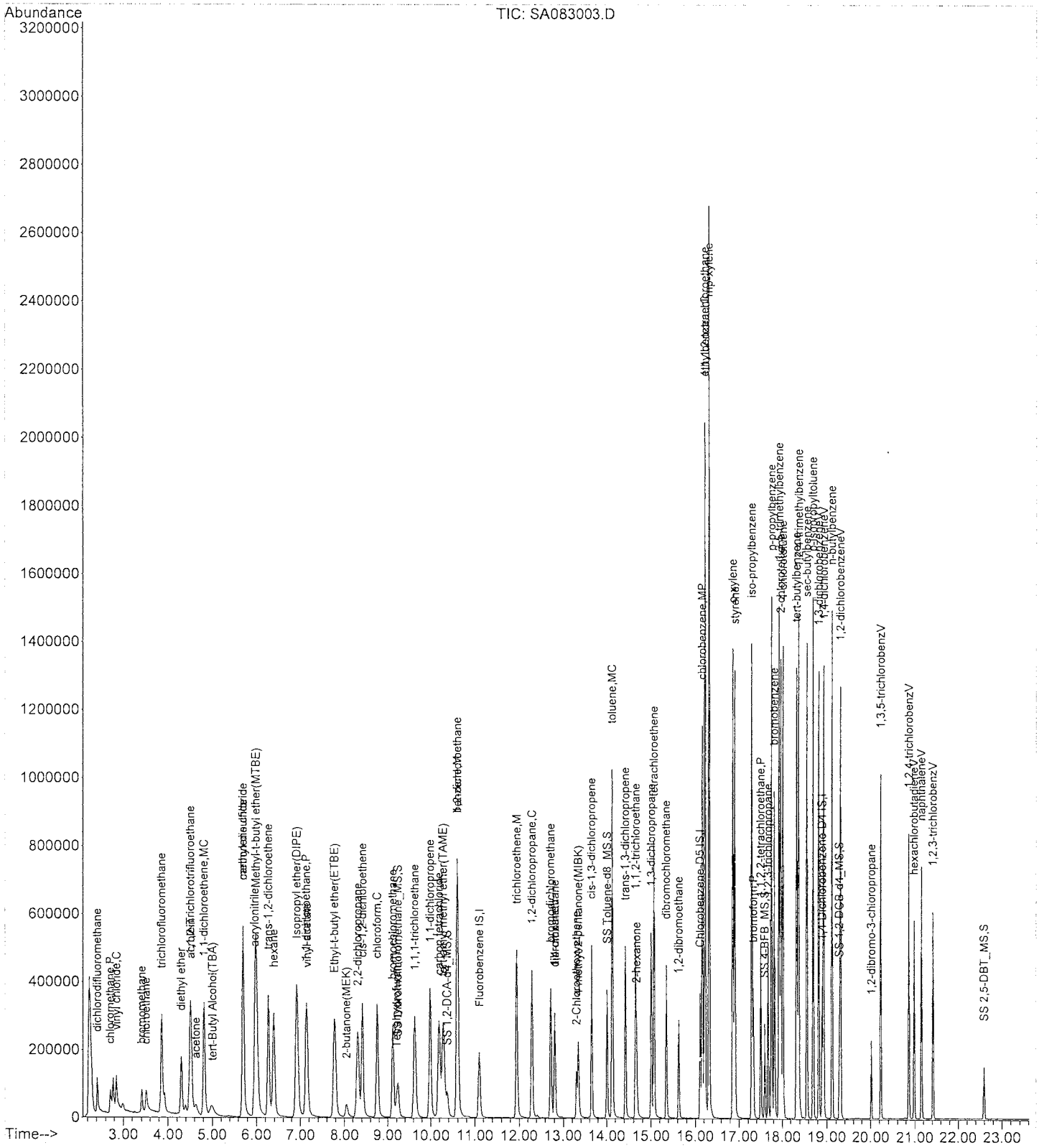
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	10.584	62	368909	21.438 ug/L	99
39)	trichloroethene	11.940	95	223626	19.678 ug/L	98
40)	1,2-dichloropropane	12.293	63	197737	19.581 ug/L	91
41)	1,4-dioxaneV	12.810	88	3188m	44.221 ug/L	
42)	dibromomethane	12.810	93	135790	21.179 ug/L	93
43)	bromodichloromethane	12.725	83	308160	21.942 ug/L	98
44)	2-Chloroethoxyethene	13.296	63	61470	22.619 ug/L	97
45)	4-methyl-2-pentanone(MIBK)	13.339	58	69427	19.183 ug/L	98
46)	cis-1,3-dichloropropene	13.649	75	271641	20.910 ug/L	98
49)	toluene	14.130	91	774464	20.223 ug/L	98
50)	trans-1,3-dichloropropene	14.428	75	256931	18.671 ug/L	94
51)	1,1,2-trichloroethane	14.640	83	128705	19.419 ug/L	98
52)	2-hexanone	14.671	43	135824	18.160 ug/L	97
53)	tetrachloroethene	15.072	166	255744	21.018 ug/L	97
54)	1,3-dichloropropane	15.005	76	269989	19.918 ug/L	100
55)	dibromochloromethane	15.352	129	237162	22.314 ug/L	99
56)	1,2-dibromoethane	15.626	107	189873	20.179 ug/L	100
57)	chlorobenzene	16.161	112	574026	20.363 ug/L	99
58)	1,1,1,2-tetrachloroethane	16.215	131	228074	22.156 ug/L	93
59)	ethylbenzene	16.228	91	934031	21.790 ug/L	98
60)	mp-xylene	16.319	106	737149	43.365 ug/L	100
61)	o-xylene	16.860	106	350767	21.509 ug/L	99
62)	styrene	16.903	104	558573	21.697 ug/L	98
63)	bromoform	17.322	173	156553	22.879 ug/L	97
64)	iso-propylbenzene	17.280	105	888468	22.295 ug/L	100
67)	bromobenzene	17.821	156	254754	20.498 ug/L	96
68)	1,1,2,2-tetrachloroethane	17.493	83	210245	20.045 ug/L	99
69)	1,2,3-trichloropropane	17.663	110	74360	20.177 ug/L	91
71)	n-propylbenzene	17.748	91	1069849	21.922 ug/L	100
72)	2-chlorotoluene	17.961	91	681226	20.844 ug/L	98
73)	4-chlorotoluene	18.016	91	711594	21.530 ug/L	99
74)	1,3,5-trimethylbenzene	17.924	105	782364	22.364 ug/L	96
75)	tert-butylbenzene	18.326	119	639869	21.541 ug/L	96
76)	1,2,4-trimethylbenzene	18.374	105	803137	22.241 ug/L	97
77)	sec-butylbenzene	18.563	105	904992	22.181 ug/L	98
78)	1,3-dichlorobenzeneV	18.824	146	446324	20.550 ug/L	97
79)	p-isopropyltoluene	18.703	119	797513	22.799 ug/L	100
80)	1,4-dichlorobenzeneV	18.934	146	463866	20.953 ug/L	97
81)	1,2-dichlorobenzeneV	19.299	146	430955	21.076 ug/L	99
82)	n-butylbenzene	19.110	91	662556	22.163 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.016	75	43186	20.106 ug/L	97
85)	1,3,5-trichlorobenzV	20.229	180	266401	21.748 ug/L	97
86)	1,2,4-trichlorobenzV	20.862	180	233735	21.294 ug/L	96
87)	hexachlorobutadieneV	20.983	225	103444	25.721 ug/L	100
88)	naphthaleneV	21.154	128	506970	17.755 ug/L	100
89)	1,2,3-trichlorobenzV	21.415	180	175646	18.432 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 1:49 pm Operator: KJP/VG
Sample : STD 20 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 4 15:00 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG3012\SA083004.D Vial: 4
Acq On : 30 Aug 2012 2:19 pm Operator: KJP/VG
Sample : STD 2 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 09:22:51 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.10	96	269640	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.11	117	185811	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.90	152	87850	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane MS	9.25	111	80186	11.30 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.05%		
35) SS 1,2-DCA-d4 MS	10.37	65	78873	11.78 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.84%		
48) SS Toluene-d8 MS	14.02	98	250769	9.87 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.73%		
65) SS 4-BFB MS	17.59	95	80402	9.81 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.06%		
83) SS 1,2-DCB-d4 MS	19.28	152	72394	9.85 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.49%		
90) SS 2,5-DBT MS	22.59	250	4630	1.77 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 4.43%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.42	85	13412	1.089 ug/L	81
3) chloromethane	2.70	50	24059m	1.616 ug/L	
4) vinyl chloride	2.86	62	17958m	1.769 ug/L	
5) bromomethane	3.42	94	7491m	1.640 ug/L	
6) chloroethane	3.51	64	10337	1.750 ug/L	97
7) trichlorofluoromethane	3.87	101	33779	1.996 ug/L	96
8) diethyl ether	4.30	59	14225	1.857 ug/L	89
9) 1,1,2-Trichlorotrifluoroet	4.50	101	25863	2.107 ug/L	94
10) acrolein	4.60	56	211	0.085 ug/L	69
11) acetone	4.64	43	10042m	1.688 ug/L	
12) 1,1-dichloroethene	4.82	96	17747	1.786 ug/L	88
13) tert-Butyl Alcohol(TBA)	5.00	59	9871m	8.593 ug/L	
14) iodomethane	5.39	142	81	No Calib #	
15) methylene chloride	5.71	84	20332	1.952 ug/L	93
16) carbon disulfide	5.72	76	54126	1.954 ug/L	99
17) acrylonitrile	5.98	53	9398m	1.792 ug/L	
18) Methyl-t-butyl ether(MTBE)	6.01	73	82653	3.565 ug/L	96
19) trans-1,2-dichloroethene	6.27	96	19970	1.910 ug/L	93
20) hexane	6.39	57	19420	1.467 ug/L #	92
21) Isopropyl ether(DIPE)	6.92	45	58641	1.567 ug/L	93
22) vinyl acetate	7.17	43	29528	1.973 ug/L	96
23) 1,1-dichloroethane	7.14	63	38569	1.856 ug/L	91
24) Ethyl-t-butyl ether(ETBE)	7.78	59	40982	1.610 ug/L	98
25) 2,2-dichloropropane	8.31	77	24470	1.749 ug/L	96
26) cis-1,2-dichloroethene	8.42	96	19659	1.832 ug/L #	83
27) 2-butanone(MEK)	8.07	43	9796m	1.637 ug/L	
28) bromochloromethane	9.11	128	10451	1.801 ug/L #	89
29) Tetrahydrofuran(THF)	9.23	42	5501	1.634 ug/L #	84
30) chloroform	8.76	83	41391	2.027 ug/L	97
32) 1,1,1-trichloroethane	9.63	97	35025	1.930 ug/L	95
33) carbon tetrachloride	10.20	117	29952	1.804 ug/L	96
34) 1,1-dichloropropene	9.99	75	23213	1.687 ug/L	93
36) tert-amyl methyl ether(TAM	10.28	73	27945	1.524 ug/L #	63
37) benzene	10.60	78	63554	1.741 ug/L	96
38) 1,2-dichloroethane	10.59	62	35500	2.055 ug/L	92
39) trichloroethene	11.94	95	19987	1.752 ug/L	93
40) 1,2-dichloropropane	12.30	63	17478	1.724 ug/L	91
41) 1,4-dioxaneV	0.00	88	0	N.D.	
42) dibromomethane	12.81	93	12712	1.975 ug/L	95

(#) = qualifier out of range (m) = manual integration
SA083004.D envdef.m Fri Sep 21 11:06:17 2012

Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG3012\SA083004.D Vial: 4
Acq On : 30 Aug 2012 2:19 pm Operator: KJP/VG
Sample : STD 2 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 09:22:51 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

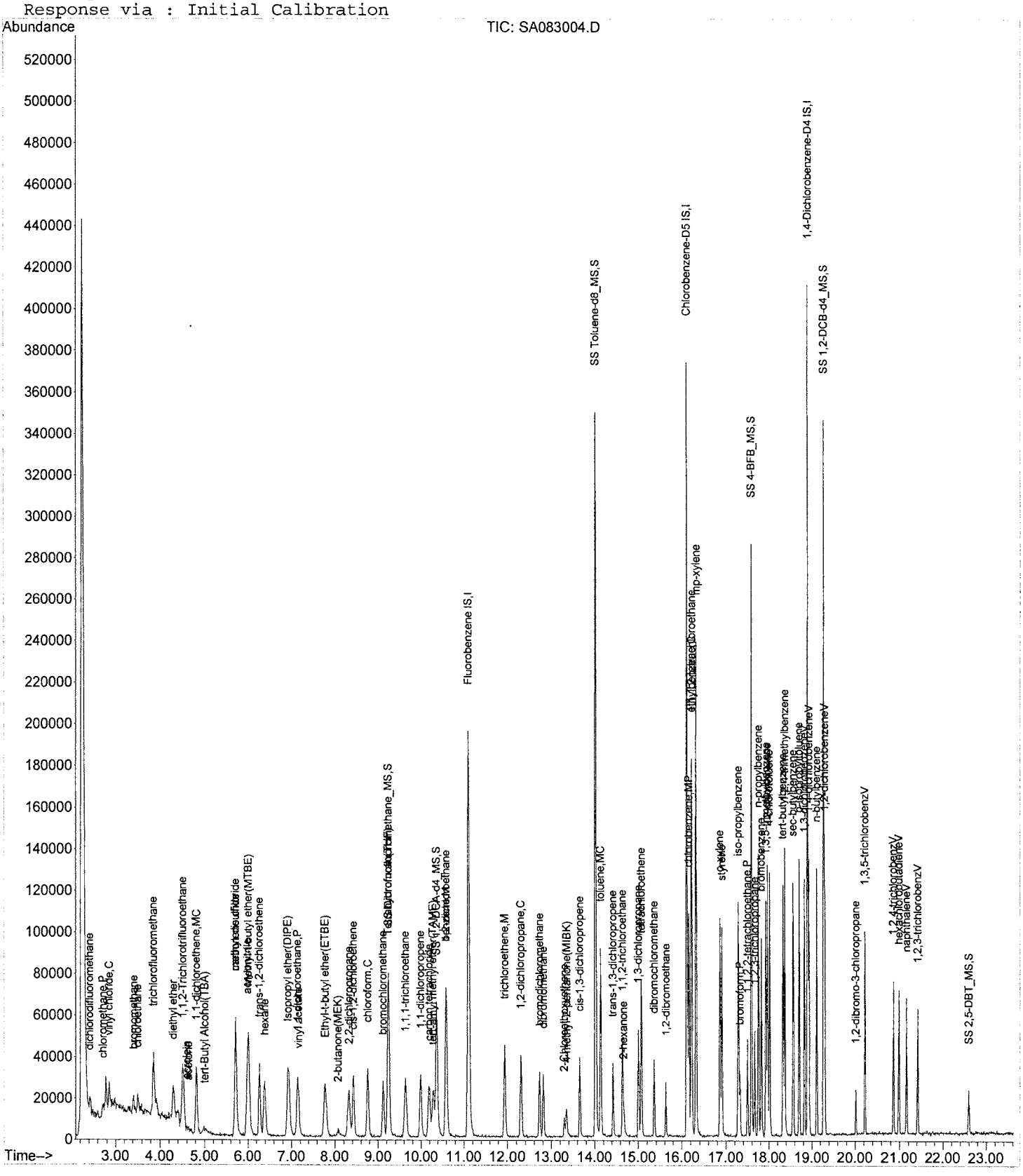
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	bromodichloromethane	12.72	83	26752	1.897 ug/L	97
44)	2-Chloroethoxyethene	13.30	63	3455	1.266 ug/L	81
45)	4-methyl-2-pentanone(MIBK)	13.35	58	4438	1.221 ug/L #	87
46)	cis-1,3-dichloropropene	13.65	75	21100	1.618 ug/L	92
49)	toluene	14.13	91	69145	1.800 ug/L	97
50)	trans-1,3-dichloropropene	14.42	75	18003	1.009 ug/L	100
51)	1,1,2-trichloroethane	14.64	83	12259	1.844 ug/L	90
52)	2-hexanone	14.67	43	9906	1.321 ug/L #	89
53)	tetrachloroethene	15.07	166	23523	1.928 ug/L	98
54)	1,3-dichloropropane	15.00	76	25437	1.871 ug/L	93
55)	dibromochloromethane	15.35	129	19816	1.859 ug/L	90
56)	1,2-dibromoethane	15.63	107	17079	1.810 ug/L	92
57)	chlorobenzene	16.16	112	53556	1.895 ug/L	91
58)	1,1,1,2-tetrachloroethane	16.22	131	21018	2.036 ug/L	93
59)	ethylbenzene	16.22	91	77711	1.808 ug/L	97
60)	mp-xylene	16.32	106	63729	3.739 ug/L	100
61)	o-xylene	16.86	106	26914	1.646 ug/L	92
62)	styrene	16.90	104	44832	1.737 ug/L	93
63)	bromoform	17.32	173	12568	1.832 ug/L	97
64)	iso-propylbenzene	17.28	105	68625	1.717 ug/L	100
67)	bromobenzene	17.82	156	24586	1.900 ug/L	93
68)	1,1,2,2-tetrachloroethane	17.49	83	19850	1.818 ug/L	93
69)	1,2,3-trichloropropane	17.66	110	7762	2.023 ug/L	95
70)	t-1,4-dichloro-2-butene	17.74	53	584	No Calib #	
71)	n-propylbenzene	17.75	91	93845	1.847 ug/L	98
72)	2-chlorotoluene	17.96	91	61788	1.816 ug/L	95
73)	4-chlorotoluene	18.01	91	66374	1.929 ug/L	96
74)	1,3,5-trimethylbenzene	17.92	105	60866	1.671 ug/L	99
75)	tert-butylbenzene	18.33	119	51396	1.662 ug/L	99
76)	1,2,4-trimethylbenzene	18.37	105	70337	1.871 ug/L	96
77)	sec-butylbenzene	18.56	105	75775	1.784 ug/L	96
78)	1,3-dichlorobenzeneV	18.83	146	43902	1.942 ug/L	95
79)	p-isopropyltoluene	18.70	119	65206	1.791 ug/L	96
80)	1,4-dichlorobenzeneV	18.93	146	44339	1.924 ug/L	99
81)	1,2-dichlorobenzeneV	19.30	146	40117	1.885 ug/L	94
82)	n-butylbenzene	19.11	91	54326	1.746 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.01	75	4291	1.919 ug/L #	79
85)	1,3,5-trichlorobenzV	20.23	180	24521	1.923 ug/L	98
86)	1,2,4-trichlorobenzV	20.86	180	19226	1.682 ug/L	88
87)	hexachlorobutadieneV	20.99	225	12637	0.943 ug/L	97
88)	naphthaleneV	21.16	128	46441	1.562 ug/L	95
89)	1,2,3-trichlorobenzV	21.42	180	17249	1.739 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : P:\1\DATA\2012\AUG12\AUG3012\SA083004.D Vial: 4
Acq On : 30 Aug 2012 2:19 pm Operator: KJP/VG
Sample : STD 2 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 4 15:01 2012 Quant Results File: 3VID0809.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083005.D Vial: 5
Acq On : 30 Aug 2012 2:49 pm Operator: KJP/VG
Sample : MB Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 09:22:54 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

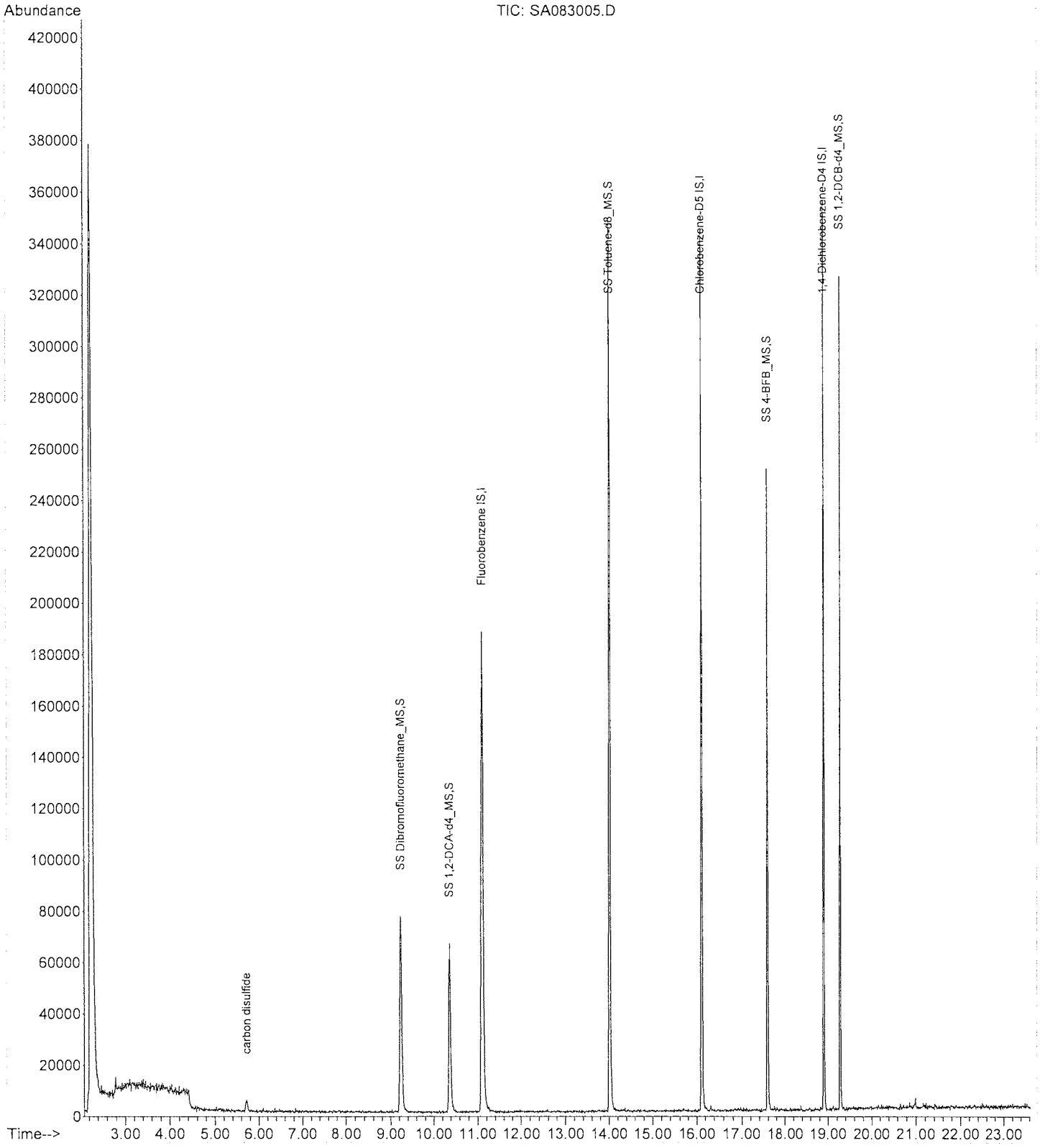
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	264482	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	181824	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	76607	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.245	111	80850	11.621 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.210%		
35) SS 1,2-DCA-d4_MS	10.370	65	79929	12.175 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 121.750%		
48) SS Toluene-d8_MS	14.013	98	239460	9.635 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.350%		
65) SS 4-BFB_MS	17.582	95	75454	9.404 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.040%		
83) SS 1,2-DCB-d4_MS	19.273	152	66084	10.310 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.100%		
90) SS 2,5-DBT_MS	22.587	250	125	0.055 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.137%#		
Target Compounds					Qvalue
16) carbon disulfide	5.718	76	7679	0.283 ug/L	84
50) trans-1,3-dichloropropene	14.438	75	285	Below Cal #	50
87) hexachlorobutadieneV	20.982	225	671	Below Cal #	42

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083005.D Vial: 5
Acq On : 30 Aug 2012 2:49 pm Operator: KJP/VG
Sample : MB Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 9:22 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083006.D Vial: 6
Acq On : 30 Aug 2012 3:20 pm Operator: KJP/VG
Sample : 113593.02 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:40 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

RRX1

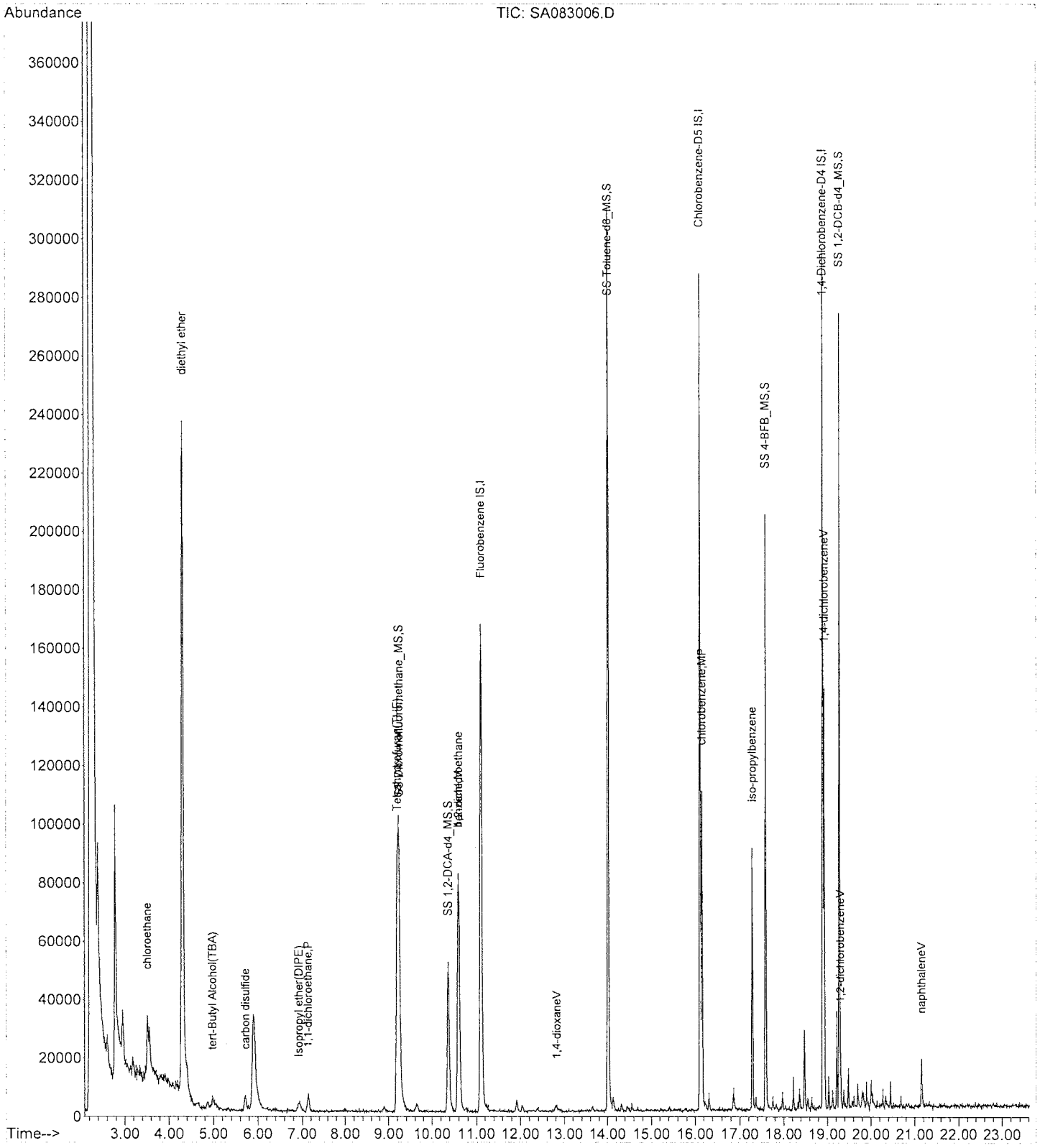
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	235239	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	149580	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	64545	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.246	111	68301	11.037 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.370%		
35) SS 1,2-DCA-d4_MS	10.371	65	62210	10.654 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.540%		
48) SS Toluene-d8_MS	14.013	98	215164	10.523 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.230%		
65) SS 4-BFB_MS	17.583	95	61959	9.387 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.870%		
83) SS 1,2-DCB-d4_MS	19.274	152	57085	10.570 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.700%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
6) chloroethane	3.511	64	28172	5.467 ug/L	94
8) diethyl ether	4.295	59	213080	31.889 ug/L	96
13) tert-Butyl Alcohol(TBA)	4.977	59	5436	5.424 ug/L #	87
16) carbon disulfide	5.725	76	6475	0.268 ug/L	60
21) Isopropyl ether(DIPE)	6.923	45	6659	0.204 ug/L #	72
23) 1,1-dichloroethane	7.142	63	10867	0.599 ug/L	83
29) Tetrahydrofuran(THF)	9.197	42	91389	31.124 ug/L	98
37) benzene	10.590	78	106985	3.360 ug/L	99
38) 1,2-dichloroethane	10.596	62	7891	0.524 ug/L	74
41) 1,4-dioxaneV	12.815	88	1413	30.917 ug/L #	94
50) trans-1,3-dichloropropene	14.433	75	77	Below Cal #	50
57) chlorobenzene	16.160	112	51383	2.258 ug/L	99
64) iso-propylbenzene	17.285	105	52003	1.616 ug/L	92 ↑MS
80) 1,4-dichlorobenzeneV	18.933	146	46268	2.732 ug/L	99
81) 1,2-dichlorobenzeneV	19.304	146	3858	0.247 ug/L	98
87) hexachlorobutadieneV	20.983	225	78	Below Cal #	42
88) naphthaleneV	21.159	128	9904	0.453 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083006.D 3VID0809.M Fri Sep 07 13:45:42 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083006.D Vial: 6
Acq On : 30 Aug 2012 3:20 pm Operator: KJP/VG
Sample : 113593.02 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:45 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083007.D Vial: 7
Acq On : 30 Aug 2012 3:50 pm Operator: KJP/VG
Sample : 113593.12 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:36 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	236874	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	154437	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	59370	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.239	111	70197	11.265	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.650%			
35) SS 1,2-DCA-d4_MS	10.370	65	64039	10.891	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.910%			
48) SS Toluene-d8_MS	14.013	98	214593	10.165	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.650%			
65) SS 4-BFB_MS	17.583	95	59502	8.731	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.310%			
83) SS 1,2-DCB-d4_MS	19.273	152	55802	11.233	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.330%			
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
6) chloroethane	3.529	64	1621	0.312	ug/L	68
11) acetone	4.642	43	1847	0.353	ug/L	51
16) carbon disulfide	5.712	76	6116	0.251	ug/L	86

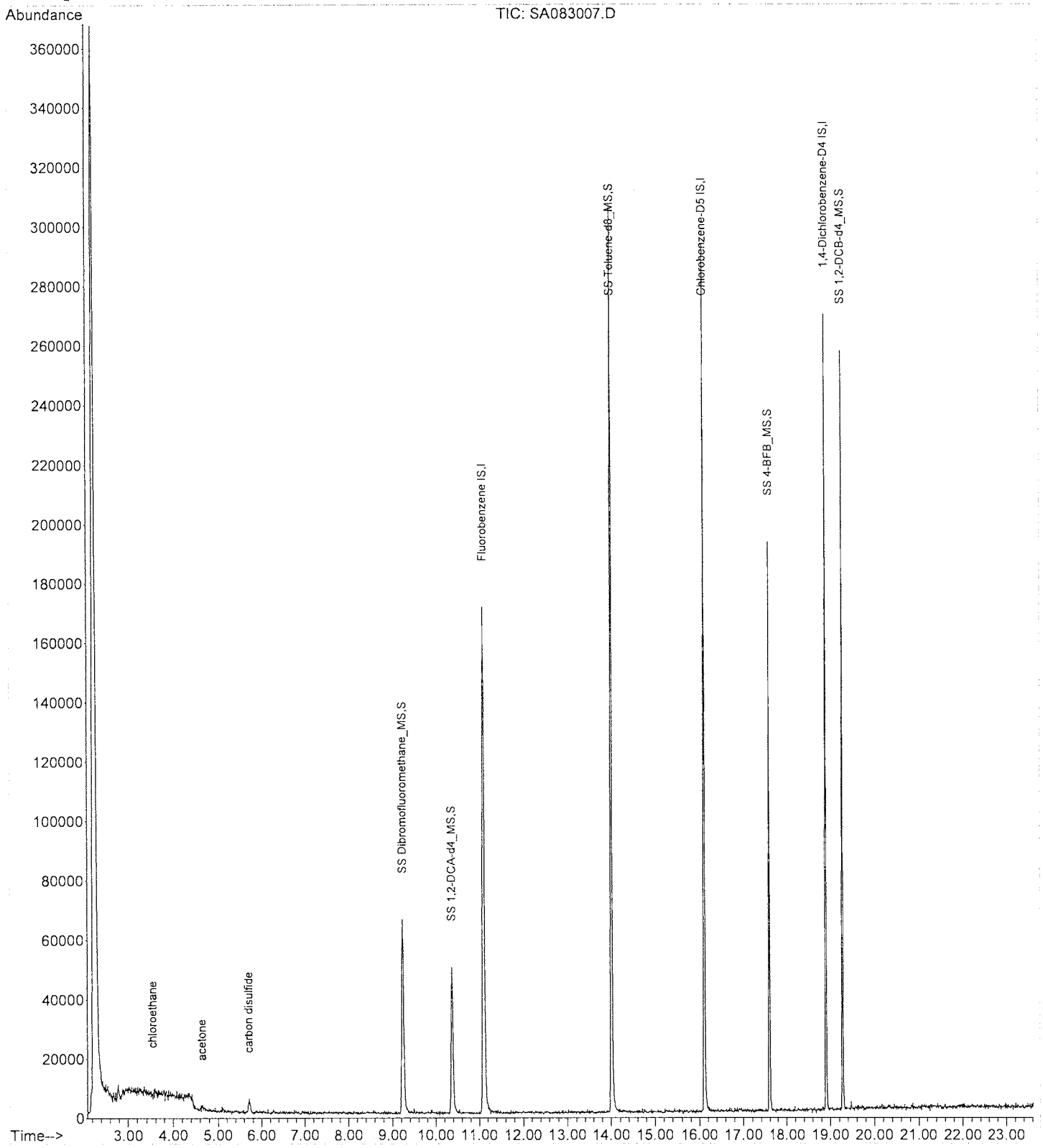
9/11/12
KP

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083007.D Vial: 7
Acq On : 30 Aug 2012 3:50 pm Operator: KJP/VG
Sample : 113593.12 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083008.D Vial: 8
Acq On : 30 Aug 2012 4:20 pm Operator: KJP/VG
Sample : 113593.11 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:41 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	233541	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	153690	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.903	152	59999	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.234	111	69468	11.308 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.080%		
35) SS 1,2-DCA-d4_MS	10.371	65	64939	11.202 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.020%		
48) SS Toluene-d8_MS	14.013	98	214441	10.207 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.070%		
65) SS 4-BFB_MS	17.583	95	57749	8.515 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.150%		
83) SS 1,2-DCB-d4_MS	19.274	152	51379	10.234 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.340%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
6) chloroethane	3.541	64	2124	0.415 ug/L	90
16) carbon disulfide	5.719	76	4938	0.206 ug/L	75
50) trans-1,3-dichloropropene	14.427	75	111	Below Cal #	50

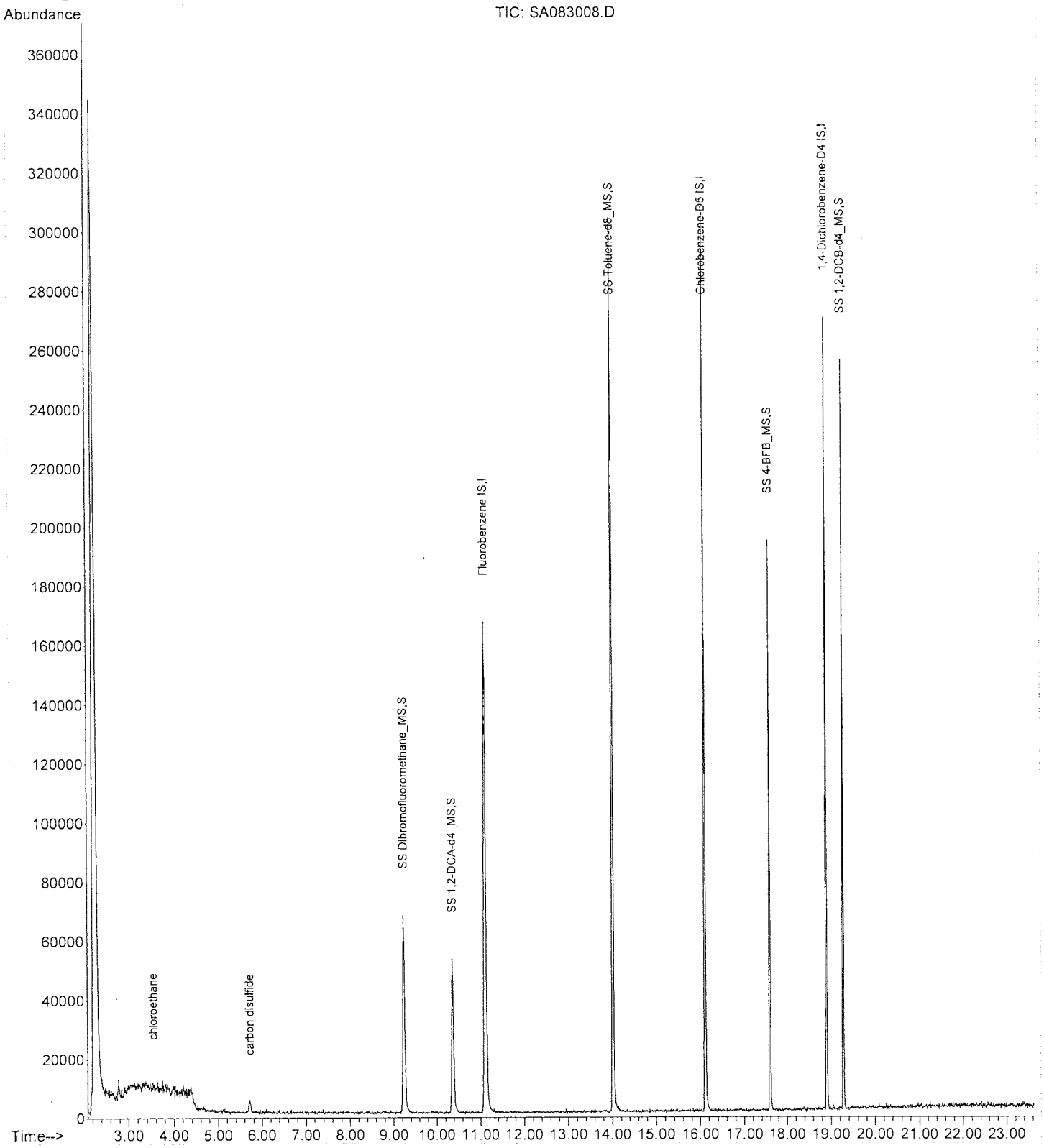
9/11/12
KJP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083008.D 3VID0809.M Fri Sep 07 13:42:42 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083008.D Vial: 8
Acq On : 30 Aug 2012 4:20 pm Operator: KJP/VG
Sample : 113593.11 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083009.D Vial: 9
Acq On : 30 Aug 2012 4:51 pm Operator: KJP/VG
Sample : 113593.10 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:45 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	230196	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	149038	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	55686	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.239	111	70517	11.645 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.450%		
35) SS 1,2-DCA-d4_MS	10.370	65	61100	10.693 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.930%		
48) SS Toluene-d8_MS	14.013	98	213635	10.487 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.870%		
65) SS 4-BFB_MS	17.583	95	56832	8.641 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.410%		
83) SS 1,2-DCB-d4_MS	19.273	152	49226	10.565 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.650%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
5) bromomethane	3.431	94	1107	0.284 ug/L #	1
6) chloroethane	3.571	64	1493	0.296 ug/L	89
11) acetone	4.617	43	1818	0.358 ug/L	98
16) carbon disulfide	5.724	76	4895	0.207 ug/L	86

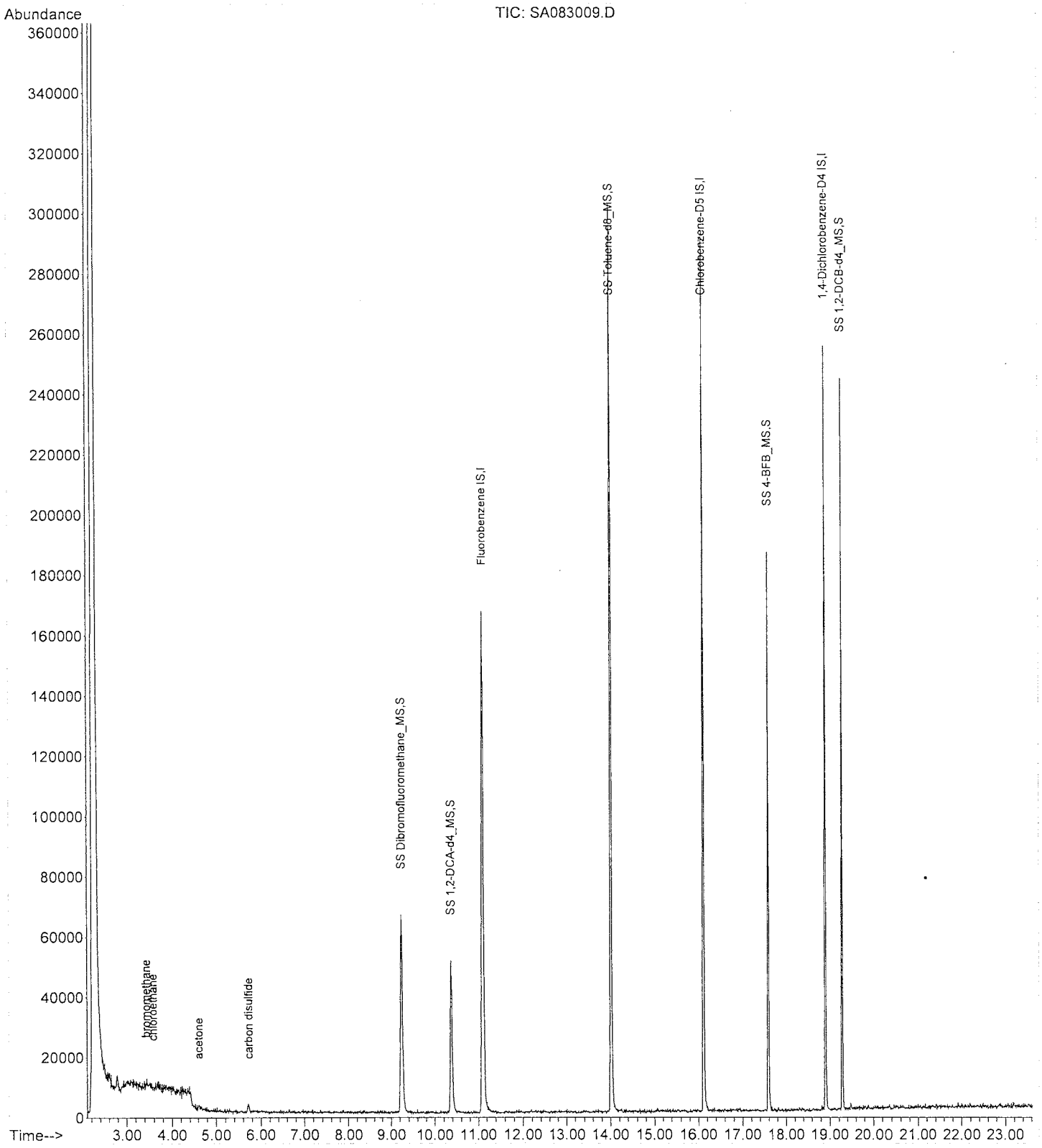
9/11/12
VSP

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083009.D Vial: 9
Acq On : 30 Aug 2012 4:51 pm Operator: KJP/VG
Sample : 113593.10 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083010.D Vial: 10
Acq On : 30 Aug 2012 5:21 pm Operator: KJP/VG
Sample : 113593.09 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:49 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.100	96	229753	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	158583	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.903	152	59478	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.239	111	71962	11.907 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.070%		
35) SS 1,2-DCA-d4_MS	10.370	65	66342	11.633 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.330%		
48) SS Toluene-d8_MS	14.013	98	215746	9.953 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.530%		
65) SS 4-BFB_MS	17.583	95	59822	8.548 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.480%		
83) SS 1,2-DCB-d4_MS	19.274	152	54877	11.027 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.270%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
11) acetone	4.605	43	1059	0.209 ug/L	51
50) trans-1,3-dichloropropene	14.427	75	93	Below Cal #	50
87) hexachlorobutadieneV	20.976	225	90	Below Cal #	42

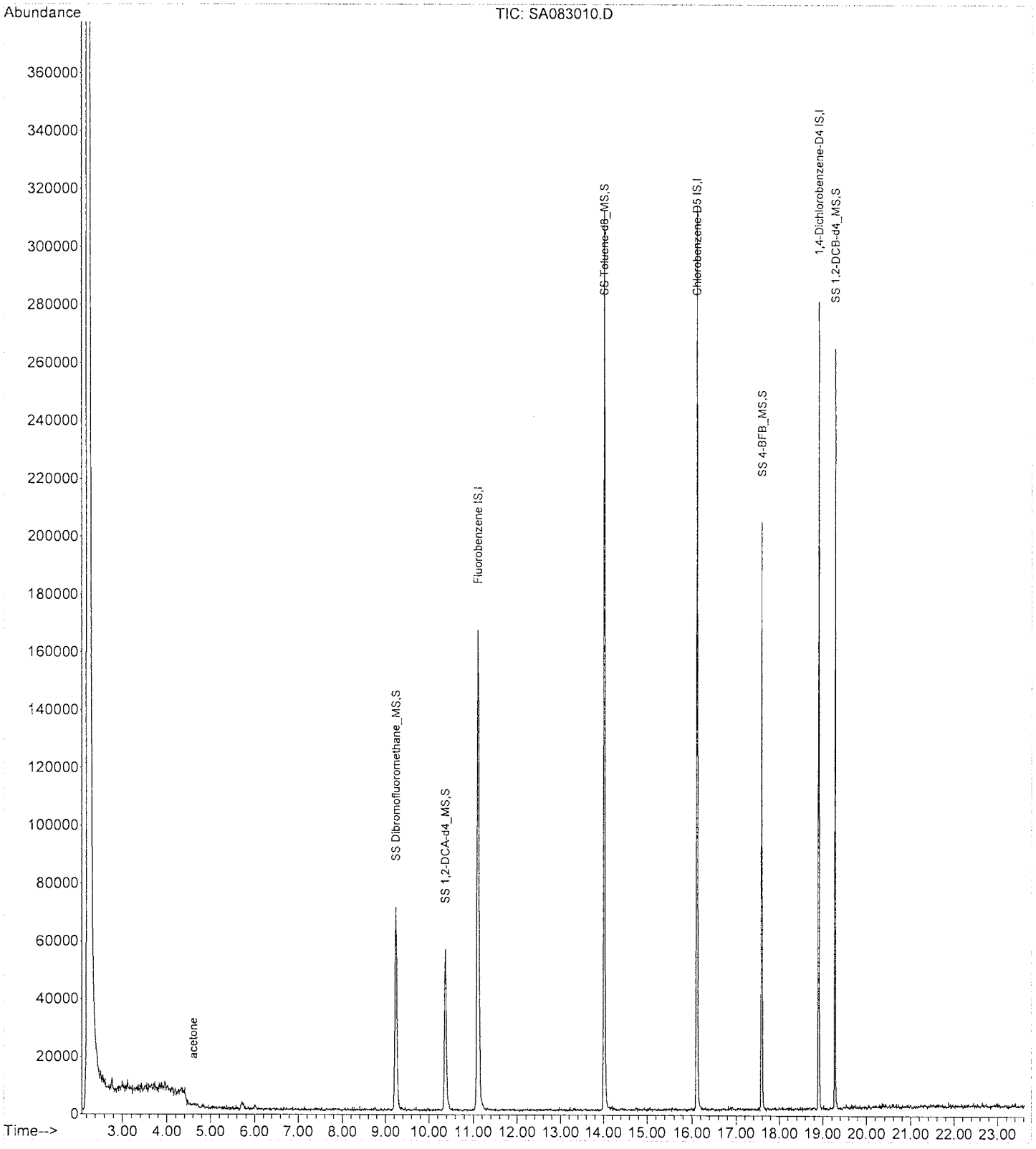
9/11/12
KJP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083010.D 3VID0809.M Fri Sep 07 13:42:50 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083010.D Vial: 10
Acq On : 30 Aug 2012 5:21 pm Operator: KJP/VG
Sample : 113593.09 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083011.D Vial: 11
Acq On : 30 Aug 2012 5:51 pm Operator: KJP/VG
Sample : 113593.06 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:53 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

RRX 1

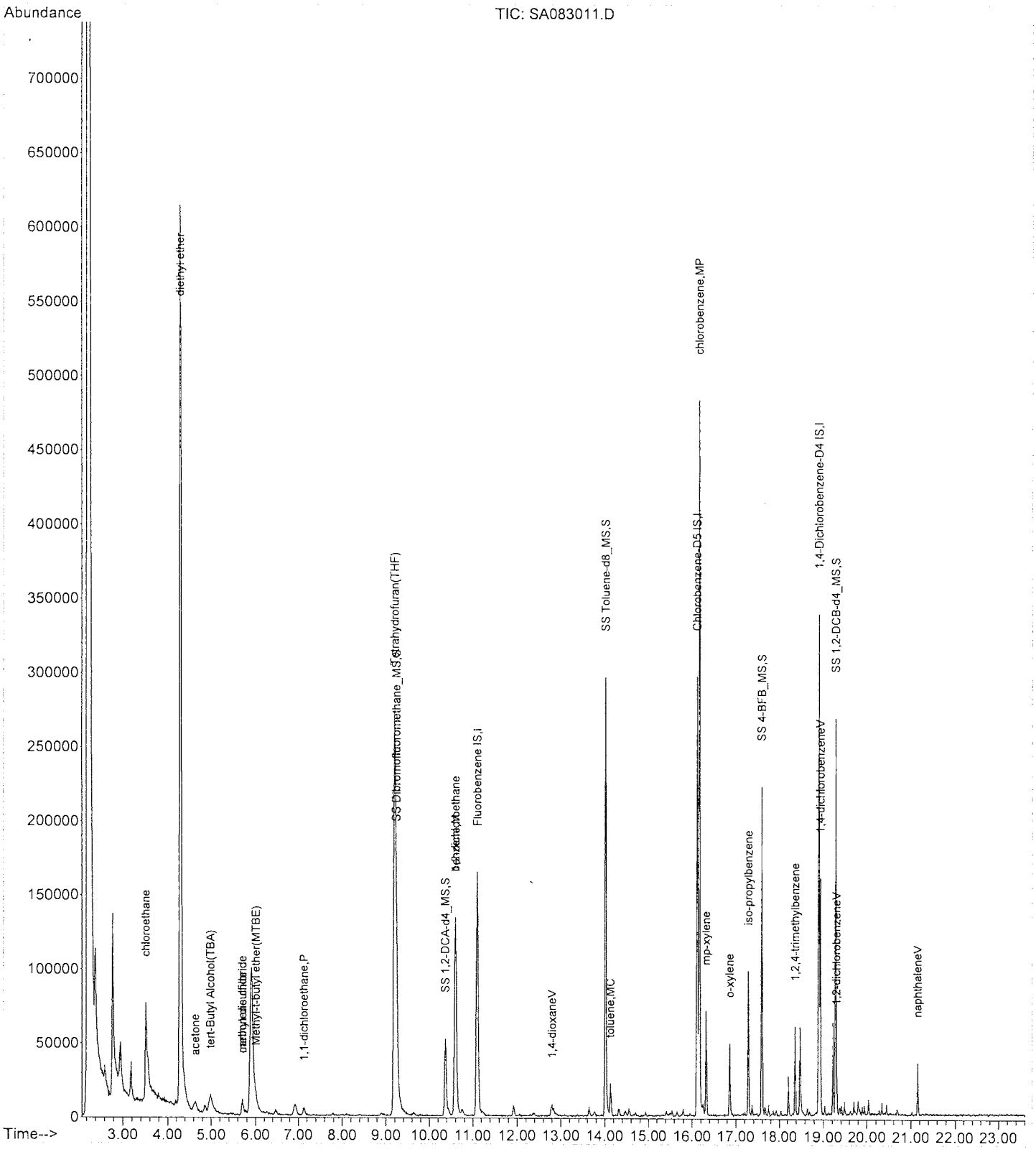
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	227681	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	148684	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	66814	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.240	111	71868	11.999 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.990%		
35) SS 1,2-DCA-d4_MS	10.371	65	61175	10.824 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.240%		
48) SS Toluene-d8_MS	14.014	98	209345	10.300 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.000%		
65) SS 4-BFB_MS	17.583	95	65651	10.006 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.060%		
83) SS 1,2-DCB-d4_MS	19.274	152	54939	9.827 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.270%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
6) chloroethane	3.511	64	114334	22.922 ug/L	91
8) diethyl ether	4.296	59	569672	88.087 ug/L	95
11) acetone	4.630	43	13306	2.649 ug/L	92
13) tert-Butyl Alcohol(TBA)	4.989	59	37421	38.580 ug/L	98
15) methylene chloride	5.707	84	4281	0.487 ug/L #	71
16) carbon disulfide	5.713	76	5852	0.250 ug/L	95
18) Methyl-t-butyl ether(MTBE)	6.017	73	9120	0.466 ug/L #	75
23) 1,1-dichloroethane	7.136	63	8663	0.494 ug/L	73
29) Tetrahydrofuran(THF)	9.191	42	333103	117.209 ug/L	99
37) benzene	10.596	78	172851	5.609 ug/L	95
38) 1,2-dichloroethane	10.590	62	3852	0.264 ug/L #	13
41) 1,4-dioxaneV	12.804	88	6880	85.848 ug/L #	63
49) toluene	14.135	91	16411	0.534 ug/L	93
50) trans-1,3-dichloropropene	14.421	75	76	Below Cal #	50
57) chlorobenzene	16.160	112	239598	10.592 ug/L	96
60) mp-xylene	16.319	106	18536	1.359 ug/L	98
61) o-xylene	16.854	106	12470	0.953 ug/L #	69
64) iso-propylbenzene	17.285	105	57853	1.809 ug/L	97
76) 1,2,4-trimethylbenzene	18.374	105	30410	1.064 ug/L	94 ↑MS
80) 1,4-dichlorobenzeneV	18.933	146	48916	2.791 ug/L	98
81) 1,2-dichlorobenzeneV	19.298	146	5253	0.324 ug/L	92
88) naphthaleneV	21.153	128	24187	1.070 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083011.D 3VID0809.M Fri Sep 07 13:42:54 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083011.D Vial: 11
Acq On : 30 Aug 2012 5:51 pm Operator: KJP/VG
Sample : 113593.06 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083012.D Vial: 12
Acq On : 30 Aug 2012 6:21 pm Operator: KJP/VG
Sample : 113593.05 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:42:57 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.109	96	225580	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.114	117	162962	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.899	152	65147	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.236	111	75221	12.676 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.760%		
35) SS 1,2-DCA-d4_MS	10.373	65	74449	13.296 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 132.960%#		
48) SS Toluene-d8_MS	14.016	98	210309	9.441 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.410%		
65) SS 4-BFB_MS	17.585	95	64705	8.998 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.980%		
83) SS 1,2-DCB-d4_MS	19.276	152	59017	10.827 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.270%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
11) acetone	4.644	43	5251	1.055 ug/L	93
16) carbon disulfide	5.721	76	5454	0.235 ug/L	98
18) Methyl-t-butyl ether(MTBE)	6.006	73	6625	0.342 ug/L #	77

9/11/12

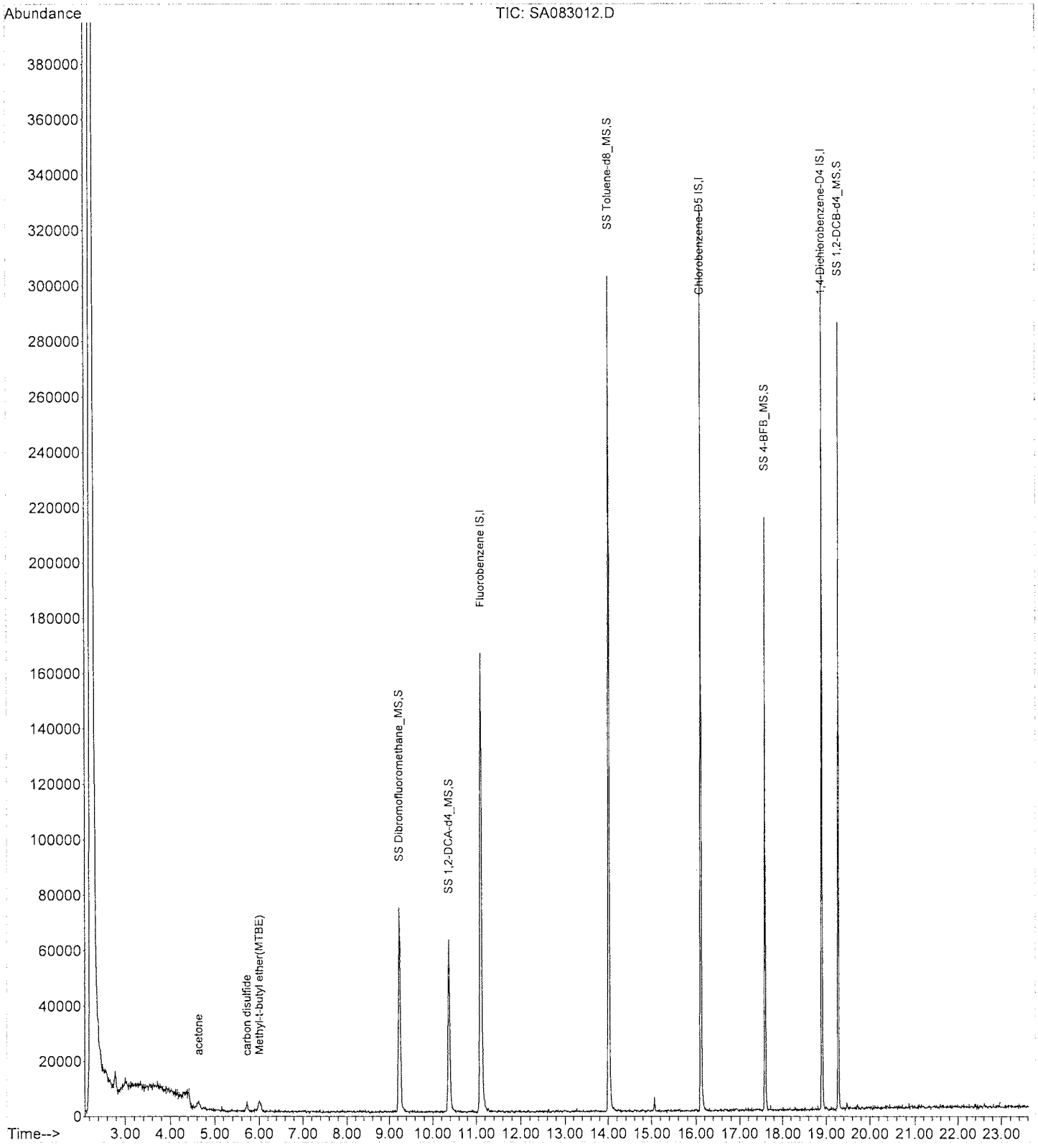
MSP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083012.D 3VID0809.M Fri Sep 07 13:42:58 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083012.D Vial: 12
Acq On : 30 Aug 2012 6:21 pm Operator: KJP/VG
Sample : 113593.05 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:42 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083013.D Vial: 13
Acq On : 30 Aug 2012 6:51 pm Operator: KJP/VG
Sample : 113593.04 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:43:01 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	229814	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.117	117	154773	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	63320	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.239	111	72159	11.936 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.360%		
35) SS 1,2-DCA-d4_MS	10.370	65	67057	11.755 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.550%		
48) SS Toluene-d8_MS	14.012	98	212581	10.048 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.480%		
65) SS 4-BFB_MS	17.582	95	64175	9.396 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.960%		
83) SS 1,2-DCB-d4_MS	19.273	152	53825	10.159 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.590%		
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#		
Target Compounds					Qvalue
6) chloroethane	3.510	64	207925	41.299 ug/L	93
8) diethyl ether	4.294	59	726905	111.356 ug/L	95
11) acetone	4.611	43	5095	1.005 ug/L	51
13) tert-Butyl Alcohol(TBA)	5.000	59	32802	33.504 ug/L #	94
15) methylene chloride	5.705	84	2922	0.329 ug/L #	78
16) carbon disulfide	5.711	76	6644	0.281 ug/L	86
18) Methyl-t-butyl ether(MTBE)	6.015	73	13302	0.673 ug/L #	54
21) Isopropyl ether(DIPE)	6.903	45	9270	0.291 ug/L #	41
23) 1,1-dichloroethane	7.140	63	8141	0.460 ug/L	89
29) Tetrahydrofuran(THF)	9.190	42	249260	86.893 ug/L	99
37) benzene	10.595	78	70746	2.274 ug/L	93
38) 1,2-dichloroethane	10.589	62	11571	0.786 ug/L	92
41) 1,4-dioxaneV	12.790	88	3751	54.320 ug/L #	59
50) trans-1,3-dichloropropene	14.426	75	76	Below Cal #	50
57) chlorobenzene	16.165	112	74866	3.179 ug/L	96
64) iso-propylbenzene	17.284	105	32196	0.967 ug/L	94
80) 1,4-dichlorobenzeneV	18.932	146	35622	2.144 ug/L	96
81) 1,2-dichlorobenzeneV	19.297	146	4576	0.298 ug/L	78
88) naphthaleneV	21.158	128	4865	0.227 ug/L	75

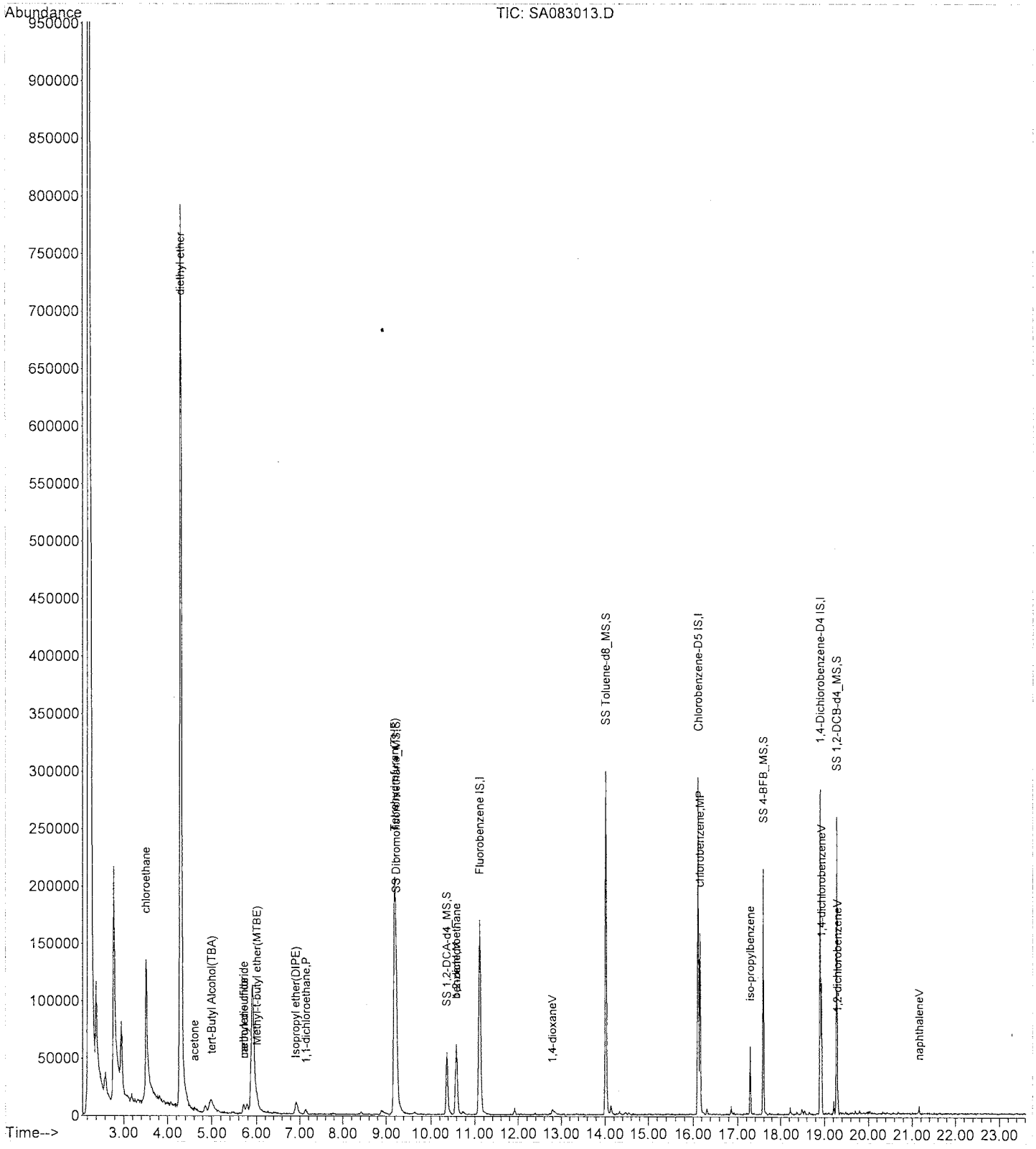
9/11/12
KP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083013.D 3VID0809.M Fri Sep 07 13:43:02 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083013.D Vial: 13
Acq On : 30 Aug 2012 6:51 pm Operator: KJP/VG
Sample : 113593.04 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:43 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083014.D Vial: 14
Acq On : 30 Aug 2012 7:21 pm Operator: KJP/VG
Sample : 113593.03 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:43:05 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

RE X1

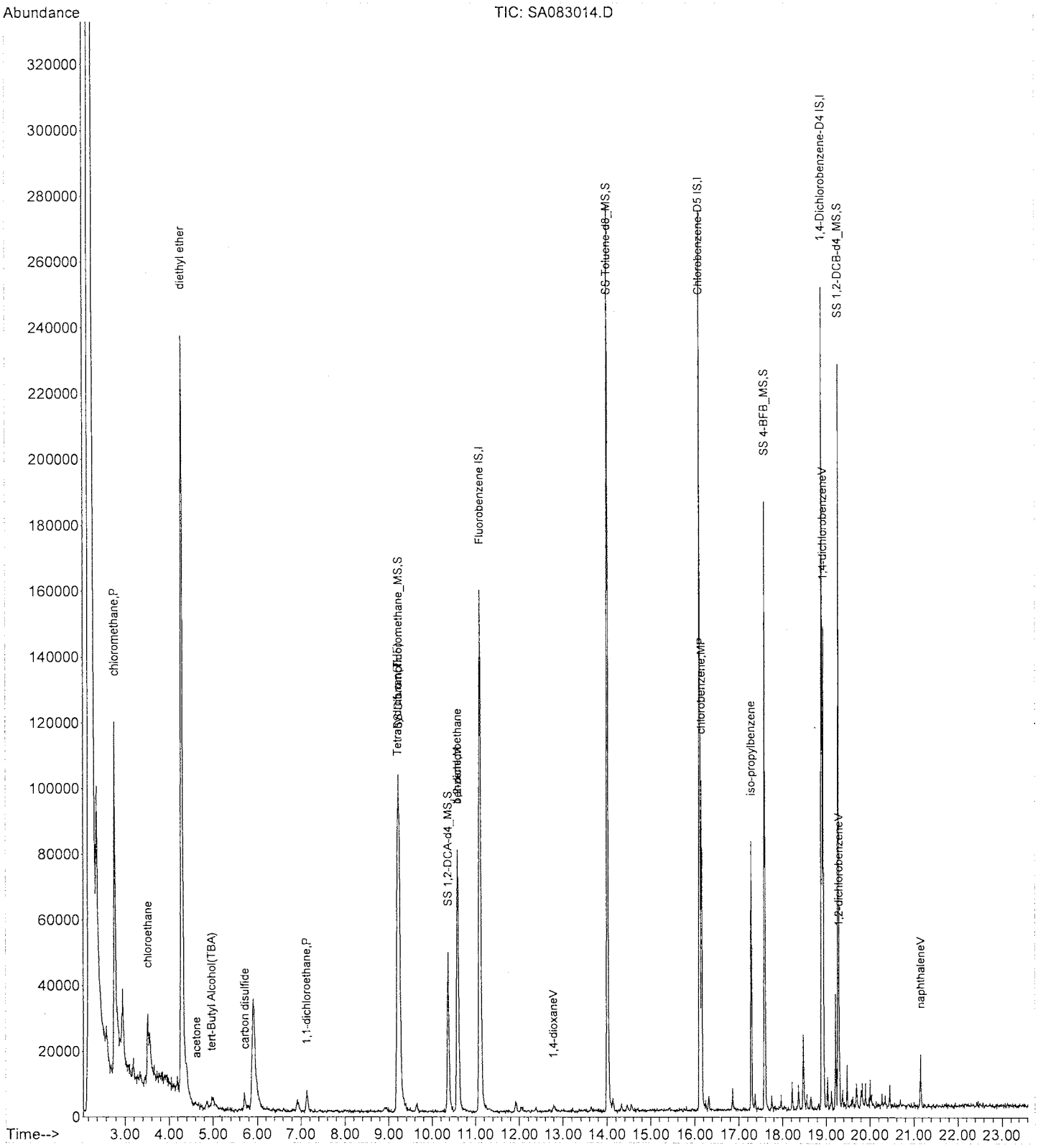
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.106	96	223302	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.110	117	142202	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.902	152	54741	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	9.233	111	67592	11.507 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 115.070%	
35) SS 1,2-DCA-d4_MS	10.376	65	53719	9.691 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 96.910%	
48) SS Toluene-d8_MS	14.019	98	202501	10.418 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 104.180%	
65) SS 4-BFB_MS	17.582	95	57892	9.226 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 92.260%	
83) SS 1,2-DCB-d4_MS	19.273	152	45249	9.879 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	= 98.790%	
90) SS 2,5-DBT_MS	0.000	250	0	0.000 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery	= 0.000%#	
Target Compounds					Qvalue
3) chloromethane	2.774	50	6201	0.503 ug/L	81
6) chloroethane	3.516	64	29571	6.045 ug/L	78
8) diethyl ether	4.294	59	206244	32.516 ug/L	95
11) acetone	4.617	43	2513	0.510 ug/L	51
13) tert-Butyl Alcohol(TBA)	4.976	59	4356	4.579 ug/L #	67
16) carbon disulfide	5.711	76	4922	0.215 ug/L	76
23) 1,1-dichloroethane	7.134	63	9324	0.542 ug/L	85
29) Tetrahydrofuran(THF)	9.208	42	90526	32.478 ug/L	99
37) benzene	10.595	78	96595	3.196 ug/L	97
38) 1,2-dichloroethane	10.595	62	7063	0.494 ug/L	72
41) 1,4-dioxaneV	12.790	88	1674	34.297 ug/L #	95
57) chlorobenzene	16.159	112	48999	2.265 ug/L	97
64) iso-propylbenzene	17.284	105	46980	1.536 ug/L	93 ↑MS
80) 1,4-dichlorobenzeneV	18.932	146	44739	3.115 ug/L	95
81) 1,2-dichlorobenzeneV	19.297	146	3467	0.261 ug/L	90
88) naphthaleneV	21.158	128	9511	0.513 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083014.D Vial: 14
Acq On : 30 Aug 2012 7:21 pm Operator: KJP/VG
Sample : 113593.03 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:43 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083015.D Vial: 15
Acq On : 30 Aug 2012 7:52 pm Operator: KJP/VG
Sample : 113593.13 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:45 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	224361	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	155145	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.904	152	59106	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.240	111	74409	12.607	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.070%			
35) SS 1,2-DCA-d4_MS	10.372	65	67748	12.165	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 121.650%			
48) SS Toluene-d8_MS	14.014	98	205218	9.677	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.770%			
65) SS 4-BFB_MS	17.584	95	60067	8.774	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.740%			
83) SS 1,2-DCB-d4_MS	19.275	152	54632	11.047	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.470%			
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
16) carbon disulfide	5.719	76	5102	0.221	ug/L	74

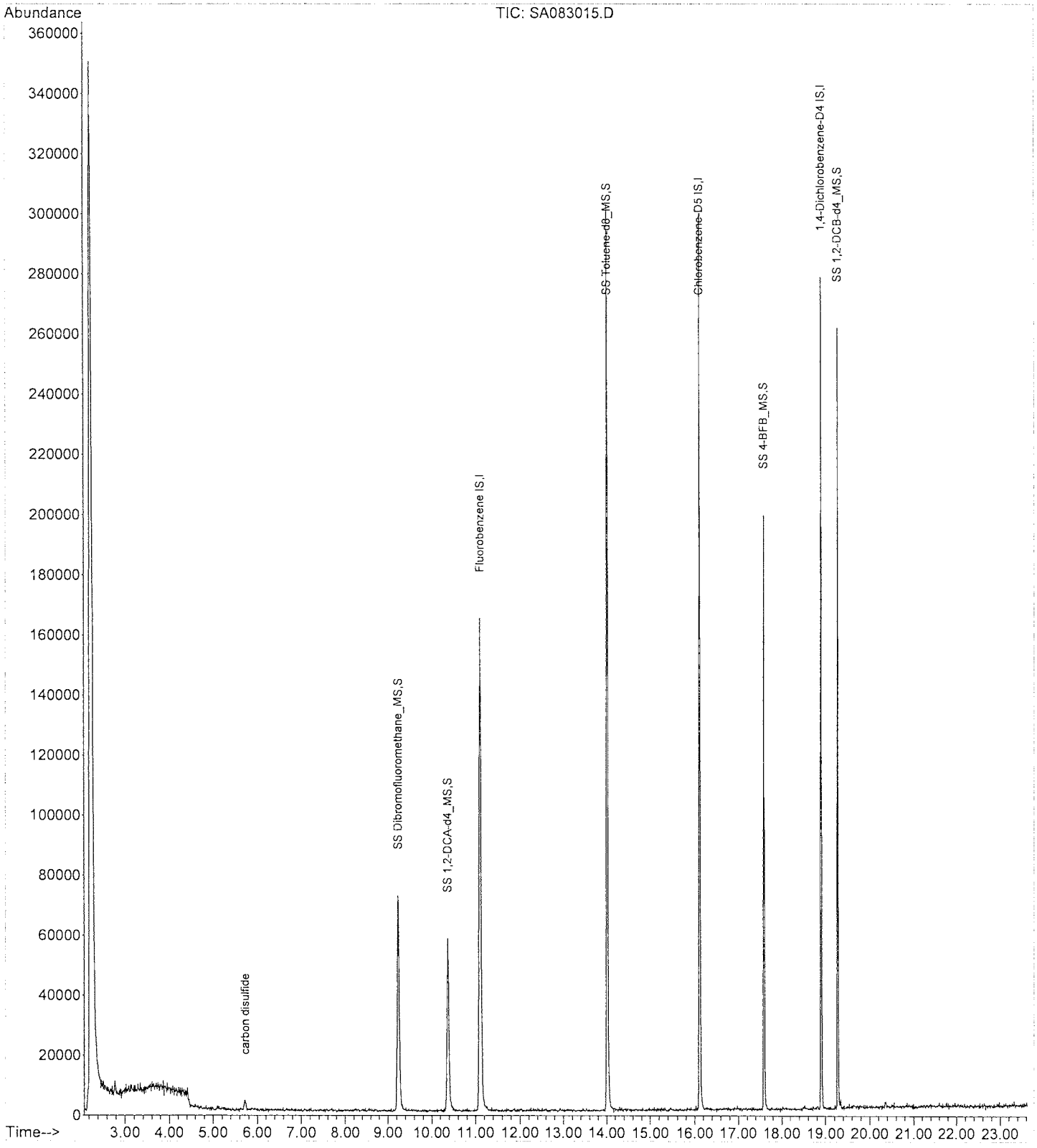
9/11/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083015.D Vial: 15
Acq On : 30 Aug 2012 7:52 pm Operator: KJP/VG
Sample : 113593.13 Inst : VOAMS3
Misc : X1; 5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:45 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083016.D Vial: 16
Acq On : 30 Aug 2012 8:22 pm Operator: KJP/VG
Sample : 113593.02MS Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:49 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

20X1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.109	96	237875	10.000	ug/L		0.00
47) Chlorobenzene-D5 IS	16.114	117	162310	10.000	ug/L		0.00
66) 1,4-Dichlorobenzene-D4 IS	18.899	152	70935	10.000	ug/L		0.00
System Monitoring Compounds							
31) SS Dibromofluoromethane_MS	9.242	111	72389	11.568	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.680%				
35) SS 1,2-DCA-d4_MS	10.373	65	64377	10.903	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.030%				
48) SS Toluene-d8_MS	14.010	98	232709	10.489	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.890%				
65) SS 4-BFB_MS	17.585	95	73224	10.223	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.230%				
83) SS 1,2-DCB-d4_MS	19.276	152	58367	9.834	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.340%				
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L		
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.419	85	201094	18.516	ug/L		97
3) chloromethane	2.710	50	121138	9.225	ug/L		93
4) vinyl chloride	2.844	62	185194	20.683	ug/L		97
5) bromomethane	3.410	94	65257	16.194	ug/L		93
6) chloroethane	3.513	64	124596	23.909	ug/L		94
7) trichlorofluoromethane	3.860	101	416495	27.899	ug/L		97
8) diethyl ether	4.298	59	359874	53.262	ug/L		95
9) 1,1,2-Trichlorotrifluoroet	4.511	101	238985	22.071	ug/L		99
10) acrolein	4.523	56	32293	14.707	ug/L		96
11) acetone	4.638	43	78136	14.889	ug/L		98
12) 1,1-dichloroethene	4.827	96	179864	20.517	ug/L		94
13) tert-Butyl Alcohol(TBA)	4.997	59	100071	98.750	ug/L	#	86
15) methylene chloride	5.702	84	175474	19.093	ug/L		97
16) carbon disulfide	5.715	76	504402	20.643	ug/L		99
17) acrylonitrile	5.964	53	77228	16.691	ug/L		99
18) Methyl-t-butyl ether(MTBE)	6.007	73	413358	20.210	ug/L		97
19) trans-1,2-dichloroethene	6.274	96	182055	19.740	ug/L		98
21) Isopropyl ether(DIPE)	6.919	45	651951	19.753	ug/L		98
22) vinyl acetate	7.162	43	309353	23.431	ug/L		99
23) 1,1-dichloroethane	7.132	63	403839	22.025	ug/L		98
24) Ethyl-t-butyl ether(ETBE)	7.782	59	448442	19.967	ug/L		99
25) 2,2-dichloropropane	8.317	77	273606	22.166	ug/L		98
26) cis-1,2-dichloroethene	8.415	96	188928	19.953	ug/L		96
27) 2-butanone(MEK)	8.050	43	91089	17.257	ug/L		98
28) bromochloromethane	9.114	128	101920	19.906	ug/L		91
29) Tetrahydrofuran(THF)	9.205	42	163480	55.059	ug/L		97
30) chloroform	8.761	83	395954	21.982	ug/L		99
32) 1,1,1-trichloroethane	9.631	97	376800	23.535	ug/L		98
33) carbon tetrachloride	10.191	117	363457	24.819	ug/L		96
34) 1,1-dichloropropene	9.990	75	266268	21.933	ug/L		98
36) tert-amyl methyl ether(TAM	10.282	73	314728	19.460	ug/L	#	88
37) benzene	10.598	78	761788	23.660	ug/L		95
38) 1,2-dichloroethane	10.592	62	349098	22.903	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083016.D Vial: 16
Acq On : 30 Aug 2012 8:22 pm Operator: KJP/VG
Sample : 113593.02MS Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:49 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

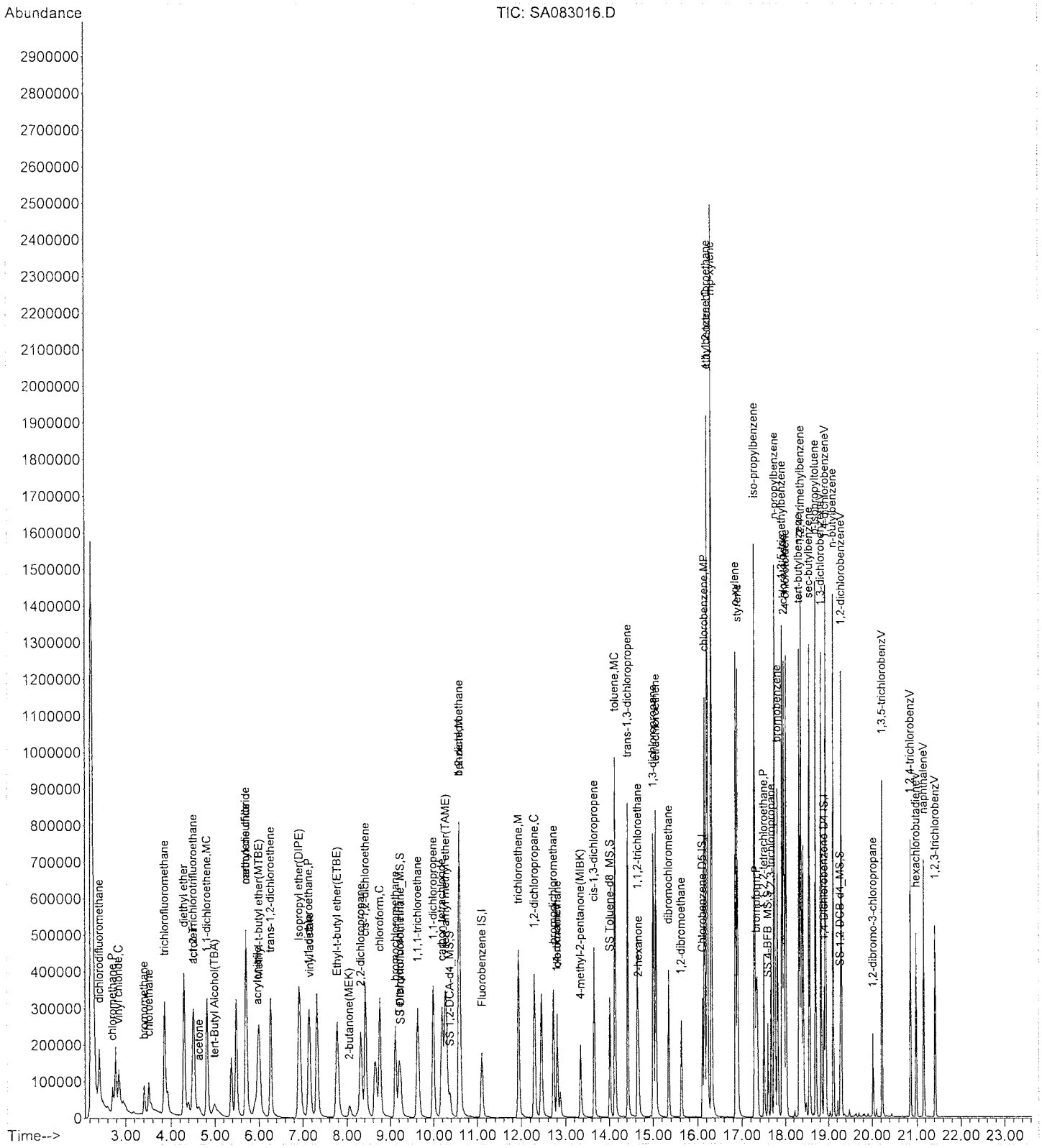
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	11.948	95	206101	20.475	ug/L		99
40)	1,2-dichloropropane	12.295	63	171230	19.144	ug/L		95
41)	1,4-dioxaneV	12.799	88	3407	49.784	ug/L	#	50
42)	dibromomethane	12.812	93	118473	20.862	ug/L		93
43)	bromodichloromethane	12.720	83	273232	21.964	ug/L		97
45)	4-methyl-2-pentanone(MIBK)	13.341	58	58843	18.356	ug/L		90
46)	cis-1,3-dichloropropene	13.651	75	244755	21.271	ug/L		99
49)	toluene	14.131	91	726412	21.653	ug/L		97
50)	trans-1,3-dichloropropene	14.423	75	232757	19.319	ug/L		98
51)	1,1,2-trichloroethane	14.648	83	123855	21.333	ug/L		97
52)	2-hexanone	14.672	43	136794	20.879	ug/L		93
53)	tetrachloroethene	15.068	166	244355	22.926	ug/L		97
54)	1,3-dichloropropane	15.007	76	246091	20.725	ug/L		99
55)	dibromochloromethane	15.354	129	210052	22.561	ug/L		99
56)	1,2-dibromoethane	15.621	107	169250	20.534	ug/L		99
57)	chlorobenzene	16.162	112	558813	22.630	ug/L		99
58)	1,1,1,2-tetrachloroethane	16.217	131	213412	23.667	ug/L		96
59)	ethylbenzene	16.223	91	863947	23.008	ug/L		98
60)	mp-xylene	16.320	106	682624	45.843	ug/L		96
61)	o-xylene	16.856	106	326735	22.872	ug/L		97
62)	styrene	16.904	104	513679	22.778	ug/L		99
63)	bromoform	17.324	173	140639	23.463	ug/L		99
64)	iso-propylbenzene	17.281	105	980787	28.096	ug/L		98
67)	bromobenzene	17.816	156	232138	22.220	ug/L		97
68)	1,1,2,2-tetrachloroethane	17.494	83	188905	21.425	ug/L		99
69)	1,2,3-trichloropropane	17.664	110	71541	23.093	ug/L		96
71)	n-propylbenzene	17.750	91	1039588	25.341	ug/L		99
72)	2-chlorotoluene	17.962	91	639797	23.288	ug/L		99
73)	4-chlorotoluene	18.017	91	652642	23.490	ug/L		99
74)	1,3,5-trimethylbenzene	17.926	105	721005	24.518	ug/L		97
75)	tert-butylbenzene	18.327	119	610931	24.467	ug/L		99
76)	1,2,4-trimethylbenzene	18.370	105	757304	24.948	ug/L		94
77)	sec-butylbenzene	18.564	105	850547	24.800	ug/L		99
78)	1,3-dichlorobenzeneV	18.826	146	434956	23.823	ug/L		98
79)	p-isopropyltoluene	18.698	119	746922	25.402	ug/L		98
80)	1,4-dichlorobenzeneV	18.929	146	493314	26.509	ug/L		98
81)	1,2-dichlorobenzeneV	19.300	146	393007	22.864	ug/L		99
82)	n-butylbenzene	19.112	91	628576	25.013	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.018	75	41552	23.014	ug/L		96
85)	1,3,5-trichlorobenzV	20.231	180	243470	23.645	ug/L		99
86)	1,2,4-trichlorobenzV	20.863	180	209936	22.753	ug/L		96
87)	hexachlorobutadieneV	20.985	225	87470	25.887	ug/L		95
88)	naphthaleneV	21.155	128	473867	19.743	ug/L		98
89)	1,2,3-trichlorobenzV	21.417	180	152193	18.999	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083016.D Vial: 16
Acq On : 30 Aug 2012 8:22 pm Operator: KJP/VG
Sample : 113593.02MS Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:45 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083017.D Vial: 17
Acq On : 30 Aug 2012 8:52 pm Operator: KJP/VG
Sample : 113592.02MSD Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE DUP 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:53 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

D2X1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.107	96	257139	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	173220	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	75977	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.234	111	77633	11.477	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.770%			
35) SS 1,2-DCA-d4_MS	10.371	65	65514	10.264	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.640%			
48) SS Toluene-d8_MS	14.014	98	240338	10.150	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.500%			
65) SS 4-BFB_MS	17.584	95	76220	9.971	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.710%			
83) SS 1,2-DCB-d4_MS	19.275	152	58694	9.233	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.330%			
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.417	85	210887	17.963	ug/L	100
3) chloromethane	2.709	50	224471	15.814	ug/L	99
4) vinyl chloride	2.849	62	162592	16.799	ug/L	98
5) bromomethane	3.408	94	69798	16.023	ug/L	81
6) chloroethane	3.512	64	153056	27.170	ug/L	93
7) trichlorofluoromethane	3.858	101	407802	25.270	ug/L	95
8) diethyl ether	4.296	59	366726	50.210	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	4.503	101	249575	21.323	ug/L	97
10) acrolein	4.521	56	34171	14.396	ug/L	97
11) acetone	4.643	43	82368	14.519	ug/L	94
12) 1,1-dichloroethene	4.819	96	194570	20.532	ug/L	99
13) tert-Butyl Alcohol(TBA)	4.971	59	100429	91.679	ug/L #	86
15) methylene chloride	5.701	84	183980	18.519	ug/L	97
16) carbon disulfide	5.713	76	534863	20.250	ug/L	100
17) acrylonitrile	5.962	53	84089	16.812	ug/L	97
18) Methyl-t-butyl ether(MTBE)	5.999	73	435889	19.715	ug/L	98
19) trans-1,2-dichloroethene	6.267	96	194760	19.535	ug/L	98
21) Isopropyl ether(DIPE)	6.917	45	693552	19.440	ug/L	98
22) vinyl acetate	7.160	43	336779	23.598	ug/L	99
23) 1,1-dichloroethane	7.136	63	419976	21.190	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.775	59	472314	19.454	ug/L	99
25) 2,2-dichloropropane	8.316	77	272352	20.412	ug/L	96
26) cis-1,2-dichloroethene	8.419	96	201063	19.643	ug/L	99
27) 2-butanone(MEK)	8.048	43	98100	17.193	ug/L	99
28) bromochloromethane	9.119	128	103494	18.699	ug/L	90
29) Tetrahydrofuran(THF)	9.198	42	173088	53.927	ug/L	97
30) chloroform	8.760	83	405718	20.837	ug/L	93
32) 1,1,1-trichloroethane	9.630	97	388468	22.446	ug/L	94
33) carbon tetrachloride	10.195	117	367912	23.241	ug/L	96
34) 1,1-dichloropropene	9.988	75	277040	21.111	ug/L	98
36) tert-amyl methyl ether(TAM	10.286	73	327242	18.718	ug/L #	91
37) benzene	10.596	78	792513	22.770	ug/L	96
38) 1,2-dichloroethane	10.590	62	352961	21.422	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA083017.D 3VID0809.M Fri Sep 07 13:45:54 2012

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083017.D Vial: 17
Acq On : 30 Aug 2012 8:52 pm Operator: KJP/VG
Sample : 113592.02MSD Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE DUP 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 13:45:53 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

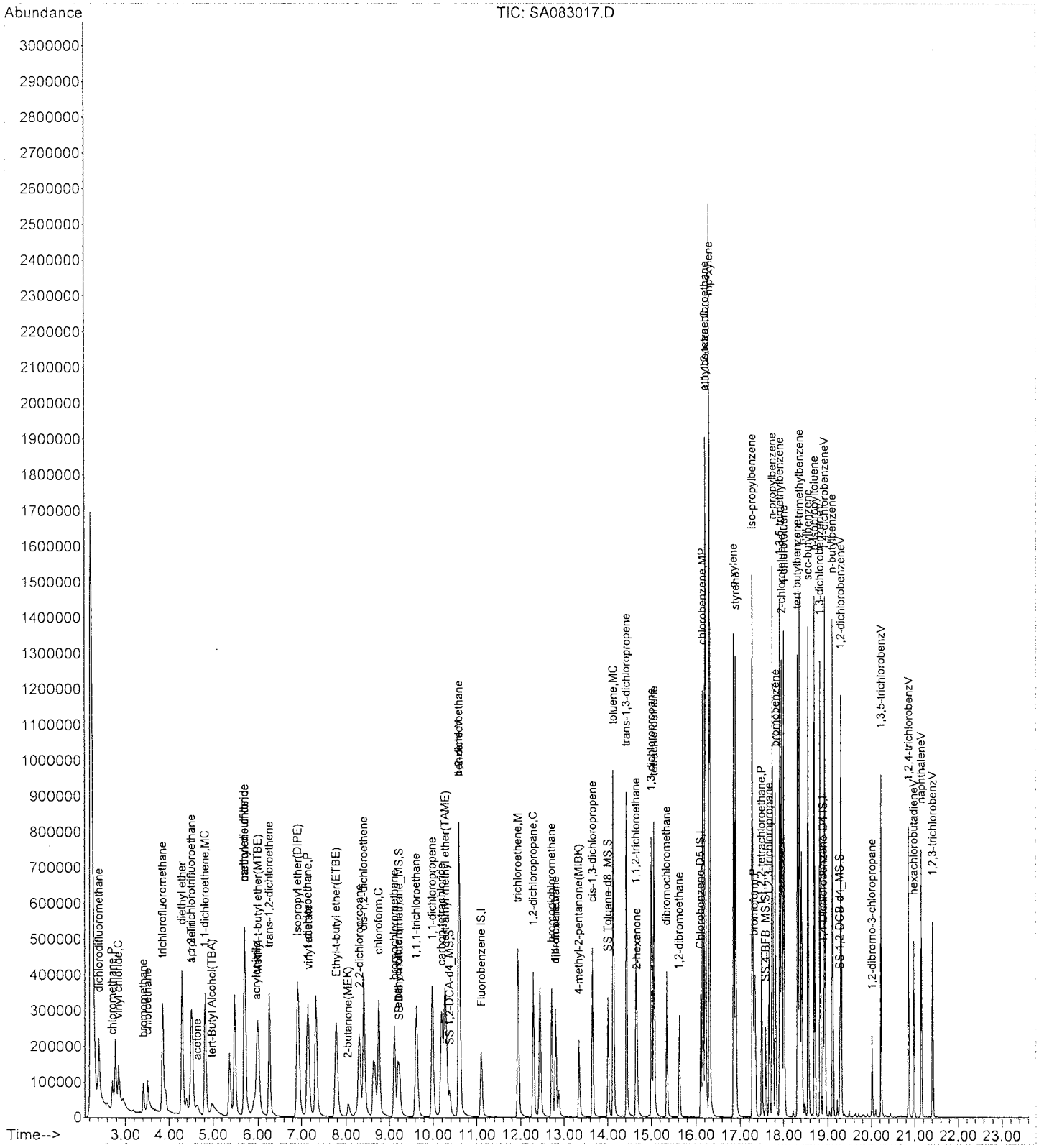
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	11.947	95	213179	19.592 ug/L	96
40)	1,2-dichloropropane	12.299	63	182414	18.866 ug/L	92
41)	1,4-dioxaneV	12.804	88	4460	56.641 ug/L #	69
42)	dibromomethane	12.810	93	127576	20.782 ug/L	94
43)	bromodichloromethane	12.719	83	283141	21.056 ug/L	97
45)	4-methyl-2-pentanone(MIBK)	13.339	58	68688	19.822 ug/L	95
46)	cis-1,3-dichloropropene	13.655	75	254387	20.452 ug/L	93
49)	toluene	14.136	91	748525	20.907 ug/L	99
50)	trans-1,3-dichloropropene	14.428	75	246545	19.172 ug/L	95
51)	1,1,2-trichloroethane	14.647	83	126836	20.471 ug/L	92
52)	2-hexanone	14.671	43	146962	21.018 ug/L	98
53)	tetrachloroethene	15.072	166	254023	22.332 ug/L	98
54)	1,3-dichloropropane	15.005	76	256921	20.275 ug/L	99
55)	dibromochloromethane	15.358	129	219539	22.095 ug/L	100
56)	1,2-dibromoethane	15.626	107	177913	20.225 ug/L	96
57)	chlorobenzene	16.161	112	595816	22.609 ug/L	97
58)	1,1,1,2-tetrachloroethane	16.216	131	212592	22.091 ug/L	97
59)	ethylbenzene	16.228	91	884685	22.076 ug/L	99
60)	mp-xylene	16.319	106	700650	44.090 ug/L	98
61)	o-xylene	16.860	106	342043	22.436 ug/L	94
62)	styrene	16.903	104	540617	22.463 ug/L	99
63)	bromoform	17.322	173	144103	22.527 ug/L	96
64)	iso-propylbenzene	17.286	105	990799	26.595 ug/L	99
67)	bromobenzene	17.821	156	240235	21.469 ug/L	98
68)	1,1,2,2-tetrachloroethane	17.493	83	193835	20.525 ug/L	99
69)	1,2,3-trichloropropane	17.663	110	71702	21.609 ug/L	99
71)	n-propylbenzene	17.748	91	1051106	23.921 ug/L	98
72)	2-chlorotoluene	17.967	91	651030	22.125 ug/L	98
73)	4-chlorotoluene	18.016	91	679584	22.837 ug/L	99
74)	1,3,5-trimethylbenzene	17.924	105	743316	23.599 ug/L	96
75)	tert-butylbenzene	18.332	119	620350	23.195 ug/L	99
76)	1,2,4-trimethylbenzene	18.374	105	772702	23.766 ug/L	97
77)	sec-butylbenzene	18.563	105	871281	23.718 ug/L	99
78)	1,3-dichlorobenzeneV	18.824	146	431222	22.052 ug/L	99
79)	p-isopropyltoluene	18.703	119	770244	24.457 ug/L	99
80)	1,4-dichlorobenzeneV	18.934	146	487351	24.450 ug/L	99
81)	1,2-dichlorobenzeneV	19.305	146	395980	21.508 ug/L	98
82)	n-butylbenzene	19.110	91	638226	23.712 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.016	75	41615	21.519 ug/L	98
85)	1,3,5-trichlorobenzV	20.229	180	244860	22.202 ug/L	99
86)	1,2,4-trichlorobenzV	20.862	180	218548	22.114 ug/L	98
87)	hexachlorobutadieneV	20.983	225	87190	23.929 ug/L	100
88)	naphthaleneV	21.154	128	505556	19.665 ug/L	98
89)	1,2,3-trichlorobenzV	21.415	180	160558	18.713 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083017.D Vial: 17
Acq On : 30 Aug 2012 8:52 pm Operator: KJP/VG
Sample : 113592.02MSD Inst : VOAMS3
Misc : X1; 5mL; MATRIX SPIKE DUP 113593.02 Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 13:45 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083018.D Vial: 18
Acq On : 30 Aug 2012 9:22 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 08:46:55 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.101	96	263855	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.112	117	184219	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.897	152	90524	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.240	111	84419	12.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 121.630%			
35) SS 1,2-DCA-d4_MS	10.371	65	77550	11.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.400%			
48) SS Toluene-d8_MS	14.014	98	251941	10.005	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.050%			
65) SS 4-BFB_MS	17.583	95	87263	10.734	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.340%			
83) SS 1,2-DCB-d4_MS	19.274	152	71712	9.468	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.680%			
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.423	85	221994m	18.428	ug/L	
3) chloromethane	2.708	50	256072m	17.581	ug/L	
4) vinyl chloride	2.848	62	199655m	20.103	ug/L	
5) bromomethane	3.408	94	80569	18.025	ug/L	95
6) chloroethane	3.511	64	119404	20.657	ug/L	90
7) trichlorofluoromethane	3.858	101	392334	23.693	ug/L	96
8) diethyl ether	4.296	59	155336	20.726	ug/L	94
9) 1,1,2-Trichlorotrifluoroet	4.515	101	245148	20.411	ug/L	98
10) acrolein	4.515	56	35402	14.535	ug/L	94
11) acetone	4.624	43	86930	14.933	ug/L	95
12) 1,1-dichloroethene	4.819	96	192135	19.759	ug/L	99
13) tert-Butyl Alcohol(TBA)	4.995	59	97549	86.783	ug/L #	93
15) methylene chloride	5.700	84	194589	19.088	ug/L	98
16) carbon disulfide	5.713	76	522936	19.294	ug/L	100
17) acrylonitrile	5.962	53	90325	17.599	ug/L	96
18) Methyl-t-butyl ether(MTBE)	5.992	73	459200	20.241	ug/L	97
19) trans-1,2-dichloroethene	6.266	96	199341	19.486	ug/L	94
21) Isopropyl ether(DIPE)	6.917	45	729574	19.929	ug/L	100
22) vinyl acetate	7.160	43	353663	24.150	ug/L	100
23) 1,1-dichloroethane	7.136	63	411726	20.245	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	7.774	59	508313	20.404	ug/L	100
25) 2,2-dichloropropane	8.309	77	272864	19.930	ug/L	99
26) cis-1,2-dichloroethene	8.419	96	207856	19.790	ug/L	94
27) 2-butanone(MEK)	8.054	43	109099	18.634	ug/L	99
28) bromochloromethane	9.118	128	109980	19.366	ug/L	92
29) Tetrahydrofuran(THF)	9.209	42	61383	18.638	ug/L	98
30) chloroform	8.759	83	417601	20.901	ug/L	96
32) 1,1,1-trichloroethane	9.635	97	376365	21.194	ug/L	95
33) carbon tetrachloride	10.194	117	357006	21.978	ug/L	97
34) 1,1-dichloropropene	9.994	75	275520	20.461	ug/L	99
36) tert-amyl methyl ether(TAM	10.292	73	346868	19.335	ug/L #	89
37) benzene	10.596	78	691484	19.361	ug/L	100
38) 1,2-dichloroethane	10.590	62	361796	21.399	ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083018.D Vial: 18
Acq On : 30 Aug 2012 9:22 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 08:46:55 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

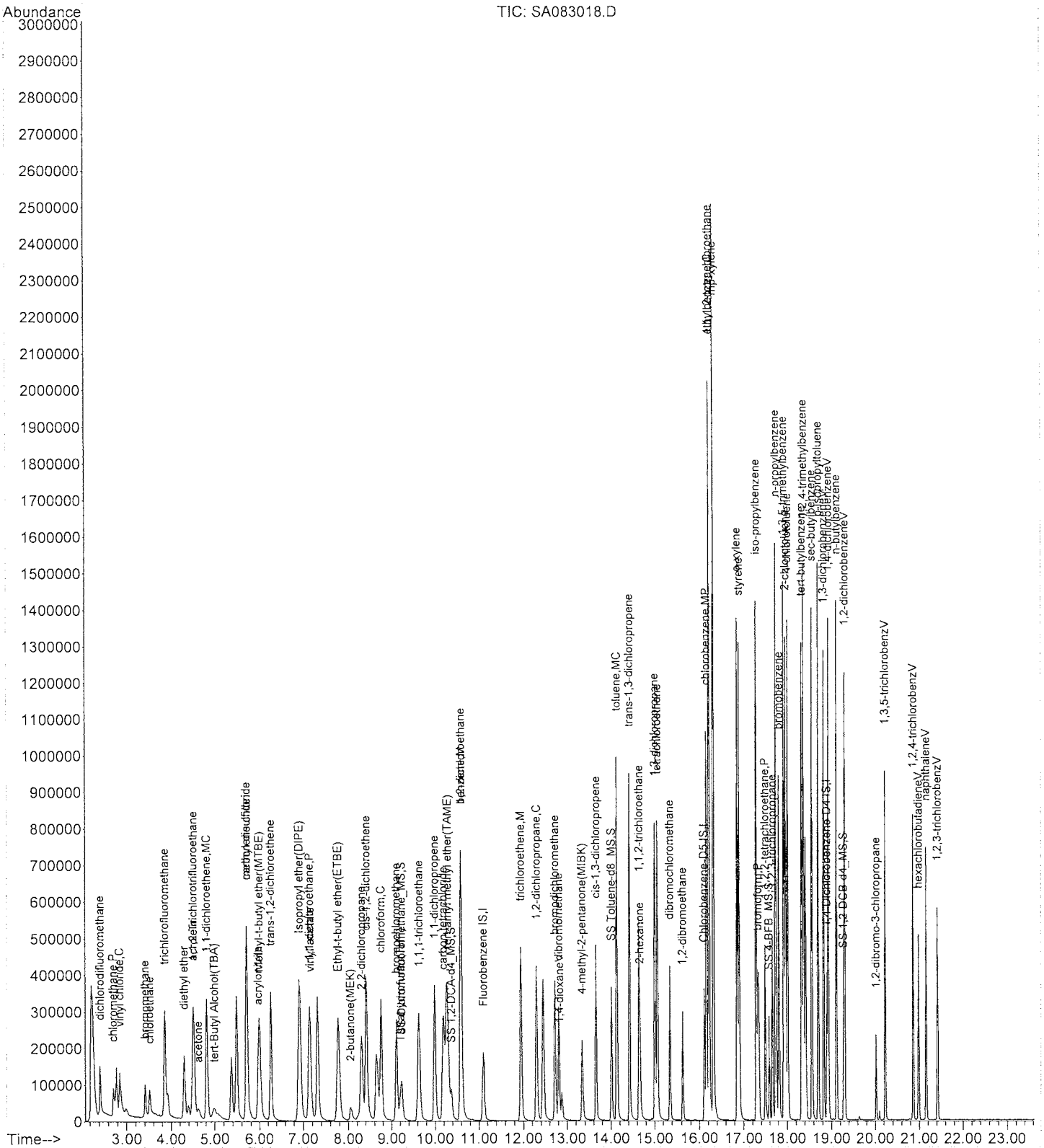
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	trichloroethene	11.946	95	212119	18.998	ug/L	96
40)	1,2-dichloropropane	12.299	63	187413	18.890	ug/L	93
41)	1,4-dioxaneV	12.834	88	1253m	28.063	ug/L	
42)	dibromomethane	12.809	93	135196	21.463	ug/L	97
43)	bromodichloromethane	12.718	83	299335	21.693	ug/L	99
45)	4-methyl-2-pentanone(MIBK)	13.339	58	69087	19.430	ug/L	97
46)	cis-1,3-dichloropropene	13.655	75	267830	20.984	ug/L	97
49)	toluene	14.135	91	758468	19.920	ug/L	98
50)	trans-1,3-dichloropropene	14.427	75	261084	19.090	ug/L	96
51)	1,1,2-trichloroethane	14.646	83	137817	20.915	ug/L	98
52)	2-hexanone	14.670	43	148846	20.017	ug/L	98
53)	tetrachloroethene	15.072	166	248444	20.537	ug/L	94
54)	1,3-dichloropropane	15.005	76	272501	20.220	ug/L	98
55)	dibromochloromethane	15.358	129	230481	21.811	ug/L	99
56)	1,2-dibromoethane	15.625	107	190205	20.332	ug/L	98
57)	chlorobenzene	16.160	112	542027	19.340	ug/L	99
58)	1,1,1,2-tetrachloroethane	16.221	131	226537	22.135	ug/L	93
59)	ethylbenzene	16.227	91	904326	21.219	ug/L	100
60)	mp-xylene	16.318	106	697885	41.294	ug/L	99
61)	o-xylene	16.860	106	342045	21.096	ug/L	97
62)	styrene	16.902	104	548876	21.445	ug/L	95
63)	bromoform	17.322	173	152669	22.441	ug/L	99
64)	iso-propylbenzene	17.285	105	923973	23.320	ug/L	100
67)	bromobenzene	17.820	156	246710	18.505	ug/L	98
68)	1,1,2,2-tetrachloroethane	17.492	83	207919	18.479	ug/L	98
69)	1,2,3-trichloropropane	17.662	110	77443	19.589	ug/L	94
71)	n-propylbenzene	17.747	91	1068389	20.407	ug/L	99
72)	2-chlorotoluene	17.966	91	660673	18.844	ug/L	98
73)	4-chlorotoluene	18.015	91	698425	19.698	ug/L	97
74)	1,3,5-trimethylbenzene	17.924	105	763743	20.351	ug/L	97
75)	tert-butylbenzene	18.331	119	643482	20.194	ug/L	98
76)	1,2,4-trimethylbenzene	18.374	105	794182	20.501	ug/L	98
77)	sec-butylbenzene	18.562	105	878334	20.068	ug/L	98
78)	1,3-dichlorobenzeneV	18.824	146	445607	19.125	ug/L	99
79)	p-isopropyltoluene	18.702	119	797525	21.253	ug/L	99
80)	1,4-dichlorobenzeneV	18.933	146	456061	19.204	ug/L	98
81)	1,2-dichlorobenzeneV	19.304	146	416114	18.970	ug/L	97
82)	n-butylbenzene	19.116	91	650110	20.272	ug/L	95
84)	1,2-dibromo-3-chloropropan	20.016	75	44232	19.197	ug/L	95
85)	1,3,5-trichlorobenzV	20.229	180	247252	18.816	ug/L	95
86)	1,2,4-trichlorobenzV	20.861	180	222573	18.902	ug/L	92
87)	hexachlorobutadieneV	20.983	225	90765	20.610	ug/L	94
88)	naphthaleneV	21.153	128	513542	16.766	ug/L	99
89)	1,2,3-trichlorobenzV	21.415	180	171056	16.733	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083018.D Vial: 18
Acq On : 30 Aug 2012 9:22 pm Operator: KJP/VG
Sample : LCS Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 4 15:18 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083019.D Vial: 19
Acq On : 30 Aug 2012 9:52 pm Operator: KJP/VG
Sample : LCSD Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 08:47:18 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.100	96	270633	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.111	117	181868	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	18.903	152	80695	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	9.239	111	79444	11.159	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.590%			
35) SS 1,2-DCA-d4_MS	10.377	65	69145	10.293	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.930%			
48) SS Toluene-d8_MS	14.013	98	259808	10.451	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.510%			
65) SS 4-BFB_MS	17.583	95	80869	10.076	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.760%			
83) SS 1,2-DCB-d4_MS	19.274	152	62550	9.264	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.640%			
90) SS 2,5-DBT_MS	0.000	250	0	0.000	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.000%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.422	85	218374m	17.673	ug/L	
3) chloromethane	2.708	50	239438m	16.027	ug/L	
4) vinyl chloride	2.848	62	180163m	17.686	ug/L	
5) bromomethane	3.413	94	83988	18.319	ug/L	99
6) chloroethane	3.511	64	120911	20.393	ug/L	90
7) trichlorofluoromethane	3.857	101	383811	22.598	ug/L	95
8) diethyl ether	4.295	59	149710	19.475	ug/L	94
9) 1,1,2-Trichlorotrifluoroet	4.514	101	246653	20.022	ug/L	96
10) acrolein	4.532	56	36242	14.507	ug/L	97
11) acetone	4.642	43	79940	13.389	ug/L	91
12) 1,1-dichloroethene	4.824	96	191507	19.201	ug/L	94
13) tert-Butyl Alcohol(TBA)	4.988	59	104630	90.752	ug/L #	67
15) methylene chloride	5.700	84	193518	18.508	ug/L	97
16) carbon disulfide	5.712	76	525908	18.918	ug/L	99
17) acrylonitrile	5.968	53	92071	17.490	ug/L	97
18) Methyl-t-butyl ether(MTBE)	5.998	73	453567	19.492	ug/L	98
19) trans-1,2-dichloroethene	6.266	96	192930	18.387	ug/L	93
21) Isopropyl ether(DIPE)	6.916	45	709952	18.907	ug/L	99
22) vinyl acetate	7.160	43	357667	23.812	ug/L	99
23) 1,1-dichloroethane	7.135	63	413896	19.842	ug/L	96
24) Ethyl-t-butyl ether(ETBE)	7.780	59	489668	19.163	ug/L	100
25) 2,2-dichloropropane	8.309	77	262648	18.703	ug/L	98
26) cis-1,2-dichloroethene	8.418	96	207762	19.286	ug/L	98
27) 2-butanone(MEK)	8.053	43	103087	17.166	ug/L	93
28) bromochloromethane	9.118	128	113072	19.411	ug/L	90
29) Tetrahydrofuran(THF)	9.209	42	62603	18.532	ug/L	100
30) chloroform	8.759	83	410462	20.030	ug/L	99
32) 1,1,1-trichloroethane	9.635	97	378978	20.806	ug/L	97
33) carbon tetrachloride	10.188	117	358670	21.527	ug/L	98
34) 1,1-dichloropropene	9.987	75	272507	19.730	ug/L	99
36) tert-amyl methyl ether(TAM	10.285	73	347820	18.903	ug/L #	92
37) benzene	10.595	78	682359	18.627	ug/L	99
38) 1,2-dichloroethane	10.595	62	356590	20.563	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083019.D Vial: 19
Acq On : 30 Aug 2012 9:52 pm Operator: KJP/VG
Sample : LCSD Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 08:47:18 2012 Quant Results File: 3VID0809.RES

Quant Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

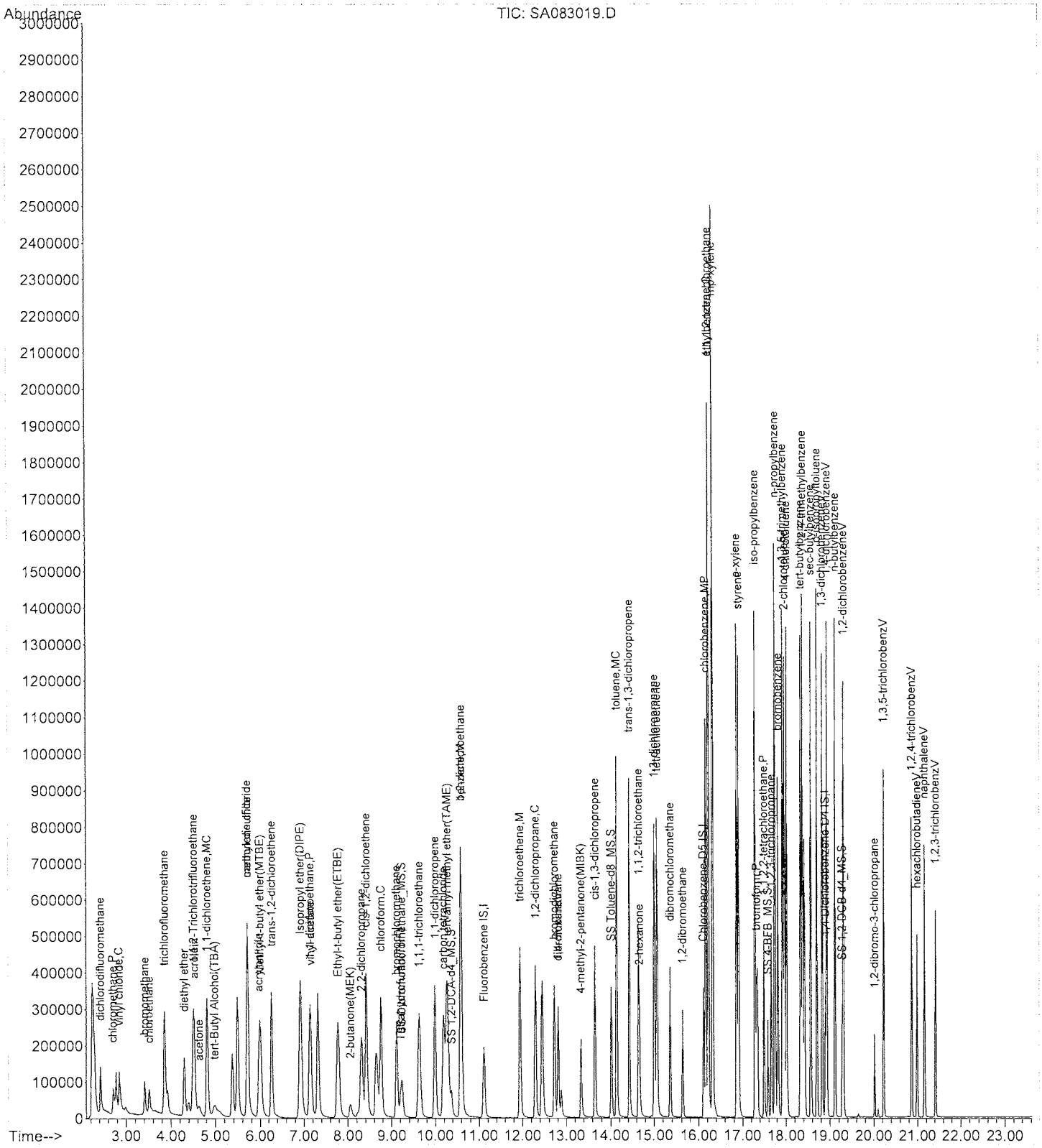
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	11.939	95	209844	18.324 ug/L	98
40)	1,2-dichloropropane	12.298	63	185553	18.234 ug/L	92
41)	1,4-dioxaneV	12.809	88	1169	27.089 ug/L #	53
42)	dibromomethane	12.809	93	129906	20.107 ug/L	95
43)	bromodichloromethane	12.724	83	293554	20.742 ug/L	98
45)	4-methyl-2-pentanone(MIBK)	13.338	58	68394	18.753 ug/L	98
46)	cis-1,3-dichloropropene	13.654	75	260231	19.878 ug/L	100
49)	toluene	14.135	91	749156	19.930 ug/L	99
50)	trans-1,3-dichloropropene	14.427	75	250048	18.509 ug/L	94
51)	1,1,2-trichloroethane	14.646	83	130573	20.072 ug/L	92
52)	2-hexanone	14.670	43	143787	19.586 ug/L	99
53)	tetrachloroethene	15.071	166	253072	21.190 ug/L	99
54)	1,3-dichloropropane	15.004	76	268795	20.203 ug/L	100
55)	dibromochloromethane	15.351	129	228944	21.946 ug/L	99
56)	1,2-dibromoethane	15.625	107	188026	20.358 ug/L	97
57)	chlorobenzene	16.160	112	547658	19.793 ug/L	98
58)	1,1,1,2-tetrachloroethane	16.215	131	215746	21.353 ug/L	97
59)	ethylbenzene	16.227	91	909136	21.608 ug/L	99
60)	mp-xylene	16.318	106	695415	41.680 ug/L	100
61)	o-xylene	16.859	106	341807	21.354 ug/L	97
62)	styrene	16.902	104	533117	21.098 ug/L	98
63)	bromoform	17.321	173	151692	22.585 ug/L	99
64)	iso-propylbenzene	17.285	105	905115	23.140 ug/L	99
67)	bromobenzene	17.820	156	244002	20.531 ug/L	97
68)	1,1,2,2-tetrachloroethane	17.492	83	205191	20.457 ug/L	97
69)	1,2,3-trichloropropane	17.662	110	75224	21.345 ug/L	96
71)	n-propylbenzene	17.747	91	1047181	22.439 ug/L	97
72)	2-chlorotoluene	17.966	91	651949	20.861 ug/L	99
73)	4-chlorotoluene	18.015	91	677765	21.444 ug/L	100
74)	1,3,5-trimethylbenzene	17.923	105	737744	22.053 ug/L	94
75)	tert-butylbenzene	18.331	119	639103	22.499 ug/L	99
76)	1,2,4-trimethylbenzene	18.373	105	756783	21.916 ug/L	98
77)	sec-butylbenzene	18.562	105	857740	21.985 ug/L	97
78)	1,3-dichlorobenzeneV	18.824	146	438132	21.095 ug/L	97
79)	p-isopropyltoluene	18.702	119	754444	22.554 ug/L	98
80)	1,4-dichlorobenzeneV	18.933	146	443850	20.966 ug/L	98
81)	1,2-dichlorobenzeneV	19.304	146	405026	20.713 ug/L	100
82)	n-butylbenzene	19.115	91	631580	22.093 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.015	75	44011	21.427 ug/L	91
85)	1,3,5-trichlorobenzV	20.228	180	244687	20.889 ug/L	97
86)	1,2,4-trichlorobenzV	20.861	180	220759	21.032 ug/L	95
87)	hexachlorobutadieneV	20.982	225	89823	23.139 ug/L	99
88)	naphthaleneV	21.153	128	510608	18.700 ug/L	99
89)	1,2,3-trichlorobenzV	21.414	180	167443	18.374 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : T:\1\DATA\2012\AUG12\AUG3012\SA083019.D Vial: 19
Acq On : 30 Aug 2012 9:52 pm Operator: KJP/VG
Sample : LCSD Inst : VOAMS3
Misc : X1; 5mL; Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 4 15:19 2012 Quant Results File: 3VID0809.RES

Method : T:\1\METHODS\2012\3VID0809.M (RTE Integrator)
Title : VOAMS3
Last Update : Tue Aug 14 08:04:13 2012
Response via : Initial Calibration



VOAMS5 Analysis Run Log

IS/SS ID= V- 3975
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3970 (G) 3963 (L)

Analyst: [signature]

Date: 9/7/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	SA090701	BFB					VOCMS	5V1D0806	Autotune		✓
2		STD2					VOCMS				✓
3		STD20					VOCMS		Acrolein ↓		✓
4		MB					VOCMS				
5		113593.02		✓		X1	VOCMS				
6		Blank					VOCMS				
7		113593.02MS		✓		X1	VOCMS				
8		.02MSD		✓			VOCMS				
9		.03		✓			VOCMS				
10		.06		✓			VOCMS				
11		113690.02		✓			VOCMS				
12		113820.01		✓			VOCMS				
13		113781.01		✓		X10	VOCMS				
14		.02		✓		X1	VOCMS				
15		.03		✓			VOCMS				
16		LCS20					VOCMS				
17		LCSD20					VOCMS				
18							VOCMS				
19							VOCMS				
20							VOCMS				
21							VOCMS				
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							VOCMS				

Samples removed from autosampler, ✓ order ✓ and pH ✓ verified by [signature] 9/10/12 1-17

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\SEPT0712\SA090701.D
Tune Time : 7 Sep 2012 11:04 am

Daily Calibration File : C:\MSDCHEM\1\DATA\SEPT0712\SA090703.D

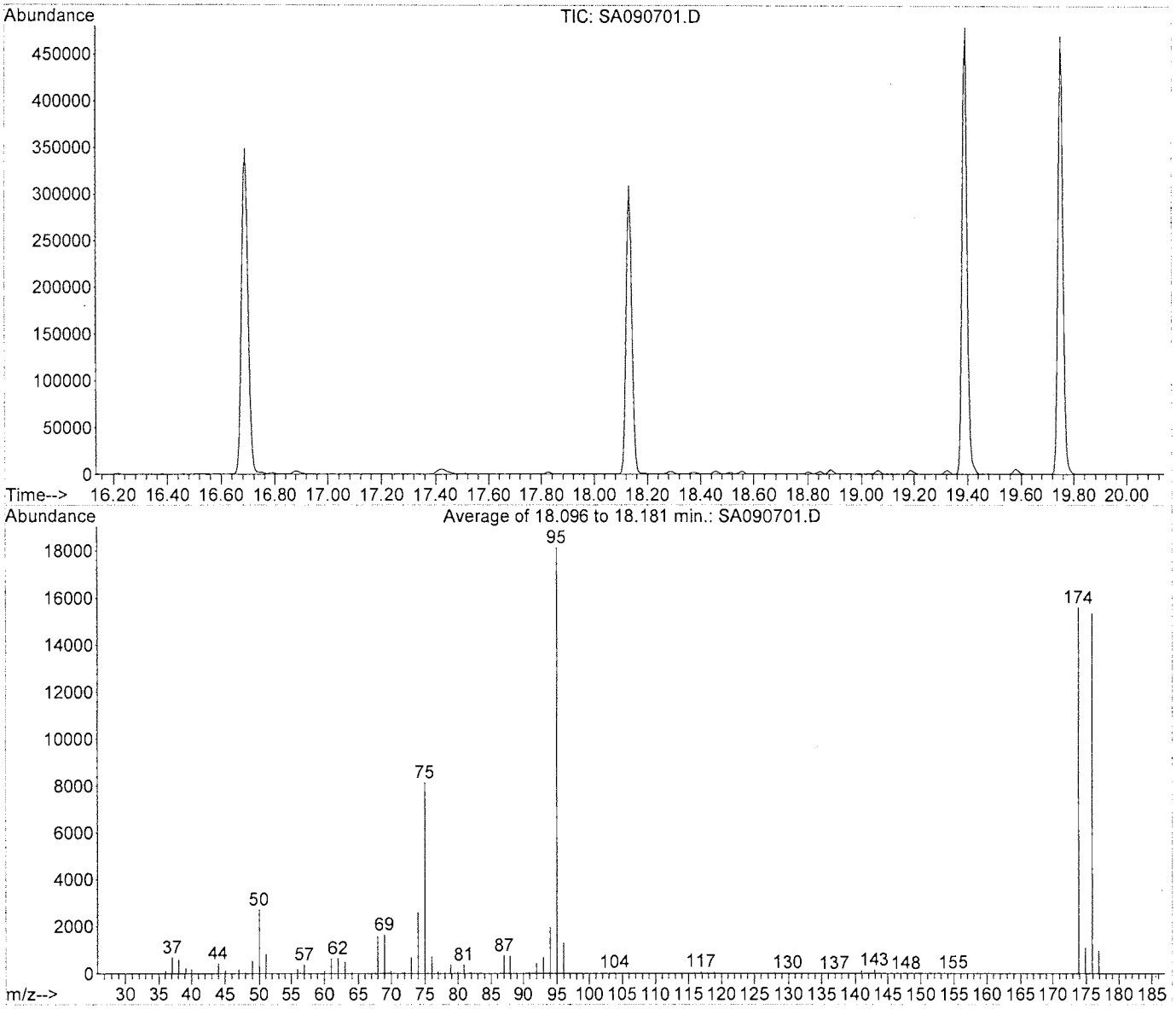
						256550	208003	121824

File	Sample	Surrogate Recovery %				Internal Standard Responses		
SA090702.D	STD 2	103	92	97	99	244058	196388	110146
		100	21*					
SA090703.D	STD 20	107	92	98	100	256550	208003	121824
		99	50*					
SA090704.D	MB	102	91	97	94	257667	205951	109045
		102	20*					
SA090705.D	113593.02	105	91	97	96	256895	202746	108834
		101	0*					
SA090707.D	113593.02 MS	108	92	96	102	260998	213254	125022
		99	0*					
SA090708.D	113593.02 MSD	107	90	97	101	268357	216936	124502
		100	0*					
SA090709.D	113593.03	105	91	97	97	260430	207975	112876
		101	0*					
SA090710.D	113593.06	105	90	97	97	263040	212018	116376
		101	0*					
SA090711.D	113690.02	107	93	97	96	261175	208987	112988
		101	0*					
SA090712.D	113820.01	105	87	98	100	267245	213430	120756
		99	0*					
SA090713.D	113781.01	106	92	97	96	264408	213506	116940
		101	0*					
SA090714.D	113781.02	106	92	97	94	253478	206079	110474
		101	0*					
SA090715.D	113781.03	104	92	97	95	258464	208952	112800
		102	0*					
SA090716.D	LCS 20	105	91	96	101	269294	218975	128261
		99	0*					
SA090717.D	LCSD 20	106	89	97	101	267327	217913	127761
		99	0*					

t - fails 12hr time check * - fails criteria

Created: Tue Sep 11 11:56:44 2012 VOAMS5

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090701.D Vial: 1
Acq On : 7 Sep 2012 11:04 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



Spectrum Information: Average of 18.096 to 18.181 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	2726	PASS
75	95	30	60	45.0	8160	PASS
95	95	100	100	100.0	18135	PASS
96	95	5	9	7.1	1288	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.0	15596	PASS
175	174	5	9	7.1	1104	PASS
176	174	95	101	98.3	15338	PASS
177	176	5	9	6.4	978	PASS

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0712\SA090702.D Vial: 2
Acq On : 7 Sep 2012 11:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 12:51:00 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	244058	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	196388	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	110146	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane MS	10.19	111	56796	10.34 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.44%		
35) SS 1,2-DCA-d4 MS	11.33	65	61172	9.20 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.04%		
48) SS Toluene-d8 MS	14.65	98	245538	9.75 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.45%		
65) SS 4-BFB MS	18.13	95	96828	9.90 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.04%		
83) SS 1,2-DCB-d4 MS	19.75	152	103429	9.96 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.63%		
90) SS 2,5-DBT MS	23.36	250	1670	8.40 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 21.00%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.86	85	13588	1.685 ug/L	98
3) chloromethane	3.20	50	13947	1.867 ug/L	99
4) vinyl chloride	3.34	62	7525	1.906 ug/L	97
5) bromomethane	4.00	94	6371	1.325 ug/L	98
6) chloroethane	4.12	64	8510	1.905 ug/L	97
7) trichlorofluoromethane	4.52	101	19874	1.926 ug/L #	94
8) diethyl ether	5.02	59	10788	2.214 ug/L	100
9) 1,1,2-Trichlorotrifluoroet	5.27	101	17013	2.388 ug/L	98
10) acrolein	0.00	56	0	N.D.	
11) acetone	5.38	43	5152	3.754 ug/L	97
12) 1,1-dichloroethene	5.62	96	14330	2.141 ug/L	97
13) tert-Butyl Alcohol(TBA)	5.77	59	5202	10.318 ug/L #	78
14) Iodomethane	0.00	142	0	N.D.	
15) methylene chloride	6.55	84	18933	2.721 ug/L	98
16) carbon disulfide	6.57	76	42239	2.372 ug/L #	93
17) acrylonitrile	6.81	53	4973	2.241 ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	72112	4.111 ug/L	97
19) trans-1,2-dichloroethene	7.15	96	15255	2.387 ug/L	94
20) hexane	7.29	57	17651	2.147 ug/L #	97
21) Isopropyl ether(DIPE)	7.82	45	39376	2.010 ug/L	97
22) vinyl acetate	8.05	43	16264	1.401 ug/L	100
23) 1,1-dichloroethane	8.04	63	26699	2.366 ug/L	97
24) Ethyl-t-butyl ether(ETBE)	8.70	59	34207	1.878 ug/L #	95
25) 2,2-dichloropropane	9.25	77	17016	1.757 ug/L	95
26) cis-1,2-dichloroethene	9.36	61	19286	2.237 ug/L	96
27) 2-butanone(MEK)	8.97	43	5348	2.261 ug/L #	93
28) bromochloromethane	10.07	128	8460	2.440 ug/L	96
29) Tetrahydrofuran(THF)	10.16	42	3243	2.164 ug/L	96
30) chloroform	9.70	83	27430	2.422 ug/L	98
32) 1,1,1-trichloroethane	10.60	97	20628	2.069 ug/L	99
33) carbon tetrachloride	11.17	117	16760	1.897 ug/L	97
34) 1,1-dichloropropene	10.97	75	20696	2.169 ug/L	91
36) tert-amyl methyl ether(TAM	11.25	73	31404	1.783 ug/L #	92
37) benzene	11.56	78	68832	2.446 ug/L	98
38) 1,2-dichloroethane	11.53	62	19972	2.268 ug/L	99
39) trichloroethene	12.73	95	17917	2.322 ug/L	96
40) 1,2-dichloropropane	13.05	63	15707	2.342 ug/L	97
41) 1,4-dioxaneV	0.00	88	0	N.D.	
42) dibromomethane	13.53	93	9633	2.361 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0712\SA090702.D Vial: 2
Acq On : 7 Sep 2012 11:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 12:51:00 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

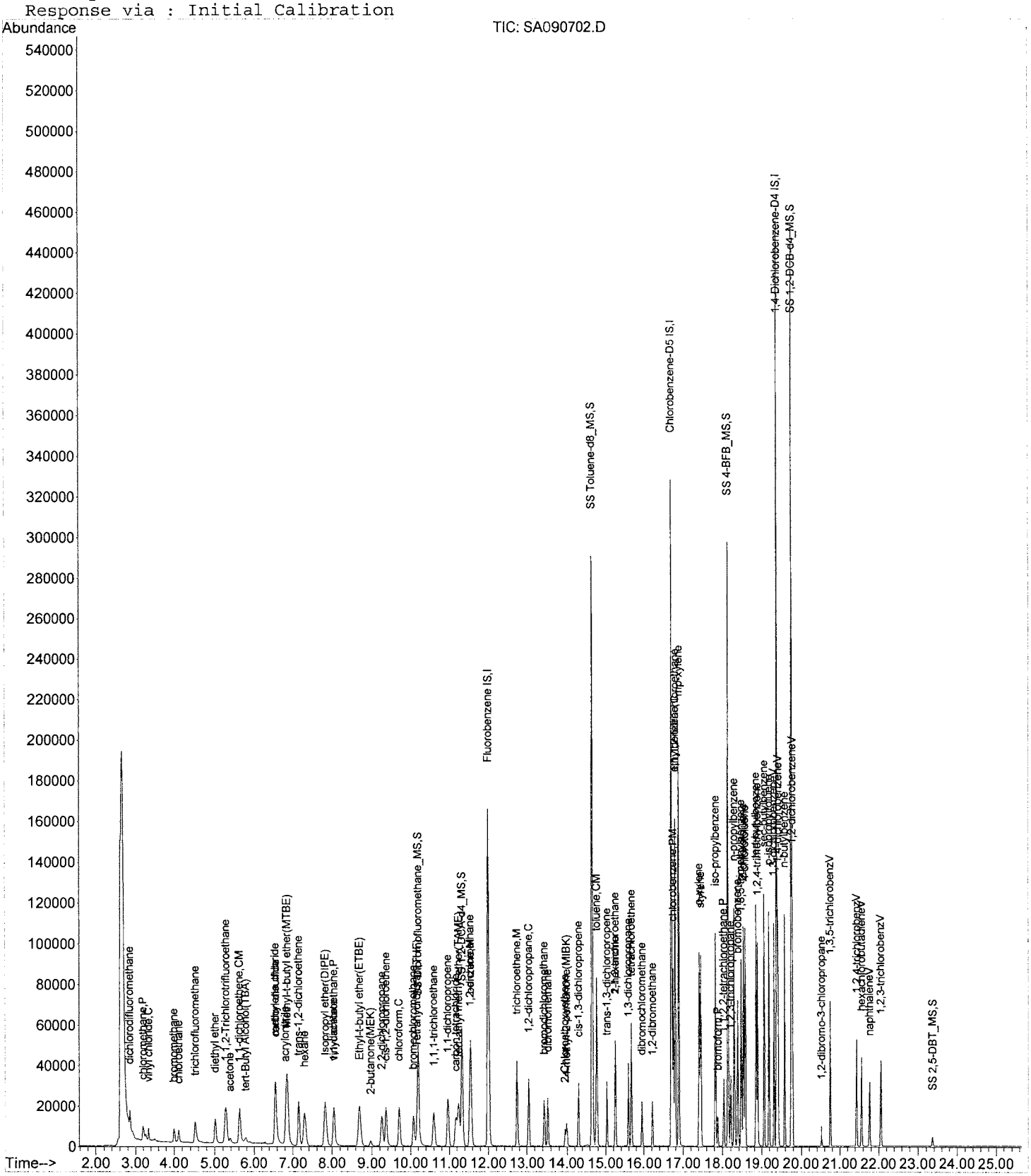
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	bromodichloromethane	13.44	83	17825	2.121 ug/L		98
44)	2-Chloroethoxyethene	13.95	63	4072	1.473 ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.99	58	3710	1.954 ug/L		98
46)	cis-1,3-dichloropropene	14.30	75	19136	1.894 ug/L		94
49)	toluene	14.77	91	74841	2.340 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	16628	1.643 ug/L		95
51)	1,1,2-trichloroethane	15.25	83	11810	2.310 ug/L		97
52)	2-hexanone	15.25	43	6483	1.874 ug/L		98
53)	tetrachloroethene	15.67	166	19945	2.276 ug/L	#	94
54)	1,3-dichloropropane	15.60	76	23959	2.172 ug/L		94
55)	dibromochloromethane	15.95	129	12424	3.779 ug/L	#	99
56)	1,2-dibromoethane	16.22	107	14069	2.177 ug/L	#	99
57)	chlorobenzene	16.74	112	52266	2.318 ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	14606	1.998 ug/L		97
59)	ethylbenzene	16.79	91	82459	2.299 ug/L		100
60)	mp-xylene	16.89	106	67685	4.601 ug/L		99
61)	o-xylene	17.41	106	30477	2.108 ug/L		97
62)	styrene	17.46	104	51294	2.195 ug/L		98
63)	bromoform	17.89	173	6688	4.035 ug/L		95
64)	iso-propylbenzene	17.83	105	72351	2.132 ug/L		99
67)	bromobenzene	18.38	156	21849	2.219 ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	16059	2.344 ug/L	#	1
69)	1,2,3-trichloropropane	18.20	110	5388	2.211 ug/L		97
70)	trans-1,4-dichloro-2-buten	18.20	75	13965	No Calib	#	
71)	n-propylbenzene	18.28	91	93114	2.182 ug/L		100
72)	2-chlorotoluene	18.51	91	59650	2.221 ug/L		99
73)	4-chlorotoluene	18.56	91	58374	2.177 ug/L		99
74)	1,3,5-trimethylbenzene	18.45	105	53256	1.906 ug/L		100
75)	tert-butylbenzene	18.84	119	57376	2.078 ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	53374	1.939 ug/L		99
77)	sec-butylbenzene	19.06	105	80646	2.137 ug/L		100
78)	1,3-dichlorobenzeneV	19.32	146	41415	2.270 ug/L		96
79)	p-isopropyltoluene	19.19	119	64632	2.016 ug/L		99
80)	1,4-dichlorobenzeneV	19.42	146	42681	2.352 ug/L	#	93
81)	1,2-dichlorobenzeneV	19.78	146	39323	2.319 ug/L	#	91
82)	n-butylbenzene	19.58	91	52551	1.982 ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	2537	1.978 ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	22504	2.142 ug/L		97
86)	1,2,4-trichlorobenzV	21.44	180	17528	1.974 ug/L		96
87)	hexachlorobutadieneV	21.56	225	9247	2.281 ug/L		96
88)	naphthaleneV	21.76	128	28737	1.386 ug/L		99
89)	1,2,3-trichlorobenzV	22.06	180	15429	2.003 ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0712\SA090702.D Vial: 2
Acq On : 7 Sep 2012 11:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 12:51 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090703.D Vial: 3
Acq On : 7 Sep 2012 12:12 pm Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	79	0.00
2		dichlorodifluoromethane	20.000	16.478	17.6	68	0.00
3	P	chloromethane	20.000	17.157	14.2	72	0.00
4	C	vinyl chloride	20.000	16.614	16.9	74	0.01
5		bromomethane	20.000	16.801	16.0	70	0.02
6		chloroethane	20.000	18.931	5.3	78	0.02
7		trichlorofluoromethane	20.000	18.428	7.9	76	0.01
8		diethyl ether	20.000	18.836	5.8	76	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.773	1.1	80	0.01
10		acrolein	20.000	5.324	73.4#	39	0.00
11		acetone	20.000	22.700	-13.5	93	-0.02
12	CM	1,1-dichloroethene	20.000	18.406	8.0	78	0.01
13		tert-Butyl Alcohol(TBA)	100.000	82.148	17.9	67	0.00
14		Iodomethane	20.000	0.000	100.0#	0	0.02
15		methylene chloride	20.000	20.245	-1.2	83	0.00
16		carbon disulfide	20.000	18.063	9.7	76	0.01
17		acrylonitrile	20.000	18.700	6.5	76	-0.01
18		Methyl-t-butyl ether(MTBE)	40.000	35.169	12.1	73	-0.01
19		trans-1,2-dichloroethene	20.000	20.673	-3.4	86	0.00
20		hexane	20.000	19.367	3.2	81	0.02
21		Isopropyl ether(DIPE)	20.000	18.373	8.1	76	-0.01
22		vinyl acetate	20.000	16.957	15.2	78	0.00
23	P	1,1-dichloroethane	20.000	20.094	-0.5	82	0.00
24		Ethyl-t-butyl ether(ETBE)	20.000	17.671	11.6	73	0.00
25		2,2-dichloropropane	20.000	16.370	18.1	68	0.00
26		cis-1,2-dichloroethene	20.000	19.590	2.1	80	0.00
27		2-butanone(MEK)	20.000	18.181	9.1	79	-0.02
28		bromochloromethane	20.000	21.363	-6.8	88	0.00
29		Tetrahydrofuran(THF)	20.000	17.718	11.4	74	-0.01
30	C	chloroform	20.000	20.188	-0.9	83	0.00
31	S	SS Dibromofluoromethane_MS	10.000	10.689	-6.9	83	0.00
32		1,1,1-trichloroethane	20.000	18.402	8.0	76	0.00
33		carbon tetrachloride	20.000	18.406	8.0	75	0.00
34		1,1-dichloropropene	20.000	19.804	1.0	82	0.00
35	S	SS 1,2-DCA-d4_MS	10.000	9.238	7.6	73	0.00
36		tert-amyl methyl ether(TAME	20.000	17.548	12.3	74	-0.01
37	M	benzene	20.000	21.068	-5.3	88	0.00
38		1,2-dichloroethane	20.000	18.794	6.0	76	-0.01
39	M	trichloroethene	20.000	20.127	-0.6	84	0.00
40	C	1,2-dichloropropane	20.000	20.592	-3.0	86	0.00
41		1,4-dioxaneV	40.000	44.636	-11.6	90	-0.02
42		dibromomethane	20.000	20.398	-2.0	84	0.00
43		bromodichloromethane	20.000	19.766	1.2	82	0.00
44		2-Chloroethoxyethene	20.000	20.131	-0.7	82	0.00
45		4-methyl-2-pentanone(MIBK)	20.000	19.649	1.8	81	-0.02
46		cis-1,3-dichloropropene	20.000	19.511	2.4	80	0.00
47	I	Chlorobenzene-D5 IS	10.000	10.000	0.0	86	0.00
48	S	SS Toluene-d8_MS	10.000	9.765	2.3	83	0.00
49	CM	toluene	20.000	19.686	1.6	88	-0.01
50		trans-1,3-dichloropropene	20.000	17.605	12.0	77	0.00
51		1,1,2-trichloroethane	20.000	19.778	1.1	89	0.00
52		2-hexanone	20.000	16.984	15.1	76	-0.02
53		tetrachloroethene	20.000	19.277	3.6	89	0.00
54		1,3-dichloropropane	20.000	18.999	5.0	87	-0.01
55		dibromochloromethane	20.000	18.146	9.3	86	-0.01
56		1,2-dibromoethane	20.000	19.503	2.5	87	0.00

57	PM	chlorobenzene	20.000	19.944	0.3	89	0.00
58		1,1,1,2-tetrachloroethane	20.000	19.997	0.0	84	0.00
59	C	ethylbenzene	20.000	20.301	-1.5	86	-0.01
60		mp-xylene	40.000	41.012	-2.5	87	-0.01
61		o-xylene	20.000	19.884	0.6	88	-0.01
62		styrene	20.000	19.894	0.5	87	-0.01
63	P	bromoform	20.000	17.939	10.3	88	-0.01
64		iso-propylbenzene	20.000	20.037	-0.2	87	0.00
65	S	SS 4-BFB_MS	10.000	10.005	-0.1	85	0.00
66	I	1,4-Dichlorobenzene-D4 IS	10.000	10.000	0.0	91	0.00
67		bromobenzene	20.000	19.026	4.9	91	0.00
68	P	1,1,2,2-tetrachloroethane	20.000	19.575	2.1	93	-0.01
69		1,2,3-trichloropropane	20.000	18.189	9.1	87	-0.01
70		trans-1,4-dichloro-2-butene	20.000	0.000	100.0#	0	0.00
71		n-propylbenzene	20.000	18.920	5.4	86	-0.01
72		2-chlorotoluene	20.000	18.420	7.9	86	-0.01
73		4-chlorotoluene	20.000	18.564	7.2	86	-0.01
74		1,3,5-trimethylbenzene	20.000	18.258	8.7	83	-0.02
75		tert-butylbenzene	20.000	18.862	5.7	87	-0.01
76		1,2,4-trimethylbenzene	20.000	18.201	9.0	83	-0.01
77		sec-butylbenzene	20.000	19.336	3.3	87	0.00
78		1,3-dichlorobenzeneV	20.000	19.408	3.0	91	0.09
79		p-isopropyltoluene	20.000	19.770	1.2	87	0.00
80		1,4-dichlorobenzeneV	20.000	19.511	2.4	91	-0.01
81		1,2-dichlorobenzeneV	20.000	19.531	2.3	92	-0.01
82		n-butylbenzene	20.000	19.564	2.2	87	0.00
83	S	SS 1,2-DCB-d4_MS	10.000	9.875	1.3	90	0.00
84		1,2-dibromo-3-chloropropane	20.000	20.424	-2.1	89	0.00
85		1,3,5-trichlorobenzV	20.000	19.232	3.8	91	0.00
86		1,2,4-trichlorobenzV	20.000	19.059	4.7	90	-0.01
87		hexachlorobutadieneV	20.000	19.398	3.0	94	-0.01
88		naphthaleneV	20.000	18.825	5.9	87	-0.01
89		1,2,3-trichlorobenzV	20.000	19.131	4.3	90	-0.01
90	S	SS 2,5-DBT_MS	20.000	19.889	0.6	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA080609.D 5VID0806.M Tue Sep 11 13:31:16 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090703.D Vial: 3
Acq On : 7 Sep 2012 12:12 pm Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 12:51:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	256550	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	208003	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	121824	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	61694	10.69	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.89%			
35) SS 1,2-DCA-d4_MS	11.33	65	64543	9.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.38%			
48) SS Toluene-d8_MS	14.66	98	260584	9.76	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.65%			
65) SS 4-BFB_MS	18.13	95	103601	10.01	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.05%			
83) SS 1,2-DCB-d4_MS	19.75	152	113381	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.75%			
90) SS 2,5-DBT_MS	23.36	250	37977	19.89	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 49.72%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	139669	16.478	ug/L	99
3) chloromethane	3.19	50	134746	17.157	ug/L	100
4) vinyl chloride	3.34	62	68946	16.614	ug/L	99
5) bromomethane	3.99	94	84920	16.801	ug/L	99
6) chloroethane	4.11	64	88913	18.931	ug/L	99
7) trichlorofluoromethane	4.52	101	199917	18.428	ug/L	98
8) diethyl ether	5.02	59	96493	18.836	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	148098	19.773	ug/L	99
10) acrolein	5.27	56	1996	5.324	ug/L	92
11) acetone	5.38	43	32748	22.700	ug/L	99
12) 1,1-dichloroethene	5.61	96	129519	18.406	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.77	59	43534	82.148	ug/L #	87
15) methylene chloride	6.55	84	148055	20.245	ug/L	97
16) carbon disulfide	6.57	76	338108	18.063	ug/L	99
17) acrylonitrile	6.82	53	43614	18.700	ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	648481	35.169	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	138861	20.673	ug/L	94
20) hexane	7.29	57	167340	19.367	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	378312	18.373	ug/L	99
22) vinyl acetate	8.05	43	206914	16.957	ug/L	98
23) 1,1-dichloroethane	8.05	63	238407	20.094	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.70	59	338334	17.671	ug/L	97
25) 2,2-dichloropropane	9.25	77	166643	16.370	ug/L	98
26) cis-1,2-dichloroethene	9.36	61	177514	19.590	ug/L	94
27) 2-butanone(MEK)	8.96	43	45211	18.181	ug/L	96
28) bromochloromethane	10.08	128	77877	21.363	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	27911	17.718	ug/L	95
30) chloroform	9.71	83	240340	20.188	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	192844	18.402	ug/L	99
33) carbon tetrachloride	11.17	117	170908	18.406	ug/L	97
34) 1,1-dichloropropene	10.97	75	198596	19.804	ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	324917	17.548	ug/L #	94
37) benzene	11.56	78	623181	21.068	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090703.D Vial: 3
Acq On : 7 Sep 2012 12:12 pm Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 12:51:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

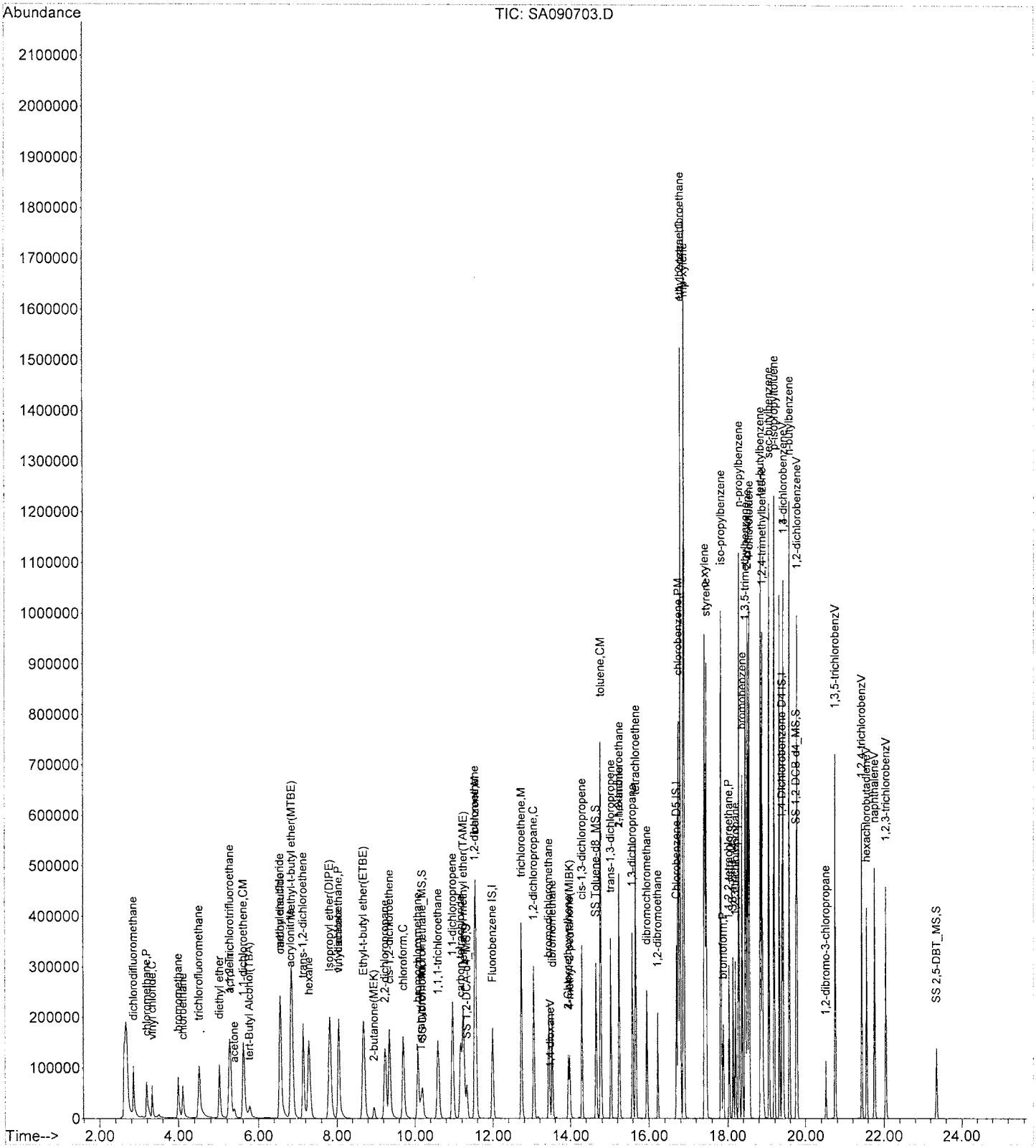
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	173996	18.794	ug/L		99
39)	trichloroethene	12.73	95	163269	20.127	ug/L		96
40)	1,2-dichloropropane	13.05	63	145149	20.592	ug/L		95
41)	1,4-dioxaneV	13.48	88	2905	44.636	ug/L	#	81
42)	dibromomethane	13.53	93	87488	20.398	ug/L		95
43)	bromodichloromethane	13.44	83	174617	19.766	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	58487	20.131	ug/L		93
45)	4-methyl-2-pentanone(MIBK)	13.98	58	39208	19.649	ug/L		95
46)	cis-1,3-dichloropropene	14.30	75	207182	19.511	ug/L		92
49)	toluene	14.77	91	666990	19.686	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	188732	17.605	ug/L		92
51)	1,1,2-trichloroethane	15.25	83	107097	19.778	ug/L		96
52)	2-hexanone	15.25	43	62221	16.984	ug/L		97
53)	tetrachloroethene	15.67	166	178900	19.277	ug/L	#	94
54)	1,3-dichloropropane	15.59	76	221960	18.999	ug/L		90
55)	dibromochloromethane	15.95	129	138553	18.146	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	133507	19.503	ug/L	#	100
57)	chlorobenzene	16.74	112	476383	19.944	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	154865	19.997	ug/L		99
59)	ethylbenzene	16.79	91	771269	20.301	ug/L		99
60)	mp-xylene	16.89	106	639038	41.012	ug/L		97
61)	o-xylene	17.41	106	304453	19.884	ug/L		97
62)	styrene	17.46	104	492491	19.894	ug/L		97
63)	bromoform	17.88	173	82389	17.939	ug/L	#	94
64)	iso-propylbenzene	17.83	105	720090	20.037	ug/L		98
67)	bromobenzene	18.38	156	207205	19.026	ug/L		94
68)	1,1,2,2-tetrachloroethane	18.03	83	148296	19.575	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	49023	18.189	ug/L		98
71)	n-propylbenzene	18.28	91	892916	18.920	ug/L		99
72)	2-chlorotoluene	18.51	91	547073	18.420	ug/L		98
73)	4-chlorotoluene	18.56	91	550485	18.564	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	564176	18.258	ug/L		98
75)	tert-butylbenzene	18.84	119	576144	18.862	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	554126	18.201	ug/L		98
77)	sec-butylbenzene	19.06	105	807213	19.336	ug/L		99
78)	1,3-dichlorobenzeneV	19.42	146	391680	19.408	ug/L		97
79)	p-isopropyltoluene	19.19	119	701188	19.770	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	391678	19.511	ug/L	#	95
81)	1,2-dichlorobenzeneV	19.77	146	366231	19.531	ug/L	#	95
82)	n-butylbenzene	19.58	91	573625	19.564	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	28981	20.424	ug/L		93
85)	1,3,5-trichlorobenzV	20.75	180	223458	19.232	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	187163	19.059	ug/L		95
87)	hexachlorobutadieneV	21.56	225	86957	19.398	ug/L		96
88)	naphthaleneV	21.76	128	431836	18.825	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	162972	19.131	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090703.D Vial: 3
Acq On : 7 Sep 2012 12:12 pm Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 12:51 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090704.D Vial: 4
Acq On : 7 Sep 2012 12:46 pm Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:04 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

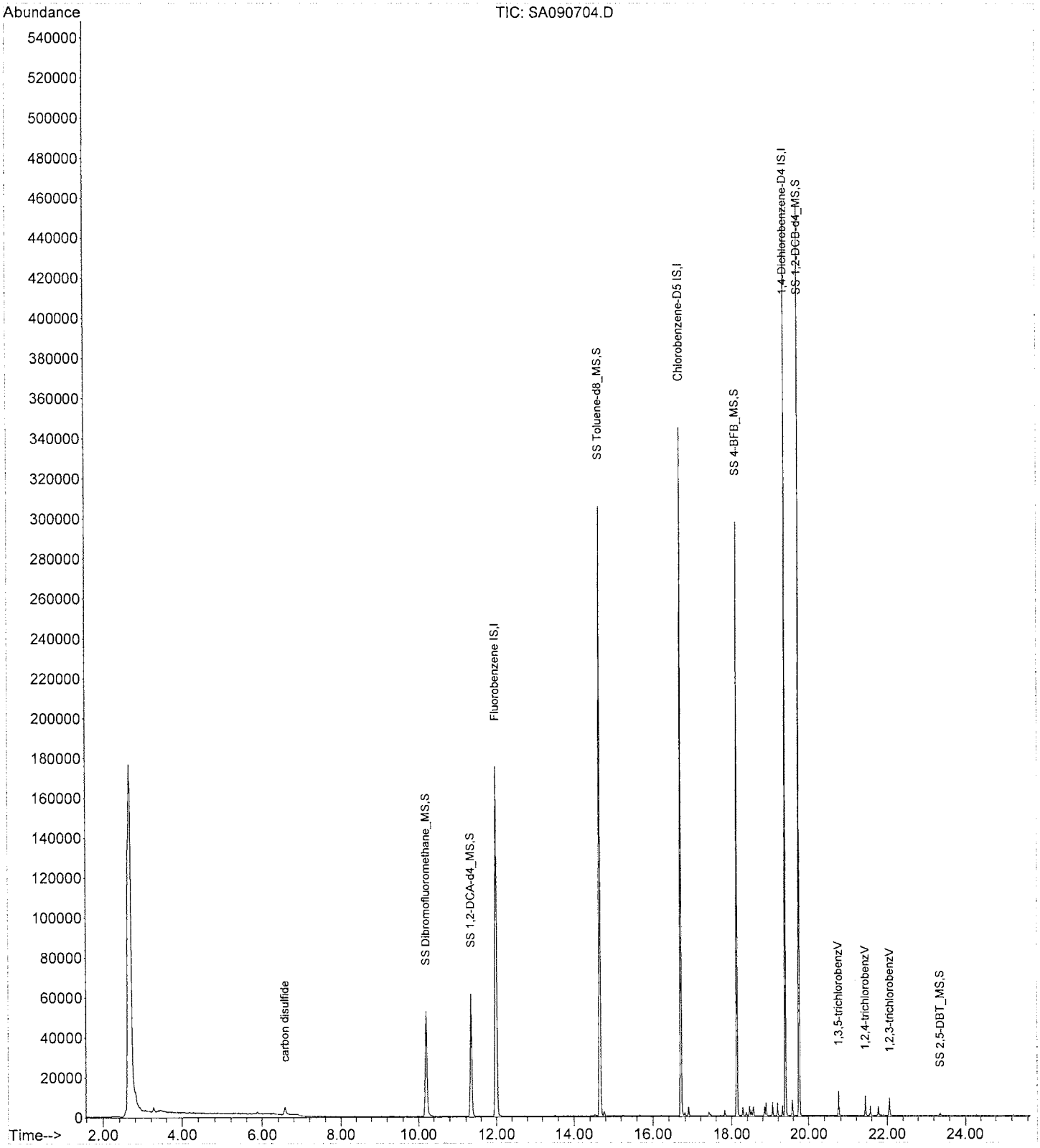
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	257667	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	205951	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	109045	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	59313	10.23	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.32%			
35) SS 1,2-DCA-d4_MS	11.33	65	64097	9.13	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.34%			
48) SS Toluene-d8_MS	14.65	98	256538	9.71	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.09%			
65) SS 4-BFB_MS	18.13	95	96288	9.39	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.92%			
83) SS 1,2-DCB-d4_MS	19.75	152	104655	10.18	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.83%			
90) SS 2,5-DBT_MS	23.36	250	326	7.93	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 19.83%#			
Target Compounds						Qvalue
16) carbon disulfide	6.57	76	7796	0.415	ug/L #	75
85) 1,3,5-trichlorobenzV	20.75	180	4076	0.392	ug/L	97
86) 1,2,4-trichlorobenzV	21.44	180	3909	0.445	ug/L	93
89) 1,2,3-trichlorobenzV	22.06	180	3655	0.479	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090704.D Vial: 4
Acq On : 7 Sep 2012 12:46 pm Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090705.D Vial: 5
Acq On : 7 Sep 2012 1:20 pm Operator: BAM
Sample : 113593.02 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:33 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	256895	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	202746	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	108834	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	60665	10.50	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.97%			
35) SS 1,2-DCA-d4_MS	11.33	65	63350	9.06	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.55%			
48) SS Toluene-d8_MS	14.65	98	253132	9.73	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.31%			
65) SS 4-BFB_MS	18.13	95	97219	9.63	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.32%			
83) SS 1,2-DCB-d4_MS	19.75	152	103608	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.01%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.12	64	26409	5.615	ug/L	98
8) diethyl ether	5.02	59	136754	26.659	ug/L	99
11) acetone	5.38	43	1401	0.970	ug/L #	61
13) tert-Butyl Alcohol(TBA)	5.76	59	5963	11.237	ug/L #	79
16) carbon disulfide	6.57	76	7424	0.396	ug/L #	69
23) 1,1-dichloroethane	8.05	63	5745	0.484	ug/L #	90
29) Tetrahydrofuran(THF)	10.14	42	47186	29.914	ug/L	97
37) benzene	11.56	78	99469	3.358	ug/L #	97
38) 1,2-dichloroethane	11.53	62	4029	0.435	ug/L	95
41) 1,4-dioxaneV	13.48	88	2609	40.034	ug/L	95
52) 2-hexanone	15.13	43	1641	0.460	ug/L #	36
57) chlorobenzene	16.74	112	44738	1.922	ug/L	96
64) iso-propylbenzene	17.83	105	51528	1.471	ug/L	99
78) 1,3-dichlorobenzeneV	~~19.42~~	146	39971	~~2.217~~	ug/L	97
80) 1,4-dichlorobenzeneV	19.42	146	39971	2.229	ug/L #	93
88) naphthaleneV	21.76	128	6675	0.326	ug/L	98

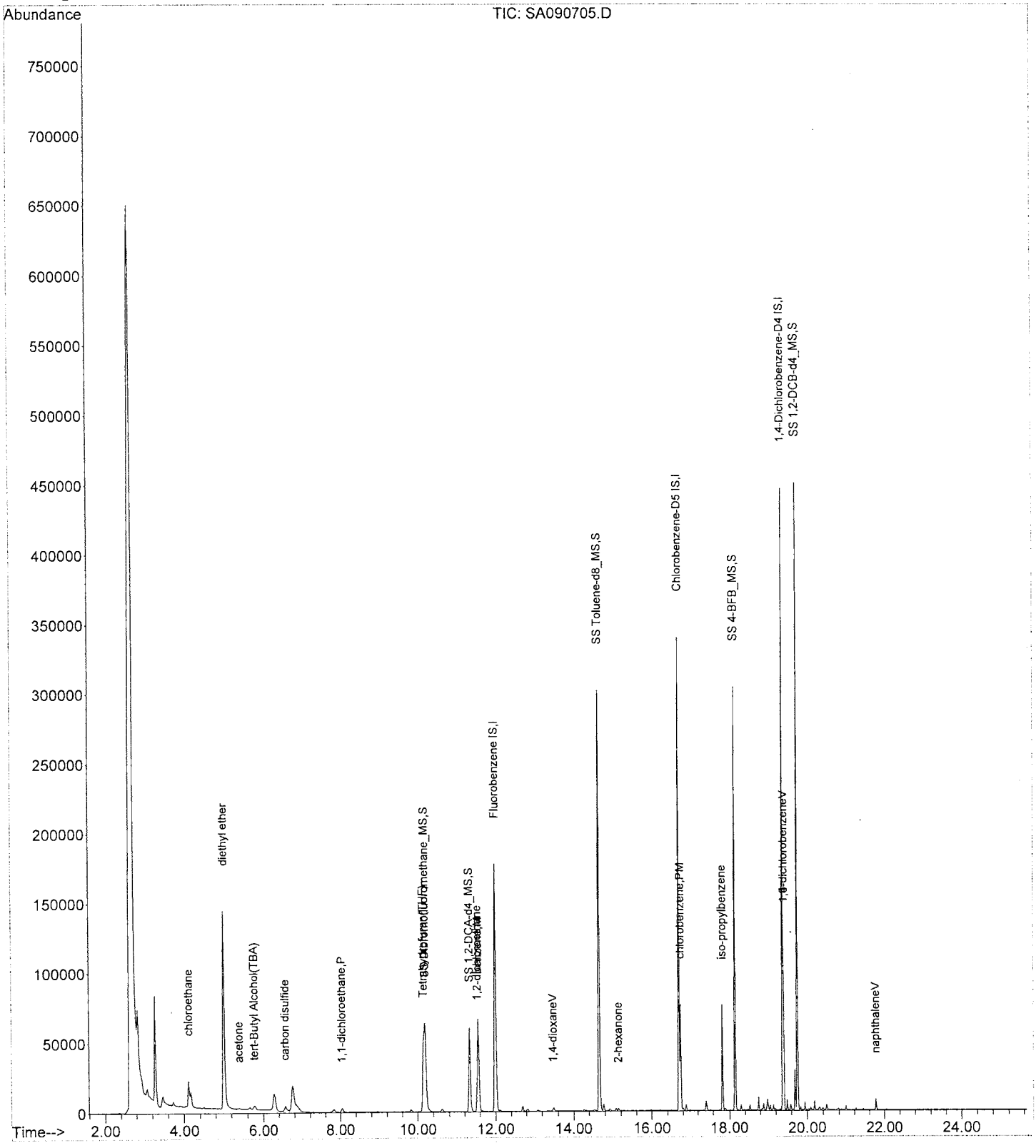
9/11/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090705.D Vial: 5
Acq On : 7 Sep 2012 1:20 pm Operator: BAM
Sample : 113593.02 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090707.D Vial: 7
Acq On : 7 Sep 2012 2:28 pm Operator: BAM
Sample : 113593.02 MS Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:40 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	260998	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	213254	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	125022	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	63252	10.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 107.73%			
35) SS 1,2-DCA-d4_MS	11.33	65	65365	9.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.96%			
48) SS Toluene-d8_MS	14.65	98	263738	9.64	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.40%			
65) SS 4-BFB_MS	18.13	95	108051	10.18	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 101.78%			
83) SS 1,2-DCB-d4_MS	19.75	152	116996	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.29%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	137269	15.919	ug/L	99
3) chloromethane	3.19	50	140189	17.545	ug/L	100
4) vinyl chloride	3.34	62	78910	18.691	ug/L	100
5) bromomethane	3.99	94	96259	18.720	ug/L	99
6) chloroethane	4.11	64	129248	27.050	ug/L	99
7) trichlorofluoromethane	4.52	101	235938	21.377	ug/L	99
8) diethyl ether	5.01	59	235068	45.104	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	154171	20.233	ug/L	99
10) acrolein	5.39	56	135	Below Cal		86
11) acetone	5.38	43	29219	19.909	ug/L	98
12) 1,1-dichloroethene	5.61	96	136672	19.092	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.77	59	47503	88.109	ug/L #	84
15) methylene chloride	6.55	84	148626	19.977	ug/L	97
16) carbon disulfide	6.57	76	372604	19.567	ug/L	99
17) acrylonitrile	6.81	53	38561	16.252	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	320787	17.101	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	145974	21.361	ug/L	93
21) Isopropyl ether(DIPE)	7.81	45	385091	18.383	ug/L	99
22) vinyl acetate	8.05	43	194158	15.640	ug/L	97
23) 1,1-dichloroethane	8.04	63	251815	20.863	ug/L	98
24) Ethyl-t-butyl ether(ETBE)	8.69	59	347069	17.819	ug/L	96
25) 2,2-dichloropropane	9.24	77	181323	17.509	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	200267	21.724	ug/L	99
27) 2-butanone(MEK)	8.96	43	44051	17.412	ug/L	97
28) bromochloromethane	10.08	128	75472	20.351	ug/L	95
29) Tetrahydrofuran(THF)	10.14	42	79550	49.638	ug/L	94
30) chloroform	9.71	83	248171	20.491	ug/L	97
32) 1,1,1-trichloroethane	10.59	97	206135	19.335	ug/L	99
33) carbon tetrachloride	11.17	117	184241	19.503	ug/L	98
34) 1,1-dichloropropene	10.97	75	212938	20.873	ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	333283	17.693	ug/L #	58
37) benzene	11.56	78	760912	25.286	ug/L	98
38) 1,2-dichloroethane	11.53	62	175372	18.620	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090707.D Vial: 7
Acq On : 7 Sep 2012 2:28 pm Operator: BAM
Sample : 113593.02 MS Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:40 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	12.73	95	168557	20.424 ug/L	95
40)	1,2-dichloropropane	13.05	63	147787	20.609 ug/L	94
41)	1,4-dioxaneV	13.48	88	4749	71.725 ug/L	91
42)	dibromomethane	13.53	93	88600	20.305 ug/L	96
43)	bromodichloromethane	13.44	83	176194	19.604 ug/L	98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	38932	19.179 ug/L	96
46)	cis-1,3-dichloropropene	14.30	75	214195	19.827 ug/L	92
49)	toluene	14.77	91	704450	20.280 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	192115	17.479 ug/L #	85
51)	1,1,2-trichloroethane	15.25	83	107835	19.424 ug/L	96
52)	2-hexanone	15.25	43	65889	17.542 ug/L	95
53)	tetrachloroethene	15.67	166	216777	22.783 ug/L #	94
54)	1,3-dichloropropane	15.59	76	224155	18.715 ug/L	95
55)	dibromochloromethane	15.95	129	137074	17.590 ug/L #	99
56)	1,2-dibromoethane	16.22	107	132514	18.882 ug/L #	99
57)	chlorobenzene	16.74	112	540777	22.083 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	156533	19.714 ug/L	99
59)	ethylbenzene	16.79	91	817189	20.980 ug/L	99
60)	mp-xylene	16.89	106	677288	42.396 ug/L	96
61)	o-xylene	17.41	106	318910	20.315 ug/L	97
62)	styrene	17.46	104	537161	21.165 ug/L	98
63)	bromoform	17.88	173	86387	18.284 ug/L #	93
64)	iso-propylbenzene	17.83	105	901827	24.476 ug/L	99
67)	bromobenzene	18.38	156	210957	18.875 ug/L #	94
68)	1,1,2,2-tetrachloroethane	18.03	83	145657	18.734 ug/L	99
69)	1,2,3-trichloropropane	18.20	110	47808	17.285 ug/L	97
71)	n-propylbenzene	18.28	91	970067	20.028 ug/L	100
72)	2-chlorotoluene	18.51	91	559514	18.357 ug/L	98
73)	4-chlorotoluene	18.56	91	562027	18.469 ug/L	98
74)	1,3,5-trimethylbenzene	18.45	105	598228	18.865 ug/L	98
75)	tert-butylbenzene	18.84	119	614023	19.588 ug/L	96
76)	1,2,4-trimethylbenzene	18.89	105	592305	18.957 ug/L	97
77)	sec-butylbenzene	19.06	105	856831	20.000 ug/L	99
78)	1,3-dichlorobenzeneV	19.42	146	449592	21.707 ug/L	97
79)	p-isopropyltoluene	19.19	119	747857	20.547 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	449592	21.823 ug/L #	95
81)	1,2-dichlorobenzeneV	19.77	146	370058	19.230 ug/L #	95
82)	n-butylbenzene	19.58	91	603342	20.051 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.52	157	29466	20.235 ug/L	93
85)	1,3,5-trichlorobenzV	20.75	180	228010	19.122 ug/L	95
86)	1,2,4-trichlorobenzV	21.44	180	197620	19.609 ug/L	94
87)	hexachlorobutadieneV	21.56	225	86892	18.887 ug/L	95
88)	naphthaleneV	21.76	128	437090	18.566 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	162845	18.627 ug/L	95

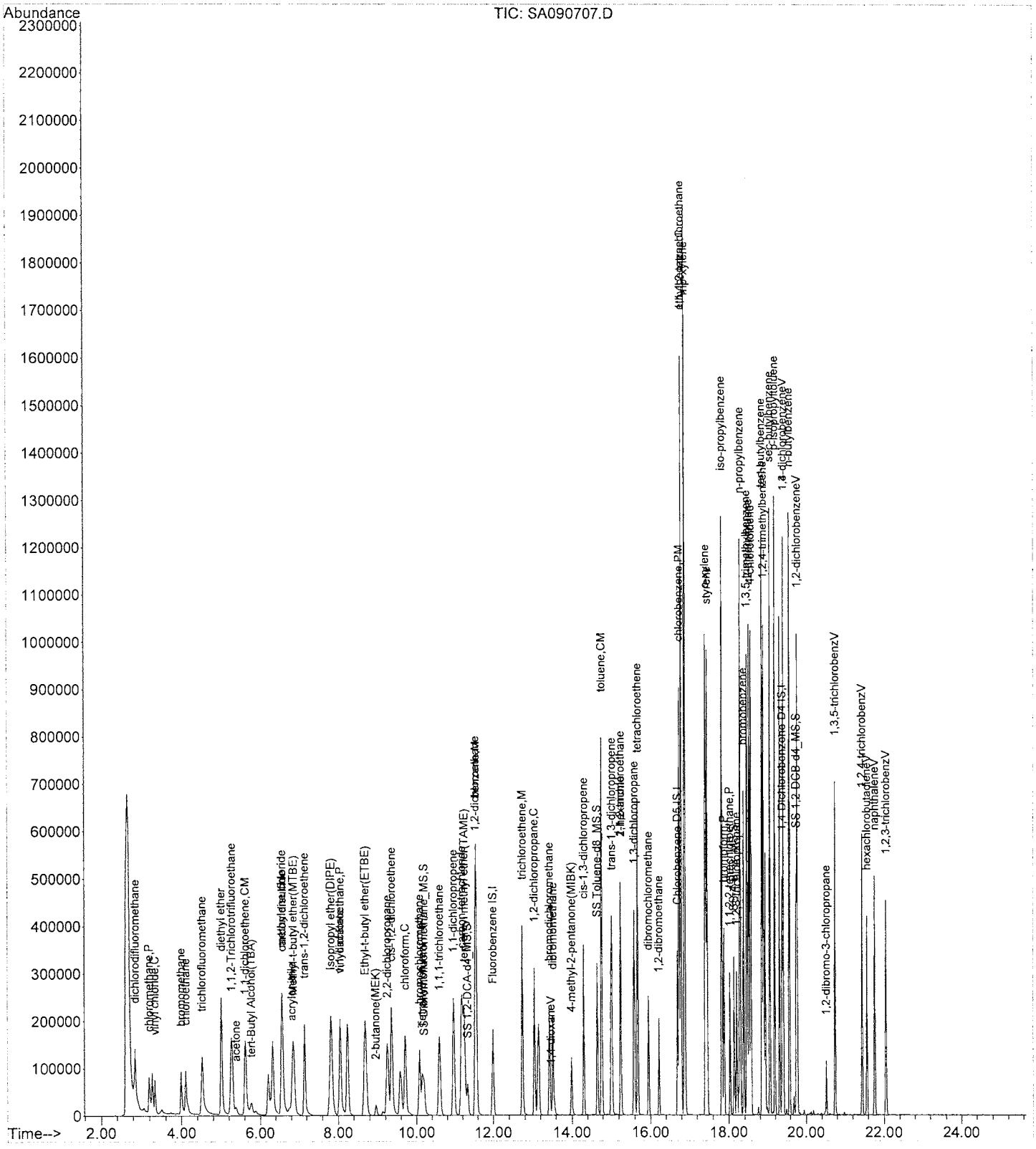
9/11/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090707.D Vial: 7
Acq On : 7 Sep 2012 2:28 pm Operator: BAM
Sample : 113593.02 MS Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090708.D Vial: 8
Acq On : 7 Sep 2012 3:03 pm Operator: BAM
Sample : 113593.02 MSD Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:44 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	268357	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	216936	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124502	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	64560	10.69	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.94%			
35) SS 1,2-DCA-d4_MS	11.32	65	65457	8.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.57%			
48) SS Toluene-d8_MS	14.66	98	269352	9.68	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.78%			
65) SS 4-BFB_MS	18.13	95	108759	10.07	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.71%			
83) SS 1,2-DCB-d4_MS	19.75	152	117542	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.17%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	128218	14.461	ug/L	99
3) chloromethane	3.19	50	131255	15.977	ug/L	99
4) vinyl chloride	3.34	62	73380	16.905	ug/L	100
5) bromomethane	3.99	94	95075	17.983	ug/L	99
6) chloroethane	4.11	64	122594	24.954	ug/L	99
7) trichlorofluoromethane	4.52	101	218849	19.285	ug/L	99
8) diethyl ether	5.02	59	236480	44.131	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	152080	19.411	ug/L	98
10) acrolein	5.27	56	667	Below Cal	#	1
11) acetone	5.38	43	27401	18.158	ug/L	99
12) 1,1-dichloroethene	5.61	96	135102	18.355	ug/L	95
13) tert-Butyl Alcohol(TBA)	5.77	59	49352	89.029	ug/L #	86
15) methylene chloride	6.55	84	146765	19.186	ug/L	96
16) carbon disulfide	6.57	76	369186	18.855	ug/L	99
17) acrylonitrile	6.81	53	37875	15.525	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	319542	16.567	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	146068	20.789	ug/L	93
21) Isopropyl ether(DIPE)	7.82	45	389949	18.105	ug/L	98
22) vinyl acetate	8.05	43	181347	14.208	ug/L	97
23) 1,1-dichloroethane	8.04	63	251690	20.280	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	353468	17.650	ug/L	97
25) 2,2-dichloropropane	9.25	77	180881	16.987	ug/L	99
26) cis-1,2-dichloroethene	9.35	61	197173	20.802	ug/L	98
27) 2-butanone(MEK)	8.96	43	41025	15.772	ug/L	97
28) bromochloromethane	10.08	128	74629	19.572	ug/L	94
29) Tetrahydrofuran(THF)	10.15	42	80148	48.640	ug/L	94
30) chloroform	9.71	83	245425	19.708	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	207132	18.896	ug/L	98
33) carbon tetrachloride	11.17	117	185462	19.094	ug/L	98
34) 1,1-dichloropropene	10.96	75	213328	20.338	ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	337816	17.441	ug/L #	62
37) benzene	11.56	78	765836	24.752	ug/L	98
38) 1,2-dichloroethane	11.53	62	174110	17.979	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090708.D Vial: 8
Acq On : 7 Sep 2012 3:03 pm Operator: BAM
Sample : 113593.02 MSD Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:44 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	12.73	95	168183	19.820	ug/L		95
40)	1,2-dichloropropane	13.05	63	146754	19.904	ug/L		95
41)	1,4-dioxaneV	13.48	88	5199	76.369	ug/L	#	88
42)	dibromomethane	13.53	93	87612	19.528	ug/L		95
43)	bromodichloromethane	13.44	83	175371	18.978	ug/L		98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	35930	17.214	ug/L		97
46)	cis-1,3-dichloropropene	14.30	75	215327	19.385	ug/L		92
49)	toluene	14.77	91	703090	19.897	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	191982	17.171	ug/L	#	87
51)	1,1,2-trichloroethane	15.25	83	107003	18.947	ug/L		96
52)	2-hexanone	15.25	43	60428	15.815	ug/L		95
53)	tetrachloroethene	15.67	166	216238	22.341	ug/L	#	95
54)	1,3-dichloropropane	15.60	76	223307	18.327	ug/L		97
55)	dibromochloromethane	15.95	129	136087	17.221	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	132167	18.512	ug/L	#	99
57)	chlorobenzene	16.74	112	539985	21.676	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	156860	19.420	ug/L		99
59)	ethylbenzene	16.79	91	810555	20.456	ug/L		98
60)	mp-xylene	16.89	106	673186	41.424	ug/L		96
61)	o-xylene	17.41	106	318890	19.969	ug/L		97
62)	styrene	17.46	104	537327	20.812	ug/L		98
63)	bromoform	17.88	173	86788	18.091	ug/L	#	92
64)	iso-propylbenzene	17.83	105	901904	24.062	ug/L		98
67)	bromobenzene	18.38	156	209402	18.814	ug/L	#	94
68)	1,1,2,2-tetrachloroethane	18.03	83	144212	18.626	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	47345	17.189	ug/L		98
71)	n-propylbenzene	18.28	91	964225	19.991	ug/L		99
72)	2-chlorotoluene	18.51	91	561510	18.500	ug/L		98
73)	4-chlorotoluene	18.56	91	567536	18.728	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	608585	19.272	ug/L		98
75)	tert-butylbenzene	18.84	119	614409	19.682	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	598810	19.245	ug/L		97
77)	sec-butylbenzene	19.06	105	859459	20.145	ug/L		99
78)	1,3-dichlorobenzeneV	19.42	146	451026	21.868	ug/L		97
79)	p-isopropyltoluene	19.19	119	749135	20.668	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	451026	21.984	ug/L	#	94
81)	1,2-dichlorobenzeneV	19.77	146	368514	19.230	ug/L	#	95
82)	n-butylbenzene	19.58	91	601447	20.071	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	28826	19.878	ug/L		94
85)	1,3,5-trichlorobenzV	20.75	180	233139	19.634	ug/L		95
86)	1,2,4-trichlorobenzV	21.44	180	202276	20.155	ug/L		94
87)	hexachlorobutadieneV	21.56	225	87865	19.179	ug/L		96
88)	naphthaleneV	21.76	128	448813	19.144	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	167493	19.239	ug/L		95

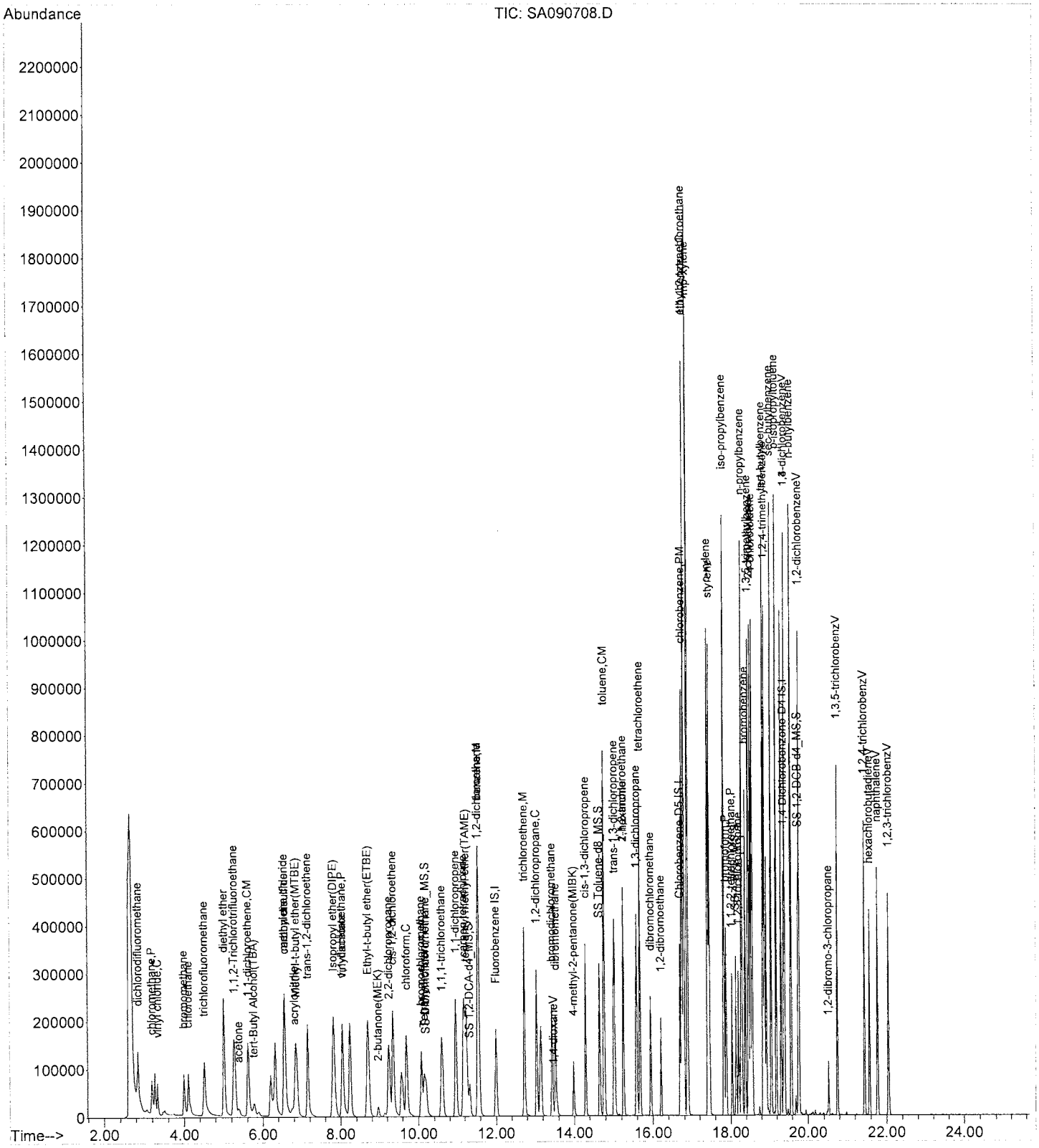
9/11/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090708.D Vial: 8
Acq On : 7 Sep 2012 3:03 pm Operator: BAM
Sample : 113593.02 MSD Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090709.D Vial: 9
Acq On : 7 Sep 2012 3:37 pm Operator: BAM
Sample : 113593.03 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:48 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	260430	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	207975	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	112876	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61369	10.47	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.75%			
35) SS 1,2-DCA-d4_MS	11.33	65	64590	9.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.07%			
48) SS Toluene-d8_MS	14.65	98	258150	9.67	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.75%			
65) SS 4-BFB_MS	18.13	95	100363	9.69	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.94%			
83) SS 1,2-DCB-d4_MS	19.75	152	107903	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.43%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.11	64	26867	5.635	ug/L	97
8) diethyl ether	5.01	59	146819	28.233	ug/L	98
11) acetone	5.38	43	2017	1.377	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.77	59	6426	11.945	ug/L #	78
16) carbon disulfide	6.58	76	8290	0.436	ug/L #	73
23) 1,1-dichloroethane	8.05	63	6018	0.500	ug/L #	80
29) Tetrahydrofuran(THF)	10.15	42	49198	30.766	ug/L	95
37) benzene	11.56	78	103537	3.448	ug/L #	97
38) 1,2-dichloroethane	11.53	62	4389	0.467	ug/L #	70
41) 1,4-dioxaneV	13.48	88	2930	44.349	ug/L	94
57) chlorobenzene	16.74	112	48406	2.027	ug/L	94
64) iso-propylbenzene	17.83	105	59695	1.661	ug/L	100
80) 1,4-dichlorobenzeneV	19.42	146	47434	2.550	ug/L #	93
81) 1,2-dichlorobenzeneV	19.77	146	6078	0.350	ug/L #	69
85) 1,3,5-trichlorobenzV	20.75	180	4755	0.442	ug/L	96
86) 1,2,4-trichlorobenzV	21.44	180	4959	0.545	ug/L	95
87) hexachlorobutadieneV	21.56	225	1394	0.336	ug/L	91
88) naphthaleneV	21.76	128	15429	0.726	ug/L	99
89) 1,2,3-trichlorobenzV	22.05	180	4719	0.598	ug/L	95

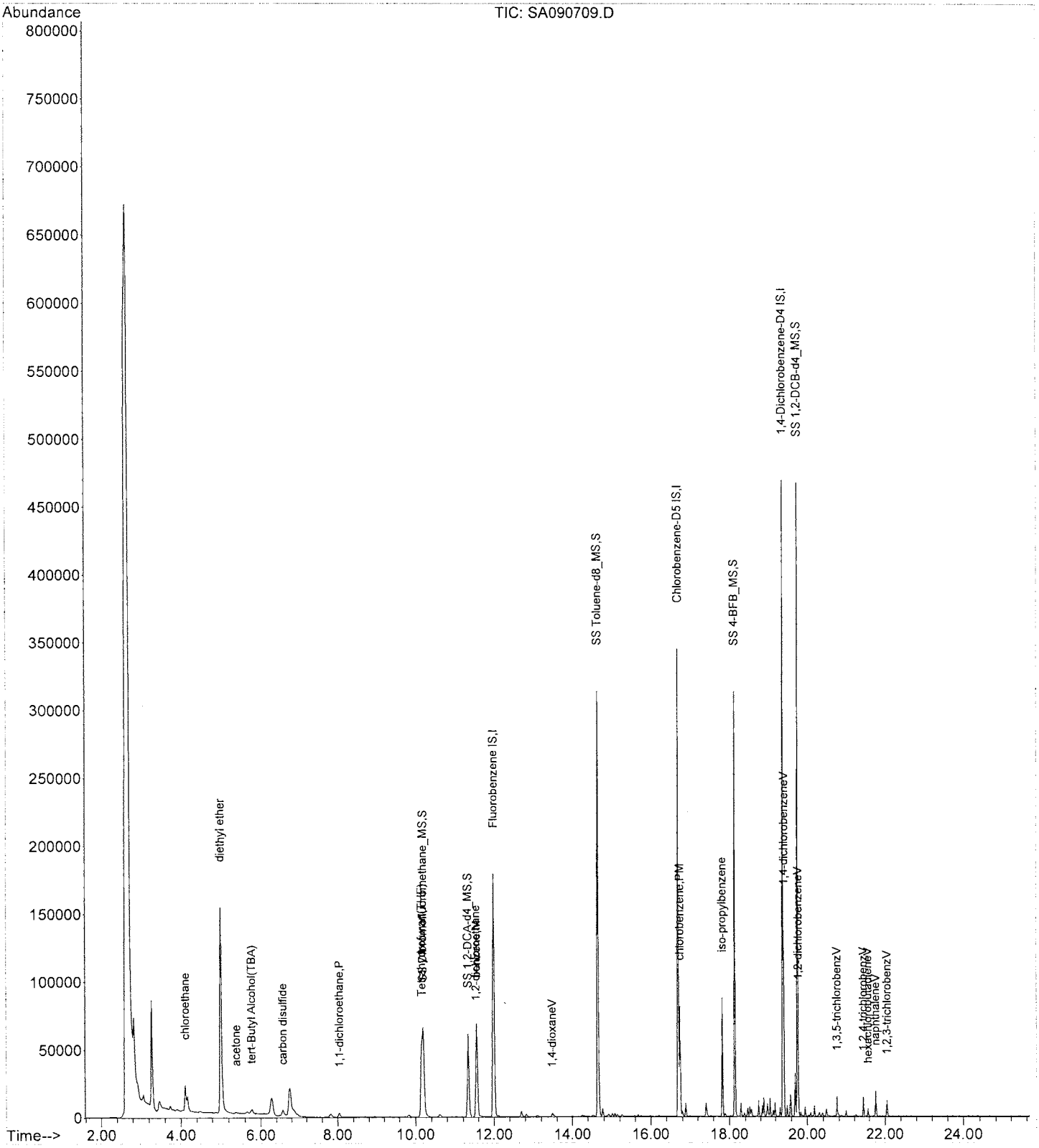
9/14/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090709.D Vial: 9
Acq On : 7 Sep 2012 3:37 pm Operator: BAM
Sample : 113593.03 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090710.D Vial: 10
Acq On : 7 Sep 2012 4:11 pm Operator: BAM
Sample : 113593.06 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 07:28:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	263040	10.000	ug/L		0.00
47) Chlorobenzene-D5 IS	16.69	117	212018	10.000	ug/L		0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	116376	10.000	ug/L		0.00
System Monitoring Compounds							
31) SS Dibromofluoromethane_MS	10.19	111	62171	10.51	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.06%				
35) SS 1,2-DCA-d4_MS	11.33	65	64428	8.99	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.94%				
48) SS Toluene-d8_MS	14.65	98	263667	9.69	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.93%				
65) SS 4-BFB_MS	18.13	95	102713	9.73	ug/L		0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.32%				
83) SS 1,2-DCB-d4_MS	19.75	152	110669	10.09	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%				
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L		
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#				
Target Compounds							Qvalue
6) chloroethane	4.11	64	88068	18.289	ug/L		99
8) diethyl ether	5.01	59	382554	72.834	ug/L		97
11) acetone	5.38	43	10912	7.377	ug/L	#	86
13) tert-Butyl Alcohol(TBA)	5.76	59	20273	37.311	ug/L	#	82
15) methylene chloride	6.55	84	3398	0.453	ug/L		96
16) carbon disulfide	6.57	76	8145	0.424	ug/L	#	68
18) Methyl-t-butyl ether(MTBE)	6.85	73	9273	0.490	ug/L		96
23) 1,1-dichloroethane	8.04	63	5357	0.440	ug/L	#	83
27) 2-butanone(MEK)	8.97	43	801	0.314	ug/L	#	63
29) Tetrahydrofuran(THF)	10.14	42	164933	102.117	ug/L		94
37) benzene	11.55	78	173460	5.720	ug/L	#	97
41) 1,4-dioxaneV	13.48	88	10174	152.468	ug/L	#	93
49) toluene	14.77	91	19803	0.573	ug/L		99
57) chlorobenzene	16.74	112	220502	9.057	ug/L		96
60) mp-xylene	16.89	106	20822	1.311	ug/L		98
61) o-xylene	17.41	106	14703	0.942	ug/L		99
64) iso-propylbenzene	17.83	105	60801	1.660	ug/L		98
76) 1,2,4-trimethylbenzene	18.89	105	23572	0.810	ug/L		100
78) 1,3-dichlorobenzeneV	~~19.42~~	146	45555	~~2.363~~	ug/L		96
80) 1,4-dichlorobenzeneV	19.42	146	45555	2.375	ug/L	#	93
88) naphthaleneV	21.76	128	19862	0.906	ug/L		99

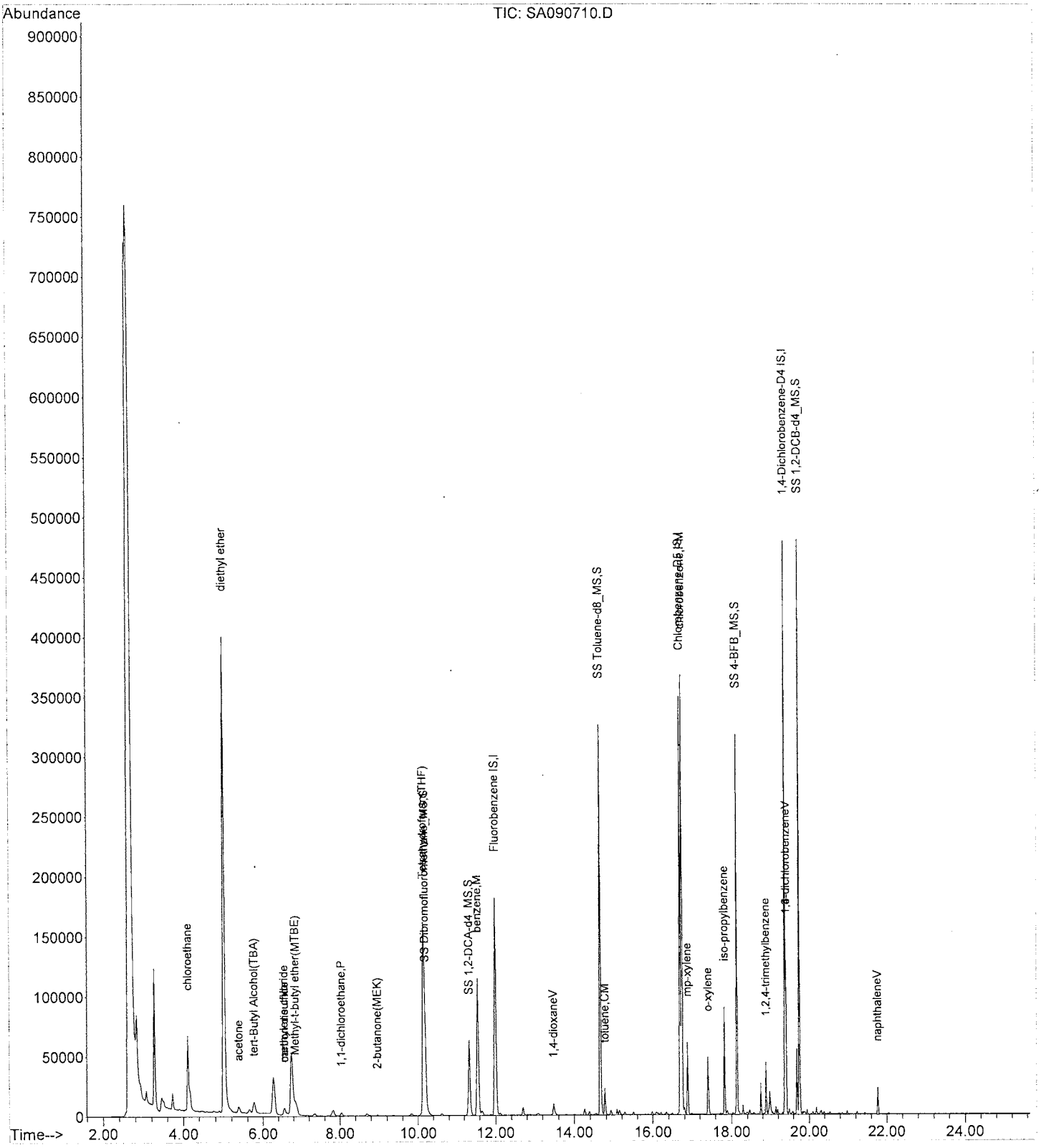
9/11/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0712\SA090710.D Vial: 10
Acq On : 7 Sep 2012 4:11 pm Operator: BAM
Sample : 113593.06 Inst : VOAMS5
Misc : x1; 5mL; RR Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090716.D Vial: 16
Acq On : 7 Sep 2012 7:36 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:33:59 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	269294	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	218975	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128261	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	63840	10.54	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.38%			
35) SS 1,2-DCA-d4_MS	11.33	65	66469	9.06	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.63%			
48) SS Toluene-d8_MS	14.66	98	271044	9.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.48%			
65) SS 4-BFB_MS	18.13	95	109597	10.05	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.54%			
83) SS 1,2-DCB-d4_MS	19.75	152	119859	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.15%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	116824	13.130	ug/L	99
3) chloromethane	3.19	50	124573	15.111	ug/L	100
4) vinyl chloride	3.34	62	66949	15.370	ug/L	99
5) bromomethane	3.99	94	89732	16.913	ug/L	99
6) chloroethane	4.11	64	91195	18.498	ug/L	99
7) trichlorofluoromethane	4.52	101	202499	17.782	ug/L	100
8) diethyl ether	5.02	59	88249	16.411	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	134600	17.120	ug/L	98
10) acrolein	5.27	56	616	Below Cal	#	61
11) acetone	5.38	43	26766	17.676	ug/L	98
12) 1,1-dichloroethene	5.61	96	121209	16.410	ug/L	95
13) tert-Butyl Alcohol(TBA)	5.77	59	41153	73.980	ug/L #	85
15) methylene chloride	6.55	84	137456	17.906	ug/L	97
16) carbon disulfide	6.57	76	316976	16.133	ug/L	99
17) acrylonitrile	6.81	53	36724	15.001	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	300999	15.552	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	129534	18.372	ug/L	93
21) Isopropyl ether(DIPE)	7.82	45	359545	16.635	ug/L	98
22) vinyl acetate	8.05	43	174899	13.655	ug/L	97
23) 1,1-dichloroethane	8.04	63	224053	17.991	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	330050	16.423	ug/L	96
25) 2,2-dichloropropane	9.25	77	139894	13.092	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	184928	19.442	ug/L	98
27) 2-butanone(MEK)	8.96	43	42068	16.116	ug/L	96
28) bromochloromethane	10.08	128	71445	18.671	ug/L	94
29) Tetrahydrofuran(THF)	10.16	42	27087	16.381	ug/L	95
30) chloroform	9.71	83	227131	18.176	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	183328	16.666	ug/L	99
33) carbon tetrachloride	11.17	117	160216	16.438	ug/L	98
34) 1,1-dichloropropene	10.97	75	188255	17.885	ug/L	90
36) tert-amyl methyl ether(TAM	11.24	73	315910	16.254	ug/L #	59
37) benzene	11.56	78	602868	19.417	ug/L	98
38) 1,2-dichloroethane	11.53	62	161833	16.653	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\SEPT0712\SA090716.D Vial: 16
Acq On : 7 Sep 2012 7:36 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:33:59 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

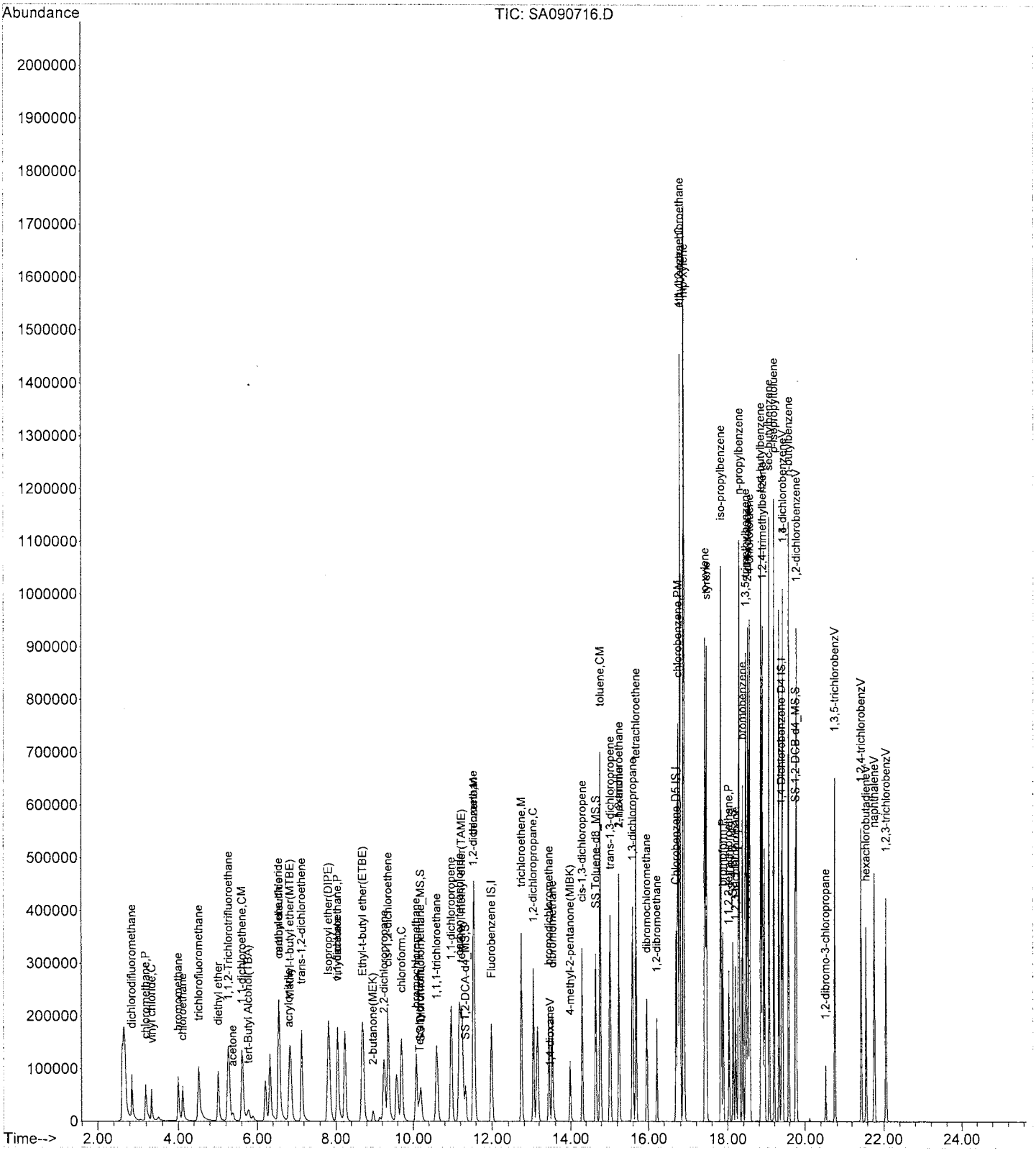
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	12.73	95	152046	17.856	ug/L		95
40)	1,2-dichloropropane	13.05	63	137439	18.576	ug/L		94
41)	1,4-dioxaneV	13.48	88	1556	22.777	ug/L	#	60
42)	dibromomethane	13.53	93	84430	18.753	ug/L		96
43)	bromodichloromethane	13.44	83	163037	17.582	ug/L		98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	36393	17.376	ug/L		98
46)	cis-1,3-dichloropropene	14.30	75	195609	17.549	ug/L		92
49)	toluene	14.77	91	639429	17.927	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	177283	15.709	ug/L	#	85
51)	1,1,2-trichloroethane	15.25	83	103375	18.134	ug/L		96
52)	2-hexanone	15.25	43	61762	16.014	ug/L		96
53)	tetrachloroethene	15.67	166	194617	19.920	ug/L	#	94
54)	1,3-dichloropropane	15.59	76	214636	17.452	ug/L		97
55)	dibromochloromethane	15.95	129	128618	16.269	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	127077	17.634	ug/L	#	99
57)	chlorobenzene	16.74	112	456160	18.141	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	146033	17.912	ug/L		99
59)	ethylbenzene	16.79	91	739735	18.495	ug/L		98
60)	mp-xylene	16.89	106	610771	37.234	ug/L		96
61)	o-xylene	17.41	106	291404	18.078	ug/L		97
62)	styrene	17.46	104	494920	18.991	ug/L		97
63)	bromoform	17.88	173	81364	16.997	ug/L	#	93
64)	iso-propylbenzene	17.83	105	749943	19.822	ug/L		98
67)	bromobenzene	18.38	156	196970	17.179	ug/L	#	94
68)	1,1,2,2-tetrachloroethane	18.03	83	139256	17.459	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	46482	16.381	ug/L		96
71)	n-propylbenzene	18.28	91	871609	17.541	ug/L		99
72)	2-chlorotoluene	18.51	91	513772	16.431	ug/L		98
73)	4-chlorotoluene	18.56	91	521310	16.698	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	551154	16.942	ug/L		98
75)	tert-butylbenzene	18.84	119	552399	17.177	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	537549	16.770	ug/L		98
77)	sec-butylbenzene	19.06	105	766612	17.442	ug/L		98
78)	1,3-dichlorobenzeneV	19.42	146	376044	17.698	ug/L		97
79)	p-isopropyltoluene	19.19	119	675513	18.090	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	376044	17.792	ug/L	#	95
81)	1,2-dichlorobenzeneV	19.78	146	343880	17.419	ug/L	#	94
82)	n-butylbenzene	19.58	91	533939	17.296	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	27702	18.543	ug/L		93
85)	1,3,5-trichlorobenzV	20.75	180	209088	17.092	ug/L		95
86)	1,2,4-trichlorobenzV	21.44	180	182442	17.646	ug/L		95
87)	hexachlorobutadieneV	21.56	225	76821	16.277	ug/L		96
88)	naphthaleneV	21.76	128	408934	16.932	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	152113	16.960	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090716.D Vial: 16
Acq On : 7 Sep 2012 7:36 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:34 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090717.D Vial: 17
Acq On : 7 Sep 2012 8:10 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:34:44 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	267327	10.000	ug/L		0.00
47) Chlorobenzene-D5 IS	16.69	117	217913	10.000	ug/L		0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	127761	10.000	ug/L		0.00
System Monitoring Compounds							
31) SS Dibromofluoromethane_MS	10.19	111	63847	10.62	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.16%				
35) SS 1,2-DCA-d4_MS	11.33	65	65060	8.94	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.37%				
48) SS Toluene-d8_MS	14.66	98	270198	9.66	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.65%				
65) SS 4-BFB_MS	18.13	95	109121	10.06	ug/L		0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.59%				
83) SS 1,2-DCB-d4_MS	19.75	152	119135	9.89	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.94%				
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L		
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	119541	13.535	ug/L		99
3) chloromethane	3.19	50	125791	15.371	ug/L		99
4) vinyl chloride	3.34	62	68554	15.854	ug/L		100
5) bromomethane	3.99	94	94930	18.025	ug/L		98
6) chloroethane	4.11	64	93801	19.167	ug/L		99
7) trichlorofluoromethane	4.52	101	209029	18.491	ug/L		99
8) diethyl ether	5.02	59	91905	17.217	ug/L		98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	137964	17.677	ug/L		98
10) acrolein	5.28	56	1969	4.811	ug/L	#	73
11) acetone	5.38	43	28271	18.807	ug/L		99
12) 1,1-dichloroethene	5.61	96	124347	16.959	ug/L		95
13) tert-Butyl Alcohol(TBA)	5.78	59	43873	79.450	ug/L	#	87
15) methylene chloride	6.55	84	141985	18.632	ug/L		96
16) carbon disulfide	6.57	76	330025	16.920	ug/L		100
17) acrylonitrile	6.81	53	38313	15.765	ug/L		96
18) Methyl-t-butyl ether(MTBE)	6.85	73	314920	16.391	ug/L		97
19) trans-1,2-dichloroethene	7.15	96	134840	19.265	ug/L		92
21) Isopropyl ether(DIPE)	7.81	45	372014	17.339	ug/L		98
22) vinyl acetate	8.05	43	186461	14.665	ug/L		96
23) 1,1-dichloroethane	8.04	63	232497	18.806	ug/L		99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	346483	17.368	ug/L		97
25) 2,2-dichloropropane	9.25	77	146079	13.771	ug/L		99
26) cis-1,2-dichloroethene	9.36	61	187570	19.865	ug/L		98
27) 2-butanone(MEK)	8.96	43	44504	17.175	ug/L		96
28) bromochloromethane	10.08	128	73089	19.242	ug/L		94
29) Tetrahydrofuran(THF)	10.16	42	28699	17.484	ug/L		94
30) chloroform	9.71	83	234147	18.875	ug/L		98
32) 1,1,1-trichloroethane	10.59	97	190196	17.418	ug/L		99
33) carbon tetrachloride	11.17	117	166753	17.234	ug/L		97
34) 1,1-dichloropropene	10.97	75	195026	18.664	ug/L		90
36) tert-amyl methyl ether(TAM	11.24	73	330846	17.147	ug/L	#	60
37) benzene	11.56	78	617160	20.023	ug/L		98
38) 1,2-dichloroethane	11.53	62	166496	17.259	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\SEPT0712\SA090717.D Vial: 17
Acq On : 7 Sep 2012 8:10 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:34:44 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

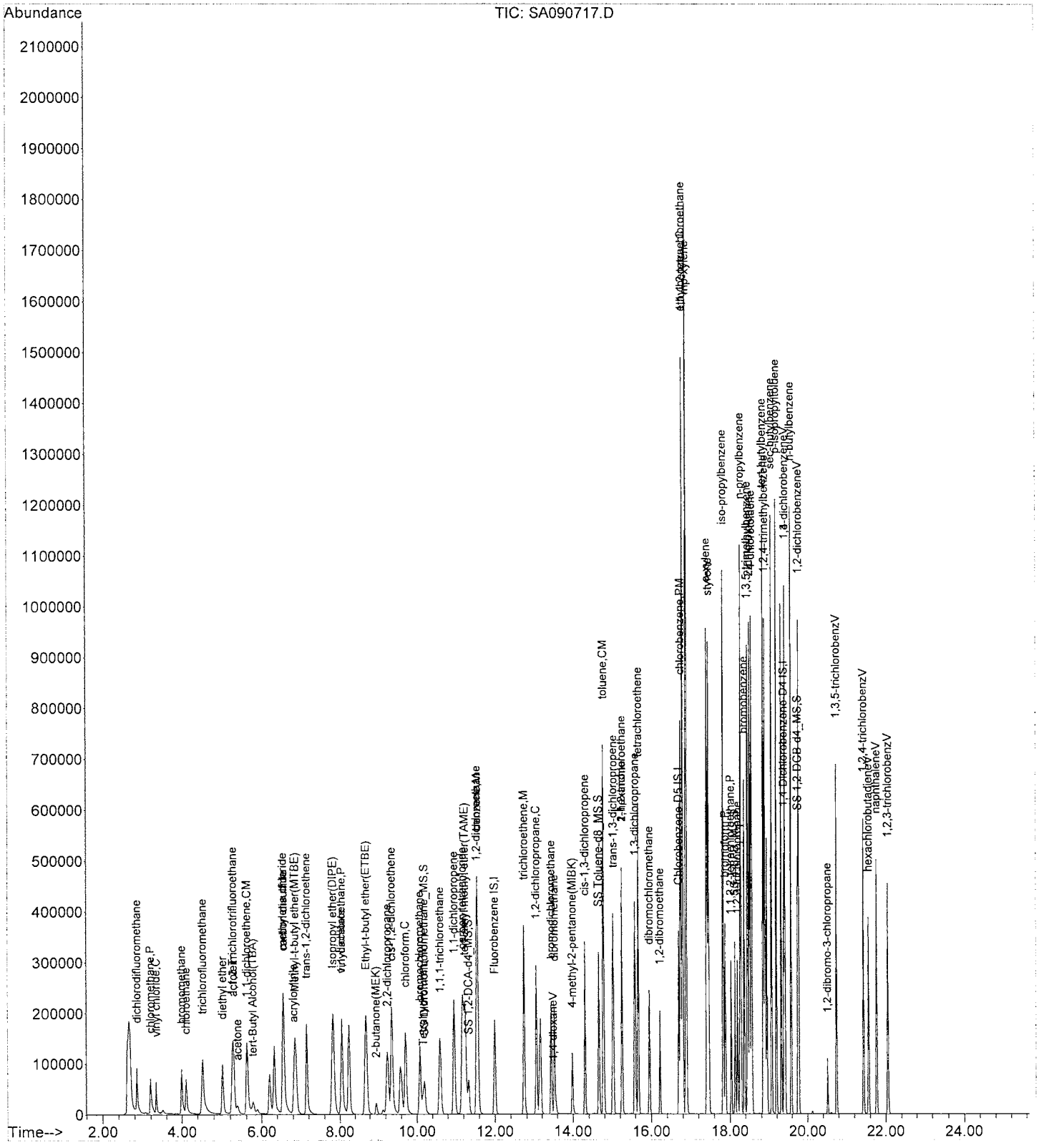
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	trichloroethene	12.73	95	157024	18.576 ug/L		95
40)	1,2-dichloropropane	13.05	63	140949	19.190 ug/L		94
41)	1,4-dioxaneV	13.49	88	1663m	24.522 ug/L		
42)	dibromomethane	13.53	93	86590	19.374 ug/L		95
43)	bromodichloromethane	13.44	83	170396	18.510 ug/L		98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	38405	18.471 ug/L		96
46)	cis-1,3-dichloropropene	14.30	75	203028	18.349 ug/L		91
49)	toluene	14.77	91	660233	18.601 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	182592	16.258 ug/L	#	86
51)	1,1,2-trichloroethane	15.25	83	106328	18.743 ug/L		96
52)	2-hexanone	15.25	43	64916	16.913 ug/L		96
53)	tetrachloroethene	15.67	166	199583	20.527 ug/L	#	94
54)	1,3-dichloropropane	15.60	76	221614	18.107 ug/L		97
55)	dibromochloromethane	15.95	129	133789	16.903 ug/L	#	100
56)	1,2-dibromoethane	16.22	107	131526	18.340 ug/L	#	99
57)	chlorobenzene	16.74	112	467209	18.671 ug/L	#	96
58)	1,1,1,2-tetrachloroethane	16.79	131	150792	18.585 ug/L		99
59)	ethylbenzene	16.79	91	761746	19.138 ug/L		98
60)	mp-xylene	16.89	106	629183	38.543 ug/L		96
61)	o-xylene	17.41	106	298750	18.624 ug/L		97
62)	styrene	17.46	104	506906	19.545 ug/L		98
63)	bromoform	17.88	173	85536	17.802 ug/L	#	92
64)	iso-propylbenzene	17.83	105	775810	20.605 ug/L		98
67)	bromobenzene	18.38	156	203358	17.805 ug/L	#	94
68)	1,1,2,2-tetrachloroethane	18.03	83	146174	18.398 ug/L		98
69)	1,2,3-trichloropropane	18.20	110	47664	16.863 ug/L		97
71)	n-propylbenzene	18.28	91	898350	18.150 ug/L		99
72)	2-chlorotoluene	18.51	91	531330	17.059 ug/L		98
73)	4-chlorotoluene	18.56	91	536427	17.250 ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	571079	17.623 ug/L		98
75)	tert-butylbenzene	18.84	119	575919	17.978 ug/L		96
76)	1,2,4-trimethylbenzene	18.89	105	560233	17.546 ug/L		97
77)	sec-butylbenzene	19.06	105	795486	18.170 ug/L		98
78)	1,3-dichlorobenzeneV	19.42	146	387089	18.289 ug/L		97
79)	p-isopropyltoluene	19.19	119	700463	18.832 ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	387089	18.386 ug/L	#	95
81)	1,2-dichlorobenzeneV	19.78	146	353921	17.997 ug/L	#	95
82)	n-butylbenzene	19.58	91	553493	18.000 ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	28308	19.023 ug/L		93
85)	1,3,5-trichlorobenzV	20.75	180	219853	18.043 ug/L		95
86)	1,2,4-trichlorobenzV	21.44	180	192464	18.688 ug/L		95
87)	hexachlorobutadieneV	21.56	225	80520	17.127 ug/L		95
88)	naphthaleneV	21.76	128	434654	18.067 ug/L		98
89)	1,2,3-trichlorobenzV	22.05	180	162413	18.179 ug/L	#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEPT0712\SA090717.D Vial: 17
Acq On : 7 Sep 2012 8:10 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 11 11:34 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

1,4 Dioxane 8260B SIM

Initial Calibration

25 Chenell Drive | Concord, NH 03301 | 800.287.0525 | www.eailabs.com

IS/SS ID= V- 39341

Standard ID= V- 39335

LCS/LCSD and/or MS/MSD Standard ID= V- 39336

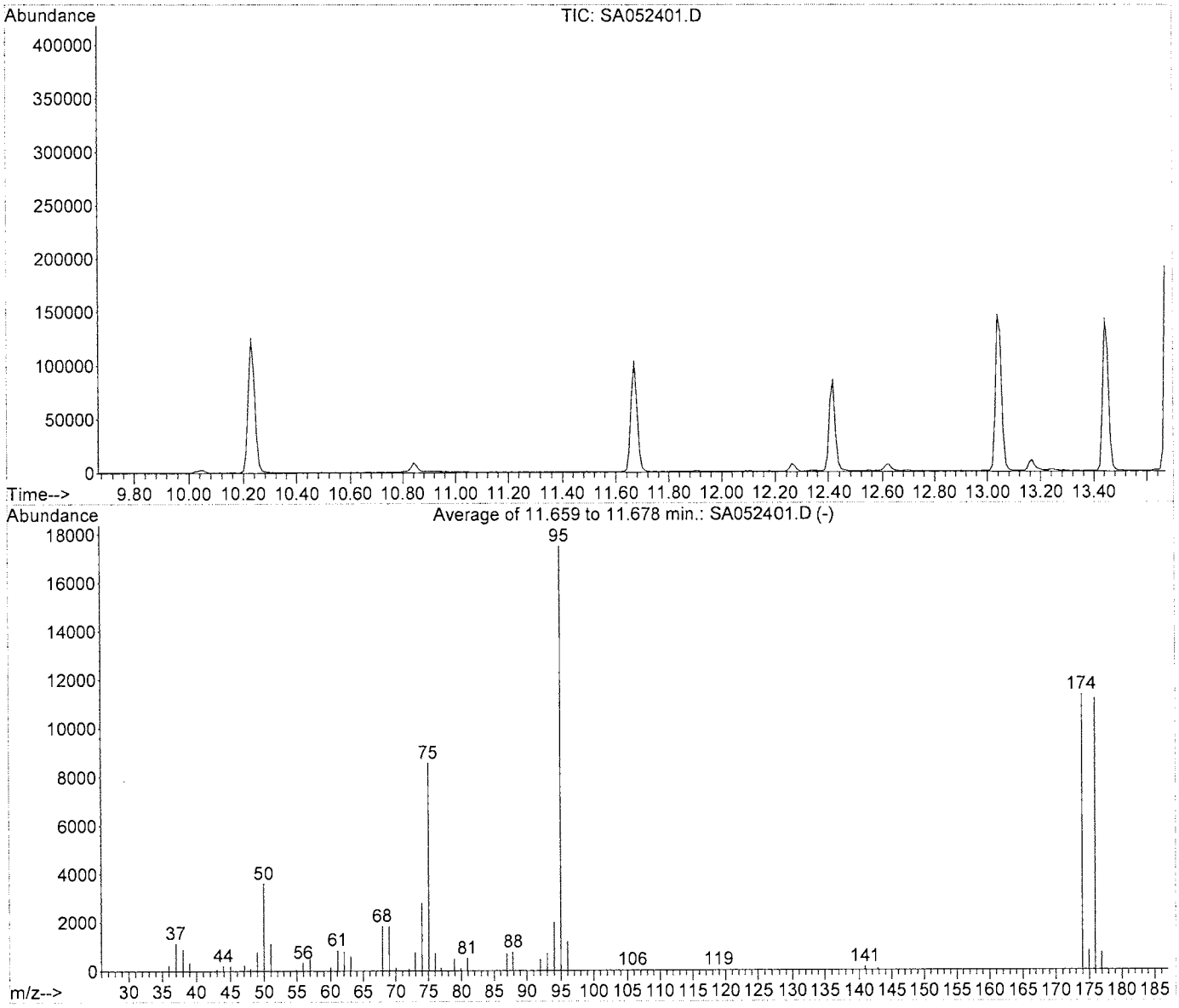
Analyst: VSJG

Date: 5/23/15

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SAD231	BFB		✓		X1	VOC MSI			
2	SAD232	STD5		✓			VOC SIM	25IM(DLD		
3	43	LCS5		✓			VOC		STD5 - test run. Do not use	
4	4	LCSD5		✓			VOC		STD2	
5	5	Blank		✓			VOC		STD1	
6	6	STD0.5		✓			VOC			
7	7	STD0.25		✓			VOC		NEW ICAL	
8	8	STD10		✓			VOC			
9	9	20		✓			VOC		25IM0524	
10	10	Blank		✓			VOC			
11	11	STD50		✓			VOC			
12	12	Blank		✓			VOC			
13	13	BFB		✓			VOC MSI			
14	14	STD5		✓			VOC SIM			
15	15	LCS5		✓			VOC			
16	16	LCSD5		✓			VOC			
17	17	Blank		✓			VOC			
18	18	1104340.01		✓			VOC			
19	19	02		✓			VOC			
20	20	03		✓			VOC			
21	21	04		✓			VOC			
22	22	05		✓			VOC			
23	23	06		✓			VOC			
24	24	1104720.01		✓			VOC			
25	25	02		✓			VOC		] Stopped here	
26	26	03		✓			VOC			
27	27	04		✓		↓	VOC			
28							VOC			
29							VOC			
30							VOC			
31							VOC			
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							VOC			

Samples removed from autosampler, order verified by VSJG 5/25/15

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052401.D Vial: 1
Acq On : 24 May 2012 12:31 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.659 to 11.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	3614	PASS
75	95	30	60	49.0	8582	PASS
95	95	100	100	100.0	17506	PASS
96	95	5	9	6.8	1195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	11352	PASS
175	174	5	9	7.1	804	PASS
176	174	95	101	98.5	11180	PASS
177	176	5	9	6.5	732	PASS

Response Factor Report VOAMS2

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration

Calibration Files
1 =SA052405.D 20 =SA052409.D 10 =SA052408.D
50 =SA052411.D .25 =SA052407.D 5 =SA052402.D

		Compound	1	20	10	50	.25	5	Avg	%RSD
1)	I	Fluorobenzene IS	----------ISTD----------							
2)		1,4-dioxaneV	0.026	0.019	0.021	0.016	0.024	0.021	0.021#	13.59
3)	S	SS Toluene-d8_M	0.988	0.990	0.983	0.987	0.984	0.983	0.999	3.86
4)	S	SS 4-BFB_MS	0.446	0.452	0.448	0.453	0.444	0.447	0.448	0.69

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:49:41 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

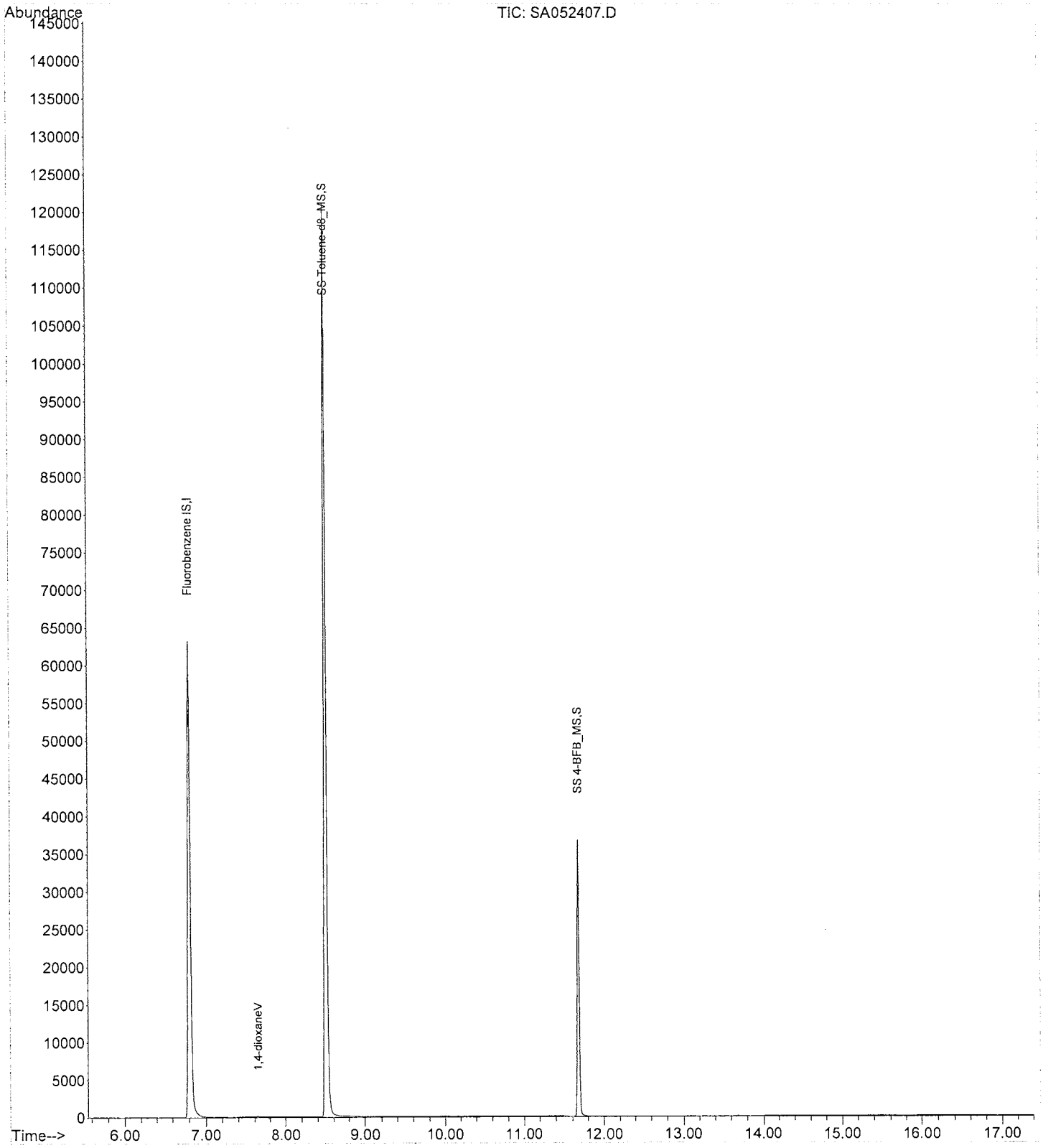
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140323	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138140	9.73	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.34%			
4) SS 4-BFB_MS	11.68	95	62363	9.95	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	84	0.263	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:56:01 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:33:08 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

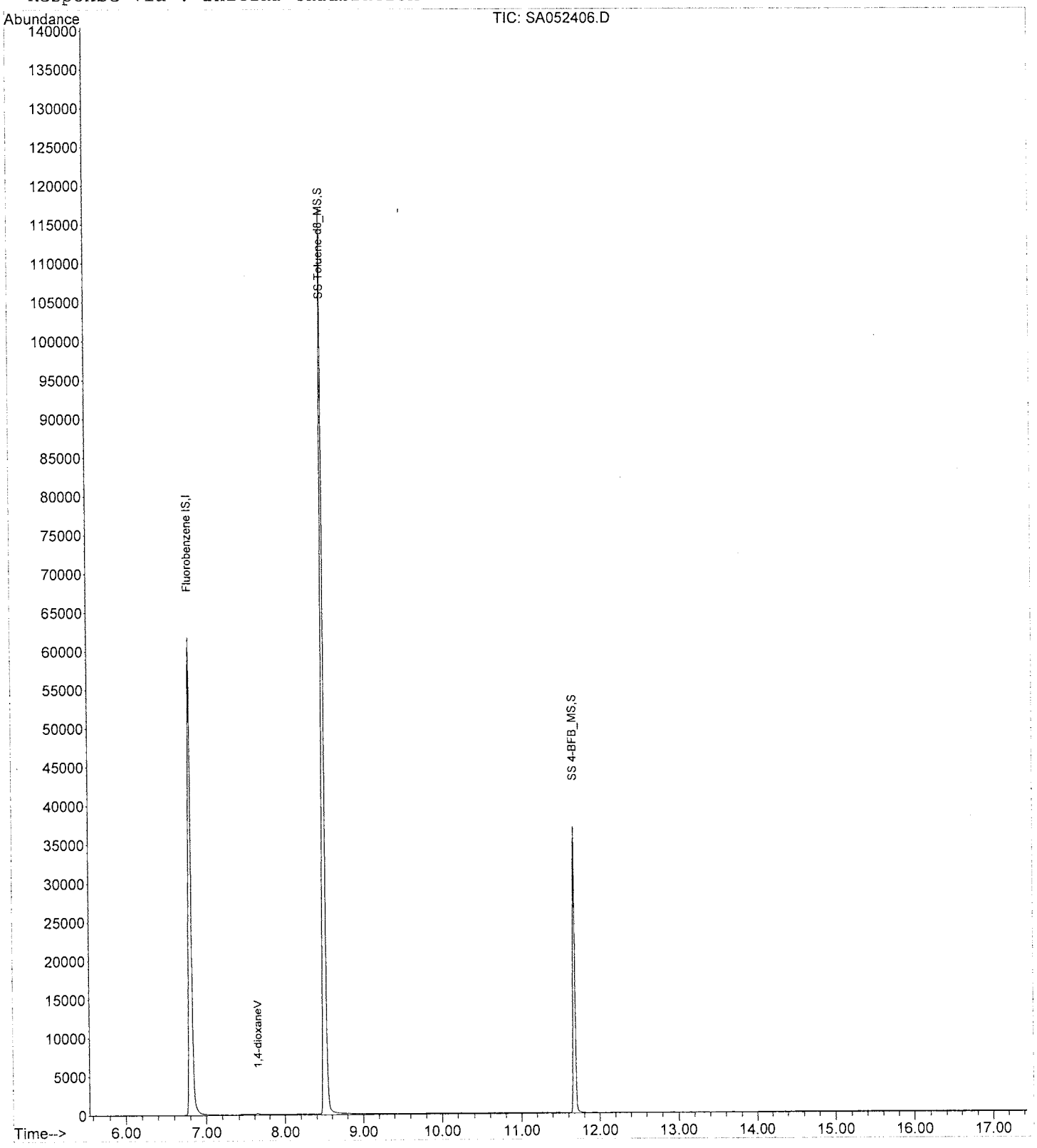
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	141577	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	154861	11.12	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.18%			
4) SS 4-BFB_MS	11.68	95	63244	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	148	0.448	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA052406.D 2SIM0524.M Fri Aug 31 10:59:17 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:55 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:05:39 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:38:10 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

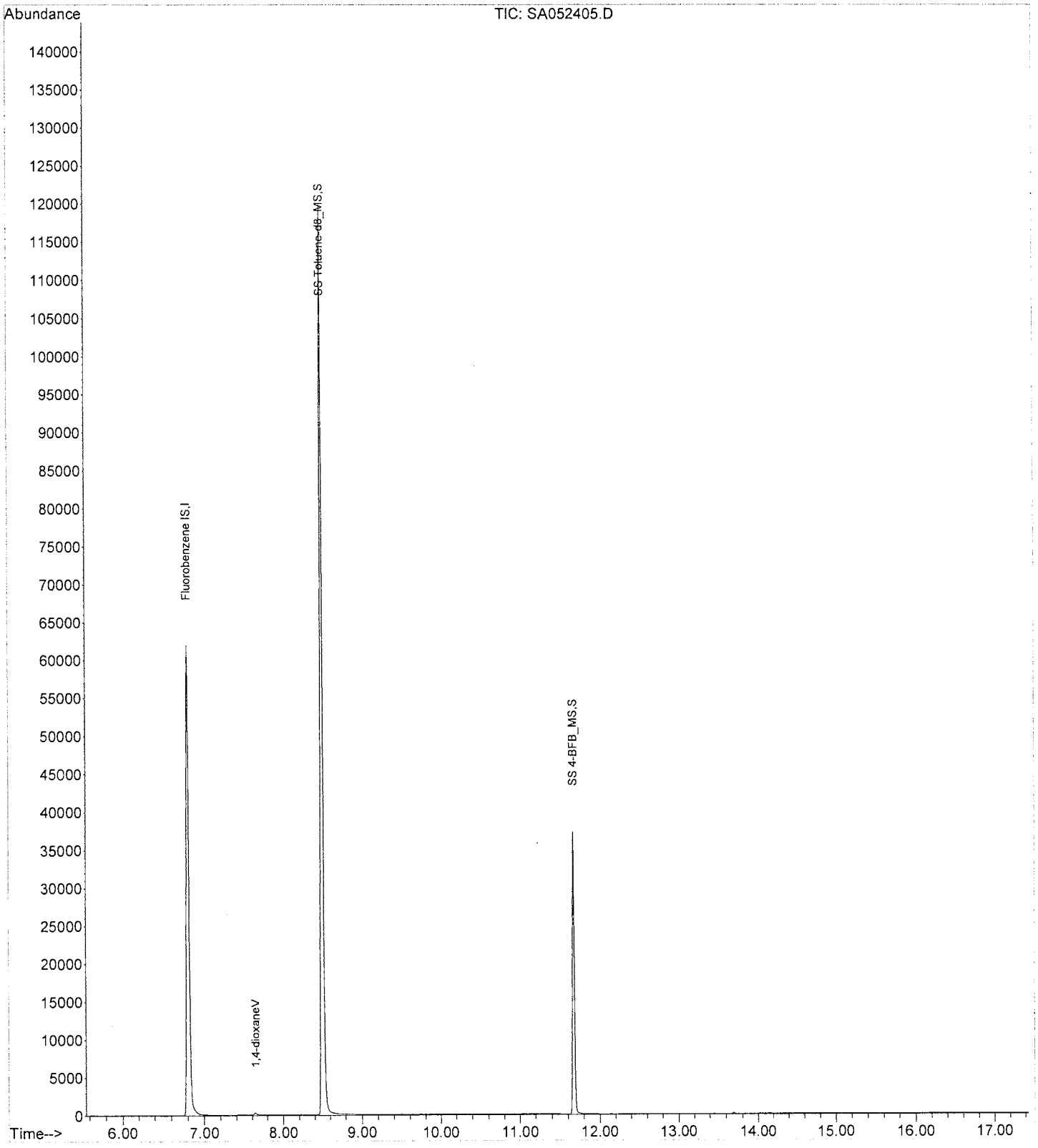
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140851	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	139222	10.07	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.71%			
4) SS 4-BFB_MS	11.68	95	62886	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.98%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	360m	1.149	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:32 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36:43 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

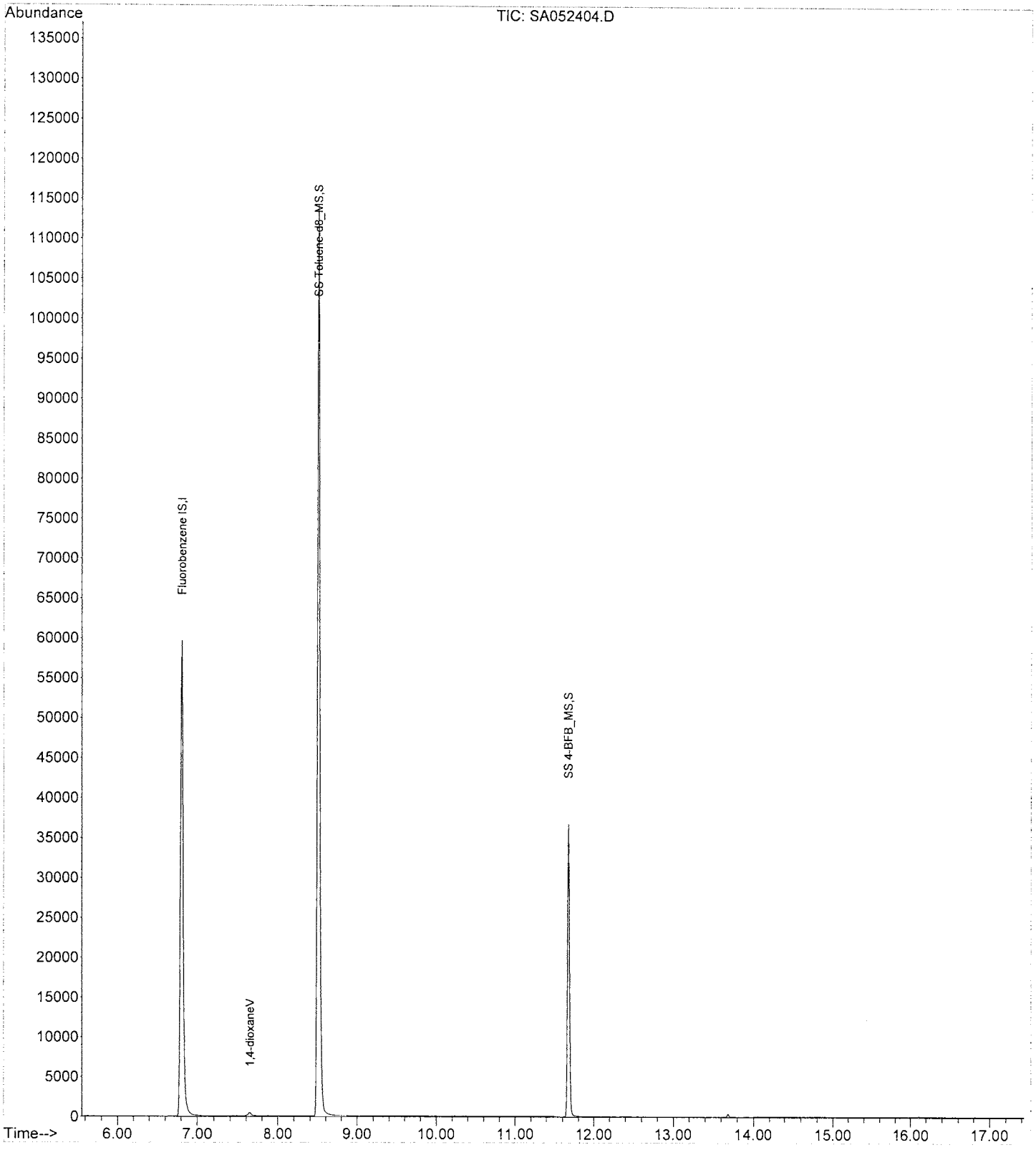
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	143436	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140522	10.35	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.54%			
4) SS 4-BFB_MS	11.67	95	63956	11.53	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.28%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	663	0.976	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30:25 2012 Quant Results File: 2SIM0510.RES

Quant Method : V:\1\METHODS\2012\2SIM0510.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

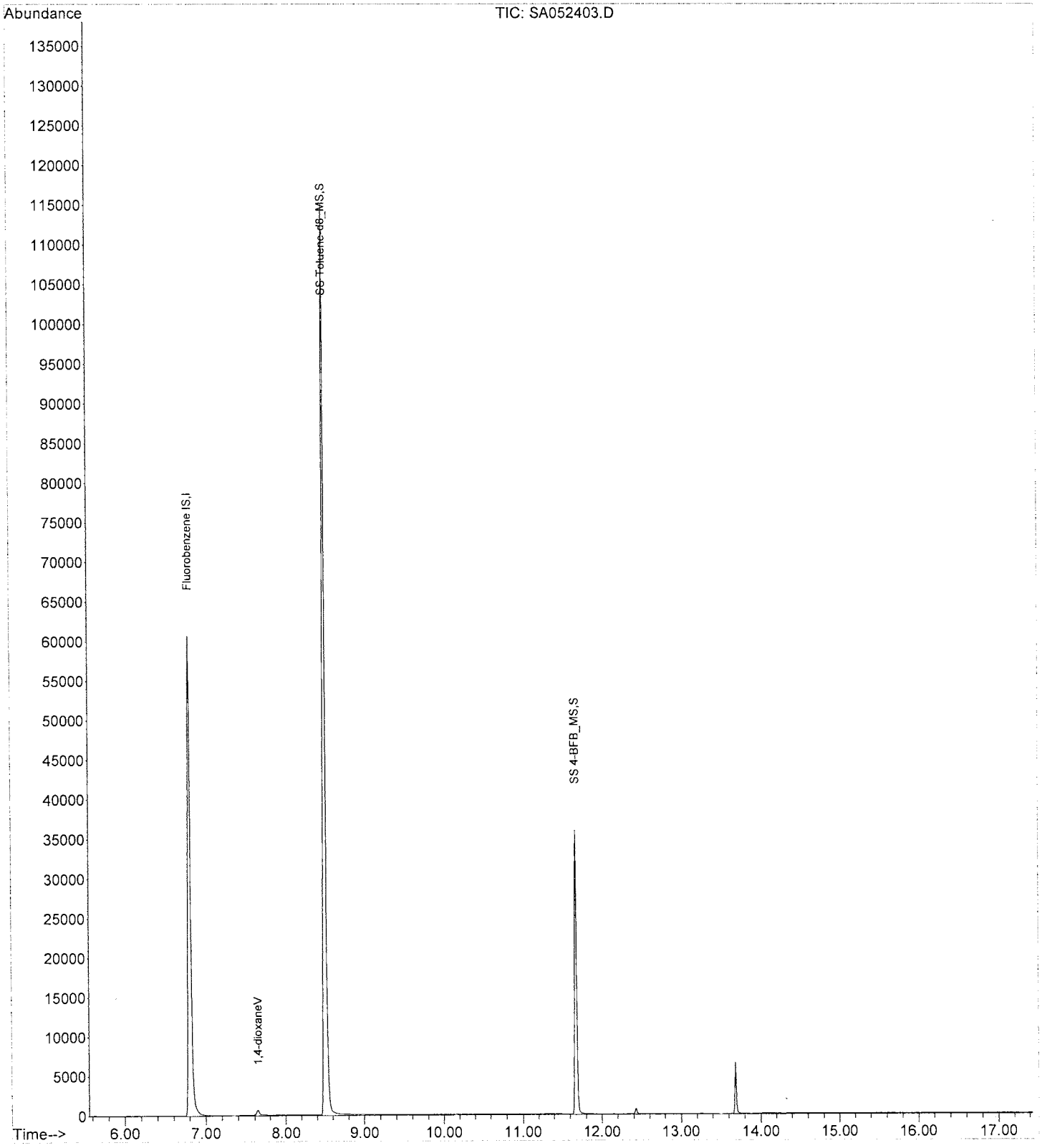
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	142091	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140152	10.42	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.24%			
4) SS 4-BFB_MS	11.67	95	63694	11.59	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.89%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	965	1.434	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA052403.D 2SIM0524.M Fri Aug 31 10:58:29 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30 2012 Quant Results File: 2SIM0510.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:05 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

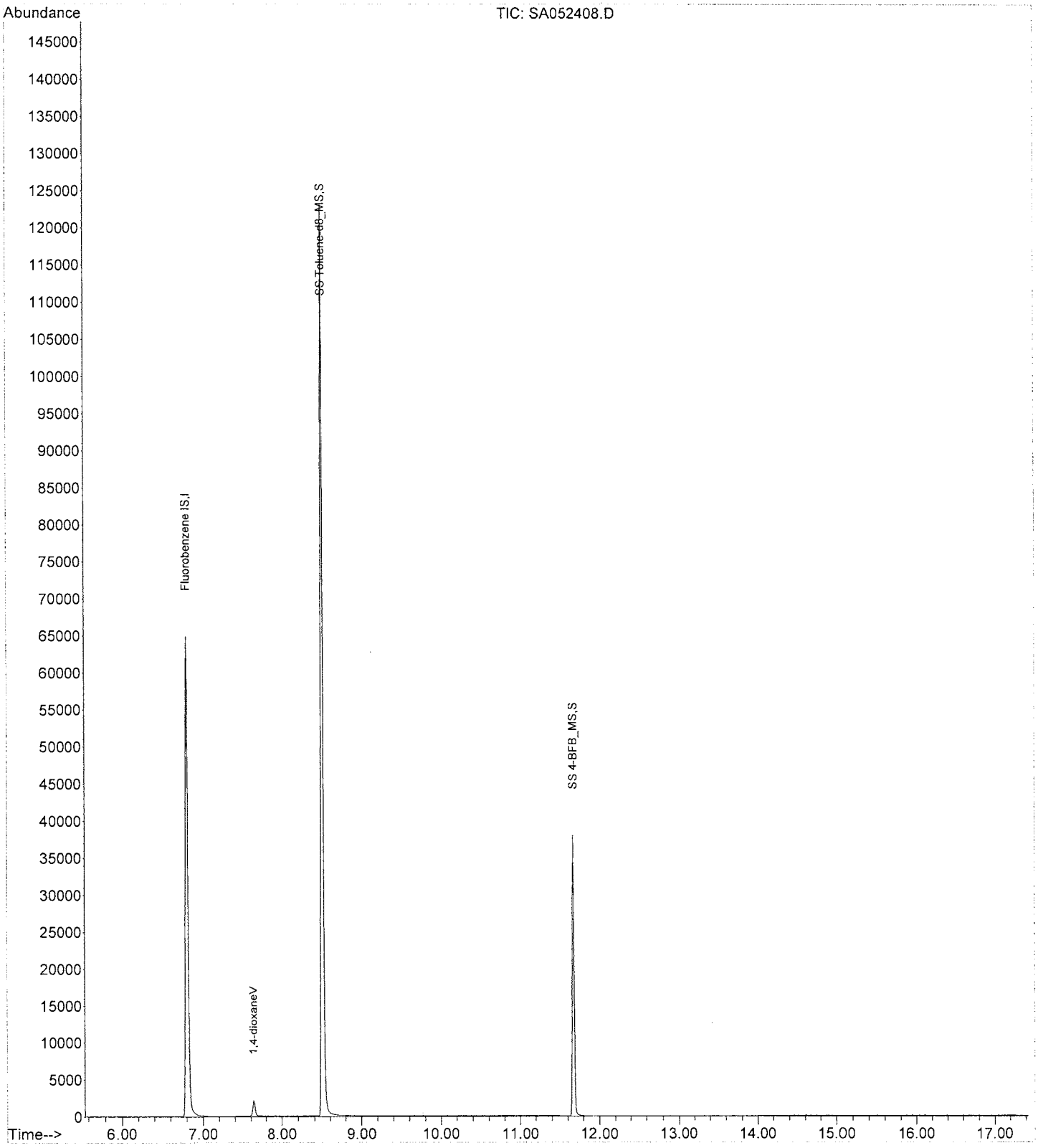
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	141523	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	139101	9.72	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.19%			
4) SS 4-BFB_MS	11.67	95	63437	10.04	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	2925	9.090	ug/L #	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:15 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

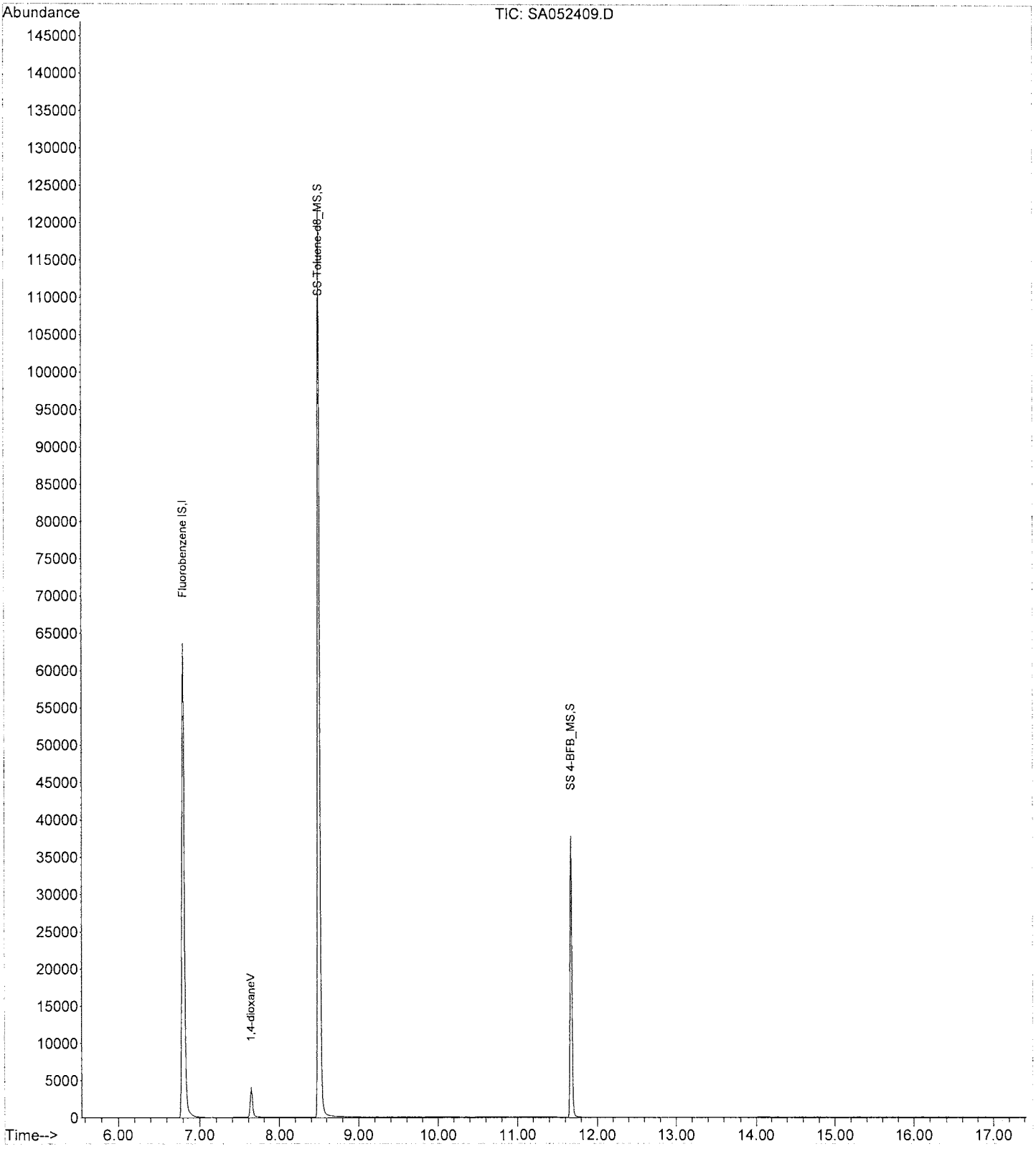
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	139806	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138348	9.78	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.85%			
4) SS 4-BFB_MS	11.67	95	63221	10.13	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.26%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	5262	16.554	ug/L #	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

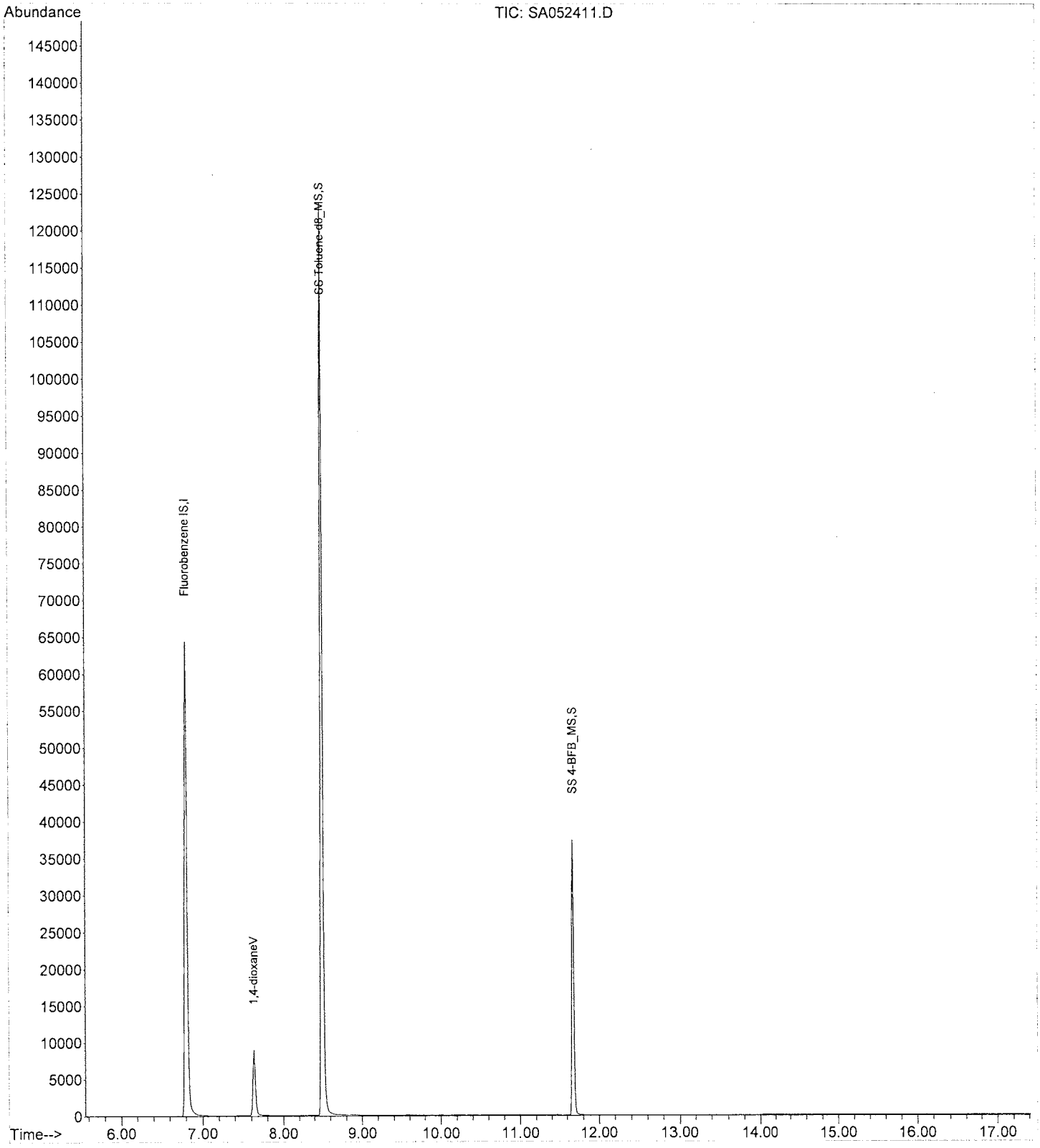
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140527	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138737	9.76	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.62%			
4) SS 4-BFB_MS	11.67	95	63685	10.15	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.48%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	11538	36.111	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:53:55 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

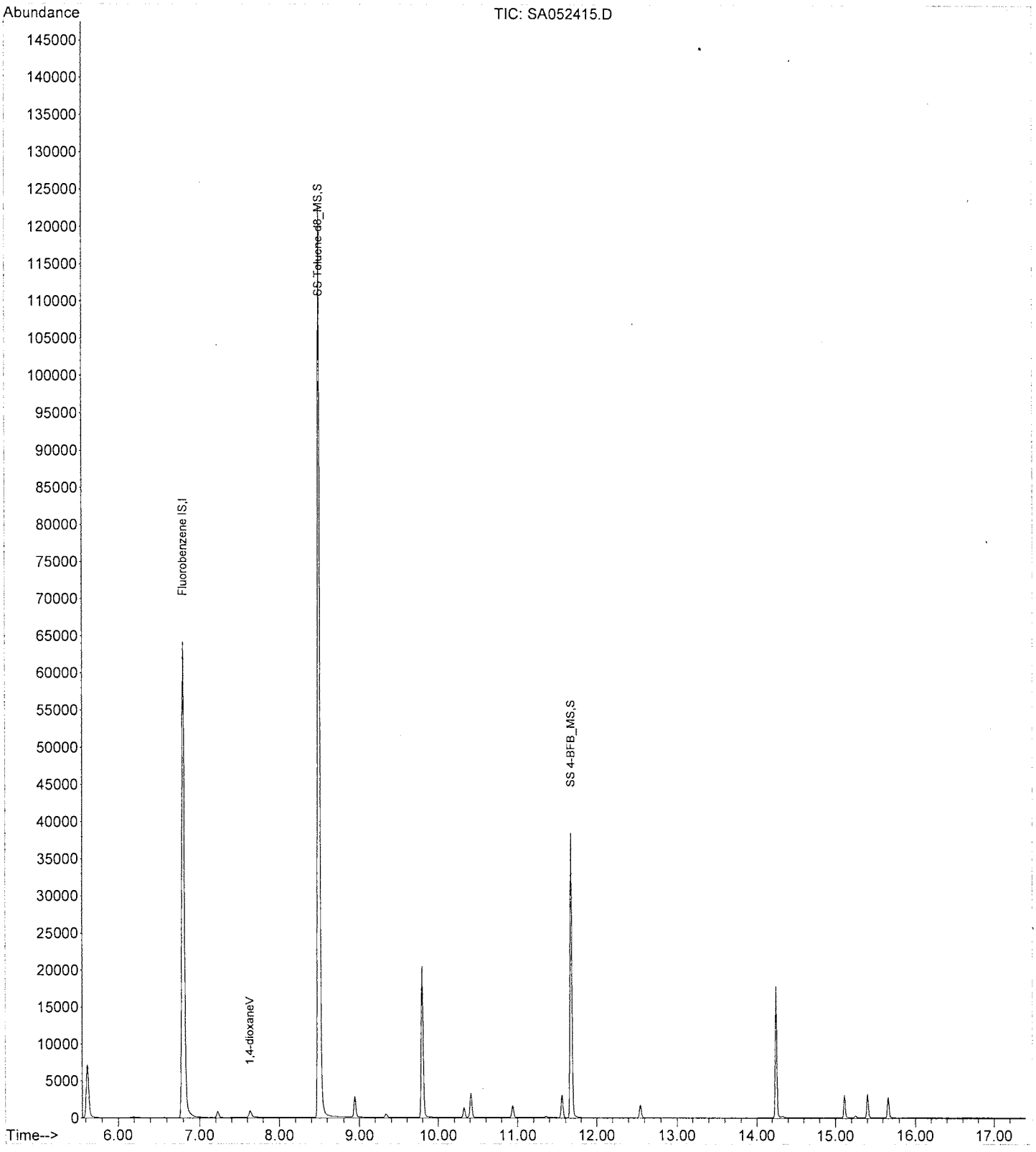
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	138992	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138030	9.94	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.44%			
4) SS 4-BFB_MS	11.67	95	63375	10.18	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.77%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1130	3.808	ug/L	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:53 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

1,4-Dioxane 8260B SIM

Sample and QC Data

IS/SS ID= V-3974
Standard ID= V-3933
LCS/LCSD and/or MS/MSD Standard ID= V-3936

Analyst: VG

Date: 8/29/17

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	5708401	BMB		✓		x1	VOC MSI			
2	2	STD5		✓			VOC SIM	25MS4		
3	3	LCS		✓			VOC			
4	4	LCSD		✓			VOC			
5	5	BLANK		✓			VOC			
6	6	113495.02		✓			VOC			
7	7	03		✓			VOC			
8	8	04		✓			VOC			
9	9	06		✓			VOC			
10	10	113543.12		✓			VOC			
11	11	14		✓			VOC			
12	12	11		✓			VOC			
13	13	08		✓			VOC			
14	14	01		✓		↓	VOC			
15	15	03		✓		x10	VOC			
16	16	STD0.25		✓			VOC			
17	17	BMB		✓			VOC MSI			
18	18	STD5		✓			VOC SIM			
19	19	LCS		✓			VOC			
20	20	LCSD		✓			VOC			
21	21	BLANK		✓		↓	VOC			
22	22	113543.04		✓		x100	VOC			
23	23	010		✓		↓	VOC			
24	24	0502		✓		x10	VOC			
25	25	0205[illegible]		✓		↓	VOC			
26	26	0205[illegible]		✓		↓	VOC			
27	27	113543.05		✓		x1	VOC			
28	28						VOC			
29	29						VOC			
30	30						VOC			
31	31						VOC			
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							VOC			

Samples removed from autosampler, order verified by [signature] 8/30/17

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\AUG12\AUG2912\SA082901.D
Tune Time : 29 Aug 2012 8:18 am

Daily Calibration File : V:\1\DATA\2012\AUG12\AUG2912\SA082902.D

				124604
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA082902.D	STD5	96	94	124604
SA082903.D	LCS5	91	93	127101
SA082904.D	LCSD5	89	88	127369
SA082905.D	BLANK	78	92	126018
SA082906.D	113495.02	105	88	126683
SA082907.D	113495.03	87	94	125207
SA082908.D	113495.04	103	93	125746
SA082909.D	113495.06	105	96	120652
SA082910.D	113593.12	91	97	119978
SA082911.D	113593.14	104	88	120360
SA082912.D	113593.11	100	86	124878
SA082913.D	113593.08	78	83	124854
SA082914.D	113593.01	88	93	125167
SA082915.D	113593.03	101	99	117112

t - fails 12hr time check * - fails criteria

Created: Thu Aug 30 09:26:14 2012 VOAMS2

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\AUG12\AUG2912\SA082917.D
Tune Time : 29 Aug 2012 9:35 pm

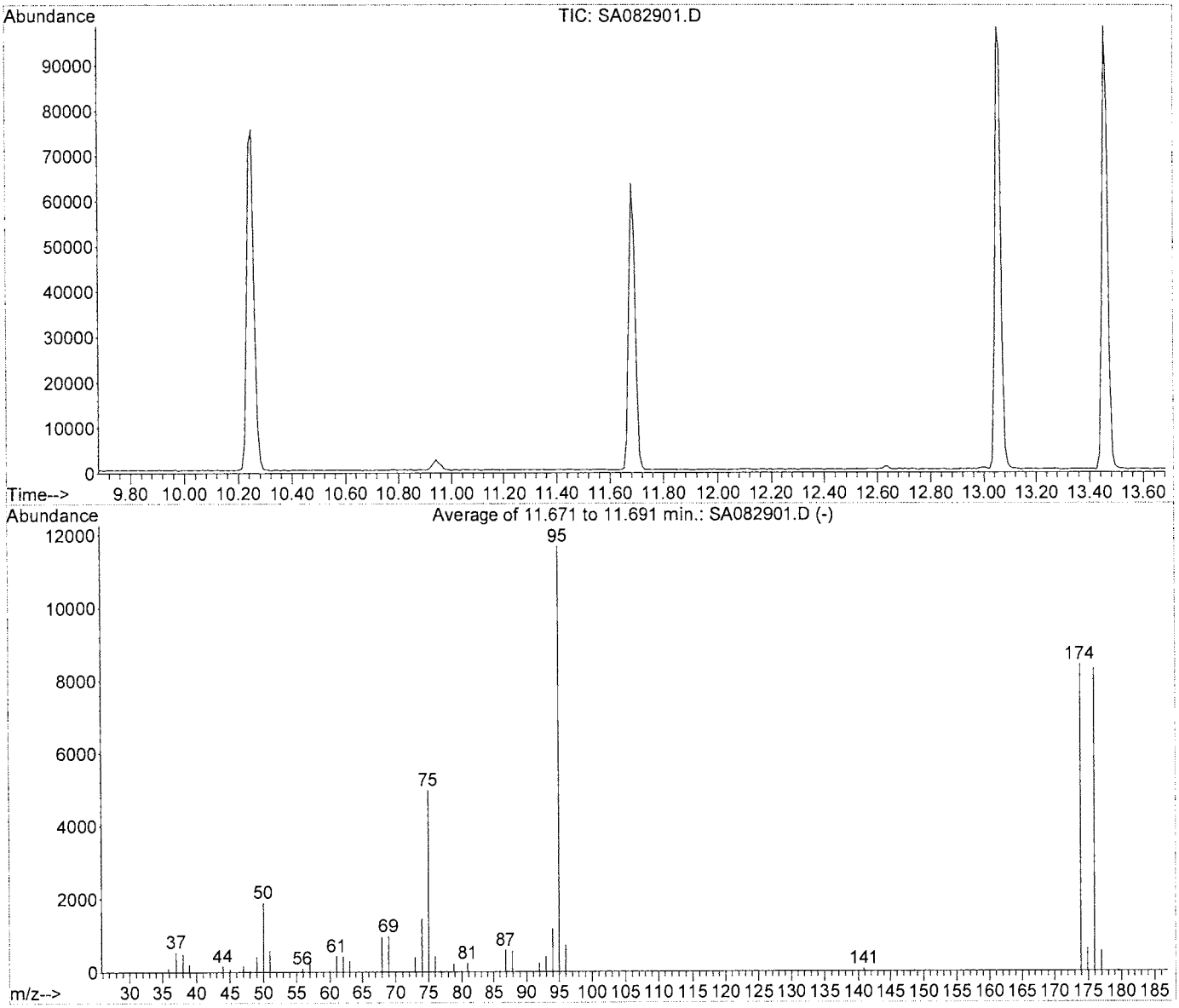
Daily Calibration File : V:\1\DATA\2012\AUG12\AUG2912\SA082918.D

				121918
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA082918.D	STD5	85	86	121918
SA082919.D	LCS5	98	91	124182
SA082920.D	LCSD5	103	88	116173
SA082921.D	BLANK	100	98	110707
SA082922.D	113593.04	91	100	115595
SA082923.D	113593.06	96	99	115455
SA082924.D	113593.02	106	101	112343
SA082925.D	113593.02M	85	93	124311
SA082926.D	113593.02M	91	93	122896
SA082927.D	113593.05	88	97	119831

t - fails 12hr time check * - fails criteria

Created: Thu Aug 30 09:27:09 2012 VOAMS2

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082901.D Vial: 1
Acq On : 29 Aug 2012 8:18 am Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



AutoFind: Scans 621, 622, 623; Background Corrected with Scan 616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	1907	PASS
75	95	30	60	42.7	4992	PASS
95	95	100	100	100.0	11688	PASS
96	95	5	9	6.2	725	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.1	8432	PASS
175	174	5	9	7.4	623	PASS
176	174	95	101	98.5	8309	PASS
177	176	5	9	6.8	563	PASS

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082902.D Vial: 2
Acq On : 29 Aug 2012 9:08 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	88	0.02
2		1,4-dioxaneV	5.000	5.116	-2.3	90	0.03
3	S	SS Toluene-d8_MS	10.000	9.593	4.1	86	0.02
4	S	SS 4-BFB_MS	10.000	9.385	6.2	83	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA082902.D 2SIM0524.M Wed Aug 29 10:37:06 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082902.D Vial: 2
Acq On : 29 Aug 2012 9:08 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 10:36:00 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

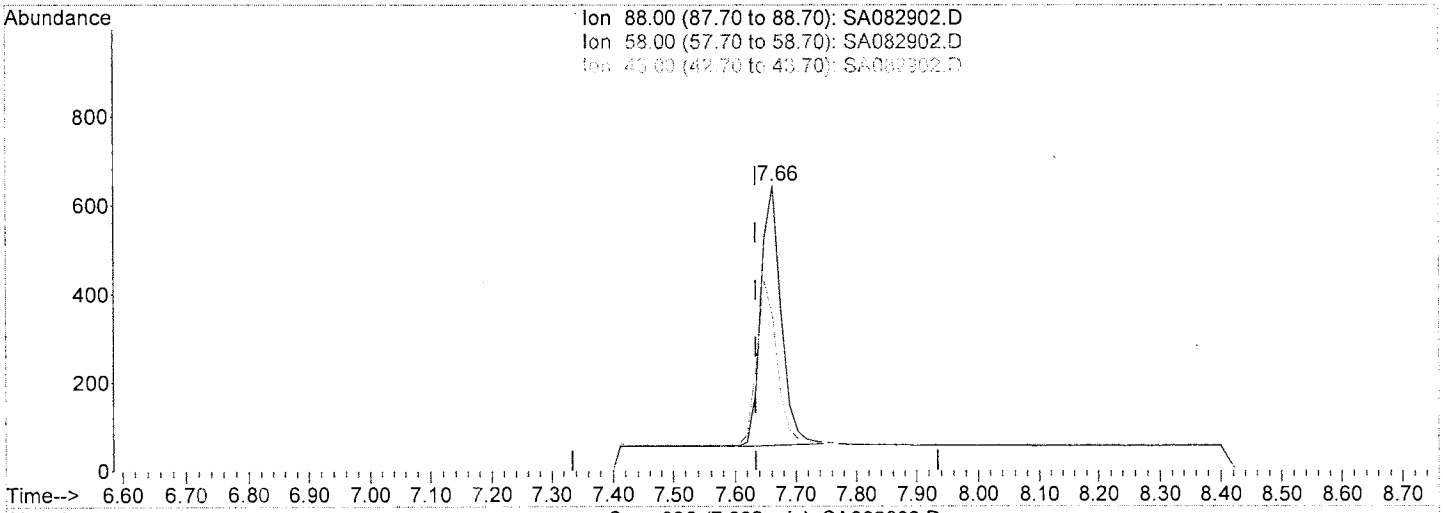
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	124604	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	119373	9.59	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.93%			
4) SS 4-BFB_MS	11.69	95	52393	9.38	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.85%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1361m	5.116	ug/L	

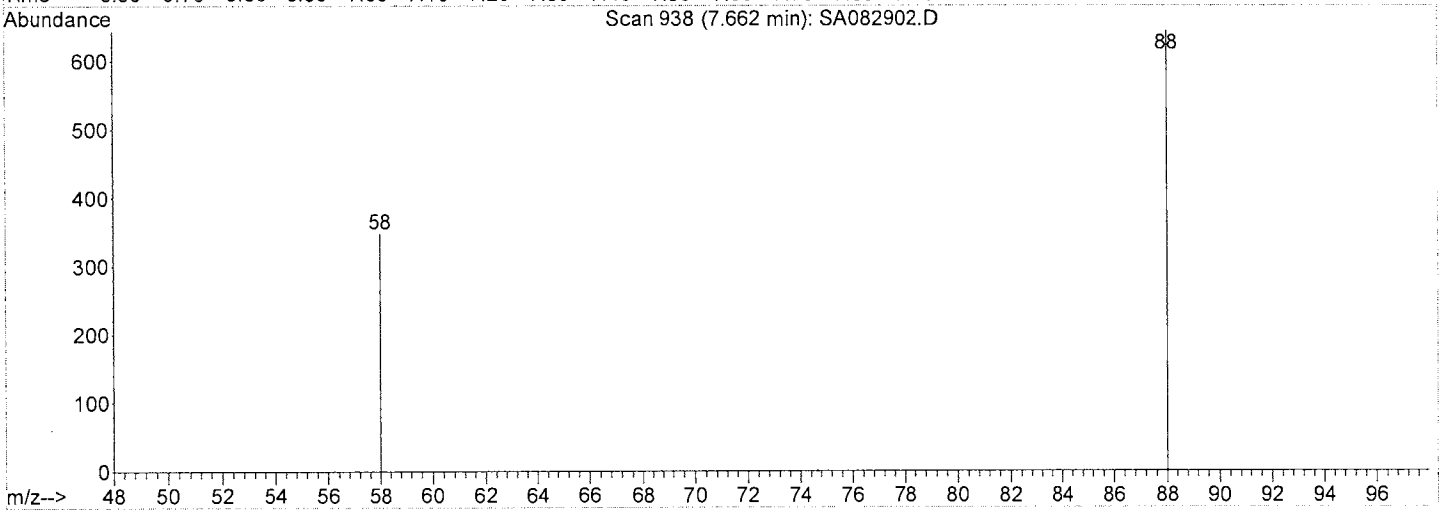
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082902.D Vial: 2
Acq On : 29 Aug 2012 9:08 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 10:35 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA082902.D

(2) 1,4-dioxaneV

7.66min (+0.028) 5.12ug/L m

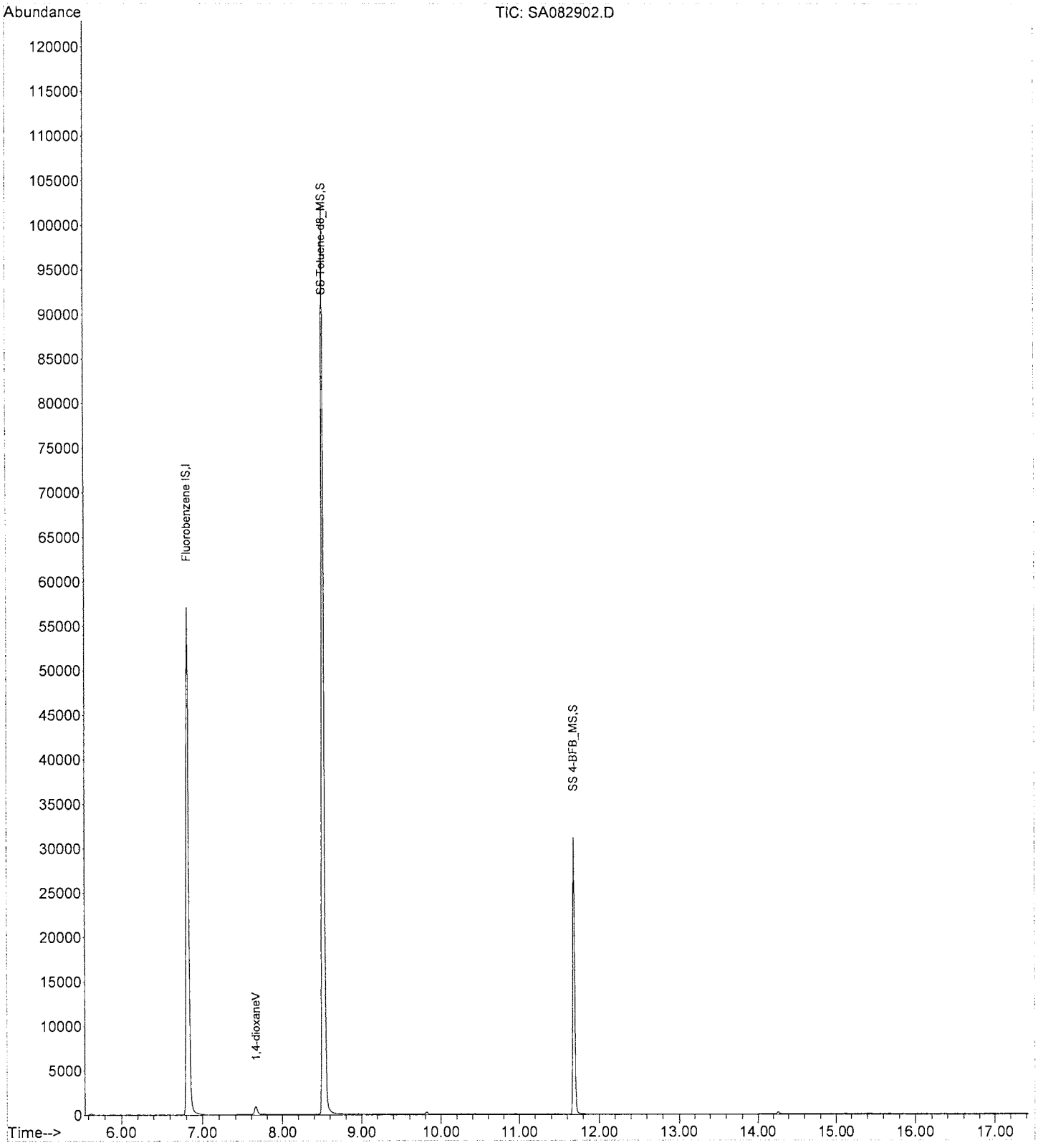
response 1361

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	54.04
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082902.D Vial: 2
Acq On : 29 Aug 2012 9:08 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 10:35 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082903.D Vial: 3
Acq On : 29 Aug 2012 9:59 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 10:37:38 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

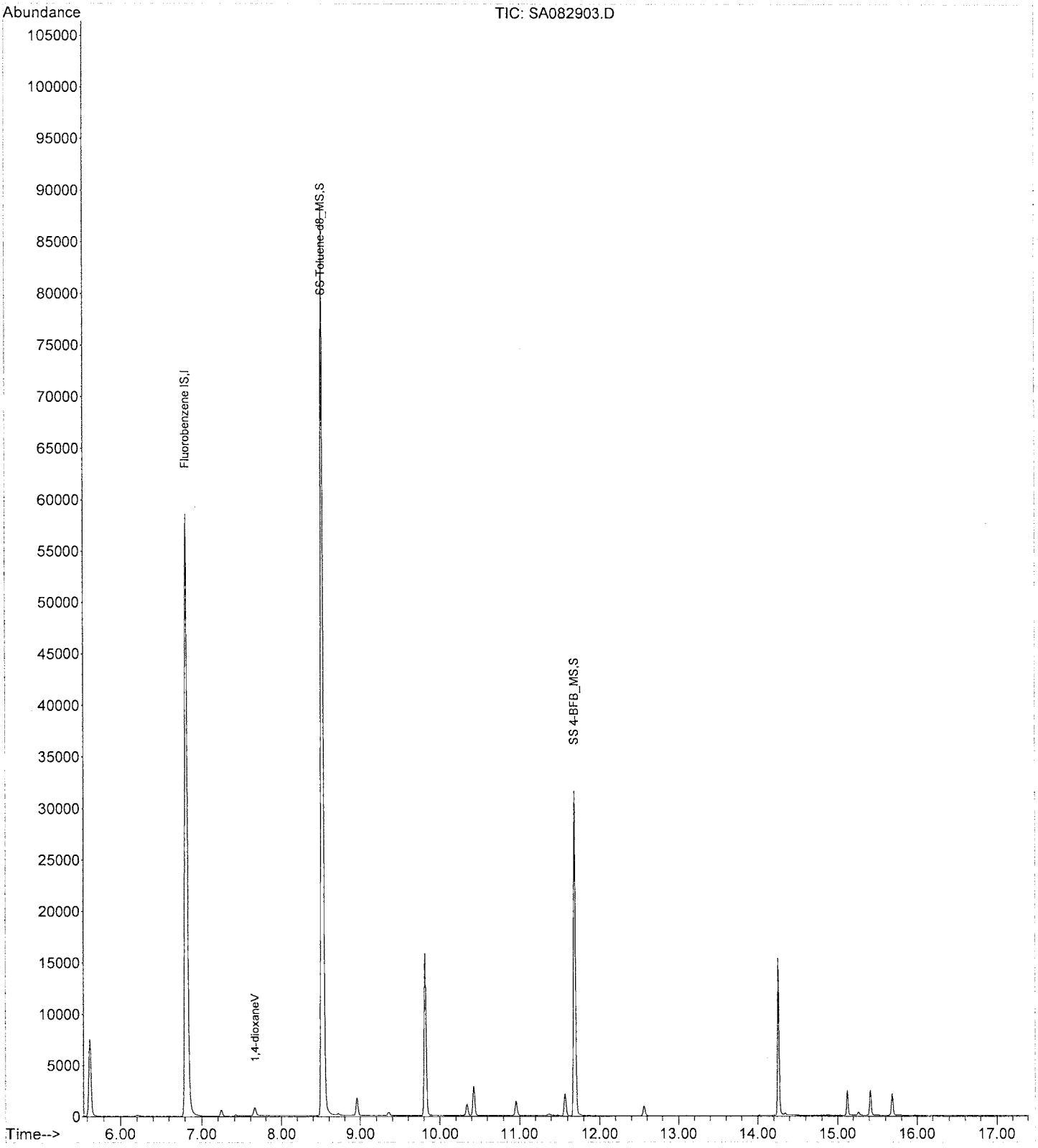
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	127101	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	115670	9.11	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.13%			
4) SS 4-BFB_MS	11.69	95	52728	9.26	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.59%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1162	4.282	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082903.D Vial: 3
Acq On : 29 Aug 2012 9:59 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 10:37 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082904.D Vial: 4
Acq On : 29 Aug 2012 10:48 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 11:59:22 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

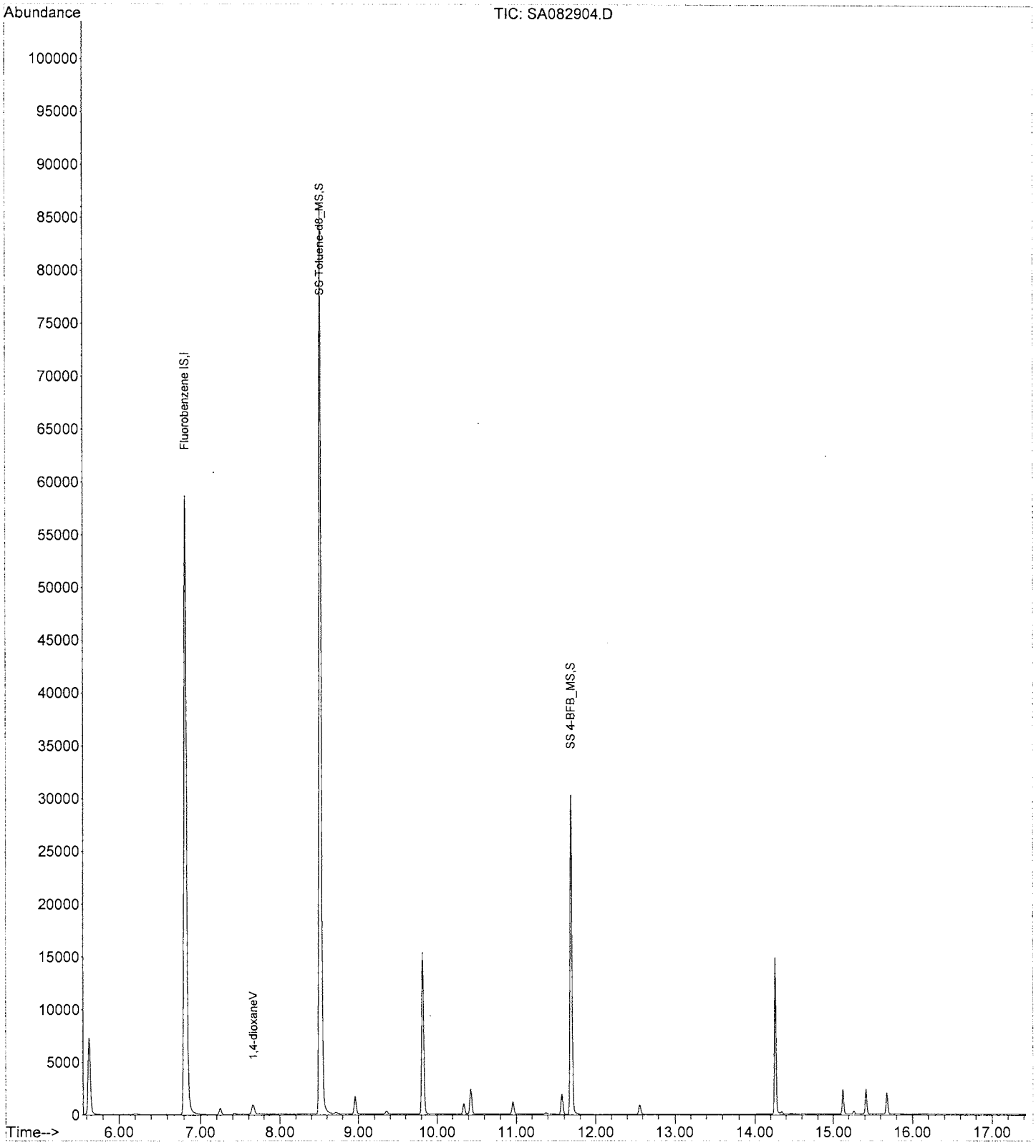
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	127369	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	113014	8.88	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.85%			
4) SS 4-BFB_MS	11.69	95	50420	8.84	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.35%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1281	4.711	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082904.D Vial: 4
Acq On : 29 Aug 2012 10:48 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 11:58 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082905.D Vial: 5
Acq On : 29 Aug 2012 11:38 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 11:59:34 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	126018	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	98040	7.79	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 77.90%			
4) SS 4-BFB_MS	11.69	95	52184	9.24	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.42%			

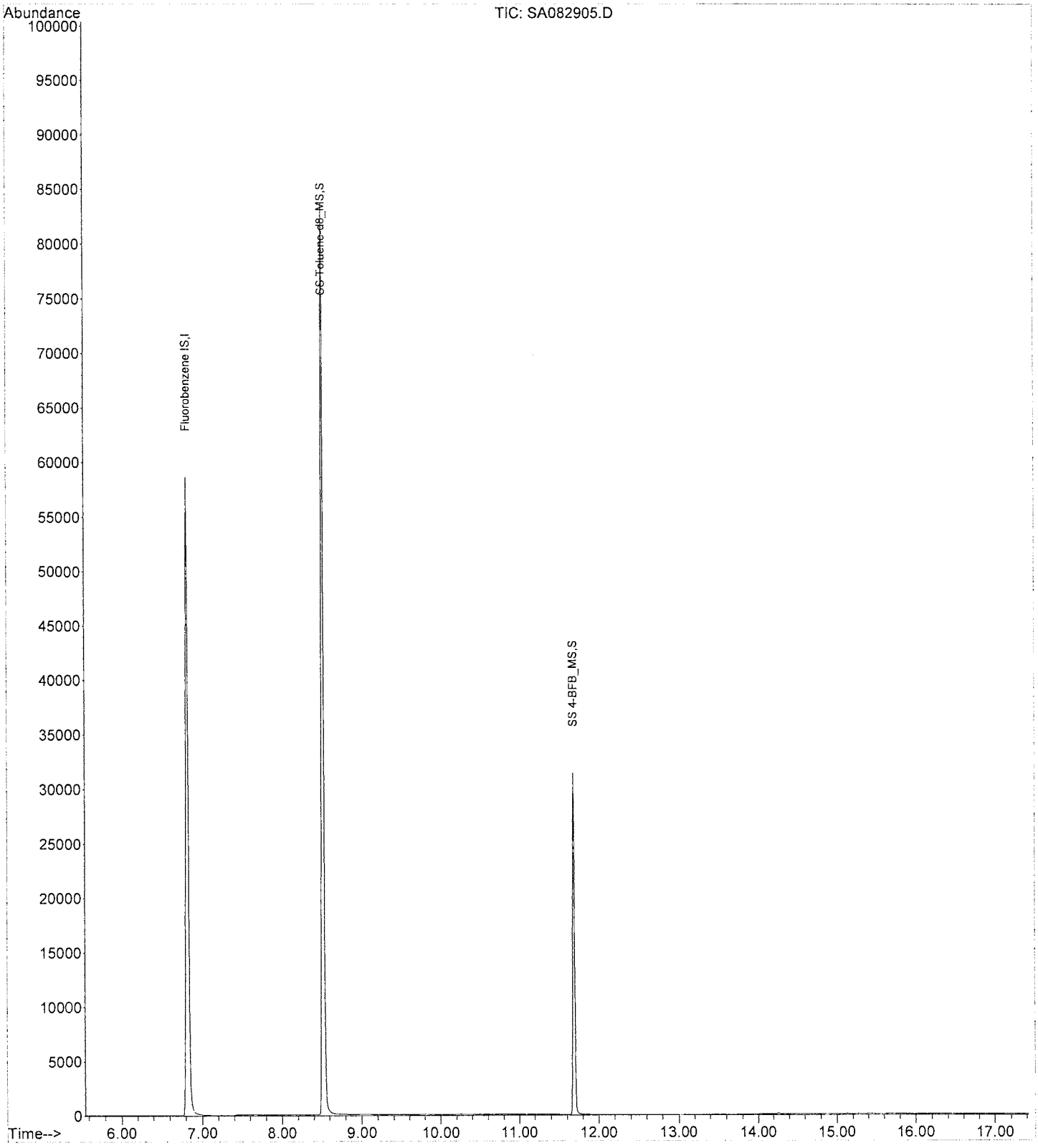
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082905.D Vial: 5
Acq On : 29 Aug 2012 11:38 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 29 11:59 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082910.D Vial: 10
Acq On : 29 Aug 2012 3:48 pm Operator: VG
Sample : 113593.12 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:12 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	119978	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	109256	9.12	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.18%			
4) SS 4-BFB_MS	11.69	95	51966	9.67	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.67%			

Target Compounds Qvalue

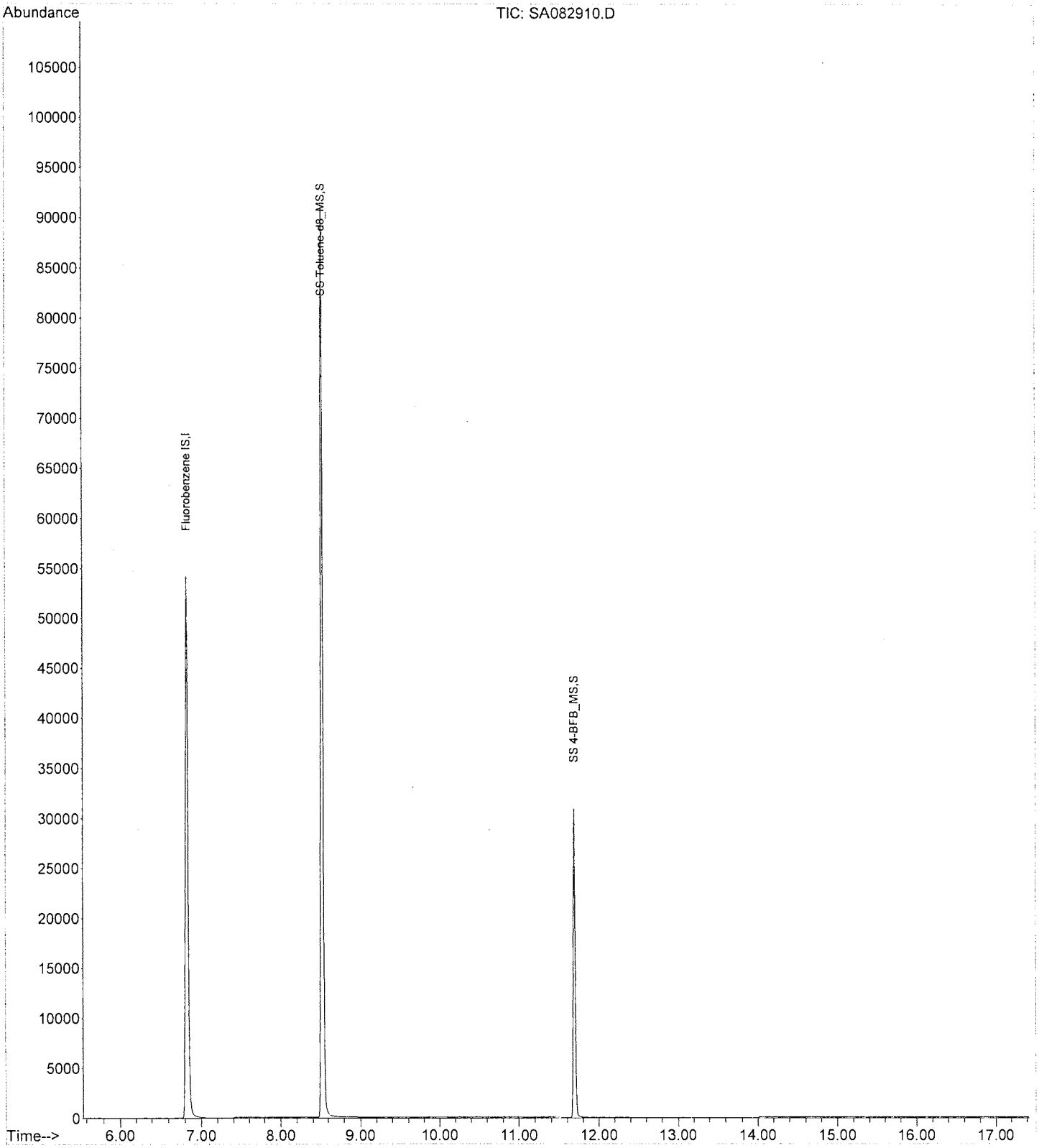
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082910.D Vial: 10
Acq On : 29 Aug 2012 3:48 pm Operator: VG
Sample : 113593.12 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082911.D Vial: 11
Acq On : 29 Aug 2012 4:37 pm Operator: VG
Sample : 113593.14 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:15 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	120360	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.53	98	124604	10.37	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.66%			
4) SS 4-BFB_MS	11.69	95	47238	8.76	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.60%			

Target Compounds Qvalue

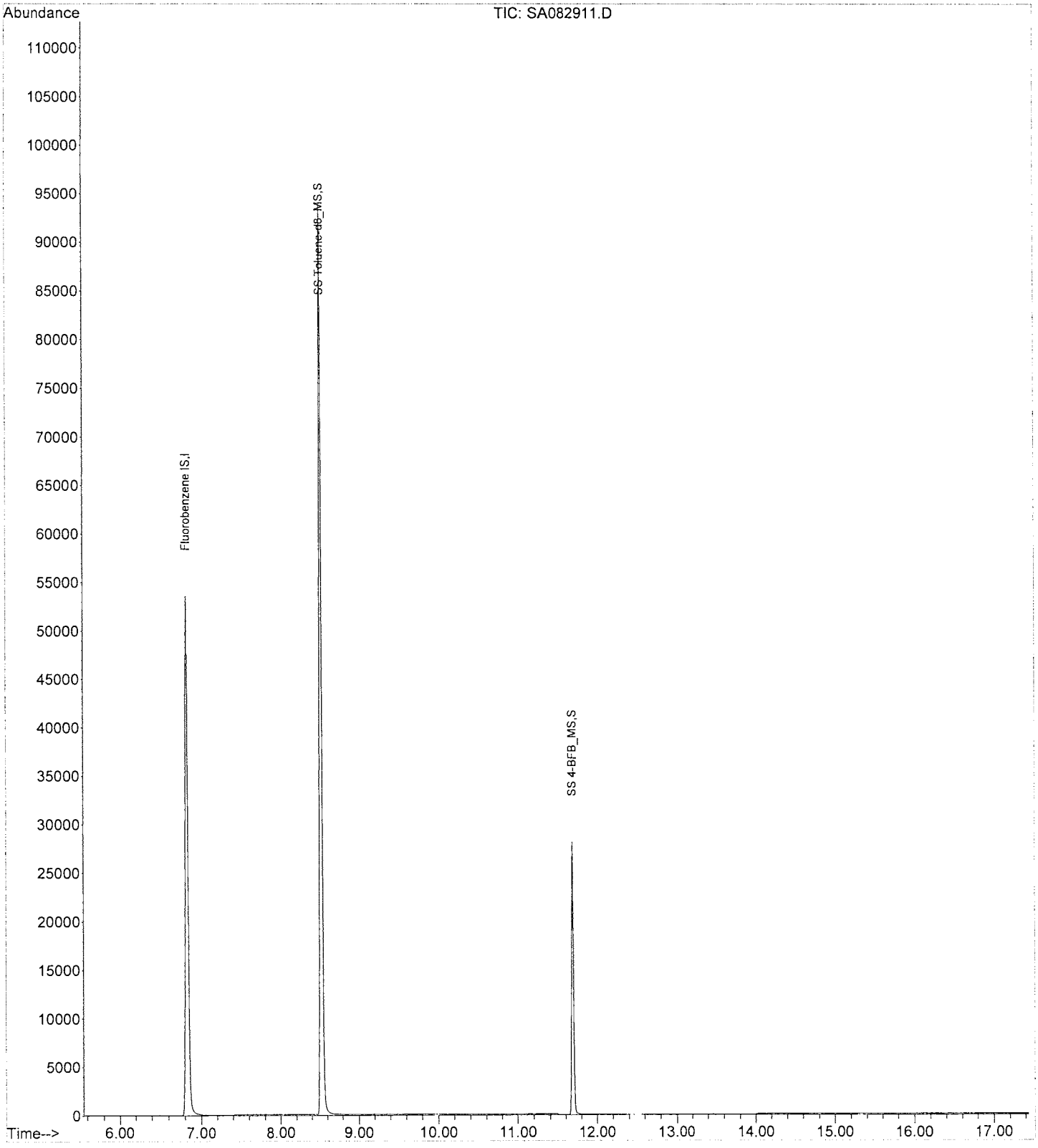
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082911.D Vial: 11
Acq On : 29 Aug 2012 4:37 pm Operator: VG
Sample : 113593.14 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082912.D Vial: 12
Acq On : 29 Aug 2012 5:27 pm Operator: VG
Sample : 113593.11 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:18 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	124878	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	124299	9.97	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.67%			
4) SS 4-BFB_MS	11.69	95	48057	8.59	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.89%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	6	0.023	ug/L #	27

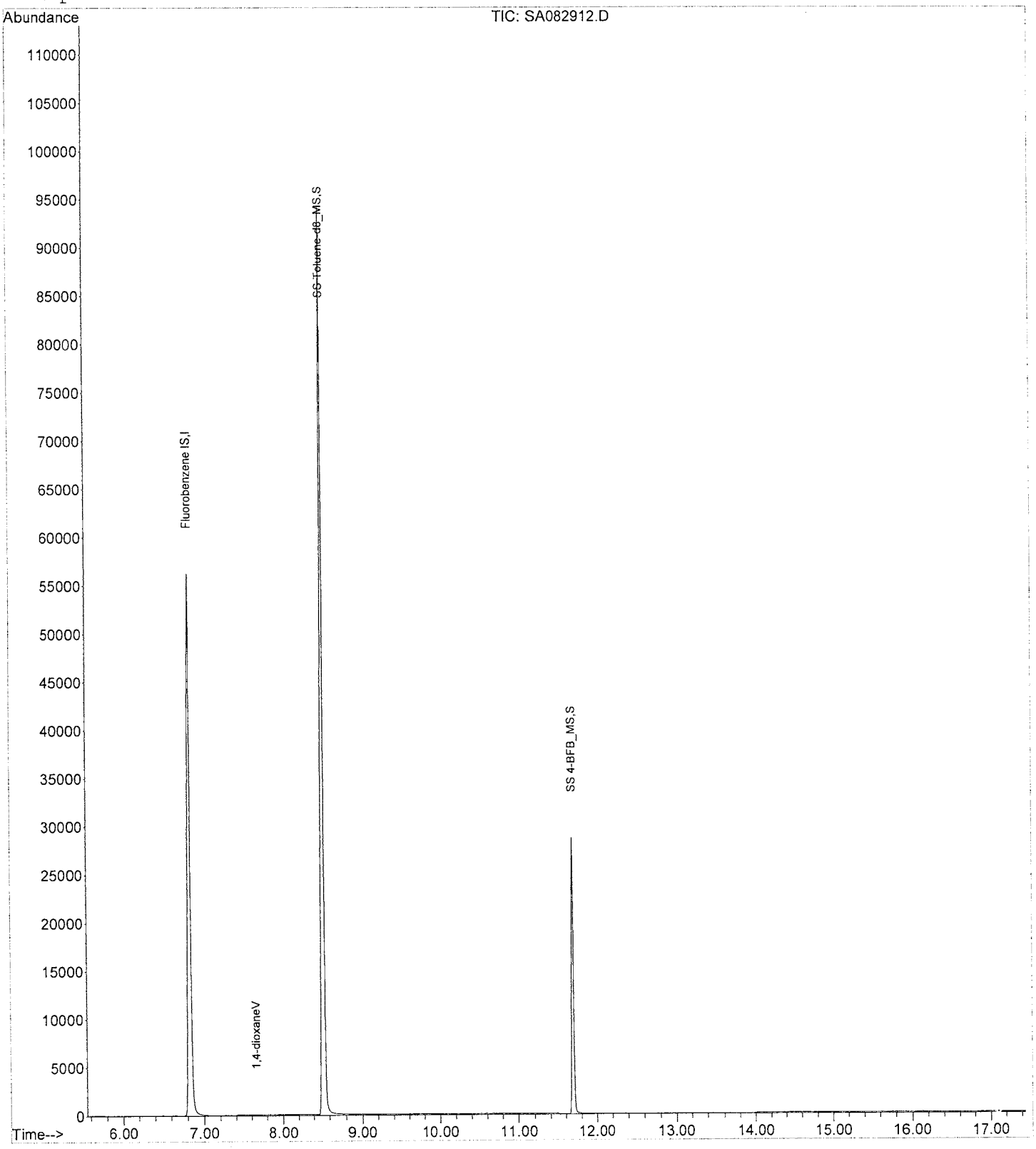
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082912.D Vial: 12
Acq On : 29 Aug 2012 5:27 pm Operator: VG
Sample : 113593.11 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082913.D Vial: 13
Acq On : 29 Aug 2012 6:16 pm Operator: VG
Sample : 113593.08 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:21 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	124854	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	97024	7.78	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 77.81%			
4) SS 4-BFB_MS	11.69	95	46426	8.30	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.99%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	275	1.032	ug/L	97

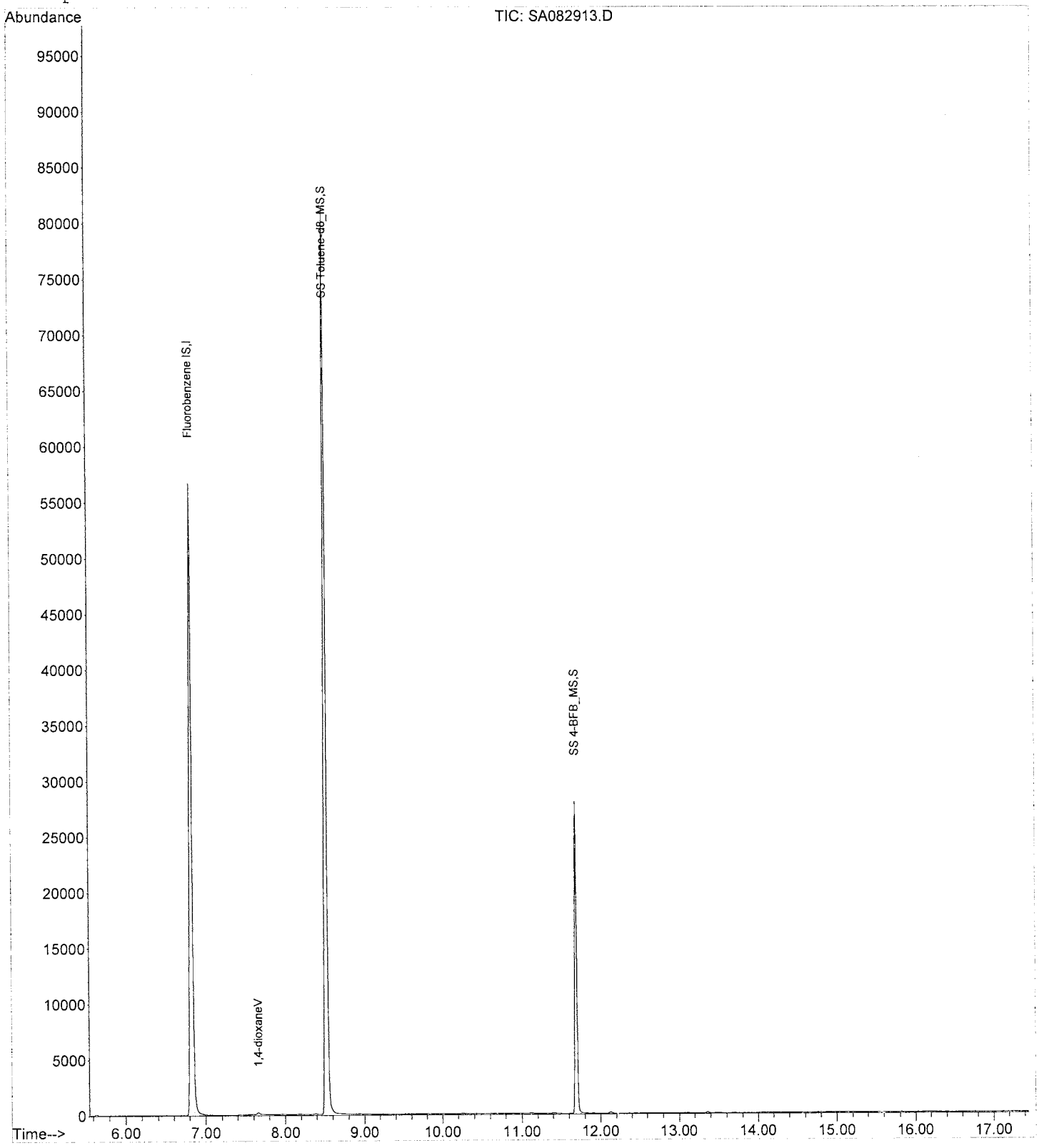
8/30/17

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082913.D Vial: 13
Acq On : 29 Aug 2012 6:16 pm Operator: VG
Sample : 113593.08 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082914.D Vial: 14
Acq On : 29 Aug 2012 7:06 pm Operator: VG
Sample : 113593.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:24 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	125167	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.52	98	109629	8.77 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.70%		
4) SS 4-BFB_MS	11.69	95	52053	9.28 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.82%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	3360	12.573 ug/L	96

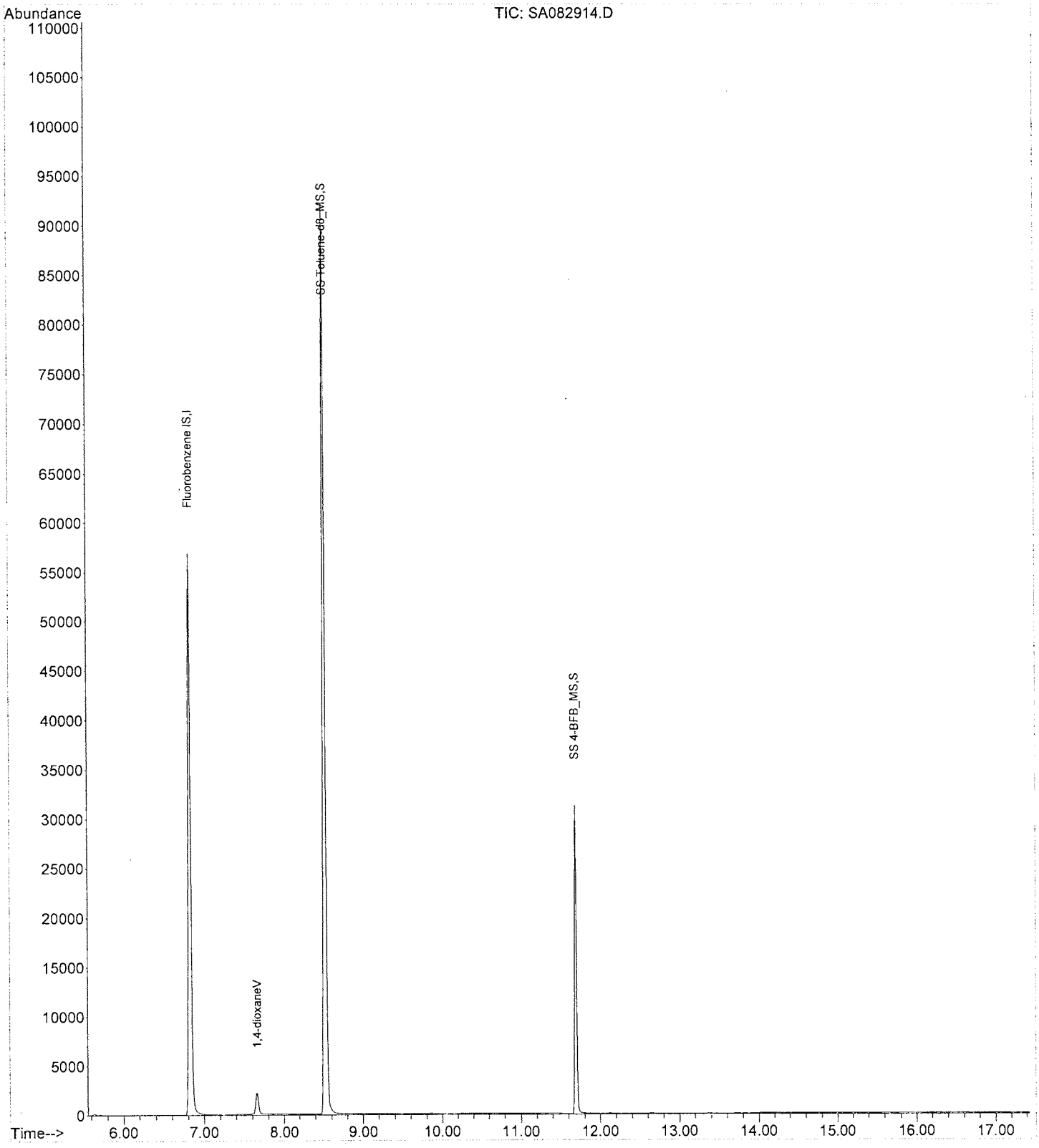
8/30/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082914.D Vial: 14
Acq On : 29 Aug 2012 7:06 pm Operator: VG
Sample : 113593.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082915.D Vial: 15
Acq On : 29 Aug 2012 7:56 pm Operator: VG
Sample : 113593.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:27 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	117112	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.52	98	118471	10.13 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.29%		
4) SS 4-BFB_MS	11.69	95	51787	9.87 ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	2455	~~9.819~~ ug/L	99

6.71 Improper integration

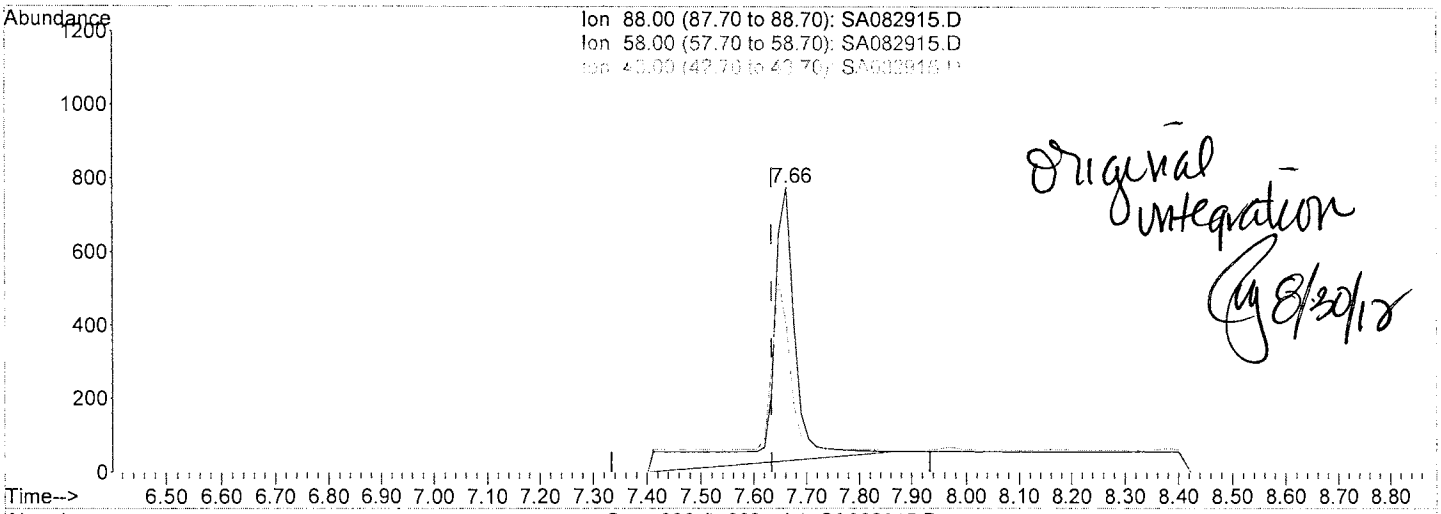
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

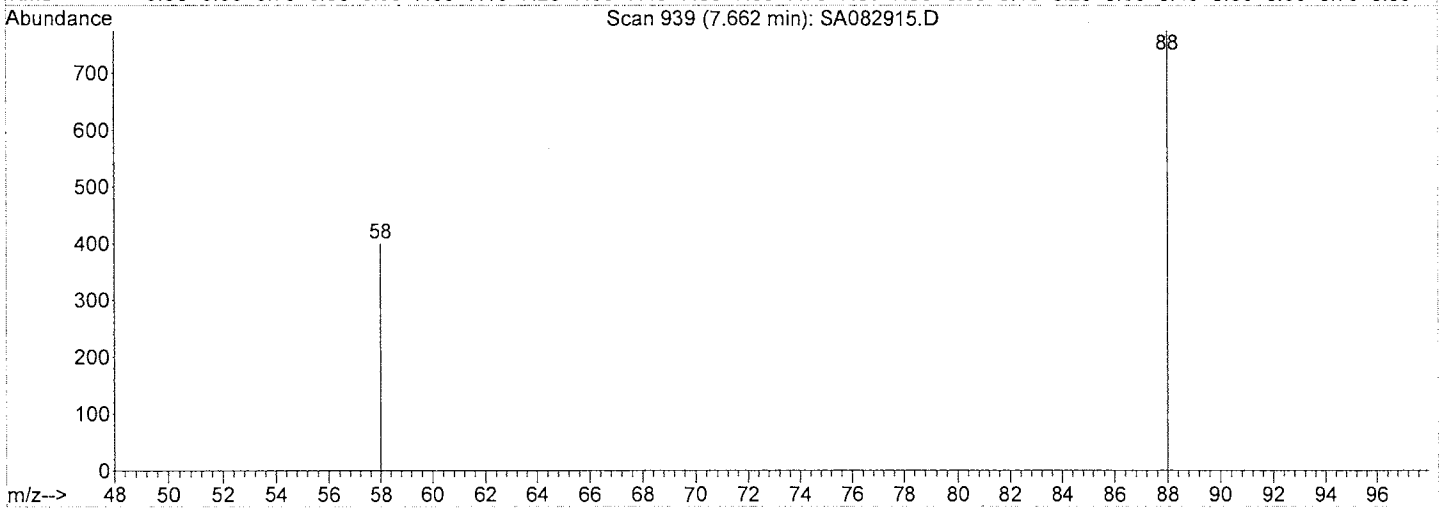
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082915.D Vial: 15
Acq On : 29 Aug 2012 7:56 pm Operator: VG
Sample : 113593.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



Original Integration
8/30/12



TIC: SA082915.D

(2) 1,4-dioxaneV

7.66min (+0.028) 9.82ug/L

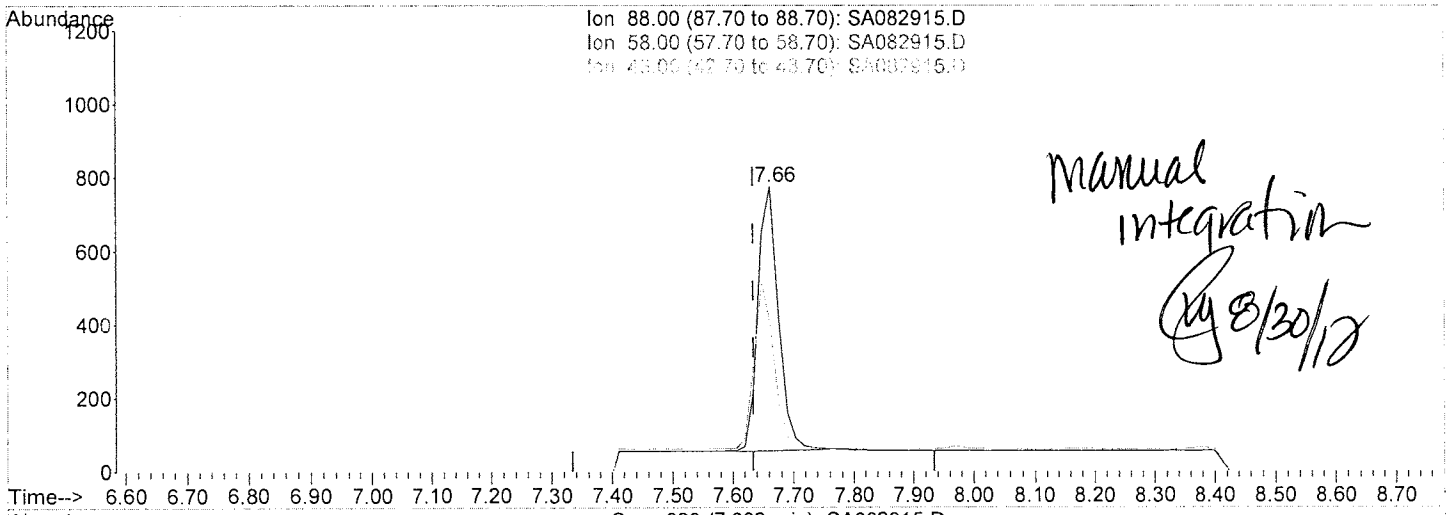
response 2455

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	51.61
43.00	0.00	0.00
0.00	0.00	0.00

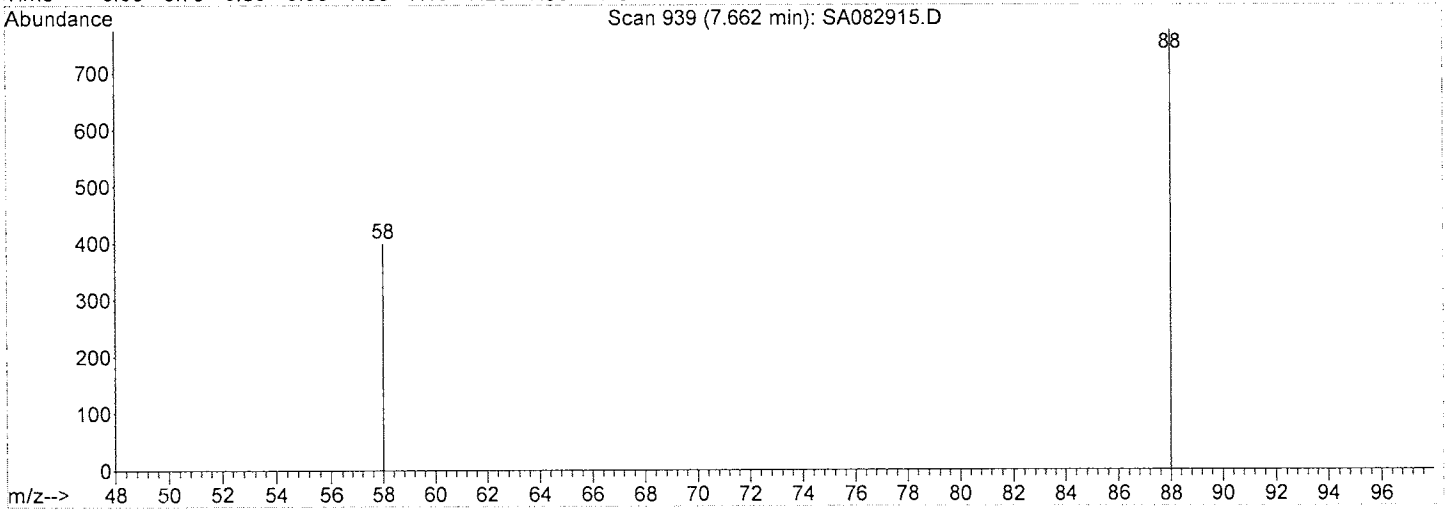
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082915.D Vial: 15
Acq On : 29 Aug 2012 7:56 pm Operator: VG
Sample : 113593.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 12:12 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



manual integration
8/30/12



TIC: SA082915.D

(2) 1,4-dioxaneV

7.66min (+0.028) 6.71ug/L m

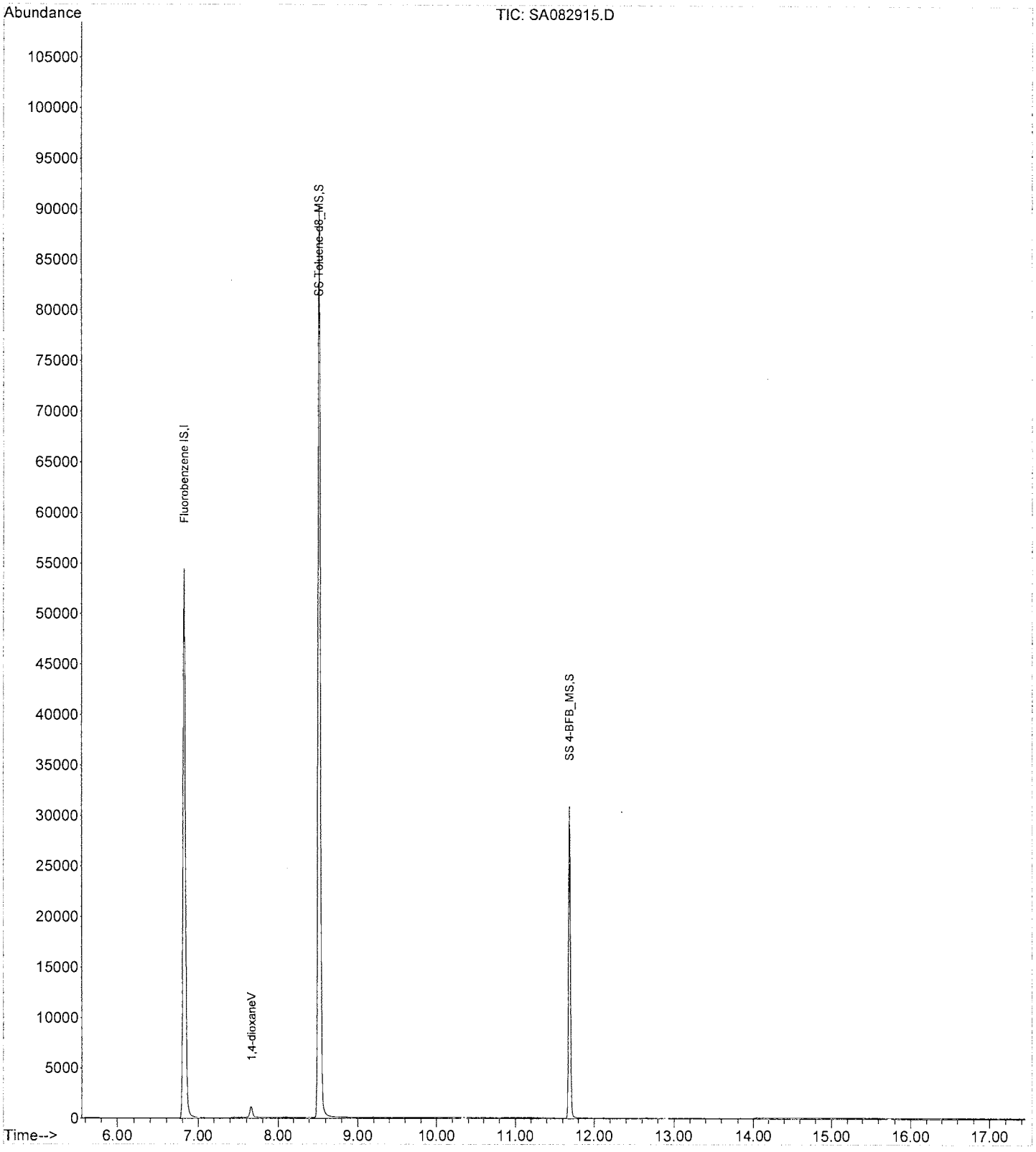
response 1678

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	51.61
43.00	0.00	0.00
0.00	0.00	0.00

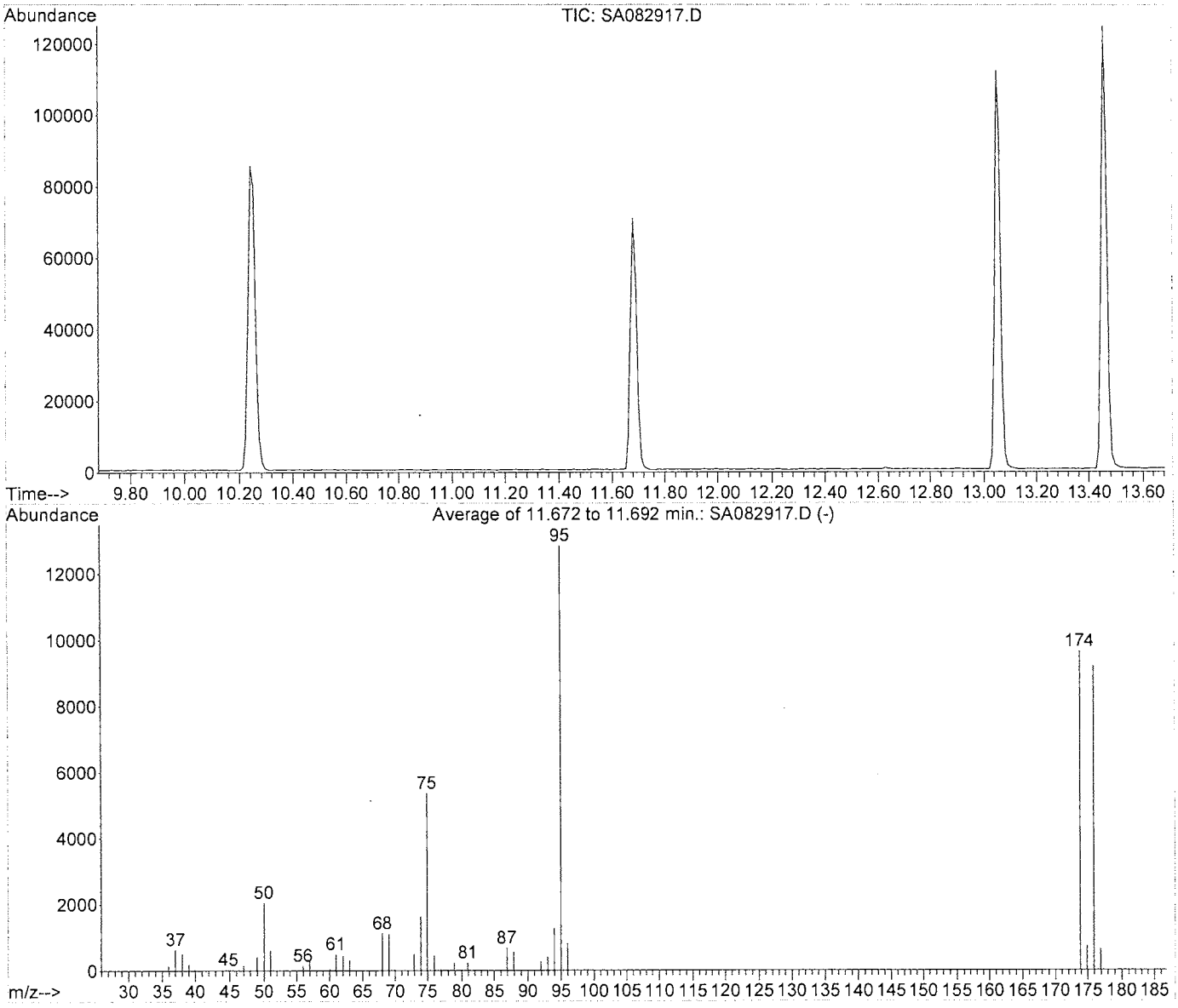
Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082915.D Vial: 15
Acq On : 29 Aug 2012 7:56 pm Operator: VG
Sample : 113593.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082917.D Vial: 17
Acq On : 29 Aug 2012 9:35 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.672 to 11.692 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	2058	PASS
75	95	30	60	41.7	5366	PASS
95	95	100	100	100.0	12859	PASS
96	95	5	9	6.4	817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.0	9646	PASS
175	174	5	9	7.6	732	PASS
176	174	95	101	95.3	9197	PASS
177	176	5	9	7.0	647	PASS

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082918.D Vial: 18
Acq On : 29 Aug 2012 10:25 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	86	0.02
2		1,4-dioxaneV	5.000	4.560	8.8	79	0.03
3	S	SS Toluene-d8_MS	10.000	8.456	15.4	74	0.02
4	S	SS 4-BFB_MS	10.000	8.552	14.5	74	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082918.D Vial: 18
Acq On : 29 Aug 2012 10:25 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:17:58 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

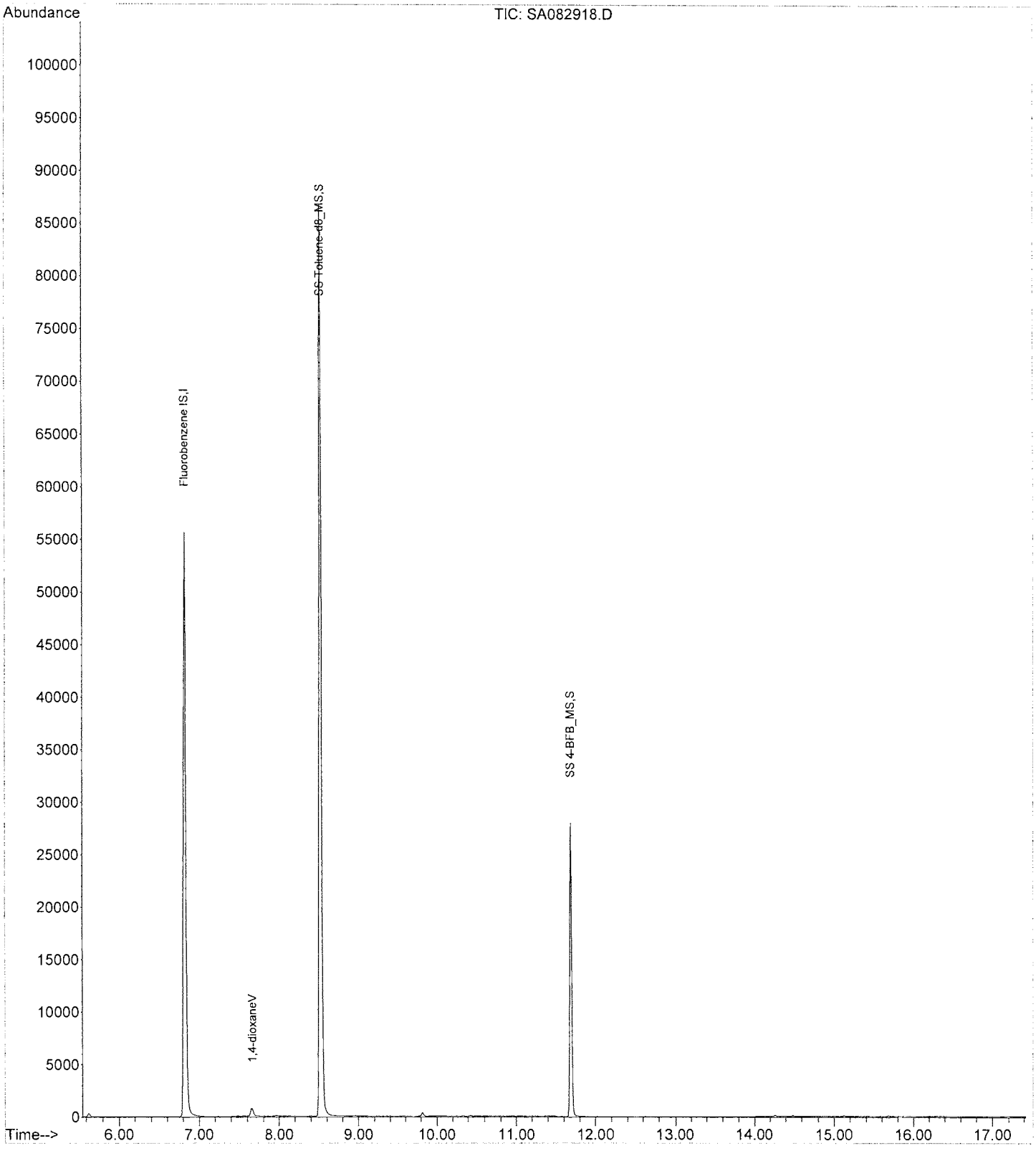
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	121918	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	102958	8.46	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.56%			
4) SS 4-BFB_MS	11.69	95	46713	8.55	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.52%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1187	4.560	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082918.D Vial: 18
Acq On : 29 Aug 2012 10:25 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:17 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082919.D Vial: 19
Acq On : 29 Aug 2012 11:15 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:18:28 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

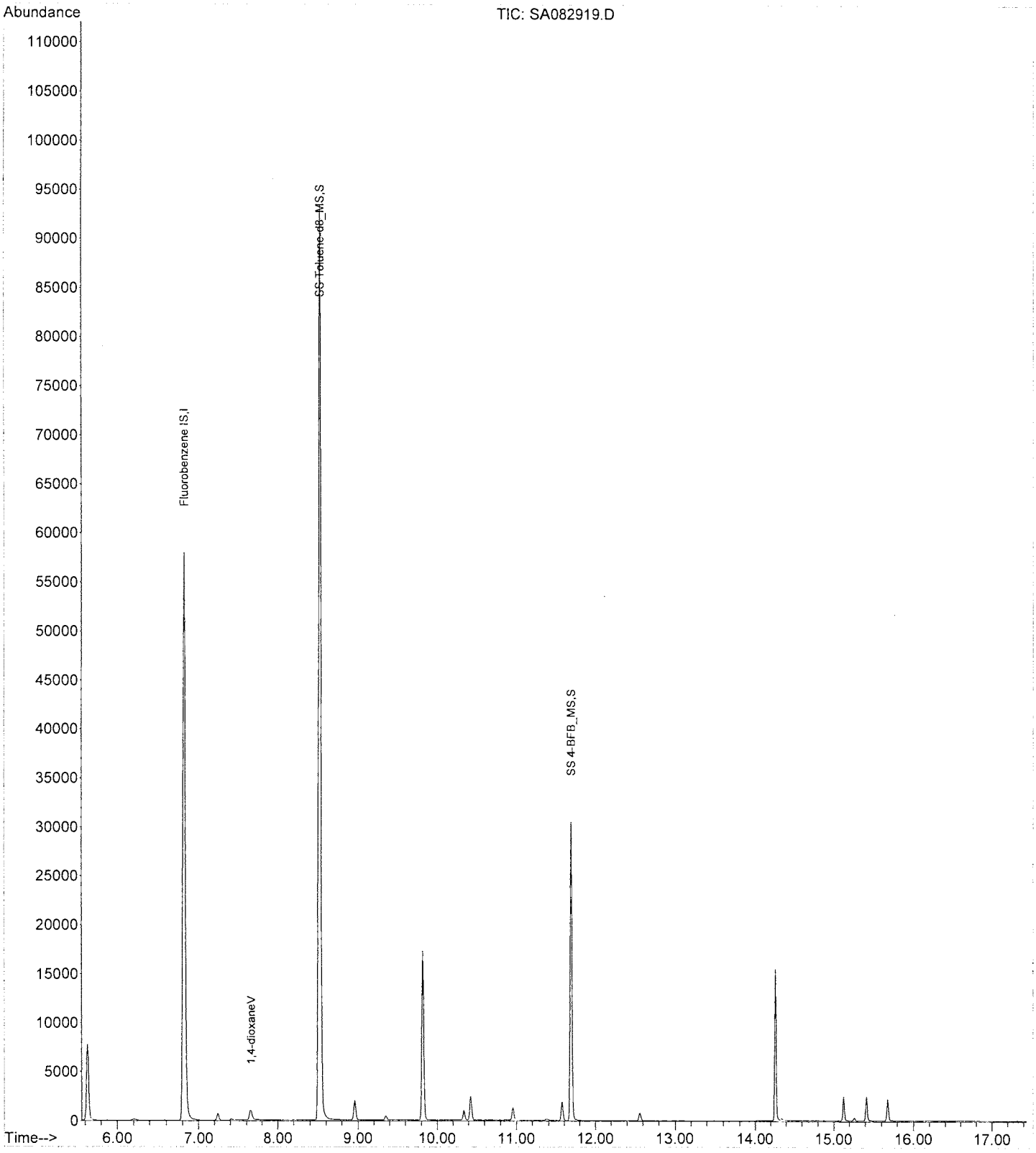
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	124182	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	121309	9.78	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.82%			
4) SS 4-BFB_MS	11.69	95	50549	9.09	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.85%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1456m	5.492	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082919.D Vial: 19
Acq On : 29 Aug 2012 11:15 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:27 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082920.D Vial: 20
Acq On : 30 Aug 2012 12:05 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:18:57 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

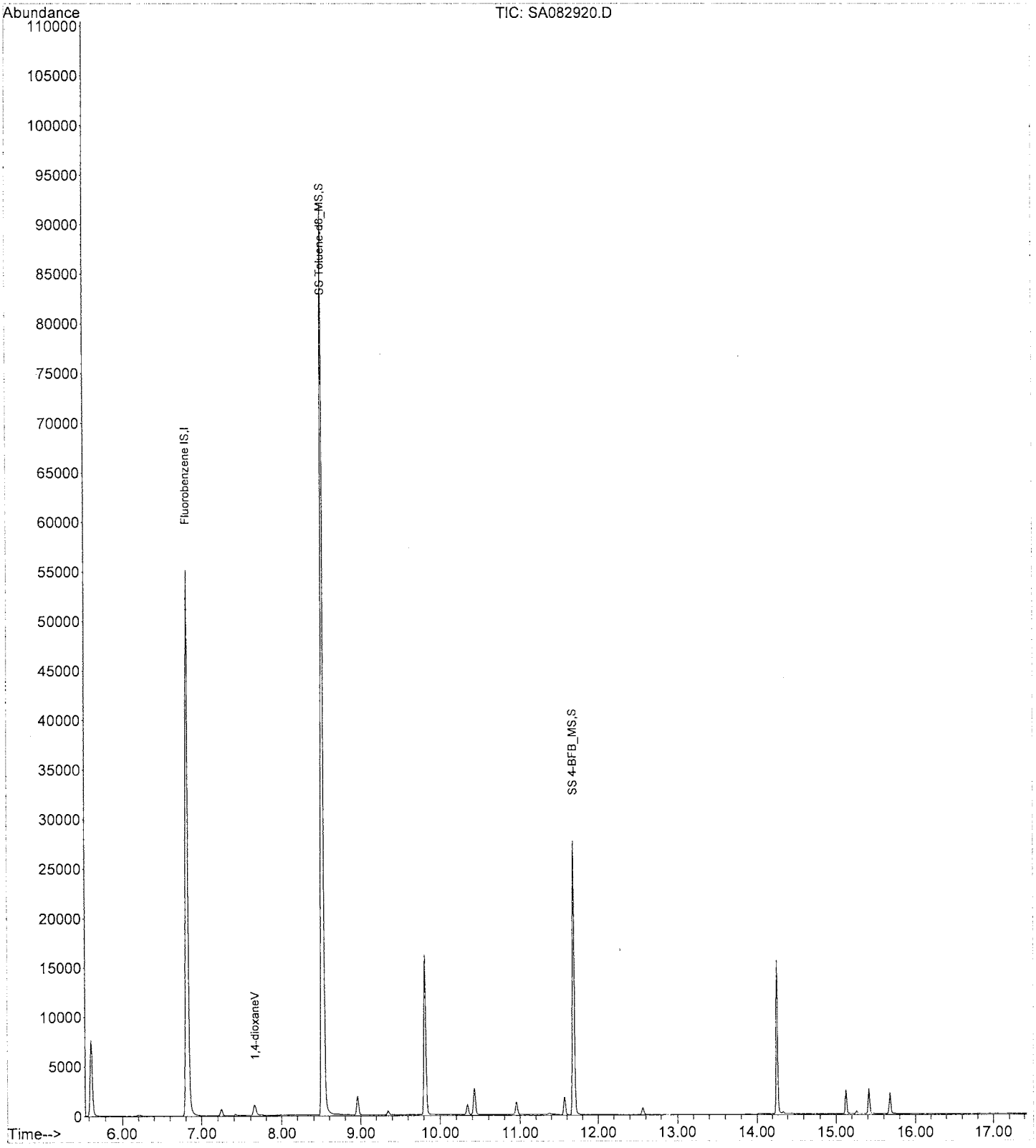
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	116173	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	119596	10.31	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.08%			
4) SS 4-BFB_MS	11.69	95	45779	8.79	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.95%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1477m	5.955	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082920.D Vial: 20
Acq On : 30 Aug 2012 12:05 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:27 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082921.D Vial: 21
Acq On : 30 Aug 2012 12:54 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:19:17 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

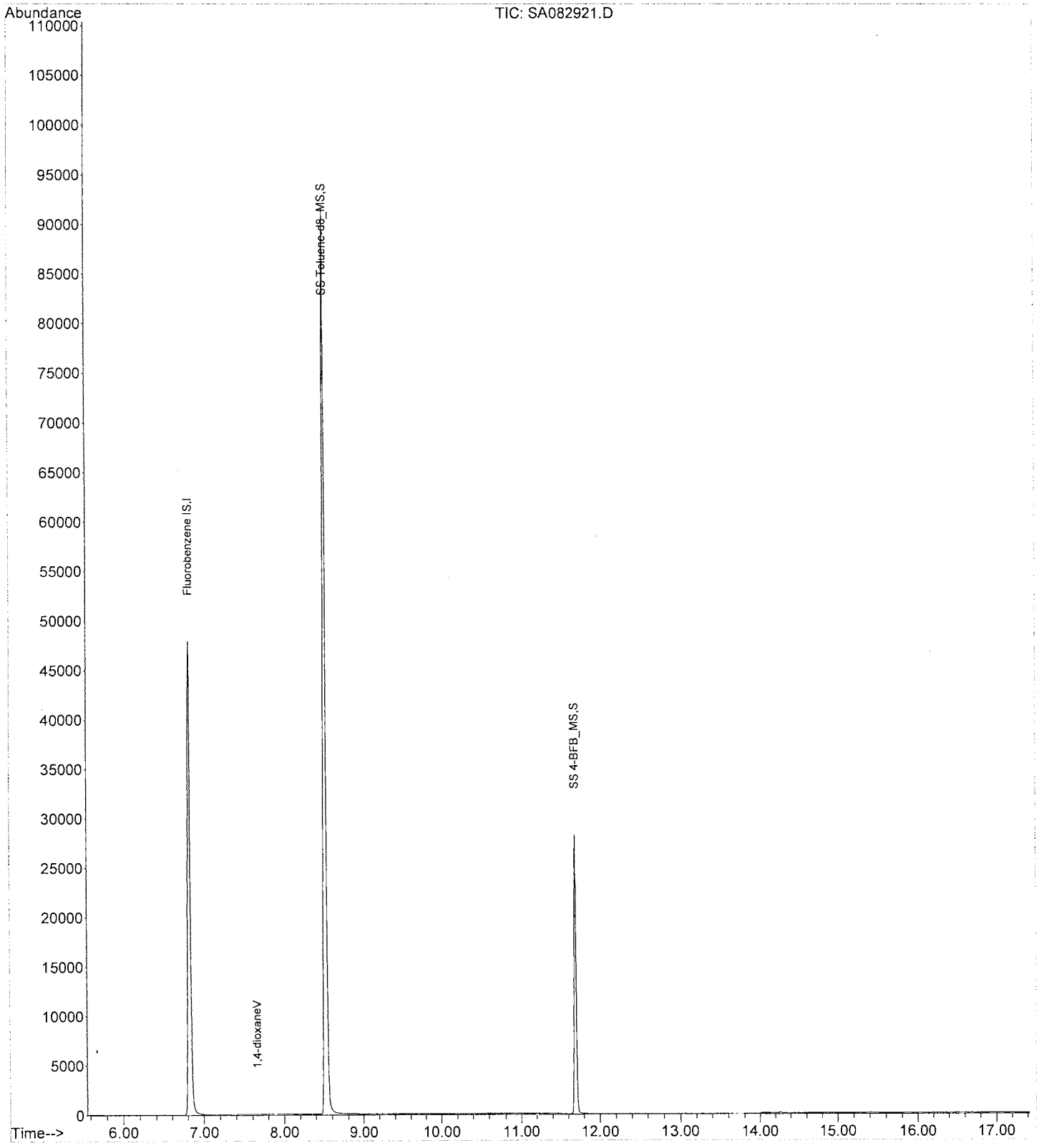
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	110707	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	110631	10.01	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.06%			
4) SS 4-BFB_MS	11.69	95	48672	9.81	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.12%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	26	0.110	ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082921.D Vial: 21
Acq On : 30 Aug 2012 12:54 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:18 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082922.D Vial: 22
Acq On : 30 Aug 2012 1:44 am Operator: VG
Sample : 113593.04 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:30 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	115595	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.52	98	104666	9.07 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.67%		
4) SS 4-BFB_MS	11.69	95	51537	9.95 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.51%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	336	1.361 ug/L	95

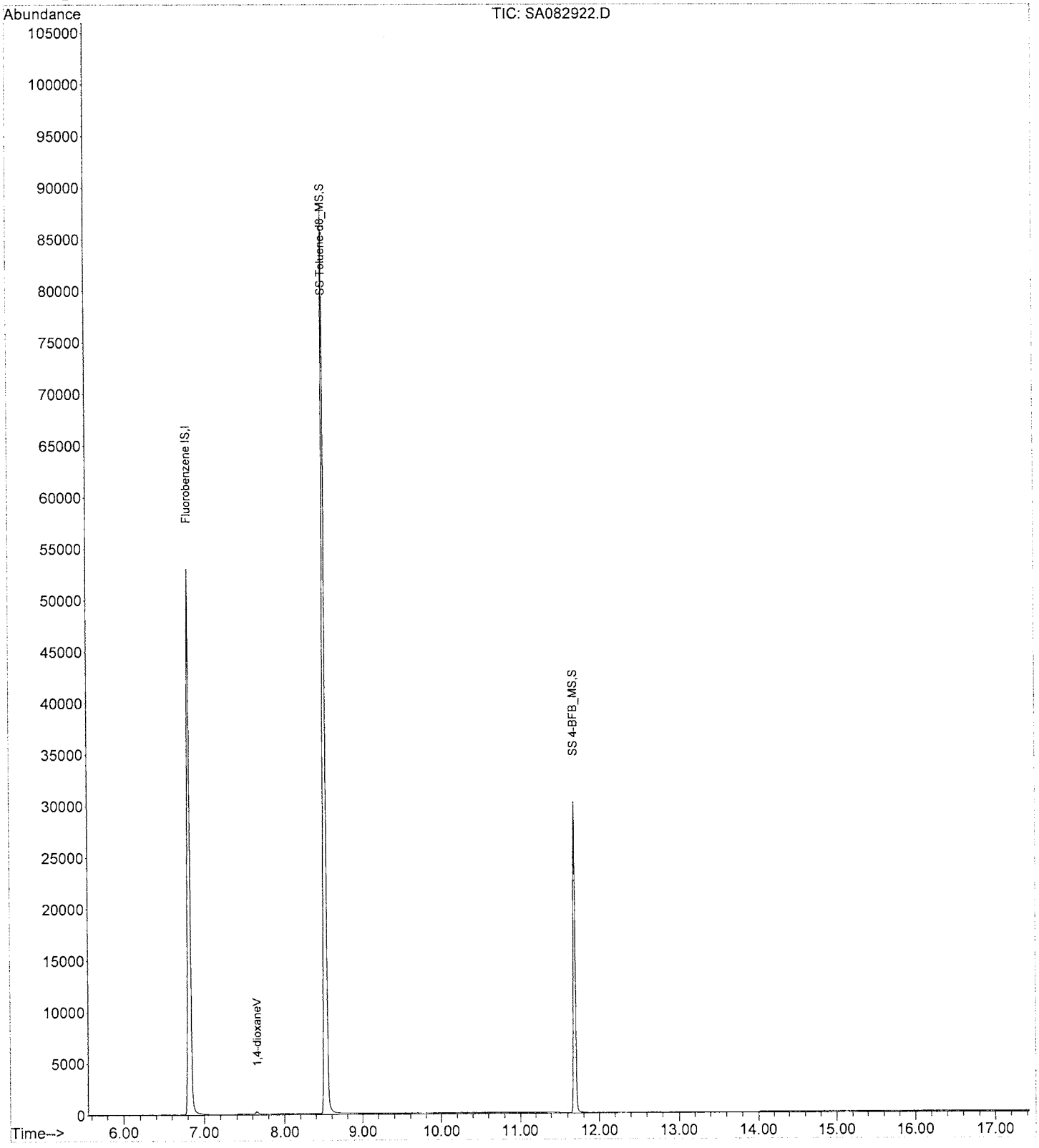
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082922.D Vial: 22
Acq On : 30 Aug 2012 1:44 am Operator: VG
Sample : 113593.04 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082923.D Vial: 23
Acq On : 30 Aug 2012 2:33 am Operator: VG
Sample : 113593.06 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:33 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	115455	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	110418	9.58	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.76%			
4) SS 4-BFB_MS	11.69	95	50998	9.86	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.59%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1253	5.083	ug/L	85

2.06. Improper Integration

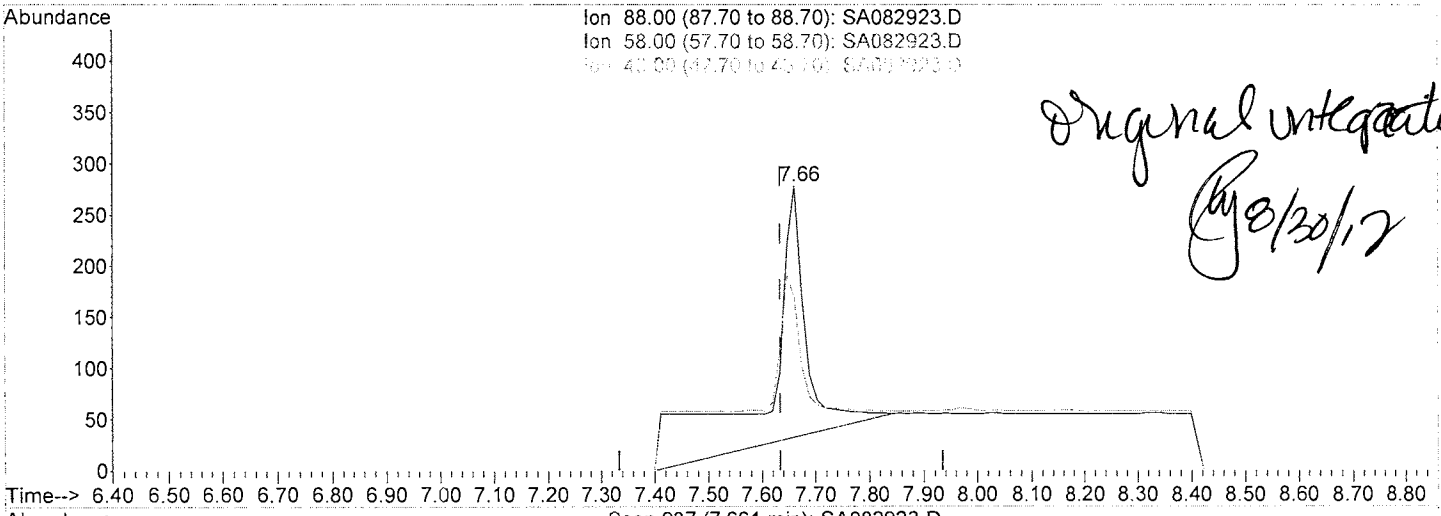
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

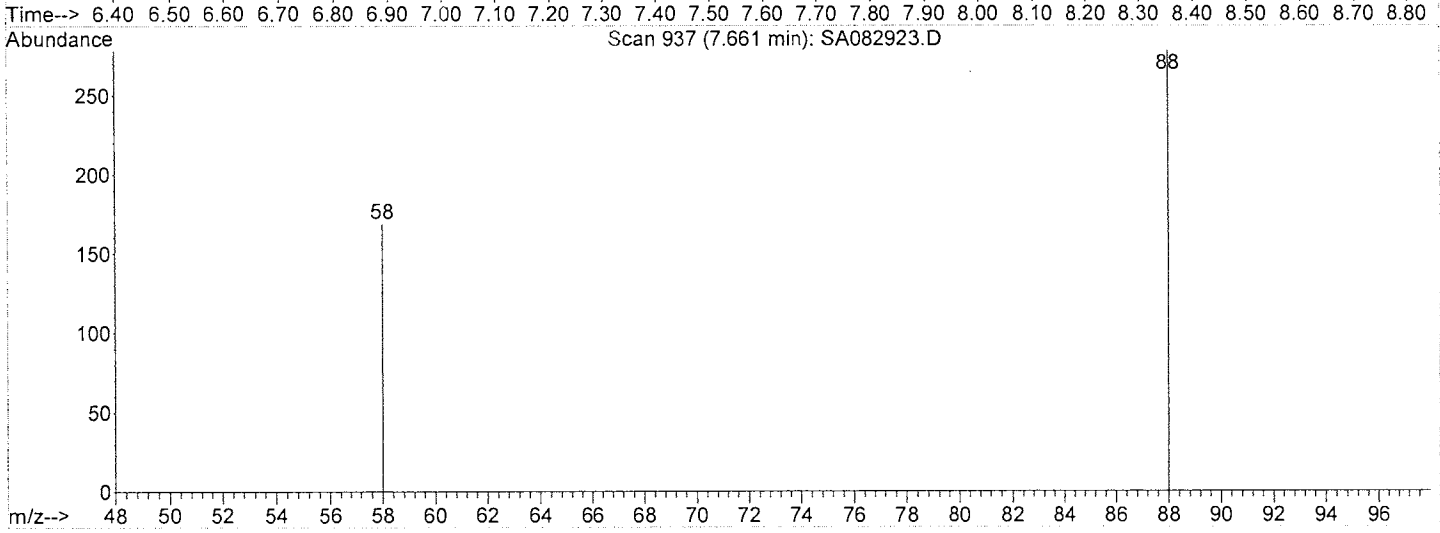
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082923.D Vial: 23
Acq On : 30 Aug 2012 2:33 am Operator: VG
Sample : 113593.06 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



Original integration
8/30/12



TIC: SA082923.D

(2) 1,4-dioxaneV

7.66min (+0.027) 5.08ug/L

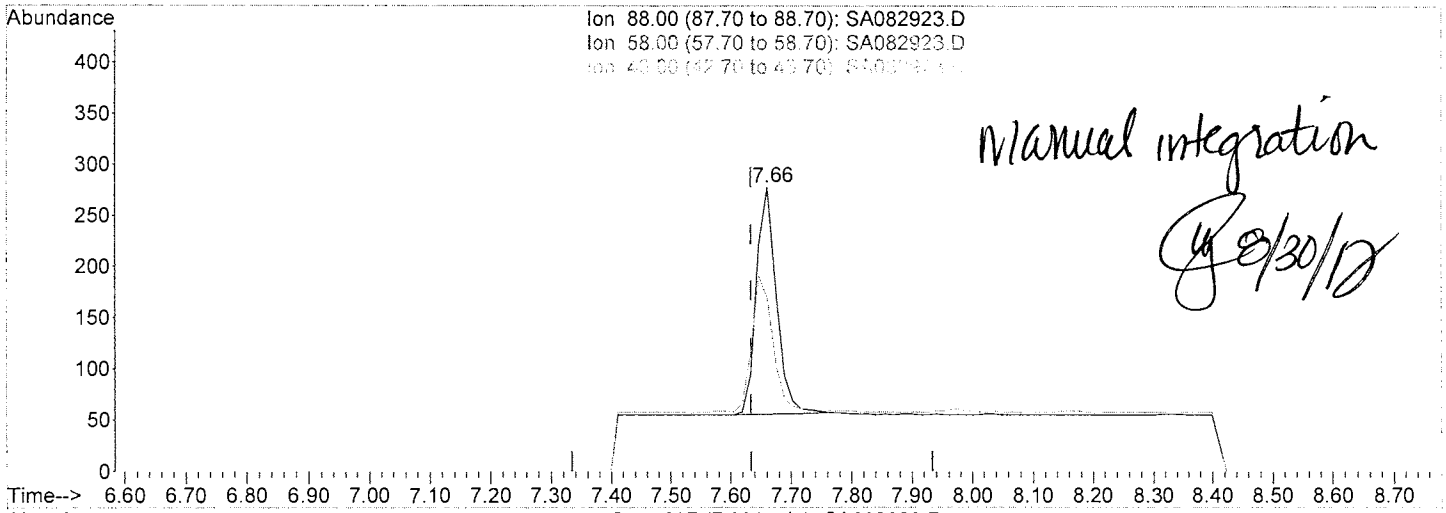
response 1253

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	60.79
43.00	0.00	0.00
0.00	0.00	0.00

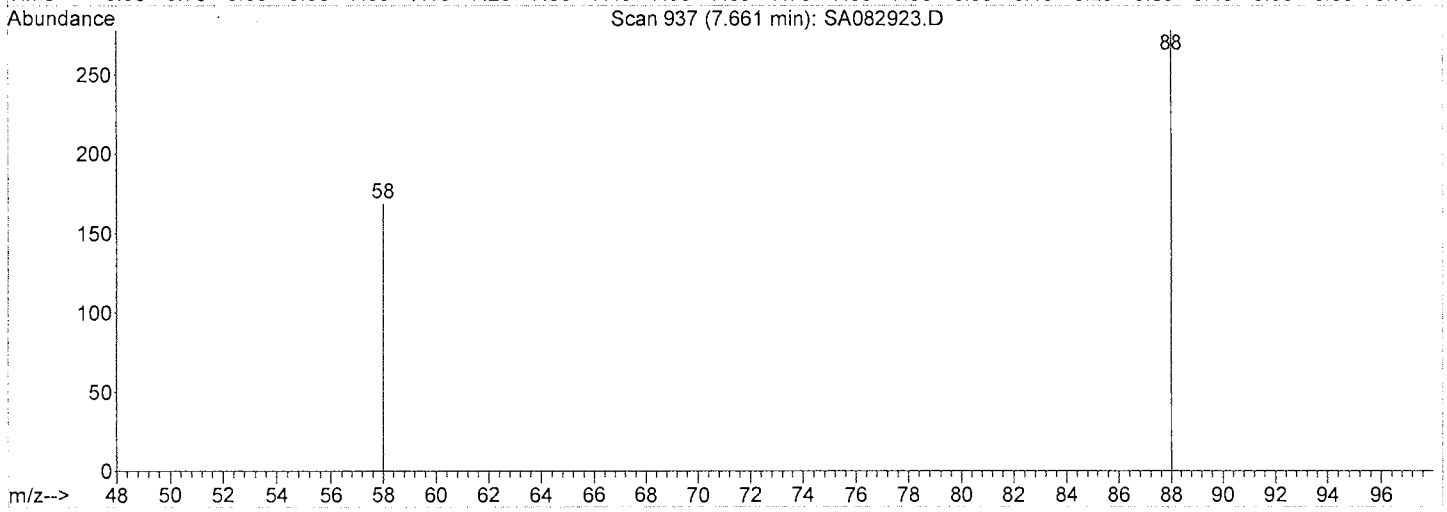
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082923.D Vial: 23
Acq On : 30 Aug 2012 2:33 am Operator: VG
Sample : 113593.06 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 12:13 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



Manual integration
8/30/12



TIC: SA082923.D

(2) 1,4-dioxaneV

7.66min (+0.027) 2.06ug/L m

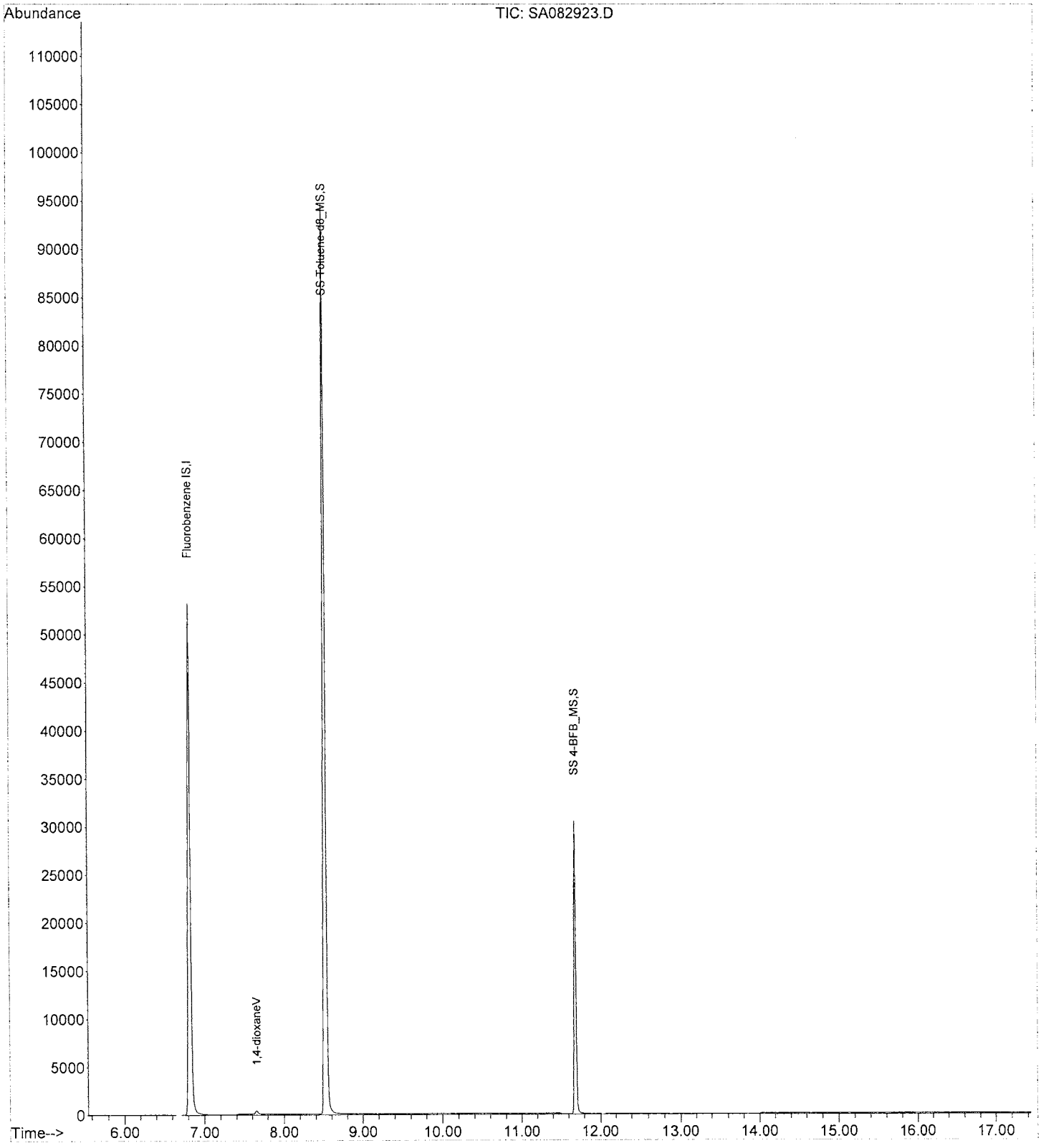
response 509

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	60.79
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082923.D Vial: 23
Acq On : 30 Aug 2012 2:33 am Operator: VG
Sample : 113593.06 Inst : VOAMS2
Misc : X100;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082924.D Vial: 24
Acq On : 30 Aug 2012 3:23 am Operator: VG
Sample : 113593.02 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:36 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	112343	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.52	98	118523	10.56 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.64%		
4) SS 4-BFB_MS	11.69	95	50996	10.13 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.31%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	1379	5.749 ug/L	94

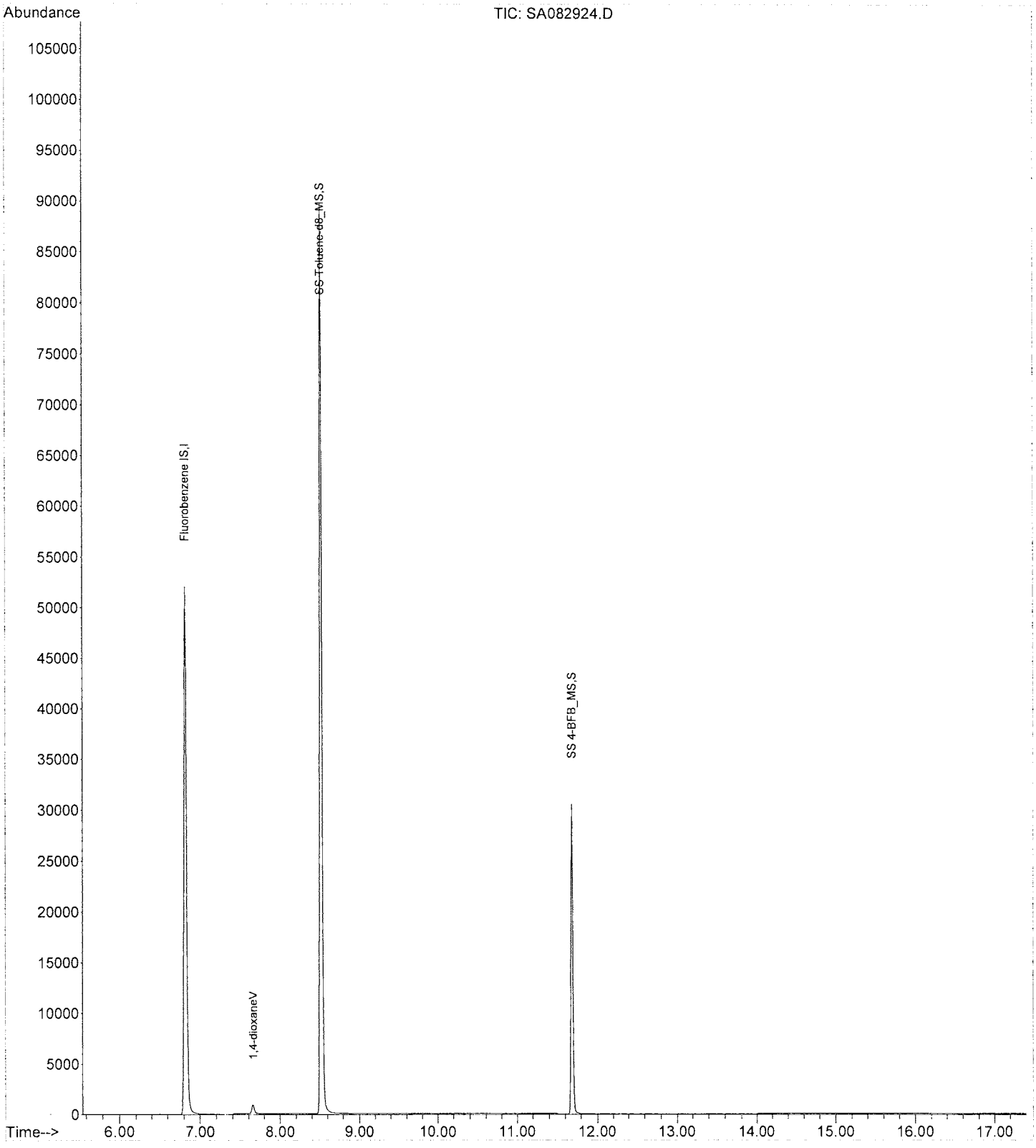
Rerun with MS/MSD

8/30/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082924.D Vial: 24
Acq On : 30 Aug 2012 3:23 am Operator: VG
Sample : 113593.02 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:19 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082925.D Vial: 25
Acq On : 30 Aug 2012 4:13 am Operator: VG
Sample : 113593.02MS Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:39 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	124311	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	105877	8.53	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.28%			
4) SS 4-BFB_MS	11.69	95	51660	9.28	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.75%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1528	5.757	ug/L	97

~~LCS~~ forgot to spike with MS solution ??

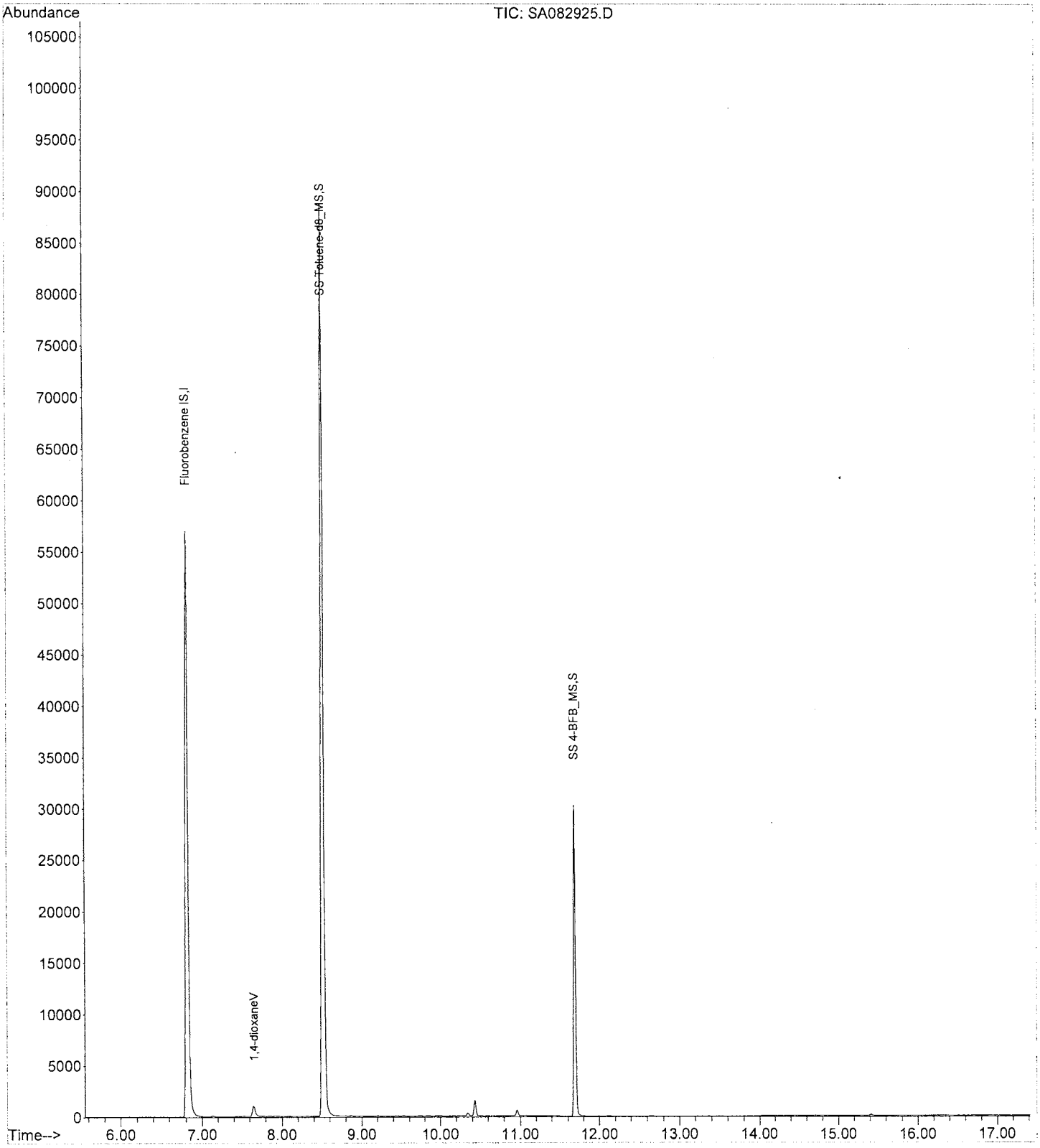
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082925.D Vial: 25
Acq On : 30 Aug 2012 4:13 am Operator: VG
Sample : 113593.02MS Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:20 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082926.D Vial: 26
Acq On : 30 Aug 2012 5:02 am Operator: VG
Sample : 113593.02MSD Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:42 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	122896	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	111187	9.06	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.59%			
4) SS 4-BFB_MS	11.69	95	51481	9.35	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.49%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1660	6.327	ug/L	99

forgot to spike with MS solution ??

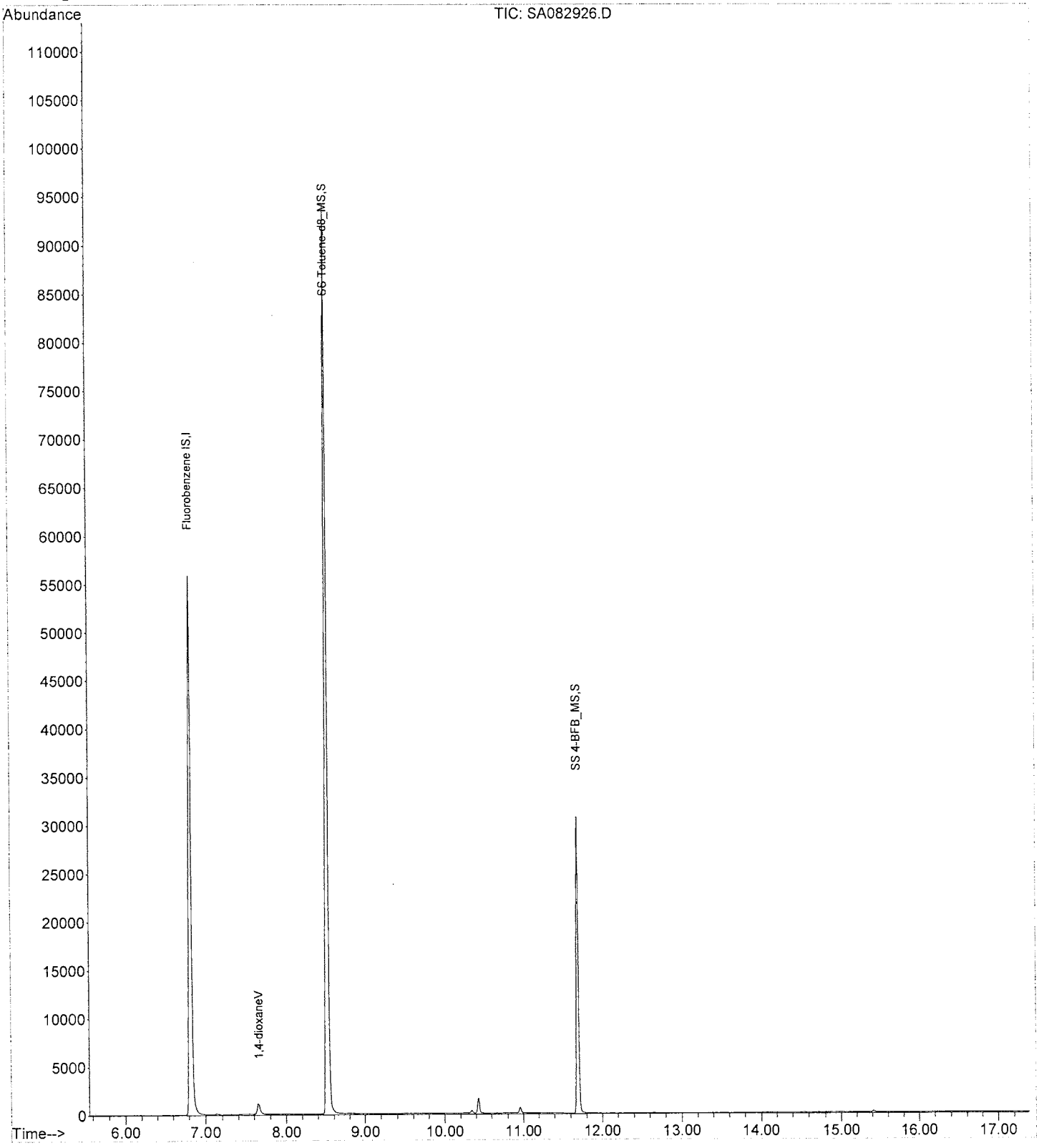
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082926.D Vial: 26
Acq On : 30 Aug 2012 5:02 am Operator: VG
Sample : 113593.02MSD Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:20 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082927.D Vial: 27
Acq On : 30 Aug 2012 5:52 am Operator: VG
Sample : 113593.05 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 09:20:45 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	119831	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	105841	8.84	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.44%			
4) SS 4-BFB_MS	11.69	95	51964	9.68	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.78%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	643	2.513	ug/L #	44

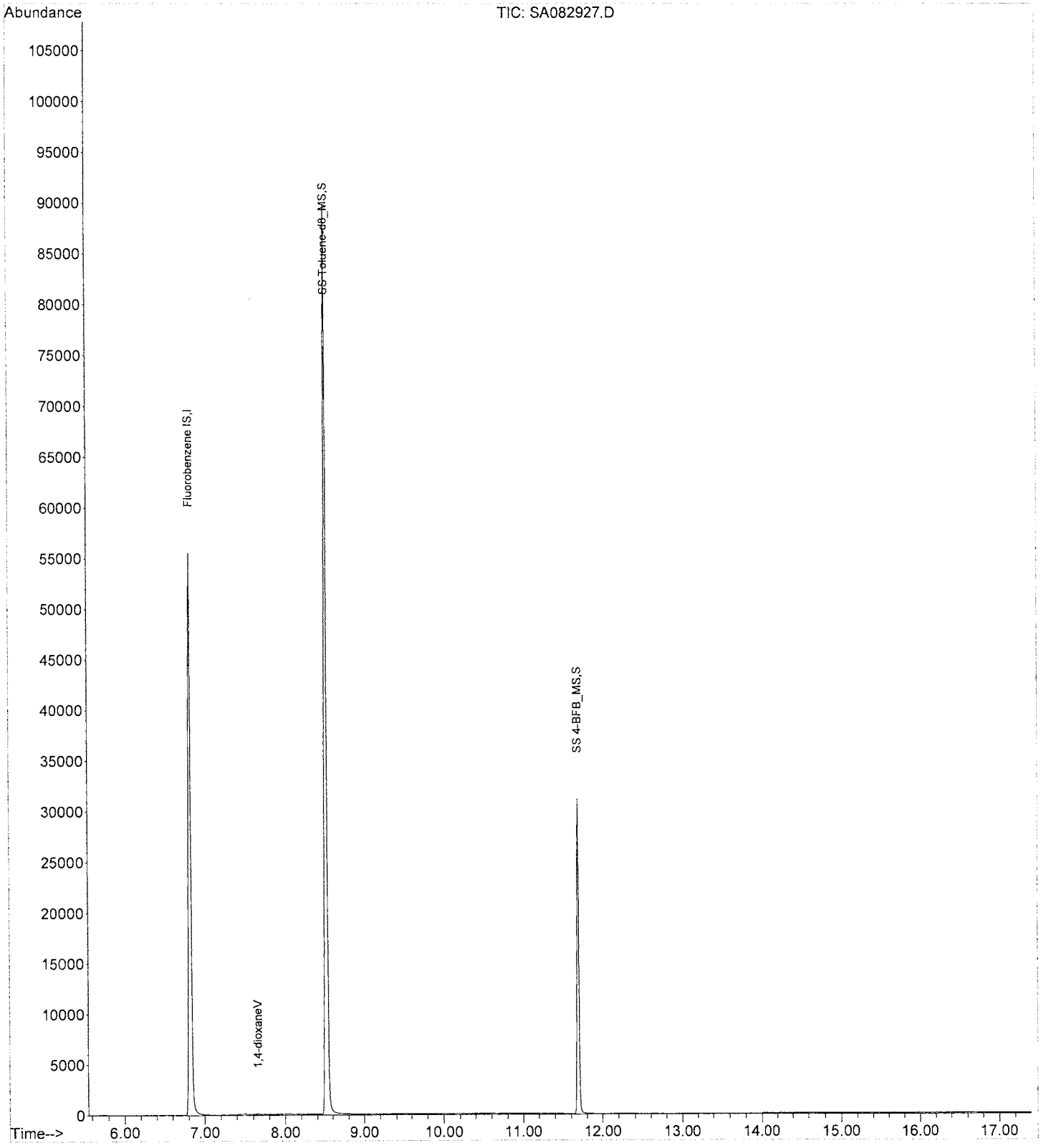
8/30/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG2912\SA082927.D Vial: 27
Acq On : 30 Aug 2012 5:52 am Operator: VG
Sample : 113593.05 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 9:20 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



VOAMS2 Analysis Run Log

IS/SS ID= V- 3974
Standard ID= V- 39333
LCS/LCSD and/or MS/MSD Standard ID= V- 39316

Analyst: VG

Date: 8/30/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SA083001	BFB		✓		x1	VOC MS1			
2	2	STD5		✓		↓	VOC SIM			
3	3	113593.02MS	✓	✓		X10	VOC			
4	4	02MSD	✓	✓		X10	VOC			
5	5	LCS5		✓		x1	VOC			
6	6	LCSD5		✓		↓	VOC			
7	7	Blank		✓		↓	VOC			
8	8	113593.02	✓	✓		X10	VOC			
9	9						VOC			
10	10						VOC			
11	11						VOC			
12	12						VOC			
13	13						VOC			
14	14						VOC			
15	15						VOC			
~~16~~	~~16~~	~~STD.75~~ CG 8/30/12					VOC			
							VOC			
							VOC			
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Samples removed from autosampler, order verified by CG 8/31/12

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\AUG12\AUG3012\SA083001.D
Tune Time : 30 Aug 2012 10:29 am

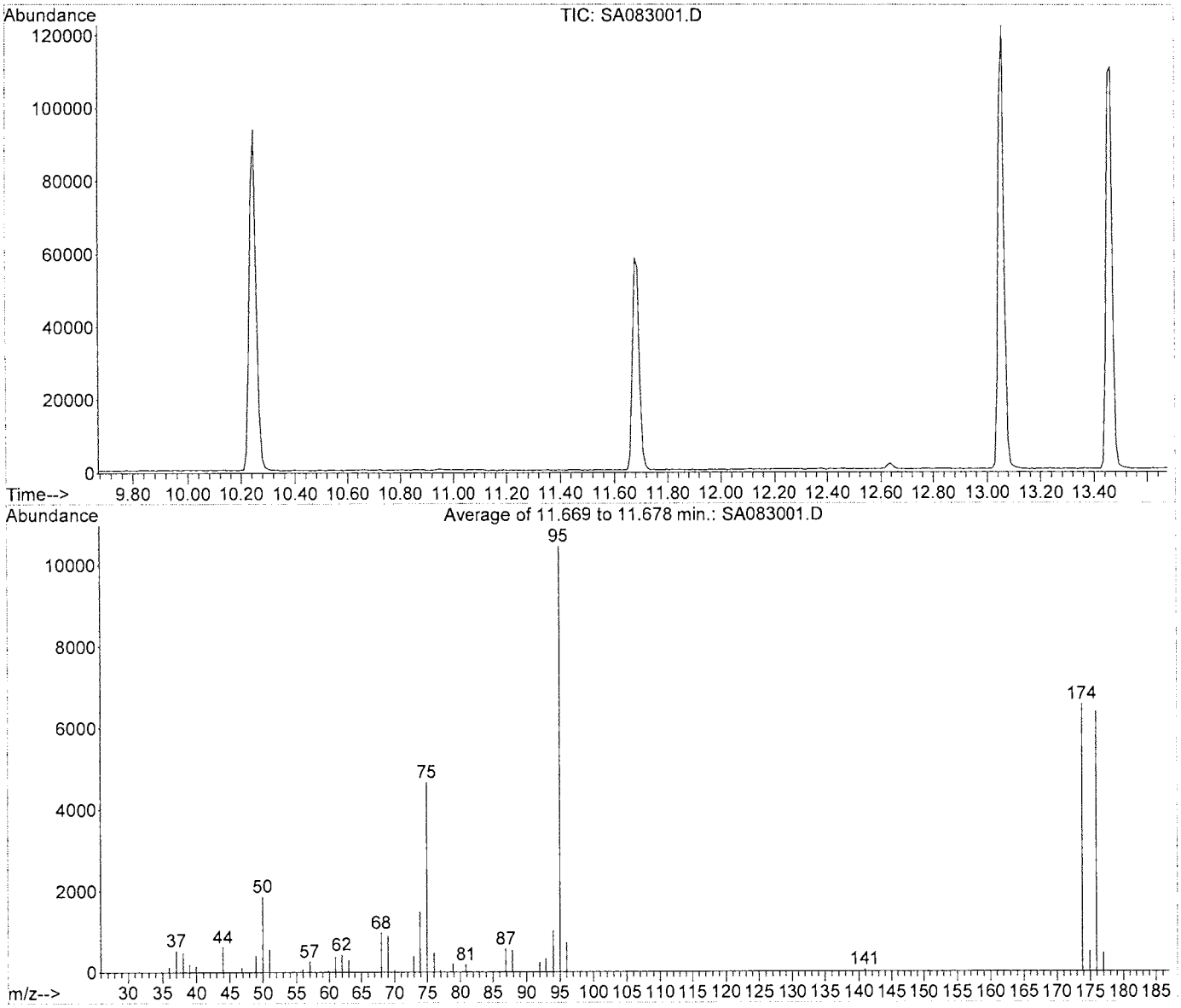
Daily Calibration File : V:\1\DATA\2012\AUG12\AUG3012\SA083002.D

				111021
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA083002.D	STD5	90	104	111021
SA083003.D	113593.02M	91	100	116567
SA083004.D	113593.02M	103	95	113939
SA083005.D	LCS5	95	95	121089
SA083006.D	LCSD5	88	96	121980
SA083007.D	BLANK	111	104	111315
SA083008.D	11593.02	86	104	110057

t - fails 12hr time check * - fails criteria

Created: Fri Aug 31 09:21:03 2012 VOAMS2

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083001.D Vial: 1
Acq On : 30 Aug 2012 10:29 am Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.669 to 11.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	1866	PASS
75	95	30	60	44.7	4673	PASS
95	95	100	100	100.0	10456	PASS
96	95	5	9	6.9	722	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.8	6570	PASS
175	174	5	9	7.6	500	PASS
176	174	95	101	97.2	6389	PASS
177	176	5	9	7.3	465	PASS

SA083001.D 2SIM0524.M Thu Aug 30 11:05:34 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083002.D Vial: 2
Acq On : 30 Aug 2012 11:18 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	79	0.02
2		1,4-dioxaneV	5.000	4.945	1.1	78	0.03
3	S	SS Toluene-d8_MS	10.000	8.992	10.1	72	0.02
4	S	SS 4-BFB_MS	10.000	10.437	-4.4	82	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA083002.D 2SIM0524.M Thu Aug 30 12:09:17 2012

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083002.D Vial: 2
Acq On : 30 Aug 2012 11:18 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 12:08:50 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

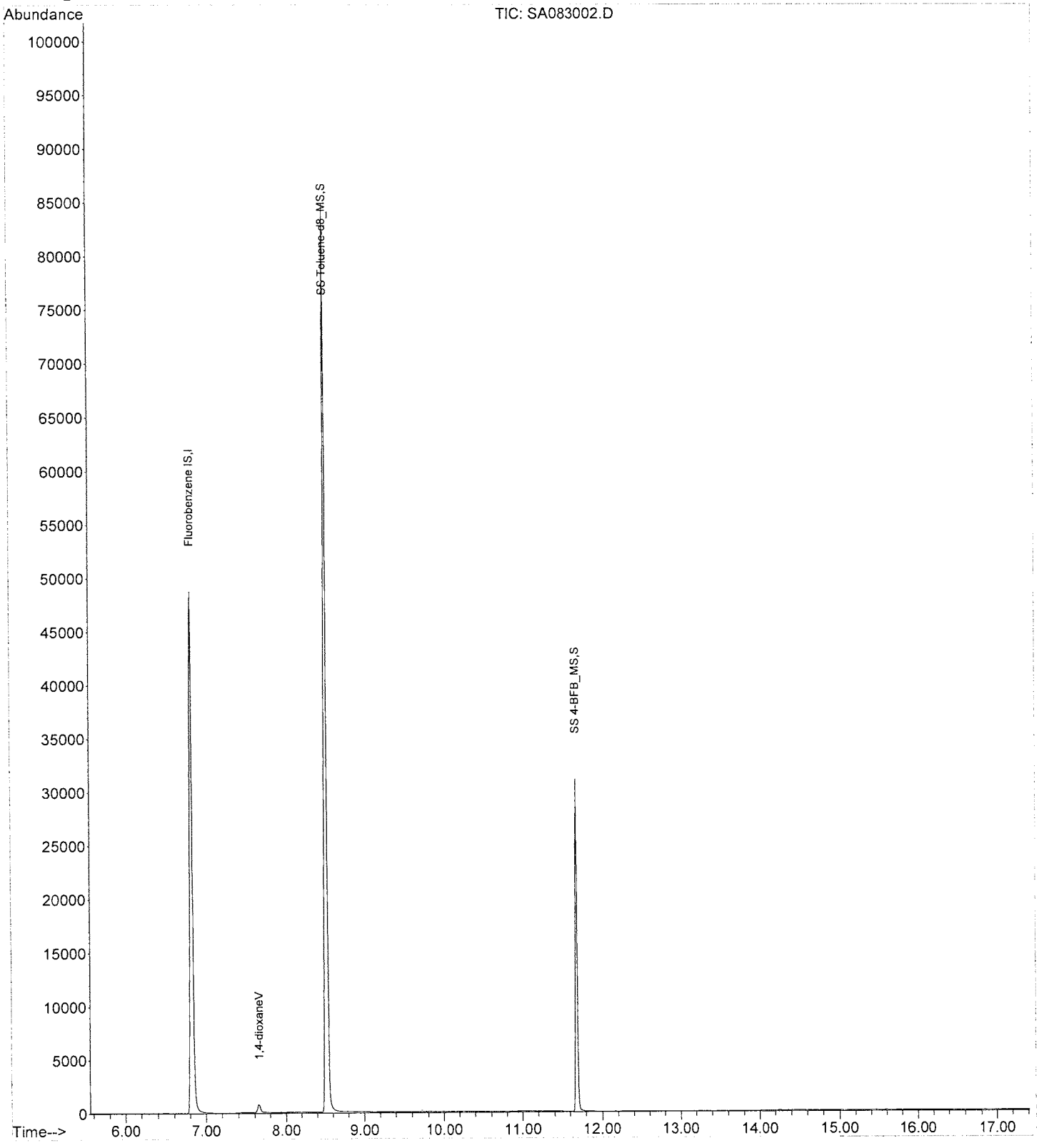
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	111021	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	99702	8.99	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.92%			
4) SS 4-BFB_MS	11.69	95	51919	10.44	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.37%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1172	4.945	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083002.D Vial: 2
Acq On : 30 Aug 2012 11:18 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 12:08 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 12:08 pm Operator: VG
Sample : MSpkA083012V82601 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 13:23:05 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	116567	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	105450	9.06	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.58%			
4) SS 4-BFB_MS	11.69	95	52288	10.01	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.12%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	2662m	10.696	ug/L	

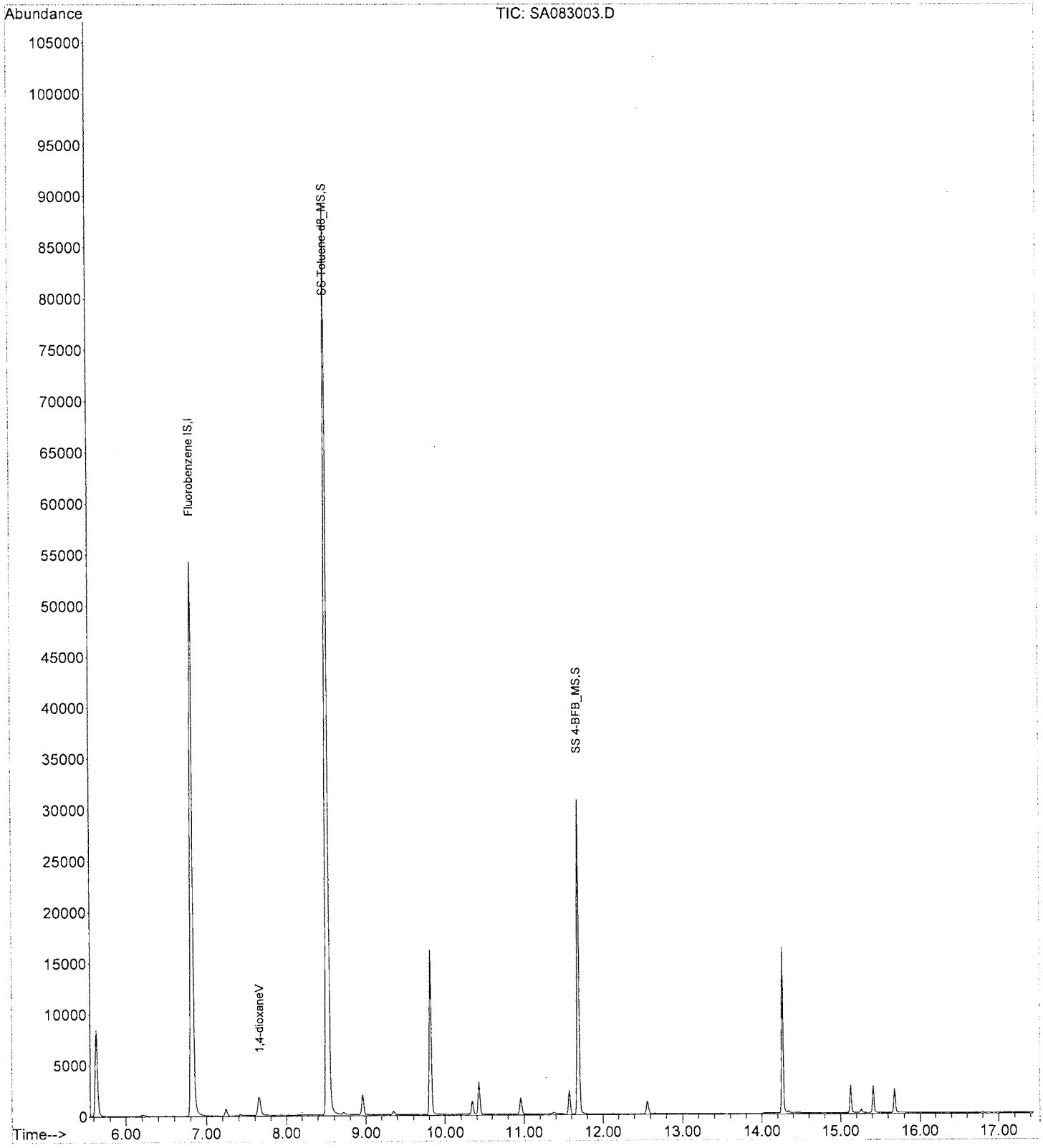
8/31/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083003.D 2SIM0524.M Fri Aug 31 10:32:59 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083003.D Vial: 3
Acq On : 30 Aug 2012 12:08 pm Operator: VG
Sample : MSpkA083012V82601 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:29 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083004.D Vial: 4
Acq On : 30 Aug 2012 12:58 pm Operator: VG
Sample : MSDuA083012V82601 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 13:23:38 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS		6.82	96	113939	10.000	ug/L	0.02
System Monitoring Compounds							
3) SS Toluene-d8_MS		8.52	98	117657	10.34	ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery =	103.40%		
4) SS 4-BFB_MS		11.69	95	48530	9.51	ug/L	0.01
Spiked Amount	10.000	Range 70 - 130		Recovery =	95.06%		
Target Compounds							Qvalue
2) 1,4-dioxaneV		7.66	88	2914m	11.979	ug/L	

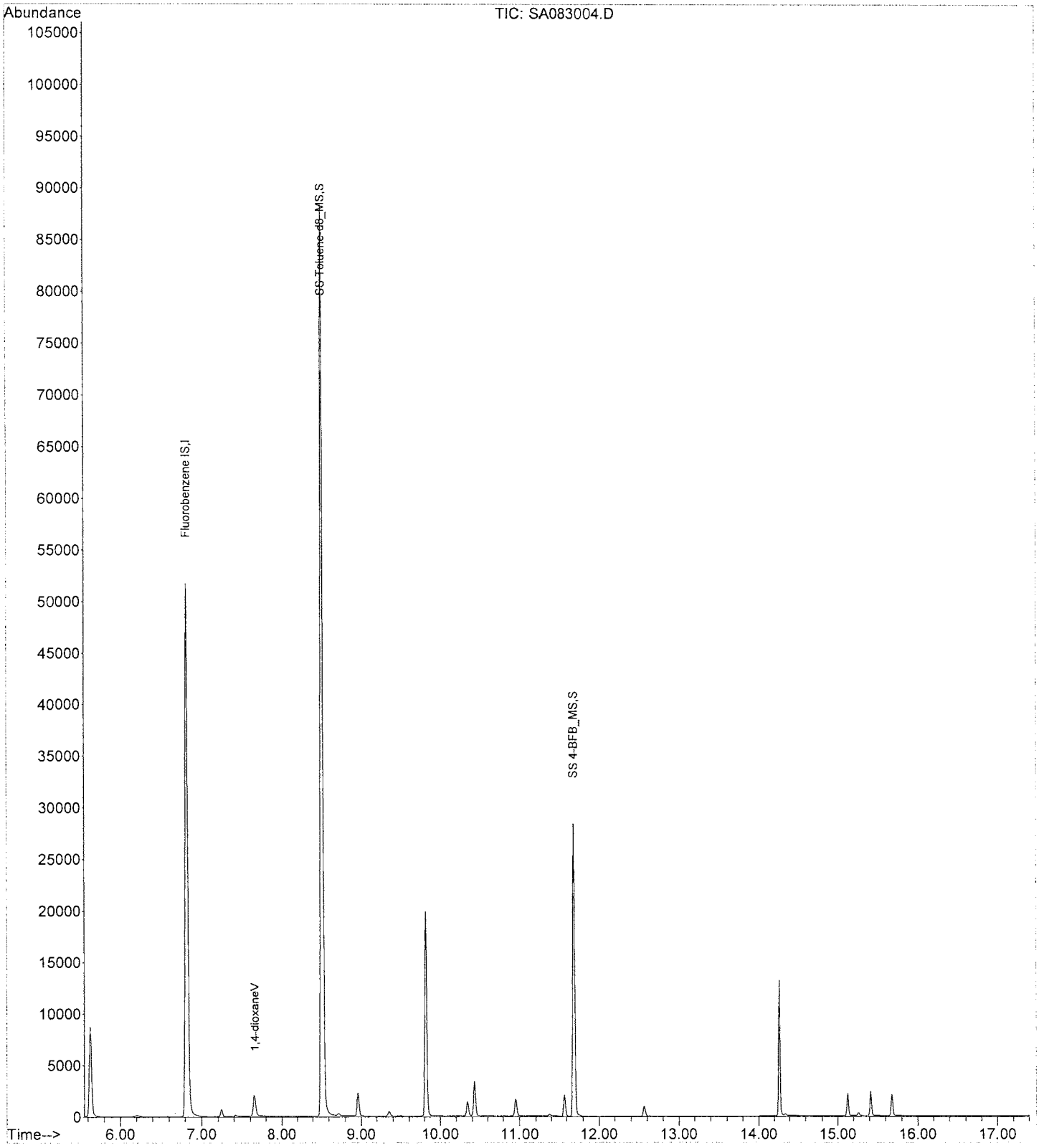
8/31/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083004.D 2SIM0524.M Fri Aug 31 10:33:15 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083004.D Vial: 4
Acq On : 30 Aug 2012 12:58 pm Operator: VG
Sample : MSDuA083012V82601 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:29 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083005.D Vial: 5
Acq On : 30 Aug 2012 1:49 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:57:35 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

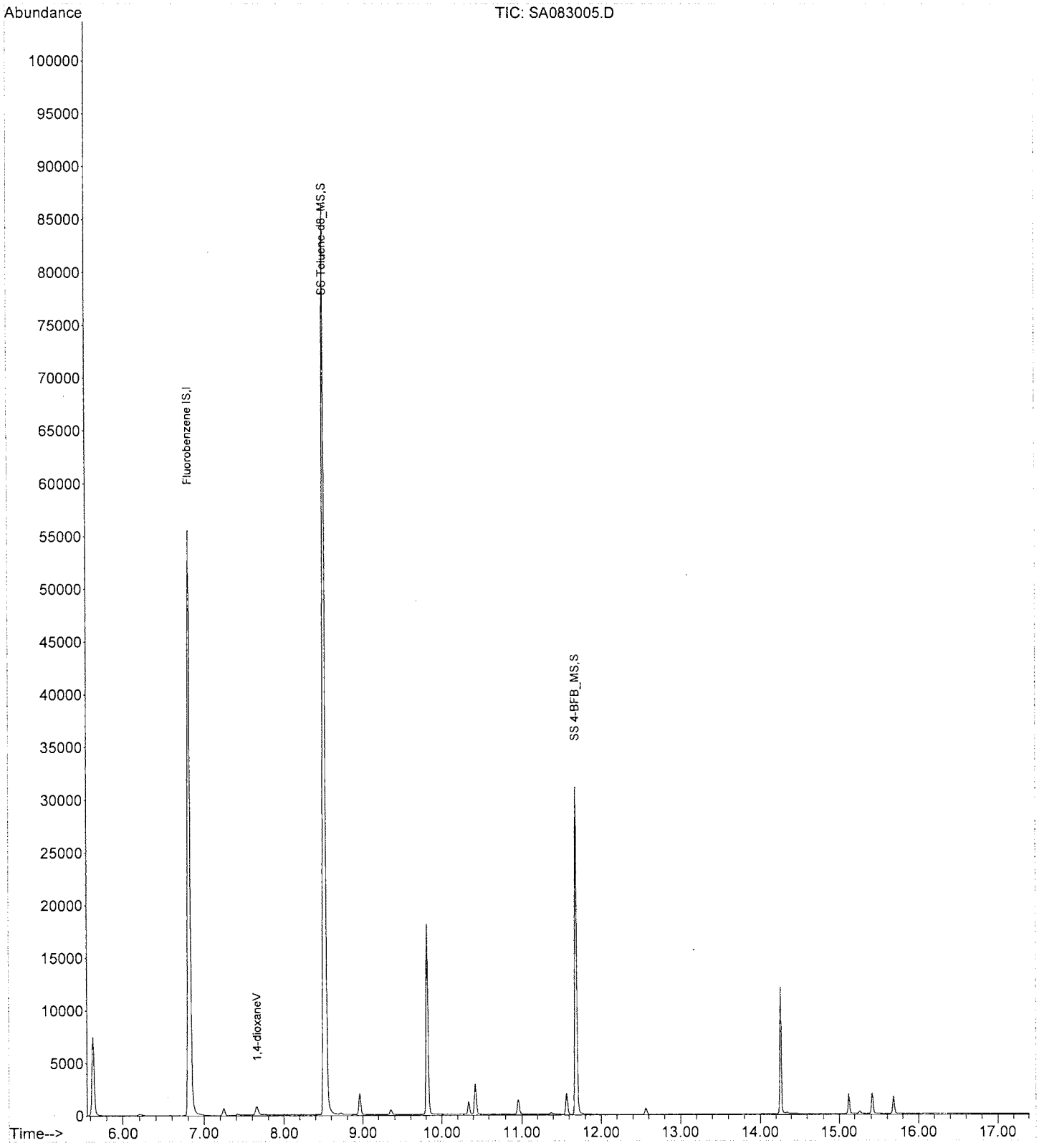
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	121089	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	114373	9.46	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.58%			
4) SS 4-BFB_MS	11.69	95	51409	9.48	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.76%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1173	4.537	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083005.D Vial: 5
Acq On : 30 Aug 2012 1:49 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:56 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083006.D Vial: 6
Acq On : 30 Aug 2012 2:38 pm Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:57:52 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

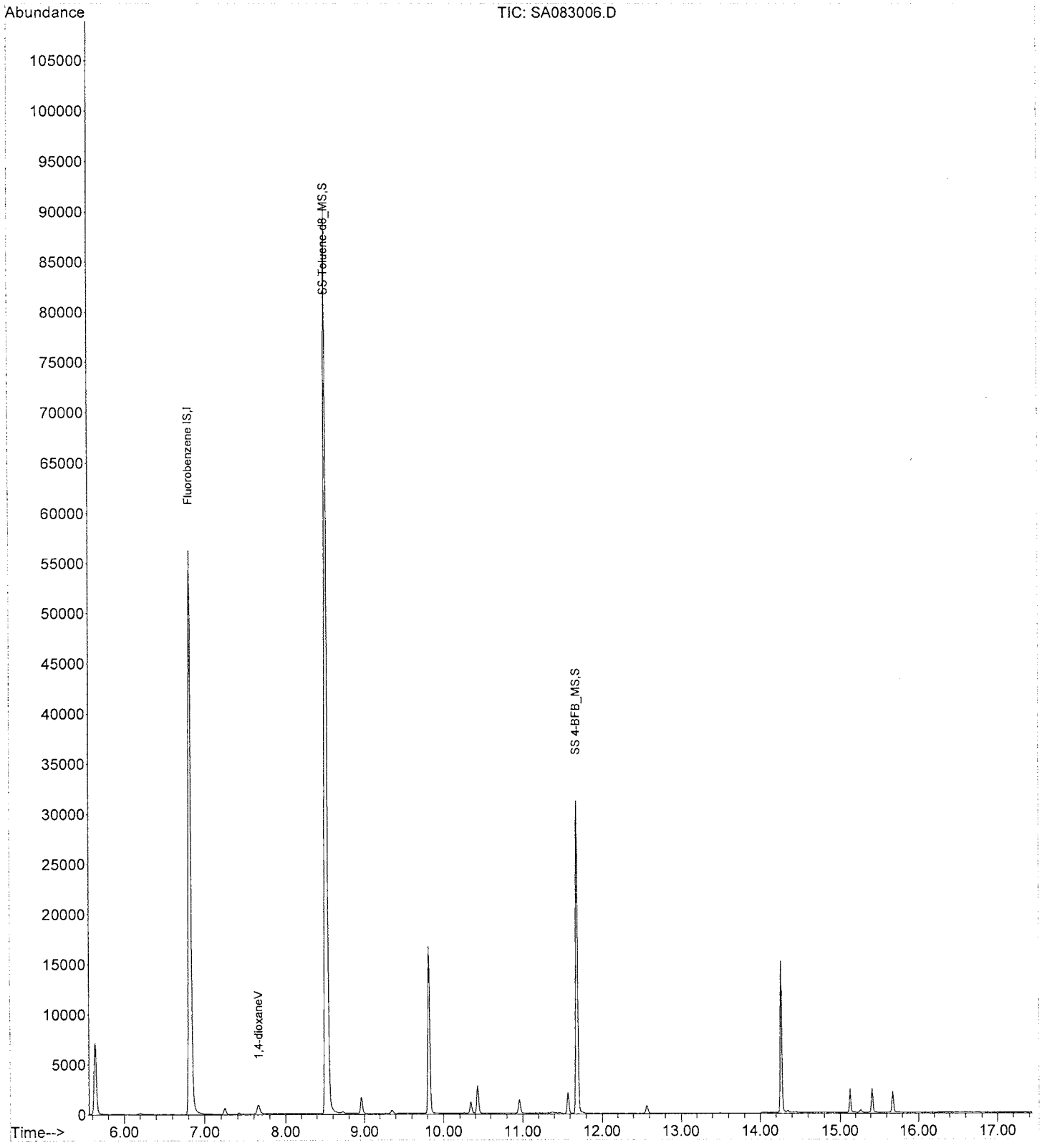
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	121980	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	107681	8.84	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.39%			
4) SS 4-BFB_MS	11.69	95	52580	9.62	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.21%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1308	5.023	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083006.D Vial: 6
Acq On : 30 Aug 2012 2:38 pm Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:57 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083007.D Vial: 7
Acq On : 30 Aug 2012 3:28 pm Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:58:03 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

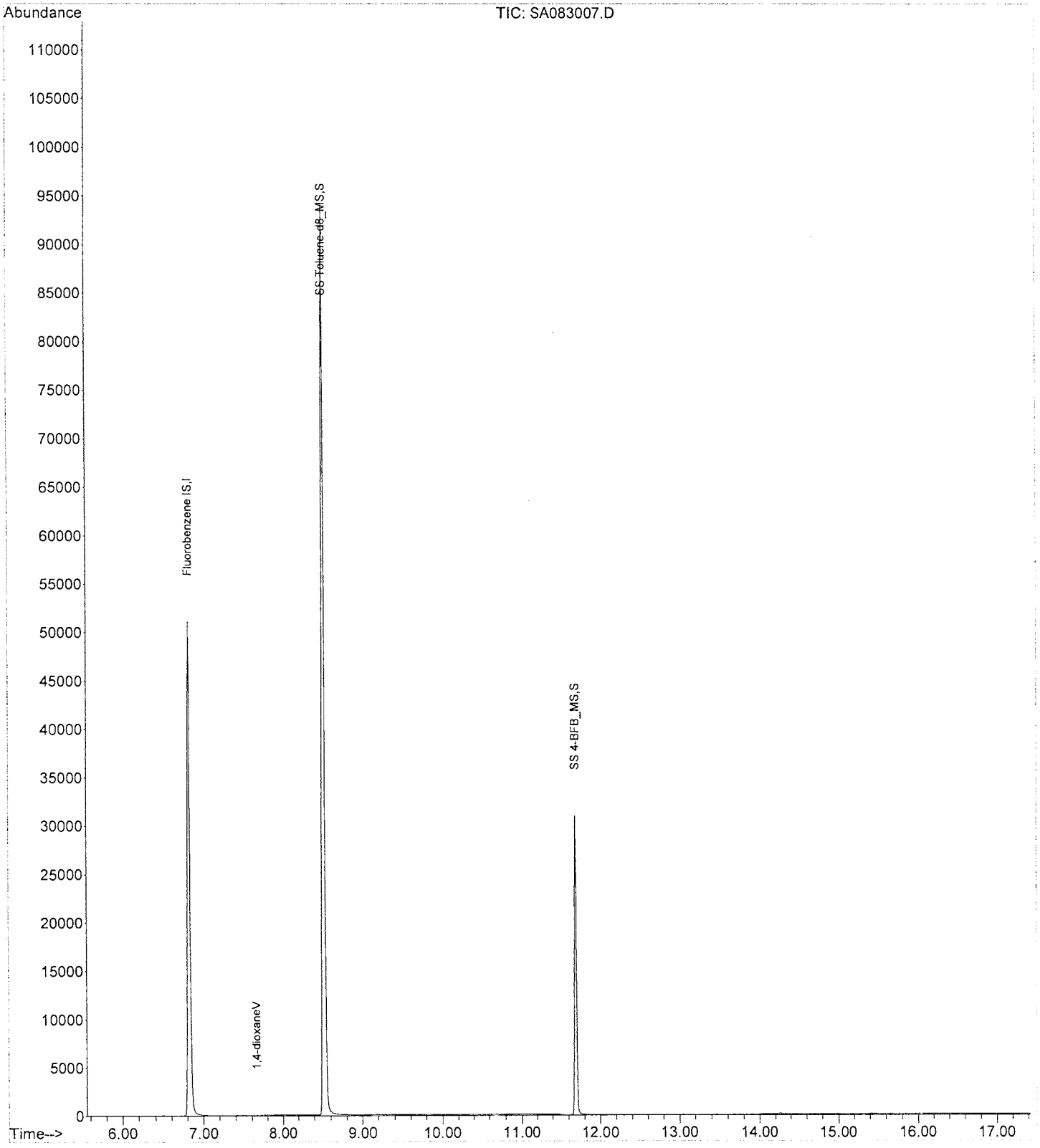
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	111315	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	122926	11.06	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.58%			
4) SS 4-BFB_MS	11.69	95	52117	10.45	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.50%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	17	0.072	ug/L #	53

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083007.D Vial: 7
Acq On : 30 Aug 2012 3:28 pm Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 15:57 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083008.D Vial: 8
Acq On : 30 Aug 2012 4:22 pm Operator: VG
Sample : 11593.02 → 113593.02 Inst : VOAMS2
Misc : X10;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 16:55:16 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	110057	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.52	98	94830	8.63 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.28%		
4) SS 4-BFB_MS	11.69	95	51363	10.42 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.16%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	1428	6.077 ug/L	97

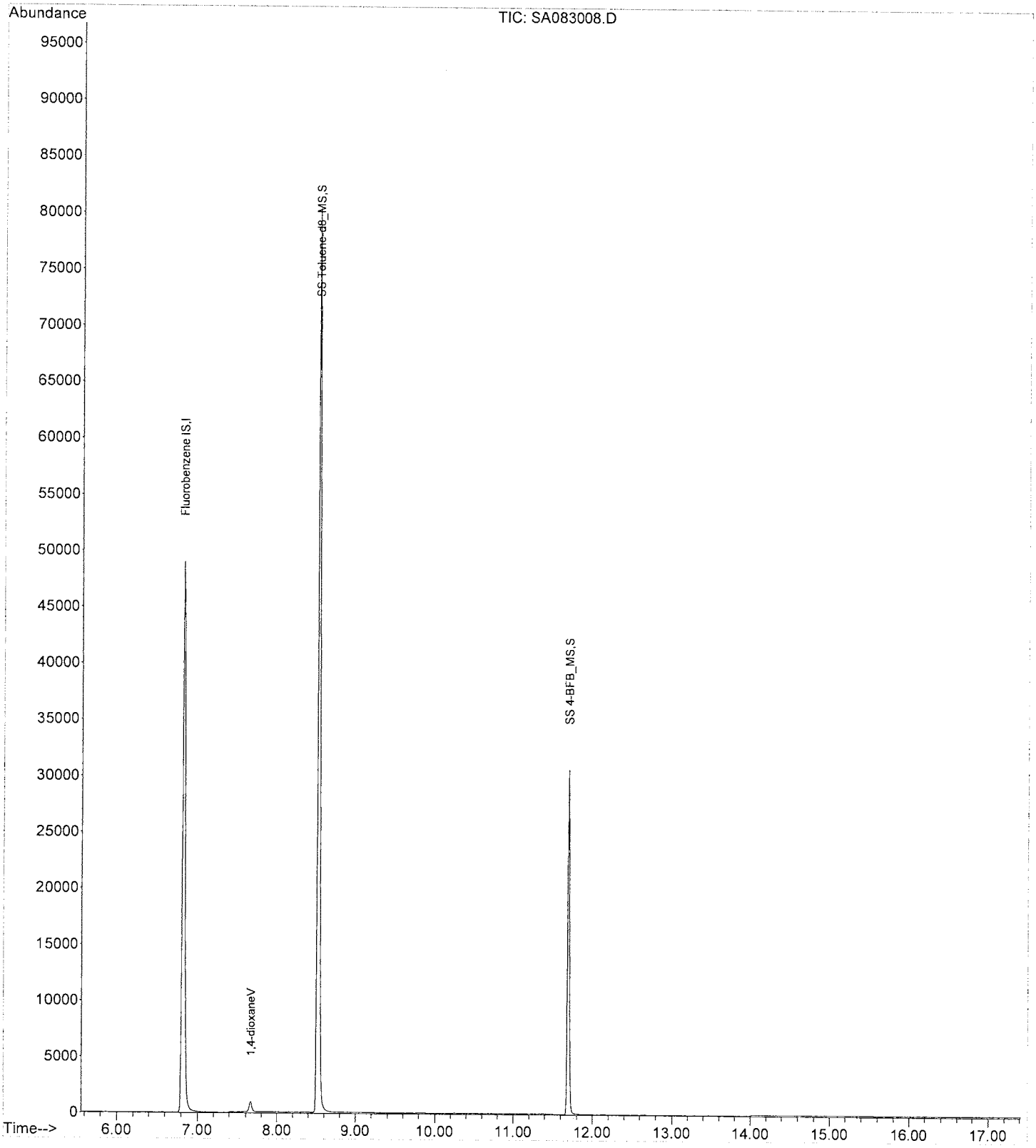
8/31/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3012\SA083008.D Vial: 8
Acq On : 30 Aug 2012 4:22 pm Operator: VG
Sample : 11593.02 Inst : VOAMS2
Misc : X10;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 30 16:54 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Metals 6020A

Sample and QC Data

Sample/Batch Report

User Name: ICPMS1
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\AQUIRE_September062012.sam
Report Date/Time: Tuesday, September 11, 2012 12:50:40

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
		Calibration Blank		Sample					
2		Hg0.1ppbCS		Sample					
3		Hg1.0ppbCS		Sample					
4		Hg5.0ppbCS		Sample					
9		TM.5ppbCS		Sample					
10		TM5ppbCS		Sample					
11		TM20ppbCS		Sample					
12		Min100CS		Sample					
13		Min1000CS		Sample					
14		Min5000CS		Sample					
5		Reagent Blank		Sample					
6		SCP_ICV		Sample					
15		ERA DWQC_ICV		Sample					
7		ERA WWQC_ICV		Sample					
8		MIN_ICV		Sample					
16		flush		Sample					
17		flush		Sample					
18		LLCS	0.1ppb TM + 1(	Sample					
19		0.5ppb check		Sample					
20		ICSA		Sample					
21		ICSAB		Sample					
22		5ppm LRC-flush		Sample					
23		flush		Sample					
24		flush		Sample					
25		BLK	8/29/12	Sample					
26		BLK	8/31/12	Sample					
27		BLK	9/4/12	Sample					
28		Ag LCS	8/29/12	Sample					
29		Ag LCS	8/31/12	Sample					
30		Ag LCS	9/4/12	Sample					
31		LCS	8/29/12	Sample					
32		LCS	8/31/12	Sample					
33		LCS	9/4/12	Sample					
34		flush		Sample					
35		flush		Sample					
36		flush		Sample					
37		113593.01	AqTot	Sample					
38		113593.02	AqTot	Sample					
39		113593.02 MS	AqTot pre	Sample					
40		113593.02 MS	AqTot pre	Sample					
41		113593.02 MS	AqTot post	Sample					
42		113593.02 MS	AqTot post	Sample					
43		flush		Sample					
44		flush		Sample					
45		flush		Sample					
46		113593.03	AqTot	Sample					
47		113593.04	AqTot	Sample					
48		113593.05	AqTot	Sample					
49		113593.06	AqTot	Sample					

50	113593.07	AqTot	Sample
51	113593.08	AqTot	Sample
52	113593.09	AqTot	Sample
53	113593.10	AqTot	Sample
54	113593.11	AqTot	Sample
55	113593.12	AqTot	Sample
56	113593.12 MS	AqTot post	Sample
57	113593.12 MS	AqTot post	Sample
58	flush		Sample
59	flush		Sample
60	flush		Sample
61	113653.01	AqTot	Sample
62	113653.02	AqTot	Sample
63	113653.03	AqTot	Sample
64	113653.04	AqTot	Sample
65	113653.05	AqTot	Sample
66	113653.06	AqTot	Sample
67	113653.07	AqTot	Sample
68	113653.07 MS	AqTot pre	Sample
69	113653.07 MS	AqTot pre	Sample
70	113653.07 MS	AqTot post	Sample
71	113653.07 MS	AqTot post	Sample
72	flush		Sample
73	flush		Sample
74	flush		Sample
75	113653.08	AqTot	Sample
76	113653.09	AqTot	Sample
77	113653.10	AqTot	Sample
78	113653.11	AqTot	Sample
79	113653.12	AqTot	Sample
80	113653.13	AqTot	Sample
81	113653.14	AqTot	Sample
82	113653.15	AqTot	Sample
83	113653.16	AqTot	Sample
84	113653.17	AqTot	Sample
85	113653.17 MS	AqTot post	Sample
86	113653.17 MS	AqTot post	Sample
87	flush		Sample
88	flush		Sample
89	flush		Sample
90	113653.18	AqTot	Sample
91	113653.20	AqTot	Sample
92	113689.01	AqTot	Sample
93	113689.02	AqTot	Sample
94	113689.03	AqTot	Sample
95	113689.04	AqTot	Sample
96	113689.05	AqTot	Sample
97	113689.06	AqTot	Sample
98	113689.07	AqTot	Sample
99	113689.08	AqTot	Sample
100	113689.08 MS	AqTot pre	Sample
101	113689.08 MS	AqTot pre	Sample
102	flush		Sample
103	flush		Sample
104	flush		Sample
105	113689.09	AqTot	Sample
106	113689.10	AqTot	Sample
107	113689.11	AqTot	Sample
108	113593.02	Aqdis	Sample
109	113593.02 MS	Aqdis	Sample

110	113593.02 MS	Aqdis	Sample
111	flush		Sample
112	flush		Sample
113	flush		Sample
114	113593.03	Aqdis	Sample
115	113593.05	Aqdis	Sample
116	113593.08	Aqdis	Sample
117	113593.09	Aqdis	Sample
118	113593.10	Aqdis	Sample
119	113593.11	Aqdis	Sample
120	113593.12	Aqdis	Sample
121	113593.08	Aqdis 1:1 Sc m	Sample
122	flush		Sample
123	BLK	8/29/12 rerun	Sample
124	BLK	8/31/12 rerun	Sample
125	LCS	8/31/12 rerun	Sample
126	113460.08	Cu rerun no dig	Sample
127	flush		Sample
128	113460.09	Cu rerun no dig	Sample
129	Soil BLK	1:25	Sample
130	Soil LCS	1:25	Sample
131	Soil QC	1:50	Sample
132	Soil Ag LCS	1:10	Sample
133	flush		Sample
134	flush		Sample
135	113799.01	1:25	Sample
136	113799.01 MS	1:25	Sample
137	113799.01 MS	1:25	Sample
138	flush		Sample
139	flush		Sample
140	flush		Sample
141	TCLP BLK	1:100	Sample
142	TCLP LCS	1:100	Sample
143	TCLP Ag LCS	1:10	Sample
144	113798.01	1:100	Sample
145	113783.01	1:100	Sample
146	113713.04	1:100	Sample
147	113801.01	1:100	Sample
148	113801.02	1:100	Sample
149	113801.02 MS	1:100	Sample
150	113801.02 MS	1:100	Sample
151	flush		Sample
152	113883.01	1:25	Sample
153	113883.02	1:25	Sample
154	113883.03	1:25	Sample
155	113883.04	1:25	Sample
156	113883.05	1:25	Sample
157	113883.06	1:25	Sample
158			Sample
159			Sample
160			Sample
	113653.01	Aqdis	Sample
	113653.02	Aqdis	Sample
	113653.04	Aqdis	Sample
	113653.05	Aqdis	Sample
	113653.06	Aqdis	Sample
	113653.07	Aqdis	Sample
	113653.07 MS	Aqdis	Sample
	113653.07 MS	Aqdis	Sample
	flush		Sample

flush		Sample
flush		Sample
113653.08	Aqdis	Sample
113653.09	Aqdis	Sample
113653.10	Aqdis	Sample
113653.11	Aqdis	Sample
113653.12	Aqdis	Sample
113653.13	Aqdis	Sample
113653.16	Aqdis	Sample
113653.17	Aqdis	Sample
113653.20	Aqdis	Sample
113689.01	Aqdis	Sample
113689.01 MS	Aqdis	Sample
113689.01 MS	Aqdis	Sample
flush		Sample
flush		Sample
flush		Sample
113689.02	Aqdis	Sample
113689.03	Aqdis	Sample
113689.04	Aqdis	Sample
113689.05	Aqdis	Sample
113689.07	Aqdis	Sample
113689.08	Aqdis	Sample
113689.09	Aqdis	Sample
113689.10	Aqdis	Sample
113689.11	Aqdis	Sample

Moved to back for rush GTA's

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Thursday, September 06, 2012 17:15:32	98	98	100	99
QC Std 2	Thursday, September 06, 2012 17:21:57	92	97	99	97
QC Std 3	Thursday, September 06, 2012 17:28:21	95	97	98	99
QC Std 5	Thursday, September 06, 2012 17:34:45	93	97	98	96
QC Std 6	Thursday, September 06, 2012 17:41:10	96	98	97	98
LLCS	Thursday, September 06, 2012 18:00:28	97	99	102	100
0.5ppb check	Thursday, September 06, 2012 18:06:53	94	96	98	96
ICSA	Thursday, September 06, 2012 18:13:18	95	98	95	95
ICSAB	Thursday, September 06, 2012 18:19:43	92	96	92	95
5ppm LRC-flush	Thursday, September 06, 2012 18:26:09	94	94	96	100
BLK	Thursday, September 06, 2012 18:45:29	95	95	98	100
QC Std 1	Thursday, September 06, 2012 18:51:56	91	94	94	95
QC Std 2	Thursday, September 06, 2012 18:58:21	90	92	94	94
QC Std 5	Thursday, September 06, 2012 19:04:45	88	90	92	95
QC Std 6	Thursday, September 06, 2012 19:11:09	95	96	97	97
BLK	Thursday, September 06, 2012 19:17:34	92	96	98	98
BLK	Thursday, September 06, 2012 19:23:59	91	94	96	96
Ag LCS	Thursday, September 06, 2012 19:30:24	96	97	98	99
Ag LCS	Thursday, September 06, 2012 19:36:48	96	99	101	100
Ag LCS	Thursday, September 06, 2012 19:43:13	99	98	101	100
LCS	Thursday, September 06, 2012 19:49:38	94	94	94	94
LCS	Thursday, September 06, 2012 19:56:03	91	90	90	93
LCS	Thursday, September 06, 2012 20:02:28	90	90	90	94
QC Std 1	Thursday, September 06, 2012 20:21:46	89	90	92	93
QC Std 2	Thursday, September 06, 2012 20:28:12	91	91	94	94
QC Std 5	Thursday, September 06, 2012 20:34:36	89	90	92	93
QC Std 6	Thursday, September 06, 2012 20:41:00	88	90	91	92
113593.01	Thursday, September 06, 2012 20:53:53	111	94	89	93
113593.02	Thursday, September 06, 2012 21:00:19	103	88	87	91
113593.02 MS	Thursday, September 06, 2012 21:06:45	103	90	88	92
113593.02 MSD	Thursday, September 06, 2012 21:13:10	97	86	85	88
113593.02 MS	Thursday, September 06, 2012 21:19:35	97	86	85	87
113593.02 MSD	Thursday, September 06, 2012 21:26:00	95	84	83	86
QC Std 1	Thursday, September 06, 2012 21:51:43	89	90	91	92
QC Std 2	Thursday, September 06, 2012 21:58:08	89	89	90	90
QC Std 5	Thursday, September 06, 2012 22:04:32	89	90	91	90
QC Std 6	Thursday, September 06, 2012 22:10:56	95	92	91	93
113593.03	Thursday, September 06, 2012 22:17:22	105	92	89	92
113593.04	Thursday, September 06, 2012 22:23:48	103	87	85	88
113593.05	Thursday, September 06, 2012 22:30:15	99	90	89	90
113593.06	Thursday, September 06, 2012 22:36:41	100	85	86	87
113593.07	Thursday, September 06, 2012 22:43:08	98	89	88	91
113593.08	Thursday, September 06, 2012 22:49:33	116	92	89	89
113593.09	Thursday, September 06, 2012 22:55:59	105	93	93	93
113593.1	Thursday, September 06, 2012 23:02:25	108	96	92	90
113593.11	Thursday, September 06, 2012 23:08:50	89	92	91	89
113593.12	Thursday, September 06, 2012 23:15:16	92	92	91	92
QC Std 1	Thursday, September 06, 2012 23:21:43	89	90	90	89

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 2	Thursday, September 06, 2012 23:28:08	89	90	91	90
QC Std 5	Thursday, September 06, 2012 23:34:32	91	90	91	90
QC Std 6	Thursday, September 06, 2012 23:40:57	93	93	91	90
113593.12 MS	Thursday, September 06, 2012 23:47:27	90	91	88	88
113593.12 MSD	Thursday, September 06, 2012 23:53:58	91	92	90	90
QC Std 1	Friday, September 07, 2012 00:52:34	88	90	90	89
QC Std 2	Friday, September 07, 2012 00:58:59	90	89	90	89
QC Std 5	Friday, September 07, 2012 01:05:23	91	89	87	87
QC Std 6	Friday, September 07, 2012 01:11:48	91	90	89	89
QC Std 1	Friday, September 07, 2012 06:56:20	90	87	87	89
QC Std 2	Friday, September 07, 2012 07:02:46	92	89	90	90
QC Std 5	Friday, September 07, 2012 07:09:10	92	90	89	91
QC Std 6	Friday, September 07, 2012 07:15:35	98	93	90	92
113593.02	Friday, September 07, 2012 07:35:10	102	85	84	86
113593.02 MS	Friday, September 07, 2012 07:41:43	106	89	85	86
113593.02 MSD	Friday, September 07, 2012 07:48:15	106	88	84	86
113593.03	Friday, September 07, 2012 08:14:26	112	91	87	90
113593.05	Friday, September 07, 2012 08:20:58	104	89	88	91
QC Std 1	Friday, September 07, 2012 08:27:26	92	88	88	89
QC Std 2	Friday, September 07, 2012 08:33:51	91	88	87	88
QC Std 5	Friday, September 07, 2012 08:40:15	96	90	88	91
QC Std 6	Friday, September 07, 2012 08:46:40	96	91	89	91
113593.08	Friday, September 07, 2012 08:53:11	126	96	89	91
113593.09	Friday, September 07, 2012 08:59:44	114	94	90	92
113593.1	Friday, September 07, 2012 09:06:17	106	93	90	92
113593.11	Friday, September 07, 2012 09:14:57	99	91	90	92
113593.12	Friday, September 07, 2012 09:21:30	99	93	91	94
113593.08	Friday, September 07, 2012 09:28:03	113	95	89	90
QC Std 1	Friday, September 07, 2012 09:41:03	96	91	89	91
QC Std 2	Friday, September 07, 2012 09:47:28	100	93	90	92
QC Std 5	Friday, September 07, 2012 09:53:52	99	92	90	91
QC Std 6	Friday, September 07, 2012 10:00:17	97	94	89	91
BLK	Friday, September 07, 2012 10:34:16	109	101	97	99
BLK	Friday, September 07, 2012 10:40:49	112	101	98	98
LCS	Friday, September 07, 2012 10:47:22	105	98	93	96

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Thursday, September 06, 2012 17:15:32	Sample Date/Time:	Thursday, September 06, 2012 18:51:56
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	-0.070465	ug/L		< 1	Ag	107	-0.070993	ug/L		< 1
Ag	109	-0.070202	ug/L		< 1	Ag	109	-0.07276	ug/L		< 1
Al	27	-0.78918	ug/L		< 50	Al	27	-0.811088	ug/L		< 50
As	75	0.055997	ug/L		< 1	As	75	0.075299	ug/L		< 1
Ba	137	-0.002067	ug/L		< 1	Ba	137	-0.002652	ug/L		< 1
Be	9	-0.001805	ug/L		< 1	Be	9	-0.006339	ug/L		< 1
Ca	44	6.139084	ug/L		< 50	Ca	44	30.391486	ug/L		< 50
Cd	111	-0.005135	ug/L		< 1	Cd	111	0.002606	ug/L		< 1
Cd	114	-0.004669	ug/L		< 1	Cd	114	0.004656	ug/L		< 1
Co	59	-0.007883	ug/L		< 1	Co	59	0.002635	ug/L		< 1
Cr	52	0.011323	ug/L		< 1	Cr	52	0.131677	ug/L		< 1
Cu	63	-0.032678	ug/L		< 1	Cu	63	-0.069352	ug/L		< 1
Cu	65	-0.008801	ug/L		< 1	Cu	65	-0.007355	ug/L		< 1
Fe	54	-4.377523	ug/L		< 50	Fe	54	-1.203668	ug/L		< 50
Fe	56	8.112143	ug/L		< 50	Fe	56	32.290642	ug/L		< 50
Ge	72		ug/L	98.107		Ge	72		ug/L	93.796	
Hg	200	-0.002381	ug/L		< 0.2	Hg	200	-0.000781	ug/L		< 0.2
Hg	202	-0.004451	ug/L		< 0.2	Hg	202	-0.004878	ug/L		< 0.2
Ho	165		ug/L	98.743		Ho	165		ug/L	94.505	
In	115		ug/L	100.228		In	115		ug/L	94.191	
K	39	0.570528	ug/L		< 50	K	39	7.025923	ug/L		< 50
Mg	24	0.004933	ug/L		< 50	Mg	24	-0.015055	ug/L		< 50
Mg	25	0.007006	ug/L		< 50	Mg	25	0.038465	ug/L		< 50
Mn	55	-0.749517	ug/L		< 5	Mn	55	-0.858697	ug/L		< 5
Na	23	-0.588157	ug/L		< 5000	Na	23	-0.432287	ug/L		< 5000
Ni	60	-0.004374	ug/L		< 1	Ni	60	-0.005689	ug/L		< 1
Ni	62	-0.004645	ug/L		< 1	Ni	62	0.013107	ug/L		< 1
P	31	-3.605029	ug/L		< 50	P	31	-3.869458	ug/L		< 50
Pb	208	-0.004421	ug/L		< 1	Pb	208	-0.009391	ug/L		< 1
Sb	121	-0.00066	ug/L		< 1	Sb	121	-0.001077	ug/L		< 1
Sb	123	-0.001749	ug/L		< 1	Sb	123	-0.000711	ug/L		< 1
Sc	45		ug/L	97.932		Sc	45		ug/L	90.717	
Se	82	-0.176425	mg/L		< 1	Se	82	-0.009356	mg/L		< 1
Tl	205	-0.0011	ug/L		< 1	Tl	205	-0.002617	ug/L		< 1
V	51	0.689225	ug/L		< 1	V	51	1.805463	ug/L		< 1
Zn	64	0.208696	ug/L		< 5	Zn	64	0.192729	ug/L		< 5
Zn	66	0.181228	ug/L		< 5	Zn	66	0.205249	ug/L		< 5
Zn	68	0.206903	ug/L		< 5	Zn	68	0.240177	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	**QC Std 1**	**Sample ID:**	**QC Std 1**
Sample Date/Time:	**Thursday, September 06, 2012 20:21:46**	**Sample Date/Time:**	**Thursday, September 06, 2012 21:51:43**
Sample Description:	**Blank**	**Sample Description:**	**Blank**

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.19954	ug/L		< 1	Ag	107	0.153838	ug/L		< 1
Ag	109	0.200081	ug/L		< 1	Ag	109	0.153102	ug/L		< 1
Al	27	-0.78551	ug/L		< 50	Al	27	-0.812944	ug/L		< 50
As	75	0.070971	ug/L		< 1	As	75	0.007673	ug/L		< 1
Ba	137	0.005325	ug/L		< 1	Ba	137	0.002954	ug/L		< 1
Be	9	-0.005989	ug/L		< 1	Be	9	-0.002286	ug/L		< 1
Ca	44	16.175752	ug/L		< 50	Ca	44	7.523033	ug/L		< 50
Cd	111	0.013808	ug/L		< 1	Cd	111	0.001224	ug/L		< 1
Cd	114	0.015356	ug/L		< 1	Cd	114	0.006501	ug/L		< 1
Co	59	0.010085	ug/L		< 1	Co	59	0.00696	ug/L		< 1
Cr	52	0.092197	ug/L		< 1	Cr	52	0.071667	ug/L		< 1
Cu	63	-0.017494	ug/L		< 1	Cu	63	0.091671	ug/L		< 1
Cu	65	0.009985	ug/L		< 1	Cu	65	0.01321	ug/L		< 1
Fe	54	0.00567	ug/L		< 50	Fe	54	-1.473741	ug/L		< 50
Fe	56	23.339772	ug/L		< 50	Fe	56	25.681771	ug/L		< 50
Ge	72		ug/L	89.924		Ge	72		ug/L	89.651	
Hg	200	-0.000409	ug/L		< 0.2	Hg	200	-0.001306	ug/L		< 0.2
Hg	202	-0.000358	ug/L		< 0.2	Hg	202	-0.001803	ug/L		< 0.2
Ho	165		ug/L	92.762		Ho	165		ug/L	91.735	
In	115		ug/L	92.47		In	115		ug/L	90.829	
K	39	6.818863	ug/L		< 50	K	39	6.790625	ug/L		< 50
Mg	24	-0.005467	ug/L		< 50	Mg	24	0.006709	ug/L		< 50
Mg	25	-0.027595	ug/L		< 50	Mg	25	0.009381	ug/L		< 50
Mn	55	-0.799709	ug/L		< 5	Mn	55	-0.817065	ug/L		< 5
Na	23	-0.348244	ug/L		< 5000	Na	23	4.801247	ug/L		< 5000
Ni	60	0.001858	ug/L		< 1	Ni	60	0.007173	ug/L		< 1
Ni	62	0.002585	ug/L		< 1	Ni	62	0.012281	ug/L		< 1
P	31	-4.98679	ug/L		< 50	P	31	-5.586418	ug/L		< 50
Pb	208	-0.008435	ug/L		< 1	Pb	208	-0.008593	ug/L		< 1
Sb	121	0.078054	ug/L		< 1	Sb	121	0.055751	ug/L		< 1
Sb	123	0.075509	ug/L		< 1	Sb	123	0.054151	ug/L		< 1
Sc	45		ug/L	88.765		Sc	45		ug/L	89.069	
Se	82	-0.448952	mg/L		< 1	Se	82	-0.140941	mg/L		< 1
Tl	205	0.020387	ug/L		< 1	Tl	205	0.006938	ug/L		< 1
V	51	1.449624	ug/L		< 1	V	51	1.101872	ug/L		< 1
Zn	64	0.189128	ug/L		< 5	Zn	64	0.178887	ug/L		< 5
Zn	66	0.204282	ug/L		< 5	Zn	66	0.187137	ug/L		< 5
Zn	68	0.266181	ug/L		< 5	Zn	68	0.22054	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	**QC Std 1**	**Sample ID:**	**QC Std 1**
Sample Date/Time:	**Thursday, September 06, 2012 23:21:43**	**Sample Date/Time:**	**Friday, September 07, 2012 00:52:34**
Sample Description:	**Blank**	**Sample Description:**	**Blank**

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.01153	ug/L		< 1	Ag	107	0.016485	ug/L		< 1
Ag	109	0.00785	ug/L		< 1	Ag	109	0.015977	ug/L		< 1
Al	27	-0.780217	ug/L		< 50	Al	27	-0.810205	ug/L		< 50
As	75	0.016746	ug/L		< 1	As	75	0.059117	ug/L		< 1
Ba	137	-0.001327	ug/L		< 1	Ba	137	-0.001865	ug/L		< 1
Be	9	-0.016137	ug/L		< 1	Be	9	0.000552	ug/L		< 1
Ca	44	-5.043109	ug/L		< 50	Ca	44	-12.574116	ug/L		< 50
Cd	111	0.014016	ug/L		< 1	Cd	111	0.019322	ug/L		< 1
Cd	114	0.014114	ug/L		< 1	Cd	114	0.021919	ug/L		< 1
Co	59	0.001465	ug/L		< 1	Co	59	0.001317	ug/L		< 1
Cr	52	0.052832	ug/L		< 1	Cr	52	0.053345	ug/L		< 1
Cu	63	-0.096026	ug/L		< 1	Cu	63	-0.108823	ug/L		< 1
Cu	65	-0.008426	ug/L		< 1	Cu	65	-0.005705	ug/L		< 1
Fe	54	-1.229769	ug/L		< 50	Fe	54	1.251155	ug/L		< 50
Fe	56	24.816208	ug/L		< 50	Fe	56	23.873513	ug/L		< 50
Ge	72		ug/L	90.257		Ge	72		ug/L	90.266	
Hg	200	-0.00172	ug/L		< 0.2	Hg	200	-0.002353	ug/L		< 0.2
Hg	202	-0.00343	ug/L		< 0.2	Hg	202	-0.002954	ug/L		< 0.2
Ho	165		ug/L	89.45		Ho	165		ug/L	88.824	
In	115		ug/L	90.082		In	115		ug/L	90.109	
K	39	8.582535	ug/L		< 50	K	39	8.153328	ug/L		< 50
Mg	24	-0.004552	ug/L		< 50	Mg	24	0.097075	ug/L		< 50
Mg	25	0.056959	ug/L		< 50	Mg	25	0.097	ug/L		< 50
Mn	55	-0.928601	ug/L		< 5	Mn	55	-0.930893	ug/L		< 5
Na	23	3.919229	ug/L		< 5000	Na	23	3.085269	ug/L		< 5000
Ni	60	0.004604	ug/L		< 1	Ni	60	0.003181	ug/L		< 1
Ni	62	0.034922	ug/L		< 1	Ni	62	0.019586	ug/L		< 1
P	31	-8.078879	ug/L		< 50	P	31	-3.507515	ug/L		< 50
Pb	208	-0.01169	ug/L		< 1	Pb	208	-0.010767	ug/L		< 1
Sb	121	0.009473	ug/L		< 1	Sb	121	0.013232	ug/L		< 1
Sb	123	0.008926	ug/L		< 1	Sb	123	0.012066	ug/L		< 1
Sc	45		ug/L	89.237		Sc	45		ug/L	88.179	
Se	82	-0.067136	mg/L		< 1	Se	82	0.161197	mg/L		< 1
Tl	205	0.002326	ug/L		< 1	Tl	205	0.003018	ug/L		< 1
V	51	1.006693	ug/L		< 1	V	51	0.869506	ug/L		< 1
Zn	64	0.165679	ug/L		< 5	Zn	64	0.180725	ug/L		< 5
Zn	66	0.199313	ug/L		< 5	Zn	66	0.189608	ug/L		< 5
Zn	68	0.231192	ug/L		< 5	Zn	68	0.205072	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	**QC Std 1**	**Sample ID:**	**QC Std 1**
Sample Date/Time:	**Friday, September 07, 2012 06:56:20**	**Sample Date/Time:**	**Friday, September 07, 2012 08:27:26**
Sample Description:	**Blank**	**Sample Description:**	**Blank**

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.123651	ug/L		< 1	Ag	107	1.215645	ug/L		< 1
Ag	109	0.117359	ug/L		< 1	Ag	109	1.212195	ug/L		< 1
Al	27	-0.77231	ug/L		< 50	Al	27	-0.781788	ug/L		< 50
As	75	0.030556	ug/L		< 1	As	75	-0.05965	ug/L		< 1
Ba	137	0.001352	ug/L		< 1	Ba	137	0.0018	ug/L		< 1
Be	9	-0.000106	ug/L		< 1	Be	9	-0.010349	ug/L		< 1
Ca	44	-26.518105	ug/L		< 50	Ca	44	-32.132469	ug/L		< 50
Cd	111	0.01683	ug/L		< 1	Cd	111	0.016207	ug/L		< 1
Cd	114	0.020593	ug/L		< 1	Cd	114	0.013874	ug/L		< 1
Co	59	0.005315	ug/L		< 1	Co	59	-0.009745	ug/L		< 1
Cr	52	0.083397	ug/L		< 1	Cr	52	0.023569	ug/L		< 1
Cu	63	-0.107076	ug/L		< 1	Cu	63	-0.107682	ug/L		< 1
Cu	65	-0.004965	ug/L		< 1	Cu	65	-0.006666	ug/L		< 1
Fe	54	-0.868346	ug/L		< 50	Fe	54	-0.513681	ug/L		< 50
Fe	56	25.646631	ug/L		< 50	Fe	56	19.512539	ug/L		< 50
Ge	72		ug/L	86.758		Ge	72		ug/L	88.448	
Hg	200	-0.001363	ug/L		< 0.2	Hg	200	-0.000572	ug/L		< 0.2
Hg	202	-0.004068	ug/L		< 0.2	Hg	202	0.000713	ug/L		< 0.2
Ho	165		ug/L	89.37		Ho	165		ug/L	88.745	
In	115		ug/L	86.969		In	115		ug/L	87.936	
K	39	3.995345	ug/L		< 50	K	39	2.602435	ug/L		< 50
Mg	24	0.269888	ug/L		< 50	Mg	24	0.186703	ug/L		< 50
Mg	25	0.297677	ug/L		< 50	Mg	25	0.134743	ug/L		< 50
Mn	55	-0.971386	ug/L		< 5	Mn	55	-0.888502	ug/L		< 5
Na	23	3.512347	ug/L		< 5000	Na	23	4.151505	ug/L		< 5000
Ni	60	0.006856	ug/L		< 1	Ni	60	0.009834	ug/L		< 1
Ni	62	0.010632	ug/L		< 1	Ni	62	0.002181	ug/L		< 1
P	31	-6.399727	ug/L		< 50	P	31	-1.880792	ug/L		< 50
Pb	208	-0.006072	ug/L		< 1	Pb	208	-0.001921	ug/L		< 1
Sb	121	0.040195	ug/L		< 1	Sb	121	0.033089	ug/L		< 1
Sb	123	0.040163	ug/L		< 1	Sb	123	0.028666	ug/L		< 1
Sc	45		ug/L	90.048		Sc	45		ug/L	92.447	
Se	82	0.006769	mg/L		< 1	Se	82	-0.040608	mg/L		< 1
Tl	205	0.00373	ug/L		< 1	Tl	205	0.003836	ug/L		< 1
V	51	0.941799	ug/L		< 1	V	51	0.525243	ug/L		< 1
Zn	64	0.19523	ug/L		< 5	Zn	64	0.178892	ug/L		< 5
Zn	66	0.180931	ug/L		< 5	Zn	66	0.204984	ug/L		< 5
Zn	68	0.1963	ug/L		< 5	Zn	68	0.196825	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 09:41:03
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.504789	ug/L		< 1
Ag	109	0.493296	ug/L		< 1
Al	27	-0.790761	ug/L		< 50
As	75	-0.016947	ug/L		< 1
Ba	137	0.000794	ug/L		< 1
Be	9	-0.010761	ug/L		< 1
Ca	44	-36.316289	ug/L		< 50
Cd	111	-0.000081	ug/L		< 1
Cd	114	0.005519	ug/L		< 1
Co	59	-0.015323	ug/L		< 1
Cr	52	-0.001542	ug/L		< 1
Cu	63	-0.124448	ug/L		< 1
Cu	65	-0.013073	ug/L		< 1
Fe	54	-3.405341	ug/L		< 50
Fe	56	0.423482	ug/L		< 50
Ge	72		ug/L	90.792	
Hg	200	-0.001708	ug/L		< 0.2
Hg	202	-0.004033	ug/L		< 0.2
Ho	165		ug/L	90.65	
In	115		ug/L	88.614	
K	39	-0.012363	ug/L		< 50
Mg	24	0.163955	ug/L		< 50
Mg	25	0.135218	ug/L		< 50
Mn	55	-0.947382	ug/L		< 5
Na	23	2.800332	ug/L		< 5000
Ni	60	0.007045	ug/L		< 1
Ni	62	-0.001408	ug/L		< 1
P	31	-4.181301	ug/L		< 50
Pb	208	-0.002429	ug/L		< 1
Sb	121	0.016332	ug/L		< 1
Sb	123	0.017159	ug/L		< 1
Sc	45		ug/L	95.8	
Se	82	0.042951	mg/L		< 1
Tl	205	0.004001	ug/L		< 1
V	51	0.397102	ug/L		< 1
Zn	64	0.166021	ug/L		< 5
Zn	66	0.164793	ug/L		< 5
Zn	68	0.172732	ug/L		< 5

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 17:21:57
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.112985	ug/L	96.726		100
As	75	106.457593	ug/L	107.1		100
Ba	137	105.292531	ug/L	104.561		100
Be	9	109.214257	ug/L	108.133		100
Cd	111	106.94268	ug/L	106.411		100
Cd	114	106.457326	ug/L	105.928		100
Co	59	109.169347	ug/L	108.518		100
Cr	52	110.639332	ug/L	109.544		100
Cu	63	107.085779	ug/L	107.193		100
Cu	65	106.418568	ug/L	106.525		100
Ge	72		ug/L		97.066	
Hg	200	1.065978	ug/L	106.598		1
Hg	202	1.066936	ug/L	106.694		1
Ho	165		ug/L		96.515	
In	115		ug/L		98.855	
K	39	1110.63153	ug/L	110.731		1000
Mn	55	110.564599	ug/L	110.124		100
Ni	60	110.709833	ug/L	109.831		100
Ni	62	110.482541	ug/L	109.606		100
Pb	208	104.012383	ug/L	104.012		100
Sb	121	103.698014	ug/L	103.388		100
Sb	123	102.947889	ug/L	102.64		100
Sc	45		ug/L		92.143	
Se	82	104.651842	mg/L	104.443		100
V	51	106.73237	ug/L	106.307		100
Zn	64	105.98589	ug/L	105.249		100
Zn	66	105.972073	ug/L	105.235		100
Zn	68	106.805839	ug/L	106.063		100

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 18:58:21
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	99.614264	ug/L	99.217		100
As	75	107.014423	ug/L	107.66		100
Ba	137	109.084387	ug/L	108.326		100
Be	9	96.525306	ug/L	95.57		100
Cd	111	106.674341	ug/L	106.144		100
Cd	114	105.334447	ug/L	104.81		100
Co	59	107.486381	ug/L	106.845		100
Cr	52	108.742873	ug/L	107.666		100
Cu	63	105.647797	ug/L	105.754		100
Cu	65	105.038189	ug/L	105.143		100
Ge	72		ug/L		91.948	
Hg	200	1.057544	ug/L	105.754		1
Hg	202	1.051701	ug/L	105.17		1
Ho	165		ug/L		93.877	
In	115		ug/L		93.997	
K	39	1085.66727	ug/L	108.242		1000
Mn	55	107.981838	ug/L	107.552		100
Ni	60	110.626048	ug/L	109.748		100
Ni	62	109.700686	ug/L	108.83		100
Pb	208	101.398261	ug/L	101.398		100
Sb	121	105.272548	ug/L	104.958		100
Sb	123	104.714102	ug/L	104.401		100
Sc	45		ug/L		90.209	
Se	82	98.37729	mg/L	98.181		100
V	51	105.638961	ug/L	105.218		100
Zn	64	104.127858	ug/L	103.404		100
Zn	66	101.798518	ug/L	101.091		100
Zn	68	100.674252	ug/L	99.974		100

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 17:34:45
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.155657	ug/L	106.287		15.2
Ag	109	15.942976	ug/L	104.888		15.2
Al	27	257.581101	ug/L	98.69		261
Ba	137	224.358846	ug/L	103.87		216
Be	9	75.521221	ug/L	106.518		70.9
Cd	111	10.041551	ug/L	104.709		9.59
Cd	114	10.025694	ug/L	104.543		9.59
Ge	72		ug/L		97.025	
Ho	165		ug/L		95.953	
In	115		ug/L		97.77	
Sc	45		ug/L		93.302	
Se	82	118.799815	mg/L	102.414		116
Tl	205	53.292931	ug/L	102.882		51.8

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 19:04:45
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.692708	ug/L	109.82		15.2
Ag	109	16.61625	ug/L	109.317		15.2
Al	27	268.684526	ug/L	102.944		261
Ba	137	236.39736	ug/L	109.443		216
Be	9	69.332927	ug/L	97.79		70.9
Cd	111	10.188583	ug/L	106.242		9.59
Cd	114	10.186408	ug/L	106.219		9.59
Ge	72		ug/L		90.275	
Ho	165		ug/L		95.088	
In	115		ug/L		91.883	
Sc	45		ug/L		88.454	
Se	82	112.629571	mg/L	97.094		116
Tl	205	51.184925	ug/L	98.813		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	QC Std 6	Sample ID:	QC Std 6
Sample Date/Time:	Thursday, September 06, 2012 17:41:10	Sample Date/Time:	Thursday, September 06, 2012 19:11:09
Sample Description:	CV-Minerals	Sample Description:	CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10297.7282	ug/L	102.977		10000
Fe	54	10160.5743	ug/L	101.606		10000
Fe	56	10515.1495	ug/L	105.151		10000
Ge	72		ug/L		98.198	
Ho	165		ug/L		98.406	
In	115		ug/L		96.628	
K	39	10379.3923	ug/L	103.794		10000
Sc	45		ug/L		96.476	

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10785.2548	ug/L	107.853		10000
Fe	54	9700.77179	ug/L	97.008		10000
Fe	56	10272.0038	ug/L	102.72		10000
Ge	72		ug/L		95.66	
Ho	165		ug/L		96.605	
In	115		ug/L		96.539	
K	39	10442.3531	ug/L	104.424		10000
Sc	45		ug/L		94.574	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 20:28:12
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	96.775595	ug/L	96.39		100
As	75	104.884975	ug/L	105.518		100
Ba	137	105.468831	ug/L	104.736		100
Be	9	93.521723	ug/L	92.596		100
Cd	111	103.102147	ug/L	102.589		100
Cd	114	103.204703	ug/L	102.691		100
Co	59	104.213096	ug/L	103.592		100
Cr	52	105.733487	ug/L	104.687		100
Cu	63	101.382924	ug/L	101.484		100
Cu	65	101.588995	ug/L	101.691		100
Ge	72		ug/L		91.349	
Hg	200	1.052854	ug/L	105.285		1
Hg	202	1.037607	ug/L	103.761		1
Ho	165		ug/L		93.725	
In	115		ug/L		94.014	
K	39	1090.40222	ug/L	108.714		1000
Mn	55	105.196581	ug/L	104.777		100
Ni	60	104.787465	ug/L	103.956		100
Ni	62	105.293304	ug/L	104.458		100
Pb	208	99.95602	ug/L	99.956		100
Sb	121	100.769213	ug/L	100.468		100
Sb	123	100.91312	ug/L	100.611		100
Sc	45		ug/L		90.66	
Se	82	95.669607	mg/L	95.479		100
V	51	102.171881	ug/L	101.765		100
Zn	64	100.928906	ug/L	100.227		100
Zn	66	99.916611	ug/L	99.222		100
Zn	68	100.256409	ug/L	99.559		100

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 21:58:08
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	102.953587	ug/L	102.543		100
As	75	104.516234	ug/L	105.147		100
Ba	137	106.881773	ug/L	106.139		100
Be	9	93.826775	ug/L	92.898		100
Cd	111	105.608378	ug/L	105.083		100
Cd	114	105.012573	ug/L	104.49		100
Co	59	104.802158	ug/L	104.177		100
Cr	52	106.603963	ug/L	105.548		100
Cu	63	101.935033	ug/L	102.037		100
Cu	65	100.385756	ug/L	100.486		100
Ge	72		ug/L		88.901	
Hg	200	1.088226	ug/L	108.823		1
Hg	202	1.073201	ug/L	107.32		1
Ho	165		ug/L		90.457	
In	115		ug/L		89.53	
K	39	1109.0436	ug/L	110.573		1000
Mn	55	106.023819	ug/L	105.601		100
Ni	60	105.046389	ug/L	104.213		100
Ni	62	105.084622	ug/L	104.251		100
Pb	208	102.64684	ug/L	102.647		100
Sb	121	103.660993	ug/L	103.351		100
Sb	123	103.314728	ug/L	103.006		100
Sc	45		ug/L		88.738	
Se	82	95.001617	mg/L	94.812		100
V	51	104.17883	ug/L	103.764		100
Zn	64	100.900996	ug/L	100.2		100
Zn	66	100.030897	ug/L	99.336		100
Zn	68	99.497524	ug/L	98.806		100

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 20:34:36
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.568189	ug/L	109.001		15.2
Ag	109	16.431808	ug/L	108.104		15.2
Al	27	267.306483	ug/L	102.416		261
Ba	137	231.347919	ug/L	107.106		216
Be	9	69.099123	ug/L	97.46		70.9
Cd	111	10.022179	ug/L	104.507		9.59
Cd	114	10.00091	ug/L	104.285		9.59
Ge	72		ug/L		90.496	
Ho	165		ug/L		92.896	
In	115		ug/L		92.445	
Sc	45		ug/L		88.987	
Se	82	114.430601	mg/L	98.647		116
Tl	205	52.839136	ug/L	102.006		51.8

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 22:04:32
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.309576	ug/L	107.3		15.2
Ag	109	16.257262	ug/L	106.956		15.2
Al	27	273.207034	ug/L	104.677		261
Ba	137	224.275831	ug/L	103.831		216
Be	9	67.374326	ug/L	95.027		70.9
Cd	111	10.029357	ug/L	104.581		9.59
Cd	114	10.031195	ug/L	104.601		9.59
Ge	72		ug/L		89.567	
Ho	165		ug/L		90.496	
In	115		ug/L		91.095	
Sc	45		ug/L		88.891	
Se	82	110.848615	mg/L	95.559		116
Tl	205	53.535142	ug/L	103.35		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Thursday, September 06, 2012 20:41:00
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11091.1908	ug/L	110.912		10000
Fe	54	10418.1456	ug/L	104.181		10000
Fe	56	10683.3875	ug/L	106.834		10000
Ge	72		ug/L		90.126	
Ho	165		ug/L		91.957	
In	115		ug/L		90.554	
K	39	10803.7641	ug/L	108.038		10000
Sc	45		ug/L		87.919	

Sample ID: QC Std 6
Sample Date/Time: Thursday, September 06, 2012 22:10:56
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10977.1792	ug/L	109.772		10000
Fe	54	9939.10984	ug/L	99.391		10000
Fe	56	10008.0377	ug/L	100.08		10000
Ge	72		ug/L		92.268	
Ho	165		ug/L		92.69	
In	115		ug/L		91.355	
K	39	10176.0952	ug/L	101.761		10000
Sc	45		ug/L		95.057	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 23:28:08
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.007428	ug/L	102.597		100
As	75	105.589959	ug/L	106.227		100
Ba	137	103.444407	ug/L	102.725		100
Be	9	96.293811	ug/L	95.34		100
Cd	111	106.839346	ug/L	106.308		100
Cd	114	105.677894	ug/L	105.152		100
Co	59	105.79631	ug/L	105.165		100
Cr	52	107.476549	ug/L	106.412		100
Cu	63	104.381455	ug/L	104.486		100
Cu	65	104.534691	ug/L	104.639		100
Ge	72		ug/L		89.553	
Hg	200	1.098585	ug/L	109.859		1
Hg	202	1.044361	ug/L	104.436		1
Ho	165		ug/L		90.285	
In	115		ug/L		90.824	
K	39	1088.02537	ug/L	108.477		1000
Mn	55	107.399963	ug/L	106.972		100
Ni	60	106.925168	ug/L	106.077		100
Ni	62	107.747324	ug/L	106.892		100
Pb	208	102.633645	ug/L	102.634		100
Sb	121	102.268699	ug/L	101.963		100
Sb	123	101.513876	ug/L	101.21		100
Sc	45		ug/L		89.05	
Se	82	97.459974	mg/L	97.265		100
V	51	105.472792	ug/L	105.053		100
Zn	64	103.406949	ug/L	102.688		100
Zn	66	102.23294	ug/L	101.522		100
Zn	68	102.049895	ug/L	101.341		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 00:58:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	100.61261	ug/L	100.212		100
As	75	103.648631	ug/L	104.274		100
Ba	137	102.121778	ug/L	101.412		100
Be	9	90.179277	ug/L	89.286		100
Cd	111	104.628519	ug/L	104.108		100
Cd	114	103.551763	ug/L	103.037		100
Co	59	102.778971	ug/L	102.166		100
Cr	52	103.297907	ug/L	102.275		100
Cu	63	100.164966	ug/L	100.265		100
Cu	65	99.555259	ug/L	99.655		100
Ge	72		ug/L		88.501	
Hg	200	1.081424	ug/L	108.142		1
Hg	202	1.059628	ug/L	105.963		1
Ho	165		ug/L		89.109	
In	115		ug/L		89.79	
K	39	1068.99571	ug/L	106.58		1000
Mn	55	104.801425	ug/L	104.384		100
Ni	60	103.681839	ug/L	102.859		100
Ni	62	104.073164	ug/L	103.247		100
Pb	208	102.473459	ug/L	102.473		100
Sb	121	101.17482	ug/L	100.872		100
Sb	123	100.035699	ug/L	99.736		100
Sc	45		ug/L		90.436	
Se	82	92.711649	mg/L	92.527		100
V	51	102.529886	ug/L	102.121		100
Zn	64	99.485537	ug/L	98.794		100
Zn	66	99.193944	ug/L	98.504		100
Zn	68	97.359045	ug/L	96.682		100

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 23:34:32
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.304042	ug/L	107.263		15.2
Ag	109	16.314353	ug/L	107.331		15.2
Al	27	269.911922	ug/L	103.415		261
Ba	137	219.83785	ug/L	101.777		216
Be	9	67.466267	ug/L	95.157		70.9
Cd	111	10.011127	ug/L	104.391		9.59
Cd	114	9.916993	ug/L	103.41		9.59
Ge	72		ug/L		90.389	
Ho	165		ug/L		89.905	
In	115		ug/L		91.463	
Sc	45		ug/L		90.956	
Se	82	113.030576	mg/L	97.44		116
Tl	205	54.025913	ug/L	104.297		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 01:05:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.590443	ug/L	109.148		15.2
Ag	109	16.554947	ug/L	108.914		15.2
Al	27	262.923448	ug/L	100.737		261
Ba	137	222.078672	ug/L	102.814		216
Be	9	64.983236	ug/L	91.655		70.9
Cd	111	10.373649	ug/L	108.172		9.59
Cd	114	10.193759	ug/L	106.296		9.59
Ge	72		ug/L		88.591	
Ho	165		ug/L		86.849	
In	115		ug/L		87.367	
Sc	45		ug/L		90.613	
Se	82	110.516485	mg/L	95.273		116
Tl	205	54.474661	ug/L	105.163		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	**QC Std 6**	**Sample ID:**	**QC Std 6**
Sample Date/Time:	**Thursday, September 06, 2012 23:40:57**	**Sample Date/Time:**	**Friday, September 07, 2012 01:11:48**
Sample Description:	**CV-Minerals**	**Sample Description:**	**CV-Minerals**

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11036.2793	ug/L	110.363		10000
Fe	54	10311.5979	ug/L	103.116		10000
Fe	56	10409.3229	ug/L	104.093		10000
Ge	72		ug/L		93.123	
Ho	165		ug/L		90.258	
In	115		ug/L		90.773	
K	39	10617.0211	ug/L	106.17		10000
Sc	45		ug/L		92.672	

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11160.3026	ug/L	111.603		10000
Fe	54	10079.6803	ug/L	100.797		10000
Fe	56	10408.4177	ug/L	104.084		10000
Ge	72		ug/L		90.429	
Ho	165		ug/L		88.753	
In	115		ug/L		89.094	
K	39	10253.9056	ug/L	102.539		10000
Sc	45		ug/L		91.148	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 07:02:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.76198	ug/L	103.349		100
As	75	105.370189	ug/L	106.006		100
Ba	137	104.59202	ug/L	103.865		100
Be	9	86.532448	ug/L	85.676		100
Cd	111	106.706207	ug/L	106.175		100
Cd	114	106.33957	ug/L	105.811		100
Co	59	103.208204	ug/L	102.593		100
Cr	52	105.890694	ug/L	104.842		100
Cu	63	100.326555	ug/L	100.427		100
Cu	65	99.903214	ug/L	100.003		100
Ge	72		ug/L		88.795	
Hg	200	1.064265	ug/L	106.426		1
Hg	202	1.065636	ug/L	106.564		1
Ho	165		ug/L		90.245	
In	115		ug/L		89.737	
K	39	1076.16884	ug/L	107.295		1000
Mn	55	107.042363	ug/L	106.616		100
Ni	60	104.117455	ug/L	103.291		100
Ni	62	103.566308	ug/L	102.744		100
Pb	208	106.867845	ug/L	106.868		100
Sb	121	102.407044	ug/L	102.101		100
Sb	123	101.434122	ug/L	101.131		100
Sc	45		ug/L		91.818	
Se	82	97.032447	mg/L	96.839		100
V	51	103.964112	ug/L	103.55		100
Zn	64	100.960909	ug/L	100.259		100
Zn	66	99.791743	ug/L	99.098		100
Zn	68	98.622357	ug/L	97.937		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 08:33:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	106.181942	ug/L	105.759		100
As	75	106.316061	ug/L	106.958		100
Ba	137	104.873113	ug/L	104.144		100
Be	9	90.110849	ug/L	89.219		100
Cd	111	108.423699	ug/L	107.884		100
Cd	114	108.028516	ug/L	107.491		100
Co	59	104.835838	ug/L	104.211		100
Cr	52	107.4494	ug/L	106.386		100
Cu	63	101.290825	ug/L	101.392		100
Cu	65	101.591682	ug/L	101.693		100
Ge	72		ug/L		88.029	
Hg	200	1.073133	ug/L	107.313		1
Hg	202	1.072306	ug/L	107.231		1
Ho	165		ug/L		88.096	
In	115		ug/L		87.477	
K	39	1076.45949	ug/L	107.324		1000
Mn	55	107.808813	ug/L	107.379		100
Ni	60	106.144798	ug/L	105.302		100
Ni	62	104.585018	ug/L	103.755		100
Pb	208	109.279761	ug/L	109.28		100
Sb	121	103.037634	ug/L	102.729		100
Sb	123	102.516499	ug/L	102.21		100
Sc	45		ug/L		90.612	
Se	82	98.041145	mg/L	97.845		100
V	51	104.806395	ug/L	104.389		100
Zn	64	102.890704	ug/L	102.175		100
Zn	66	101.495228	ug/L	100.79		100
Zn	68	100.237678	ug/L	99.541		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 07:09:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.574182	ug/L	109.041		15.2
Ag	109	16.531621	ug/L	108.761		15.2
Al	27	271.219832	ug/L	103.916		261
Ba	137	225.015531	ug/L	104.174		216
Be	9	62.546827	ug/L	88.218		70.9
Cd	111	10.237591	ug/L	106.753		9.59
Cd	114	10.234177	ug/L	106.717		9.59
Ge	72		ug/L		89.987	
Ho	165		ug/L		91.033	
In	115		ug/L		89.458	
Sc	45		ug/L		92.005	
Se	82	114.565879	mg/L	98.764		116
Tl	205	55.246364	ug/L	106.653		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 08:40:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.164548	ug/L	112.925		15.2
Ag	109	16.889604	ug/L	111.116		15.2
Al	27	264.078595	ug/L	101.18		261
Ba	137	223.362929	ug/L	103.409		216
Be	9	61.315657	ug/L	86.482		70.9
Cd	111	10.157261	ug/L	105.915		9.59
Cd	114	10.219883	ug/L	106.568		9.59
Ge	72		ug/L		90.227	
Ho	165		ug/L		90.913	
In	115		ug/L		88.184	
Sc	45		ug/L		95.61	
Se	82	113.053451	mg/L	97.46		116
Tl	205	55.144716	ug/L	106.457		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID:	**QC Std 6**	**Sample ID:**	**QC Std 6**
Sample Date/Time:	**Friday, September 07, 2012 07:15:35**	**Sample Date/Time:**	**Friday, September 07, 2012 08:46:40**
Sample Description:	**CV-Minerals**	**Sample Description:**	**CV-Minerals**

Concentration Results				QC Std	Int Std	True	Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value	Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11508.9265	ug/L	115.089		10000	Al	27	11491.3733	ug/L	114.914		10000
Fe	54	10150.4426	ug/L	101.504		10000	Fe	54	10215.7226	ug/L	102.157		10000
Fe	56	10266.6016	ug/L	102.666		10000	Fe	56	10421.914	ug/L	104.219		10000
Ge	72		ug/L		93.113		Ge	72		ug/L		91.427	
Ho	165		ug/L		91.998		Ho	165		ug/L		91.409	
In	115		ug/L		90.103		In	115		ug/L		88.746	
K	39	10397.0268	ug/L	103.97		10000	K	39	10338.4857	ug/L	103.385		10000
Sc	45		ug/L		97.955		Sc	45		ug/L		95.553	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 09:47:28
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.368695	ug/L	96.981		100
As	75	102.538533	ug/L	103.157		100
Ba	137	100.973954	ug/L	100.272		100
Be	9	96.125473	ug/L	95.174		100
Cd	111	105.649708	ug/L	105.124		100
Cd	114	104.473337	ug/L	103.954		100
Co	59	96.21639	ug/L	95.643		100
Cr	52	100.249329	ug/L	99.257		100
Cu	63	94.48324	ug/L	94.578		100
Cu	65	94.312223	ug/L	94.407		100
Ge	72		ug/L		92.687	
Hg	200	1.066315	ug/L	106.632		1
Hg	202	1.01789	ug/L	101.789		1
Ho	165		ug/L		92.087	
In	115		ug/L		90.273	
K	39	1023.43502	ug/L	102.037		1000
Mn	55	100.944	ug/L	100.542		100
Ni	60	97.295169	ug/L	96.523		100
Ni	62	97.937575	ug/L	97.16		100
Pb	208	106.519004	ug/L	106.519		100
Sb	121	99.651112	ug/L	99.353		100
Sb	123	97.804555	ug/L	97.512		100
Sc	45		ug/L		99.763	
Se	82	100.840949	mg/L	100.64		100
V	51	97.667662	ug/L	97.279		100
Zn	64	96.549555	ug/L	95.878		100
Zn	66	94.324562	ug/L	93.669		100
Zn	68	93.828327	ug/L	93.176		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 09:53:52
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.068287	ug/L	112.291		15.2
Ag	109	16.703383	ug/L	109.891		15.2
Al	27	254.856911	ug/L	97.646		261
Ba	137	220.658568	ug/L	102.157		216
Be	9	70.613522	ug/L	99.596		70.9
Cd	111	10.197104	ug/L	106.331		9.59
Cd	114	10.176594	ug/L	106.117		9.59
Ge	72		ug/L		92.199	
Ho	165		ug/L		91.208	
In	115		ug/L		90.059	
Sc	45		ug/L		99.079	
Se	82	119.453185	mg/L	102.977		116
Tl	205	56.956529	ug/L	109.955		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 10:00:17
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10961.0051	ug/L	109.61		10000
Fe	54	10078.0942	ug/L	100.781		10000
Fe	56	10421.0611	ug/L	104.211		10000
Ge	72		ug/L		93.797	
Ho	165		ug/L		91.344	
In	115		ug/L		88.778	
K	39	10044.1547	ug/L	100.442		10000
Sc	45		ug/L		97.378	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593
Total & Dissolved Metals

Sample ID: ICSA
Sample Date/Time: Thursday, September 06, 2012 18:13:18
Sample Description:

Concentration Results

Analyte	Mass	Conc.	Units	QC Std % R	Int Std % R	True Value
Ag	107	0.022329	ug/L			< 1
Ag	109	0.015076	ug/L			< 1
Al	27	51040.18	ug/L	102.08		50000
As	75	0.012524	ug/L			< 1
Ba	137	0.107142	ug/L			< 1
Be	9	0.002204	ug/L			< 1
Ca	44	52880.57	ug/L	105.76		50000
Cd	111	0.044246	ug/L			< 1
Cd	114	0.041467	ug/L			< 1
Co	59	0.115918	ug/L			< 1
Cr	52	0.584863	ug/L			< 1
Cu	63	0.918004	ug/L			< 1
Cu	65	0.61801	ug/L			< 1
Fe	54	48199.92	ug/L	96.40		50000
Fe	56	49378.62	ug/L	98.76		50000
Fe	57	54721.37	ug/L	109.44		50000
Ge	72		ug/L		98.404	
Hg	200	0.049365	ug/L			< 0.1
Hg	202	0.054148	ug/L			< 0.1
Ho	165		ug/L		95.365	
In	115		ug/L		94.572	
K	39	49382.71	ug/L	98.77		50000
Mg	24	50675.53	ug/L	101.35		50000
Mg	25	52058.35	ug/L	104.12		50000
Mn	55	-0.66903	ug/L			< 5
Na	23	51523.46	ug/L	103.05		50000
Ni	60	1.305315	ug/L			1.3
Ni	62	0.740441	ug/L			< 1
P	31	51414.75	ug/L	102.83		50000
Pb	208	0.088906	ug/L			< 1
Sb	121	0.074427	ug/L			< 1
Sb	123	0.072759	ug/L			< 1
Sc	45		ug/L		95.385	
Se	82	-0.02981	mg/L			< 1
Tl	205	-0.00279	ug/L			< 1
V	51	3.26334	ug/L			< 5
Zn	64	4.064416	ug/L			< 5
Zn	66	0.851648	ug/L			< 5
Zn	68	0.468235	ug/L			< 5

Sample ID: ICSAB
Sample Date/Time: Thursday, September 06, 2012 18:19:43
Sample Description:

Concentration Results

Analyte	Mass	Conc.	Units	QC Std % R	Int Std % R	True Value
Ag	107	9.013652	ug/L	90.14		10
Ag	109	8.977228	ug/L	89.77		10
Al	27	53343.77	ug/L	106.69		50000
As	75	9.652218	ug/L	96.52		10
Ba	137	10.42693	ug/L	104.27		10
Be	9	8.870807	ug/L	88.71		10
Ca	44	53179.04	ug/L	106.36		50000
Cd	111	9.414568	ug/L	94.15		10
Cd	114	9.494782	ug/L	94.95		10
Co	59	9.546719	ug/L	95.47		10
Cr	52	10.3947	ug/L	103.95		10
Cu	63	9.446077	ug/L	94.46		10
Cu	65	9.249026	ug/L	92.49		10
Fe	54	48330.9	ug/L	96.66		50000
Fe	56	50293.03	ug/L	100.59		50000
Fe	57	54140.21	ug/L	108.28		50000
Ge	72		ug/L		96.32	
Hg	200	0.990908	ug/L	99.09		1
Hg	202	0.996032	ug/L	99.60		1
Ho	165		ug/L		95.135	
In	115		ug/L		91.844	
K	39	51332.46	ug/L	102.66		50000
Mg	24	51977.7	ug/L	103.96		50000
Mg	25	52998.19	ug/L	106.00		50000
Mn	55	8.984413	ug/L	89.84		10
Na	23	54307.54	ug/L	108.62		50000
Ni	60	10.81138	ug/L	95.06		10
Ni	62	9.836471	ug/L	98.36		10
P	31	52973.47	ug/L	105.95		50000
Pb	208	8.729211	ug/L	87.29		10
Sb	121	10.25554	ug/L	102.56		10
Sb	123	10.25176	ug/L	102.52		10
Sc	45		ug/L		92.274	
Se	82	8.660605	mg/L	86.61		10
Tl	205	8.617827	ug/L	86.21		10
V	51	13.39856	ug/L	101.35		10
Zn	64	13.09263	ug/L	90.28		10
Zn	66	9.53987	ug/L	95.40		10
Zn	68	9.227265	ug/L	92.27		10

Sample ID: 113593.01
Sample Date/Time: Thursday, September 06, 2012 20:53:53
Autosampler Position: 37
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.01.49086

Do not report Fe 57 ICVs high

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6031.334	ug/L	
Be	9	0.002746	8.333	ug/L	0.010
B	10	147.460969	12672.620	ug/L	1.597
B	11	163.440238	66187.417	ug/L	0.792
C	12		814349.366	ug/L	
Na	23	63370.665969 LR	520618479.340	ug/L	521.118
Mg	24	20193.113664	112982949.057	ug/L	490.761
Mg	25	20204.077616	15626256.971	ug/L	464.856
Al	27	2.605391	31276.855	ug/L	0.138
Si	28		52950626.613	ug/L	
P	31	179.099666	107617.285	ug/L	3.442
S	32		94720089.408	ug/L	
Cl	35		13878760.969	ug/L	
K	39	16636.938330	231339472.884	ug/L	64.819
Ca	44	47274.580984	18634253.923	ug/L	839.714
Sc	45		246723.284	ug/L	
Ti	47	1.873712	2996.190	ug/L	0.043
Ti	48	27.986919	310315.745	ug/L	2.493
V	51	0.913563	52466.873	ug/L	0.124
ClO	51		54521.971	ug/L	
Cr	52	0.086810	13203.513	ug/L	0.004
Cr	53	2.854302	17332.689	ug/L	0.451
Fe	54	33427.111407	34696753.172	ug/L	1121.223
Mn	55	1243.623751	23452827.195	ug/L	4.461
Fe	56	34202.980102	605092273.521	ug/L	163.189
Fe	57	~~38884.159262~~	14868405.164	ug/L	1150.240
Co	59	1.204445	17947.211	ug/L	0.001
Ni	60	8.965359	27153.432	ug/L	0.016
Ni	62	7.892538	3619.090	ug/L	0.171
Cu	63	1.073037	8644.530	ug/L	0.027
Zn	64	3.440717	11987.808	ug/L	0.055
Cu	65	0.512142	1873.879	ug/L	0.004
Zn	66	3.116321	6474.369	ug/L	0.066
Zn	68	4.538914	6599.128	ug/L	0.072
Ge	72		187891.245	ug/L	
As	75	33.958061	61321.167	ug/L	0.972
Se	74	470.059021	-818.576	mg/L	102.265
ArCl	77		1479.802	ug/L	
Br	79		135282.450	ug/L	

ICV high

Br	81		166437.837	ug/L	
Y	89		475927.002	ug/L	
Mo	95	13.157037	61469.060	ug/L	0.156
Rh	103		428406.926	ug/L	
Ag	107	0.288641	4892.086	ug/L	0.108
Ag	109	0.284186	4664.625	ug/L	0.105
Cd	111	0.043650	224.672	ug/L	0.000
Cd	114	0.036352	450.682	ug/L	0.002
In	115		562563.520	ug/L	
Sb	121	0.071997	856.049	ug/L	0.001
Sb	123	0.072494	665.584	ug/L	0.002
Ba	137	46.503597	229710.234	ug/L	0.548
Ba	138	45.967970	1459507.947	ug/L	0.218
Tb	159		643627.167	ug/L	
Ho	165		605145.690	ug/L	
Hg	200	0.001179	26.334	ug/L	0.001
Hg	202	-0.000951	28.667	ug/L	0.000
Tl	205	-0.006970	773.041	ug/L	0.002
Pb	208	0.078806	3932.374	ug/L	0.001
Bi	209		456517.104	ug/L	
Se	77	3.271140	1465.451	mg/L	0.063
Se	78	-2.371359	18672.077	mg/L	0.975
Se	82	1.614264	335.878	mg/L	0.052

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		111.188
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 93.700
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 89.367
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 93.421
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.02
Sample Date/Time: Thursday, September 06, 2012 21:00:19
Autosampler Position: 38
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02.49087

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9926.750	ug/L	
Be	9	0.025505	14.667	ug/L	0.007
B	10	223.411618	17727.111	ug/L	1.645
B	11	255.974316	95717.903	ug/L	4.448
C	12		995890.868	ug/L	
Na	23	S	S	ug/L	S
Mg	24	20545.288319	106572120.774	ug/L	319.316
Mg	25	20847.487701	14946332.913	ug/L	265.821
Al	27	4.174722	41368.048	ug/L	0.131
Si	28		33113162.621	ug/L	
P	31	403.000272	208600.556	ug/L	4.826
S	32		98894222.098	ug/L	
Cl	35		14660375.565	ug/L	
K	39	20325.907564	261748652.844	ug/L	363.323
Ca	44	34016.508500	12437160.313	ug/L	628.771
Sc	45		228694.268	ug/L	
Ti	47	1.969973	2870.149	ug/L	0.086
Ti	48	19.838854	203189.345	ug/L	0.956
V	51	1.346932	54509.185	ug/L	0.059
ClO	51		56783.134	ug/L	
Cr	52	0.186002	13337.732	ug/L	0.019
Cr	53	4.165980	17933.190	ug/L	0.247
Fe	54	13135.073460	12679091.695	ug/L	210.056
Mn	55	3598.574612	62866283.835	ug/L	23.157
Fe	56	13201.104192	218904450.040	ug/L	418.209
Fe	57	15161.036222	5381858.772	ug/L	2.681
Co	59	3.866296	51870.170	ug/L	0.176
Ni	60	11.114463	31178.035	ug/L	0.388
Ni	62	10.396812	4400.109	ug/L	0.148
Cu	63	0.884432	6790.270	ug/L	0.017
Zn	64	1.925363	6604.687	ug/L	0.095
Cu	65	0.166498	649.030	ug/L	0.003
Zn	66	1.701232	3498.375	ug/L	0.047
Zn	68	6.515670	8598.150	ug/L	0.041
Ge	72		175578.119	ug/L	
As	75	17.470041	29337.670	ug/L	0.486
Se	74	202.608194	8180.894	mg/L	75.676
ArCl	77		1452.131	ug/L	
Br	79		418419.887	ug/L	

Br	81		471639.657	ug/L	
Y	89		453500.278	ug/L	
Mo	95	32.163893	140383.076	ug/L	0.470
Rh	103		412259.784	ug/L	
Ag	107	0.031926	1616.164	ug/L	0.036
Ag	109	0.028606	1519.813	ug/L	0.036
Cd	111	0.096368	375.011	ug/L	0.001
Cd	114	0.077063	718.702	ug/L	0.001
In	115		548138.915	ug/L	
Sb	121	0.161687	1746.519	ug/L	0.003
Sb	123	0.158075	1316.789	ug/L	0.001
Ba	137	178.289930	857703.345	ug/L	4.711
Ba	138	188.381344	5825768.913	ug/L	3.324
Tb	159		629726.500	ug/L	
Ho	165		586949.287	ug/L	
Hg	200	0.066172	151.336	ug/L	0.002
Hg	202	0.049602	155.336	ug/L	0.003
Tl	205	0.042570	1965.565	ug/L	0.002
Pb	208	0.005235	1336.052	ug/L	0.002
Bi	209		401468.353	ug/L	
Se	77	3.271140	1465.451	mg/L	0.038
Se	78	-2.532217	18598.264	mg/L	0.421
Se	82	4.743430	990.861	mg/L	0.099

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.063
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 87.559
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 87.076
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 90.612
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.02 MS
Sample Date/Time: Thursday, September 06, 2012 21:06:45
Autosampler Position: 39
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MS.49088

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		10455.343	ug/L	
Be	9	765.636091	234007.253	ug/L	8.872
B	10	222.159350	17607.544	ug/L	0.239
B	11	253.167715	94567.955	ug/L	1.742
C	12		1499329.776	ug/L	
Na	23	96512.965436	734074997.032	ug/L	611.441
Mg	24	31528.419400	163328665.147	ug/L	549.915
Mg	25	31754.595004	22739644.995	ug/L	143.649
Al	27	10881.762596	85720086.248	ug/L	184.275
Si	28		32593473.562	ug/L	
P	31	10322.950166	5024247.405	ug/L	128.794
S	32		103152156.687	ug/L	
Cl	35		15117996.980	ug/L	
K	39	30384.235361	390354743.425	ug/L	573.243
Ca	44	45044.012648	16437207.862	ug/L	1614.008
Sc	45		228415.286	ug/L	
Ti	47	22.610223	22723.943	ug/L	0.759
Ti	48	24.360461	249817.631	ug/L	1.747
V	51	1003.189364	13596711.554	ug/L	15.763
ClO	51		13986338.368	ug/L	
Cr	52	999.429434	11082526.334	ug/L	10.078
Cr	53	821.764470	1177500.931	ug/L	20.088
Fe	54	22793.086888	21927024.927	ug/L	464.317
Mn	55	4581.936994	79943899.929	ug/L	30.226
Fe	56	23127.585417	380068494.559	ug/L	618.948
Fe	57	26173.751185	9270717.948	ug/L	239.354
Co	59	944.728535	12493944.774	ug/L	17.128
Ni	60	916.930752	2562747.844	ug/L	9.024
Ni	62	841.319961	350834.551	ug/L	26.293
Cu	63	842.665717	5450959.197	ug/L	8.959
Zn	64	864.285527	2567240.861	ug/L	9.073
Cu	65	826.978039	2599647.082	ug/L	5.112
Zn	66	778.099202	1375110.904	ug/L	7.478
Zn	68	774.670312	971845.873	ug/L	3.626
Ge	72		179546.652	ug/L	
As	75	1028.584292	1783381.365	ug/L	31.617
Se	74	-90.410466	18384.256	mg/L	65.575
ArCl	77		131420.814	ug/L	
Br	79		353525.712	ug/L	

Br	81		398385.203	ug/L	
Y	89		462348.194	ug/L	
Mo	95	1142.850505	5097881.042	ug/L	24.672
Rh	103		417682.609	ug/L	
Ag	107	63.125185	783454.100	ug/L	0.156
Ag	109	63.051609	754536.319	ug/L	4.274
Cd	111	1064.516452	3194379.771	ug/L	18.178
Cd	114	1044.048845	7272294.863	ug/L	12.720
In	115		555650.235	ug/L	
Sb	121	1130.893861	11657909.815	ug/L	14.068
Sb	123	1123.638812	8893503.101	ug/L	15.897
Ba	137	1328.905339	6481566.363	ug/L	25.082
Ba	138	1325.883757	41567744.957	ug/L	27.597
Tb	159		638563.578	ug/L	
Ho	165		598791.608	ug/L	
Hg	200	1.036026	2068.923	ug/L	0.021
Hg	202	1.002621	2612.735	ug/L	0.028
Tl	205	994.007897	24897932.489	ug/L	7.037
Pb	208	978.627381	33619927.076	ug/L	5.273
Bi	209		410504.695	ug/L	
Se	77	864.463009	129958.312	mg/L	0.423
Se	78	903.332227	434274.341	mg/L	18.925
Se	82	867.876637	181657.932	mg/L	16.020

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.937
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 89.538
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 88.269
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.440
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.02 MSD
Sample Date/Time: Thursday, September 06, 2012 21:13:10
Autosampler Position: 40
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MSD.49089

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9741.217	ug/L	
Be	9	792.197366	227927.554	ug/L	24.657
B	10	231.283718	17249.523	ug/L	8.128
B	11	261.967461	92104.141	ug/L	5.943
C	12		1402995.324	ug/L	
Na	23	101254.123722	725032555.677	ug/L	2486.177
Mg	24	32846.422026	160200489.900	ug/L	696.513
Mg	25	33327.246329	22471184.585	ug/L	424.725
Al	27	11092.063624	82264871.603	ug/L	226.819
Si	28		32471977.001	ug/L	
P	31	10892.799043	4991590.170	ug/L	51.034
S	32		101204760.174	ug/L	
Cl	35		14891997.836	ug/L	
K	39	30789.297517	372381753.076	ug/L	794.572
Ca	44	45261.609359	15546606.091	ug/L	1835.890
Sc	45		215103.883	ug/L	
Ti	47	23.373029	22078.334	ug/L	0.987
Ti	48	29.492680	285372.819	ug/L	0.093
V	51	1038.631439	13249490.763	ug/L	38.614
ClO	51		13606403.626	ug/L	
Cr	52	1018.288066	10627319.420	ug/L	46.644
Cr	53	845.121810	1139576.414	ug/L	31.463
Fe	54	23406.170565	21200740.117	ug/L	239.226
Mn	55	4708.241054	77331820.655	ug/L	136.198
Fe	56	24013.196924	371319948.268	ug/L	887.608
Fe	57	27393.276271	9131598.716	ug/L	1219.875
Co	59	974.473264	12130667.738	ug/L	36.971
Ni	60	954.195540	2510337.047	ug/L	34.853
Ni	62	867.209986	340418.091	ug/L	30.006
Cu	63	877.593685	5344410.727	ug/L	21.680
Zn	64	903.241311	2525685.296	ug/L	25.489
Cu	65	865.374877	2561307.916	ug/L	13.816
Zn	66	804.313550	1338140.293	ug/L	21.746
Zn	68	814.208654	961412.525	ug/L	32.698
Ge	72		171961.903	ug/L	
As	75	1032.090710	1714175.375	ug/L	21.650
Se	74	-74.194699	17087.321	mg/L	55.182
ArCl	77		129732.410	ug/L	
Br	79		334074.661	ug/L	

Br	81		377050.989	ug/L	
Y	89		445438.244	ug/L	
Mo	95	1192.403190	5094917.674	ug/L	15.135
Rh	103		402089.798	ug/L	
Ag	107	71.207387	846949.258	ug/L	4.583
Ag	109	73.596905	843867.768	ug/L	1.288
Cd	111	1106.026117	3179887.637	ug/L	24.622
Cd	114	1093.914182	7300059.472	ug/L	28.318
In	115		532399.233	ug/L	
Sb	121	1164.401655	11500248.433	ug/L	24.775
Sb	123	1151.906507	8734590.165	ug/L	37.607
Ba	137	1367.944705	6392052.004	ug/L	46.272
Ba	138	1350.703048	40572204.383	ug/L	31.431
Tb	159		609450.553	ug/L	
Ho	165		569927.940	ug/L	
Hg	200	1.089696	2069.590	ug/L	0.022
Hg	202	1.016878	2521.375	ug/L	0.012
Tl	205	1035.125216	24672127.379	ug/L	25.312
Pb	208	1017.162551	33250872.162	ug/L	26.353
Bi	209		387950.284	ug/L	
Se	77	842.930145	126745.533	mg/L	13.263
Se	78	892.650663	429372.867	mg/L	6.949
Se	82	839.879470	175797.694	mg/L	16.911

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.938
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 85.756
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 84.575
Sb
Sb
Ba
Ba
Tb
> Ho 87.984
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.02 MS
Sample Date/Time: Thursday, September 06, 2012 21:19:35
Autosampler Position: 41
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MS.49090

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9314.102	ug/L	
Be	9	791.851130	227012.018	ug/L	6.654
B	10	216.588831	16104.413	ug/L	2.307
B	11	242.945663	85149.474	ug/L	1.707
C	12		1473098.359	ug/L	
Na	23	95447.209222	681003349.901	ug/L	1109.846
Mg	24	30666.425065	149018404.423	ug/L	12.245
Mg	25	31459.632907	21133759.557	ug/L	744.525
Al	27	11102.840117	82047279.366	ug/L	192.287
Si	28		29096940.429	ug/L	
P	31	10803.908162	4932111.782	ug/L	210.077
S	32		97437665.280	ug/L	
Cl	35		15794730.788	ug/L	
K	39	29174.190106	351613604.586	ug/L	92.490
Ca	44	42228.929356	14458452.654	ug/L	618.214
Sc	45		214255.473	ug/L	
Ti	47	23.544497	22158.533	ug/L	0.310
Ti	48	26.987467	259921.646	ug/L	1.450
V	51	1028.719387	13078163.510	ug/L	6.660
ClO	51		13438669.151	ug/L	
Cr	52	1009.774977	10503485.936	ug/L	7.952
Cr	53	838.044283	1126189.802	ug/L	2.169
Fe	54	22698.383484	20484680.319	ug/L	427.440
Mn	55	4387.127615	71804449.982	ug/L	48.028
Fe	56	22461.720329	346372630.893	ug/L	137.807
Fe	57	25590.517588	8502434.223	ug/L	124.416
Co	59	976.928099	12119131.942	ug/L	0.259
Ni	60	958.789379	2513631.355	ug/L	1.635
Ni	62	871.617343	340928.933	ug/L	12.819
Cu	63	881.397036	5348027.011	ug/L	2.490
Zn	64	910.002900	2535482.234	ug/L	1.468
Cu	65	864.089666	2548018.857	ug/L	6.749
Zn	66	805.528027	1335285.252	ug/L	7.554
Zn	68	812.083860	955550.854	ug/L	13.076
Ge	72		171910.203	ug/L	
As	75	1025.535595	1702926.977	ug/L	9.292
Se	74	-87.461181	17521.189	mg/L	94.207
ArCl	77		128380.426	ug/L	
Br	79		374574.721	ug/L	

Br	81		421012.061	ug/L	
Y	89		442489.770	ug/L	
Mo	95	1174.298435	5016373.371	ug/L	2.056
Rh	103		404528.640	ug/L	
Ag	107	906.575531	10797001.288	ug/L	16.907
Ag	109	912.845457	10486411.347	ug/L	10.655
Cd	111	1083.651073	3125380.785	ug/L	3.624
Cd	114	1073.831537	7188724.978	ug/L	13.456
In	115		534007.196	ug/L	
Sb	121	1136.897160	11263962.204	ug/L	0.519
Sb	123	1134.357510	8629239.631	ug/L	4.081
Ba	137	1320.025548	6188077.895	ug/L	8.367
Ba	138	1305.418093	39336108.599	ug/L	5.882
Tb	159		605146.828	ug/L	
Ho	165		566709.227	ug/L	
Hg	200	1.124231	2122.936	ug/L	0.013
Hg	202	1.049214	2586.394	ug/L	0.014
Tl	205	1044.516200	24761995.285	ug/L	5.191
Pb	208	1023.371880	33272963.077	ug/L	3.813
Bi	209		394031.170	ug/L	
Se	77	843.547252	126837.607	mg/L	20.106
Se	78	879.547381	423360.134	mg/L	4.461
Se	82	836.990271	175192.940	mg/L	5.808

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.556
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 85.730
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 84.831
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 87.487
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.02 MSD
Sample Date/Time: Thursday, September 06, 2012 21:26:00
Autosampler Position: 42
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MSD.49091

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9201.992	ug/L	
Be	9	793.177012	224379.159	ug/L	17.629
B	10	213.581547	15673.991	ug/L	2.740
B	11	241.108945	83378.450	ug/L	7.095
C	12		1453278.146	ug/L	
Na	23	91716.236451	645549267.405	ug/L	3399.886
Mg	24	31105.080277	149109686.753	ug/L	1278.992
Mg	25	31361.112150	20784463.919	ug/L	859.061
Al	27	11397.201868	83086469.873	ug/L	385.703
Si	28		29474685.364	ug/L	
P	31	11056.907046	4979545.486	ug/L	311.986
S	32		102469769.794	ug/L	
Cl	35		15785253.608	ug/L	
K	39	29484.063853	350646208.175	ug/L	489.343
Ca	44	44366.479273	14986461.172	ug/L	834.024
Sc	45		211463.794	ug/L	
Ti	47	24.408098	22627.355	ug/L	1.016
Ti	48	21.357757	202047.155	ug/L	3.385
V	51	1046.572059	13125068.001	ug/L	39.768
ClO	51		13654555.667	ug/L	
Cr	52	1035.306447	10622661.721	ug/L	46.067
Cr	53	853.168981	1130818.459	ug/L	37.389
Fe	54	22324.013389	19876818.736	ug/L	679.061
Mn	55	4455.253156	71933099.205	ug/L	174.992
Fe	56	23023.372968	350160565.298	ug/L	835.319
Fe	57	25978.801557	8516435.516	ug/L	668.261
Co	59	977.865237	11969367.670	ug/L	23.556
Ni	60	963.385995	2491972.399	ug/L	27.276
Ni	62	870.633553	336010.424	ug/L	26.100
Cu	63	889.586145	5325824.886	ug/L	23.241
Zn	64	919.676733	2528322.652	ug/L	21.976
Cu	65	879.144955	2557441.587	ug/L	32.920
Zn	66	820.370378	1341880.176	ug/L	17.549
Zn	68	819.524742	951530.467	ug/L	20.082
Ge	72		169007.291	ug/L	
As	75	1045.859764	1707283.808	ug/L	9.806
Se	74	-107.912417	17875.915	mg/L	64.124
ArCl	77		128356.063	ug/L	
Br	79		372143.883	ug/L	

Br	81		413291.479	ug/L	
Y	89		442160.682	ug/L	
Mo	95	1184.145185	4972351.556	ug/L	26.913
Rh	103		394939.122	ug/L	
Ag	107	912.914683	10626761.613	ug/L	10.591
Ag	109	901.993534	10128693.054	ug/L	16.067
Cd	111	1110.491270	3130493.684	ug/L	2.582
Cd	114	1092.881841	7150570.599	ug/L	21.765
In	115		521957.310	ug/L	
Sb	121	1161.773679	11249767.081	ug/L	20.126
Sb	123	1162.297347	8641649.202	ug/L	16.443
Ba	137	1340.216152	6140726.763	ug/L	8.735
Ba	138	1324.613015	39012896.376	ug/L	5.382
Tb	159		591294.170	ug/L	
Ho	165		555296.931	ug/L	
Hg	200	1.101237	2036.915	ug/L	0.044
Hg	202	1.079441	2604.733	ug/L	0.051
Tl	205	1056.846585	24539914.482	ug/L	30.304
Pb	208	1034.127314	32935277.810	ug/L	25.884
Bi	209		385204.494	ug/L	
Se	77	843.763100	126869.812	mg/L	2.243
Se	78	878.475720	422868.378	mg/L	8.956
Se	82	844.677848	176802.068	mg/L	2.124

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		95.298
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 84.282
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 82.917
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 85.725
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.03
Sample Date/Time: Thursday, September 06, 2012 22:17:22
Autosampler Position: 46
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.03.49099

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		10556.794	ug/L	
Be	9	0.051441	23.000	ug/L	0.005
B	10	240.488302	19365.466	ug/L	6.203
B	11	264.851072	100531.151	ug/L	8.623
C	12		991691.974	ug/L	
Na	23	86773.007461	671310584.791	ug/L	27.239
Mg	24	20582.381203	108394256.524	ug/L	562.227
Mg	25	21197.463600	15425514.284	ug/L	965.492
Al	27	2.781875	30875.484	ug/L	0.029
Si	28		33853079.057	ug/L	
P	31	400.487113	210585.825	ug/L	7.880
S	32		102238316.930	ug/L	
Cl	35		14903749.538	ug/L	
K	39	20276.250686	265013101.160	ug/L	1027.868
Ca	44	34639.651190	12850511.638	ug/L	2167.292
Sc	45		232328.204	ug/L	
Ti	47	1.919289	2863.813	ug/L	0.101
Ti	48	21.538473	224974.191	ug/L	3.179
V	51	1.103731	52007.555	ug/L	0.074
ClO	51		53856.633	ug/L	
Cr	52	0.188929	13573.207	ug/L	0.046
Cr	53	3.283449	16935.598	ug/L	0.270
Fe	54	13874.615969	13591705.004	ug/L	574.273
Mn	55	3777.810528	66989877.829	ug/L	161.067
Fe	56	14276.792161	239952149.441	ug/L	762.983
Fe	57	15858.187831	5712155.235	ug/L	839.271
Co	59	3.995244	54367.682	ug/L	0.266
Ni	60	11.260824	32055.748	ug/L	0.679
Ni	62	10.467971	4497.157	ug/L	0.392
Cu	63	0.994075	7611.261	ug/L	0.066
Zn	64	2.057271	7100.825	ug/L	0.140
Cu	65	0.175574	688.033	ug/L	0.006
Zn	66	1.780404	3693.120	ug/L	0.097
Zn	68	6.256440	8393.958	ug/L	0.407
Ge	72		184377.858	ug/L	
As	75	17.095734	30144.505	ug/L	0.183
Se	74	262.465086	6507.688	mg/L	4.737
ArCl	77		1436.795	ug/L	
Br	79		441989.904	ug/L	

Br	81		492196.530	ug/L	
Y	89		480609.290	ug/L	
Mo	95	31.858270	145994.772	ug/L	0.263
Rh	103		431369.526	ug/L	
Ag	107	0.249567	4382.441	ug/L	0.047
Ag	109	0.255998	4304.736	ug/L	0.048
Cd	111	0.106898	416.347	ug/L	0.008
Cd	114	0.075951	728.370	ug/L	0.005
In	115		561636.453	ug/L	
Sb	121	0.184923	2031.247	ug/L	0.001
Sb	123	0.174623	1481.482	ug/L	0.003
Ba	137	168.300501	829699.861	ug/L	3.642
Ba	138	180.176510	5709598.082	ug/L	3.276
Tb	159		631241.369	ug/L	
Ho	165		593572.113	ug/L	
Hg	200	0.064234	149.003	ug/L	0.005
Hg	202	0.044439	144.003	ug/L	0.000
Tl	205	0.043107	1998.906	ug/L	0.005
Pb	208	0.002208	1247.378	ug/L	0.002
Bi	209		429274.160	ug/L	
Se	77	2.386306	1333.431	mg/L	0.025
Se	78	-2.707003	18518.059	mg/L	0.312
Se	82	5.167044	1079.530	mg/L	0.045

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.700
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

91.948

89.220

91.634

Sample ID: 113593.04
Sample Date/Time: Thursday, September 06, 2012 22:23:48
Autosampler Position: 47
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.04.49100

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6998.707	ug/L	
Be	9	0.026554	15.000	ug/L	0.010
B	10	254.366705	20127.458	ug/L	3.427
B	11	277.749583	103632.802	ug/L	0.366
C	12		957228.929	ug/L	
Na	23	S	S	ug/L	S
Mg	24	31578.531882	163462077.784	ug/L	884.817
Mg	25	32235.324318	23066685.720	ug/L	720.467
Al	27	6.235842	57483.855	ug/L	0.559
Si	28		37836549.486	ug/L	
P	31	348.845347	181927.043	ug/L	4.963
S	32		100745845.012	ug/L	
Cl	35		19978716.061	ug/L	
K	39	22020.205682	282911993.060	ug/L	840.343
Ca	44	35882.210770	13089292.561	ug/L	1722.186
Sc	45		228296.898	ug/L	
Ti	47	2.093660	2982.186	ug/L	0.162
Ti	48	24.076120	246951.217	ug/L	2.296
V	51	1.988700	63043.654	ug/L	0.284
ClO	51		65813.568	ug/L	
Cr	52	0.256127	14088.053	ug/L	0.035
Cr	53	6.089009	20615.901	ug/L	0.761
Fe	54	14567.901904	14029314.383	ug/L	228.479
Mn	55	958.134722	16720257.931	ug/L	23.278
Fe	56	14727.173454	243284042.603	ug/L	451.816
Fe	57	16765.386393	5937814.375	ug/L	544.292
Co	59	0.843841	11835.486	ug/L	0.039
Ni	60	9.761764	27345.004	ug/L	0.180
Ni	62	8.969516	3797.164	ug/L	0.186
Cu	63	1.474207	10587.935	ug/L	0.054
Zn	64	1.283698	4688.514	ug/L	0.053
Cu	65	0.239470	877.051	ug/L	0.005
Zn	66	0.915029	2104.598	ug/L	0.010
Zn	68	4.355366	5873.623	ug/L	0.177
Ge	72		173486.828	ug/L	
As	75	11.054019	18216.784	ug/L	0.593
Se	74	58.616647	12834.560	mg/L	31.131
ArCl	77		1826.535	ug/L	
Br	79		1228369.090	ug/L	

Br	81		1324236.465	ug/L	
Y	89		461567.463	ug/L	
Mo	95	7.454174	32123.657	ug/L	0.512
Rh	103		411119.694	ug/L	
Ag	107	0.102036	2432.354	ug/L	0.025
Ag	109	0.095570	2271.644	ug/L	0.025
Cd	111	0.034534	187.004	ug/L	0.011
Cd	114	0.033499	409.013	ug/L	0.009
In	115		536358.583	ug/L	
Sb	121	0.109164	1185.089	ug/L	0.004
Sb	123	0.112132	937.659	ug/L	0.001
Ba	137	128.401583	603798.638	ug/L	7.211
Ba	138	136.575221	4127345.228	ug/L	8.687
Tb	159		600675.197	ug/L	
Ho	165		568210.529	ug/L	
Hg	200	0.025691	70.334	ug/L	0.008
Hg	202	0.009509	52.334	ug/L	0.003
Tl	205	-0.009915	656.030	ug/L	0.000
Pb	208	0.039121	2397.477	ug/L	0.002
Bi	209		402705.945	ug/L	
Se	77	5.469874	1793.510	mg/L	0.316
Se	78	-3.537053	18137.172	mg/L	0.587
Se	82	13.437121	2810.584	mg/L	0.267

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.884
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 86.516
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 85.204
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 87.719
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.05
Sample Date/Time: Thursday, September 06, 2012 22:30:15
Autosampler Position: 48
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.05.49101

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5568.372	ug/L	
Be	9	0.140549	48.001	ug/L	0.007
B	10	26.598736	2146.275	ug/L	0.722
B	11	28.987155	10973.730	ug/L	0.245
C	12		703594.942	ug/L	
Na	23	13754.182360	100819789.757	ug/L	66.304
Mg	24	6252.342043	31211206.145	ug/L	115.878
Mg	25	6492.648168	4480413.084	ug/L	10.161
Al	27	15.271402	124049.639	ug/L	0.030
Si	28		26628848.345	ug/L	
P	31	140.391498	77906.821	ug/L	0.958
S	32		95506231.033	ug/L	
Cl	35		12021612.844	ug/L	
K	39	1928.116154	24717042.631	ug/L	15.971
Ca	44	15996.999367	5648906.422	ug/L	197.267
Sc	45		220111.550	ug/L	
Ti	47	1.510386	2335.990	ug/L	0.009
Ti	48	12.404368	121198.582	ug/L	0.632
V	51	1.324990	52170.473	ug/L	0.089
ClO	51		54678.504	ug/L	
Cr	52	0.676834	18076.896	ug/L	0.023
Cr	53	3.742011	16678.119	ug/L	0.242
Fe	54	16350.630110	15173956.953	ug/L	694.022
Mn	55	2469.266550	41523241.388	ug/L	45.391
Fe	56	16831.411176	267593832.935	ug/L	207.761
Fe	57	18904.587560	6455340.898	ug/L	541.039
Co	59	1.180907	15711.389	ug/L	0.003
Ni	60	4.267559	11571.809	ug/L	0.025
Ni	62	3.852776	1605.825	ug/L	0.046
Cu	63	12.307266	77723.297	ug/L	0.222
Zn	64	26.136456	75629.208	ug/L	0.776
Cu	65	12.236528	37183.937	ug/L	0.271
Zn	66	26.411725	45433.371	ug/L	0.389
Zn	68	26.026861	31853.025	ug/L	0.047
Ge	72		181198.779	ug/L	
As	75	0.658947	854.722	ug/L	0.101
Se	74	116.131891	11413.389	mg/L	158.930
ArCl	77		1142.750	ug/L	
Br	79		58258.900	ug/L	

Br	81		86009.349	ug/L	
Y	89		481745.543	ug/L	
Mo	95	1.576722	7141.542	ug/L	0.020
Rh	103		437576.973	ug/L	
Ag	107	0.054704	1945.896	ug/L	0.019
Ag	109	0.053958	1867.878	ug/L	0.014
Cd	111	0.152226	553.356	ug/L	0.004
Cd	114	0.151686	1261.100	ug/L	0.006
In	115		561322.704	ug/L	
Sb	121	0.078551	922.389	ug/L	0.000
Sb	123	0.077232	702.059	ug/L	0.004
Ba	137	6.015163	29709.430	ug/L	0.018
Ba	138	5.982833	189841.203	ug/L	0.004
Tb	159		622935.716	ug/L	
Ho	165		585715.589	ug/L	
Hg	200	0.010942	44.334	ug/L	0.005
Hg	202	0.002326	36.000	ug/L	0.003
Tl	205	0.014302	1269.435	ug/L	0.001
Pb	208	1.067311	37022.841	ug/L	0.002
Bi	209		426083.471	ug/L	
Se	77	0.875863	1108.068	mg/L	0.645
Se	78	-3.012099	18378.059	mg/L	0.231
Se	82	0.722321	149.181	mg/L	0.292

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.195
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 90.362
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.170
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 90.421
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.06
Sample Date/Time: Thursday, September 06, 2012 22:36:41
Autosampler Position: 49
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.06.49102

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6702.476	ug/L	
Be	9	-0.004407	5.333	ug/L	0.003
B	10	342.788183	26193.620	ug/L	6.948
B	11	382.551939	137831.153	ug/L	4.840
C	12		1241612.208	ug/L	
Na	23	S	S	ug/L	S
Mg	24	49152.274083	246167380.010	ug/L	1305.484
Mg	25	49519.574175	34282097.234	ug/L	1308.232
Al	27	3.922335	38026.529	ug/L	0.136
Si	28		30856857.351	ug/L	
P	31	108.161625	63034.236	ug/L	5.055
S	32		102645354.725	ug/L	
Cl	35		18277751.857	ug/L	
K	39	19668.813646	244607211.751	ug/L	1.874
Ca	44	45594.735744	16085202.183	ug/L	820.320
Sc	45		220813.557	ug/L	
Ti	47	1.403766	2244.299	ug/L	0.008
Ti	48	29.521943	293230.549	ug/L	0.097
V	51	1.976445	60851.321	ug/L	0.134
ClO	51		63712.186	ug/L	
Cr	52	0.343328	14563.947	ug/L	0.008
Cr	53	5.423167	19036.447	ug/L	0.546
Fe	54	10235.205694	9554551.613	ug/L	195.817
Mn	55	2186.612465	36892849.577	ug/L	43.436
Fe	56	10613.879718	170722296.691	ug/L	137.379
Fe	57	11873.439583	4072365.486	ug/L	399.300
Co	59	4.547307	58800.511	ug/L	0.085
Ni	60	21.105038	57102.715	ug/L	0.356
Ni	62	20.101532	8160.744	ug/L	0.469
Cu	63	2.109103	14214.590	ug/L	0.093
Zn	64	1.993175	6573.007	ug/L	0.015
Cu	65	0.347069	1175.421	ug/L	0.000
Zn	66	1.330791	2745.442	ug/L	0.030
Zn	68	10.147918	12705.000	ug/L	0.191
Ge	72		171160.319	ug/L	
As	75	17.668995	28931.986	ug/L	0.232
Se	74	120.560625	10664.538	mg/L	13.132
ArCl	77		1701.510	ug/L	
Br	79		1078393.744	ug/L	

Br	81		1164365.551	ug/L	
Y	89		471263.989	ug/L	
Mo	95	26.051855	110834.652	ug/L	0.368
Rh	103		404896.598	ug/L	
Ag	107	-0.018079	991.731	ug/L	0.011
Ag	109	-0.022278	908.055	ug/L	0.010
Cd	111	0.089059	347.010	ug/L	0.003
Cd	114	0.081807	738.037	ug/L	0.003
In	115		538359.823	ug/L	
Sb	121	0.162225	1720.513	ug/L	0.004
Sb	123	0.164382	1341.665	ug/L	0.004
Ba	137	337.909777	1596974.119	ug/L	3.780
Ba	138	359.090913	10908700.500	ug/L	1.976
Tb	159		607834.839	ug/L	
Ho	165		566231.144	ug/L	
Hg	200	0.014593	49.667	ug/L	0.001
Hg	202	0.006501	45.001	ug/L	0.004
Tl	205	-0.009179	670.698	ug/L	0.004
Pb	208	0.027150	2001.436	ug/L	0.000
Bi	209		384311.179	ug/L	
Se	77	4.835273	1698.826	mg/L	0.708
Se	78	-2.603859	18565.389	mg/L	0.054
Se	82	12.335575	2580.013	mg/L	0.153

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.511
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 85.356
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 85.522
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 87.413
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.07
Sample Date/Time: Thursday, September 06, 2012 22:43:08
Autosampler Position: 50
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.07.49103

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5141.453	ug/L	
Be	9	0.001650	7.000	ug/L	0.005
B	10	259.730850	19573.912	ug/L	3.157
B	11	298.241290	105968.121	ug/L	5.299
C	12		1028353.152	ug/L	
Na	23	74997.620991	542964780.023	ug/L	1694.938
Mg	24	19878.230125	98019668.585	ug/L	447.372
Mg	25	20376.978547	13891214.551	ug/L	126.706
Al	27	36.206055	279509.416	ug/L	0.478
Si	28		27091058.355	ug/L	
P	31	169.987321	90638.631	ug/L	2.175
S	32		99883882.621	ug/L	
Cl	35		12922387.179	ug/L	
K	39	12272.697687	150646262.437	ug/L	33.220
Ca	44	65913.206811	22889648.833	ug/L	2159.625
Sc	45		217457.121	ug/L	
Ti	47	2.830178	3517.383	ug/L	0.096
Ti	48	69.004327	678267.597	ug/L	4.019
V	51	1.421401	52772.599	ug/L	0.119
ClO	51		54748.914	ug/L	
Cr	52	0.464473	15618.628	ug/L	0.016
Cr	53	3.198986	15742.109	ug/L	0.233
Fe	54	30325.412094	27746557.935	ug/L	870.689
Mn	55	2962.587207	49212646.351	ug/L	32.929
Fe	56	32019.272497	499402388.754	ug/L	726.183
Fe	57	34772.586295	11721316.626	ug/L	174.569
Co	59	1.853675	23989.183	ug/L	0.028
Ni	60	6.363667	17007.397	ug/L	0.103
Ni	62	4.959277	2025.579	ug/L	0.048
Cu	63	0.829954	6120.788	ug/L	0.016
Zn	64	1.569517	5275.041	ug/L	0.014
Cu	65	0.209838	746.705	ug/L	0.007
Zn	66	1.229165	2532.378	ug/L	0.033
Zn	68	3.210516	4229.359	ug/L	0.069
Ge	72		178459.947	ug/L	
As	75	18.639247	31840.800	ug/L	0.141
Se	74	357.979567	3050.113	mg/L	18.349
ArCl	77		1314.108	ug/L	
Br	79		298039.912	ug/L	

Br	81		340634.853	ug/L	
Y	89		471182.577	ug/L	
Mo	95	0.176024	822.712	ug/L	0.001
Rh	103		416920.798	ug/L	
Ag	107	-0.029796	873.051	ug/L	0.007
Ag	109	-0.033076	803.044	ug/L	0.013
Cd	111	0.005136	105.668	ug/L	0.000
Cd	114	0.009203	254.339	ug/L	0.001
In	115		552206.479	ug/L	
Sb	121	0.094631	1072.074	ug/L	0.003
Sb	123	0.093189	816.106	ug/L	0.006
Ba	137	67.424667	326899.048	ug/L	0.918
Ba	138	72.204818	2250143.375	ug/L	0.685
Tb	159		619310.320	ug/L	
Ho	165		586904.911	ug/L	
Hg	200	0.000733	24.667	ug/L	0.000
Hg	202	0.000427	31.334	ug/L	0.002
Tl	205	-0.009127	695.700	ug/L	0.004
Pb	208	0.192276	7632.657	ug/L	0.005
Bi	209		405024.120	ug/L	
Se	77	2.368431	1330.764	mg/L	0.303
Se	78	-2.947685	18407.617	mg/L	0.718
Se	82	3.383770	706.263	mg/L	0.380

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		97.999
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.996
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 87.722
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.605
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.08
Sample Date/Time: Thursday, September 06, 2012 22:49:33
Autosampler Position: 51
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.08.49104

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5057.407	ug/L	
Be	9	-0.004012	6.333	ug/L	0.001
B	10	103.419462	9285.502	ug/L	4.872
B	11	111.247719	47062.022	ug/L	4.640
C	12		777147.395	ug/L	
Na	23	15172.374650	129623576.568	ug/L	191.097
Mg	24	7686.802930	44721320.192	ug/L	218.434
Mg	25	7932.171198	6379144.039	ug/L	233.077
Al	27	3.344854	39071.015	ug/L	0.017
Si	28		70396676.878	ug/L	
P	31	148.560694	95255.931	ug/L	2.645
S	32		102585496.226	ug/L	
Cl	35		11198488.201	ug/L	
K	39	13570.173639	196369121.760	ug/L	488.686
Ca	44	36256.398542	14863956.719	ug/L	2410.817
Sc	45		256562.203	ug/L	
Ti	47	2.179153	3444.687	ug/L	0.129
Ti	48	21.573218	248381.918	ug/L	3.975
V	51	0.706779	51418.539	ug/L	0.102
ClO	51		53482.412	ug/L	
Cr	52	0.528560	19224.880	ug/L	0.021
Cr	53	1.211001	15407.533	ug/L	0.165
Fe	54	39357.660718	42463648.890	ug/L	1720.005
Mn	55	1036.640196	20330306.275	ug/L	23.381
Fe	56	40749.600577	748661502.335	ug/L	1101.811
Fe	57	46116.674131	18333501.797	ug/L	1465.140
Co	59	4.294697	64554.402	ug/L	0.130
Ni	60	35.339444	111017.552	ug/L	0.740
Ni	62	34.245847	16104.747	ug/L	0.391
Cu	63	0.171950	2442.352	ug/L	0.002
Zn	64	13.750447	46846.166	ug/L	0.244
Cu	65	0.109959	528.354	ug/L	0.008
Zn	66	13.399717	27133.713	ug/L	0.457
Zn	68	13.952872	20119.440	ug/L	0.259
Ge	72		184670.223	ug/L	
As	75	220.291224	392708.156	ug/L	0.862
Se	74	394.202314	1847.537	mg/L	213.408
ArCl	77		1090.743	ug/L	
Br	79		83019.816	ug/L	

Br	81		111560.925	ug/L	
Y	89		474660.378	ug/L	
Mo	95	0.436775	2048.251	ug/L	0.017
Rh	103		424804.385	ug/L	
Ag	107	-0.022093	981.730	ug/L	0.012
Ag	109	-0.028794	866.383	ug/L	0.005
Cd	111	0.010376	123.002	ug/L	0.006
Cd	114	0.015147	299.675	ug/L	0.003
In	115		560026.201	ug/L	
Sb	121	0.047537	598.026	ug/L	0.001
Sb	123	0.048019	467.460	ug/L	0.003
Ba	137	14.946780	73550.399	ug/L	0.008
Ba	138	14.910157	471514.076	ug/L	0.035
Tb	159		616208.996	ug/L	
Ho	165		574703.860	ug/L	
Hg	200	0.003114	28.667	ug/L	0.001
Hg	202	0.000718	31.334	ug/L	0.003
Tl	205	-0.007233	728.037	ug/L	0.003
Pb	208	5.729422	190038.550	ug/L	0.053
Bi	209		427020.948	ug/L	
Se	77	1.322735	1174.743	mg/L	0.063
Se	78	-3.291340	18249.923	mg/L	0.284
Se	82	0.830765	171.880	mg/L	0.025

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		115.622
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 92.093
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 88.964
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 88.721
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.09
Sample Date/Time: Thursday, September 06, 2012 22:55:59
Autosampler Position: 52
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.09.49105

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5289.538	ug/L	
Be	9	-0.002178	6.333	ug/L	0.001
B	10	27.503970	2347.993	ug/L	0.530
B	11	29.412141	11794.765	ug/L	0.081
C	12		749444.079	ug/L	
Na	23	16170.392384	125666078.743	ug/L	111.567
Mg	24	3546.952044	18770697.195	ug/L	48.253
Mg	25	3698.197616	2705401.512	ug/L	35.326
Al	27	6.505861	60976.602	ug/L	0.053
Si	28		29029475.362	ug/L	
P	31	-3.876978	11041.138	ug/L	0.576
S	32		103571166.182	ug/L	
Cl	35		11434154.068	ug/L	
K	39	1842.390637	25075056.489	ug/L	75.354
Ca	44	12512.285785	4691602.938	ug/L	441.037
Sc	45		233350.549	ug/L	
Ti	47	0.740974	1720.180	ug/L	0.021
Ti	48	9.987389	102926.368	ug/L	0.336
V	51	0.701656	46691.768	ug/L	0.131
ClO	51		48166.116	ug/L	
Cr	52	0.334513	15288.242	ug/L	0.034
Cr	53	1.968483	15108.699	ug/L	0.387
Fe	54	5688.093745	5640366.700	ug/L	141.392
Mn	55	1723.361843	30722310.923	ug/L	70.965
Fe	56	5930.167880	102558091.334	ug/L	400.902
Fe	57	6573.853667	2387667.334	ug/L	228.380
Co	59	3.056094	41977.824	ug/L	0.137
Ni	60	2.218535	6416.995	ug/L	0.029
Ni	62	1.914676	876.718	ug/L	0.068
Cu	63	0.575681	4887.696	ug/L	0.029
Zn	64	2.212092	7609.184	ug/L	0.049
Cu	65	0.500784	1735.183	ug/L	0.027
Zn	66	1.925060	3973.241	ug/L	0.057
Zn	68	2.253461	3313.304	ug/L	0.016
Ge	72		187329.053	ug/L	
As	75	0.843310	1216.237	ug/L	0.008
Se	74	86.218430	12900.440	mg/L	105.503
ArCl	77		1100.744	ug/L	
Br	79		50230.272	ug/L	

Br	81		78828.325	ug/L	
Y	89		537817.739	ug/L	
Mo	95	0.053375	292.674	ug/L	0.001
Rh	103		451179.550	ug/L	
Ag	107	-0.033267	879.385	ug/L	0.006
Ag	109	-0.032488	858.049	ug/L	0.007
Cd	111	0.016668	148.336	ug/L	0.001
Cd	114	0.015921	318.675	ug/L	0.000
In	115		584879.427	ug/L	
Sb	121	0.031232	447.682	ug/L	0.002
Sb	123	0.031908	353.829	ug/L	0.004
Ba	137	3.863643	19908.642	ug/L	0.056
Ba	138	3.921495	129777.950	ug/L	0.001
Tb	159		640787.390	ug/L	
Ho	165		600198.752	ug/L	
Hg	200	-0.000062	23.667	ug/L	0.002
Hg	202	-0.000476	29.667	ug/L	0.002
Tl	205	0.005379	1076.741	ug/L	0.002
Pb	208	-0.001245	1143.706	ug/L	0.002
Bi	209		415176.513	ug/L	
Se	77	0.607740	1068.063	mg/L	0.139
Se	78	-1.755506	18954.675	mg/L	0.434
Se	82	0.571924	117.700	mg/L	0.089

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		105.161
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌ > Ge 93.419
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
| > In 92.912
| Sb
| Sb
| Ba
└ Ba
┌ Tb
| > Ho 92.657
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.10
Sample Date/Time: Thursday, September 06, 2012 23:02:25
Autosampler Position: 53
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.10.49106

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5725.803	ug/L	
Be	9	0.050350	23.334	ug/L	0.001
B	10	28.131779	2462.358	ug/L	0.105
B	11	31.357725	12864.224	ug/L	0.005
C	12		734047.707	ug/L	
Na	23	19527.724974	155777048.981	ug/L	188.404
Mg	24	8927.218887	48506026.046	ug/L	255.002
Mg	25	8936.516569	6711229.958	ug/L	40.135
Al	27	14.252144	126567.556	ug/L	0.233
Si	28		34097260.992	ug/L	
P	31	12.149693	19489.509	ug/L	2.313
S	32		105913628.791	ug/L	
Cl	35		12079360.459	ug/L	
K	39	2609.450323	36055841.938	ug/L	12.691
Ca	44	15101.276380	5804855.152	ug/L	444.622
Sc	45		239536.203	ug/L	
Ti	47	1.077892	2105.598	ug/L	0.050
Ti	48	10.689179	113287.989	ug/L	0.500
V	51	0.440495	44239.491	ug/L	0.011
ClO	51		46587.867	ug/L	
Cr	52	0.076452	12698.481	ug/L	0.002
Cr	53	1.399400	14666.970	ug/L	0.030
Fe	54	44310.258467	44636796.688	ug/L	128.626
Mn	55	309.178113	5676334.427	ug/L	1.113
Fe	56	46430.983287	795908305.788	ug/L	816.739
Fe	57	52793.162634	19594511.881	ug/L	1284.241
Co	59	0.123970	2440.018	ug/L	0.000
Ni	60	0.821357	2492.367	ug/L	0.019
Ni	62	0.540531	299.341	ug/L	0.011
Cu	63	2.994520	21421.759	ug/L	0.076
Zn	64	7.887509	25482.489	ug/L	0.167
Cu	65	2.899617	9688.590	ug/L	0.057
Zn	66	7.700913	14778.485	ug/L	0.182
Zn	68	7.930643	10864.268	ug/L	0.400
Ge	72		192782.729	ug/L	
As	75	0.455214	528.822	ug/L	0.001
Se	74	353.480885	3445.737	mg/L	84.618
ArCl	77		1107.412	ug/L	
Br	79		27004.718	ug/L	

Br	81		52802.112	ug/L	
Y	89		478060.667	ug/L	
Mo	95	0.299593	1480.469	ug/L	0.009
Rh	103		440580.772	ug/L	
Ag	107	-0.021850	1013.733	ug/L	0.004
Ag	109	-0.024372	946.726	ug/L	0.008
Cd	111	0.024215	169.670	ug/L	0.002
Cd	114	0.025560	383.679	ug/L	0.000
In	115		576369.850	ug/L	
Sb	121	0.046658	606.026	ug/L	0.002
Sb	123	0.045371	459.296	ug/L	0.003
Ba	137	5.326160	27020.707	ug/L	0.080
Ba	138	5.352695	174440.031	ug/L	0.054
Tb	159		623803.879	ug/L	
Ho	165		583748.484	ug/L	
Hg	200	0.001311	25.667	ug/L	0.003
Hg	202	-0.001208	27.000	ug/L	0.001
Tl	205	-0.004275	811.378	ug/L	0.003
Pb	208	0.171030	6882.080	ug/L	0.001
Bi	209		449008.818	ug/L	
Se	77	0.411117	1038.726	mg/L	0.114
Se	78	-2.606236	18564.298	mg/L	0.469
Se	82	0.498418	102.314	mg/L	0.072

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		107.949
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 96.139
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.560
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.118
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.11
Sample Date/Time: Thursday, September 06, 2012 23:08:50
Autosampler Position: 54
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.11.49107

All Mn except Co ND
high CCVs
no issue

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5337.569	ug/L	
Be	9	-0.006079	4.333	ug/L	0.006
B	10	4.127976	399.679	ug/L	0.130
B	11	4.168661	1893.216	ug/L	0.166
C	12		690458.396	ug/L	
Na	23	423.608263	2808555.079	ug/L	8.107
Mg	24	16.141092	73100.104	ug/L	0.733
Mg	25	16.035605	10049.891	ug/L	0.008
Al	27	15.203121	111342.090	ug/L	0.264
Si	28		2123351.619	ug/L	
P	31	-3.583961	9512.592	ug/L	0.311
S	32		98339533.337	ug/L	
Cl	35		11026824.887	ug/L	
K	39	14.977589	981489.817	ug/L	1.087
Ca	44	170.574268	86838.086	ug/L	5.822
Sc	45		198423.784	ug/L	
Ti	47	-0.535651	395.679	ug/L	0.033
Ti	48	0.227045	-438.891	ug/L	0.032
V	51	1.075368	44088.435	ug/L	0.126
ClO	51		45585.481	ug/L	
Cr	52	0.116933	10906.862	ug/L	0.018
Cr	53	3.331246	14524.074	ug/L	0.486
Fe	54	9.720937	65852.993	ug/L	1.303
Mn	55	-0.943048	2868.481	ug/L	0.010
Fe	56	23.306868	3806475.622	ug/L	5.551
Fe	57	0.317506	10827.528	ug/L	0.077
Co	59	0.010349	715.702	ug/L	0.002
Ni	60	0.040101	167.670	ug/L	0.015
Ni	62	0.062809	75.001	ug/L	0.026
Cu	63	-0.032759	738.704	ug/L	0.002
Zn	64	0.753761	2709.178	ug/L	0.009
Cu	65	0.047236	237.339	ug/L	0.006
Zn	66	0.810943	1669.170	ug/L	0.010
Zn	68	0.904419	1347.113	ug/L	0.057
Ge	72		183573.969	ug/L	
As	75	0.067649	-183.331	ug/L	0.012
Se	74	150.801571	10388.509	mg/L	7.604
ArCl	77		957.393	ug/L	
Br	79		6309.254	ug/L	

Br	81		32431.404	ug/L	
Y	89		484569.785	ug/L	
Mo	95	0.030435	181.337	ug/L	0.008
Rh	103		450238.581	ug/L	
Ag	107	-0.030694	895.053	ug/L	0.007
Ag	109	-0.028470	889.719	ug/L	0.003
Cd	111	0.003860	105.002	ug/L	0.007
Cd	114	0.007440	249.339	ug/L	0.009
In	115		571942.236	ug/L	
Sb	121	0.013325	246.673	ug/L	0.004
Sb	123	0.014074	200.617	ug/L	0.001
Ba	137	0.191629	1031.736	ug/L	0.011
Ba	138	0.185502	6323.818	ug/L	0.015
Tb	159		610777.883	ug/L	
Ho	165		579666.389	ug/L	
Hg	200	-0.000641	21.667	ug/L	0.002
Hg	202	-0.001646	25.667	ug/L	0.001
Tl	205	-0.002305	853.715	ug/L	0.000
Pb	208	-0.006308	936.028	ug/L	0.000
Bi	209		406413.914	ug/L	
Se	77	-0.634545	882.710	mg/L	0.152
Se	78	-1.738736	18962.370	mg/L	0.147
Se	82	0.181402	35.958	mg/L	0.070

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		89.421
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 91.547
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 90.857
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 89.488
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.12
Sample Date/Time: Thursday, September 06, 2012 23:15:16
Autosampler Position: 55
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12.49108

All Mn ND b.t Cr higher re issue

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5613.734	ug/L	
Be	9	-0.007843	4.000	ug/L	0.000
B	10	2.946241	329.009	ug/L	0.256
B	11	3.340518	1676.505	ug/L	0.044
C	12		678331.103	ug/L	
Na	23	435.565147	2978080.430	ug/L	1.741
Mg	24	20.407864	95215.682	ug/L	0.468
Mg	25	20.241972	13060.683	ug/L	0.588
Al	27	16.497852	123968.569	ug/L	0.145
Si	28		2230389.174	ug/L	
P	31	-4.278070	9509.258	ug/L	0.771
S	32		94352957.279	ug/L	
Cl	35		11130505.232	ug/L	
K	39	17.115153	1036753.787	ug/L	0.192
Ca	44	183.087744	93645.865	ug/L	2.003
Sc	45		204610.323	ug/L	
Ti	47	-0.507712	432.348	ug/L	0.007
Ti	48	0.235699	-369.596	ug/L	0.009
V	51	1.026510	44885.652	ug/L	0.002
ClO	51		46231.405	ug/L	
Cr	52	0.388187	13939.833	ug/L	0.023
Cr	53	3.008843	14572.153	ug/L	0.369
Fe	54	18.817915	75730.268	ug/L	1.249
Mn	55	-0.373815	11853.842	ug/L	0.004
Fe	56	34.981917	4096009.460	ug/L	1.167
Fe	57	13.180336	15240.956	ug/L	0.436
Co	59	0.017702	825.379	ug/L	0.000
Ni	60	0.346393	940.058	ug/L	0.003
Ni	62	0.412019	207.671	ug/L	0.009
Cu	63	0.082587	1430.127	ug/L	0.000
Zn	64	0.953841	3326.125	ug/L	0.009
Cu	65	0.159509	561.023	ug/L	0.002
Zn	66	0.949234	1940.226	ug/L	0.003
Zn	68	0.965036	1457.798	ug/L	0.001
Ge	72		184315.093	ug/L	
As	75	0.085465	-152.701	ug/L	0.015
Se	74	-88.158888	18824.584	mg/L	78.957
ArCl	77		949.059	ug/L	
Br	79		4949.732	ug/L	

Br	81		30609.096	ug/L	
Y	89		493395.244	ug/L	
Mo	95	0.083866	427.681	ug/L	0.004
Rh	103		458918.704	ug/L	
Ag	107	-0.038714	792.376	ug/L	0.005
Ag	109	-0.039445	755.372	ug/L	0.003
Cd	111	0.004597	108.002	ug/L	0.001
Cd	114	0.005634	238.339	ug/L	0.002
In	115		573094.755	ug/L	
Sb	121	0.014655	262.340	ug/L	0.000
Sb	123	0.016042	217.284	ug/L	0.002
Ba	137	0.201241	1083.409	ug/L	0.012
Ba	138	0.195575	6673.393	ug/L	0.003
Tb	159		630456.300	ug/L	
Ho	165		595807.434	ug/L	
Hg	200	0.002408	28.334	ug/L	0.000
Hg	202	0.001181	33.667	ug/L	0.001
Tl	205	-0.001756	890.053	ug/L	0.003
Pb	208	0.006709	1406.724	ug/L	0.001
Bi	209		436038.923	ug/L	
Se	77	0.026812	981.386	mg/L	0.177
Se	78	-1.099282	19255.797	mg/L	0.972
Se	82	0.021501	2.488	mg/L	0.020

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		92.209
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.916
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.040
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.979
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.12 MS
Sample Date/Time: Thursday, September 06, 2012 23:47:27
Autosampler Position: 56
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12 MS.49113

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5637.748	ug/L	
Be	9	993.889841	266082.244	ug/L	31.494
B	10	3.571957	364.678	ug/L	0.612
B	11	3.097149	1560.150	ug/L	0.211
C	12		1200932.578	ug/L	
Na	23	12948.226709	86277374.133	ug/L	269.442
Mg	24	12594.715222	57153271.424	ug/L	291.083
Mg	25	12612.158464	7912266.559	ug/L	160.535
Al	27	12720.195924	87764702.949	ug/L	635.483
Si	28		1907049.073	ug/L	
P	31	11689.370900	4982028.926	ug/L	241.462
S	32		98263712.571	ug/L	
Cl	35		13352524.773	ug/L	
K	39	11960.115194	135093821.408	ug/L	331.020
Ca	44	13229.254651	4252654.597	ug/L	25.120
Sc	45		200096.880	ug/L	
Ti	47	21.898279	19302.349	ug/L	1.162
Ti	48	10.291410	90977.474	ug/L	0.696
V	51	1186.114626	14076578.489	ug/L	20.642
ClO	51		14522310.705	ug/L	
Cr	52	1177.978087	11441230.428	ug/L	4.169
Cr	53	987.766604	1237737.764	ug/L	16.131
Fe	54	12120.731692	10242048.965	ug/L	31.401
Mn	55	1207.257700	18464580.013	ug/L	12.437
Fe	56	12039.530845	174998846.713	ug/L	239.884
Fe	57	13394.406547	4161512.018	ug/L	69.949
Co	59	1117.043913	12941152.360	ug/L	8.895
Ni	60	1094.936154	2680828.654	ug/L	5.648
Ni	62	1002.978916	366371.397	ug/L	21.847
Cu	63	1039.976693	5892914.180	ug/L	11.264
Zn	64	1105.374771	2876031.692	ug/L	10.269
Cu	65	1040.805326	2866161.398	ug/L	2.620
Zn	66	997.864430	1544639.322	ug/L	22.266
Zn	68	990.500347	1088406.808	ug/L	13.731
Ge	72		182780.754	ug/L	
As	75	1028.277566	1815042.939	ug/L	30.784
Se	74	-250.051249	24291.346	mg/L	11.824
ArCl	77		143162.592	ug/L	
Br	79		4743.956	ug/L	

Br	81		31325.528	ug/L	
Y	89		478757.085	ug/L	
Mo	95	1132.971912	5145031.692	ug/L	23.143
Rh	103		429165.835	ug/L	
Ag	107	906.805656	11183162.826	ug/L	43.344
Ag	109	921.904016	10968602.412	ug/L	22.738
Cd	111	1141.568464	3410261.435	ug/L	20.138
Cd	114	1113.875986	7723396.568	ug/L	25.068
In	115		553214.456	ug/L	
Sb	121	1140.036438	11698370.858	ug/L	29.474
Sb	123	1124.732934	8861615.599	ug/L	27.493
Ba	137	1108.515899	5381972.484	ug/L	30.865
Ba	138	1103.891076	34452265.501	ug/L	24.737
Tb	159		603671.143	ug/L	
Ho	165		573248.053	ug/L	
Hg	200	1.145313	2186.952	ug/L	0.012
Hg	202	1.067472	2660.749	ug/L	0.015
Tl	205	1110.706562	26630979.820	ug/L	15.089
Pb	208	1091.841996	35902042.665	ug/L	24.144
Bi	209		415364.566	ug/L	
Se	77	936.877291	140762.778	mg/L	7.944
Se	78	998.623736	478000.972	mg/L	10.637
Se	82	944.069640	197606.301	mg/L	9.085

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		90.175
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.151
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 87.882
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.497
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.12 MSD
Sample Date/Time: Thursday, September 06, 2012 23:53:58
Autosampler Position: 57
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12 MSD.49114

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5876.565	ug/L	
Be	9	953.377540	258299.766	ug/L	26.543
B	10	2.595048	301.008	ug/L	0.322
B	11	2.502573	1383.452	ug/L	0.059
C	12		1202889.273	ug/L	
Na	23	13155.115723	88708735.307	ug/L	183.606
Mg	24	12634.518364	58027475.281	ug/L	91.531
Mg	25	12414.943262	7881490.872	ug/L	33.333
Al	27	12594.285052	87948530.873	ug/L	190.866
Si	28		1894235.046	ug/L	
P	31	11333.473763	4888713.669	ug/L	155.468
S	32		99500788.225	ug/L	
Cl	35		13142068.204	ug/L	
K	39	11763.051422	134492800.658	ug/L	129.256
Ca	44	12761.624707	4152695.447	ug/L	27.890
Sc	45		202495.798	ug/L	
Ti	47	20.702128	18516.356	ug/L	0.241
Ti	48	10.487508	93888.731	ug/L	0.152
V	51	1152.445904	13842313.863	ug/L	9.814
ClO	51		14473758.133	ug/L	
Cr	52	1160.543940	11406428.174	ug/L	25.632
Cr	53	956.515412	1213254.446	ug/L	22.022
Fe	54	11409.355230	9759695.670	ug/L	121.958
Mn	55	1173.008278	18155713.912	ug/L	23.138
Fe	56	11654.765499	171573883.909	ug/L	224.652
Fe	57	13160.623453	4137828.979	ug/L	165.298
Co	59	1102.956928	12931418.799	ug/L	2.288
Ni	60	1068.624074	2647684.340	ug/L	15.788
Ni	62	977.893370	361493.611	ug/L	19.726
Cu	63	1021.733115	5858924.209	ug/L	12.922
Zn	64	1086.619051	2861113.368	ug/L	12.830
Cu	65	1012.240686	2820884.447	ug/L	6.306
Zn	66	963.109059	1508827.147	ug/L	3.531
Zn	68	958.574568	1065938.189	ug/L	19.967
Ge	72		184650.082	ug/L	
As	75	1003.032974	1788470.274	ug/L	31.114
Se	74	-272.602917	25319.626	mg/L	49.000
ArCl	77		141434.792	ug/L	
Br	79		4301.729	ug/L	

Br	81		28709.888	ug/L	
Y	89		482701.570	ug/L	
Mo	95	1103.262470	5061854.306	ug/L	7.250
Rh	103		435391.839	ug/L	
Ag	107	896.362651	11301621.579	ug/L	22.207
Ag	109	875.791968	10645983.686	ug/L	75.318
Cd	111	1101.811132	3364589.002	ug/L	5.737
Cd	114	1085.339581	7693072.160	ug/L	4.620
In	115		565422.997	ug/L	
Sb	121	1096.418085	11500882.438	ug/L	14.680
Sb	123	1091.614586	8791542.360	ug/L	18.136
Ba	137	1070.746493	5314228.953	ug/L	15.289
Ba	138	1071.168827	34173918.857	ug/L	10.339
Tb	159		615659.349	ug/L	
Ho	165		583408.835	ug/L	
Hg	200	1.060065	2061.921	ug/L	0.020
Hg	202	1.080985	2742.108	ug/L	0.015
Tl	205	1100.678649	26861991.359	ug/L	11.155
Pb	208	1073.707144	35938556.771	ug/L	5.720
Bi	209		437664.323	ug/L	
Se	77	923.302466	138737.366	mg/L	11.048
Se	78	968.432735	464147.158	mg/L	12.392
Se	82	926.112433	193847.581	mg/L	0.255

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		91.256
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 92.083
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.821
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 90.065
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.02
Sample Date/Time: Friday, September 07, 2012 07:35:10
Autosampler Position: 108
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02.49185

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9500.965	ug/L	
Be	9	0.029415	15.667	ug/L	0.011
B	10	226.875317	17754.167	ug/L	5.791
B	11	252.301386	93075.972	ug/L	1.393
C	12		8903733.383	ug/L	
Na	23	83876.329983	630013392.377	ug/L	1948.234
Mg	24	20095.094093	102808480.073	ug/L	235.671
Mg	25	20071.706402	14194430.746	ug/L	360.838
Al	27	1.736525	21838.418	ug/L	0.170
Si	28		32346141.277	ug/L	
P	31	386.001235	197590.623	ug/L	8.190
S	32		102872817.023	ug/L	
Cl	35		11775585.260	ug/L	
K	39	19291.630993	245113551.149	ug/L	107.294
Ca	44	33460.231248	12068775.035	ug/L	204.085
Sc	45		225584.623	ug/L	
Ti	47	1.917345	2780.453	ug/L	0.097
Ti	48	21.982908	222216.365	ug/L	3.753
V	51	0.459925	41923.874	ug/L	0.022
ClO	51		43581.989	ug/L	
Cr	52	-0.029728	10795.500	ug/L	0.044
Cr	53	1.290038	13658.723	ug/L	0.127
Fe	54	13085.934766	12460023.812	ug/L	316.505
Mn	55	3631.684348	62583528.299	ug/L	1.569
Fe	56	13641.333173	223018128.190	ug/L	173.997
Fe	57	15212.934055	5326449.399	ug/L	306.515
Co	59	3.898755	51598.198	ug/L	0.017
Ni	60	10.534592	29156.974	ug/L	0.138
Ni	62	9.628083	4023.597	ug/L	0.292
Cu	63	0.871345	6614.805	ug/L	0.002
Zn	64	1.225588	4464.094	ug/L	0.015
Cu	65	0.155362	605.693	ug/L	0.002
Zn	66	0.974354	2182.951	ug/L	0.003
Zn	68	5.031089	6642.826	ug/L	0.011
Ge	72		171441.476	ug/L	
As	75	17.334627	28427.345	ug/L	0.087
Se	74	124.414677	10562.580	mg/L	88.566
ArCl	77		996.065	ug/L	
Br	79		364268.743	ug/L	

Br	81		414600.132	ug/L	
Y	89		460792.833	ug/L	
Mo	95	30.947157	131876.975	ug/L	0.293
Rh	103		397928.234	ug/L	
Ag	107	-0.036661	754.706	ug/L	0.003
Ag	109	-0.037582	717.702	ug/L	0.005
Cd	111	0.096640	362.344	ug/L	0.014
Cd	114	0.081206	720.369	ug/L	0.006
In	115		528270.767	ug/L	
Sb	121	0.162275	1688.507	ug/L	0.003
Sb	123	0.161050	1291.409	ug/L	0.003
Ba	137	159.683626	740559.220	ug/L	1.136
Ba	138	170.902194	5094568.817	ug/L	1.117
Tb	159		597709.033	ug/L	
Ho	165		555996.744	ug/L	
Hg	200	0.070568	151.336	ug/L	0.008
Hg	202	0.044777	135.669	ug/L	0.001
Tl	205	0.044062	1896.884	ug/L	0.004
Pb	208	0.003053	1196.376	ug/L	0.003
Bi	209		394903.872	ug/L	
Se	77	-0.098310	962.718	mg/L	0.253
Se	78	-4.319431	17778.160	mg/L	0.265
Se	82	4.058816	847.560	mg/L	0.060

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		101.661
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	85.496
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	83.920
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	85.833
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113593.02 MS
Sample Date/Time: Friday, September 07, 2012 07:41:43
Autosampler Position: 109
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MS.49186

Mn verus Spikes

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9635.771	ug/L	
Be	9	746.225041	235443.915	ug/L	18.366
B	10	214.083889	17528.066	ug/L	0.881
B	11	232.124668	89603.268	ug/L	1.634
C	12		9405437.600	ug/L	
Na	23	88592.736366	696042495.227	ug/L	1585.307
Mg	24	29251.609513	156507066.377	ug/L	229.248
Mg	25	29544.857822	21855502.672	ug/L	647.129
Al	27	10987.635996	89362880.407	ug/L	174.754
Si	28		32210973.380	ug/L	
P	31	10378.434068	5216651.917	ug/L	69.899
S	32		115283479.226	ug/L	
Cl	35		16047266.035	ug/L	
K	39	27640.259006	366890234.724	ug/L	451.250
Ca	44	42194.766036	15904403.795	ug/L	105.519
Sc	45		235878.235	ug/L	
Ti	47	25.700414	26539.311	ug/L	0.267
Ti	48	26.861841	284678.405	ug/L	0.412
V	51	985.494888	13793658.850	ug/L	2.861
ClO	51		14313253.592	ug/L	
Cr	52	962.539986	11021899.926	ug/L	5.154
Cr	53	785.746428	1163025.788	ug/L	10.681
Fe	54	21683.403789	21544524.789	ug/L	31.501
Mn	55	4304.823798	77558206.920	ug/L	24.893
Fe	56	22386.747495	380007999.292	ug/L	209.101
Fe	57	24563.430101	8985851.212	ug/L	63.518
Co	59	903.969822	12342929.363	ug/L	14.375
Ni	60	868.068863	2504896.222	ug/L	13.840
Ni	62	794.350943	341997.610	ug/L	14.284
Cu	63	805.277033	5379494.895	ug/L	0.695
Zn	64	861.718946	2643281.190	ug/L	0.145
Cu	65	805.802218	2615938.141	ug/L	1.450
Zn	66	762.014056	1390668.630	ug/L	1.626
Zn	68	762.880622	988278.820	ug/L	3.063
Ge	72		177875.574	ug/L	
As	75	1040.855689	1788509.472	ug/L	9.582
Se	74	-187.935558	21530.495	mg/L	25.636
ArCl	77		141430.098	ug/L	
Br	79		341636.319	ug/L	

Br	81		389671.654	ug/L	
Y	89		471983.054	ug/L	
Mo	95	1137.544932	5028512.651	ug/L	14.003
Rh	103		405385.529	ug/L	
Ag	107	803.545019	9545102.724	ug/L	3.497
Ag	109	788.627149	9034902.668	ug/L	8.665
Cd	111	1088.253508	3130862.483	ug/L	7.319
Cd	114	1073.049354	7164482.183	ug/L	7.154
In	115		532633.429	ug/L	
Sb	121	1103.190887	10900446.830	ug/L	11.404
Sb	123	1088.139302	8256059.895	ug/L	2.745
Ba	137	1224.879635	5727799.492	ug/L	9.183
Ba	138	1219.598613	36659514.253	ug/L	10.528
Tb	159		584492.036	ug/L	
Ho	165		554257.613	ug/L	
Hg	200	1.107267	2045.918	ug/L	0.035
Hg	202	1.076671	2595.730	ug/L	0.032
Tl	205	1087.190379	25207639.013	ug/L	3.404
Pb	208	1054.237372	33525920.557	ug/L	5.470
Bi	209		421725.222	ug/L	
Se	77	944.838723	141950.651	mg/L	23.156
Se	78	975.165124	467236.465	mg/L	16.308
Se	82	937.439413	196218.492	mg/L	32.102

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		106.300
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 88.705
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 84.613
Sb
Sb
Ba
Ba
Tb
> Ho 85.565
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.02 MSD
Sample Date/Time: Friday, September 07, 2012 07:48:15
Autosampler Position: 110
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MSD.49187

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9722.533	ug/L	
Be	9	771.518634	241981.018	ug/L	19.968
B	10	221.815530	18042.066	ug/L	2.201
B	11	244.396451	93711.460	ug/L	1.500
C	12		7645510.474	ug/L	
Na	23	91947.581977	717702524.611	ug/L	1307.436
Mg	24	30500.963507	162149016.569	ug/L	657.732
Mg	25	30834.792101	22660155.151	ug/L	406.198
Al	27	11302.629227	91377484.386	ug/L	37.517
Si	28		32513347.650	ug/L	
P	31	10724.205047	5355786.642	ug/L	182.827
S	32		116021734.052	ug/L	
Cl	35		16557075.119	ug/L	
K	39	28399.585455	374547074.406	ug/L	335.398
Ca	44	43597.400204	16327719.896	ug/L	1168.220
Sc	45		234422.798	ug/L	
Ti	47	26.532353	27188.547	ug/L	0.954
Ti	48	28.911046	305010.124	ug/L	4.159
V	51	1024.311775	14247077.975	ug/L	8.700
ClO	51		14750776.628	ug/L	
Cr	52	1012.631945	11523362.692	ug/L	16.646
Cr	53	809.740873	1190873.805	ug/L	19.414
Fe	54	22034.356668	21756306.082	ug/L	256.027
Mn	55	4428.779524	79297017.087	ug/L	97.958
Fe	56	22251.454440	375442933.382	ug/L	181.313
Fe	57	25118.652667	9130853.966	ug/L	447.188
Co	59	928.398455	12600455.397	ug/L	11.967
Ni	60	902.289243	2588081.220	ug/L	7.855
Ni	62	816.531921	349451.516	ug/L	9.099
Cu	63	828.918203	5502836.584	ug/L	10.062
Zn	64	889.323741	2710990.237	ug/L	7.772
Cu	65	823.422846	2656430.413	ug/L	9.293
Zn	66	776.553481	1408394.286	ug/L	11.491
Zn	68	781.041961	1005499.812	ug/L	18.429
Ge	72		176286.145	ug/L	
As	75	1058.026893	1801629.602	ug/L	10.395
Se	74	-216.550592	22306.455	mg/L	10.816
ArCl	77		144528.678	ug/L	
Br	79		346108.405	ug/L	

Br	81		394914.514	ug/L	
Y	89		468328.692	ug/L	
Mo	95	1181.008219	5173439.414	ug/L	7.205
Rh	103		403645.707	ug/L	
Ag	107	842.861070	9986469.473	ug/L	12.509
Ag	109	840.306271	9602834.218	ug/L	16.841
Cd	111	1117.360910	3205980.183	ug/L	12.779
Cd	114	1099.609610	7323356.983	ug/L	13.561
In	115		531283.095	ug/L	
Sb	121	1132.054729	11158017.510	ug/L	14.631
Sb	123	1120.621430	8480750.000	ug/L	12.084
Ba	137	1260.526247	5878557.878	ug/L	17.051
Ba	138	1261.783351	37826523.402	ug/L	3.967
Tb	159		585667.040	ug/L	
Ho	165		555662.424	ug/L	
Hg	200	1.143934	2116.934	ug/L	0.028
Hg	202	1.113479	2689.091	ug/L	0.011
Tl	205	1099.761741	25554569.606	ug/L	30.591
Pb	208	1091.291518	34777792.677	ug/L	33.374
Bi	209		395824.337	ug/L	
Se	77	948.095575	142436.585	mg/L	11.232
Se	78	984.564945	471549.783	mg/L	19.088
Se	82	949.462037	198735.013	mg/L	4.602

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		105.644
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	87.912
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	84.398
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	85.782
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113593.03
Sample Date/Time: Friday, September 07, 2012 08:14:26
Autosampler Position: 114
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.03.49191

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		10097.608	ug/L	
Be	9	0.041775	21.334	ug/L	0.026
B	10	223.417941	19270.261	ug/L	1.166
B	11	248.828970	101170.902	ug/L	1.751
C	12		7007129.036	ug/L	
Na	23	S	S	ug/L	S
Mg	24	19269.167692	108647038.362	ug/L	268.835
Mg	25	19479.002857	15181999.558	ug/L	315.785
Al	27	1.998786	26317.334	ug/L	0.048
Si	28		34004593.116	ug/L	
P	31	371.167191	209934.609	ug/L	7.974
S	32		109513119.887	ug/L	
Cl	35		13096893.647	ug/L	
K	39	18349.934412	257002235.558	ug/L	408.524
Ca	44	33115.712487	13164464.333	ug/L	742.289
Sc	45		248591.789	ug/L	
Ti	47	1.907434	3054.210	ug/L	0.059
Ti	48	20.960396	233466.557	ug/L	0.320
V	51	0.299719	43842.916	ug/L	0.024
ClO	51		46073.949	ug/L	
Cr	52	-0.042684	11744.369	ug/L	0.053
Cr	53	0.705509	14150.815	ug/L	0.126
Fe	54	12733.933248	13365128.336	ug/L	173.789
Mn	55	3471.520231	65931590.229	ug/L	84.271
Fe	56	12920.106233	233023114.639	ug/L	208.018
Fe	57	14425.124771	5567152.481	ug/L	260.840
Co	59	4.673921	68021.257	ug/L	0.060
Ni	60	10.335945	31528.565	ug/L	0.067
Ni	62	9.437904	4348.083	ug/L	0.011
Cu	63	0.893282	7443.787	ug/L	0.004
Zn	64	2.234323	8179.473	ug/L	0.029
Cu	65	0.192962	796.043	ug/L	0.002
Zn	66	1.999343	4376.430	ug/L	0.014
Zn	68	5.821984	8399.296	ug/L	0.095
Ge	72		181853.483	ug/L	
As	75	16.711362	29048.815	ug/L	0.443
Se	74	132.719674	10846.782	mg/L	143.165
ArCl	77		1121.414	ug/L	
Br	79		375079.876	ug/L	

Br	81		426925.445	ug/L	
Y	89		489685.470	ug/L	
Mo	95	30.622973	138412.312	ug/L	0.184
Rh	103		419959.441	ug/L	
Ag	107	3.008518	37771.017	ug/L	0.115
Ag	109	3.019389	36553.387	ug/L	0.149
Cd	111	0.102469	390.679	ug/L	0.003
Cd	114	0.075339	703.034	ug/L	0.001
In	115		545026.985	ug/L	
Sb	121	0.283320	2965.180	ug/L	0.007
Sb	123	0.281234	2265.282	ug/L	0.003
Ba	137	158.418160	757833.688	ug/L	2.787
Ba	138	170.975063	5258284.753	ug/L	0.654
Tb	159		618670.067	ug/L	
Ho	165		584653.354	ug/L	
Hg	200	0.065635	149.669	ug/L	0.000
Hg	202	0.045501	144.336	ug/L	0.007
Tl	205	0.039299	1877.879	ug/L	0.003
Pb	208	0.011205	1530.732	ug/L	0.003
Bi	209		429422.092	ug/L	
Se	77	0.875862	1108.068	mg/L	0.088
Se	78	-4.914656	17505.028	mg/L	0.474
Se	82	4.526360	945.425	mg/L	0.111

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		112.030
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	90.689
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	86.581
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	90.257
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113593.05
Sample Date/Time: Friday, September 07, 2012 08:20:58
Autosampler Position: 115
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.05.49192

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5552.363	ug/L	
Be	9	0.006800	9.000	ug/L	0.002
B	10	25.727944	2173.615	ug/L	0.566
B	11	27.874698	11048.821	ug/L	0.095
C	12		2948441.717	ug/L	
Na	23	12937.822939	99074699.882	ug/L	348.452
Mg	24	6163.495829	32146795.175	ug/L	78.447
Mg	25	6210.923672	4477666.256	ug/L	55.061
Al	27	1.572595	20966.244	ug/L	0.001
Si	28		23735221.093	ug/L	
P	31	2.050232	13778.482	ug/L	0.966
S	32		107729336.606	ug/L	
Cl	35		10583356.060	ug/L	
K	39	1865.851585	25019032.402	ug/L	33.974
Ca	44	16128.891673	5949967.189	ug/L	274.010
Sc	45		229957.456	ug/L	
Ti	47	0.242459	1212.426	ug/L	0.029
Ti	48	11.870808	121063.132	ug/L	0.351
V	51	0.239317	39732.037	ug/L	0.045
ClO	51		41544.461	ug/L	
Cr	52	0.366371	15423.515	ug/L	0.017
Cr	53	1.049965	13580.939	ug/L	0.119
Fe	54	1019.111580	1050945.956	ug/L	20.215
Mn	55	2400.707258	42177852.275	ug/L	39.549
Fe	56	1100.504124	22046234.858	ug/L	18.884
Fe	57	1091.628100	401170.535	ug/L	20.227
Co	59	1.091014	15217.545	ug/L	0.002
Ni	60	4.027603	11414.609	ug/L	0.020
Ni	62	3.690313	1609.492	ug/L	0.036
Cu	63	2.551316	17682.024	ug/L	0.024
Zn	64	23.969918	72541.133	ug/L	0.329
Cu	65	2.603016	8363.262	ug/L	0.017
Zn	66	23.876766	42958.025	ug/L	0.348
Zn	68	23.661145	30290.684	ug/L	0.283
Ge	72		178872.006	ug/L	
As	75	0.122594	-83.524	ug/L	0.071
Se	74	-39.942097	16599.840	mg/L	97.807
ArCl	77		875.718	ug/L	
Br	79		26661.670	ug/L	

Br	81		54766.691	ug/L	
Y	89		481456.255	ug/L	
Mo	95	0.759016	3415.676	ug/L	0.009
Rh	103		429423.546	ug/L	
Ag	107	3.250595	41539.442	ug/L	0.059
Ag	109	3.188153	39318.922	ug/L	0.085
Cd	111	0.105822	408.680	ug/L	0.006
Cd	114	0.119252	1022.734	ug/L	0.008
In	115		555847.995	ug/L	
Sb	121	0.087120	1001.732	ug/L	0.001
Sb	123	0.080492	721.109	ug/L	0.001
Ba	137	5.090513	24907.657	ug/L	0.026
Ba	138	5.117451	160843.712	ug/L	0.040
Tb	159		625081.376	ug/L	
Ho	165		591519.201	ug/L	
Hg	200	0.004390	32.000	ug/L	0.001
Hg	202	0.001268	33.667	ug/L	0.003
Tl	205	0.011166	1204.425	ug/L	0.001
Pb	208	0.037009	2425.483	ug/L	0.005
Bi	209		428055.863	ug/L	
Se	77	-0.992032	829.371	mg/L	0.101
Se	78	-4.643803	17629.315	mg/L	1.170
Se	82	0.387188	79.032	mg/L	0.027

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		103.632
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 89.202
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 88.300
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 91.317
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.08
Sample Date/Time: Friday, September 07, 2012 08:53:11
Autosampler Position: 116
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.08.49197

Li BLO

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5993.976	ug/L	
Be	9	-0.009034	5.000	ug/L	0.006
B	10	102.426439	9995.260	ug/L	3.283
B	11	107.142907	49281.130	ug/L	4.523
C	12		8362063.064	ug/L	
Na	23	14482.265760	134427475.662	ug/L	504.662
Mg	24	7435.953522	47010400.170	ug/L	34.981
Mg	25	7471.073672	6528818.145	ug/L	114.725
Al	27	3.736670	46211.891	ug/L	0.243
Si	28		72679195.448	ug/L	
P	31	136.723389	96479.342	ug/L	7.903
S	32		111991261.761	ug/L	
Cl	35		10327535.391	ug/L	
K	39	13012.538404	204655798.253	ug/L	526.876
Ca	44	36436.865414	16234798.368	ug/L	1137.890
Sc	45		278747.691	ug/L	
Ti	47	2.014808	3550.395	ug/L	0.050
Ti	48	22.594962	282446.499	ug/L	1.617
V	51	0.082758	45579.768	ug/L	0.031
ClO	51		47154.114	ug/L	
Cr	52	0.313523	17981.392	ug/L	0.020
Cr	53	-0.826704	13214.396	ug/L	0.044
Fe	54	39962.799808	46854772.473	ug/L	461.528
Mn	55	1049.687196	22368563.987	ug/L	10.211
Fe	56	40542.977420	809440631.647	ug/L	234.916
Fe	57	44631.616279	19281270.184	ug/L	317.150
Co	59	4.271780	69777.801	ug/L	0.043
Ni	60	8.117631	27785.344	ug/L	0.131
Ni	62	7.316166	3795.830	ug/L	0.114
Cu	63	0.100914	2092.928	ug/L	0.002
Zn	64	1.372283	6047.269	ug/L	0.035
Cu	65	0.098011	528.354	ug/L	0.006
Zn	66	1.033341	2824.467	ug/L	0.019
Zn	68	1.855489	3348.650	ug/L	0.012
Ge	72		192404.129	ug/L	
As	75	225.906704	419575.478	ug/L	3.669
Se	74	343.005442	3843.313	mg/L	41.940
ArCl	77		954.060	ug/L	
Br	79		40686.642	ug/L	

Br	81		70294.214	ug/L	
Y	89		500758.445	ug/L	
Mo	95	0.431779	2109.933	ug/L	0.010
Rh	103		431914.238	ug/L	
Ag	107	1.122735	15321.093	ug/L	0.114
Ag	109	1.087467	14352.494	ug/L	0.102
Cd	111	0.008066	116.335	ug/L	0.004
Cd	114	0.012806	284.007	ug/L	0.004
In	115		561910.771	ug/L	
Sb	121	0.111857	1270.435	ug/L	0.002
Sb	123	0.109542	961.382	ug/L	0.002
Ba	137	14.174083	69977.997	ug/L	0.249
Ba	138	14.076907	446615.875	ug/L	0.296
Tb	159		627160.003	ug/L	
Ho	165		587353.118	ug/L	
Hg	200	0.006391	35.667	ug/L	0.001
Hg	202	0.002298	36.000	ug/L	0.001
Tl	205	-0.003933	823.712	ug/L	0.004
Pb	208	0.005897	1357.387	ug/L	0.005
Bi	209		459267.784	ug/L	
Se	77	-0.187678	949.384	mg/L	1.138
Se	78	-3.918531	17962.122	mg/L	0.631
Se	82	0.576901	118.742	mg/L	0.066

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		125.620
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 95.950
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.264
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 90.674
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.09
Sample Date/Time: Friday, September 07, 2012 08:59:44
Autosampler Position: 117
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.09.49198

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6126.064	ug/L	
Be	9	-0.006671	5.333	ug/L	0.000
B	10	26.394117	2445.353	ug/L	0.010
B	11	27.449186	11959.314	ug/L	0.696
C	12		3477344.407	ug/L	
Na	23	15257.753008	128352340.685	ug/L	139.473
Mg	24	3425.815685	19622793.612	ug/L	76.526
Mg	25	3525.772704	2792010.686	ug/L	13.156
Al	27	1.677040	23937.197	ug/L	0.033
Si	28		30418364.135	ug/L	
P	31	-3.175260	12306.458	ug/L	5.828
S	32		116145441.617	ug/L	
Cl	35		11511361.492	ug/L	
K	39	1779.925814	26261274.881	ug/L	28.640
Ca	44	12871.326780	5222538.609	ug/L	534.143
Sc	45		252588.014	ug/L	
Ti	47	0.366981	1463.799	ug/L	0.059
Ti	48	8.986018	100024.879	ug/L	1.430
V	51	0.027494	40471.959	ug/L	0.046
ClO	51		42130.822	ug/L	
Cr	52	0.075040	13371.201	ug/L	0.019
Cr	53	0.077079	13391.657	ug/L	0.024
Fe	54	4295.842386	4629828.929	ug/L	8.296
Mn	55	1622.191425	31313698.160	ug/L	4.312
Fe	56	4345.773747	82562078.880	ug/L	77.860
Fe	57	4224.753257	1665775.390	ug/L	156.200
Co	59	3.235749	48076.605	ug/L	0.028
Ni	60	2.036342	6383.304	ug/L	0.010
Ni	62	1.713358	856.049	ug/L	0.098
Cu	63	0.465758	4505.828	ug/L	0.001
Zn	64	1.458146	5761.283	ug/L	0.026
Cu	65	0.452218	1709.845	ug/L	0.008
Zn	66	1.215739	2915.497	ug/L	0.021
Zn	68	1.438280	2455.023	ug/L	0.081
Ge	72		188908.038	ug/L	
As	75	0.686219	938.912	ug/L	0.078
Se	74	71.429383	13560.770	mg/L	90.842
ArCl	77		995.731	ug/L	
Br	79		22381.409	ug/L	

Br	81		51893.207	ug/L	
Y	89		531427.690	ug/L	
Mo	95	0.069470	370.678	ug/L	0.001
Rh	103		440725.697	ug/L	
Ag	107	2.412267	31749.668	ug/L	0.084
Ag	109	2.371334	30128.476	ug/L	0.053
Cd	111	0.011528	128.002	ug/L	0.001
Cd	114	0.010445	269.673	ug/L	0.003
In	115		566735.851	ug/L	
Sb	121	0.125224	1421.459	ug/L	0.006
Sb	123	0.118963	1045.392	ug/L	0.005
Ba	137	3.768438	18814.303	ug/L	0.086
Ba	138	3.757540	120477.611	ug/L	0.099
Tb	159		632040.680	ug/L	
Ho	165		599133.773	ug/L	
Hg	200	-0.000742	22.334	ug/L	0.004
Hg	202	-0.001473	27.000	ug/L	0.002
Tl	205	0.006756	1109.079	ug/L	0.002
Pb	208	0.006375	1402.723	ug/L	0.004
Bi	209		446288.928	ug/L	
Se	77	0.250249	1014.724	mg/L	0.948
Se	78	-3.243341	18271.948	mg/L	0.053
Se	82	0.454125	93.043	mg/L	0.131

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		113.831
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 94.207
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 90.030
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.493
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.10
Sample Date/Time: Friday, September 07, 2012 09:06:17
Autosampler Position: 118
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.10.49199

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6276.837	ug/L	
Be	9	-0.001299	6.667	ug/L	0.003
B	10	30.169996	2586.727	ug/L	0.075
B	11	32.112256	12939.332	ug/L	0.233
C	12		2796012.862	ug/L	
Na	23	19564.599184	153469870.233	ug/L	164.769
Mg	24	8890.186715	47494898.693	ug/L	162.839
Mg	25	9070.193141	6698336.683	ug/L	29.052
Al	27	1.213248	18557.444	ug/L	0.037
Si	28		21474695.541	ug/L	
P	31	-6.833563	9666.133	ug/L	2.154
S	32		109772506.717	ug/L	
Cl	35		11198172.295	ug/L	
K	39	2669.359906	36248485.040	ug/L	68.758
Ca	44	16001.419834	6047248.305	ug/L	129.893
Sc	45		235556.759	ug/L	
Ti	47	0.024189	1025.401	ug/L	0.053
Ti	48	11.383360	118786.154	ug/L	1.601
V	51	0.158991	39581.041	ug/L	0.003
ClO	51		41633.198	ug/L	
Cr	52	-0.060518	10922.411	ug/L	0.019
Cr	53	0.485619	13086.543	ug/L	0.012
Fe	54	810.129187	869877.543	ug/L	4.610
Mn	55	306.418664	5532427.997	ug/L	3.049
Fe	56	881.757058	18915023.111	ug/L	21.848
Fe	57	910.459638	344871.187	ug/L	14.529
Co	59	0.117071	2305.315	ug/L	0.006
Ni	60	0.891721	2654.081	ug/L	0.016
Ni	62	0.551326	299.008	ug/L	0.041
Cu	63	0.640777	5369.306	ug/L	0.015
Zn	64	7.795423	24779.174	ug/L	0.124
Cu	65	0.586978	2031.581	ug/L	0.010
Zn	66	7.562805	14283.021	ug/L	0.046
Zn	68	7.600731	10259.555	ug/L	0.029
Ge	72		186562.905	ug/L	
As	75	0.077110	-169.903	ug/L	0.034
Se	74	111.463348	11945.273	mg/L	42.427
ArCl	77		995.398	ug/L	
Br	79		17968.936	ug/L	

Br	81		47356.832	ug/L	
Y	89		492646.583	ug/L	
Mo	95	0.154813	761.706	ug/L	0.002
Rh	103		435756.612	ug/L	
Ag	107	1.311989	17809.607	ug/L	0.016
Ag	109	1.266406	16624.035	ug/L	0.063
Cd	111	0.007917	116.669	ug/L	0.002
Cd	114	0.006136	238.672	ug/L	0.003
In	115		565314.929	ug/L	
Sb	121	0.040992	535.021	ug/L	0.001
Sb	123	0.041818	421.918	ug/L	0.002
Ba	137	3.109267	15500.025	ug/L	0.043
Ba	138	3.100321	99241.914	ug/L	0.004
Tb	159		623245.300	ug/L	
Ho	165		596335.296	ug/L	
Hg	200	-0.003208	17.334	ug/L	0.001
Hg	202	0.001684	35.000	ug/L	0.000
Tl	205	-0.003632	844.381	ug/L	0.004
Pb	208	0.018130	1798.423	ug/L	0.004
Bi	209		444744.985	ug/L	
Se	77	-0.196620	948.049	mg/L	0.164
Se	78	-3.526021	18142.234	mg/L	0.221
Se	82	0.369571	75.345	mg/L	0.129

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.155
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 93.037
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 89.804
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 92.061
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.11
Sample Date/Time: Friday, September 07, 2012 09:14:57
Autosampler Position: 119
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.11.49200

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6048.682	ug/L	
Be	9	-0.011109	3.333	ug/L	0.003
B	10	1.670394	257.006	ug/L	0.240
B	11	1.808092	1254.766	ug/L	0.184
C	12		889854.064	ug/L	
Na	23	390.666857	2873454.694	ug/L	7.987
Mg	24	14.889468	74854.387	ug/L	0.034
Mg	25	14.721019	10240.125	ug/L	0.367
Al	27	14.594210	118860.468	ug/L	0.299
Si	28		1947114.489	ug/L	
P	31	-8.914303	8051.055	ug/L	2.077
S	32		S	ug/L	
Cl	35		8449790.196	ug/L	
K	39	3.142644	942268.309	ug/L	2.279
Ca	44	128.557089	81565.797	ug/L	7.619
Sc	45		220051.654	ug/L	
Ti	47	-0.667384	317.009	ug/L	0.001
Ti	48	0.333361	580.538	ug/L	0.029
V	51	0.037126	35391.465	ug/L	0.031
ClO	51		36828.160	ug/L	
Cr	52	0.064146	11532.723	ug/L	0.019
Cr	53	-0.414502	10995.423	ug/L	0.024
Fe	54	-3.201086	61079.058	ug/L	3.592
Mn	55	-0.920912	3549.077	ug/L	0.048
Fe	56	-1.491912	3832651.459	ug/L	9.585
Fe	57	-1.361417	11431.662	ug/L	1.536
Co	59	-0.013727	487.018	ug/L	0.003
Ni	60	0.020542	133.669	ug/L	0.001
Ni	62	0.002200	58.667	ug/L	0.023
Cu	63	-0.086510	484.351	ug/L	0.003
Zn	64	0.199138	1417.739	ug/L	0.020
Cu	65	0.026645	201.004	ug/L	0.000
Zn	66	0.192481	798.376	ug/L	0.024
Zn	68	0.224679	673.032	ug/L	0.044
Ge	72		182255.512	ug/L	
As	75	-0.007158	-313.890	ug/L	0.050
Se	74	-23.222986	16349.896	mg/L	0.192
ArCl	77		785.042	ug/L	
Br	79		2697.428	ug/L	

Br	81		31312.489	ug/L	
Y	89		497454.360	ug/L	
Mo	95	0.036415	208.004	ug/L	0.004
Rh	103		446109.111	ug/L	
Ag	107	0.454732	7014.789	ug/L	0.060
Ag	109	0.446743	6669.188	ug/L	0.051
Cd	111	0.008730	119.335	ug/L	0.007
Cd	114	0.011866	279.674	ug/L	0.008
In	115		566544.460	ug/L	
Sb	121	0.021027	326.342	ug/L	0.001
Sb	123	0.021882	261.831	ug/L	0.004
Ba	137	0.175534	943.058	ug/L	0.008
Ba	138	0.180118	6102.581	ug/L	0.004
Tb	159		627898.636	ug/L	
Ho	165		598046.395	ug/L	
Hg	200	-0.001846	20.000	ug/L	0.004
Hg	202	-0.002905	23.334	ug/L	0.002
Tl	205	0.005942	1087.409	ug/L	0.002
Pb	208	0.004684	1344.386	ug/L	0.005
Bi	209		450836.475	ug/L	
Se	77	-1.671252	728.029	mg/L	0.177
Se	78	-3.280480	18254.906	mg/L	0.405
Se	82	0.150348	29.458	mg/L	0.093

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		99.168
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.889
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.000
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 92.325
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.12
Sample Date/Time: Friday, September 07, 2012 09:21:30
Autosampler Position: 120
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12.49201

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6108.721	ug/L	
Be	9	-0.008804	4.000	ug/L	0.003
B	10	1.852459	269.340	ug/L	0.131
B	11	1.767884	1233.763	ug/L	0.007
C	12		967157.170	ug/L	
Na	23	426.652798	3119623.885	ug/L	0.844
Mg	24	24.994051	124580.482	ug/L	0.458
Mg	25	24.872346	17144.537	ug/L	0.460
Al	27	21.527271	170494.229	ug/L	0.453
Si	28		2273364.719	ug/L	
P	31	-1.337540	11531.809	ug/L	1.726
S	32		107713374.339	ug/L	
Cl	35		10166802.424	ug/L	
K	39	24.715262	1201908.738	ug/L	0.518
Ca	44	195.039340	104291.982	ug/L	8.921
Sc	45		218796.406	ug/L	
Ti	47	-0.652074	329.009	ug/L	0.074
Ti	48	0.352715	768.140	ug/L	0.016
V	51	0.306519	38675.149	ug/L	0.003
ClO	51		39955.027	ug/L	
Cr	52	0.175312	12648.663	ug/L	0.016
Cr	53	0.488828	12160.585	ug/L	0.143
Fe	54	6.477249	69630.663	ug/L	3.731
Mn	55	-0.099657	17252.215	ug/L	0.062
Fe	56	4.137780	3899181.710	ug/L	5.075
Fe	57	4.951497	13511.395	ug/L	1.552
Co	59	0.002928	695.367	ug/L	0.002
Ni	60	0.669540	1870.545	ug/L	0.015
Ni	62	0.631403	309.675	ug/L	0.013
Cu	63	1.175399	8299.537	ug/L	0.003
Zn	64	3.583230	11035.498	ug/L	0.005
Cu	65	1.271874	3949.230	ug/L	0.007
Zn	66	3.548095	6472.702	ug/L	0.000
Zn	68	3.502168	4606.213	ug/L	0.046
Ge	72		187217.526	ug/L	
As	75	0.006993	-297.371	ug/L	0.030
Se	74	-0.747787	15985.592	mg/L	51.724
ArCl	77		910.388	ug/L	
Br	79		2833.137	ug/L	

Br	81		31917.256	ug/L	
Y	89		501255.754	ug/L	
Mo	95	0.116580	586.358	ug/L	0.009
Rh	103		451980.785	ug/L	
Ag	107	0.691968	10114.078	ug/L	0.067
Ag	109	0.694667	9788.712	ug/L	0.056
Cd	111	0.009077	121.669	ug/L	0.001
Cd	114	0.011172	277.674	ug/L	0.002
In	115		572157.028	ug/L	
Sb	121	0.027884	402.346	ug/L	0.003
Sb	123	0.023708	279.414	ug/L	0.001
Ba	137	0.291329	1534.145	ug/L	0.002
Ba	138	0.294637	9860.773	ug/L	0.006
Tb	159		640311.094	ug/L	
Ho	165		606976.311	ug/L	
Hg	200	-0.001523	21.000	ug/L	0.000
Hg	202	-0.004810	18.667	ug/L	0.001
Tl	205	-0.001668	910.388	ug/L	0.002
Pb	208	0.111330	5077.278	ug/L	0.002
Bi	209		470928.557	ug/L	
Se	77	-1.179708	801.369	mg/L	0.973
Se	78	-2.701268	18520.691	mg/L	0.314
Se	82	-0.036130	-9.575	mg/L	0.138

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		98.602
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 93.364
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 90.891
Sb
Sb
Ba
Ba
Tb
> Ho 93.704
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.08
Sample Date/Time: Friday, September 07, 2012 09:28:03
Autosampler Position: 121
Sample Description: Aqdis 1:1 Sc mets rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.08.49202

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6148.748	ug/L	
Be	9	-0.007542	5.000	ug/L	0.001
B	10	57.940317	5144.840	ug/L	0.561
B	11	59.627911	24951.445	ug/L	0.349
C	12		3682115.648	ug/L	
Na	23	7737.328488	64529109.868	ug/L	224.488
Mg	24	4064.453491	23085707.308	ug/L	70.440
Mg	25	4173.249859	3276461.482	ug/L	93.682
Al	27	1.874289	25438.081	ug/L	0.053
Si	28		34669198.327	ug/L	
P	31	73.619169	53106.650	ug/L	0.370
S	32		109664761.419	ug/L	
Cl	35		9939602.837	ug/L	
K	39	7123.960200	101152615.401	ug/L	72.792
Ca	44	19999.324035	8025318.435	ug/L	188.138
Sc	45		250458.189	ug/L	
Ti	47	0.744584	1850.207	ug/L	0.007
Ti	48	13.253385	147628.944	ug/L	0.556
V	51	-0.018116	39454.159	ug/L	0.057
ClO	51		41164.741	ug/L	
Cr	52	0.087719	13412.795	ug/L	0.018
Cr	53	-0.620727	12192.960	ug/L	0.080
Fe	54	21843.348447	23043176.307	ug/L	250.725
Mn	55	568.850495	10900528.489	ug/L	11.330
Fe	56	21865.908021	394201119.605	ug/L	545.910
Fe	57	24613.102282	9559085.007	ug/L	425.265
Co	59	2.350814	34838.977	ug/L	0.033
Ni	60	4.476598	13806.281	ug/L	0.089
Ni	62	4.045429	1915.221	ug/L	0.048
Cu	63	0.002527	1182.755	ug/L	0.002
Zn	64	1.261330	5070.881	ug/L	0.076
Cu	65	0.071585	383.679	ug/L	0.001
Zn	66	1.098466	2663.750	ug/L	0.024
Zn	68	1.481014	2493.700	ug/L	0.025
Ge	72		189572.529	ug/L	
As	75	110.748517	202479.009	ug/L	2.206
Se	74	213.890992	8448.996	mg/L	15.181
ArCl	77		902.054	ug/L	
Br	79		21172.505	ug/L	

Br	81		48753.538	ug/L	
Y	89		499006.311	ug/L	
Mo	95	0.206343	1016.734	ug/L	0.001
Rh	103		433110.972	ug/L	
Ag	107	0.431966	6639.494	ug/L	0.020
Ag	109	0.432861	6413.660	ug/L	0.008
Cd	111	0.003534	102.002	ug/L	0.004
Cd	114	0.005028	228.005	ug/L	0.002
In	115		558757.636	ug/L	
Sb	121	0.046504	586.025	ug/L	0.001
Sb	123	0.044786	440.501	ug/L	0.002
Ba	137	7.022099	34506.043	ug/L	0.173
Ba	138	6.976745	220268.234	ug/L	0.168
Tb	159		613388.884	ug/L	
Ho	165		581628.745	ug/L	
Hg	200	-0.003672	16.000	ug/L	0.001
Hg	202	-0.003975	20.000	ug/L	0.001
Tl	205	-0.001418	877.718	ug/L	0.004
Pb	208	0.003381	1262.047	ug/L	0.005
Bi	209		454133.848	ug/L	
Se	77	-0.357491	924.047	mg/L	0.316
Se	78	-3.858001	17989.898	mg/L	1.079
Se	82	0.323337	65.667	mg/L	0.000

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		112.871
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 94.538
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 88.763
Sb
Sb
Ba
Ba
Tb
> Ho 89.790
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Friday, September 07, 2012 18:38:10	100	97	99	101
QC Std 2	Friday, September 07, 2012 18:44:36	98	97	98	99
QC Std 3	Friday, September 07, 2012 18:51:00	97	96	97	98
QC Std 5	Friday, September 07, 2012 18:57:24	98	97	97	99
QC Std 6	Friday, September 07, 2012 19:03:48	101	100	98	99
LLCS	Friday, September 07, 2012 19:29:31	99	99	98	100
ICSA	Friday, September 07, 2012 19:35:56	100	101	94	97
ICSAB	Friday, September 07, 2012 19:42:22	99	101	93	98
5ppm LRC-flush	Friday, September 07, 2012 19:48:47	102	99	97	100
BLK	Friday, September 07, 2012 20:01:40	106	102	102	105
BLK	Friday, September 07, 2012 20:08:07	104	101	102	103
QC Std 1	Friday, September 07, 2012 20:14:34	103	100	99	102
QC Std 2	Friday, September 07, 2012 20:20:59	98	97	97	97
QC Std 5	Friday, September 07, 2012 20:27:23	97	97	97	99
QC Std 6	Friday, September 07, 2012 20:33:48	100	98	96	100
LCS	Friday, September 07, 2012 20:40:13	102	97	95	99
113593.02	Friday, September 07, 2012 21:05:52	103	97	98	99
113593.04	Friday, September 07, 2012 21:12:16	101	96	97	99
113593.06	Friday, September 07, 2012 21:18:41	100	97	97	98
113653.14	Friday, September 07, 2012 21:25:07	102	96	98	100
113653.15	Friday, September 07, 2012 21:31:33	101	97	97	100
113653.16	Friday, September 07, 2012 21:37:59	104	99	101	101
QC Std 1	Friday, September 07, 2012 21:44:26	103	99	100	102
QC Std 2	Friday, September 07, 2012 21:50:51	99	98	100	101
QC Std 5	Friday, September 07, 2012 21:57:15	97	96	99	98
QC Std 6	Friday, September 07, 2012 22:03:40	96	95	93	96
113653.17	Friday, September 07, 2012 22:10:05	101	99	99	100
113653.18	Friday, September 07, 2012 22:16:32	103	100	100	100
113689.03	Friday, September 07, 2012 22:22:58	100	98	98	100
113689.09	Friday, September 07, 2012 22:29:24	101	98	98	99
113689.1	Friday, September 07, 2012 22:35:49	98	98	98	99
113689.11	Friday, September 07, 2012 22:42:14	101	96	98	99
113593.02 MS	Friday, September 07, 2012 22:48:39	100	95	92	95
113593.02 MSD	Friday, September 07, 2012 22:55:05	98	93	91	95
113653.17 MS	Friday, September 07, 2012 23:01:30	95	92	90	94
113653.17 MSD	Friday, September 07, 2012 23:07:55	97	89	89	92
QC Std 1	Friday, September 07, 2012 23:14:22	94	89	92	93
QC Std 2	Friday, September 07, 2012 23:20:47	93	89	91	93
QC Std 5	Friday, September 07, 2012 23:27:11	93	89	90	93
QC Std 6	Friday, September 07, 2012 23:33:36	95	91	90	96
113593.01	Friday, September 07, 2012 23:59:20	107	93	90	94
113593.03	Saturday, September 08, 2012 00:05:47	104	92	92	96
113593.07	Saturday, September 08, 2012 00:12:12	99	91	90	95
113653.01	Saturday, September 08, 2012 00:18:38	108	92	91	94
113653.02	Saturday, September 08, 2012 00:25:03	100	91	89	93
113653.03	Saturday, September 08, 2012 00:31:29	102	89	90	93
113653.06	Saturday, September 08, 2012 00:37:55	105	91	91	95
QC Std 1	Saturday, September 08, 2012 00:44:21	93	89	92	94
QC Std 2	Saturday, September 08, 2012 00:50:46	87	87	89	90
QC Std 5	Saturday, September 08, 2012 00:57:10	88	89	90	92
QC Std 6	Saturday, September 08, 2012 01:03:35	95	92	91	95
113653.07	Saturday, September 08, 2012 01:10:05	104	93	90	95
113653.08	Saturday, September 08, 2012 01:16:36	104	92	91	94
113689.08	Saturday, September 08, 2012 01:23:06	102	89	91	93
113653.07 MS	Saturday, September 08, 2012 01:29:38	102	90	87	91

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.07 MSD	Saturday, September 08, 2012 01:36:09	101	90	88	91
113689.08 MS	Saturday, September 08, 2012 01:42:41	95	87	85	89
113689.08 MSD	Saturday, September 08, 2012 01:49:12	98	87	86	90
QC Std 1	Saturday, September 08, 2012 02:15:12	88	86	89	91
QC Std 2	Saturday, September 08, 2012 02:21:37	85	84	87	89
QC Std 5	Saturday, September 08, 2012 02:28:01	85	85	87	90
QC Std 6	Saturday, September 08, 2012 02:34:25	90	88	88	93
113593.02	Saturday, September 08, 2012 02:40:56	105	86	85	90
113593.04	Saturday, September 08, 2012 02:47:27	102	85	86	89
113593.05	Saturday, September 08, 2012 02:53:58	99	89	87	92
113593.06	Saturday, September 08, 2012 03:00:29	100	84	84	89
113593.08	Saturday, September 08, 2012 03:07:00	115	90	87	90
113593.09	Saturday, September 08, 2012 03:13:31	100	88	88	92
113593.1	Saturday, September 08, 2012 03:20:02	103	92	89	90
113593.11	Saturday, September 08, 2012 03:26:34	89	88	88	93
113593.12	Saturday, September 08, 2012 03:33:06	87	86	87	90
113653.04	Saturday, September 08, 2012 03:39:37	107	92	90	91
QC Std 1	Saturday, September 08, 2012 03:46:04	91	90	90	94
QC Std 2	Saturday, September 08, 2012 03:52:29	87	86	87	89
QC Std 5	Saturday, September 08, 2012 03:58:53	88	87	88	89
QC Std 6	Saturday, September 08, 2012 04:05:18	92	90	88	91
113653.05	Saturday, September 08, 2012 04:11:48	109	90	88	90
113653.09	Saturday, September 08, 2012 04:18:20	107	90	88	92
113653.1	Saturday, September 08, 2012 04:24:51	110	93	88	95
113653.11	Saturday, September 08, 2012 04:31:22	111	93	89	93
113653.12	Saturday, September 08, 2012 04:37:53	105	93	89	92
113653.13	Saturday, September 08, 2012 04:44:25	109	92	90	94
113653.14	Saturday, September 08, 2012 04:50:56	117	90	88	94
113653.15	Saturday, September 08, 2012 04:57:27	104	86	83	88
113653.16	Saturday, September 08, 2012 05:03:59	103	87	85	90
113653.17	Saturday, September 08, 2012 05:10:31	104	87	85	90
QC Std 1	Saturday, September 08, 2012 05:16:58	95	89	90	94
QC Std 2	Saturday, September 08, 2012 05:23:23	90	89	89	92
QC Std 5	Saturday, September 08, 2012 05:29:47	90	87	88	91
QC Std 6	Saturday, September 08, 2012 05:36:12	96	93	88	95
113653.18	Saturday, September 08, 2012 05:42:43	113	90	86	91
113653.2	Saturday, September 08, 2012 05:49:14	94	89	91	94
113689.01	Saturday, September 08, 2012 05:55:46	106	91	89	94
113689.02	Saturday, September 08, 2012 06:02:17	106	89	87	93
113689.03	Saturday, September 08, 2012 06:08:49	114	86	84	90
113689.04	Saturday, September 08, 2012 06:15:21	104	89	87	91
113689.05	Saturday, September 08, 2012 06:21:53	110	89	88	92
113689.06	Saturday, September 08, 2012 06:28:24	110	87	86	89
113689.07	Saturday, September 08, 2012 06:34:56	100	86	84	89
113689.09	Saturday, September 08, 2012 06:41:27	101	84	82	87
QC Std 1	Saturday, September 08, 2012 06:47:55	87	85	85	90
QC Std 2	Saturday, September 08, 2012 06:54:20	83	82	82	85
QC Std 5	Saturday, September 08, 2012 07:00:44	84	82	82	85
QC Std 6	Saturday, September 08, 2012 07:07:09	89	86	84	88
113689.1	Saturday, September 08, 2012 07:13:40	98	83	81	86
113689.11	Saturday, September 08, 2012 07:20:12	106	83	82	86
113593.12 MS	Saturday, September 08, 2012 07:26:44	88	85	84	88
113593.12 MSD	Saturday, September 08, 2012 07:33:16	89	84	83	86
113653.01	Saturday, September 08, 2012 07:59:26	109	87	83	87
113653.02	Saturday, September 08, 2012 08:05:58	102	85	80	84

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.04	Saturday, September 08, 2012 08:12:30	108	87	86	89
QC Std 1	Saturday, September 08, 2012 08:18:58	87	85	85	88
QC Std 2	Saturday, September 08, 2012 08:25:23	84	83	83	86
QC Std 5	Saturday, September 08, 2012 08:31:47	85	84	85	87
QC Std 6	Saturday, September 08, 2012 08:38:12	87	87	84	88
113653.05	Saturday, September 08, 2012 08:44:43	106	87	84	88
113653.06	Saturday, September 08, 2012 08:51:15	107	87	83	87
113653.07	Saturday, September 08, 2012 08:57:48	103	85	83	87
113653.07 MS	Saturday, September 08, 2012 09:04:20	100	83	80	83
113653.07 MSD	Saturday, September 08, 2012 09:10:52	97	82	80	84
113653.08	Saturday, September 08, 2012 09:37:03	100	82	81	86
113653.09	Saturday, September 08, 2012 09:43:36	99	85	84	87
QC Std 1	Saturday, September 08, 2012 09:50:03	83	84	84	87
QC Std 2	Saturday, September 08, 2012 09:56:29	82	83	82	86
QC Std 5	Saturday, September 08, 2012 10:02:53	84	83	83	86
QC Std 6	Saturday, September 08, 2012 10:09:18	86	85	84	87
113653.1	Saturday, September 08, 2012 10:15:49	99	83	83	85
113653.11	Saturday, September 08, 2012 10:22:22	101	86	83	88
113653.12	Saturday, September 08, 2012 10:28:54	96	85	83	87
113653.13	Saturday, September 08, 2012 10:35:27	95	84	82	86
113653.16	Saturday, September 08, 2012 10:42:00	96	83	81	85
113653.17	Saturday, September 08, 2012 10:48:32	94	79	78	82
113653.2	Saturday, September 08, 2012 10:55:05	84	83	84	86
113689.01	Saturday, September 08, 2012 11:01:38	94	83	83	86
113689.01 MS	Saturday, September 08, 2012 11:08:11	97	84	81	85
113689.01 MSD	Saturday, September 08, 2012 11:14:44	98	84	81	84
QC Std 1	Saturday, September 08, 2012 11:21:11	85	84	82	87
QC Std 2	Saturday, September 08, 2012 11:27:37	84	83	83	86
QC Std 5	Saturday, September 08, 2012 11:34:01	85	83	83	86
QC Std 6	Saturday, September 08, 2012 11:40:26	87	86	83	88
113689.02	Saturday, September 08, 2012 12:06:36	98	84	82	88
113689.03	Saturday, September 08, 2012 12:13:09	106	81	79	84
113689.04	Saturday, September 08, 2012 12:19:42	92	81	80	84
113689.05	Saturday, September 08, 2012 12:26:15	89	77	77	80
113689.07	Saturday, September 08, 2012 12:32:48	86	78	77	80
113689.08	Saturday, September 08, 2012 12:39:21	97	79	77	82
113689.09	Saturday, September 08, 2012 12:45:54	91	79	77	82
QC Std 1	Saturday, September 08, 2012 12:52:22	81	79	81	85
QC Std 2	Saturday, September 08, 2012 12:58:47	79	78	80	83
QC Std 5	Saturday, September 08, 2012 13:05:12	80	80	81	83
QC Std 6	Saturday, September 08, 2012 13:11:36	87	84	83	86
113689.1	Saturday, September 08, 2012 13:18:08	94	82	79	85
113689.11	Saturday, September 08, 2012 13:24:42	100	81	79	83
QC Std 1	Saturday, September 08, 2012 13:31:09	83	82	85	87
QC Std 2	Saturday, September 08, 2012 13:37:35	81	83	84	86
QC Std 5	Saturday, September 08, 2012 13:43:59	79	80	82	86
QC Std 6	Saturday, September 08, 2012 13:50:24	86	84	82	85

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 18:38:10
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.762981	ug/L		< 50
Ca	44	5.370319	ug/L		< 50
Fe	54	7.177708	ug/L		< 50
Fe	56	5.286731	ug/L		< 50
Fe	57	-0.778852	ug/L		< 50
Ge	72		ug/L	97.399	
Ho	165		ug/L	100.936	
In	115		ug/L	98.844	
Mg	24	0.043825	ug/L		< 50
Mg	25	0.070452	ug/L		< 50
Mn	55	-0.001824	ug/L		< 5
Na	23	-1.054749	ug/L		< 5000
Sc	45		ug/L	99.7	

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 20:14:34
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.846713	ug/L		< 50
Ca	44	0.273469	ug/L		< 50
Fe	54	3.753112	ug/L		< 50
Fe	56	-1.5092	ug/L		< 50
Fe	57	-1.532881	ug/L		< 50
Ge	72		ug/L	100.329	
Ho	165		ug/L	102.074	
In	115		ug/L	99.455	
Mg	24	-0.016678	ug/L		< 50
Mg	25	-0.013059	ug/L		< 50
Mn	55	-0.011139	ug/L		< 5
Na	23	-1.221769	ug/L		< 5000
Sc	45		ug/L	102.831	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Friday, September 07, 2012 21:44:26	Sample Date/Time:	Friday, September 07, 2012 23:14:22
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.848913	ug/L		< 50	Al	27	-0.737747	ug/L		< 50
Ca	44	-0.932593	ug/L		< 50	Ca	44	-1.940492	ug/L		< 50
Fe	54	4.967352	ug/L		< 50	Fe	54	4.448004	ug/L		< 50
Fe	56	1.077024	ug/L		< 50	Fe	56	-9.052308	ug/L		< 50
Fe	57	-3.007094	ug/L		< 50	Fe	57	-7.100305	ug/L		< 50
Ge	72		ug/L	98.741		Ge	72		ug/L	89.302	
Ho	165		ug/L	102.173		Ho	165		ug/L	93.486	
In	115		ug/L	100.354		In	115		ug/L	91.565	
Mg	24	-0.001243	ug/L		< 50	Mg	24	0.051856	ug/L		< 50
Mg	25	0.01821	ug/L		< 50	Mg	25	0.048126	ug/L		< 50
Mn	55	-0.004059	ug/L		< 5	Mn	55	0.000192	ug/L		< 5
Na	23	-1.00803	ug/L		< 5000	Na	23	-0.643553	ug/L		< 5000
Sc	45		ug/L	103.291		Sc	45		ug/L	93.625	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 00:44:21	Sample Date/Time:	Saturday, September 08, 2012 02:15:12
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.82467	ug/L		< 50	Al	27	-0.831116	ug/L		< 50
Ca	44	-5.59895	ug/L		< 50	Ca	44	-3.329458	ug/L		< 50
Fe	54	8.136208	ug/L		< 50	Fe	54	9.263843	ug/L		< 50
Fe	56	0.763253	ug/L		< 50	Fe	56	12.144718	ug/L		< 50
Fe	57	-5.8138	ug/L		< 50	Fe	57	-3.232825	ug/L		< 50
Ge	72		ug/L	89.407		Ge	72		ug/L	86.408	
Ho	165		ug/L	93.797		Ho	165		ug/L	91.194	
In	115		ug/L	91.624		In	115		ug/L	88.971	
Mg	24	0.077979	ug/L		< 50	Mg	24	0.009493	ug/L		< 50
Mg	25	0.009773	ug/L		< 50	Mg	25	0.037663	ug/L		< 50
Mn	55	-0.008424	ug/L		< 5	Mn	55	0.019377	ug/L		< 5
Na	23	-0.374709	ug/L		< 5000	Na	23	-0.041478	ug/L		< 5000
Sc	45		ug/L	92.926		Sc	45		ug/L	88.465	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 03:46:04
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.825339	ug/L		< 50
Ca	44	-7.940643	ug/L		< 50
Fe	54	7.079365	ug/L		< 50
Fe	56	0.89331	ug/L		< 50
Fe	57	-5.024962	ug/L		< 50
Ge	72		ug/L	90.104	
Ho	165		ug/L	94.277	
In	115		ug/L	89.99	
Mg	24	0.037558	ug/L		< 50
Mg	25	0.023138	ug/L		< 50
Mn	55	0.070064	ug/L		< 5
Na	23	0.889554	ug/L		< 5000
Sc	45		ug/L	90.813	

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 05:16:58
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.834975	ug/L		< 50
Ca	44	-11.595541	ug/L		< 50
Fe	54	9.351822	ug/L		< 50
Fe	56	12.318339	ug/L		< 50
Fe	57	-4.170961	ug/L		< 50
Ge	72		ug/L	89.057	
Ho	165		ug/L	94.243	
In	115		ug/L	89.791	
Mg	24	0.084296	ug/L		< 50
Mg	25	0.113633	ug/L		< 50
Mn	55	0.028048	ug/L		< 5
Na	23	4.137292	ug/L		< 5000
Sc	45		ug/L	94.95	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 06:47:55	Sample Date/Time:	Saturday, September 08, 2012 08:18:58
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.794713	ug/L		< 50	Al	27	-0.781539	ug/L		< 50
Ca	44	-8.98912	ug/L		< 50	Ca	44	-7.76439	ug/L		< 50
Fe	54	8.991527	ug/L		< 50	Fe	54	11.546793	ug/L		< 50
Fe	56	25.903916	ug/L		< 50	Fe	56	10.711752	ug/L		< 50
Fe	57	-5.92038	ug/L		< 50	Fe	57	-3.65967	ug/L		< 50
Ge	72		ug/L	85.408		Ge	72		ug/L	84.836	
Ho	165		ug/L	89.877		Ho	165		ug/L	88.463	
In	115		ug/L	84.53		In	115		ug/L	85.057	
Mg	24	0.224152	ug/L		< 50	Mg	24	0.146286	ug/L		< 50
Mg	25	0.229947	ug/L		< 50	Mg	25	0.124174	ug/L		< 50
Mn	55	0.026233	ug/L		< 5	Mn	55	0.111538	ug/L		< 5
Na	23	3.823404	ug/L		< 5000	Na	23	2.742379	ug/L		< 5000
Sc	45		ug/L	87.198		Sc	45		ug/L	87.228	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 09:50:03	Sample Date/Time:	Saturday, September 08, 2012 11:21:11
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.799773	ug/L		< 50	Al	27	-0.668976	ug/L		< 50
Ca	44	-0.661895	ug/L		< 50	Ca	44	-3.955676	ug/L		< 50
Fe	54	12.806004	ug/L		< 50	Fe	54	12.450988	ug/L		< 50
Fe	56	21.201217	ug/L		< 50	Fe	56	27.555675	ug/L		< 50
Fe	57	-4.078429	ug/L		< 50	Fe	57	-2.815323	ug/L		< 50
Ge	72		ug/L	83.6		Ge	72		ug/L	84.013	
Ho	165		ug/L	86.679		Ho	165		ug/L	87.159	
In	115		ug/L	84.114		In	115		ug/L	82.406	
Mg	24	0.1595	ug/L		< 50	Mg	24	0.28736	ug/L		< 50
Mg	25	0.161189	ug/L		< 50	Mg	25	0.287397	ug/L		< 50
Mn	55	0.047615	ug/L		< 5	Mn	55	0.052023	ug/L		< 5
Na	23	3.076573	ug/L		< 5000	Na	23	2.78854	ug/L		< 5000
Sc	45		ug/L	82.606		Sc	45		ug/L	85.25	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID QC Std 1
Sample D: Saturday, September 08, 2012 12:52:22
Sample Description: Blank

CV sum
Sample Date/Time: Saturday, September 08, 2012 13:31:09
Sample Description: Blank

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Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.780324	ug/L		< 50
Ca	44	-2.481456	ug/L		< 50
Fe	54	10.11744	ug/L		< 50
Fe	56	39.041042	ug/L		< 50
Fe	57	-3.173767	ug/L		< 50
Ge	72		ug/L	79.436	
Ho	165		ug/L	84.52	
In	115		ug/L	80.617	
Mg	24	0.440754	ug/L		< 50
Mg	25	0.366217	ug/L		< 50
Mn	55	0.030563	ug/L		< 5
Na	23	5.720763	ug/L		< 5000
Sc	45		ug/L	80.885	

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.755159	ug/L		< 50
Ca	44	-7.215805	ug/L		< 50
Fe	54	12.465994	ug/L		< 50
Fe	56	35.217536	ug/L		< 50
Fe	57	-2.171576	ug/L		< 50
Ge	72		ug/L	82.12	
Ho	165		ug/L	86.889	
In	115		ug/L	84.535	
Mg	24	0.515661	ug/L		< 50
Mg	25	0.485953	ug/L		< 50
Mn	55	0.029926	ug/L		< 5
Na	23	6.332975	ug/L		< 5000
Sc	45		ug/L	83.463	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 18:44:36
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		97.003	
Ho	165		ug/L		98.557	
In	115		ug/L		97.578	
Mn	55	97.987948	ug/L	97.598		100
Sc	45		ug/L		97.97	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 20:20:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		96.918	
Ho	165		ug/L		97.453	
In	115		ug/L		96.888	
Mn	55	102.11727	ug/L	101.71		100
Sc	45		ug/L		97.533	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 18:57:24
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	239.706601	ug/L	91.842		261
Fe	54	224.411917	ug/L	93.117		241
Fe	56	247.191479	ug/L	102.569		241
Fe	57	243.611542	ug/L	101.084		241
Ge	72		ug/L		97.266	
Ho	165		ug/L		98.692	
In	115		ug/L		97.471	
Sc	45		ug/L		97.687	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 20:27:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.933841	ug/L	93.844		261
Fe	54	233.216321	ug/L	96.77		241
Fe	56	251.946725	ug/L	104.542		241
Fe	57	250.551404	ug/L	103.963		241
Ge	72		ug/L		97.244	
Ho	165		ug/L		98.628	
In	115		ug/L		96.65	
Sc	45		ug/L		96.649	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 19:03:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9821.04106	ug/L	98.21		10000
Ca	44	10868.5528	ug/L	108.686		10000
Fe	54	9719.4603	ug/L	97.195		10000
Fe	56	9273.51168	ug/L	92.735		10000
Ge	72		ug/L		99.593	
Ho	165		ug/L		99.227	
In	115		ug/L		97.714	
Mg	24	9617.06466	ug/L	96.171		10000
Mg	25	9514.15647	ug/L	95.142		10000
Na	23	9735.18095	ug/L	97.352		10000
Sc	45		ug/L		101.112	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 20:33:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10122.9206	ug/L	101.229		10000
Ca	44	10760.4728	ug/L	107.605		10000
Fe	54	9935.72185	ug/L	99.357		10000
Fe	56	9778.40894	ug/L	97.784		10000
Ge	72		ug/L		97.869	
Ho	165		ug/L		99.77	
In	115		ug/L		95.899	
Mg	24	9850.65187	ug/L	98.507		10000
Mg	25	9689.54824	ug/L	96.895		10000
Na	23	9811.68527	ug/L	98.117		10000
Sc	45		ug/L		100.372	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 21:50:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		98.365	
Ho	165		ug/L		100.869	
In	115		ug/L		99.644	
Mn	55	98.350618	ug/L	97.959		100
Sc	45		ug/L		99.298	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 23:20:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		89.047	
Ho	165		ug/L		93.476	
In	115		ug/L		90.743	
Mn	55	96.727627	ug/L	96.342		100
Sc	45		ug/L		93.034	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 21:57:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	240.640902	ug/L	92.2		261
Fe	54	228.769029	ug/L	94.925		241
Fe	56	260.013622	ug/L	107.889		241
Fe	57	241.573979	ug/L	100.238		241
Ge	72		ug/L		96.381	
Ho	165		ug/L		97.863	
In	115		ug/L		99.169	
Sc	45		ug/L		96.636	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 23:27:11
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	243.607706	ug/L	93.336		261
Fe	54	217.623034	ug/L	90.3		241
Fe	56	236.25211	ug/L	98.03		241
Fe	57	239.147715	ug/L	99.231		241
Ge	72		ug/L		89.122	
Ho	165		ug/L		93.145	
In	115		ug/L		89.862	
Sc	45		ug/L		93.07	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 22:03:40
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10072.7387	ug/L	100.727		10000
Ca	44	10952.3783	ug/L	109.524		10000
Fe	54	10206.8512	ug/L	102.069		10000
Fe	56	10042.2978	ug/L	100.423		10000
Ge	72		ug/L		94.586	
Ho	165		ug/L		95.928	
In	115		ug/L		93.189	
Mg	24	10156.6113	ug/L	101.566		10000
Mg	25	9987.61904	ug/L	99.876		10000
Na	23	10182.0068	ug/L	101.82		10000
Sc	45		ug/L		96.077	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 23:33:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10003.8754	ug/L	100.039		10000
Ca	44	10669.6801	ug/L	106.697		10000
Fe	54	9759.43554	ug/L	97.594		10000
Fe	56	9556.90106	ug/L	95.569		10000
Ge	72		ug/L		90.805	
Ho	165		ug/L		95.629	
In	115		ug/L		90.014	
Mg	24	9935.05165	ug/L	99.351		10000
Mg	25	9713.54015	ug/L	97.135		10000
Na	23	9844.06417	ug/L	98.441		10000
Sc	45		ug/L		95.333	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 00:50:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		87.174	
Ho	165		ug/L		90.083	
In	115		ug/L		88.755	
Mn	55	103.209128	ug/L	102.798		100
Sc	45		ug/L		87.286	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 02:21:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		84.253	
Ho	165		ug/L		88.767	
In	115		ug/L		87.242	
Mn	55	101.407433	ug/L	101.003		100
Sc	45		ug/L		84.976	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 00:57:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	255.14964	ug/L	97.758		261
Fe	54	242.966482	ug/L	100.816		241
Fe	56	256.802865	ug/L	106.557		241
Fe	57	243.611175	ug/L	101.083		241
Ge	72		ug/L		88.689	
Ho	165		ug/L		92.055	
In	115		ug/L		89.799	
Sc	45		ug/L		88.484	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 02:28:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	250.459206	ug/L	95.961		261
Fe	54	231.972135	ug/L	96.254		241
Fe	56	253.007992	ug/L	104.983		241
Fe	57	247.311975	ug/L	102.619		241
Ge	72		ug/L		85.112	
Ho	165		ug/L		90.007	
In	115		ug/L		86.857	
Sc	45		ug/L		84.784	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 01:03:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10206.1983	ug/L	102.062		10000
Ca	44	10834.1078	ug/L	108.341		10000
Fe	54	9812.10925	ug/L	98.121		10000
Fe	56	9722.09183	ug/L	97.221		10000
Ge	72		ug/L		92.248	
Ho	165		ug/L		94.51	
In	115		ug/L		90.695	
Mg	24	10316.7968	ug/L	103.168		10000
Mg	25	10146.2322	ug/L	101.462		10000
Na	23	10032.7837	ug/L	100.328		10000
Sc	45		ug/L		95.195	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 02:34:25
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10195.7436	ug/L	101.957		10000
Ca	44	11052.1775	ug/L	110.522		10000
Fe	54	9768.78946	ug/L	97.688		10000
Fe	56	9580.78899	ug/L	95.808		10000
Ge	72		ug/L		87.676	
Ho	165		ug/L		93.178	
In	115		ug/L		88.008	
Mg	24	10054.7446	ug/L	100.547		10000
Mg	25	10102.7576	ug/L	101.028		10000
Na	23	10192.0817	ug/L	101.921		10000
Sc	45		ug/L		90.361	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 03:52:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		85.705	
Ho	165		ug/L		88.935	
In	115		ug/L		87.026	
Mn	55	101.646839	ug/L	101.242		100
Sc	45		ug/L		86.754	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 05:23:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		88.715	
Ho	165		ug/L		92.062	
In	115		ug/L		88.844	
Mn	55	102.074017	ug/L	101.667		100
Sc	45		ug/L		89.924	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 03:58:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.022578	ug/L	93.878		261
Fe	54	233.553637	ug/L	96.91		241
Fe	56	251.965528	ug/L	104.55		241
Fe	57	246.001919	ug/L	102.075		241
Ge	72		ug/L		87.05	
Ho	165		ug/L		88.806	
In	115		ug/L		88.128	
Sc	45		ug/L		88.419	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 05:29:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	249.308178	ug/L	95.52		261
Fe	54	232.980879	ug/L	96.673		241
Fe	56	263.633303	ug/L	109.391		241
Fe	57	246.459145	ug/L	102.265		241
Ge	72		ug/L		86.682	
Ho	165		ug/L		90.655	
In	115		ug/L		87.966	
Sc	45		ug/L		90.278	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 04:05:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9918.1596	ug/L	99.182		10000
Ca	44	10613.2698	ug/L	106.133		10000
Fe	54	9474.74126	ug/L	94.747		10000
Fe	56	9246.39579	ug/L	92.464		10000
Ge	72		ug/L		89.768	
Ho	165		ug/L		91.441	
In	115		ug/L		87.766	
Mg	24	9992.75358	ug/L	99.928		10000
Mg	25	9692.79444	ug/L	96.928		10000
Na	23	9864.07804	ug/L	98.641		10000
Sc	45		ug/L		92.095	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 05:36:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10078.3115	ug/L	100.783		10000
Ca	44	10837.822	ug/L	108.378		10000
Fe	54	9685.44128	ug/L	96.854		10000
Fe	56	9549.35141	ug/L	95.494		10000
Ge	72		ug/L		93.21	
Ho	165		ug/L		94.84	
In	115		ug/L		87.987	
Mg	24	9898.17902	ug/L	98.982		10000
Mg	25	9999.70596	ug/L	99.997		10000
Na	23	10140.2359	ug/L	101.402		10000
Sc	45		ug/L		95.571	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 06:54:20
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.433	
Ho	165		ug/L		84.85	
In	115		ug/L		82.18	
Mn	55	101.120024	ug/L	100.717		100
Sc	45		ug/L		82.533	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 08:25:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.52	
Ho	165		ug/L		85.688	
In	115		ug/L		82.522	
Mn	55	102.13096	ug/L	101.724		100
Sc	45		ug/L		84.366	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 07:00:44
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.18656	ug/L	93.941		261
Fe	54	227.914056	ug/L	94.57		241
Fe	56	271.588126	ug/L	112.692		241
Fe	57	238.729371	ug/L	99.058		241
Ge	72		ug/L		81.66	
Ho	165		ug/L		84.936	
In	115		ug/L		82.463	
Sc	45		ug/L		84.185	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 08:31:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.149223	ug/L	93.544		261
Fe	54	223.801239	ug/L	92.864		241
Fe	56	251.36644	ug/L	104.301		241
Fe	57	234.526576	ug/L	97.314		241
Ge	72		ug/L		83.956	
Ho	165		ug/L		87.077	
In	115		ug/L		84.971	
Sc	45		ug/L		85.39	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 07:07:09
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10028.8908	ug/L	100.289		10000
Ca	44	10730.8532	ug/L	107.309		10000
Fe	54	9706.89708	ug/L	97.069		10000
Fe	56	9658.50601	ug/L	96.585		10000
Ge	72		ug/L		86.381	
Ho	165		ug/L		88.016	
In	115		ug/L		83.773	
Mg	24	10100.807	ug/L	101.008		10000
Mg	25	9963.28239	ug/L	99.633		10000
Na	23	9987.97701	ug/L	99.88		10000
Sc	45		ug/L		89.332	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 08:38:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10348.5488	ug/L	103.485		10000
Ca	44	10910.5324	ug/L	109.105		10000
Fe	54	9926.81306	ug/L	99.268		10000
Fe	56	9621.71089	ug/L	96.217		10000
Ge	72		ug/L		86.844	
Ho	165		ug/L		87.529	
In	115		ug/L		83.565	
Mg	24	10206.7881	ug/L	102.068		10000
Mg	25	10021.9309	ug/L	100.219		10000
Na	23	10278.3793	ug/L	102.784		10000
Sc	45		ug/L		87.337	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 09:56:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.815	
Ho	165		ug/L		85.505	
In	115		ug/L		82.467	
Mn	55	100.292462	ug/L	99.893		100
Sc	45		ug/L		81.817	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 11:27:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		83.263	
Ho	165		ug/L		86.245	
In	115		ug/L		82.617	
Mn	55	97.804386	ug/L	97.415		100
Sc	45		ug/L		84.44	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 10:02:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	241.57943	ug/L	92.559		261
Fe	54	233.970347	ug/L	97.083		241
Fe	56	256.749267	ug/L	106.535		241
Fe	57	239.115813	ug/L	99.218		241
Ge	72		ug/L		82.894	
Ho	165		ug/L		85.646	
In	115		ug/L		83.41	
Sc	45		ug/L		83.553	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 11:34:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.371946	ug/L	92.863		261
Fe	54	229.909119	ug/L	95.398		241
Fe	56	255.808153	ug/L	106.144		241
Fe	57	237.941729	ug/L	98.731		241
Ge	72		ug/L		83.332	
Ho	165		ug/L		85.811	
In	115		ug/L		83.293	
Sc	45		ug/L		84.928	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 10:09:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10139.3856	ug/L	101.394		10000
Ca	44	10798.0704	ug/L	107.981		10000
Fe	54	9736.36796	ug/L	97.364		10000
Fe	56	9598.96361	ug/L	95.99		10000
Ge	72		ug/L		84.589	
Ho	165		ug/L		86.965	
In	115		ug/L		83.539	
Mg	24	10021.9273	ug/L	100.219		10000
Mg	25	9936.44175	ug/L	99.364		10000
Na	23	10063.0831	ug/L	100.631		10000
Sc	45		ug/L		85.595	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 11:40:26
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9987.57075	ug/L	99.876		10000
Ca	44	10824.1353	ug/L	108.241		10000
Fe	54	9813.1487	ug/L	98.131		10000
Fe	56	9357.55451	ug/L	93.576		10000
Ge	72		ug/L		85.557	
Ho	165		ug/L		87.517	
In	115		ug/L		82.521	
Mg	24	9993.66247	ug/L	99.937		10000
Mg	25	10047.3328	ug/L	100.473		10000
Na	23	10083.1648	ug/L	100.832		10000
Sc	45		ug/L		87.293	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 12:58:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		78.234	
Ho	165		ug/L		82.769	
In	115		ug/L		80.199	
Mn	55	100.518983	ug/L	100.119		100
Sc	45		ug/L		79.051	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 13:37:35
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.72	
Ho	165		ug/L		86.027	
In	115		ug/L		83.828	
Mn	55	100.217078	ug/L	99.818		100
Sc	45		ug/L		81.428	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:05:12
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.136557	ug/L	92.773		261
Fe	54	231.813932	ug/L	96.188		241
Fe	56	280.099294	ug/L	116.224		241
Fe	57	245.458443	ug/L	101.85		241
Ge	72		ug/L		79.536	
Ho	165		ug/L		83.158	
In	115		ug/L		80.708	
Sc	45		ug/L		79.539	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:43:59
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	248.600398	ug/L	95.249		261
Fe	54	236.544791	ug/L	98.151		241
Fe	56	288.951988	ug/L	119.897		241
Fe	57	252.889631	ug/L	104.933		241
Ge	72		ug/L		80.194	
Ho	165		ug/L		85.602	
In	115		ug/L		82.25	
Sc	45		ug/L		79.333	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:11:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9737.32035	ug/L	97.373		10000
Ca	44	10568.1286	ug/L	105.681		10000
Fe	54	9547.97255	ug/L	95.48		10000
Fe	56	9594.99872	ug/L	95.95		10000
Ge	72		ug/L		84.136	
Ho	165		ug/L		85.935	
In	115		ug/L		82.595	
Mg	24	9701.60503	ug/L	97.016		10000
Mg	25	9694.41781	ug/L	96.944		10000
Na	23	9901.93632	ug/L	99.019		10000
Sc	45		ug/L		86.644	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:50:24
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10063.1198	ug/L	100.631		10000
Ca	44	10859.6103	ug/L	108.596		10000
Fe	54	9754.19231	ug/L	97.542		10000
Fe	56	9498.05269	ug/L	94.981		10000
Ge	72		ug/L		83.516	
Ho	165		ug/L		85.474	
In	115		ug/L		82.078	
Mg	24	9898.04058	ug/L	98.98		10000
Mg	25	9945.35833	ug/L	99.454		10000
Na	23	9963.49099	ug/L	99.635		10000
Sc	45		ug/L		86.097	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID ICSA
Sample Da Friday, September 07, 2012 19:35:56
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	-0.00278	ug/L			< 1
Ag	109	-0.00177	ug/L			< 1
Al	27	49059.94	ug/L			50000
As	75	-0.14036	ug/L			< 1
Ba	137	0.102439	ug/L			< 1
Be	9	0.015344	ug/L			< 1
Ca	44	53262.34	ug/L			50000
Cd	111	0.056792	ug/L			< 1
Cd	114	0.053708	ug/L			< 1
Co	59	0.111072	ug/L			< 1
Cr	52	0.455798	ug/L			< 1
Cu	63	1.032771	ug/L			1.03
Cu	65	0.650015	ug/L			< 1
Fe	54	48811.77	ug/L			50000
Fe	56	48004.1	ug/L			50000
Fe	57	54242.44	ug/L			50000
Ge	72		ug/L		100.866	
Hg	200	0.048078	ug/L			< 0.1
Hg	202	0.053034	ug/L			< 0.1
Ho	165		ug/L		97.42	
In	115		ug/L		94.492	
K	39	48600.57	ug/L			50000
Mg	24	47947.38	ug/L			50000
Mg	25	47563.77	ug/L			50000
Mn	55	0.176795	ug/L			< 5
Na	23	49141.84	ug/L			50000
Ni	60	1.368041	ug/L			1.3
Ni	62	0.857476	ug/L			< 1
P	31	53514.52	ug/L			50000
Pb	208	0.10004	ug/L			< 1
Sb	121	0.065631	ug/L			< 1
Sb	123	0.064661	ug/L			< 1
Sc	45		ug/L		99.766	
Se	82	-0.05464	mg/L			< 1
Tl	205	-0.01314	ug/L			< 1
V	51	1.93374	ug/L			< 5
Zn	64	4.200555	ug/L			< 5
Zn	66	0.873629	ug/L			< 5
Zn	68	0.457485	ug/L			< 5

Sample ID ICSAB
Sample Da Friday, September 07, 2012 19:42:22
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	9.259829	ug/L	92.60		10
Ag	109	9.139858	ug/L	91.40		10
Al	27	49653.87	ug/L	99.31		50000
As	75	9.559282	ug/L	95.59		10
Ba	137	10.07839	ug/L	100.78		10
Be	9	9.783013	ug/L	97.83		10
Ca	44	52736.65	ug/L	105.47		50000
Cd	111	9.746973	ug/L	97.47		10
Cd	114	9.865336	ug/L	98.65		10
Co	59	9.439641	ug/L	94.40		10
Cr	52	9.913251	ug/L	99.13		10
Cu	63	9.592441	ug/L	85.60		10
Cu	65	9.172727	ug/L	91.73		10
Fe	54	48439	ug/L	96.88		50000
Fe	56	48469.59	ug/L	96.94		50000
Fe	57	55542.26	ug/L	111.08		50000
Ge	72		ug/L		101.189	
Hg	200	1.008409	ug/L	100.84		1
Hg	202	1.015906	ug/L	101.59		1
Ho	165		ug/L		97.75	
In	115		ug/L		93.4	
K	39	48397.61	ug/L	96.80		50000
Mg	24	48459.95	ug/L	96.92		50000
Mg	25	46399.7	ug/L	92.80		50000
Mn	55	9.589027	ug/L	95.89		10
Na	23	48247.39	ug/L	96.49		50000
Ni	60	10.4397	ug/L	90.72		10
Ni	62	9.837015	ug/L	98.37		10
P	31	52772.57	ug/L	105.55		50000
Pb	208	9.532929	ug/L	95.33		10
Sb	121	10.23088	ug/L	102.31		10
Sb	123	10.12516	ug/L	101.25		10
Sc	45		ug/L		99.102	
Se	82	9.789298	mg/L	97.89		10
Tl	205	9.397685	ug/L	94.11		10
V	51	11.92832	ug/L	99.95		10
Zn	64	13.34159	ug/L	91.41		10
Zn	66	9.975645	ug/L	99.76		10
Zn	68	9.479099	ug/L	94.79		10

Sample ID: 113593.02
Sample Date/Time: Friday, September 07, 2012 21:05:52
Autosampler Position: 30
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02.49295

Ca/Mg/Na

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7286.921	ug/L	
Be	9	0.006856	6.000	ug/L	0.006
B	10	28.951775	2096.596	ug/L	1.641
B	11	30.550768	10997.091	ug/L	0.519
C	12		387361.822	ug/L	
Na	23	8886.087277	67983613.209	ug/L	45.788
Mg	24	2148.318138	11165408.898	ug/L	4.701
Mg	25	1854.901382	1380842.751	ug/L	52.571
Al	27	-0.193915	6836.591	ug/L	0.074
Si	28		3430008.112	ug/L	
P	31	42.564118	28875.392	ug/L	4.985
S	32		99583717.423	ug/L	
Cl	35		10853726.614	ug/L	
K	39	2198.426839	29012437.069	ug/L	80.772
Ca	44	3639.368117	1385014.680	ug/L	70.070
Sc	45		234347.135	ug/L	
Ti	47	0.341907	620.361	ug/L	0.000
Ti	48	3.470023	34384.505	ug/L	0.169
V	51	0.358062	42920.884	ug/L	0.004
ClO	51		43950.100	ug/L	
Cr	52	-0.022181	11326.299	ug/L	0.008
Cr	53	0.895992	13993.904	ug/L	0.089
Fe	54	1397.701081	1421274.484	ug/L	29.713
Mn	55	397.671301	7255703.941	ug/L	8.164
Fe	56	1459.441963	29062958.713	ug/L	76.894
Fe	57	1469.794706	547151.126	ug/L	85.681
Co	59	0.448039	6686.859	ug/L	0.018
Ni	60	1.250136	3617.089	ug/L	0.029
Ni	62	1.242484	571.690	ug/L	0.051
Cu	63	0.154522	1489.470	ug/L	0.011
Zn	64	1.045915	3885.529	ug/L	0.069
Cu	65	0.032389	241.006	ug/L	0.011
Zn	66	1.029214	2229.962	ug/L	0.050
Zn	68	1.532931	2257.970	ug/L	0.078
Ge	72		198476.619	ug/L	
As	75	1.635396	2811.747	ug/L	0.074
Se	74	47.877126	17951.331	mg/L	46.135
ArCl	77		1060.072	ug/L	
Br	79		51090.060	ug/L	

Br	81		80962.519	ug/L	
Y	89		527753.252	ug/L	
Mo	95	3.294506	14887.329	ug/L	0.016
Rh	103		459773.991	ug/L	
Ag	107	0.164535	4223.052	ug/L	0.085
Ag	109	0.160294	4004.279	ug/L	0.080
Cd	111	0.029426	177.003	ug/L	0.001
Cd	114	0.024458	381.012	ug/L	0.005
In	115		569300.145	ug/L	
Sb	121	0.039759	619.361	ug/L	0.002
Sb	123	0.040080	479.170	ug/L	0.001
Ba	137	16.693199	82722.841	ug/L	0.016
Ba	138	16.755793	535985.613	ug/L	0.194
Tb	159		645690.326	ug/L	
Ho	165		614202.223	ug/L	
Hg	200	0.002561	30.000	ug/L	0.000
Hg	202	0.000779	30.667	ug/L	0.004
Tl	205	0.007899	1561.484	ug/L	0.007
Pb	208	0.022344	1997.773	ug/L	0.008
Bi	209		485154.489	ug/L	
Se	77	0.028598	996.055	mg/L	0.175
Se	78	-0.862797	19176.270	mg/L	0.580
Se	82	0.487130	101.648	mg/L	0.128

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.932
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

96.701

97.848

98.711

Sample ID: 113593.04
Sample Date/Time: Friday, September 07, 2012 21:12:16
Autosampler Position: 31
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.04.49296

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6765.183	ug/L	
Be	9	0.017249	8.667	ug/L	0.004
B	10	33.051414	2348.994	ug/L	0.300
B	11	33.687311	11914.922	ug/L	0.087
C	12		387007.398	ug/L	
Na	23	13318.307965	100385551.630	ug/L	107.711
Mg	24	3174.290060	16255605.677	ug/L	51.358
Mg	25	2958.456774	2170847.566	ug/L	366.129
Al	27	0.648168	13474.764	ug/L	0.246
Si	28		3919211.058	ug/L	
P	31	37.183496	26126.804	ug/L	2.751
S	32		102001979.605	ug/L	
Cl	35		11681600.874	ug/L	
K	39	2397.784591	31108419.746	ug/L	4.715
Ca	44	3814.972610	1429598.834	ug/L	11.941
Sc	45		230918.675	ug/L	
Ti	47	0.354122	623.028	ug/L	0.003
Ti	48	3.878670	38081.441	ug/L	0.142
V	51	0.523467	44531.587	ug/L	0.037
ClO	51		45953.994	ug/L	
Cr	52	-0.001966	11388.068	ug/L	0.013
Cr	53	1.482205	14597.194	ug/L	0.291
Fe	54	1507.724315	1505642.774	ug/L	37.971
Mn	55	93.802098	1689172.162	ug/L	0.083
Fe	56	1573.859626	30579557.604	ug/L	1.388
Fe	57	1623.420716	594561.445	ug/L	6.777
Co	59	0.106923	2144.941	ug/L	0.001
Ni	60	1.128043	3224.271	ug/L	0.025
Ni	62	0.992007	460.350	ug/L	0.013
Cu	63	0.216324	1868.211	ug/L	0.011
Zn	64	0.793616	3073.065	ug/L	0.017
Cu	65	0.048239	287.341	ug/L	0.001
Zn	66	0.784748	1770.190	ug/L	0.013
Zn	68	1.176176	1786.860	ug/L	0.071
Ge	72		196313.110	ug/L	
As	75	1.044434	1683.912	ug/L	0.045
Se	74	65.660768	19649.436	mg/L	14.474
ArCl	77		1068.073	ug/L	
Br	79		137906.405	ug/L	

Br	81		173012.934	ug/L	
Y	89		520862.803	ug/L	
Mo	95	0.788432	3570.737	ug/L	0.025
Rh	103		459326.344	ug/L	
Ag	107	-0.023286	1847.547	ug/L	0.042
Ag	109	-0.026054	1739.190	ug/L	0.040
Cd	111	0.009182	114.002	ug/L	0.002
Cd	114	0.008180	264.673	ug/L	0.006
In	115		565986.247	ug/L	
Sb	121	0.032757	544.022	ug/L	0.002
Sb	123	0.033713	426.627	ug/L	0.003
Ba	137	12.480168	61497.922	ug/L	0.137
Ba	138	12.484512	397109.019	ug/L	0.213
Tb	159		644099.918	ug/L	
Ho	165		615025.617	ug/L	
Hg	200	-0.000488	23.667	ug/L	0.002
Hg	202	-0.001366	25.000	ug/L	0.001
Tl	205	-0.002823	1294.105	ug/L	0.003
Pb	208	0.051328	3019.893	ug/L	0.003
Bi	209		472399.164	ug/L	
Se	77	0.467105	1057.395	mg/L	0.607
Se	78	-0.756430	19226.522	mg/L	0.759
Se	82	1.617050	338.201	mg/L	0.117

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		101.426
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 95.647
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
⌜ Rh
| Ag
| Ag
| Cd
| Cd
> In 97.278
| Sb
| Sb
| Ba
| Ba
⌜ Tb
> Ho 98.843
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.06
Sample Date/Time: Friday, September 07, 2012 21:18:41
Autosampler Position: 32
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.06.49297

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6415.597	ug/L	
Be	9	0.001346	4.333	ug/L	0.005
B	10	44.336309	3066.548	ug/L	1.193
B	11	46.727504	16087.717	ug/L	0.146
C	12		415301.981	ug/L	
Na	23	18481.025176	136722127.858	ug/L	188.249
Mg	24	5082.520496	25546545.085	ug/L	133.984
Mg	25	5059.079408	3643943.511	ug/L	75.600
Al	27	-0.023457	7957.610	ug/L	0.004
Si	28		3252634.894	ug/L	
P	31	12.794865	15167.494	ug/L	0.664
S	32		103270968.671	ug/L	
Cl	35		11200659.191	ug/L	
K	39	2169.295300	27714620.753	ug/L	18.347
Ca	44	4798.037617	1757673.231	ug/L	8.292
Sc	45		226662.904	ug/L	
Ti	47	0.334833	593.359	ug/L	0.008
Ti	48	4.867734	47409.102	ug/L	0.361
V	51	0.558404	44176.205	ug/L	0.059
ClO	51		44942.618	ug/L	
Cr	52	0.055170	11806.092	ug/L	0.001
Cr	53	1.470190	14312.405	ug/L	0.272
Fe	54	1081.345106	1079305.548	ug/L	11.585
Mn	55	237.348263	4190923.167	ug/L	1.950
Fe	56	1110.182472	22361871.822	ug/L	34.076
Fe	57	1133.001712	411270.520	ug/L	28.199
Co	59	0.520018	7391.745	ug/L	0.007
Ni	60	2.426236	6723.553	ug/L	0.055
Ni	62	2.298070	980.396	ug/L	0.034
Cu	63	0.278129	2225.961	ug/L	0.007
Zn	64	0.313258	1599.108	ug/L	0.005
Cu	65	0.040815	259.340	ug/L	0.003
Zn	66	0.252382	822.045	ug/L	0.017
Zn	68	1.220241	1807.198	ug/L	0.010
Ge	72		198092.340	ug/L	
As	75	1.672480	2875.225	ug/L	0.002
Se	74	35.926159	16649.997	mg/L	32.136
ArCl	77		1062.073	ug/L	
Br	79		126146.035	ug/L	

Br	81		162406.235	ug/L	
Y	89		522096.995	ug/L	
Mo	95	2.568815	11599.511	ug/L	0.009
Rh	103		457926.242	ug/L	
Ag	107	-0.050259	1505.142	ug/L	0.024
Ag	109	-0.054407	1393.789	ug/L	0.021
Cd	111	0.022960	156.003	ug/L	0.005
Cd	114	0.020852	353.344	ug/L	0.006
In	115		564637.323	ug/L	
Sb	121	0.029750	512.353	ug/L	0.002
Sb	123	0.029055	389.031	ug/L	0.000
Ba	137	33.660554	165343.383	ug/L	0.600
Ba	138	33.413197	1059591.552	ug/L	0.615
Tb	159		642250.629	ug/L	
Ho	165		611325.012	ug/L	
Hg	200	-0.001744	21.000	ug/L	0.003
Hg	202	-0.000940	26.000	ug/L	0.002
Tl	205	-0.002650	1289.105	ug/L	0.005
Pb	208	0.031358	2302.138	ug/L	0.009
Bi	209		460243.074	ug/L	
Se	77	-0.219251	961.384	mg/L	0.256
Se	78	-0.443182	19374.510	mg/L	0.623
Se	82	1.411247	295.115	mg/L	0.108

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.557
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 96.514
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 97.046
Sb
Sb
Ba
Ba
Tb
> Ho 98.249
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.02 MS
Sample Date/Time: Friday, September 07, 2012 22:48:39
Autosampler Position: 42
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MS.49311

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6794.538	ug/L	
Be	9	997.585890	262365.078	ug/L	1.965
B	10	30.276569	2123.936	ug/L	0.341
B	11	30.229017	10556.565	ug/L	0.673
C	12		953059.610	ug/L	
Na	23	19633.826680	145611010.612	ug/L	453.644
Mg	24	13187.732127	66453536.551	ug/L	140.957
Mg	25	12736.877447	9196525.905	ug/L	240.988
Al	27	11044.855309	86874919.850	ug/L	360.806
Si	28		3465197.437	ug/L	
P	31	10820.593467	4670335.877	ug/L	134.512
S	32		107185680.223	ug/L	
Cl	35		12758791.461	ug/L	
K	39	13078.869723	162769591.933	ug/L	243.170
Ca	44	15702.069529	5703120.166	ug/L	218.997
Sc	45		227234.247	ug/L	
Ti	47	22.879796	21920.634	ug/L	0.775
Ti	48	12.767636	127904.571	ug/L	0.968
V	51	1082.633766	14459656.835	ug/L	4.409
ClO	51		14872301.532	ug/L	
Cr	52	1086.434994	11980417.064	ug/L	0.760
Cr	53	918.663972	1255749.005	ug/L	8.617
Fe	54	12197.891508	11500946.459	ug/L	57.527
Mn	55	1455.121787	25742985.086	ug/L	3.644
Fe	56	11930.045404	201495773.617	ug/L	12.178
Fe	57	13596.403680	4803486.204	ug/L	215.604
Co	59	1042.462356	13374774.551	ug/L	8.250
Ni	60	1012.334968	2782320.898	ug/L	4.558
Ni	62	943.802452	382927.577	ug/L	3.849
Cu	63	957.562407	6092606.214	ug/L	3.732
Zn	64	1007.515456	2980883.950	ug/L	5.302
Cu	65	961.660803	2950882.003	ug/L	3.707
Zn	66	919.637240	1586006.238	ug/L	7.800
Zn	68	924.668170	1120912.026	ug/L	12.629
Ge	72		194464.634	ug/L	
As	75	1006.373351	1850470.175	ug/L	6.330
Se	74	109.315144	24060.457	mg/L	24.933
ArCl	77		145953.459	ug/L	
Br	79		50348.920	ug/L	

Br	81		80991.318	ug/L	
Y	89		497473.470	ug/L	
Mo	95	1131.107405	4986685.530	ug/L	16.172
Rh	103		433116.129	ug/L	
Ag	107	871.312782	10326198.979	ug/L	40.262
Ag	109	872.846732	9938655.993	ug/L	88.938
Cd	111	1112.811494	3219265.338	ug/L	15.499
Cd	114	1100.851659	7293802.188	ug/L	0.907
In	115		534963.778	ug/L	
Sb	121	1126.250669	10906605.735	ug/L	10.840
Sb	123	1115.577509	8268247.083	ug/L	4.997
Ba	137	1129.777111	5257019.964	ug/L	3.097
Ba	138	1132.661688	34027307.505	ug/L	6.394
Tb	159		628117.656	ug/L	
Ho	165		591426.878	ug/L	
Hg	200	1.059297	2144.608	ug/L	0.013
Hg	202	1.057267	2771.784	ug/L	0.035
Tl	205	1126.677111	27398084.347	ug/L	0.358
Pb	208	1108.130788	37387923.131	ug/L	3.051
Bi	209		467363.240	ug/L	
Se	77	1028.511214	144865.101	mg/L	0.986
Se	78	976.434401	480883.185	mg/L	8.446
Se	82	961.790076	201354.524	mg/L	7.140

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.808
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 94.747
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.946
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 95.051
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.02 MSD
Sample Date/Time: Friday, September 07, 2012 22:55:05
Autosampler Position: 43
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02 MSD.49312

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6782.530	ug/L	
Be	9	983.169481	253594.904	ug/L	39.866
B	10	30.405590	2091.595	ug/L	1.372
B	11	30.276114	10371.016	ug/L	0.670
C	12		942816.358	ug/L	
Na	23	19893.027818	144748266.109	ug/L	8.012
Mg	24	13169.091997	65087812.454	ug/L	428.199
Mg	25	13101.733767	9278988.613	ug/L	395.811
Al	27	11044.325222	85231806.676	ug/L	8.152
Si	28		3411937.918	ug/L	
P	31	10956.375994	4638485.481	ug/L	276.724
S	32		108913580.430	ug/L	
Cl	35		12934879.805	ug/L	
K	39	13071.453110	159566892.324	ug/L	383.783
Ca	44	16296.428170	5805197.373	ug/L	312.880
Sc	45		222934.056	ug/L	
Ti	47	22.141921	20814.345	ug/L	0.698
Ti	48	12.176421	119545.126	ug/L	0.248
V	51	1092.732203	14316415.532	ug/L	15.901
ClO	51		14715698.468	ug/L	
Cr	52	1072.868771	11604183.393	ug/L	32.695
Cr	53	908.975851	1218716.140	ug/L	35.039
Fe	54	12001.113058	11101179.829	ug/L	142.980
Mn	55	1459.457296	25325180.540	ug/L	40.405
Fe	56	12074.236201	199964778.016	ug/L	441.034
Fe	57	13684.283325	4741746.459	ug/L	375.582
Co	59	1041.033237	13100903.024	ug/L	28.876
Ni	60	998.960070	2692972.045	ug/L	29.667
Ni	62	935.631909	372332.311	ug/L	30.560
Cu	63	960.827014	5996270.793	ug/L	28.520
Zn	64	1003.506624	2912277.796	ug/L	24.863
Cu	65	965.023118	2904462.646	ug/L	27.354
Zn	66	915.271502	1548268.884	ug/L	22.520
Zn	68	921.990516	1096317.345	ug/L	17.336
Ge	72		190723.890	ug/L	
As	75	1000.503944	1804252.551	ug/L	14.273
Se	74	134.283297	26153.463	mg/L	19.271
ArCl	77		142483.499	ug/L	
Br	79		49579.675	ug/L	

Br	81		79598.768	ug/L	
Y	89		489458.185	ug/L	
Mo	95	1128.840190	4881252.669	ug/L	1.276
Rh	103		424070.493	ug/L	
Ag	107	895.600073	10513626.755	ug/L	19.128
Ag	109	864.334294	9751733.884	ug/L	9.902
Cd	111	1106.405509	3171095.128	ug/L	3.845
Cd	114	1096.999060	7200570.319	ug/L	10.294
In	115		530006.314	ug/L	
Sb	121	1112.274266	10671266.397	ug/L	7.403
Sb	123	1106.593322	8125132.664	ug/L	15.838
Ba	137	1128.103068	5200529.428	ug/L	3.518
Ba	138	1117.214544	33251634.456	ug/L	6.106
Tb	159		618134.750	ug/L	
Ho	165		588909.888	ug/L	
Hg	200	1.059299	2135.272	ug/L	0.010
Hg	202	1.050471	2741.774	ug/L	0.013
Tl	205	1124.252806	27222302.616	ug/L	9.512
Pb	208	1093.160458	36725138.473	ug/L	17.664
Bi	209		452964.682	ug/L	
Se	77	1000.385118	140930.689	mg/L	9.158
Se	78	950.004872	468397.018	mg/L	11.946
Se	82	940.058629	196804.953	mg/L	6.242

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		97.919
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.924
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.094
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 94.646
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.01
Sample Date/Time: Friday, September 07, 2012 23:59:20
Autosampler Position: 49
Sample Description: AqTot 1:1 Min LR + Be Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.01.49322

rerun not needed

Cu/Mg/Pa

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6216.797	ug/L	
Be	9	0.004942	5.667	ug/L	0.002
B	10	93.923068	6885.342	ug/L	2.626
B	11	96.056839	35130.773	ug/L	3.315
C	12		526171.333	ug/L	
Na	23	32891.147496	261356028.765	ug/L	1403.268
Mg	24	10425.083358	56293111.003	ug/L	323.779
Mg	25	10492.304441	8116382.163	ug/L	577.540
Al	27	1.172943	18634.273	ug/L	0.043
Si	28		26616979.456	ug/L	
P	31	104.862128	58775.341	ug/L	6.590
S	32		104923048.776	ug/L	
Cl	35		12039590.308	ug/L	
K	39	9100.866728	121686118.805	ug/L	234.854
Ca	44	27378.249313	10633343.363	ug/L	940.963
Sc	45		243571.135	ug/L	
Ti	47	1.333973	1650.833	ug/L	0.023
Ti	48	18.525948	199885.741	ug/L	0.249
V	51	0.136697	41433.965	ug/L	0.101
ClO	51		42149.912	ug/L	
Cr	52	-0.041450	11543.757	ug/L	0.017
Cr	53	0.008576	13256.457	ug/L	0.177
Fe	54	18947.688856	19105659.362	ug/L	299.122
Mn	55	679.608711	12886529.558	ug/L	13.960
Fe	56	18632.168794	334785460.539	ug/L	549.031
Fe	57	20523.245679	7763046.784	ug/L	399.810
Co	59	0.654354	9790.702	ug/L	0.000
Ni	60	4.896996	14499.033	ug/L	0.173
Ni	62	4.560238	2036.582	ug/L	0.142
Cu	63	0.654456	4956.734	ug/L	0.026
Zn	64	3.227591	10957.007	ug/L	0.056
Cu	65	0.318068	1190.423	ug/L	0.004
Zn	66	3.155852	6247.542	ug/L	0.092
Zn	68	3.865149	5374.643	ug/L	0.233
Ge	72		190054.493	ug/L	
As	75	17.833792	31795.124	ug/L	0.506
Se	74	-36.783704	8549.690	mg/L	15.459
ArCl	77		1098.411	ug/L	
Br	79		73775.601	ug/L	

Br	81		104800.151	ug/L	
Y	89		484947.550	ug/L	
Mo	95	6.896497	29760.954	ug/L	0.351
Rh	103		413686.412	ug/L	
Ag	107	0.035411	2392.342	ug/L	0.022
Ag	109	0.034948	2289.980	ug/L	0.017
Cd	111	0.034881	177.670	ug/L	0.005
Cd	114	0.033331	406.680	ug/L	0.006
In	115		522595.662	ug/L	
Sb	121	0.046281	630.028	ug/L	0.002
Sb	123	0.050189	512.214	ug/L	0.007
Ba	137	23.373324	106213.953	ug/L	1.058
Ba	138	23.285937	683118.456	ug/L	1.067
Tb	159		612838.218	ug/L	
Ho	165		587463.942	ug/L	
Hg	200	-0.001961	19.667	ug/L	0.002
Hg	202	0.001532	31.334	ug/L	0.000
Tl	205	-0.007614	1121.415	ug/L	0.007
Pb	208	0.081432	3893.366	ug/L	0.002
Bi	209		465184.784	ug/L	
Se	77	0.619628	1078.731	mg/L	0.040
Se	78	-2.158250	18564.257	mg/L	0.328
Se	82	0.909029	189.974	mg/L	0.205

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.984
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 92.598
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 89.820
Sb
Sb
Ba
Ba
Tb
> Ho 94.414
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.03
Sample Date/Time: Saturday, September 08, 2012 00:05:47
Autosampler Position: 50
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.03.49323

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		8357.179	ug/L	
Be	9	0.038203	14.667	ug/L	0.006
B	10	131.948314	9382.267	ug/L	5.692
B	11	138.855744	49276.021	ug/L	4.662
C	12		608882.933	ug/L	
Na	23	41578.548544	321699124.372	ug/L	872.278
Mg	24	9909.599469	52101145.521	ug/L	139.614
Mg	25	9864.822209	7431117.625	ug/L	239.173
Al	27	1.212838	18477.294	ug/L	0.064
Si	28		16457072.403	ug/L	
P	31	210.507152	104689.856	ug/L	9.147
S	32		103873538.951	ug/L	
Cl	35		12580807.657	ug/L	
K	39	10268.714886	133533637.408	ug/L	293.365
Ca	44	17936.707260	6791217.100	ug/L	770.860
Sc	45		237121.299	ug/L	
Ti	47	1.258809	1532.478	ug/L	0.022
Ti	48	12.447839	130139.352	ug/L	0.757
V	51	0.254968	41991.182	ug/L	0.026
ClO	51		43072.565	ug/L	
Cr	52	0.006331	11787.336	ug/L	0.017
Cr	53	0.613996	13762.549	ug/L	0.029
Fe	54	6993.172993	6908668.035	ug/L	222.677
Mn	55	1836.191302	33888650.143	ug/L	43.413
Fe	56	6701.077319	119924886.418	ug/L	155.786
Fe	57	8021.555657	2961943.779	ug/L	214.374
Co	59	2.016531	27759.596	ug/L	0.058
Ni	60	5.665138	16323.810	ug/L	0.026
Ni	62	5.319398	2303.648	ug/L	0.221
Cu	63	0.549645	4131.981	ug/L	0.009
Zn	64	2.291756	7778.812	ug/L	0.034
Cu	65	0.097342	452.016	ug/L	0.008
Zn	66	2.179194	4326.406	ug/L	0.009
Zn	68	4.388144	5896.304	ug/L	0.024
Ge	72		189780.984	ug/L	
As	75	8.449445	14910.562	ug/L	0.305
Se	74	24.449433	14749.611	mg/L	31.046
ArCl	77		1094.410	ug/L	
Br	79		240691.635	ug/L	

Br	81		280913.314	ug/L	
Y	89		497618.977	ug/L	
Mo	95	15.999983	68897.479	ug/L	0.114
Rh	103		423852.659	ug/L	
Ag	107	-0.044513	1493.805	ug/L	0.008
Ag	109	-0.063263	1219.095	ug/L	0.019
Cd	111	0.047126	217.005	ug/L	0.004
Cd	114	0.041447	469.684	ug/L	0.004
In	115		533680.921	ug/L	
Sb	121	0.081952	988.397	ug/L	0.004
Sb	123	0.076993	722.225	ug/L	0.003
Ba	137	85.442179	396678.675	ug/L	0.123
Ba	138	90.205052	2703745.829	ug/L	0.056
Tb	159		627722.394	ug/L	
Ho	165		598747.528	ug/L	
Hg	200	0.030077	85.001	ug/L	0.006
Hg	202	0.018555	76.668	ug/L	0.004
Tl	205	0.016662	1738.850	ug/L	0.001
Pb	208	0.030800	2237.797	ug/L	0.003
Bi	209		437537.853	ug/L	
Se	77	0.428973	1052.061	mg/L	0.445
Se	78	-2.240599	18525.352	mg/L	0.137
Se	82	2.953392	617.970	mg/L	0.118

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.151
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.465
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.726
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 96.227
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.07
Sample Date/Time: Saturday, September 08, 2012 00:12:12
Autosampler Position: 51
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.07.49324

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5740.479	ug/L	
Be	9	0.007947	6.000	ug/L	0.015
B	10	152.330588	10323.629	ug/L	2.715
B	11	161.745685	54709.351	ug/L	2.604
C	12		626586.058	ug/L	
Na	23	35282.070670	260431192.802	ug/L	576.362
Mg	24	9795.353432	49134469.782	ug/L	75.075
Mg	25	9726.290541	6989317.083	ug/L	232.377
Al	27	18.287728	151286.845	ug/L	0.332
Si	28		13507053.815	ug/L	
P	31	97.296968	51369.895	ug/L	0.388
S	32		105226329.181	ug/L	
Cl	35		11564335.009	ug/L	
K	39	6410.230058	79923409.898	ug/L	126.221
Ca	44	34925.878565	12587446.127	ug/L	1501.021
Sc	45		226218.418	ug/L	
Ti	47	1.747829	1920.222	ug/L	0.188
Ti	48	25.213104	253444.283	ug/L	0.793
V	51	0.430779	42377.967	ug/L	0.096
ClO	51		43178.060	ug/L	
Cr	52	0.157211	12894.581	ug/L	0.049
Cr	53	0.484570	12953.686	ug/L	0.110
Fe	54	16031.335227	15021265.145	ug/L	378.676
Mn	55	1504.581845	26487285.336	ug/L	46.641
Fe	56	15698.485078	262651834.977	ug/L	151.208
Fe	57	18281.002751	6422497.439	ug/L	497.709
Co	59	0.947686	12831.179	ug/L	0.047
Ni	60	3.349426	9233.112	ug/L	0.089
Ni	62	2.642771	1117.413	ug/L	0.045
Cu	63	0.497050	3606.085	ug/L	0.024
Zn	64	11.608407	34841.527	ug/L	0.393
Cu	65	0.124174	513.353	ug/L	0.002
Zn	66	11.836433	20698.411	ug/L	0.221
Zn	68	12.467829	15367.131	ug/L	0.348
Ge	72		186692.612	ug/L	
As	75	9.644453	16778.937	ug/L	0.257
Se	74	16.979878	13755.044	mg/L	35.267
ArCl	77		1016.400	ug/L	
Br	79		167830.400	ug/L	

Br	81		202626.923	ug/L	
Y	89		490671.072	ug/L	
Mo	95	0.119716	565.690	ug/L	0.003
Rh	103		420261.856	ug/L	
Ag	107	-0.098075	844.048	ug/L	0.004
Ag	109	-0.101474	770.374	ug/L	0.004
Cd	111	0.010701	109.668	ug/L	0.009
Cd	114	0.015089	289.674	ug/L	0.005
In	115		523609.875	ug/L	
Sb	121	0.057041	733.370	ug/L	0.004
Sb	123	0.051231	521.791	ug/L	0.003
Ba	137	34.527974	157298.753	ug/L	0.475
Ba	138	34.169594	1004914.588	ug/L	0.820
Tb	159		611670.554	ug/L	
Ho	165		588667.705	ug/L	
Hg	200	-0.001450	20.667	ug/L	0.004
Hg	202	0.000329	28.334	ug/L	0.001
Tl	205	-0.009374	1077.742	ug/L	0.005
Pb	208	0.134707	5685.416	ug/L	0.009
Bi	209		441695.429	ug/L	
Se	77	0.571965	1072.063	mg/L	0.431
Se	78	-1.906975	18682.967	mg/L	0.837
Se	82	1.911923	399.934	mg/L	0.102

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.362
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 90.960
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.995
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 94.607
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.02
Sample Date/Time: Saturday, September 08, 2012 02:40:56
Autosampler Position: 66
Sample Description: AqTot/Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.02.49347

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		9625.096	ug/L	
Be	9	0.047590	17.334	ug/L	0.007
B	10	236.112317	16841.759	ug/L	7.749
B	11	253.306619	90218.354	ug/L	1.230
C	12		766289.086	ug/L	
Na	23	79186.968864	616823103.688	ug/L	2022.916
Mg	24	19105.291723	101119756.960	ug/L	647.253
Mg	25	18832.939727	14283538.766	ug/L	463.358
Al	27	3.947480	41187.202	ug/L	0.076
Si	28		31173640.378	ug/L	
P	31	407.355724	194450.141	ug/L	27.975
S	32		100477596.513	ug/L	
Cl	35		13986608.030	ug/L	
K	39	19784.717810	258154878.090	ug/L	17.430
Ca	44	34453.551889	13109478.553	ug/L	857.627
Sc	45		238702.657	ug/L	
Ti	47	2.565473	2841.139	ug/L	0.020
Ti	48	20.927753	221529.714	ug/L	0.093
V	51	0.347922	43577.309	ug/L	0.025
ClO	51		44556.717	ug/L	
Cr	52	0.074808	12660.877	ug/L	0.009
Cr	53	0.747109	14043.646	ug/L	0.067
Fe	54	13230.765477	13097506.055	ug/L	177.886
Mn	55	3517.720056	65366079.158	ug/L	43.108
Fe	56	13112.892670	232222715.723	ug/L	107.053
Fe	57	14754.683403	5474282.202	ug/L	104.818
Co	59	3.831854	52415.529	ug/L	0.048
Ni	60	10.659628	30850.232	ug/L	0.104
Ni	62	10.341405	4460.138	ug/L	0.000
Cu	63	0.994297	7130.533	ug/L	0.003
Zn	64	2.026844	7008.272	ug/L	0.031
Cu	65	0.157493	649.030	ug/L	0.012
Zn	66	1.738485	3557.065	ug/L	0.025
Zn	68	5.871419	7823.777	ug/L	0.077
Ge	72		177258.143	ug/L	
As	75	17.618822	29303.714	ug/L	0.176
Se	74	6.697855	12122.443	mg/L	25.202
ArCl	77		1232.096	ug/L	
Br	79		438529.780	ug/L	

Br	81		492075.871	ug/L	
Y	89		465262.065	ug/L	
Mo	95	32.933543	132402.545	ug/L	0.470
Rh	103		391426.564	ug/L	
Ag	107	0.070461	2651.747	ug/L	0.018
Ag	109	0.062047	2456.690	ug/L	0.019
Cd	111	0.184068	569.690	ug/L	0.006
Cd	114	0.157456	1149.751	ug/L	0.007
In	115		496450.694	ug/L	
Sb	121	0.179601	1796.529	ug/L	0.005
Sb	123	0.175143	1346.672	ug/L	0.003
Ba	137	173.386002	748623.973	ug/L	3.328
Ba	138	185.729580	5177510.367	ug/L	2.940
Tb	159		584877.714	ug/L	
Ho	165		561174.369	ug/L	
Hg	200	0.061326	139.002	ug/L	0.005
Hg	202	0.042036	129.669	ug/L	0.001
Tl	205	0.055744	2530.712	ug/L	0.008
Pb	208	0.013440	1541.399	ug/L	0.002
Bi	209		415567.547	ug/L	
Se	77	1.277394	1170.742	mg/L	0.458
Se	78	-2.789406	18266.078	mg/L	0.517
Se	82	5.039279	1054.660	mg/L	0.147

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.845
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 86.363
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 85.327
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.189
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.04
Sample Date/Time: Saturday, September 08, 2012 02:47:27
Autosampler Position: 67
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.04.49348

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6747.838	ug/L	
Be	9	0.036632	14.000	ug/L	0.017
B	10	240.326374	16740.904	ug/L	7.084
B	11	264.557940	92007.505	ug/L	3.529
C	12		769281.299	ug/L	
Na	23	S	S	ug/L	S
Mg	24	28677.655435	148238993.755	ug/L	997.005
Mg	25	27938.714884	20698924.375	ug/L	542.153
Al	27	5.463936	52469.597	ug/L	0.110
Si	28		35950175.140	ug/L	
P	31	356.235012	167363.105	ug/L	3.616
S	32		102141648.213	ug/L	
Cl	35		18978684.134	ug/L	
K	39	20395.813934	259887958.470	ug/L	2.928
Ca	44	34790.069770	12929488.847	ug/L	75.945
Sc	45		233132.901	ug/L	
Ti	47	2.643108	2849.809	ug/L	0.106
Ti	48	23.672674	244884.501	ug/L	2.545
V	51	1.161114	53677.930	ug/L	0.070
ClO	51		54779.484	ug/L	
Cr	52	0.158866	13314.052	ug/L	0.023
Cr	53	3.238261	17177.058	ug/L	0.256
Fe	54	14248.041496	13770836.136	ug/L	23.539
Mn	55	884.096295	16046646.565	ug/L	16.059
Fe	56	13784.221353	238193133.219	ug/L	236.622
Fe	57	16068.089011	5820888.682	ug/L	348.596
Co	59	0.826104	11631.219	ug/L	0.009
Ni	60	9.526947	26937.789	ug/L	0.008
Ni	62	8.964325	3782.825	ug/L	0.050
Cu	63	1.508200	10318.623	ug/L	0.001
Zn	64	1.297800	4632.182	ug/L	0.032
Cu	65	0.242697	902.387	ug/L	0.010
Zn	66	0.927126	2038.916	ug/L	0.014
Zn	68	4.120415	5464.363	ug/L	0.039
Ge	72		174743.468	ug/L	
As	75	11.166994	18225.868	ug/L	0.068
Se	74	-15.239029	9877.263	mg/L	7.436
ArCl	77		1456.131	ug/L	
Br	79		1229393.502	ug/L	

Br	81		1330961.323	ug/L	
Y	89		465032.109	ug/L	
Mo	95	7.370447	29254.622	ug/L	0.087
Rh	103		391213.859	ug/L	
Ag	107	0.151009	3554.064	ug/L	0.015
Ag	109	0.139150	3287.294	ug/L	0.008
Cd	111	0.083716	301.341	ug/L	0.008
Cd	114	0.077028	658.364	ug/L	0.006
In	115		498645.805	ug/L	
Sb	121	0.101654	1101.411	ug/L	0.003
Sb	123	0.097580	816.815	ug/L	0.005
Ba	137	127.818846	554413.769	ug/L	0.964
Ba	138	135.626859	3798055.914	ug/L	0.884
Tb	159		580681.731	ug/L	
Ho	165		553220.725	ug/L	
Hg	200	0.018920	57.667	ug/L	0.000
Hg	202	0.015396	63.001	ug/L	0.004
Tl	205	-0.011879	955.727	ug/L	0.005
Pb	208	0.048192	2615.500	ug/L	0.002
Bi	209		392011.178	ug/L	
Se	77	3.412795	1469.452	mg/L	0.108
Se	78	-2.558881	18374.985	mg/L	0.359
Se	82	13.832748	2895.610	mg/L	0.090

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.399
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 85.138
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 85.704
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 88.910
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.05
Sample Date/Time: Saturday, September 08, 2012 02:53:58
Autosampler Position: 68
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.05.49349

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5389.598	ug/L	
Be	9	0.134724	39.000	ug/L	0.022
B	10	26.099132	1819.867	ug/L	1.652
B	11	27.412443	9493.717	ug/L	0.885
C	12		553360.607	ug/L	
Na	23	12258.419430	89869219.019	ug/L	191.014
Mg	24	5747.619007	28627707.737	ug/L	81.807
Mg	25	5753.881219	4106317.685	ug/L	149.431
Al	27	14.120161	117837.201	ug/L	0.309
Si	28		25185035.476	ug/L	
P	31	143.464909	70663.952	ug/L	0.684
S	32		103789737.786	ug/L	
Cl	35		11325380.537	ug/L	
K	39	1845.476619	23505031.290	ug/L	13.313
Ca	44	15785.342797	5667558.186	ug/L	112.465
Sc	45		224617.197	ug/L	
Ti	47	2.078886	2217.960	ug/L	0.133
Ti	48	12.061854	119232.588	ug/L	1.564
V	51	0.726276	45984.467	ug/L	0.036
ClO	51		47124.630	ug/L	
Cr	52	0.588651	17509.660	ug/L	0.008
Cr	53	1.589542	14342.449	ug/L	0.012
Fe	54	15752.585689	14659872.400	ug/L	351.058
Mn	55	2330.247230	40746800.142	ug/L	16.639
Fe	56	15752.963211	261702524.635	ug/L	184.732
Fe	57	18223.153384	6359342.669	ug/L	14.642
Co	59	1.160099	15441.257	ug/L	0.018
Ni	60	4.186211	11442.979	ug/L	0.102
Ni	62	3.937693	1629.162	ug/L	0.064
Cu	63	12.121384	76682.147	ug/L	0.149
Zn	64	25.892611	76369.841	ug/L	0.470
Cu	65	12.005607	36541.999	ug/L	0.279
Zn	66	26.277054	45164.364	ug/L	0.423
Zn	68	26.066814	31551.974	ug/L	0.344
Ge	72		182098.220	ug/L	
As	75	0.575345	753.088	ug/L	0.034
Se	74	-23.335098	9497.644	mg/L	0.895
ArCl	77		933.057	ug/L	
Br	79		54729.244	ug/L	

Br	81		82975.565	ug/L	
Y	89		473197.788	ug/L	
Mo	95	1.554735	6474.369	ug/L	0.041
Rh	103		410664.924	ug/L	
Ag	107	0.121995	3299.632	ug/L	0.004
Ag	109	0.116561	3109.563	ug/L	0.002
Cd	111	0.169436	543.355	ug/L	0.001
Cd	114	0.174609	1287.104	ug/L	0.009
In	115		508746.420	ug/L	
Sb	121	0.077589	901.720	ug/L	0.004
Sb	123	0.077061	688.730	ug/L	0.004
Ba	137	6.124529	27153.430	ug/L	0.121
Ba	138	6.135141	175551.362	ug/L	0.135
Tb	159		602858.280	ug/L	
Ho	165		571940.129	ug/L	
Hg	200	0.011230	44.667	ug/L	0.002
Hg	202	0.002942	34.000	ug/L	0.001
Tl	205	0.016567	1656.835	ug/L	0.007
Pb	208	1.115815	37529.476	ug/L	0.026
Bi	209		425185.240	ug/L	
Se	77	-0.457568	928.047	mg/L	0.108
Se	78	-2.698046	18309.239	mg/L	0.065
Se	82	0.839216	175.358	mg/L	0.045

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		98.658
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 88.721
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 87.440
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 91.919
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.06
Sample Date/Time: Saturday, September 08, 2012 03:00:29
Autosampler Position: 69
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.06.49350

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6543.689	ug/L	
Be	9	0.006308	5.667	ug/L	0.009
B	10	327.823866	22247.751	ug/L	9.631
B	11	360.653823	122213.176	ug/L	13.225
C	12		966824.853	ug/L	
Na	23	S	S	ug/L	S
Mg	24	44372.850175	223757567.890	ug/L	1070.637
Mg	25	43568.087846	31483600.179	ug/L	286.579
Al	27	3.695360	37243.394	ug/L	0.398
Si	28		29602484.576	ug/L	
P	31	116.428154	59889.258	ug/L	1.485
S	32		104488080.825	ug/L	
Cl	35		17060098.330	ug/L	
K	39	18710.228693	232615612.831	ug/L	521.523
Ca	44	43667.767454	15822527.527	ug/L	970.546
Sc	45		227420.245	ug/L	
Ti	47	1.988705	2160.945	ug/L	0.001
Ti	48	26.930019	272238.233	ug/L	1.733
V	51	1.282622	53982.386	ug/L	0.060
ClO	51		54699.668	ug/L	
Cr	52	0.253156	14027.736	ug/L	0.016
Cr	53	2.945731	16360.213	ug/L	0.287
Fe	54	9850.822710	9309065.469	ug/L	83.872
Mn	55	2037.057634	36065309.474	ug/L	12.191
Fe	56	9685.501698	164481977.235	ug/L	15.341
Fe	57	11517.228151	4074078.410	ug/L	38.924
Co	59	4.388269	57079.878	ug/L	0.082
Ni	60	19.942307	54922.290	ug/L	0.312
Ni	62	19.453194	7948.887	ug/L	0.041
Cu	63	2.056820	13558.906	ug/L	0.006
Zn	64	1.914967	6345.719	ug/L	0.033
Cu	65	0.332582	1156.085	ug/L	0.006
Zn	66	1.335439	2693.426	ug/L	0.025
Zn	68	9.567124	11935.950	ug/L	0.115
Ge	72		171643.918	ug/L	
As	75	17.938470	28892.645	ug/L	0.231
Se	74	-14.259435	9780.162	mg/L	54.299
ArCl	77		1493.804	ug/L	
Br	79		1099915.327	ug/L	

Br	81		1183475.478	ug/L	
Y	89		464212.465	ug/L	
Mo	95	26.272860	102292.319	ug/L	0.321
Rh	103		386911.115	ug/L	
Ag	107	0.042822	2324.654	ug/L	0.008
Ag	109	0.034687	2146.275	ug/L	0.009
Cd	111	0.086096	303.341	ug/L	0.004
Cd	114	0.086338	705.368	ug/L	0.001
In	115		491241.072	ug/L	
Sb	121	0.162229	1623.495	ug/L	0.003
Sb	123	0.157107	1209.900	ug/L	0.003
Ba	137	347.373347	1484355.462	ug/L	2.166
Ba	138	369.721922	10200474.725	ug/L	7.128
Tb	159		584662.590	ug/L	
Ho	165		550817.037	ug/L	
Hg	200	0.014070	48.334	ug/L	0.001
Hg	202	0.008837	47.001	ug/L	0.001
Tl	205	-0.015793	862.716	ug/L	0.006
Pb	208	0.034159	2163.453	ug/L	0.002
Bi	209		392168.570	ug/L	
Se	77	3.126802	1429.446	mg/L	0.836
Se	78	-2.733526	18292.477	mg/L	0.496
Se	82	12.883868	2696.958	mg/L	0.221

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.890
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 83.628
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 84.431
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 88.524
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.08
Sample Date/Time: Saturday, September 08, 2012 03:07:00
Autosampler Position: 70
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.08.49351

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		4882.645	ug/L	
Be	9	-0.004152	3.333	ug/L	0.003
B	10	99.543211	7828.448	ug/L	0.004
B	11	104.978664	41183.505	ug/L	1.537
C	12		578383.204	ug/L	
Na	23	13370.556076	114075084.665	ug/L	333.242
Mg	24	7061.347875	40933103.479	ug/L	70.071
Mg	25	6995.387692	5810845.952	ug/L	33.073
Al	27	3.179763	38163.788	ug/L	0.109
Si	28		65189650.920	ug/L	
P	31	151.193080	86064.051	ug/L	2.774
S	32		100437691.197	ug/L	
Cl	35		10441400.625	ug/L	
K	39	12944.529603	185332569.509	ug/L	186.061
Ca	44	35826.348242	14928371.057	ug/L	77.249
Sc	45		261405.100	ug/L	
Ti	47	3.043401	3631.428	ug/L	0.012
Ti	48	21.507671	249419.566	ug/L	1.054
V	51	0.303395	47034.842	ug/L	0.063
ClO	51		48639.261	ug/L	
Cr	52	0.434750	18425.854	ug/L	0.013
Cr	53	-0.193164	13914.781	ug/L	0.189
Fe	54	39604.773720	42778060.575	ug/L	481.609
Mn	55	995.720380	20265200.335	ug/L	5.042
Fe	56	39317.024945	753221914.763	ug/L	235.434
Fe	57	45291.610605	18371260.603	ug/L	231.361
Co	59	4.246855	63525.485	ug/L	0.059
Ni	60	34.563114	109359.940	ug/L	0.046
Ni	62	34.188262	16012.917	ug/L	0.226
Cu	63	0.201540	2006.575	ug/L	0.004
Zn	64	13.555293	46901.691	ug/L	0.259
Cu	65	0.112979	553.689	ug/L	0.009
Zn	66	13.445484	27114.313	ug/L	0.181
Zn	68	14.075043	20004.519	ug/L	0.048
Ge	72		184097.393	ug/L	
As	75	221.254203	384931.359	ug/L	3.010
Se	74	-117.211336	290.400	mg/L	27.964
ArCl	77		928.723	ug/L	
Br	79		84188.152	ug/L	

Br	81		112743.550	ug/L	
Y	89		468663.536	ug/L	
Mo	95	0.480545	2063.922	ug/L	0.009
Rh	103		399164.840	ug/L	
Ag	107	0.048707	2455.690	ug/L	0.002
Ag	109	0.046304	2330.989	ug/L	0.007
Cd	111	0.018546	127.335	ug/L	0.001
Cd	114	0.015761	283.674	ug/L	0.001
In	115		504966.569	ug/L	
Sb	121	0.045122	598.359	ug/L	0.002
Sb	123	0.046119	467.169	ug/L	0.004
Ba	137	15.520578	68216.671	ug/L	0.292
Ba	138	15.428800	437751.407	ug/L	0.371
Tb	159		591696.114	ug/L	
Ho	165		557300.774	ug/L	
Hg	200	-0.000915	20.667	ug/L	0.002
Hg	202	0.000147	26.334	ug/L	0.003
Tl	205	-0.011042	983.730	ug/L	0.004
Pb	208	6.015682	192356.394	ug/L	0.034
Bi	209		423822.363	ug/L	
Se	77	-0.962795	857.374	mg/L	0.256
Se	78	-3.266123	18040.862	mg/L	0.192
Se	82	1.022478	213.725	mg/L	0.000

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		114.817
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 89.695
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 86.790
Sb
Sb
Ba
Ba
Tb
> Ho 89.566
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.09
Sample Date/Time: Saturday, September 08, 2012 03:13:31
Autosampler Position: 71
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.09.49352

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5164.133	ug/L	
Be	9	0.001180	4.333	ug/L	0.002
B	10	25.324617	1801.530	ug/L	0.102
B	11	27.721818	9776.352	ug/L	0.395
C	12		598770.950	ug/L	
Na	23	14612.973244	109124107.690	ug/L	49.811
Mg	24	3307.883962	16784099.650	ug/L	53.687
Mg	25	3283.552644	2387158.034	ug/L	26.623
Al	27	5.651004	52972.560	ug/L	0.145
Si	28		26980998.756	ug/L	
P	31	3.382403	11224.731	ug/L	1.972
S	32		99982770.588	ug/L	
Cl	35		10894036.755	ug/L	
K	39	1815.314480	23564464.420	ug/L	7.704
Ca	44	12618.635748	4619818.806	ug/L	311.751
Sc	45		228787.170	ug/L	
Ti	47	1.469213	1679.172	ug/L	0.011
Ti	48	8.860049	88772.911	ug/L	0.988
V	51	0.319786	41389.767	ug/L	0.034
ClO	51		42460.694	ug/L	
Cr	52	0.266221	14258.395	ug/L	0.018
Cr	53	0.730872	13439.398	ug/L	0.218
Fe	54	5610.454654	5363690.279	ug/L	153.594
Mn	55	1632.661597	29081244.900	ug/L	8.746
Fe	56	5337.865293	93018453.091	ug/L	42.292
Fe	57	5513.574781	1968927.741	ug/L	67.289
Co	59	2.980220	39239.227	ug/L	0.019
Ni	60	2.139242	5992.368	ug/L	0.033
Ni	62	2.004851	869.717	ug/L	0.067
Cu	63	0.616442	4414.450	ug/L	0.023
Zn	64	2.258689	7407.993	ug/L	0.001
Cu	65	0.492949	1658.501	ug/L	0.005
Zn	66	1.984676	3836.848	ug/L	0.000
Zn	68	2.299141	3140.574	ug/L	0.009
Ge	72		180316.089	ug/L	
As	75	0.722152	996.206	ug/L	0.081
Se	74	5.279203	12173.214	mg/L	32.490
ArCl	77		945.392	ug/L	
Br	79		47327.581	ug/L	

Br	81		76636.686	ug/L	
Y	89		507280.071	ug/L	
Mo	95	0.055452	283.674	ug/L	0.008
Rh	103		408890.800	ug/L	
Ag	107	0.028616	2267.972	ug/L	0.004
Ag	109	0.025465	2142.274	ug/L	0.002
Cd	111	0.022363	140.002	ug/L	0.001
Cd	114	0.030752	383.679	ug/L	0.005
In	115		513298.630	ug/L	
Sb	121	0.027007	440.015	ug/L	0.003
Sb	123	0.025783	330.416	ug/L	0.001
Ba	137	4.115721	18431.517	ug/L	0.003
Ba	138	4.113359	118870.927	ug/L	0.013
Tb	159		604874.234	ug/L	
Ho	165		574561.097	ug/L	
Hg	200	-0.000025	23.000	ug/L	0.002
Hg	202	-0.001366	23.334	ug/L	0.000
Tl	205	0.006666	1431.461	ug/L	0.006
Pb	208	0.005782	1326.719	ug/L	0.003
Bi	209		417217.848	ug/L	
Se	77	-0.209719	962.718	mg/L	0.297
Se	78	-1.586543	18834.349	mg/L	0.640
Se	82	0.659292	137.691	mg/L	0.032

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		100.490
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 87.853
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 88.222
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.340
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.10
Sample Date/Time: Saturday, September 08, 2012 03:20:02
Autosampler Position: 72
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.10.49353

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5102.765	ug/L	
Be	9	0.046455	16.667	ug/L	0.014
B	10	26.490929	1920.222	ug/L	0.953
B	11	29.210865	10497.496	ug/L	0.304
C	12		567961.265	ug/L	
Na	23	17544.068915	133745005.730	ug/L	364.376
Mg	24	8221.247432	42579696.286	ug/L	123.442
Mg	25	8125.141758	6030148.543	ug/L	13.766
Al	27	13.156204	114751.357	ug/L	0.339
Si	28		31261257.042	ug/L	
P	31	17.939357	17906.074	ug/L	0.355
S	32		101399409.325	ug/L	
Cl	35		11088321.525	ug/L	
K	39	2538.009201	33246468.730	ug/L	23.539
Ca	44	15152.065078	5657531.078	ug/L	120.788
Sc	45		233555.448	ug/L	
Ti	47	1.720652	1958.564	ug/L	0.048
Ti	48	10.040038	102919.608	ug/L	0.482
V	51	0.131845	39677.461	ug/L	0.007
ClO	51		40570.733	ug/L	
Cr	52	0.058724	12205.107	ug/L	0.013
Cr	53	0.128693	12880.581	ug/L	0.138
Fe	54	45663.233627	44058794.616	ug/L	362.273
Mn	55	301.648550	5487395.087	ug/L	0.771
Fe	56	45020.886009	770011678.071	ug/L	209.863
Fe	57	50955.552640	18465248.008	ug/L	66.629
Co	59	0.130728	2483.364	ug/L	0.001
Ni	60	0.858774	2500.369	ug/L	0.013
Ni	62	0.553253	282.674	ug/L	0.016
Cu	63	3.095065	20714.113	ug/L	0.002
Zn	64	7.951013	24868.831	ug/L	0.020
Cu	65	2.930201	9379.597	ug/L	0.014
Zn	66	7.830985	14277.011	ug/L	0.036
Zn	68	8.138021	10478.474	ug/L	0.064
Ge	72		188028.610	ug/L	
As	75	0.397656	462.417	ug/L	0.022
Se	74	-96.479646	2391.257	mg/L	8.798
ArCl	77		922.723	ug/L	
Br	79		23789.058	ug/L	

Br	81		51657.584	ug/L	
Y	89		469483.275	ug/L	
Mo	95	0.308292	1373.784	ug/L	0.001
Rh	103		405947.039	ug/L	
Ag	107	0.019090	2176.949	ug/L	0.009
Ag	109	0.022133	2123.269	ug/L	0.003
Cd	111	0.026809	153.670	ug/L	0.002
Cd	114	0.031990	394.679	ug/L	0.004
In	115		517590.818	ug/L	
Sb	121	0.042147	585.691	ug/L	0.002
Sb	123	0.045574	475.048	ug/L	0.001
Ba	137	5.529729	24945.433	ug/L	0.183
Ba	138	5.478532	159525.955	ug/L	0.092
Tb	159		588115.364	ug/L	
Ho	165		558152.629	ug/L	
Hg	200	0.002068	26.334	ug/L	0.000
Hg	202	0.000943	28.334	ug/L	0.001
Tl	205	-0.004364	1138.083	ug/L	0.004
Pb	208	0.192329	7228.537	ug/L	0.007
Bi	209		442164.870	ug/L	
Se	77	-0.305044	949.383	mg/L	0.566
Se	78	-1.901740	18685.440	mg/L	0.784
Se	82	0.494593	103.210	mg/L	0.045

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.584
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 91.611
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 88.960
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 89.703
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113593.11
Sample Date/Time: Saturday, September 08, 2012 03:26:34
Autosampler Position: 73
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.11.49354

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5041.402	ug/L	
Be	9	-0.000907	3.333	ug/L	0.004
B	10	2.851437	240.006	ug/L	0.136
B	11	2.889951	1175.421	ug/L	0.290
C	12		557395.474	ug/L	
Na	23	375.612038	2488049.753	ug/L	0.626
Mg	24	14.919583	67234.417	ug/L	0.024
Mg	25	14.923948	9642.742	ug/L	0.092
Al	27	13.466353	101210.350	ug/L	0.011
Si	28		1853303.393	ug/L	
P	31	2.237907	9459.233	ug/L	2.801
S	32		99316351.802	ug/L	
Cl	35		10104766.720	ug/L	
K	39	10.027226	946497.890	ug/L	0.965
Ca	44	166.689205	78199.353	ug/L	3.223
Sc	45		201598.849	ug/L	
Ti	47	0.090483	322.676	ug/L	0.005
Ti	48	0.185197	-81.806	ug/L	0.013
V	51	0.528674	38939.613	ug/L	0.020
ClO	51		39926.550	ug/L	
Cr	52	0.044076	10392.853	ug/L	0.021
Cr	53	1.251247	12467.003	ug/L	0.159
Fe	54	6.409931	66133.527	ug/L	0.431
Mn	55	-0.011152	2431.683	ug/L	0.000
Fe	56	3.188943	3633569.679	ug/L	1.693
Fe	57	-2.692595	10794.171	ug/L	3.006
Co	59	0.002766	687.033	ug/L	0.001
Ni	60	0.045791	176.003	ug/L	0.001
Ni	62	0.078175	73.001	ug/L	0.000
Cu	63	0.025100	551.689	ug/L	0.001
Zn	64	0.763173	2602.852	ug/L	0.014
Cu	65	0.034205	212.671	ug/L	0.002
Zn	66	0.785167	1546.147	ug/L	0.014
Zn	68	0.874919	1236.096	ug/L	0.004
Ge	72		179610.269	ug/L	
As	75	-0.078891	-367.723	ug/L	0.111
Se	74	29.992539	14530.956	mg/L	19.484
ArCl	77		829.713	ug/L	
Br	79		5893.635	ug/L	

Br	81		31866.742	ug/L	
Y	89		475718.426	ug/L	
Mo	95	0.031381	184.670	ug/L	0.002
Rh	103		422350.321	ug/L	
Ag	107	0.017682	2145.275	ug/L	0.011
Ag	109	0.017768	2060.254	ug/L	0.006
Cd	111	-0.001836	73.001	ug/L	0.003
Cd	114	-0.002053	175.670	ug/L	0.005
In	115		513950.613	ug/L	
Sb	121	0.012309	303.675	ug/L	0.002
Sb	123	0.010825	224.248	ug/L	0.001
Ba	137	0.193795	922.389	ug/L	0.005
Ba	138	0.193944	5899.861	ug/L	0.003
Tb	159		606736.303	ug/L	
Ho	165		577557.691	ug/L	
Hg	200	-0.002150	19.000	ug/L	0.001
Hg	202	-0.001286	23.667	ug/L	0.004
Tl	205	-0.005816	1143.417	ug/L	0.007
Pb	208	0.002738	1234.045	ug/L	0.003
Bi	209		420102.174	ug/L	
Se	77	-1.363159	801.369	mg/L	0.822
Se	78	-1.896608	18687.865	mg/L	0.023
Se	82	0.188583	39.146	mg/L	0.167

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		88.548
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 87.509
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 88.334
Sb
Sb
Ba
Ba
Tb
> Ho 92.822
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113593.12
Sample Date/Time: Saturday, September 08, 2012 03:33:06
Autosampler Position: 74
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12.49355

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5153.461	ug/L	
Be	9	-0.002003	3.000	ug/L	0.006
B	10	2.085638	190.004	ug/L	0.121
B	11	2.608821	1068.073	ug/L	0.022
C	12		533049.303	ug/L	
Na	23	405.966698	2629849.084	ug/L	9.279
Mg	24	19.717727	86777.506	ug/L	0.304
Mg	25	19.954526	12586.636	ug/L	0.885
Al	27	15.641896	113893.664	ug/L	0.135
Si	28		1887058.826	ug/L	
P	31	3.778002	9822.974	ug/L	2.706
S	32		98119192.306	ug/L	
Cl	35		10388201.348	ug/L	
K	39	17.139945	1002632.833	ug/L	0.608
Ca	44	193.437140	84916.538	ug/L	2.634
Sc	45		197281.782	ug/L	
Ti	47	0.121963	341.677	ug/L	0.009
Ti	48	0.236762	374.577	ug/L	0.006
V	51	0.679804	39846.209	ug/L	0.096
ClO	51		40494.067	ug/L	
Cr	52	0.379903	13380.521	ug/L	0.021
Cr	53	1.899089	12958.360	ug/L	0.321
Fe	54	20.663458	76305.801	ug/L	1.696
Mn	55	0.570288	11308.142	ug/L	0.010
Fe	56	26.697953	3893146.726	ug/L	5.703
Fe	57	11.465941	14890.360	ug/L	3.450
Co	59	0.009755	750.038	ug/L	0.002
Ni	60	0.358995	919.389	ug/L	0.012
Ni	62	0.414724	190.004	ug/L	0.015
Cu	63	0.151566	1238.097	ug/L	0.009
Zn	64	1.008626	3177.466	ug/L	0.008
Cu	65	0.154886	529.687	ug/L	0.006
Zn	66	1.015583	1857.875	ug/L	0.000
Zn	68	1.110081	1456.798	ug/L	0.040
Ge	72		176878.825	ug/L	
As	75	-0.056922	-325.378	ug/L	0.009
Se	74	10.579057	12458.763	mg/L	13.137
ArCl	77		840.047	ug/L	
Br	79		4491.157	ug/L	

Br	81		32812.450	ug/L	
Y	89		460509.180	ug/L	
Mo	95	0.084036	393.012	ug/L	0.006
Rh	103		411631.671	ug/L	
Ag	107	0.001282	1922.556	ug/L	0.001
Ag	109	0.000232	1833.203	ug/L	0.004
Cd	111	0.000031	76.668	ug/L	0.002
Cd	114	-0.003568	162.670	ug/L	0.002
In	115		504189.188	ug/L	
Sb	121	0.012508	300.008	ug/L	0.002
Sb	123	0.010599	218.375	ug/L	0.003
Ba	137	0.210253	977.062	ug/L	0.006
Ba	138	0.203087	6046.875	ug/L	0.002
Tb	159		577836.840	ug/L	
Ho	165		557182.242	ug/L	
Hg	200	0.000315	23.000	ug/L	0.003
Hg	202	0.001241	29.000	ug/L	0.000
Tl	205	-0.006049	1097.411	ug/L	0.006
Pb	208	0.017743	1667.077	ug/L	0.004
Bi	209		407480.738	ug/L	
Se	77	-0.886535	868.041	mg/L	0.094
Se	78	-1.196861	19018.448	mg/L	0.582
Se	82	0.080957	16.614	mg/L	0.183

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		86.652
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 86.178
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 86.657
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 89.547
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113593.12 MS
Sample Date/Time: Saturday, September 08, 2012 07:26:44
Autosampler Position: 98
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12 MS.49391

Ca Mg Na

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5358.913	ug/L	
Be	9	912.100887	210206.253	ug/L	40.656
B	10	5.211715	376.345	ug/L	0.713
B	11	5.200800	1841.872	ug/L	0.806
C	12		1040765.114	ug/L	
Na	23	12041.218438	78241776.064	ug/L	706.531
Mg	24	11611.743705	51262050.253	ug/L	658.291
Mg	25	11663.462617	7379150.983	ug/L	581.442
Al	27	11568.896483	79717248.762	ug/L	709.622
Si	28		1767328.629	ug/L	
P	31	11561.734529	4370644.143	ug/L	746.055
S	32		103789737.786	ug/L	
Cl	35		12178843.523	ug/L	
K	39	11241.175649	122711147.343	ug/L	511.897
Ca	44	12432.409595	3964257.686	ug/L	228.882
Sc	45		199304.116	ug/L	
Ti	47	25.851272	21666.006	ug/L	1.429
Ti	48	10.854025	94797.487	ug/L	1.638
V	51	1125.043373	13170152.640	ug/L	33.036
ClO	51		13416413.714	ug/L	
Cr	52	1103.853622	10671001.016	ug/L	26.376
Cr	53	954.815040	1143235.899	ug/L	43.816
Fe	54	11380.185141	9404469.935	ug/L	631.859
Mn	55	1102.146044	17087332.974	ug/L	47.420
Fe	56	11038.391661	163658310.909	ug/L	429.148
Fe	57	12911.349698	4000273.721	ug/L	155.515
Co	59	1078.680995	12130578.302	ug/L	34.885
Ni	60	1034.152599	2490826.601	ug/L	43.275
Ni	62	974.607339	346599.258	ug/L	31.045
Cu	63	1003.678523	5597829.850	ug/L	28.965
Zn	64	1047.575227	2716305.205	ug/L	40.650
Cu	65	997.686592	2683046.557	ug/L	37.700
Zn	66	946.628410	1430832.799	ug/L	33.299
Zn	68	953.141158	1012505.937	ug/L	40.101
Ge	72		175413.764	ug/L	
As	75	1004.910968	1666316.883	ug/L	27.551
Se	74	148.798983	25404.067	mg/L	28.493
ArCl	77		133232.523	ug/L	
Br	79		9769.344	ug/L	

Br	81		37011.901	ug/L	
Y	89		455486.024	ug/L	
Mo	95	1112.931924	4425668.084	ug/L	13.732
Rh	103		388357.925	ug/L	
Ag	107	410.185782	4416666.874	ug/L	10.837
Ag	109	395.812233	4096536.281	ug/L	1.349
Cd	111	1091.646914	2869216.185	ug/L	6.722
Cd	114	1083.223271	6520257.920	ug/L	12.633
In	115		486042.114	ug/L	
Sb	121	1103.224444	9706352.057	ug/L	9.112
Sb	123	1095.156975	7374287.214	ug/L	10.754
Ba	137	1111.947779	4700527.200	ug/L	17.174
Ba	138	1099.014346	29994954.011	ug/L	17.036
Tb	159		574293.754	ug/L	
Ho	165		547031.111	ug/L	
Hg	200	1.055919	1977.235	ug/L	0.006
Hg	202	1.030453	2498.702	ug/L	0.025
Tl	205	1115.907612	25099107.840	ug/L	3.433
Pb	208	1082.455034	33780078.409	ug/L	10.258
Bi	209		410726.833	ug/L	
Se	77	925.844140	130503.542	mg/L	17.940
Se	78	902.151432	445789.500	mg/L	5.574
Se	82	875.518988	183293.304	mg/L	10.238

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		87.540
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	85.465
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	83.538
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	87.916
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113593.12 MSD
Sample Date/Time: Saturday, September 08, 2012 07:33:16
Autosampler Position: 99
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113593.12 MSD.49392

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5493.659	ug/L	
Be	9	905.046723	212752.250	ug/L	26.299
B	10	3.015476	251.673	ug/L	0.229
B	11	2.766138	1147.084	ug/L	0.125
C	12		1051196.292	ug/L	
Na	23	11804.675308	78294063.609	ug/L	162.221
Mg	24	11335.775504	51075974.733	ug/L	100.571
Mg	25	11300.105234	7294333.800	ug/L	120.952
Al	27	11565.365741	81326599.337	ug/L	159.353
Si	28		1764210.322	ug/L	
P	31	11236.673889	4336061.940	ug/L	34.854
S	32		101239788.059	ug/L	
Cl	35		12187499.462	ug/L	
K	39	11457.306769	127572828.882	ug/L	191.269
Ca	44	12330.358124	4009161.692	ug/L	120.079
Sc	45		203162.789	ug/L	
Ti	47	24.378219	20857.777	ug/L	0.809
Ti	48	10.859119	97008.267	ug/L	0.294
V	51	1111.934325	13275865.278	ug/L	9.945
ClO	51		13488385.004	ug/L	
Cr	52	1090.007948	10746225.051	ug/L	3.009
Cr	53	925.067827	1130301.966	ug/L	12.924
Fe	54	10742.990037	9063934.568	ug/L	67.246
Mn	55	1082.372676	17119133.028	ug/L	10.297
Fe	56	10699.222620	161880680.758	ug/L	396.009
Fe	57	12569.478124	3971079.536	ug/L	15.555
Co	59	1061.389635	12173743.564	ug/L	13.546
Ni	60	1026.102427	2521205.807	ug/L	9.660
Ni	62	965.977832	350325.293	ug/L	23.895
Cu	63	998.767575	5680321.031	ug/L	23.792
Zn	64	1044.832117	2763452.509	ug/L	14.757
Cu	65	988.691737	2712225.542	ug/L	7.435
Zn	66	936.930619	1444291.363	ug/L	22.798
Zn	68	941.862068	1020530.231	ug/L	23.199
Ge	72		172718.898	ug/L	
As	75	1014.566503	1656642.563	ug/L	16.455
Se	74	128.380897	23113.282	mg/L	26.911
ArCl	77		134551.811	ug/L	
Br	79		6153.483	ug/L	

Br	81		31832.634	ug/L	
Y	89		451084.945	ug/L	
Mo	95	1135.269443	4445524.180	ug/L	2.721
Rh	103		387975.296	ug/L	
Ag	107	375.710328	4031138.538	ug/L	15.211
Ag	109	370.368469	3818620.860	ug/L	8.541
Cd	111	1107.439497	2899214.651	ug/L	9.282
Cd	114	1097.221530	6578815.397	ug/L	2.622
In	115		484126.533	ug/L	
Sb	121	1118.141272	9798842.672	ug/L	8.596
Sb	123	1106.306789	7420084.898	ug/L	8.515
Ba	137	1120.685330	4719298.900	ug/L	4.825
Ba	138	1115.917546	30337162.731	ug/L	10.925
Tb	159		566244.584	ug/L	
Ho	165		533379.940	ug/L	
Hg	200	1.079902	1971.233	ug/L	0.029
Hg	202	1.075271	2541.381	ug/L	0.010
Tl	205	1149.263747	25204555.978	ug/L	5.939
Pb	208	1122.563894	34158761.072	ug/L	17.649
Bi	209		417966.256	ug/L	
Se	77	952.544492	134238.514	mg/L	4.884
Se	78	893.677354	441786.070	mg/L	2.584
Se	82	873.879613	182950.094	mg/L	3.759

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		89.235
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 84.152
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 83.208
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 85.722
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Eastern Analytical Inc.
Aqueous Digestion Logbook

Page:_____

466

BatSamNum	Prep Date	Digestion Batch ID	Reagent/Chem Inv.			Temp. °C	Analyst	Notes
BLANK	8/29/12	A	44354.5	41628.2	43174.1	83.5	ds	
LCS			71356.1	43821.4	43816.1			
LCS Ag			43818.1					
113593.01								
113593.02								
113593.02 MS			71356.1	43821.4	43816.1			
113593.02 MSD			"	"	"			
113593.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								
.12								
113577.01								
.02								
.04								
.05								

+2.3°c

8/29/12
ds

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, September 06, 2012 15:45:21
Sample Description:
Method File: C:\Elandata\Method\EPA200 DAILY.mth
Dataset File: C:\Elandata\Dataset\daily performance\Sample.029
Tuning File: C:\Elandata\Tuning\EPA.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

1.84×10^{-5}

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	39798.1	39798.107	527.012	1.3
	Rh	102.9	314721.5	314721.527	1918.541	0.6
	In	114.9	413951.8	413951.842	3746.708	0.9
	Pb	208.0	207882.3	207882.267	1907.977	0.9
>	Ba	137.9	378714.2	378714.204	2767.907	0.7
	Ba++	69.0	3935.0	0.010	0.000	1.8
>	Ce	139.9	445766.0	445766.038	3687.699	0.8
	CeO	155.9	11731.5	0.026	0.000	1.7
	Bkgd	220.0	5.0	5.001	1.732	34.6

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
8.25	Lens Voltage
1100.00	ICP RF Power
-1947.00	Analog Stage Voltage
1273.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-5.50	AC Rod Offset

713612

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	16	6.3	3370.6
Co	59	16	7.0	140948.8
In	115	16	8.3	443496.3

713602

Instrument Tuning Report

File Name: EPA.tun
File Path: C:\elandata\Tuning\EPA.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	607	2087	0.571	
Mg	23.985	23.979	5735	2024	0.579	
Rh	102.905	102.879	25060	1900	0.638	
Ce	139.905	139.929	34046	1961	0.652	
Pb	207.977	207.977	50455	2247	0.632	

Eastern Analytical, Inc.

professional laboratory & drilling services

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook , NH 03229

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 113653
Client Identification: Coakley Landfill | P2081
Date Received: 8/30/2012

Dear Mr. McKibben :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw

Lorraine Olashaw, Lab Director	9.17.12	591
	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Temperature upon receipt (°C): 3 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
113653.01	GW-MW-4-0812	8/30/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113653.02	GW-MW-9-0812	8/30/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113653.03	GW-MW-11-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.04	GW-OP-5-0812	8/30/12	8/28/12	aqueous		Adheres to Sample Acceptance Policy
113653.05	GW-AE-2A-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.06	GW-AE-3A-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.07	GW-AE-3B-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.08	GW-AE-3B-DUP-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.09	GW-AE-4A-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.1	GW-AE-4B-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.11	GW-FPC-2A-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.12	GW-FPC-2B-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.13	GW-FPC-4B-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.14	GW-FPC-5A-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.15	GW-FPC-5B-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.16	GW-FPC-6A-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.17	GW-FPC-6B-0812	8/30/12	8/29/12	aqueous		Adheres to Sample Acceptance Policy
113653.18	LC-L-1-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.19	LC-L-1-DUP-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.2	GW-AE-3B-FB-0812	8/30/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113653.21	Trip Blank 8260	8/30/12	7/20/12	aqueous		Adheres to Sample Acceptance Policy
113653.22	Trip Blank 1,4 Diox.	8/30/12	8/9/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983

2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998

3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB

4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-11-0812	GW-AE-2A -0812	GW-AE-3A -0812	GW-AE-3B -0812	GW-AE-3B-DUP-0812	GW-AE-4A -0812	GW-AE-4B -0812
Lab Sample ID:	113653.03	113653.05	113653.06	113653.07	113653.08	113653.09	113653.1
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/29/12	8/30/12	8/30/12	8/30/12	8/30/12	8/29/12	8/29/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	**6**	< 5	**7**	**8**	**8**	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Diethyl Ether	**13**	< 5	**10**	**12**	**12**	< 5	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	**10**	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	**2**	< 1	**1**	1	**2**	< 1	< 1
1,2-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	< 2	< 2	**6**	**5**	**6**	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-11-0812	GW-AE-2A -0812	GW-AE-3A -0812	GW-AE-3B -0812	GW-AE-3B-DUP-0812	GW-AE-4A -0812	GW-AE-4B -0812
Lab Sample ID:	113653.03	113653.05	113653.06	113653.07	113653.08	113653.09	113653.1
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/29/12	8/30/12	8/30/12	8/30/12	8/30/12	8/29/12	8/29/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
mp-Xylene	**2**	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	**1**	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	**96 %R**	**95 %R**	**96 %R**	**95 %R**	**96 %R**	**94 %R**	**94 %R**
1,2-Dichlorobenzene-d4 (surr)	**100 %R**	**103 %R**	**103 %R**	**102 %R**	**102 %R**	**103 %R**	**102 %R**
Toluene-d8 (surr)	**99 %R**	**101 %R**	**100 %R**	**99 %R**	**100 %R**	**99 %R**	**100 %R**

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-FPC-2A-0812	GW-FPC-2B-0812	GW-FPC-4B-0812	GW-FPC-6A-0812	GW-FPC-6B-0812	LC-L-1-0812	GW-AE-3B-FB-0812
Lab Sample ID:	113653.11	113653.12	113653.13	113653.16	113653.17	113653.18	113653.2
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12	8/30/12	8/30/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/5/12
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	**6**	**6**	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Diethyl Ether	< 5	< 5	< 5	**12**	**13**	**10**	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	< 1	< 1	< 1	**1**	**2**	**2**	< 1
1,2-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	< 2	< 2	< 2	**4**	**4**	**15**	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-FPC-2A-0812	GW-FPC-2B-0812	GW-FPC-4B-0812	GW-FPC-6A-0812	GW-FPC-6B-0812	LC-L-1-0812	GW-AE-3B-FB-0812
Lab Sample ID:	113653.11	113653.12	113653.13	113653.16	113653.17	113653.18	113653.2
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/29/12	8/29/12	8/29/12	8/29/12	8/29/12	8/30/12	8/30/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/5/12
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
mp-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1	< 1	1	< 1
Bromobenzene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	1	1	2	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	94 %R	93 %R	92 %R	95 %R	95 %R	96 %R	94 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	103 %R	103 %R	103 %R	104 %R	103 %R	101 %R
Toluene-d8 (surr)	100 %R	100 %R	99 %R	99 %R	99 %R	99 %R	100 %R

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	Trip Blank 8260
Lab Sample ID:	113653.21
Matrix:	aqueous
Date Sampled:	7/20/12
Date Received:	8/30/12
Units:	ug/l
Date of Analysis:	9/5/12
Analyst:	BAM
Method:	8260B
Dilution Factor:	1

Dichlorodifluoromethane	< 5
Chloromethane	< 2
Vinyl chloride	< 2
Bromomethane	< 2
Chloroethane	< 5
Trichlorofluoromethane	< 5
Diethyl Ether	< 5
Acetone	< 10
1,1-Dichloroethene	< 1
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 5
Carbon disulfide	< 5
Methyl-t-butyl ether(MTBE)	< 5
Ethyl-t-butyl ether(ETBE)	< 5
Isopropyl ether(DIPE)	< 5
tert-amyl methyl ether(TAME)	< 5
trans-1,2-Dichloroethene	< 2
1,1-Dichloroethane	< 2
2,2-Dichloropropane	< 2
cis-1,2-Dichloroethene	< 2
2-Butanone(MEK)	< 10
Bromochloromethane	< 2
Tetrahydrofuran(THF)	< 10
Chloroform	< 2
1,1,1-Trichloroethane	< 2
Carbon tetrachloride	< 2
1,1-Dichloropropene	< 2
Benzene	< 1
1,2-Dichloroethane	< 2
Trichloroethene	< 2
1,2-Dichloropropane	< 2
Dibromomethane	< 2
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 2
Toluene	< 1
trans-1,3-Dichloropropene	< 2
1,1,2-Trichloroethane	< 2
2-Hexanone	< 10
Tetrachloroethene	< 2
1,3-Dichloropropane	< 2
Dibromochloromethane	< 2
1,2-Dibromoethane(EDB)	< 2
Chlorobenzene	< 2
1,1,1,2-Tetrachloroethane	< 2
Ethylbenzene	< 1

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID: Trip Blank 8260

Lab Sample ID:	113653.21
Matrix:	aqueous
Date Sampled:	7/20/12
Date Received:	8/30/12
Units:	ug/l
Date of Analysis:	9/5/12
Analyst:	BAM
Method:	8260B
Dilution Factor:	1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 2
1,1,2,2-Tetrachloroethane	< 2
1,2,3-Trichloropropane	< 2
n-Propylbenzene	< 1
2-Chlorotoluene	< 2
4-Chlorotoluene	< 2
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 5
1,2,3-Trichlorobenzene	< 1
4-Bromofluorobenzene (surr)	**93 %R**
1,2-Dichlorobenzene-d4 (surr)	**104 %R**
Toluene-d8 (surr)	**100 %R**

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	12 (60 %R)	12 (62 %R) (3 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Chloromethane	< 2	14 (71 %R)	14 (71 %R) (0 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	15 (74 %R)	15 (76 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromomethane	< 2	15 (74 %R)	16 (80 %R) (8 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Chloroethane	< 5	17 (86 %R)	17 (87 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	16 (82 %R)	17 (84 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	17 (85 %R)	17 (86 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Acetone	< 10	20 (91 %R)	20 (88 %R) (3 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	16 (81 %R)	17 (83 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	< 30	80 (77 %R)	80 (78 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	18 (91 %R)	18 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	16 (82 %R)	17 (85 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	16 (79 %R)	16 (81 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	< 5	17 (84 %R)	17 (85 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	< 5	17 (84 %R)	17 (86 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	< 5	17 (83 %R)	17 (84 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	18 (89 %R)	18 (92 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	18 (90 %R)	18 (92 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	* 14 (68 %R)	14 (71 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	19 (96 %R)	20 (99 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (82 %R)	20 (81 %R) (1 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	18 (92 %R)	19 (93 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (87 %R)	20 (85 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Chloroform	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	16 (82 %R)	17 (85 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	16 (80 %R)	17 (83 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	18 (88 %R)	18 (90 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Benzene	< 1	19 (96 %R)	19 (97 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	17 (86 %R)	17 (86 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	18 (88 %R)	18 (90 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	18 (92 %R)	19 (93 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 0.5	18 (89 %R)	18 (90 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	< 50	< 50 (123 %R)	< 50 (118 %R) (4 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (87 %R)	20 (86 %R) (1 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 2	18 (88 %R)	18 (90 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Toluene	< 1	19 (93 %R)	19 (95 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 2	17 (84 %R)	17 (84 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	19 (96 %R)	19 (96 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (85 %R)	20 (84 %R) (1 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	21 (103 %R)	21 (106 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	18 (92 %R)	18 (92 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	17 (84 %R)	17 (85 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 2	19 (93 %R)	19 (93 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	19 (93 %R)	19 (94 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	19 (96 %R)	20 (98 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	39 (97 %R)	39 (98 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
o-Xylene	< 1	19 (93 %R)	19 (95 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Styrene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromoform	< 2	18 (89 %R)	18 (89 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	19 (94 %R)	19 (93 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	18 (89 %R)	18 (88 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	18 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	18 (88 %R)	18 (89 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	18 (88 %R)	18 (91 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	18 (88 %R)	18 (91 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	18 (90 %R)	19 (93 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	17 (86 %R)	18 (90 %R) (5 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	18 (90 %R)	19 (94 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	18 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	19 (93 %R)	19 (97 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	19 (93 %R)	19 (96 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	18 (92 %R)	19 (93 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	18 (89 %R)	19 (93 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 2	20 (99 %R)	20 (99 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	< 1	18 (88 %R)	18 (92 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	18 (92 %R)	19 (96 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 0.5	16 (80 %R)	17 (87 %R) (8 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Naphthalene	< 5	18 (88 %R)	18 (91 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	18 (90 %R)	19 (94 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	96 %R	100 %R	99 %R	9/4/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	101 %R	100 %R	101 %R	9/4/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	100 %R	100 %R	99 %R	9/4/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	113653.07	< 5	14 (70 %R)	14 (72 %R) (3 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Chloromethane	113653.07	< 2	16 (78 %R)	16 (79 %R) (1 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	113653.07	< 2	17 (84 %R)	17 (87 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromomethane	113653.07	< 2	16 (80 %R)	18 (88 %R) (10 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Chloroethane	113653.07	8	27 (94 %R)	28 (100 %R) (6 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	113653.07	< 5	19 (94 %R)	19 (97 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	113653.07	12	29 (85 %R)	30 (90 %R) (6 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Acetone	113653.07	< 10	20 (78 %R)	20 (94 %R) (19 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	113653.07	< 1	18 (88 %R)	18 (89 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	113653.07	< 30	80 (75 %R)	80 (74 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Methylene chloride	113653.07	< 5	18 (91 %R)	19 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	113653.07	< 5	18 (89 %R)	18 (90 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	113653.07	< 5	16 (79 %R)	16 (81 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	113653.07	< 5	17 (84 %R)	17 (86 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	113653.07	< 5	17 (85 %R)	17 (87 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	113653.07	< 5	17 (83 %R)	17 (85 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	113653.07	< 2	19 (96 %R)	19 (97 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	113653.07	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	113653.07	< 2	16 (82 %R)	17 (83 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	113653.07	< 2	20 (101 %R)	20 (99 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	113653.07	< 10	20 (77 %R)	20 (82 %R) (6 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	113653.07	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	113653.07	< 10	20 (84 %R)	20 (88 %R) (5 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Chloroform	113653.07	< 2	19 (93 %R)	19 (95 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	113653.07	< 2	18 (89 %R)	18 (90 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	113653.07	< 2	18 (88 %R)	18 (89 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	113653.07	< 2	19 (96 %R)	19 (96 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Benzene	113653.07	1	21 (100 %R)	22 (101 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	113653.07	< 2	17 (85 %R)	17 (86 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Trichloroethene	113653.07	< 2	19 (93 %R)	19 (93 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	113653.07	< 2	19 (93 %R)	19 (94 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Dibromomethane	113653.07	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	113653.07	< 0.5	18 (90 %R)	18 (91 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	113653.07	< 50	< 50 (135 %R)	< 50 (153 %R) (13	9/4/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	113653.07	< 10	20 (82 %R)	20 (87 %R) (6 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	113653.07	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Toluene	113653.07	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	113653.07	< 2	17 (85 %R)	17 (86 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	113653.07	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Hexanone	113653.07	< 10	20 (80 %R)	20 (83 %R) (4 RPD)	9/4/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	113653.07	< 2	22 (109 %R)	21 (107 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	113653.07	< 2	18 (91 %R)	18 (91 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	113653.07	< 2	17 (84 %R)	17 (84 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	113653.07	< 2	18 (90 %R)	18 (91 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	113653.07	5	25 (97 %R)	25 (97 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	113653.07	< 2	19 (95 %R)	19 (96 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	113653.07	< 1	20 (101 %R)	20 (101 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
mp-Xylene	113653.07	< 1	40 (101 %R)	41 (101 %R) (0 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
o-Xylene	113653.07	< 1	19 (96 %R)	20 (98 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Styrene	113653.07	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromoform	113653.07	< 2	17 (87 %R)	18 (88 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	113653.07	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Bromobenzene	113653.07	< 2	18 (91 %R)	19 (93 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	113653.07	< 2	18 (92 %R)	19 (95 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	113653.07	< 2	17 (85 %R)	17 (86 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	113653.07	< 1	20 (98 %R)	20 (99 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	113653.07	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	113653.07	< 2	18 (92 %R)	19 (93 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	113653.07	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	113653.07	< 1	19 (95 %R)	19 (97 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	113653.07	< 1	18 (91 %R)	19 (94 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	113653.07	< 1	19 (97 %R)	20 (99 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	113653.07	< 1	19 (89 %R)	19 (92 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	113653.07	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	113653.07	< 1	20 (95 %R)	20 (98 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	113653.07	< 1	19 (92 %R)	19 (94 %R) (2 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	113653.07	< 1	20 (97 %R)	20 (100 %R) (3 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	113653.07	< 2	19 (96 %R)	20 (100 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	113653.07	< 1	18 (92 %R)	19 (96 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	113653.07	< 1	19 (94 %R)	20 (99 %R) (5 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	113653.07	< 0.5	18 (89 %R)	19 (94 %R) (5 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
Naphthalene	113653.07	< 5	18 (87 %R)	18 (92 %R) (6 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	113653.07	< 1	18 (91 %R)	19 (95 %R) (4 RPD)	9/4/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	113653.07	95 %R	101 %R	100 %R	9/4/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4	113653.07	102 %R	100 %R	100 %R	9/4/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	113653.07	99 %R	100 %R	99 %R	9/4/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	14 (69 %R)	14 (70 %R) (1 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Chloromethane	< 2	16 (78 %R)	16 (78 %R) (0 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	17 (84 %R)	17 (83 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromomethane	< 2	16 (79 %R)	17 (85 %R) (7 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Chloroethane	< 5	19 (96 %R)	20 (98 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	17 (87 %R)	18 (88 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Acetone	< 10	20 (94 %R)	20 (92 %R) (2 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	17 (86 %R)	18 (88 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	< 30	80 (75 %R)	80 (79 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	17 (85 %R)	18 (88 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	16 (82 %R)	16 (82 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	< 5	17 (85 %R)	17 (86 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	< 5	17 (86 %R)	17 (87 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	< 5	17 (85 %R)	17 (85 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	19 (93 %R)	19 (96 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	19 (93 %R)	19 (95 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	15 (73 %R)	15 (75 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	20 (101 %R)	20 (101 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (85 %R)	20 (85 %R) (0 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	19 (95 %R)	19 (95 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (86 %R)	20 (86 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Chloroform	< 2	19 (94 %R)	19 (96 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	17 (86 %R)	18 (89 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	17 (84 %R)	18 (88 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Benzene	< 1	20 (100 %R)	20 (101 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	18 (88 %R)	18 (88 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	18 (91 %R)	19 (95 %R) (4 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 0.5	18 (92 %R)	19 (93 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	< 50	< 50 (122 %R)	< 50 (126 %R) (3 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (90 %R)	20 (91 %R) (1 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 2	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Toluene	< 1	19 (95 %R)	19 (97 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 2	17 (84 %R)	17 (86 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (85 %R)	20 (88 %R) (3 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	21 (105 %R)	22 (110 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	17 (85 %R)	17 (86 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 2	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	19 (96 %R)	19 (97 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	40 (101 %R)	40 (101 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
o-Xylene	< 1	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Styrene	< 1	20 (102 %R)	20 (102 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromoform	< 2	18 (90 %R)	18 (91 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	< 1	21 (106 %R)	21 (107 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	19 (95 %R)	19 (94 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	18 (88 %R)	18 (88 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	19 (95 %R)	19 (97 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	18 (89 %R)	18 (91 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	18 (90 %R)	18 (91 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	19 (94 %R)	19 (96 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	19 (97 %R)	20 (99 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	19 (96 %R)	19 (97 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 2	20 (98 %R)	20 (99 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	< 1	18 (90 %R)	18 (92 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	19 (93 %R)	19 (96 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 0.5	17 (84 %R)	17 (86 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Naphthalene	< 5	18 (89 %R)	18 (90 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	95 %R	102 %R	100 %R	9/5/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	102 %R	99 %R	99 %R	9/5/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	99 %R	99 %R	100 %R	9/5/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-4-0812	GW-MW-9 -0812	GW-MW-11 -0812	GW-AE-2A -0812	GW-AE-3A -0812	GW-AE-3B -0812	GW-AE-3B-DUP-0812
Lab Sample ID:	113653.01	113653.02	113653.03	113653.05	113653.06	113653.07	113653.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/28/12	8/28/12	8/29/12	8/30/12	8/30/12	8/30/12	8/30/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/3/12	8/31/12	8/31/12	8/31/12	8/31/12	8/31/12	8/31/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	5	10	5	5	5	5
1,4-Dioxane	**2.5**	**30**	**56**	**16**	**24**	**27**	**24**
4-Bromofluorobenzene (surr)	**96 %R**	**82 %R**	**85 %R**	**97 %R**	**100 %R**	**88 %R**	**80 %R**
Toluene-d8 (surr)	**96 %R**	**88 %R**	**90 %R**	**94 %R**	**98 %R**	**96 %R**	**91 %R**

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-4A-0812	GW-AE-4B-0812	GW-FPC-4B-0812	GW-FPC-5A-0812	GW-FPC-5B-0812	GW-FPC-6A-0812	GW-FPC-6B-0812
Lab Sample ID:	113653.09	113653.1	113653.13	113653.14	113653.15	113653.16	113653.17
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/29/12	8/29/12	8/29/12	8/30/12	8/30/12	8/29/12	8/29/12
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/3/12	9/3/12	9/3/12	9/3/12	9/3/12	9/3/12	9/3/12
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	10	10	10	5
1,4-Dioxane	< 0.25	< 0.25	< 0.25	**25**	**53**	**31**	**23**
4-Bromofluorobenzene (surr)	**101 %R**	**81 %R**	**97 %R**	**84 %R**	**82 %R**	**92 %R**	**85 %R**
Toluene-d8 (surr)	**110 %R**	**108 %R**	**84 %R**	**89 %R**	**87 %R**	**109 %R**	**100 %R**

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	LC-L-1-0812	GW-AE-3B-FB-0812	Trip Blank 1,4 Diox.
Lab Sample ID:	113653.18	113653.2	113653.22
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/30/12	8/9/12
Date Received:	8/30/12	8/30/12	8/30/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	9/3/12	9/2/12	9/3/12
Analyst:	VG	VG	VG
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	10	1	1
1,4-Dioxane	**28**	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**89 %R**	**88 %R**	**93 %R**
Toluene-d8 (surr)	**91 %R**	**90 %R**	**94 %R**

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.2 (105 %R)	5.2 (103 %R) (2 RPD)	ug/l	8/31/12	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	83 %R	81 %R	91 %R	% Rec	8/31/12	70 - 130	50	8260B
Toluene-d8 (surr)	95 %R	99 %R	90 %R	% Rec	8/31/12	70 - 130	50	8260B

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
1,4-Dioxane	113653.07	27	52 (98 %R)	54 (107 %R) (9 RPD)	ug/l	8/31/12	70-130	20	8260B
4-Bromofluorobenzene	113653.07	95 %R	90 %R	84 %R	%	8/31/12		50	8260B
Toluene-d8 (surr)	113653.07	99 %R	88 %R	100 %R	%	8/31/12		50	8260B

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	4.8 (95 %R)	5.1 (102 %R) (7 RPD)	9/2/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	93 %R	84 %R	87 %R	9/2/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	105 %R	100 %R	104 %R	9/2/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	5.9 (118 %R)	5.0 (100 %R) (17 RPD)	9/3/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	103 %R	88 %R	102 %R	9/3/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	98 %R	97 %R	85 %R	9/3/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below .

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	LC-L-1-0812	LC-L-1-DUP -0812
Lab Sample ID:	113653.18	113653.19
Matrix:	aqueous	aqueous
Date Sampled:	8/30/12	8/30/12
Date Received:	8/30/12	8/30/12
Ammonia-N	**24**	**24**
COD	**44**	**44**

	Analysis			
Units	**Date**	**Time**	**Method**	**Analyst**
mg/L	9/11/12	10:13	4500NH3D	LAS
mg/L	9/04/12	13:20	H8000	SCW

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Ammonia-N	< 0.05	2.1 (104 %R)	2.2 (108 %R) (4 RPD)	mg/L	9/11/12	90 - 110	20	4500NH3
COD	< 10	95 (95 %R)	98 (98 %R) (3 RPD)	mg/L	9/4/12	85 - 115	20	H8000

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Ammonia-N	113653.18	24	25 (80 %R)	26 (115 %R) (36 RPD)	mg/L	9/11/12	80-120	20	4500NH3
COD		NA	NA	NA	mg/L	9/4/12		20	H8000

Ammonia: The RPD associated with sample 1136653.18 was outside of the acceptance criteria however recoveries of the MS/MSD were within the acceptance criteria. This may be attributed to the high sample concentration in relation to the spike concentration. There is no impact to the data.

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-4-0812	GW-MW-9 -0812	GW-OP-5 -0812	GW-AE-2A -0812					
Lab Sample ID:	113653.01	113653.02	113653.04	113653.05					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/28/12	8/28/12	8/28/12	8/30/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12					
Iron	**18**	**44**	**15**	**16**	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**1.0**	**1.3**	**3.2**	**0.79**	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	**0.14**	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.080**	**0.14**	**0.030**	**0.24**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.052**	**0.14**	**0.018**	**0.028**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**60**	**82**	**12**	**28**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	**0.001**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	**0.002**	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.003**	**0.011**	**0.018**	**0.010**	AqTot	mg/L	9/6/12	200.8	DS
Iron	**20**	**46**	**17**	**16**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**16**	**27**	**2.5**	**9.2**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**1.2**	**1.4**	**3.7**	**0.82**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.006**	**0.014**	**0.026**	**0.008**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**25**	**20**	**2.2**	**15**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	**0.005**	< 0.001	**0.002**	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**20**	**71**	**10**	**33**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	**0.008**	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-3A-0812	GW-AE-3B-0812	GW-AE-3B-DUP-0812	GW-AE-4A-0812					
Lab Sample ID:	113653.06	113653.07	113653.08	113653.09					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/30/12	8/30/12	8/30/12	8/29/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12					
Iron	**20**	**13**	**14**	**1.6**	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**1.1**	**1.4**	**1.4**	**0.38**	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	< 0.05	< 0.05	< 0.05	**0.11**	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.11**	**0.088**	**0.086**	**0.001**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.066**	**0.13**	**0.13**	**0.012**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**48**	**49**	**46**	**6.9**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.003**	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**22**	**15**	**15**	**4.0**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**20**	**21**	**20**	**5.4**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**1.2**	**1.5**	**1.5**	**0.42**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.007**	**0.006**	**0.006**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**20**	**19**	**18**	**2.4**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	**0.002**	**0.003**	**0.003**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**63**	**74**	**72**	**8**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-4B-0812	GW-FPC-2A -0812	GW-FPC-2B -0812	GW-FPC-4B -0812					
Lab Sample ID:	113653.1	113653.11	113653.12	113653.13					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/29/12	8/29/12	8/29/12	8/29/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12					
Iron	**0.09**	**2.9**	< 0.05	< 0.05	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**0.009**	**0.59**	**0.013**	< 0.005	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	**0.07**	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	< 0.001	**0.002**	**0.002**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.007**	**0.013**	**0.009**	**0.005**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**7.5**	**18**	**6.5**	**4.4**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	**0.002**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**0.08**	**4.7**	< 0.05	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**4.9**	**9.3**	**0.67**	**2.3**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.013**	**0.63**	**0.015**	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**3.6**	**4.3**	**4.2**	**1.8**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**16**	**12**	**35**	**6**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-FPC-6A-0812	GW-FPC-6B -0812	GW-AE-3B-FB -0812	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Lab Sample ID:	113653.16	113653.17	113653.2					
Matrix:	aqueous	aqueous	aqueous					
Date Sampled:	8/29/12	8/29/12	8/30/12					
Date Received:	8/30/12	8/30/12	8/30/12					
Iron	**4.2**	**6.9**	< 0.05	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**3.6**	**0.43**	< 0.005	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	**0.05**	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.037**	**0.004**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.042**	**0.079**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**38**	**26**	**0.11**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.005**	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**4.6**	**7.3**	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**15**	**12**	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**3.9**	**0.47**	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.006**	**0.004**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**8.5**	**7.9**	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Selenium	**0.003**	**0.003**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**100**	**98**	< 5	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-MW-11-0812	GW-FPC-5A -0812	GW-FPC-5B -0812	LC-L-1-0812					
Lab Sample ID:	113653.03	113653.14	113653.15	113653.18					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/29/12	8/30/12	8/30/12	8/30/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	8/30/12	8/30/12	8/30/12	8/30/12					
Aluminum	< 0.05	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.009**	**0.053**	**0.002**	**0.004**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.068**	**0.11**	**0.033**	**0.087**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**22**	**43**	**4.9**	**79**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.002**	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**12**	**8.9**	**0.19**	**31**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**16**	**20**	**2.5**	**20**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.41**	**0.14**	**0.059**	**3.3**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.005**	**0.006**	**0.005**	**0.006**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**8.5**	**22**	**5.7**	**31**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	**0.002**	**0.003**	**0.007**	**0.005**	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**76**	**100**	**230**	**100**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	12 (108 %R)		mg/L	9/7/12	85 - 115	20	200.8
Antimony	< 0.001	1.1 (106 %R)		mg/L	9/6/12	85 - 115	20	200.8
Arsenic	< 0.001	1.0 (100 %R)		mg/L	9/6/12	85 - 115	20	200.8
Barium	< 0.001	1.0 (104 %R)		mg/L	9/6/12	85 - 115	20	200.8
Beryllium	< 0.001	1.0 (100 %R)		mg/L	9/6/12	85 - 115	20	200.8
Calcium	< 0.05	12 (113 %R)		mg/L	9/7/12	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (111 %R)		mg/L	9/6/12	85 - 115	20	200.8
Chromium	< 0.001	1.1 (108 %R)		mg/L	9/6/12	85 - 115	20	200.8
Copper	< 0.001	0.93 (93 %R)		mg/L	9/6/12	85 - 115	20	200.8
Cobalt	< 0.001	1.0 (102 %R)		mg/L	9/6/12	85 - 115	20	200.8
Iron	< 0.05	11 (97 %R)		mg/L	9/6/12	85 - 115	20	200.8
Lead	< 0.001	1.1 (109 %R)		mg/L	9/6/12	85 - 115	20	200.8
Magnesium	< 0.05	11 (103 %R)		mg/L	9/7/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (110 %R)		mg/L	9/6/12	85 - 115	20	200.8
Mercury	< 0.0001	0.0011 (107 %R)		mg/L	9/6/12	85 - 115	20	200.8
Nickel	< 0.001	0.99 (99 %R)		mg/L	9/6/12	85 - 115	20	200.8
Potassium	< 0.05	11 (100 %R)		mg/L	9/6/12	85 - 115	20	200.8
Selenium	< 0.001	1.0 (101 %R)		mg/L	9/6/12	85 - 115	20	200.8
Silver	< 0.001	0.10 (103 %R)		mg/L	9/6/12	85 - 115	20	200.8
Sodium	< 5	11 (104 %R)		mg/L	9/7/12	85 - 115	20	200.8
Thallium	< 0.001	1.1 (110 %R)		mg/L	9/6/12	85 - 115	20	200.8
Vanadium	< 0.005	1.1 (108 %R)		mg/L	9/6/12	85 - 115	20	200.8
Zinc	< 0.005	0.89 (89 %R)		mg/L	9/6/12	85 - 115	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	113653.07	< 0.05	20 (92 %R)	19 (89 %R) (3 RPD)	mg/L	9/7/12	70-130	20	200.8
Antimony	113653.07	< 0.001	1.1 (111 %R)	1.2 (118 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Arsenic	113653.07	0.088	1.1 (99 %R)	1.1 (103 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Barium	113653.07	0.13	1.2 (108 %R)	1.3 (116 %R) (7 RPD)	mg/L	9/6/12	70-130	20	200.8
Beryllium	113653.07	< 0.001	0.75 (75 %R)	0.77 (77 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Calcium	113653.07	49	67 (84 %R)	69 (89 %R) (6 RPD)	mg/L	9/7/12	70-130	20	200.8
Cadmium	113653.07	< 0.001	1.1 (109 %R)	1.2 (116 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Chromium	113653.07	< 0.001	0.93 (93 %R)	0.98 (98 %R) (5 RPD)	mg/L	9/6/12	70-130	20	200.8
Copper	113653.07	< 0.001	0.80 (80 %R)	0.83 (83 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Cobalt	113653.07	< 0.001	0.89 (89 %R)	0.93 (93 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Iron	113653.07	15	24 (83 %R)	25 (88 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Lead	113653.07	< 0.001	1.0 (102 %R)	1.1 (108 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Magnesium	113653.07	21	39 (82 %R)	39 (84 %R) (2 RPD)	mg/L	9/7/12	70-130	20	200.8
Manganese	113653.07	1.5	2.4 (92 %R)	2.6 (105 %R) (13 RPD)	mg/L	9/6/12	70-130	20	200.8
Mercury	113653.07	< 0.0001	0.0010 (98 %R)	0.0011 (106 %R) (8 RPD)	mg/L	9/6/12	70-130	20	200.8
Nickel	113653.07	0.006	0.86 (86 %R)	0.89 (88 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Potassium	113653.07	19	28 (83 %R)	28 (89 %R) (7 RPD)	mg/L	9/6/12	70-130	20	200.8
Selenium	113653.07	0.003	0.90 (89 %R)	0.89 (89 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Silver	113653.07	< 0.001	0.88 (88 %R)	0.87 (87 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Sodium	113653.07	74	93 (85 %R)	94 (88 %R) (3 RPD)	mg/L	9/7/12	70-130	20	200.8
Thallium	113653.07	< 0.001	1.0 (104 %R)	1.1 (111 %R) (7 RPD)	mg/L	9/6/12	70-130	20	200.8
Vanadium	113653.07	< 0.005	0.95 (95 %R)	1.0 (101 %R) (6 RPD)	mg/L	9/6/12	70-130	20	200.8
Zinc	113653.07	< 0.005	0.74 (74 %R)	0.78 (78 %R) (5 RPD)	mg/L	9/6/12	70-130	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113653**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Iron	< 0.05	11 (96 %R)		mg/L	9/7/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (108 %R)		mg/L	9/7/12	85 - 115	20	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Iron	113653.07	13	22 (79 %R)	22 (81 %R) (3 RPD)	mg/L	9/7/12	70-130	20	200.8
Manganese	113653.07	1.4	2.3 (88 %R)	2.3 (88 %R) (0 RPD)	mg/L	9/7/12	70-130	20	200.8

Aqueous Dissolved

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

CHAIN-OF-CUSTODY RECORD

113653

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 / 524.2 BTEX / 524.2 MTBE ONLY	VOC: (8260B) 624 VTICs 1,4 DIOXANE EDB DBCP	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MEGRO MAVPH	SVOC: 8270D 625 SVTICs ABN A BN PAH	SVOC: TPH8100 L1 L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081A PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: Br Cl F SO_4 NO_2 NO_3 NO_3NO_2	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN NH_3 T. PHOS. O. PHOS.	INORGANICS: pH T. RES. CHLORINE	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM	MICRO: ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: 1,4-Dioxane	OTHER: Dis. Fe, Mn	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
GW-MW-4-0812	8-28-12 / 18:55	GW	G												X											X	X		4	
GW-MW-9-0812	8-28-12 / 15:50	↓	↓												X											X	X		4	
GW-MW-11-0812	8-29-12 / 17:37				X										X											X			5	
GW-OP-5-0812	8-28-12 / 17:10														X												X		2	
GW-AE-2A-0812	8-30-12 / 14:45				X										X											X	X		6	
GW-AE-3A-0812	8-30-12 / 14:10				X										X											X	X		6	
GW-AE-3B-0812	8-30-12 / 12:30				X										X											X	X		18	
GW-AE-3B-DUP-0812	8-30-12 / 12:30				X										X											X	X		6	
GW-AE-4A-0812	8-29-12 / 14:20				X										X											X	X		6	
GW-AE-4B-0812	8-29-12 / 12:50	↓	↓		X										X											X	X		6	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH					H										N											-	N			

PROJECT MANAGER: Kevin McKibben
COMPANY: Provan + Lorber, Inc.
ADDRESS: P.O. Box 389
CITY: Contoocook STATE: NH ZIP: 03229
PHONE: 603-746-3220 EXT.:
FAX: 746-5642
E-MAIL:
SITE NAME: Coakley Landfill
PROJECT #: P2081
STATE: (NH) MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1010152 PO #:

DATE NEEDED: Standard T.A.T.

QA/QC REPORTING LEVEL: Special
A B C
OR
PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS
NO FAX E-MAIL (PDF) EQUIS

TEMP. 3 °C
ICE? (YES) NO

SAMPLER(S): K. McKibben, C. Perron

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Kevin McKibben	8-30-12	13:10	C. Perron
Craig Perron	30 Aug 2012	16:30	[signature]

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS: 23 TAL Metals
DISSOLVED METALS FIELD FILTERED? (YES) NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT) MS/MSD samples included for GW-AE-3B-0812

SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:

eastern analytical, inc. professional laboratory services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

30

Page 2 of 3

CHAIN-OF-CUSTODY RECORD

113653

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 BTEX 524.2 MTBE ONLY; 624 (8260) VTICs 1,4 DIOXANE EDB DBCP	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MEGRO MAVPH	SVOC: 8270D 625 SVTICs ABN A BN PAH	SVOC: TPH8100 LI L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081A PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: BR CL F SO4 NO2 NO3 NO2NO3	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN (NH3) T. PHOS. O. PHOS.	INORGANICS: PH T. RES. CHLORINE	INORGANICS: (COD) PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM	MICRO: ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: 1,4-DIOXANE	OTHER: DIS. FE, MN	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
GW-FPC-2A-0812	8-29-12 / 11:19	GW	G	X										X						X							X		4	
GW-FPC-2B-0812	8-29-12 / 13:00			X										X						X							X		4	
GW-FPC-4B-0812	8-29-12 / 11:05			X										X													X	X		6	
GW-FPC-5A-0812	8-30-12 / 11:15													X													X			3	
GW-FPC-5B-0812	8-30-12 / 9:30													X													X			3	
GW-FPC-6A-0812	8-29-12 / 17:45			X										X													X	X		6	
GW-FPC-6B-0812	8-29-12 / 16:30	↓		X										X													X	X		6	
LC-L-1-0812	8-30-12 / 10:20	SW		X										~~X~~					X		X						X			8	
LC-L-1-DUP-0812	8-30-12 / 10:20	SW	↓																X		X									2	
GW-MW-3B-FB-0812	8-30-12 / 11:30	DW		X										X													X	X		6	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER				H										N					S		S					–	N			
PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH																														

PROJECT MANAGER: Kevin McKibben

COMPANY: Provan + Lorber, Inc.

ADDRESS: P.O. Box 389

CITY: Contoocook STATE: NH ZIP: 03229

PHONE: 603-746-3220 EXT.:

FAX: 746-5643

E-MAIL:

SITE NAME: Coakley Landfill

PROJECT #: F2081

STATE: (NH) MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: 101152 PO #:

DATE NEEDED: Standard T.A.T.

QA/QC Special

REPORTING LEVEL

A B C

OR

PRESUMPTIVE CERTAINTY

REPORTING OPTIONS

PRELIMS: YES OR NO

IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS

NO FAX E-MAIL (PDF) EQUIS

TEMP. 3 °C

ICE? (YES) NO

SAMPLER(S): K. McKibben, C. Perron

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Kevin McKibben	8-30-12	15:10	Cyrus Perron
Cyrus Perron	30 Aug 2012	16:30	N. Zink

METALS: 8 RCRA 13 PP FE, MN PB, CU

OTHER METALS: 23 TAL Metals

DISSOLVED METALS FIELD FILTERED? (YES) NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

MS/MSD samples included for LC-L-1-0812 for Ammonia

SITE HISTORY:

SUSPECTED CONTAMINATION:

FIELD READINGS:

eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMERSERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

CHAIN-OF-CUSTODY RECORD

113653

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 BTEX / 524.2 MTBE only	VOC: 8260B 624 VTICs / 1,4 Dioxane EDB DBCP	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MEGRO MAVPH	SVOC: 8270D 625 SVTICs / ABN A BN PAH	SVOC: TPH8100 L1 L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608 / PEST 8081A PCB 8082	SVOC: Oil & Grease 1664 TPH 1664	TCLP: TCLP 1311 ABN Metals / VOC Pest Herb	Metals: Dissolved Metals (list below)	Metals: Total Metals (list below)	Inorganics: TS TSS TDS Spec. Con.	Inorganics: Br Cl F SO_4 / NO_2 NO_3 NO_3NO_2	Inorganics: BOD CBOD T. Alk.	Inorganics: TKN NH_3 T. Phos. O. Phos.	Inorganics: pH T. Res. Chlorine	Inorganics: COD Phenols TOC DOC	Inorganics: Total Cyanide Total Sulfide	Inorganics: Reactive Cyanide Reactive Sulfide / Flashpoint Ignitability	Micro: Total Coliform E. Coli / Fecal Coliform	Micro: Enterococci / Heterotrophic Plate Count	Other: 1,4-Dioxane	Other: Dis. Fe, Mn	Other	# of Containers	Notes MeOH Vial #
Trip Blank *	7/20/12 → EAI prep.				X																								2	
Trip Blank *	8/9/12																									X			2	
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water / Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH					H																					-	N			

PROJECT MANAGER: Kevin McKibben
COMPANY: Provan + Lorber, Inc.
ADDRESS: P.O. Box 389
CITY: Contoocook STATE: NH ZIP: 03229
PHONE: 603-746-3220 EXT.:
FAX: 746-5642
E-MAIL:
SITE NAME: Coakley Landfill
PROJECT #: P2081
STATE: (NH) MA ME VT OTHER:
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: 1010152 PO #:

DATE NEEDED: Standard T.A.T.

QA/QC REPORTING LEVEL: Special
A B C
OR
PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS
NO FAX E-MAIL (PDF) EQUIS

TEMP. 3 °C
ICE? (YES) NO

SAMPLER(S): K. McKibben, C. Perron

Relinquished By:	Date:	Time:	Received By:
Kevin McKibben	8-30-12	15:10	Cyrus Perron
Cyrus Perron	30 Aug 2012	16:30	[signature]

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS: 23 TAL Metals
DISSOLVED METALS FIELD FILTERED? (YES) NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)
*ADB 9/14/12

SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:

eastern analytical, inc.
professional laboratory services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

Volatile Organics 8260B

Initial Calibration

IS/SS ID= V- 3966 New IS/SS
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3963 (L) 3962 (G)

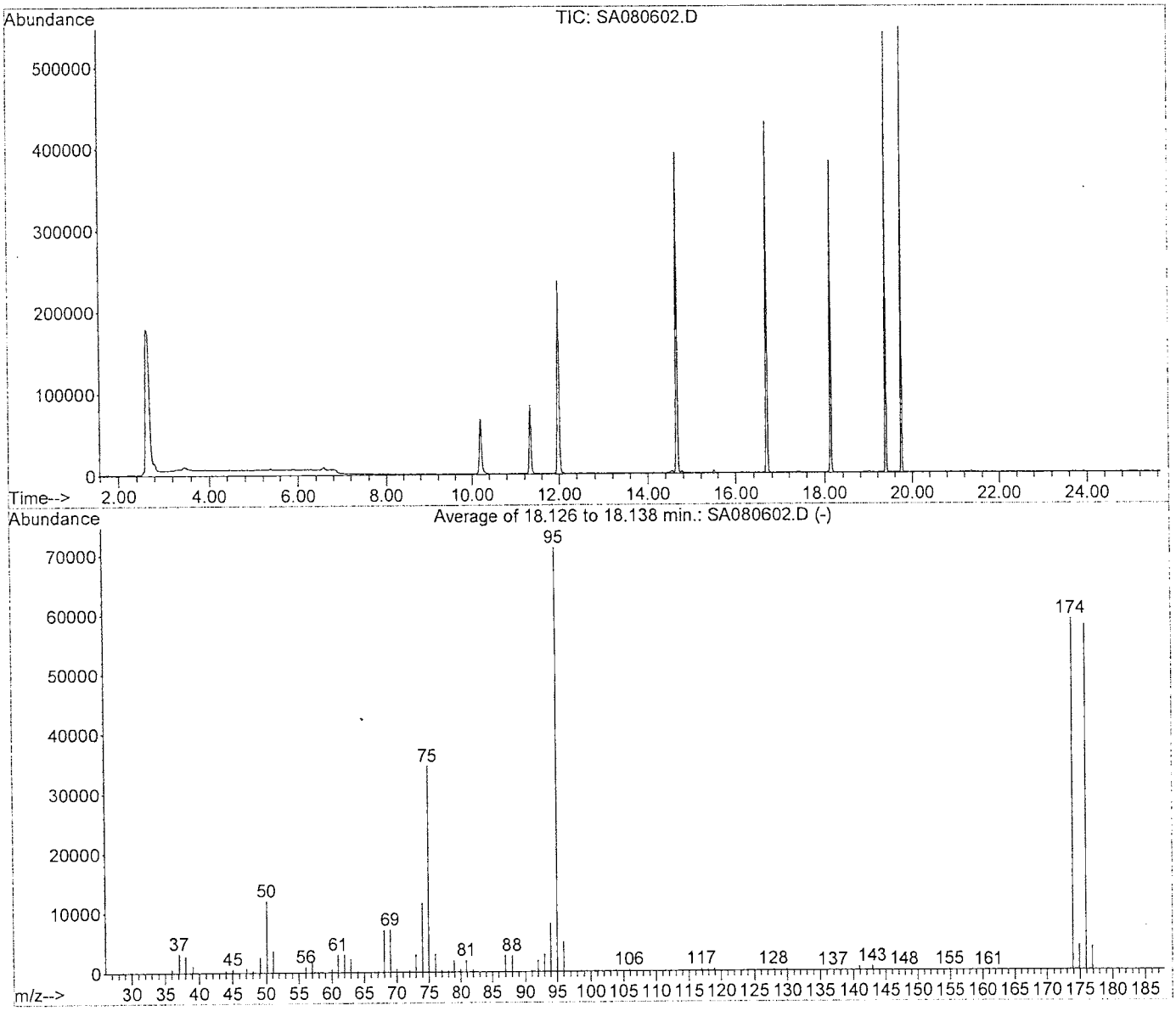
Analyst: Bduu

Date: 8/6/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A080601	BFB 25ng					VOCMS		AutoFind		✓
2		BFB					VOCMS		AutoFind		✓
3		0.2					VOCMS				
4		0.5					VOCMS				
5		1					VOCMS				
6		2					VOCMS				
7		5					VOCMS				
8		10					VOCMS				
9		20					VOCMS				
10		50					VOCMS				
11		50 G					VOCMS				
12		100					VOCMS				
13		100 G					VOCMS				
14		200					VOCMS				
15		200 G					VOCMS				
16		300					VOCMS				
17		300 G					VOCMS				
18		400 G					VOCMS				
19		Blank					VOCMS				
20							VOCMS				
21							VOCMS				
22							VOCMS				
23		LCS 20					VOCMS				
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Samples removed from autosampler, ✓ order ✓ and pH N/A verified by Bduu 8/7/12 1-23

Data File : W:\1\DATA\AUG12\AUG0612\SA080602.D Vial: 2
Acq On : 6 Aug 2012 8:32 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



Spectrum Information: Average of 18.126 to 18.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	12056	PASS
75	95	30	60	48.6	34584	PASS
95	95	100	100	100.0	71146	PASS
96	95	5	9	7.1	5038	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.8	58914	PASS
175	174	5	9	7.1	4187	PASS
176	174	95	101	98.3	57901	PASS
177	176	5	9	6.8	3932	PASS

SA080602.D 5VID0806.M Tue Sep 11 15:11:28 2012

Response Factor Report VOAMS5

Method : 5VID0806.M

Title : VOAMS5

Last Update : Wed Aug 08 13:56:55 2012

Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
1)	Fluorobenzene IS																		
2)	dichlorodifluoromethane	0.347	0.351	0.329	0.323	0.316	NA	NA	NA	0.321	NA	NA	NA	0.324	NA	0.330	0.332	0.330	3.56 ok
3) P	chloromethane	0.353	0.330	0.315	0.301	0.291	NA	NA	NA	0.298	NA	NA	NA	0.289	NA	0.290	0.288	0.306	7.33 ok
4) C	vinyl chloride	0.183	0.181	0.159	0.156	0.144	NA	NA	NA	0.146	0.185	NA	0.201	0.136	NA	0.126	NA	0.162	15.22 #
5)	bromomethane	0.202	0.191	0.182	0.186	0.187	NA	NA	NA	0.201	NA	NA	NA	0.205	NA	0.211	0.208	0.197	5.35 ok
6)	chloroethane	0.201	0.193	0.179	0.181	0.176	NA	NA	NA	0.180	NA	NA	NA	0.178	NA	0.181	0.179	0.183	4.56 ok
7)	trichlorofluoromethane	0.447	0.436	0.423	0.421	0.409	NA	NA	NA	0.422	NA	NA	NA	0.418	NA	0.420	0.410	0.423	2.85 ok
8)	diethyl ether	0.209	0.215	0.201	0.197	0.196	0.196	0.197	0.200	NA	NA	0.186	NA	NA	NA	NA	NA	0.200	4.14 ok
9)	1,1,2-Trichlorotrifluoroethane	0.315	0.306	0.299	0.291	0.286	0.286	0.288	0.291	NA	NA	0.266	NA	NA	NA	NA	NA	0.292	4.80 ok
10)	acrolein	NA	NA	0.017	0.012	0.008	NA	NA	NA	0.009	NA	NA	NA	NA	NA	NA	0.008	0.011	35.64 #
11)	acetone	NA	NA	NA	0.055	0.055	0.054	0.058	0.056	NA	NA	0.059	NA	NA	NA	NA	NA	0.056	3.36 ok
12) C	1,1-dichloroethene	0.272	0.273	0.267	0.259	0.257	0.256	0.260	0.263	NA	0.296	0.246	0.368	NA	NA	NA	NA	0.274	12.23 ok
13)	tert-Butyl Alcohol(TBA)	-0.121	0.023	0.021	0.020	0.020	0.020	0.021	0.021	NA	NA	0.020	NA	NA	NA	NA	NA	0.005	4.78 ok
14)	Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
15)	methylene chloride	0.321	0.306	0.293	0.282	0.278	0.274	0.276	0.279	NA	NA	0.257	NA	NA	NA	NA	NA	0.285	6.60 ok
16)	carbon disulfide	0.871	0.760	0.718	0.687	0.691	0.700	0.726	0.734	NA	NA	0.679	NA	NA	NA	NA	NA	0.730	8.06 ok
17)	acrylonitrile	NA	0.102	0.096	0.089	0.089	0.088	0.089	0.089	NA	NA	0.084	NA	NA	NA	NA	NA	0.091	6.07 ok
18)	Methyl-t-butyl ether(MTBE)	0.749	0.723	0.709	0.682	0.691	0.693	0.693	0.699	NA	0.788	0.654	0.824	NA	NA	NA	NA	0.719	6.96 ok
19)	trans-1,2-dichloroethene	0.267	0.269	0.258	0.252	0.251	0.257	0.265	0.276	NA	NA	0.263	NA	NA	NA	NA	NA	0.262	3.15 ok
20)	hexane	0.366	0.343	0.349	0.330	0.321	0.323	0.337	0.339	NA	NA	0.325	NA	NA	NA	NA	NA	0.337	4.31 ok
21)	Isopropyl ether(DIPE)	0.851	0.836	0.818	0.773	0.774	0.784	0.797	0.809	NA	NA	0.782	NA	NA	NA	NA	NA	0.803	3.48 ok
22)	vinyl acetate	0.583	0.509	0.448	0.449	0.409	NA	NA	NA	0.488	NA	NA	NA	0.460	NA	0.470	0.466	0.476	10.23 ok
23) P	1,1-dichloroethane	0.486	0.483	0.473	0.451	0.448	0.450	0.458	0.469	NA	NA	0.445	NA	NA	NA	NA	NA	0.462	3.38 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD	
24)	Ethyl-t-butyl ether(ETBE)	0.777	0.766	0.751	0.712	0.713	0.727	0.746	0.771	NA	NA	0.753	NA	NA	NA	NA	NA	0.746	3.22	ok
25)	2,2-dichloropropane	0.420	0.395	0.396	0.383	0.380	0.384	0.406	0.414	NA	NA	0.392	NA	NA	NA	NA	NA	0.397	3.54	ok
26)	cis-1,2-dichloroethene	0.378	0.371	0.347	0.341	0.343	0.347	0.352	0.360	NA	NA	0.341	NA	NA	NA	NA	NA	0.353	3.79	ok
27)	2-butanone(MEK)	-0.123	0.117	0.111	0.090	0.089	0.088	0.092	0.094	NA	NA	0.093	NA	NA	NA	NA	NA	0.072	11.34	ok
28)	bromochloromethane	0.141	0.141	0.139	0.136	0.138	0.140	0.144	0.152	NA	NA	0.148	NA	NA	NA	NA	NA	0.142	3.64	ok
29)	Tetrahydrofuran(THF)	-0.086	0.075	0.062	0.057	0.059	0.058	0.060	0.061	NA	NA	0.059	NA	NA	NA	NA	NA	0.045	9.39	ok
30) C	chloroform	0.484	0.476	0.464	0.445	0.448	0.453	0.465	0.481	NA	NA	0.461	NA	NA	NA	NA	NA	0.464	3.03	ok
31)	SS Dibromofluoromethane_MS	0.225	0.227	0.223	0.227	0.229	0.232	0.231	0.233	0.228	0.229	0.229	0.226	0.218	0.211	0.218	0.213	0.225	2.94	ok
32)	1,1,1-trichloroethane	0.405	0.407	0.398	0.391	0.393	0.407	0.418	0.441	NA	NA	0.416	NA	NA	NA	NA	NA	0.408	3.77	ok
33)	carbon tetrachloride	0.333	0.327	0.337	0.339	0.352	0.372	0.389	0.415	NA	NA	0.393	NA	NA	NA	NA	NA	0.362	8.77	ok
34)	1,1-dichloropropene	0.411	0.398	0.396	0.377	0.376	0.381	0.390	0.405	NA	NA	0.383	NA	NA	NA	NA	NA	0.391	3.16	ok
35)	SS 1,2-DCA-d4_MS	0.278	0.278	0.275	0.278	0.275	0.273	0.266	0.267	0.276	0.278	0.256	0.274	0.273	0.269	0.275	0.268	0.272	2.18	ok
36)	tert-amyl methyl ether(TAME)	0.732	0.717	0.709	0.678	0.683	0.707	0.732	0.774	NA	NA	0.764	NA	NA	NA	NA	NA	0.722	4.52	ok
37)	benzene	1.215	1.192	1.160	1.100	1.093	1.117	1.159	1.203	NA	NA	1.138	NA	NA	NA	NA	NA	1.153	3.86	ok
38)	1,2-dichloroethane	0.399	0.385	0.368	0.356	0.355	0.355	0.355	0.353	NA	NA	0.322	NA	NA	NA	NA	NA	0.361	6.05	ok
39)	trichloroethene	0.326	0.319	0.313	0.295	0.299	0.303	0.317	0.337	NA	0.329	0.323	-0.077	NA	NA	NA	NA	0.280	4.34	ok
40) C	1,2-dichloropropane	0.289	0.278	0.273	0.263	0.263	0.268	0.275	0.287	NA	NA	0.278	NA	NA	NA	NA	NA	0.275	3.44	ok
41)	1,4-dioxaneV	NA	NA	0.003	0.003	0.002	NA	NA	NA	0.002	NA	NA	NA	0.002	0.003	0.002	0.003	0.003	5.25	ok
42)	dibromomethane	0.171	0.168	0.163	0.160	0.161	0.164	0.170	0.177	NA	NA	0.171	NA	NA	NA	NA	NA	0.167	3.42	ok
43)	bromodichloromethane	0.328	0.314	0.315	0.319	0.332	0.350	0.368	0.392	NA	0.326	0.378	0.366	NA	NA	NA	NA	0.344	8.06	ok
44)	2-Chloroethoxyethene	NA	0.090	0.105	0.104	0.111	NA	NA	NA	0.120	NA	NA	NA	0.125	NA	0.138	NA	0.113	14.05	ok
45)	4-methyl-2-pentanone(MIBK)	0.077	0.076	0.078	0.073	0.075	0.077	0.081	0.083	NA	NA	0.080	NA	NA	NA	NA	NA	0.078	3.89	ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
46)	cis-1,3-dichloropropene	0.384	0.377	0.388	0.385	0.399	0.418	0.443	0.469	NA	0.391	0.455	0.444	NA	NA	NA	NA	0.414	7.99 ok
47)	Chlorobenzene-D5 IS																		
48)	SS Toluene-d8_MS	1.291	1.285	1.294	1.280	1.298	1.273	1.279	1.262	1.301	1.280	1.264	1.289	1.304	1.276	1.279	1.273	1.283	0.96 ok
49) C	toluene	1.750	1.672	1.650	1.561	1.570	1.594	1.662	1.664	NA	NA	1.537	NA	NA	NA	NA	NA	1.629	4.18 ok
50)	trans-1,3-dichloropropene	0.468	0.465	0.492	0.485	0.507	0.538	0.571	0.582	NA	0.469	0.568	0.523	NA	NA	NA	NA	0.515	8.54 ok
51)	1,1,2-trichloroethane	0.274	0.258	0.262	0.247	0.248	0.251	0.264	0.273	NA	NA	0.266	NA	NA	NA	NA	NA	0.260	3.94 ok
52)	2-hexanone	-0.205	0.195	0.196	0.170	0.169	0.173	0.175	0.169	NA	NA	0.161	NA	NA	NA	NA	NA	0.134	7.21 ok
53)	tetrachloroethene	0.445	0.431	0.431	0.412	0.416	0.425	0.451	0.459	NA	0.461	0.441	0.538	NA	NA	NA	NA	0.446	7.71 ok
54)	1,3-dichloropropane	0.576	0.554	0.554	0.522	0.528	0.535	0.551	0.562	NA	0.582	0.548	0.664	NA	NA	NA	NA	0.562	6.87 ok
55)	dibromochloromethane	0.273	0.279	0.298	0.307	0.332	0.370	0.404	0.426	NA	NA	0.413	NA	NA	NA	NA	NA	0.345	17.38 #
56)	1,2-dibromoethane	0.328	0.316	0.327	0.311	0.317	0.326	0.343	0.349	NA	NA	0.345	NA	NA	NA	NA	NA	0.329	4.13 ok
57) P	chlorobenzene	1.201	1.166	1.155	1.093	1.104	1.138	1.192	1.194	NA	NA	1.093	NA	NA	NA	NA	NA	1.148	3.80 ok
58)	1,1,1,2-tetrachloroethane	0.333	0.344	0.363	0.362	0.382	0.414	0.432	0.392	NA	NA	0.331	NA	NA	NA	NA	NA	0.372	9.52 ok
59) C	ethylbenzene	1.925	1.894	1.894	1.818	1.856	1.918	1.973	1.743	NA	NA	1.418	NA	NA	NA	NA	NA	1.827	9.15 ok
60)	mp-xylene	0.764	0.756	0.771	0.741	0.761	0.794	0.801	0.666	NA	0.777	0.537	0.874	NA	NA	NA	NA	0.749	11.47 ok
61)	o-xylene	0.733	0.731	0.736	0.710	0.719	0.745	0.785	0.773	NA	NA	0.693	NA	NA	NA	NA	NA	0.736	3.94 ok
62)	styrene	1.148	1.156	1.181	1.142	1.179	1.232	1.298	1.262	NA	NA	1.114	NA	NA	NA	NA	NA	1.190	5.14 ok
63) P	bromoform	0.143	0.142	0.158	0.169	0.195	0.225	0.251	0.265	NA	NA	0.256	NA	NA	NA	NA	NA	0.200	24.88 #
64)	iso-propylbenzene	1.746	1.735	1.745	1.688	1.724	1.792	1.859	1.746	NA	NA	1.515	NA	NA	NA	NA	NA	1.728	5.38 ok
65)	SS 4-BFB_MS	0.495	0.501	0.499	0.499	0.505	0.503	0.509	0.500	0.498	0.502	0.496	0.499	0.492	0.485	0.492	0.492	0.498	1.17 ok
66)	1,4-Dichlorobenzene-D4 IS																		
67)	bromobenzene	0.914	0.904	0.888	0.855	0.851	0.890	0.925	0.936	NA	NA	0.884	NA	NA	NA	NA	NA	0.894	3.24 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M

Title : VOAMS5

Last Update : Wed Aug 08 13:56:55 2012

Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
68) P	1,1,2,2-tetrachloroethane	0.657	0.637	0.631	0.619	0.596	0.619	0.620	0.615	NA	NA	0.601	NA	NA	NA	NA	NA	0.622	2.97 ok
69)	1,2,3-trichloropropane	0.247	0.222	0.224	0.210	0.210	0.214	0.221	0.224	NA	NA	0.219	NA	NA	NA	NA	NA	0.221	4.98 ok
70)	trans-1,4-dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
71)	n-propylbenzene	4.090	4.047	4.064	3.936	3.885	3.996	4.049	3.680	NA	NA	3.120	NA	NA	NA	NA	NA	3.874	8.00 ok
72)	2-chlorotoluene	2.609	2.568	2.512	2.406	2.394	2.459	2.487	2.409	NA	NA	2.097	NA	NA	NA	NA	NA	2.438	6.06 ok
73)	4-chlorotoluene	2.585	2.514	2.481	2.411	2.400	2.488	2.546	2.365	NA	NA	2.117	NA	NA	NA	NA	NA	2.434	5.70 ok
74)	1,3,5-trimethylbenzene	2.286	2.273	2.429	2.424	2.549	2.802	2.919	2.774	NA	NA	2.372	NA	NA	NA	NA	NA	2.536	9.42 ok
75)	tert-butylbenzene	2.579	2.552	2.551	2.509	2.478	2.604	2.646	2.471	NA	NA	2.178	NA	NA	NA	NA	NA	2.507	5.43 ok
76)	1,2,4-trimethylbenzene	2.174	2.214	2.382	2.368	2.503	2.814	2.944	2.751	NA	NA	2.341	NA	NA	NA	NA	NA	2.499	10.99 ok
77)	sec-butylbenzene	3.523	3.524	3.525	3.469	3.472	3.640	3.646	3.298	NA	NA	2.744	NA	NA	NA	NA	NA	3.427	8.05 ok
78)	1,3-dichlorobenzeneV	1.727	1.660	1.650	1.613	1.614	1.697	1.766	1.689	NA	NA	1.493	NA	NA	NA	NA	NA	1.657	4.78 ok
79)	p-isopropyltoluene	2.802	2.861	2.956	2.974	3.003	3.184	3.202	2.843	NA	NA	2.378	NA	NA	NA	NA	NA	2.911	8.39 ok
80)	1,4-dichlorobenzeneV	1.692	1.661	1.656	1.612	1.604	1.687	1.764	1.678	NA	NA	1.478	NA	NA	NA	NA	NA	1.648	4.81 ok
81)	1,2-dichlorobenzeneV	1.619	1.573	1.538	1.484	1.488	1.566	1.620	1.562	NA	NA	1.404	NA	NA	NA	NA	NA	1.539	4.55 ok
82)	n-butylbenzene	2.256	2.347	2.453	2.446	2.460	2.609	2.639	2.417	NA	NA	2.035	NA	NA	NA	NA	NA	2.407	7.59 ok
83)	SS 1,2-DCB-d4_MS	0.939	0.948	0.946	0.946	0.942	0.955	0.938	0.939	0.939	0.944	0.946	0.945	0.937	0.941	0.942	0.932	0.942	0.57 ok
84)	1,2-dibromo-3-chloropropane	0.100	0.098	0.105	0.113	0.122	0.137	0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.116	15.13 #
85)	1,3,5-trichlorobenzV	0.911	0.914	0.918	0.898	0.917	0.983	1.028	1.038	NA	NA	0.977	NA	NA	NA	NA	NA	0.954	5.65 ok
86)	1,2,4-trichlorobenzV	0.727	0.740	0.759	0.749	0.781	0.833	0.874	0.911	NA	NA	0.880	NA	NA	NA	NA	NA	0.806	8.62 ok
87)	hexachlorobutadieneV	0.352	0.349	0.349	0.344	0.346	0.367	0.388	0.405	NA	0.373	0.393	0.382	NA	NA	NA	NA	0.368	5.84 ok
88)	naphthaleneV	NA	1.465	1.614	1.737	1.851	2.009	2.102	2.188	NA	NA	2.098	NA	NA	NA	NA	NA	1.883	13.79 ok
89)	1,2,3-trichlorobenzV	0.636	0.644	0.659	0.648	0.675	0.720	0.747	0.789	NA	NA	0.776	NA	NA	NA	NA	NA	0.699	8.53 ok
90)	SS 2,5-DBT_MS	NA	NA	0.116	0.136	0.165	0.211	0.215	0.242	NA	NA	0.257	NA	NA	NA	NA	NA	0.192	28.05 #

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:03:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	321600	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	237612	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	125934	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72699	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.85%			
35) SS 1,2-DCA-d4_MS	11.33	65	88149	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.54%			
48) SS Toluene-d8_MS	14.65	98	306251	10.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.29%			
65) SS 4-BFB_MS	18.13	95	118518	9.70	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.03%			
83) SS 1,2-DCB-d4_MS	19.75	152	118999	10.23	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.26%			
90) SS 2,5-DBT_MS	23.36	250	39	2.88	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.20%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	1293	0.183	ug/L	96
12) 1,1-dichloroethene	5.62	96	2366	0.348	ug/L #	81
18) Methyl-t-butyl ether(MTBE)	6.86	73	10606	0.508	ug/L #	93
39) trichloroethene	12.73	95	2485	0.264	ug/L	97
43) bromodichloromethane	13.44	83	2352	0.228	ug/L	98
46) cis-1,3-dichloropropene	14.30	75	2857	0.221	ug/L #	73
50) trans-1,3-dichloropropene	15.03	75	2486	0.211	ug/L #	84
53) tetrachloroethene	15.67	166	2555	0.267	ug/L	96
54) 1,3-dichloropropane	15.59	76	3156m	0.247	ug/L	
60) mp-xylene	16.88	106	8303	0.483	ug/L	98
87) hexachlorobutadieneV	21.56	225	962	0.211	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

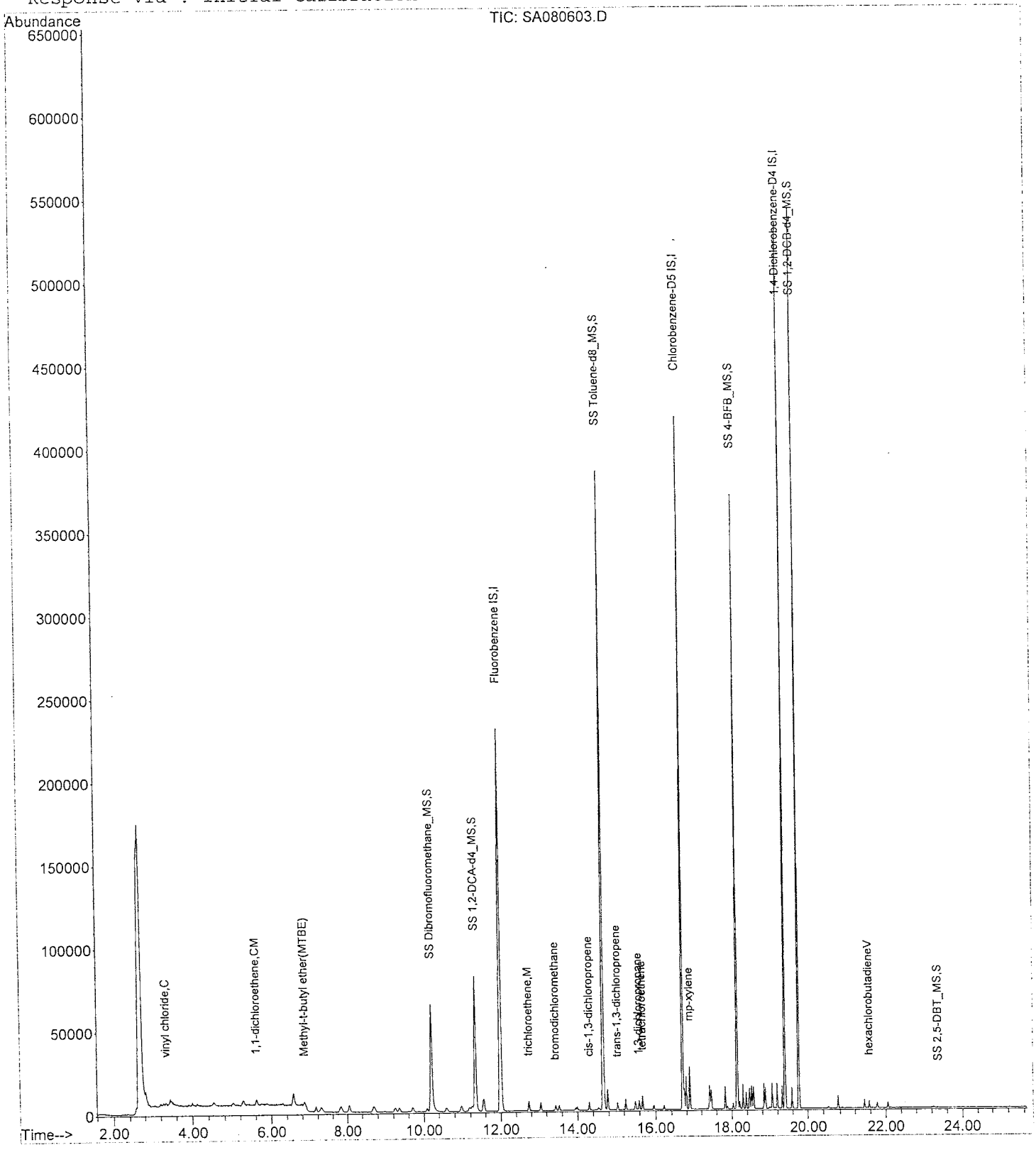
Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D
Acq On : 6 Aug 2012 9:15 am
Sample : 0.2
Misc : x1; 5mL;
MS Integration Params: rteint.p
Quant Time: Aug 8 13:49 2012

Vial: 3
Operator: BAM
Inst : VOAMS5
Multiplr: 1.00

Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:05:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316040	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	236074	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124392	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72400	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.20%			
35) SS 1,2-DCA-d4_MS	11.33	65	87751	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.85%			
48) SS Toluene-d8_MS	14.65	98	302232	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	118398	9.76	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.56%			
83) SS 1,2-DCB-d4_MS	19.75	152	117461	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.19%			
90) SS 2,5-DBT_MS	23.36	250	327	2.99	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.48%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	2922	0.420	ug/L	99
12) 1,1-dichloroethene	5.62	96	4670	0.699	ug/L	89
18) Methyl-t-butyl ether(MTBE)	6.85	73	24890	1.214	ug/L	96
39) trichloroethene	12.73	95	5202	0.562	ug/L	95
43) bromodichloromethane	13.44	83	5151	0.507	ug/L	96
46) cis-1,3-dichloropropene	14.30	75	6183	0.486	ug/L #	85
50) trans-1,3-dichloropropene	15.03	75	5532	0.473	ug/L #	85
53) tetrachloroethene	15.67	166	5436	0.572	ug/L	97
54) 1,3-dichloropropane	15.59	76	6870m	0.541	ug/L	
60) mp-xylene	16.89	106	18338	1.073	ug/L	97
87) hexachlorobutadieneV	21.56	225	2318	0.516	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

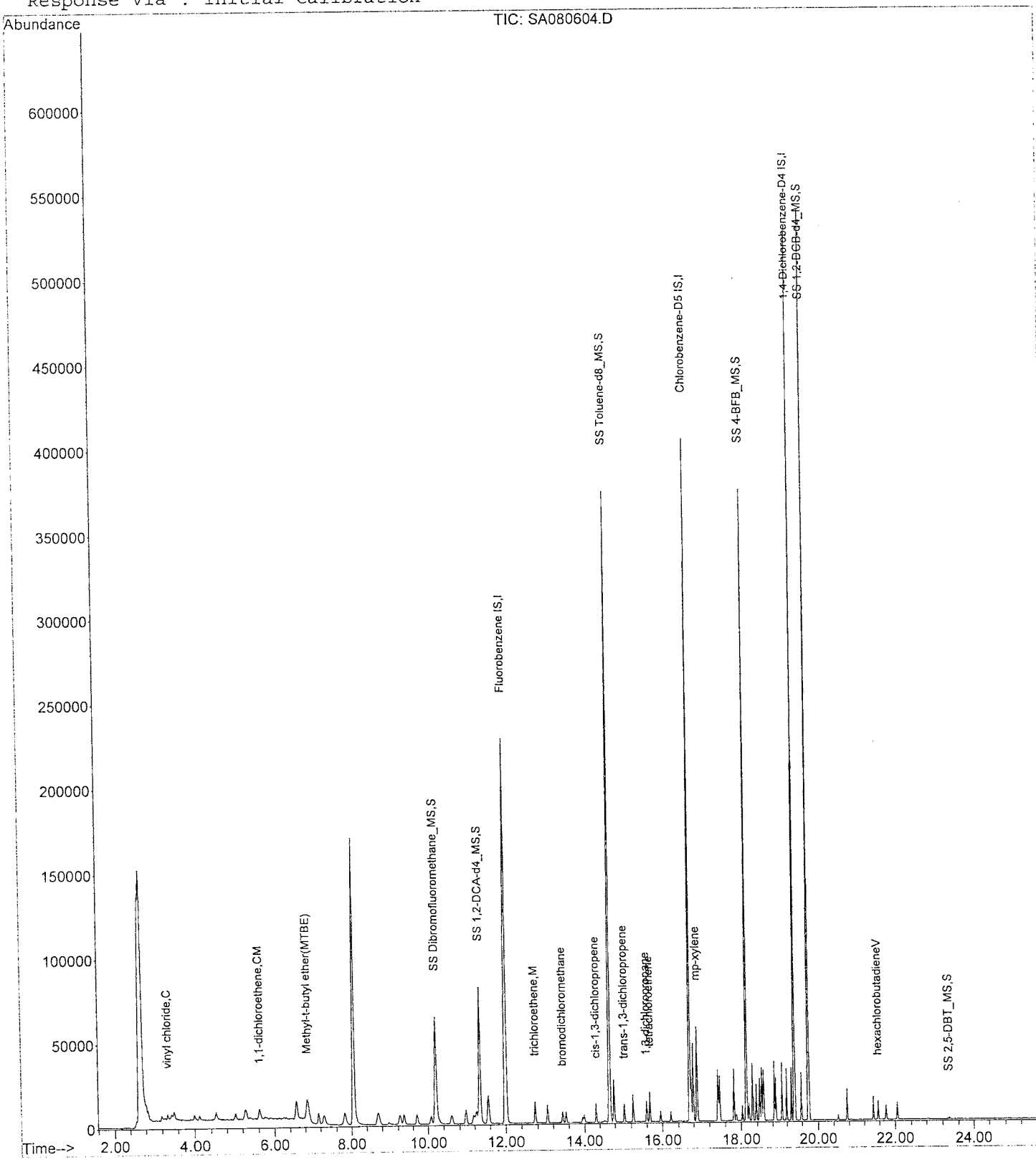
Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D
Acq On : 6 Aug 2012 9:49 am
Sample : 0.5
Misc : x1; 5mL;
MS Integration Params: rteint.p
Quant Time: Aug 8 13:50 2012

Vial: 4
Operator: BAM
Inst : VOAMS5
Multiplr: 1.00

Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316523	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	235668	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124287	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.20	111	71321	10.05 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.53%		
35) SS 1,2-DCA-d4_MS	11.33	65	87915	10.19 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%		
48) SS Toluene-d8_MS	14.65	98	304199	10.04 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.44%		
65) SS 4-BFB_MS	18.13	95	116550	9.62 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.20%		
83) SS 1,2-DCB-d4_MS	19.75	152	116665	10.16 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.58%		
90) SS 2,5-DBT_MS	23.36	250	779	3.16 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.90%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	10987	1.063 ug/L	99
3) chloromethane	3.20	50	11177	1.243 ug/L	99
4) vinyl chloride	3.34	62	5803	0.832 ug/L	99
5) bromomethane	3.99	94	6397	1.222 ug/L	93
6) chloroethane	4.11	64	6376	1.340 ug/L	94
7) trichlorofluoromethane	4.52	101	14147	1.230 ug/L	98
8) diethyl ether	5.02	59	6606	1.214 ug/L #	84
9) 1,1,2-Trichlorotrifluoroet	5.28	101	9980	1.309 ug/L	98
10) acrolein	5.28	56	888	1.006 ug/L #	30
11) acetone	5.39	43	3469	Below Cal	96
12) 1,1-dichloroethene	5.62	96	8605	1.286 ug/L	94
13) tert-Butyl Alcohol(TBA)	5.78	59	3824m	6.069 ug/L	
15) methylene chloride	6.56	84	10149	1.393 ug/L	95
16) carbon disulfide	6.57	76	27555	1.505 ug/L #	92
17) acrylonitrile	6.82	53	3487	1.258 ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	47439	2.310 ug/L	99
19) trans-1,2-dichloroethene	7.15	96	8464	1.071 ug/L	97
20) hexane	7.29	57	11572	1.038 ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	26945	1.090 ug/L	95
22) vinyl acetate	8.05	43	18443	1.913 ug/L	97
23) 1,1-dichloroethane	8.04	63	15382	1.071 ug/L #	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	24595	1.003 ug/L #	94
25) 2,2-dichloropropane	9.25	77	13302	1.097 ug/L #	91
26) cis-1,2-dichloroethene	9.35	61	11954	1.050 ug/L	98
27) 2-butanone(MEK)	8.96	43	3906	1.169 ug/L	92
28) bromochloromethane	10.07	128	4477	1.073 ug/L	99
29) Tetrahydrofuran(THF)	10.15	42	2714	1.359 ug/L #	87
30) chloroform	9.71	83	15315	1.068 ug/L	98
32) 1,1,1-trichloroethane	10.60	97	12810	1.027 ug/L	97
33) carbon tetrachloride	11.17	117	10537	1.029 ug/L #	98
34) 1,1-dichloropropene	10.97	75	13006	1.048 ug/L #	88
36) tert-amyl methyl ether(TAM	11.25	73	23160	1.052 ug/L	94
37) benzene	11.56	78	38463	1.101 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

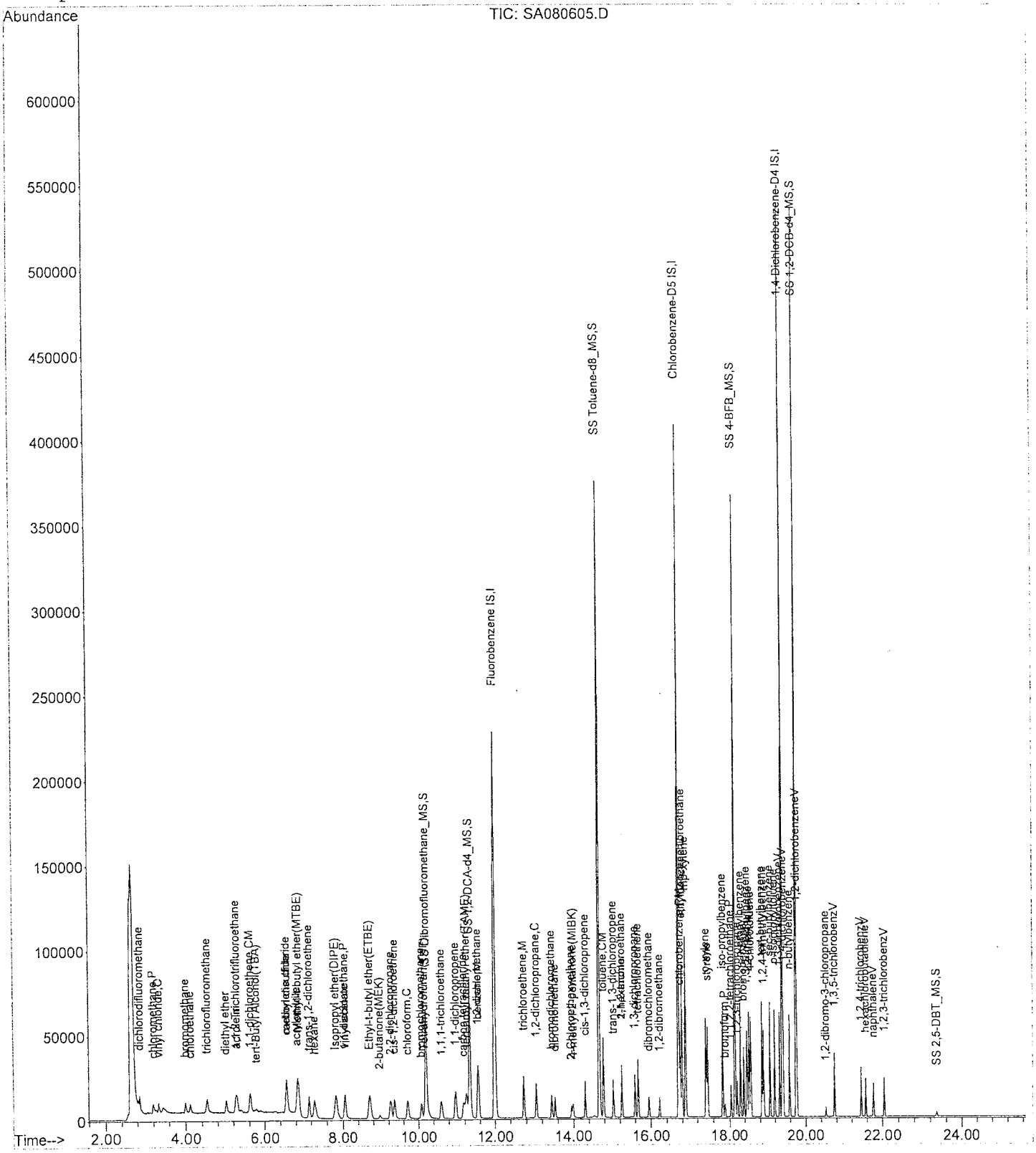
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	11.53	62	12624	1.104 ug/L	99
39)	trichloroethene	12.73	95	10323	1.114 ug/L	95
40)	1,2-dichloropropane	13.05	63	9136	1.068 ug/L #	91
42)	dibromomethane	13.53	93	5408	1.092 ug/L #	98
43)	bromodichloromethane	13.44	83	10369	1.020 ug/L	98
44)	2-Chloroethoxyethene	13.95	63	3280	0.686 ug/L	94
45)	4-methyl-2-pentanone(MIBK)	13.99	58	2434	0.883 ug/L	78
46)	cis-1,3-dichloropropene	14.30	75	12152	0.954 ug/L #	88
49)	toluene	14.77	91	41249	1.113 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	11039	0.945 ug/L #	86
51)	1,1,2-trichloroethane	15.25	83	6461	1.110 ug/L	98
52)	2-hexanone	15.25	43	4837	1.058 ug/L	91
53)	tetrachloroethene	15.67	166	10478	1.104 ug/L #	97
54)	1,3-dichloropropane	15.59	76	13576	1.071 ug/L	89
55)	dibromochloromethane	15.95	129	6441	2.288 ug/L #	99
56)	1,2-dibromoethane	16.22	107	7725	1.041 ug/L #	99
57)	chlorobenzene	16.74	112	28294	1.118 ug/L	98
58)	1,1,1,2-tetrachloroethane	16.78	131	7840	1.039 ug/L #	73
59)	ethylbenzene	16.79	91	45367	1.061 ug/L	99
60)	mp-xylene	16.89	106	35991	2.109 ug/L	97
61)	o-xylene	17.41	106	17284	1.047 ug/L	98
62)	styrene	17.46	104	27043	0.946 ug/L	99
63)	bromoform	17.88	173	3359	2.855 ug/L #	93
64)	iso-propylbenzene	17.83	105	41159	1.025 ug/L	98
67)	bromobenzene	18.38	156	11354	1.107 ug/L	97
68)	1,1,2,2-tetrachloroethane	18.03	83	8170	0.972 ug/L #	1
69)	1,2,3-trichloropropane	18.21	110	3070	1.114 ug/L	93
71)	n-propylbenzene	18.28	91	50832	1.025 ug/L	99
72)	2-chlorotoluene	18.51	91	32423	1.053 ug/L	97
73)	4-chlorotoluene	18.56	91	32127	1.033 ug/L	97
74)	1,3,5-trimethylbenzene	18.45	105	28415	0.806 ug/L	98
75)	tert-butylbenzene	18.84	119	32051	1.039 ug/L	99
76)	1,2,4-trimethylbenzene	18.89	105	27025	0.744 ug/L	96
77)	sec-butylbenzene	19.06	105	43785	1.003 ug/L	97
78)	1,3-dichlorobenzeneV	19.32	146	21465	1.113 ug/L	98
79)	p-isopropyltoluene	19.19	119	34821	0.930 ug/L	97
80)	1,4-dichlorobenzeneV	19.42	146	21028m	1.084 ug/L	
81)	1,2-dichlorobenzeneV	19.78	146	20120	1.110 ug/L #	45
82)	n-butylbenzene	19.58	91	28034	0.869 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	1240	0.762 ug/L	96
85)	1,3,5-trichlorobenzV	20.75	180	11318	0.977 ug/L	98
86)	1,2,4-trichlorobenzV	21.44	180	9038	0.911 ug/L	97
87)	hexachlorobutadieneV	21.56	225	4376	0.974 ug/L	96
88)	naphthaleneV	21.76	128	16286	0.643 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	7901	0.911 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:11 2012 Quant Results File: 5VID0515.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	311125	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233148	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124069	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70681	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.35%			
35) SS 1,2-DCA-d4_MS	11.33	65	86459	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.94%			
48) SS Toluene-d8_MS	14.65	98	299524	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.96%			
65) SS 4-BFB_MS	18.13	95	116701	9.74	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	117640	10.26	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.61%			
90) SS 2,5-DBT_MS	23.36	250	1906	3.59	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 8.97%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	21865	2.151	ug/L	96
3) chloromethane	3.19	50	20517	2.321	ug/L	98
4) vinyl chloride	3.34	62	11275	1.645	ug/L	100
5) bromomethane	3.99	94	11888	2.310	ug/L	96
6) chloroethane	4.11	64	11981	2.561	ug/L	96
7) trichlorofluoromethane	4.52	101	27154	2.402	ug/L	98
8) diethyl ether	5.01	59	13374	2.500	ug/L	93
9) 1,1,2-Trichlorotrifluoroet	5.27	101	19045	2.540	ug/L	97
10) acrolein	5.26	56	2388m	2.752	ug/L	
11) acetone	5.38	43	5911	Below Cal		92
12) 1,1-dichloroethene	5.61	96	17012	2.586	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.76	59	7098	11.461	ug/L #	100
15) methylene chloride	6.55	84	19040	2.660	ug/L	95
16) carbon disulfide	6.57	76	47284	2.627	ug/L	95
17) acrylonitrile	6.81	53	6364	2.335	ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	89987	4.459	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	16725	2.152	ug/L	96
20) hexane	7.28	57	21323	1.946	ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	51994	2.139	ug/L	96
22) vinyl acetate	8.05	43	31655	3.340	ug/L	100
23) 1,1-dichloroethane	8.05	63	30031	2.127	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	47648	1.978	ug/L #	96
25) 2,2-dichloropropane	9.24	77	24594	2.063	ug/L #	91
26) cis-1,2-dichloroethene	9.36	61	23071	2.062	ug/L	98
27) 2-butanone(MEK)	8.96	43	7291	2.219	ug/L	95
28) bromochloromethane	10.08	128	8772	2.139	ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	4673	2.381	ug/L	92
30) chloroform	9.70	83	29613	2.101	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	25340	2.067	ug/L	98
33) carbon tetrachloride	11.17	117	20325	2.018	ug/L #	96
34) 1,1-dichloropropene	10.97	75	24741	2.028	ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	44633	2.062	ug/L	97
37) benzene	11.56	78	74146	2.159	ug/L	99

(#) = qualifier out of range (m) = manual integration
SA080606.D 5VID0806.M Tue Sep 11 15:12:08 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

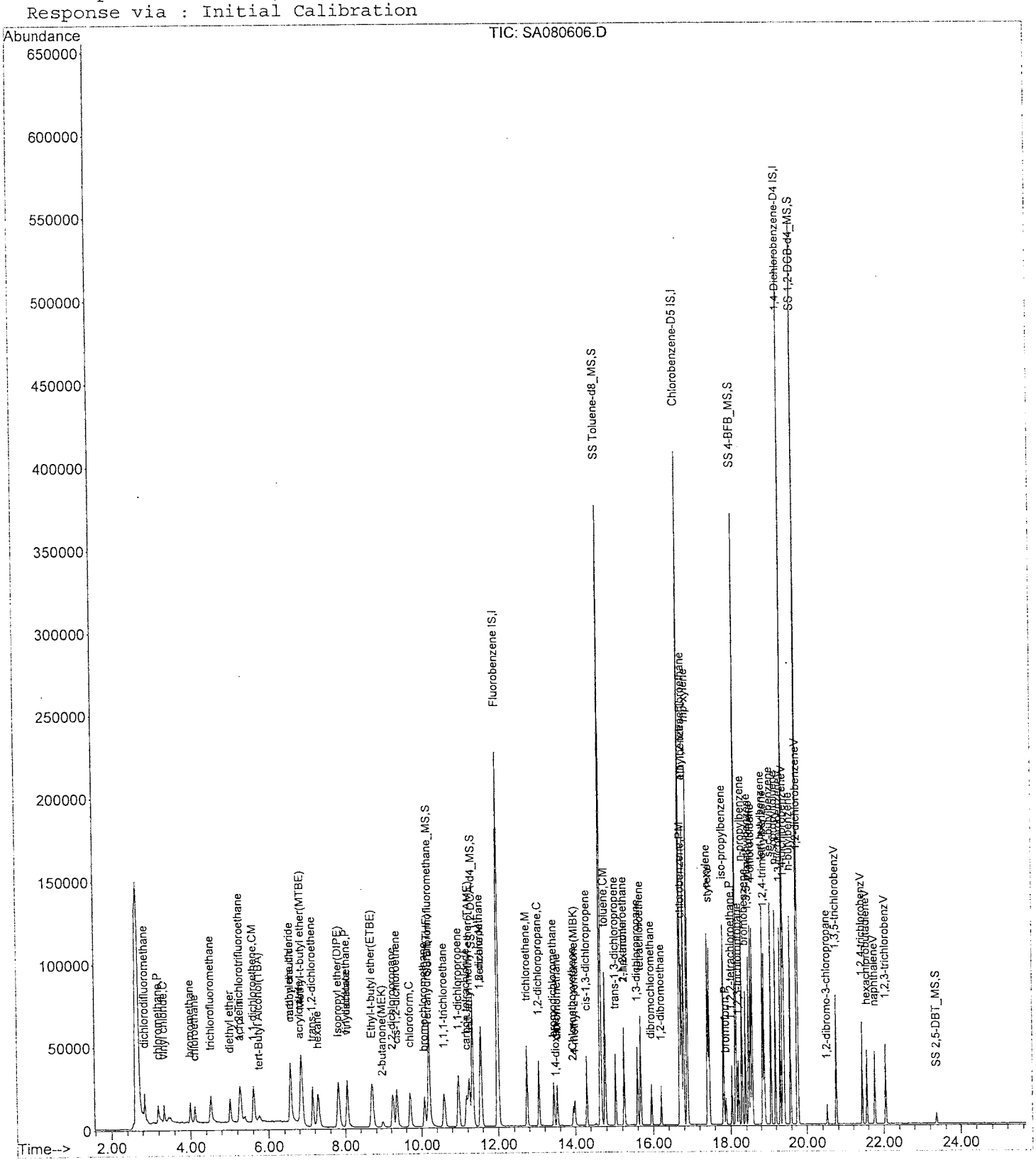
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	11.53	62	23978	2.133 ug/L	100
39)	trichloroethene	12.73	95	19845	2.179 ug/L	95
40)	1,2-dichloropropane	13.05	63	17299	2.058 ug/L #	93
41)	1,4-dioxaneV	13.49	88	172	2.012 ug/L #	49
42)	dibromomethane	13.53	93	10439	2.144 ug/L #	98
43)	bromodichloromethane	13.44	83	19536	1.954 ug/L	97
44)	2-Chloroethoxyethene	13.95	63	5577	1.187 ug/L #	52
45)	4-methyl-2-pentanone(MIBK)	13.99	58	4759	1.756 ug/L #	51
46)	cis-1,3-dichloropropene	14.30	75	23468	1.874 ug/L #	90
49)	toluene	14.77	91	77950	2.125 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	21698	1.878 ug/L #	92
51)	1,1,2-trichloroethane	15.25	83	12011	2.086 ug/L	96
52)	2-hexanone	15.25	43	9095	2.010 ug/L	93
53)	tetrachloroethene	15.67	166	20088	2.140 ug/L	96
54)	1,3-dichloropropane	15.59	76	25839	2.061 ug/L	90
55)	dibromochloromethane	15.95	129	12989	3.076 ug/L #	98
56)	1,2-dibromoethane	16.22	107	14738	2.008 ug/L #	99
57)	chlorobenzene	16.74	112	54350	2.171 ug/L	98
58)	1,1,1,2-tetrachloroethane	16.78	131	16022	2.146 ug/L	98
59)	ethylbenzene	16.79	91	88316	2.088 ug/L	98
60)	mp-xylene	16.88	106	70544	4.178 ug/L	96
61)	o-xylene	17.41	106	34099	2.088 ug/L	97
62)	styrene	17.46	104	53896	1.907 ug/L	99
63)	bromoform	17.88	173	6642	3.500 ug/L #	94
64)	iso-propylbenzene	17.82	105	80881	2.036 ug/L	98
67)	bromobenzene	18.38	156	22423	2.190 ug/L	96
68)	1,1,2,2-tetrachloroethane	18.04	83	15817	1.885 ug/L #	1
69)	1,2,3-trichloropropane	18.20	110	5503	2.000 ug/L	99
71)	n-propylbenzene	18.28	91	100427	2.029 ug/L	97
72)	2-chlorotoluene	18.51	91	63734	2.074 ug/L	98
73)	4-chlorotoluene	18.56	91	62393	2.009 ug/L	96
74)	1,3,5-trimethylbenzene	18.45	105	56406	1.603 ug/L	97
75)	tert-butylbenzene	18.84	119	63320	2.056 ug/L	99
76)	1,2,4-trimethylbenzene	18.89	105	54935	1.515 ug/L	98
77)	sec-butylbenzene	19.06	105	87436	2.007 ug/L	98
78)	1,3-dichlorobenzeneV	19.32	146	41188	2.140 ug/L	99
79)	p-isopropyltoluene	19.19	119	70986	1.899 ug/L	97
80)	1,4-dichlorobenzeneV	19.42	146	41223	2.128 ug/L	94
81)	1,2-dichlorobenzeneV	19.77	146	39028	2.156 ug/L #	88
82)	n-butylbenzene	19.58	91	58226	1.808 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.52	157	2421	1.491 ug/L	97
85)	1,3,5-trichlorobenzV	20.75	180	22668	1.961 ug/L	99
86)	1,2,4-trichlorobenzV	21.44	180	18354	1.853 ug/L	97
87)	hexachlorobutadieneV	21.56	225	8658	1.931 ug/L	97
88)	naphthaleneV	21.76	128	36346	1.437 ug/L	100
89)	1,2,3-trichlorobenzV	22.05	180	15984	1.846 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:12 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	323591	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	239508	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128971	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	72128	9.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.44%			
35) SS 1,2-DCA-d4_MS	11.33	65	88847	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.72%			
48) SS Toluene-d8_MS	14.65	98	309915	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.68%			
65) SS 4-BFB_MS	18.13	95	119539	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.09%			
83) SS 1,2-DCB-d4_MS	19.75	152	122063	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.42%			
90) SS 2,5-DBT_MS	23.36	250	7466	5.60	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 13.99%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	53171	5.030	ug/L	99
3) chloromethane	3.19	50	50935	5.541	ug/L	98
4) vinyl chloride	3.34	62	25654	3.600	ug/L	99
5) bromomethane	3.99	94	29457	5.503	ug/L	98
6) chloroethane	4.11	64	29011	5.962	ug/L	96
7) trichlorofluoromethane	4.52	101	68502	5.827	ug/L	100
8) diethyl ether	5.02	59	32583	5.855	ug/L	94
9) 1,1,2-Trichlorotrifluoroet	5.27	101	48383	6.205	ug/L	98
10) acrolein	5.27	56	2796m	3.098	ug/L	
11) acetone	5.38	43	14589	2.255	ug/L	94
12) 1,1-dichloroethene	5.61	96	43165	6.309	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.76	59	17125	26.587	ug/L #	100
15) methylene chloride	6.55	84	47335	6.357	ug/L	96
16) carbon disulfide	6.57	76	116173	6.205	ug/L	100
17) acrylonitrile	6.81	53	15473	5.459	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	229512	10.934	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	41764	5.168	ug/L	97
20) hexane	7.29	57	56522	4.960	ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	132364	5.236	ug/L	97
22) vinyl acetate	8.05	43	72430	7.347	ug/L	100
23) 1,1-dichloroethane	8.04	63	76560	5.214	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	121521	4.850	ug/L	97
25) 2,2-dichloropropane	9.25	77	64044	5.166	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	56120	4.824	ug/L	95
27) 2-butanone(MEK)	8.97	43	18024	5.274	ug/L	97
28) bromochloromethane	10.07	128	22570	5.291	ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	10052	4.924	ug/L	96
30) chloroform	9.70	83	75079	5.122	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	64394	5.051	ug/L	99
33) carbon tetrachloride	11.17	117	54504	5.204	ug/L #	98
34) 1,1-dichloropropene	10.97	75	64118	5.053	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	114648	5.094	ug/L	98
37) benzene	11.56	78	187750	5.256	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

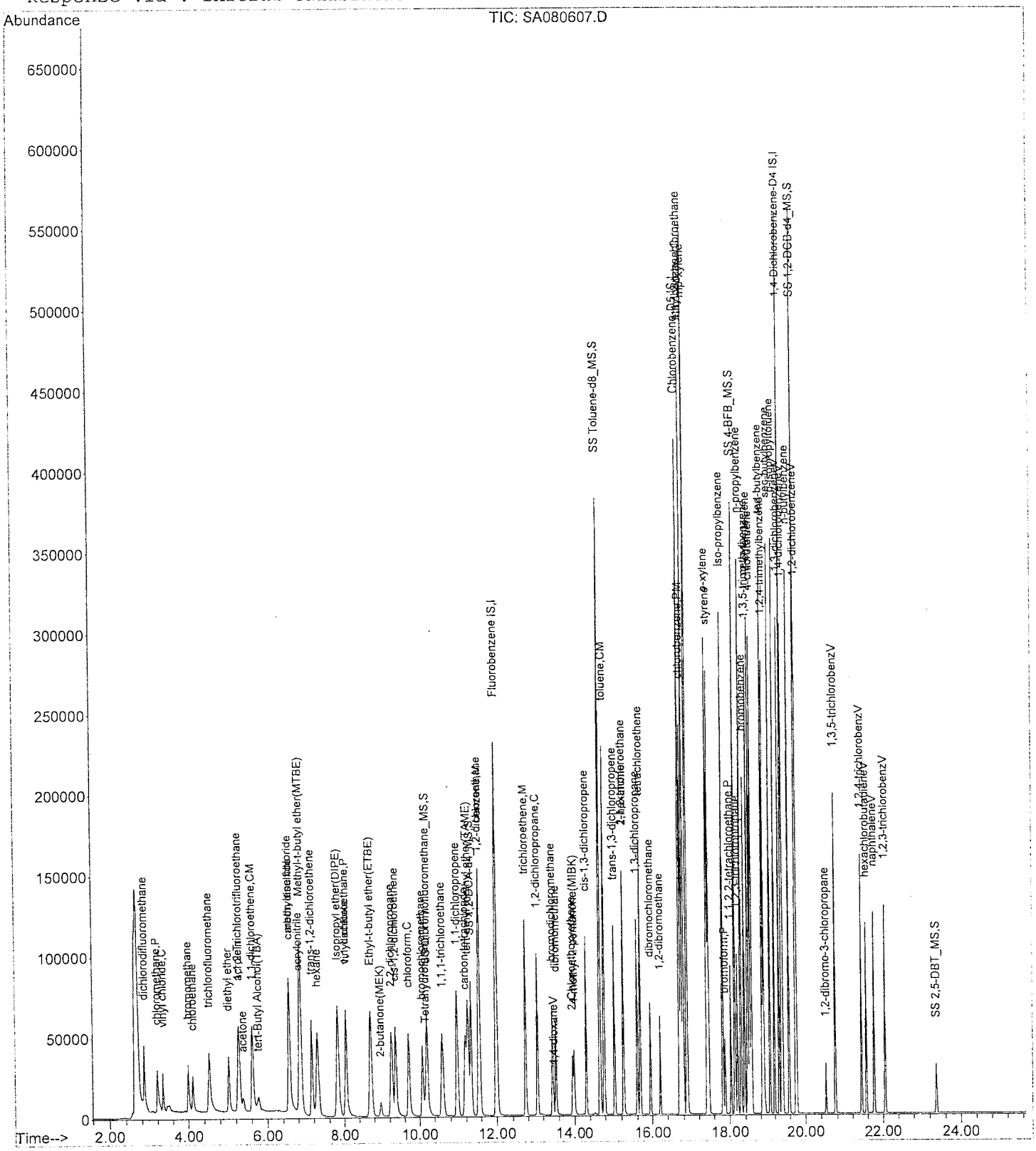
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	59487	5.088	ug/L		99
39)	trichloroethene	12.73	95	50627	5.346	ug/L		95
40)	1,2-dichloropropane	13.05	63	44207	5.057	ug/L		94
41)	1,4-dioxaneV	13.48	88	873	9.820	ug/L	#	80
42)	dibromomethane	13.53	93	26366	5.206	ug/L	#	99
43)	bromodichloromethane	13.44	83	50982	4.904	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	17014	3.481	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	12579	4.462	ug/L		87
46)	cis-1,3-dichloropropene	14.30	75	62796	4.820	ug/L	#	92
49)	toluene	14.77	91	197616	5.245	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	58883	4.960	ug/L	#	92
51)	1,1,2-trichloroethane	15.25	83	31374	5.303	ug/L		97
52)	2-hexanone	15.25	43	23507	5.057	ug/L		95
53)	tetrachloroethene	15.67	166	51556	5.345	ug/L		97
54)	1,3-dichloropropane	15.59	76	66386	5.154	ug/L		93
55)	dibromochloromethane	15.95	129	35732	5.670	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	39148	5.193	ug/L	#	99
57)	chlorobenzene	16.74	112	138257	5.376	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	43412	5.660	ug/L		99
59)	ethylbenzene	16.79	91	226843	5.221	ug/L		99
60)	mp-xylene	16.89	106	184680	10.648	ug/L		95
61)	o-xylene	17.41	106	88114	5.252	ug/L		97
62)	styrene	17.46	104	141440	4.871	ug/L		99
63)	bromoform	17.88	173	18891	5.783	ug/L	#	94
64)	iso-propylbenzene	17.82	105	208983	5.121	ug/L		98
67)	bromobenzene	18.38	156	57275	5.382	ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	40719	4.667	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	14428	5.045	ug/L		96
71)	n-propylbenzene	18.28	91	262085	5.094	ug/L		97
72)	2-chlorotoluene	18.51	91	162000	5.072	ug/L		96
73)	4-chlorotoluene	18.56	91	159991	4.956	ug/L		97
74)	1,3,5-trimethylbenzene	18.45	105	156635	4.283	ug/L		97
75)	tert-butylbenzene	18.84	119	164524	5.138	ug/L		98
76)	1,2,4-trimethylbenzene	18.89	105	153626	4.076	ug/L		98
77)	sec-butylbenzene	19.06	105	227299	5.019	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	106408	5.319	ug/L		98
79)	p-isopropyltoluene	19.18	119	190634	4.906	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	106758	5.302	ug/L		96
81)	1,2-dichlorobenzeneV	19.78	146	99154	5.270	ug/L	#	90
82)	n-butylbenzene	19.58	91	158164	4.726	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	6773	4.013	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	59213	4.927	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	48968	4.757	ug/L		98
87)	hexachlorobutadieneV	21.56	225	22516	4.831	ug/L		97
88)	naphthaleneV	21.76	128	104106	3.961	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	42519	4.724	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:13 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	324389	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	242009	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	129685	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	73780	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
35) SS 1,2-DCA-d4_MS	11.32	65	90318	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.13%			
48) SS Toluene-d8_MS	14.65	98	309846	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	120850	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.14%			
83) SS 1,2-DCB-d4_MS	19.75	152	122688	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.38%			
90) SS 2,5-DBT_MS	23.36	250	17585	9.26	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 23.16%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	104764	9.886	ug/L	100
3) chloromethane	3.19	50	97535	10.584	ug/L	100
4) vinyl chloride	3.34	62	50688	7.095	ug/L	100
5) bromomethane	3.99	94	60497	11.274	ug/L	98
6) chloroethane	4.11	64	58601	12.013	ug/L	98
7) trichlorofluoromethane	4.52	101	136522	11.584	ug/L	99
8) diethyl ether	5.02	59	63875	11.450	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	94286	12.062	ug/L	98
10) acrolein	5.27	56	3902	4.313	ug/L #	74
11) acetone	5.38	43	17944	4.342	ug/L	92
12) 1,1-dichloroethene	5.61	96	84084	12.259	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.77	59	32325	50.061	ug/L #	100
15) methylene chloride	6.55	84	91427	12.249	ug/L	96
16) carbon disulfide	6.57	76	222989	11.881	ug/L	98
17) acrylonitrile	6.81	53	29022	10.215	ug/L	98
18) Methyl-t-butyl ether(MTBE)	6.85	73	442551	21.031	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	81697	10.084	ug/L	96
20) hexane	7.29	57	106898	9.358	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	250738	9.893	ug/L	97
22) vinyl acetate	8.05	43	145728	14.747	ug/L	99
23) 1,1-dichloroethane	8.05	63	146249	9.936	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	230985	9.196	ug/L	97
25) 2,2-dichloropropane	9.25	77	124240	9.997	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	110682	9.490	ug/L	97
27) 2-butanone(MEK)	8.96	43	29336	8.563	ug/L	98
28) bromochloromethane	10.08	128	43996	10.289	ug/L	97
29) Tetrahydrofuran(THF)	10.15	42	18637	9.107	ug/L	99
30) chloroform	9.71	83	144451	9.831	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	126782	9.920	ug/L	99
33) carbon tetrachloride	11.17	117	109899	10.467	ug/L #	98
34) 1,1-dichloropropene	10.97	75	122422	9.624	ug/L	93
36) tert-amyl methyl ether(TAM	11.24	73	219873	9.745	ug/L	98
37) benzene	11.56	78	356984	9.969	ug/L	99

(#) = qualifier out of range (m) = manual integration
SA080608.D 5VID0806.M Tue Sep 11 15:12:27 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

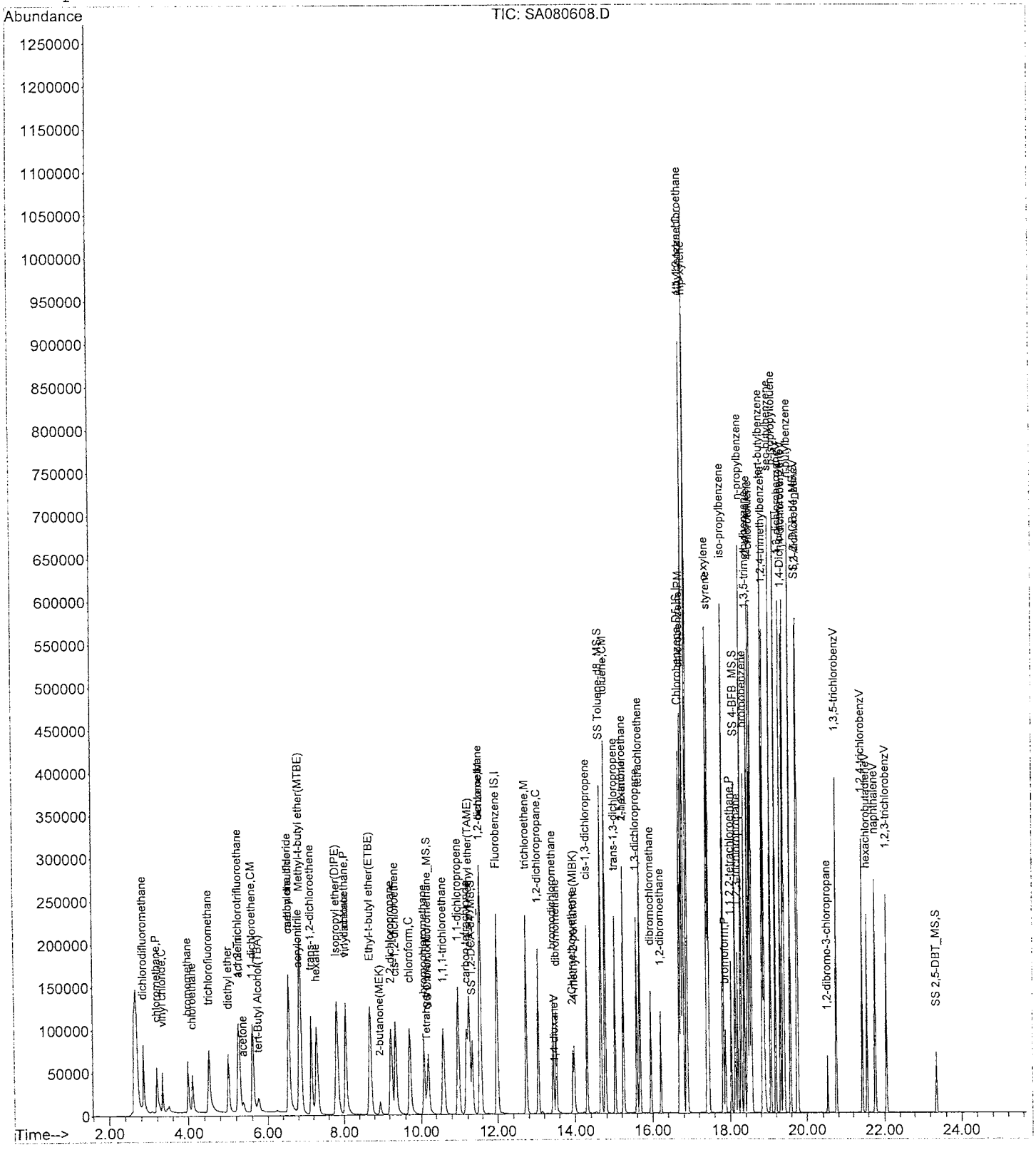
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	115520	9.856	ug/L		99
39)	trichloroethene	12.73	95	95604	10.070	ug/L		94
40)	1,2-dichloropropane	13.05	63	85183	9.720	ug/L		96
41)	1,4-dioxaneV	13.48	88	1778	19.951	ug/L	#	86
42)	dibromomethane	13.53	93	51822	10.207	ug/L	#	98
43)	bromodichloromethane	13.44	83	103517	9.933	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	33701	6.878	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	23714	8.391	ug/L		90
46)	cis-1,3-dichloropropene	14.30	75	124921	9.565	ug/L		92
49)	toluene	14.77	91	377743	9.923	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	117495	9.795	ug/L		93
51)	1,1,2-trichloroethane	15.25	83	59682	9.984	ug/L		98
52)	2-hexanone	15.25	43	41073	8.745	ug/L		96
53)	tetrachloroethene	15.67	166	99630	10.223	ug/L		97
54)	1,3-dichloropropane	15.59	76	126404	9.712	ug/L		94
55)	dibromochloromethane	15.95	129	74194	10.037	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	75271	9.882	ug/L	#	99
57)	chlorobenzene	16.74	112	264609	10.182	ug/L		99
58)	1,1,1,2-tetrachloroethane	16.78	131	87634	11.307	ug/L		98
59)	ethylbenzene	16.79	91	440040	10.023	ug/L		98
60)	mp-xylene	16.89	106	358565	20.460	ug/L		95
61)	o-xylene	17.41	106	171754	10.131	ug/L		95
62)	styrene	17.46	104	276307	9.416	ug/L		99
63)	bromoform	17.88	173	40931	9.874	ug/L	#	95
64)	iso-propylbenzene	17.83	105	408527	9.907	ug/L		98
67)	bromobenzene	18.38	156	110889	10.362	ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	80231	9.145	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	27289	9.489	ug/L		97
71)	n-propylbenzene	18.28	91	510400	9.866	ug/L		97
72)	2-chlorotoluene	18.51	91	311972	9.713	ug/L		96
73)	4-chlorotoluene	18.56	91	312660	9.632	ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	314307	8.547	ug/L		98
75)	tert-butylbenzene	18.84	119	325327	10.104	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	307042	8.102	ug/L		98
77)	sec-butylbenzene	19.06	105	449935	9.881	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	209179	10.399	ug/L		98
79)	p-isopropyltoluene	19.19	119	385722	9.872	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	209097	10.328	ug/L		96
81)	1,2-dichlorobenzeneV	19.77	146	192455	10.172	ug/L		96
82)	n-butylbenzene	19.58	91	317274	9.427	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	14627	8.618	ug/L		99
85)	1,3,5-trichlorobenzV	20.75	180	116460	9.637	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	97075	9.378	ug/L		98
87)	hexachlorobutadieneV	21.56	225	44655	9.529	ug/L		97
88)	naphthaleneV	21.76	128	225296	8.524	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	84046	9.287	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:14 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	322868	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	241334	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	133534	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73903	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.12%			
35) SS 1,2-DCA-d4_MS	11.32	65	88686	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.76%			
48) SS Toluene-d8_MS	14.65	98	313143	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.96%			
65) SS 4-BFB_MS	18.13	95	121929	9.83	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.28%			
83) SS 1,2-DCB-d4_MS	19.75	152	125727	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%			
90) SS 2,5-DBT_MS	23.36	250	44003	18.41	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 46.03%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	204235	19.363	ug/L	100
3) chloromethane	3.19	50	188088	20.507	ug/L	99
4) vinyl chloride	3.34	62	92845	13.057	ug/L	99
5) bromomethane	3.99	94	120563	22.573	ug/L	100
6) chloroethane	4.11	64	113330	23.342	ug/L	98
7) trichlorofluoromethane	4.52	101	264170	22.521	ug/L	99
8) diethyl ether	5.01	59	126776	22.832	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	184609	23.729	ug/L	97
10) acrolein	5.28	56	5136	5.704	ug/L	83
11) acetone	5.38	43	35268	15.335	ug/L	93
12) 1,1-dichloroethene	5.61	96	166261	24.353	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.77	59	65054	101.223	ug/L #	100
15) methylene chloride	6.55	84	179290	24.133	ug/L	96
16) carbon disulfide	6.57	76	446244	23.888	ug/L	99
17) acrylonitrile	6.81	53	57626	20.377	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	892529	42.614	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	161790	20.063	ug/L	97
20) hexane	7.29	57	207116	18.216	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	499965	19.820	ug/L	97
22) vinyl acetate	8.05	43	264329	26.874	ug/L	99
23) 1,1-dichloroethane	8.04	63	289368	19.752	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	460612	18.424	ug/L	97
25) 2,2-dichloropropane	9.25	77	245535	19.851	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	221170	19.052	ug/L	96
27) 2-butanone(MEK)	8.96	43	57507	16.866	ug/L	99
28) bromochloromethane	10.08	128	88910	20.891	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	37906	18.609	ug/L	98
30) chloroform	9.71	83	289180	19.774	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	253516	19.929	ug/L	99
33) carbon tetrachloride	11.17	117	227189	21.741	ug/L #	98
34) 1,1-dichloropropene	10.96	75	242922	19.187	ug/L	94
36) tert-amyl methyl ether(TAM	11.24	73	441059	19.640	ug/L	97
37) benzene	11.56	78	705667	19.800	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA080609.D 5VID0806.M Tue Sep 11 15:12:36 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	11.53	62	229347	19.660 ug/L	100
39)	trichloroethene	12.73	95	193280	20.455 ug/L	95
40)	1,2-dichloropropane	13.05	63	169672	19.452 ug/L	96
41)	1,4-dioxaneV	13.48	88	3217	36.268 ug/L #	88
42)	dibromomethane	13.53	93	103838	20.549 ug/L #	98
43)	bromodichloromethane	13.44	83	214102	20.641 ug/L	99
44)	2-Chloroethoxyethene	13.95	63	71719	14.706 ug/L	94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	48492	17.239 ug/L	94
46)	cis-1,3-dichloropropene	14.30	75	257798	19.833 ug/L	94
49)	toluene	14.77	91	757600	19.957 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	244542	20.443 ug/L	94
51)	1,1,2-trichloroethane	15.25	83	119684	20.078 ug/L	97
52)	2-hexanone	15.25	43	81786	17.462 ug/L	98
53)	tetrachloroethene	15.67	166	200566	20.638 ug/L	98
54)	1,3-dichloropropane	15.59	76	254930	19.642 ug/L	95
55)	dibromochloromethane	15.95	129	160422	19.976 ug/L #	99
56)	1,2-dibromoethane	16.22	107	153194	20.168 ug/L #	98
57)	chlorobenzene	16.74	112	533100	20.571 ug/L	98
58)	1,1,1,2-tetrachloroethane	16.78	131	184207	23.835 ug/L	98
59)	ethylbenzene	16.79	91	895701	20.459 ug/L	98
60)	mp-xylene	16.89	106	734159	42.008 ug/L	95
61)	o-xylene	17.41	106	346921	20.520 ug/L	96
62)	styrene	17.46	104	569142	19.450 ug/L	98
63)	bromoform	17.88	173	94076	19.875 ug/L #	95
64)	iso-propylbenzene	17.82	105	831978	20.233 ug/L	98
67)	bromobenzene	18.38	156	227167	20.616 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	159294	17.634 ug/L	98
69)	1,2,3-trichloropropane	18.20	110	56191	18.976 ug/L	95
71)	n-propylbenzene	18.28	91	1037490	19.476 ug/L	97
72)	2-chlorotoluene	18.51	91	639453	19.335 ug/L	96
73)	4-chlorotoluene	18.56	91	640894	19.176 ug/L	96
74)	1,3,5-trimethylbenzene	18.45	105	680691	17.976 ug/L	98
75)	tert-butylbenzene	18.84	119	661684	19.959 ug/L	97
76)	1,2,4-trimethylbenzene	18.89	105	668388	17.129 ug/L	98
77)	sec-butylbenzene	19.06	105	927281	19.777 ug/L	98
78)	1,3-dichlorobenzeneV	19.32	146	431025	20.810 ug/L	98
79)	p-isopropyltoluene	19.19	119	802110	19.938 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	428272	20.544 ug/L	97
81)	1,2-dichlorobenzeneV	19.78	146	397345	20.397 ug/L	98
82)	n-butylbenzene	19.58	91	656964	18.958 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.52	157	32453	18.569 ug/L	98
85)	1,3,5-trichlorobenzV	20.75	180	244917	19.682 ug/L	99
86)	1,2,4-trichlorobenzV	21.44	180	208669	19.578 ug/L	98
87)	hexachlorobutadieneV	21.56	225	92291	19.126 ug/L	96
88)	naphthaleneV	21.76	128	494463	18.169 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	180192	19.337 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

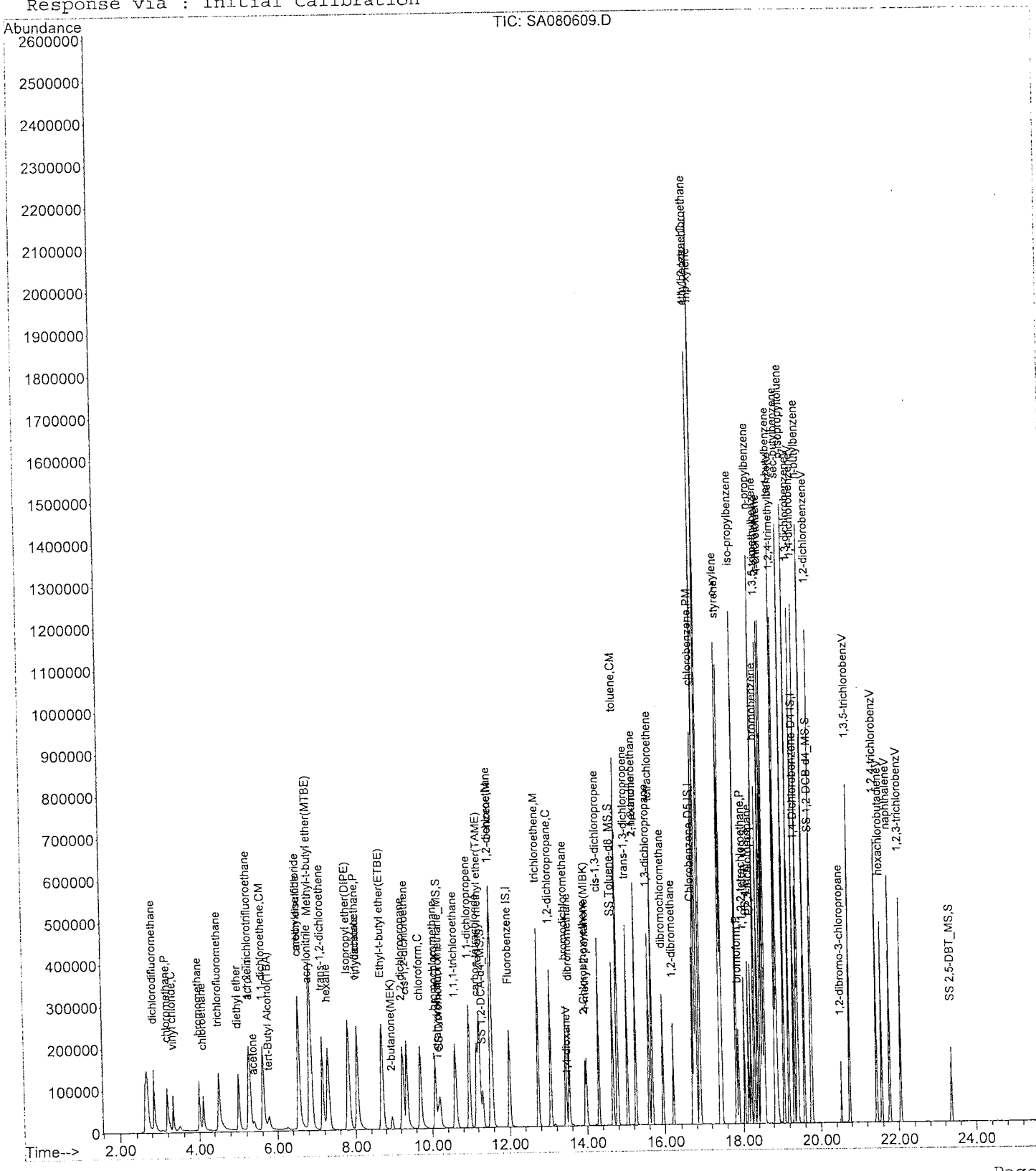
Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D
Acq On : 6 Aug 2012 12:39 pm
Sample : 20
Misc : x1; 5mL;
MS Integration Params: rteint.p
Quant Time: Aug 7 10:15 2012

Vial: 9
Operator: BAM
Inst : VOAMS5
Multiplr: 1.00

Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331102	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	250410	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	138371	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	76859	10.36 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.56%		
35) SS 1,2-DCA-d4_MS	11.33	65	90270	10.00 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.01%		
48) SS Toluene-d8_MS	14.65	98	318782	9.91 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%		
65) SS 4-BFB_MS	18.13	95	125982	9.79 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.87%		
83) SS 1,2-DCB-d4_MS	19.75	152	132181	10.34 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.38%		
90) SS 2,5-DBT_MS	23.36	250	146023	52.65 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 131.62%#		
Target Compounds					Qvalue
8) diethyl ether	5.01	59	324027	56.905 ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	473031	59.290 ug/L	98
11) acetone	5.38	43	89768	48.345 ug/L	94
12) 1,1-dichloroethene	5.61	96	423876	60.544 ug/L	92
13) tert-Butyl Alcohol(TBA)	5.78	59	164913	250.220 ug/L #	100
15) methylene chloride	6.55	84	454435	59.648 ug/L	96
16) carbon disulfide	6.57	76	1159534	60.528 ug/L	99
17) acrylonitrile	6.81	53	146222	50.421 ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	2293661	106.789 ug/L	97
19) trans-1,2-dichloroethene	7.15	96	424858	51.376 ug/L	96
20) hexane	7.29	57	534314	45.824 ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	1297148	50.144 ug/L	98
23) 1,1-dichloroethane	8.04	63	744164	49.533 ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	1203991	46.961 ug/L	97
25) 2,2-dichloropropane	9.25	77	636475	50.178 ug/L	98
26) cis-1,2-dichloroethene	9.36	61	574724	48.277 ug/L	97
27) 2-butanone(MEK)	8.96	43	146064	41.772 ug/L	99
28) bromochloromethane	10.08	128	231317	52.999 ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	95804	45.864 ug/L	100
30) chloroform	9.71	83	749236	49.957 ug/L	98
32) 1,1,1-trichloroethane	10.59	97	674477	51.702 ug/L	99
33) carbon tetrachloride	11.17	117	616213	57.502 ug/L	98
34) 1,1-dichloropropene	10.97	75	631116	48.608 ug/L	95
36) tert-amyl methyl ether(TAM	11.24	73	1170905	50.843 ug/L	97
37) benzene	11.56	78	1848728	50.582 ug/L	98
38) 1,2-dichloroethane	11.53	62	587726	49.128 ug/L	100
39) trichloroethene	12.73	95	501409	51.744 ug/L	93
40) 1,2-dichloropropane	13.05	63	443101	49.535 ug/L	97
42) dibromomethane	13.53	93	272163	52.519 ug/L #	98
43) bromodichloromethane	13.44	83	580083	54.533 ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.98	58	127298	44.130 ug/L	91
46) cis-1,3-dichloropropene	14.30	75	691448	51.871 ug/L	95
49) toluene	14.77	91	1995475	50.661 ug/L	98

(#) = qualifier out of range (m) = manual integration
SA080610.D 5VID0806.M Tue Sep 11 15:12:44 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

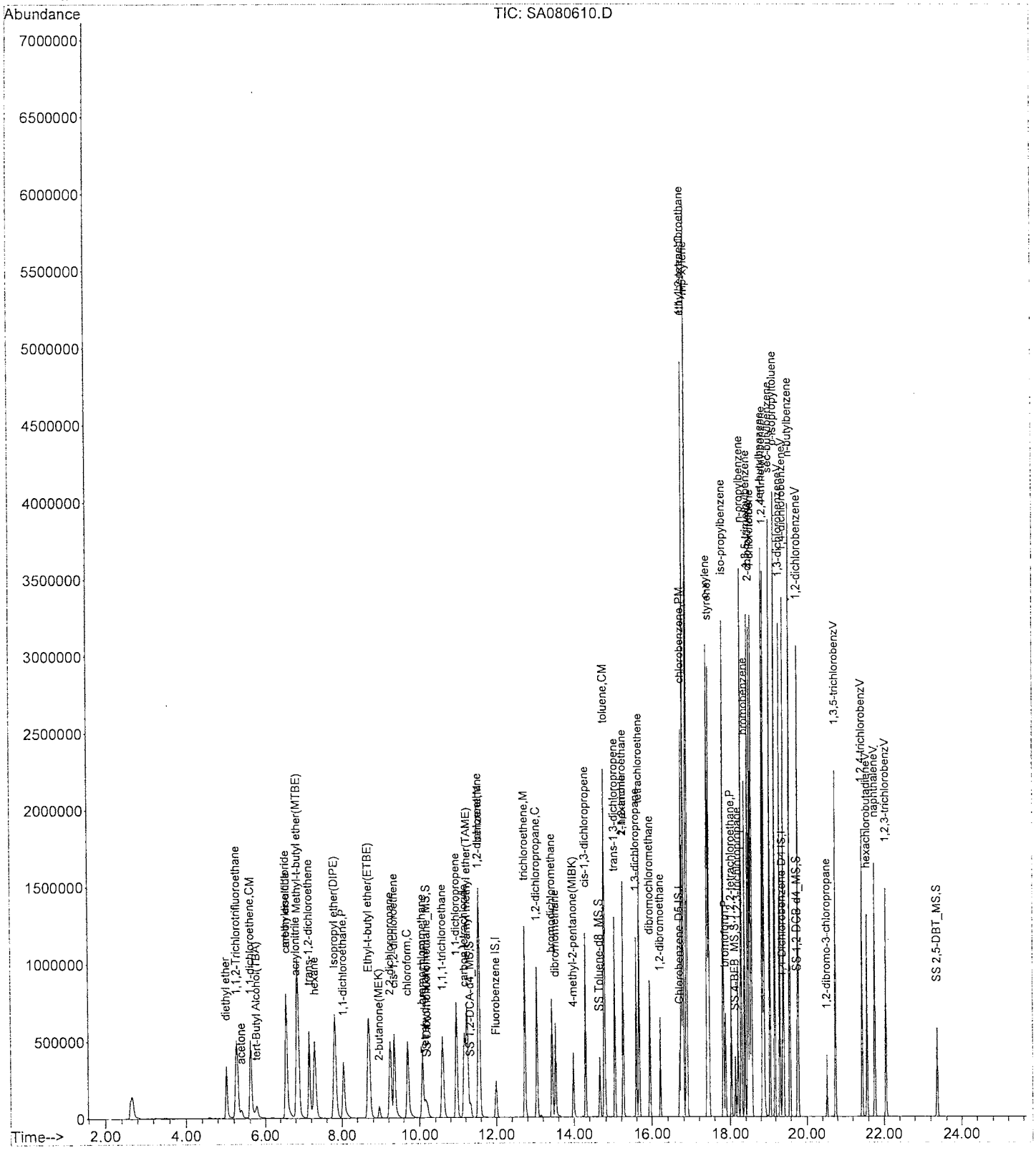
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	674089	54.308	ug/L		96
51)	1,1,2-trichloroethane	15.25	83	314320	50.818	ug/L		97
52)	2-hexanone	15.25	43	217045	44.661	ug/L		99
53)	tetrachloroethene	15.67	166	532594	52.817	ug/L		99
54)	1,3-dichloropropane	15.60	76	670112	49.759	ug/L		97
55)	dibromochloromethane	15.95	129	463298	52.872	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	408417	51.821	ug/L	#	98
57)	chlorobenzene	16.74	112	1424693	52.982	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.79	131	518188	64.619	ug/L		99
59)	ethylbenzene	16.79	91	2401851	52.873	ug/L		97
60)	mp-xylene	16.89	106	1987578	109.606	ug/L		93
61)	o-xylene	17.41	106	932780	53.174	ug/L		95
62)	styrene	17.46	104	1542129	50.792	ug/L		97
63)	bromoform	17.88	173	282056	53.254	ug/L		96
64)	iso-propylbenzene	17.83	105	2243422	52.581	ug/L		98
67)	bromobenzene	18.38	156	615871	53.937	ug/L		93
68)	1,1,2,2-tetrachloroethane	18.03	83	428345	45.762	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	147834	48.180	ug/L		95
71)	n-propylbenzene	18.28	91	2764917	50.090	ug/L		96
72)	2-chlorotoluene	18.51	91	1701528	49.651	ug/L		95
73)	4-chlorotoluene	18.56	91	1721385	49.704	ug/L		95
74)	1,3,5-trimethylbenzene	18.46	105	1938811	49.411	ug/L		97
75)	tert-butylbenzene	18.84	119	1801252	52.433	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	1946861	48.148	ug/L		98
77)	sec-butylbenzene	19.06	105	2518151	51.829	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	1174081	54.704	ug/L		97
79)	p-isopropyltoluene	19.19	119	2202559	52.835	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	1167232	54.035	ug/L		94
81)	1,2-dichlorobenzeneV	19.77	146	1083413	53.670	ug/L		94
82)	n-butylbenzene	19.58	91	1805340	50.276	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	94583	52.227	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	680226	52.754	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	576646	52.211	ug/L		99
87)	hexachlorobutadieneV	21.56	225	254217	50.842	ug/L		97
88)	naphthaleneV	21.76	128	1389617	49.275	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	498022	51.575	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:17:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

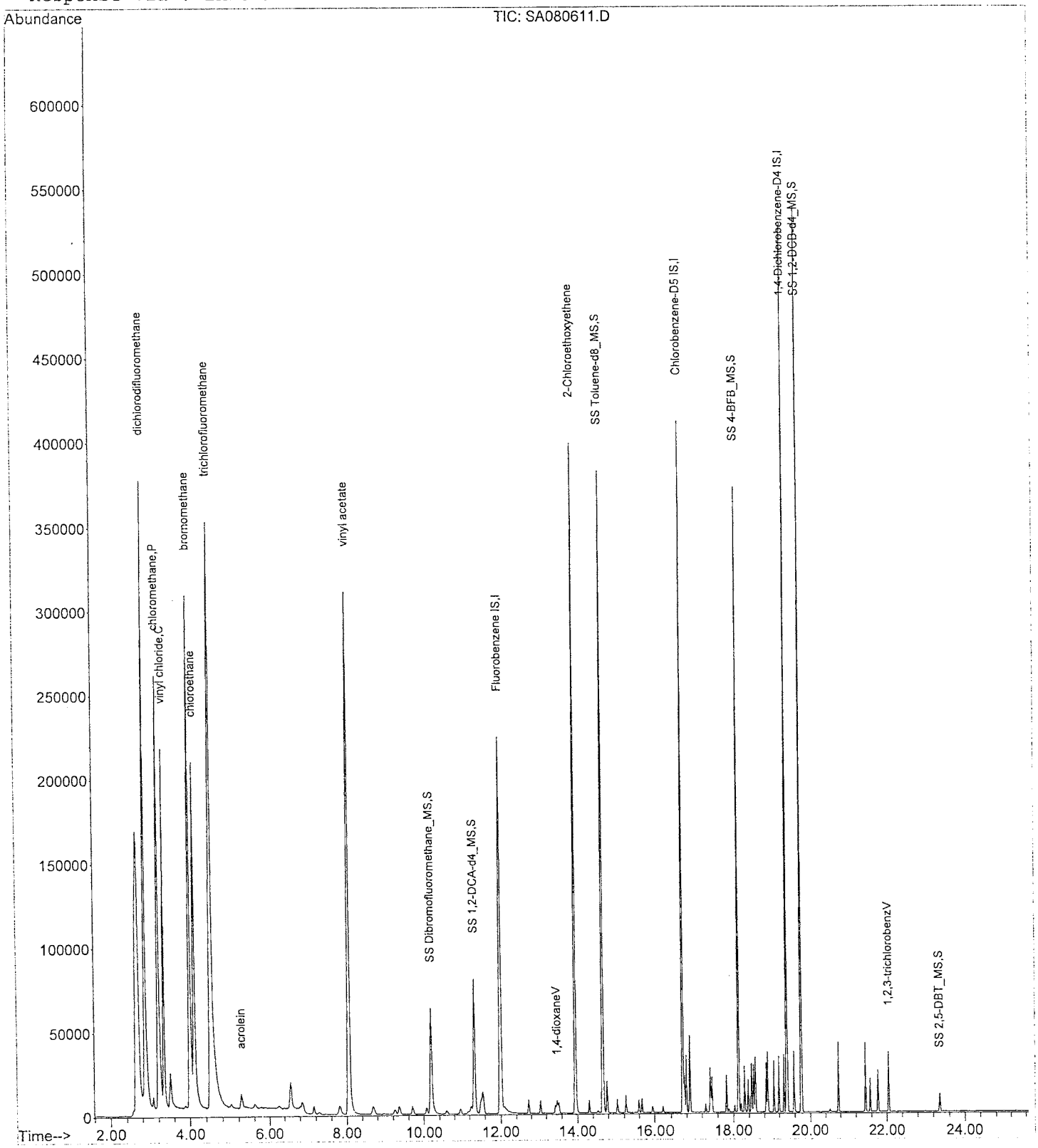
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	313742	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233790	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124513	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	71405	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.54%			
35) SS 1,2-DCA-d4_MS	11.33	65	86445	10.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.07%			
48) SS Toluene-d8_MS	14.65	98	304108	10.12	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.21%			
65) SS 4-BFB_MS	18.13	95	116323	9.68	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.79%			
83) SS 1,2-DCB-d4_MS	19.75	152	116932	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	2847	3.94	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 9.86%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	504172	49.189	ug/L	100
3) chloromethane	3.19	50	468249	52.537	ug/L	99
4) vinyl chloride	3.33	62	229297	33.185	ug/L	100
5) bromomethane	3.99	94	315852	60.858	ug/L	98
6) chloroethane	4.11	64	282219	59.819	ug/L	98
7) trichlorofluoromethane	4.52	101	661686	58.052	ug/L	99
10) acrolein	5.27	56	14489	16.558	ug/L	88
22) vinyl acetate	8.05	43	764933	80.032	ug/L	100
41) 1,4-dioxaneV	13.48	88	7694m	89.265	ug/L	
44) 2-Chloroethoxyethene	13.95	63	188360	39.746	ug/L	96
89) 1,2,3-trichlorobenzV	22.05	180	12069	1.389	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331654	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	253138	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142723	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	76563	10.30 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.99%		
35) SS 1,2-DCA-d4_MS	11.33	65	88376	9.77 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.75%		
48) SS Toluene-d8_MS	14.66	98	323672	9.95 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%		
65) SS 4-BFB_MS	18.13	95	128735	9.89 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.93%		
83) SS 1,2-DCB-d4_MS	19.75	152	133827	10.15 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%		
90) SS 2,5-DBT_MS	23.36	250	307494	104.50 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 261.26%#		
Target Compounds					Qvalue
8) diethyl ether	5.02	59	653626	114.598 ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.27	101	954722	119.466 ug/L	97
11) acetone	5.38	43	192085	111.158 ug/L	96
12) 1,1-dichloroethene	5.61	96	861104	122.790 ug/L	91
13) tert-Butyl Alcohol(TBA)	5.83	59	340440	515.686 ug/L #	100
15) methylene chloride	6.55	84	916932	120.154 ug/L	95
16) carbon disulfide	6.57	76	2408564	125.518 ug/L	99
17) acrylonitrile	6.82	53	294486	101.376 ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	4599642	213.795 ug/L	96
19) trans-1,2-dichloroethene	7.15	96	877469	105.931 ug/L	95
20) hexane	7.29	57	1116565	95.600 ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	2642544	101.984 ug/L	98
23) 1,1-dichloroethane	8.04	63	1519610	100.979 ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	2473473	96.315 ug/L	97
25) 2,2-dichloropropane	9.25	77	1346660	105.990 ug/L	100
26) cis-1,2-dichloroethene	9.36	61	1165887	97.773 ug/L	96
27) 2-butanone(MEK)	8.96	43	305075	87.102 ug/L	99
28) bromochloromethane	10.08	128	477487	109.220 ug/L	94
29) Tetrahydrofuran(THF)	10.15	42	197413	94.349 ug/L	100
30) chloroform	9.71	83	1540866	102.570 ug/L	99
32) 1,1,1-trichloroethane	10.59	97	1387099	106.151 ug/L	99
33) carbon tetrachloride	11.17	117	1291747	120.338 ug/L	99
34) 1,1-dichloropropene	10.97	75	1294359	99.524 ug/L	96
36) tert-amyl methyl ether(TAM	11.24	73	2428997	105.296 ug/L	97
37) benzene	11.56	78	3844569	105.013 ug/L	97
38) 1,2-dichloroethane	11.53	62	1175844	98.125 ug/L	99
39) trichloroethene	12.73	95	1052972	108.483 ug/L	93
40) 1,2-dichloropropane	13.05	63	911141	101.688 ug/L	98
42) dibromomethane	13.53	93	563981	108.651 ug/L	97
43) bromodichloromethane	13.44	83	1220579	114.555 ug/L	99
45) 4-methyl-2-pentanone(MIBK)	13.99	58	267008	92.408 ug/L	93
46) cis-1,3-dichloropropene	14.30	75	1467654	109.917 ug/L	97
49) toluene	14.77	91	4208033	105.681 ug/L	98

(#) = qualifier out of range (m) = manual integration
SA080612.D 5VID0806.M Tue Sep 11 15:13:02 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

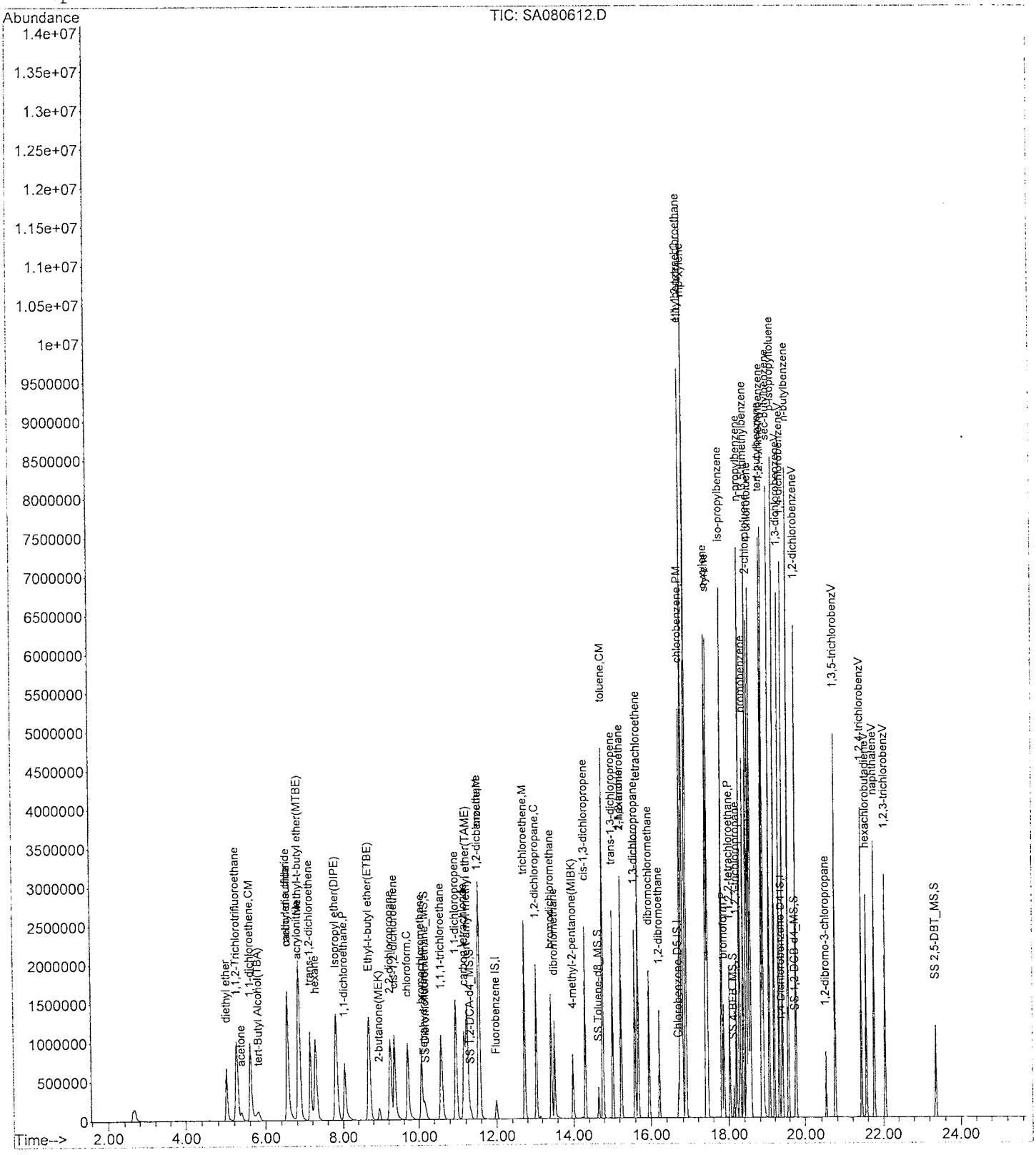
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	1445331	115.189	ug/L		97
51)	1,1,2-trichloroethane	15.25	83	669054	107.004	ug/L		97
52)	2-hexanone	15.25	43	442409	90.052	ug/L		99
53)	tetrachloroethene	15.67	166	1140843	111.917	ug/L		99
54)	1,3-dichloropropane	15.60	76	1394543	102.436	ug/L		100
55)	dibromochloromethane	15.95	129	1023813	113.764	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	867603	108.896	ug/L	#	98
57)	chlorobenzene	16.74	112	3018005	111.025	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	1092453	134.763	ug/L		99
59)	ethylbenzene	16.79	91	4993389	108.737	ug/L		97
60)	mp-xylene	16.89	106	4054705	221.188	ug/L		92
61)	o-xylene	17.42	106	1988257	112.121	ug/L		94
62)	styrene	17.46	104	3286856	107.090	ug/L		97
63)	bromoform	17.89	173	635608	115.999	ug/L		97
64)	iso-propylbenzene	17.83	105	4706635	109.125	ug/L		97
67)	bromobenzene	18.38	156	1319756	112.059	ug/L		91
68)	1,1,2,2-tetrachloroethane	18.03	83	884728	91.637	ug/L		98
69)	1,2,3-trichloropropane	18.21	110	315513	99.692	ug/L		94
71)	n-propylbenzene	18.29	91	5778337	101.490	ug/L		95
72)	2-chlorotoluene	18.51	91	3549325	100.412	ug/L		95
73)	4-chlorotoluene	18.56	91	3633211	101.707	ug/L		94
74)	1,3,5-trimethylbenzene	18.46	105	4166312	102.942	ug/L		97
75)	tert-butylbenzene	18.84	119	3776172	106.569	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	4202148	100.755	ug/L		97
77)	sec-butylbenzene	19.06	105	5204067	103.846	ug/L		97
78)	1,3-dichlorobenzeneV	19.32	146	2521009	113.880	ug/L		95
79)	p-isopropyltoluene	19.19	119	4569773	106.278	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	2517031	112.968	ug/L	#	92
81)	1,2-dichlorobenzeneV	19.78	146	2312287	111.053	ug/L	#	93
82)	n-butylbenzene	19.58	91	3766931	101.705	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.52	157	202582	108.452	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	1467245	110.320	ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	1247600	109.516	ug/L		98
87)	hexachlorobutadieneV	21.56	225	553942	107.408	ug/L		97
88)	naphthaleneV	21.76	128	3000156	103.141	ug/L		100
89)	1,2,3-trichlorobenzV	22.05	180	1066196	107.048	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:19 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:19:25 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

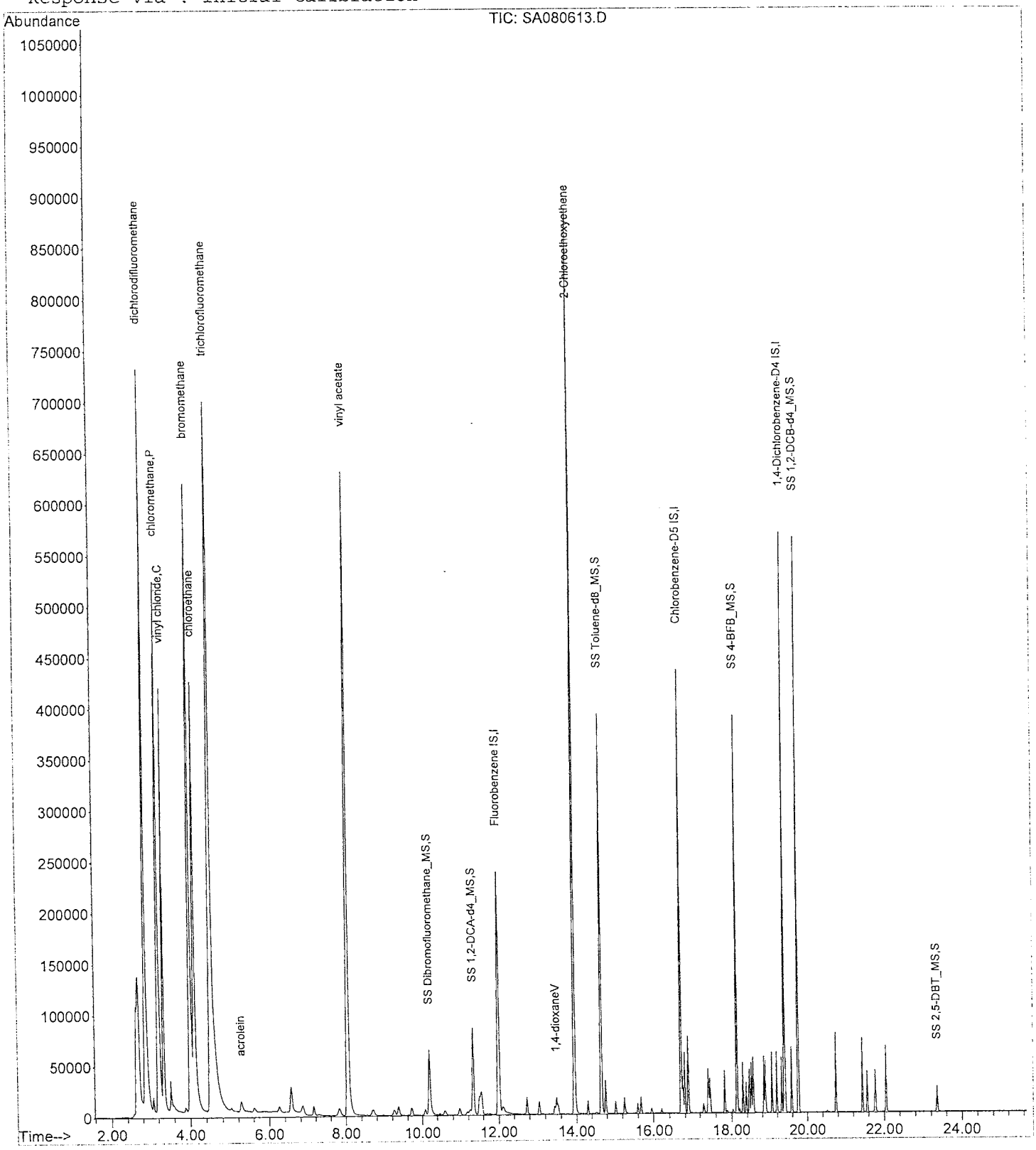
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	338403	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248910	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130705	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73710	9.72	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.18%			
35) SS 1,2-DCA-d4_MS	11.32	65	92429	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.19%			
48) SS Toluene-d8_MS	14.65	98	324602	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
65) SS 4-BFB_MS	18.13	95	122535	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.76%			
83) SS 1,2-DCB-d4_MS	19.75	152	122462	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.40%			
90) SS 2,5-DBT_MS	23.36	250	6402	5.18	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 12.94%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	1096182	99.154	ug/L	100
3) chloromethane	3.19	50	978455	101.782	ug/L	99
4) vinyl chloride	3.33	62	460879	61.839	ug/L	99
5) bromomethane	3.99	94	692398	123.689	ug/L	99
6) chloroethane	4.10	64	602931	118.483	ug/L	98
7) trichlorofluoromethane	4.52	101	1413521	114.975	ug/L	100
10) acrolein	5.27	56	18699	19.812	ug/L	88
22) vinyl acetate	8.05	43	1555483	150.885	ug/L	99
41) 1,4-dioxaneV	13.48	88	15891m	170.930	ug/L	
44) 2-Chloroethoxyethene	13.95	63	421679	82.494	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:20 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	327192	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	254244	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142553	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	76305	10.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.04%			
35) SS 1,2-DCA-d4_MS	11.33	65	87322	9.79	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.90%			
48) SS Toluene-d8_MS	14.66	98	320954	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.23%			
65) SS 4-BFB_MS	18.13	95	127058	9.72	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.22%			
83) SS 1,2-DCB-d4_MS	19.76	152	133877	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	690077	231.23	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 578.08%#			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	1309272	232.680	ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.26	101	1905415	241.680	ug/L	97
11) acetone	5.39	43	368713	222.842	ug/L	94
12) 1,1-dichloroethene	5.61	96	1723985	249.185	ug/L	90
13) tert-Butyl Alcohol(TBA)	5.89	59	681225m	1045.966	ug/L	
15) methylene chloride	6.54	84	1823761	242.243	ug/L	94
16) carbon disulfide	6.57	76	4805220	253.831	ug/L	99
17) acrylonitrile	6.82	53	583465	203.596	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	9151982	431.193	ug/L	96
19) trans-1,2-dichloroethene	7.15	96	1803073	220.641	ug/L	93
20) hexane	7.29	57	2219415	192.617	ug/L	98
21) Isopropyl ether(DIPE)	7.83	45	5293433	207.076	ug/L	98
23) 1,1-dichloroethane	8.04	63	3068923	206.714	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	5043568	199.071	ug/L	96
25) 2,2-dichloropropane	9.25	77	2709552	216.166	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	2355579	200.235	ug/L	95
27) 2-butanone(MEK)	8.97	43	614168	177.743	ug/L	98
28) bromochloromethane	10.08	128	997240	231.218	ug/L	92
29) Tetrahydrofuran(THF)	10.15	42	401919	194.708	ug/L	99
30) chloroform	9.71	83	3148637	212.453	ug/L	99
32) 1,1,1-trichloroethane	10.59	97	2884369	223.743	ug/L	98
33) carbon tetrachloride	11.17	117	2717438	256.607	ug/L	99
34) 1,1-dichloropropene	10.97	75	2649160	206.473	ug/L	97
36) tert-amyl methyl ether(TAM	11.25	73	5062883	222.467	ug/L	95
37) benzene	11.56	78	7870492	217.912	ug/L	97
38) 1,2-dichloroethane	11.54	62	2313244	195.673	ug/L	99
39) trichloroethene	12.73	95	2205648	230.336	ug/L	92
40) 1,2-dichloropropane	13.05	63	1880341	212.718	ug/L	98
42) dibromomethane	13.53	93	1161373	226.789	ug/L	97
43) bromodichloromethane	13.44	83	2567154	244.221	ug/L	99
45) 4-methyl-2-pentanone(MIBK)	14.00	58	542993	190.486	ug/L	94
46) cis-1,3-dichloropropene	14.31	75	3067826	232.892	ug/L	97
49) toluene	14.77	91	8459139	211.520	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA080614.D 5VID0806.M Tue Sep 11 15:13:20 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

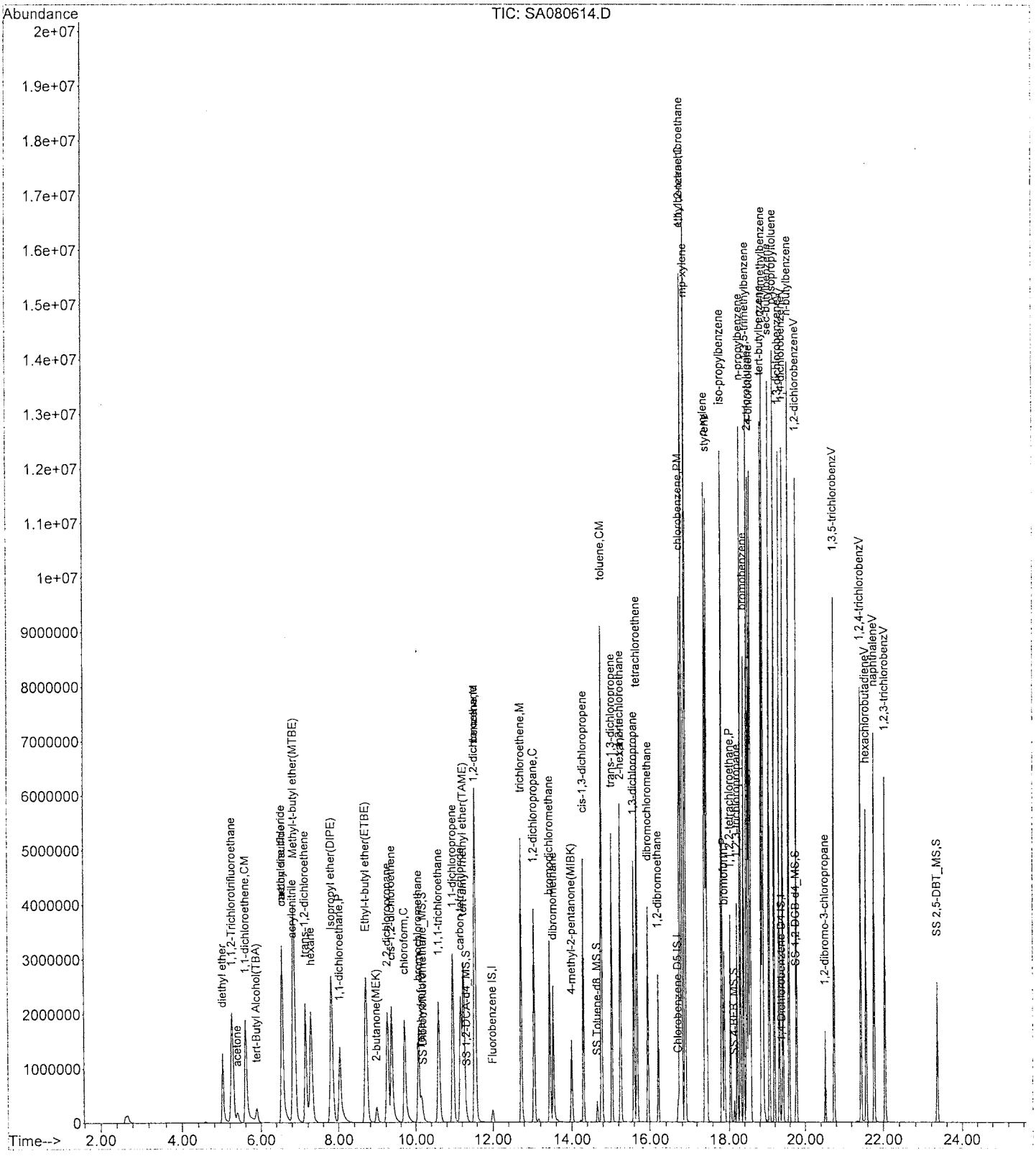
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	trans-1,3-dichloropropene	15.04	75	2961679	235.010	ug/L	96
51)	1,1,2-trichloroethane	15.25	83	1387610	220.959	ug/L	95
52)	2-hexanone	15.27	43	860543	174.401	ug/L	97
53)	tetrachloroethene	15.67	166	2335767	228.142	ug/L	97
54)	1,3-dichloropropane	15.60	76	2860234	209.184	ug/L	96
55)	dibromochloromethane	15.95	129	2166303	237.976	ug/L #	99
56)	1,2-dibromoethane	16.22	107	1774947	221.812	ug/L #	99
57)	chlorobenzene	16.75	112	6069844	222.323	ug/L	95
58)	1,1,1,2-tetrachloroethane	16.79	131	1994554	244.974	ug/L	99
59)	ethylbenzene	16.80	91	8860415	192.107	ug/L	95
60)	mp-xylene	16.89	106	6772390	367.834	ug/L	90
61)	o-xylene	17.42	106	3928577	220.575	ug/L	92
62)	styrene	17.46	104	6416758	208.157	ug/L	96
63)	bromoform	17.89	173	1345493	242.038	ug/L #	97
64)	iso-propylbenzene	17.83	105	8878323	204.951	ug/L	96
67)	bromobenzene	18.38	156	2668277	226.830	ug/L #	89
68)	1,1,2,2-tetrachloroethane	18.04	83	1754702	181.962	ug/L	99
69)	1,2,3-trichloropropane	18.21	110	637917	201.802	ug/L	91
71)	n-propylbenzene	18.29	91	10490556	184.475	ug/L	91
72)	2-chlorotoluene	18.52	91	6867562	194.518	ug/L	93
73)	4-chlorotoluene	18.56	91	6742966	188.987	ug/L	93
74)	1,3,5-trimethylbenzene	18.47	105	7908227	195.631	ug/L	97
75)	tert-butylbenzene	18.85	119	7044956	199.056	ug/L	97
76)	1,2,4-trimethylbenzene	18.89	105	7844188	188.304	ug/L	97
77)	sec-butylbenzene	19.06	105	9402855	187.855	ug/L #	96
78)	1,3-dichlorobenzeneV	19.32	146	4815825	217.802	ug/L #	95
79)	p-isopropyltoluene	19.19	119	8104355	188.705	ug/L	96
80)	1,4-dichlorobenzeneV	19.42	146	4783293	214.938	ug/L #	91
81)	1,2-dichlorobenzeneV	19.78	146	4452379	214.090	ug/L #	92
82)	n-butylbenzene	19.58	91	6890529	186.262	ug/L #	95
84)	1,2-dibromo-3-chloropropan	20.52	157	426363	228.525	ug/L	95
85)	1,3,5-trichlorobenzV	20.75	180	2960463	222.859	ug/L	96
86)	1,2,4-trichlorobenzV	21.44	180	2597910	228.319	ug/L	97
87)	hexachlorobutadieneV	21.56	225	1153357	223.900	ug/L	97
88)	naphthaleneV	21.77	128	6237033	214.675	ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	2249114	226.085	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:21 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:21:48 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

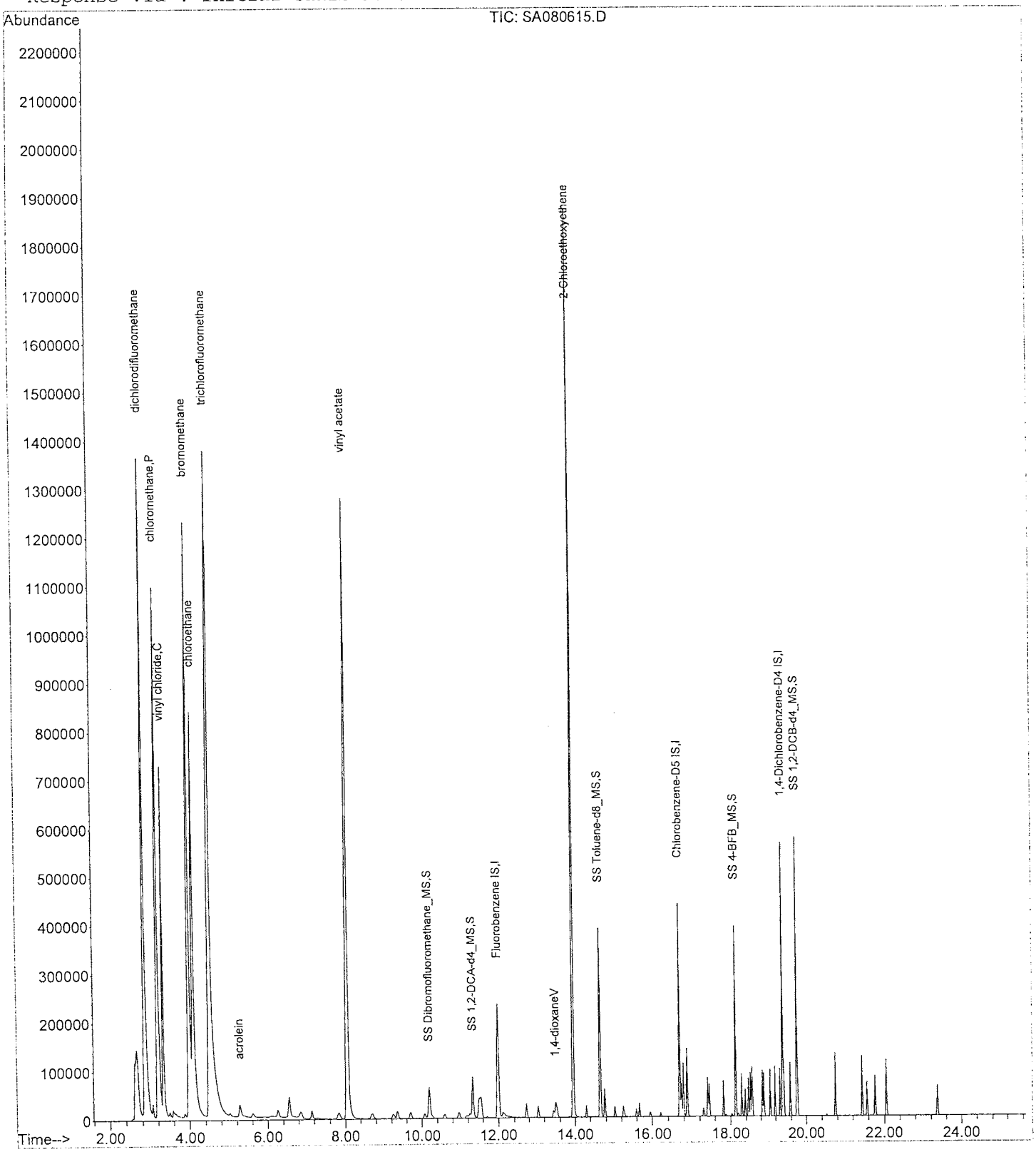
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	336112	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251329	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130239	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73409	9.74	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.44%			
35) SS 1,2-DCA-d4_MS	11.32	65	92313	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.75%			
48) SS Toluene-d8_MS	14.65	98	321368	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%			
65) SS 4-BFB_MS	18.13	95	123550	9.56	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.63%			
83) SS 1,2-DCB-d4_MS	19.75	152	122712	10.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.97%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	2215576	201.773	ug/L	99
3) chloromethane	3.19	50	1949346	204.160	ug/L	99
4) vinyl chloride	3.32	62	847787	114.529	ug/L	100
5) bromomethane	3.98	94	1417928	255.022	ug/L	99
6) chloroethane	4.10	64	1215808	240.549	ug/L	98
7) trichlorofluoromethane	4.51	101	2821940	231.100	ug/L	99
10) acrolein	5.27	56	45900	48.964	ug/L	88
22) vinyl acetate	8.05	43	3161029	308.715	ug/L	98
41) 1,4-dioxaneV	13.49	88	32796	355.171	ug/L	90
44) 2-Chloroethoxyethene	13.95	63	929800	183.138	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:22 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:24:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

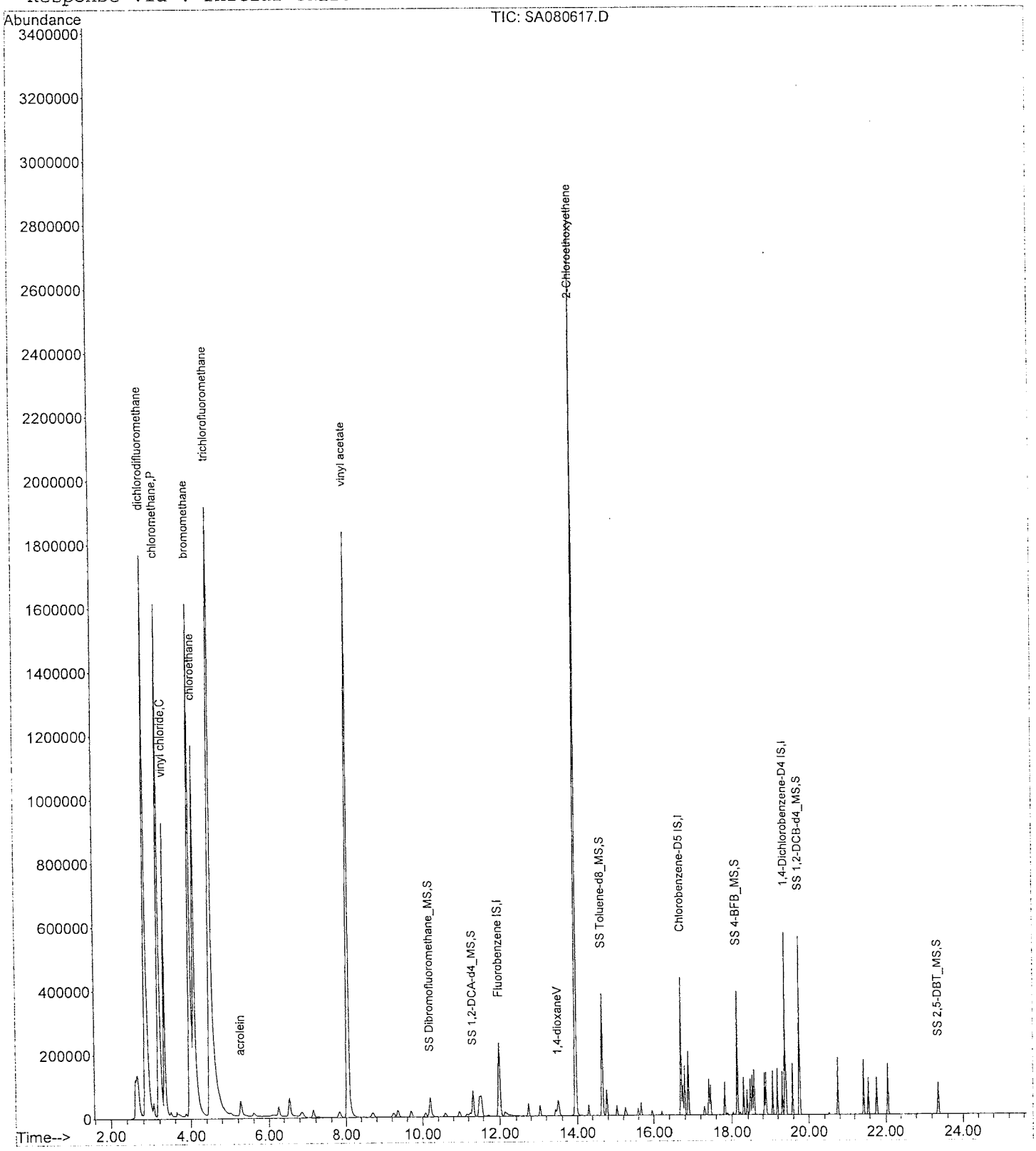
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	330386	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248192	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130620	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70329	9.50	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.97%			
35) SS 1,2-DCA-d4_MS	11.32	65	88502	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.26%			
48) SS Toluene-d8_MS	14.65	98	315982	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%			
65) SS 4-BFB_MS	18.13	95	122190	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.77%			
83) SS 1,2-DCB-d4_MS	19.75	152	121780	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			
90) SS 2,5-DBT_MS	23.36	250	25597	12.11	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 30.27%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.84	85	3293119	305.103	ug/L	99
3) chloromethane	3.19	50	2854514	304.142	ug/L	99
4) vinyl chloride	3.32	62	1117345	153.560	ug/L	100
5) bromomethane	3.98	94	2059715	376.872	ug/L	99
6) chloroethane	4.09	64	1776518	357.578	ug/L	98
7) trichlorofluoromethane	4.51	101	4062214	338.437	ug/L	99
10) acrolein	5.27	56	81169	88.088	ug/L	91
22) vinyl acetate	8.05	43	4614823	458.508	ug/L	97
41) 1,4-dioxaneV	13.50	88	50371	554.957	ug/L	91
44) 2-Chloroethoxyethene	13.95	63	1457963	292.144	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:24 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:25:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

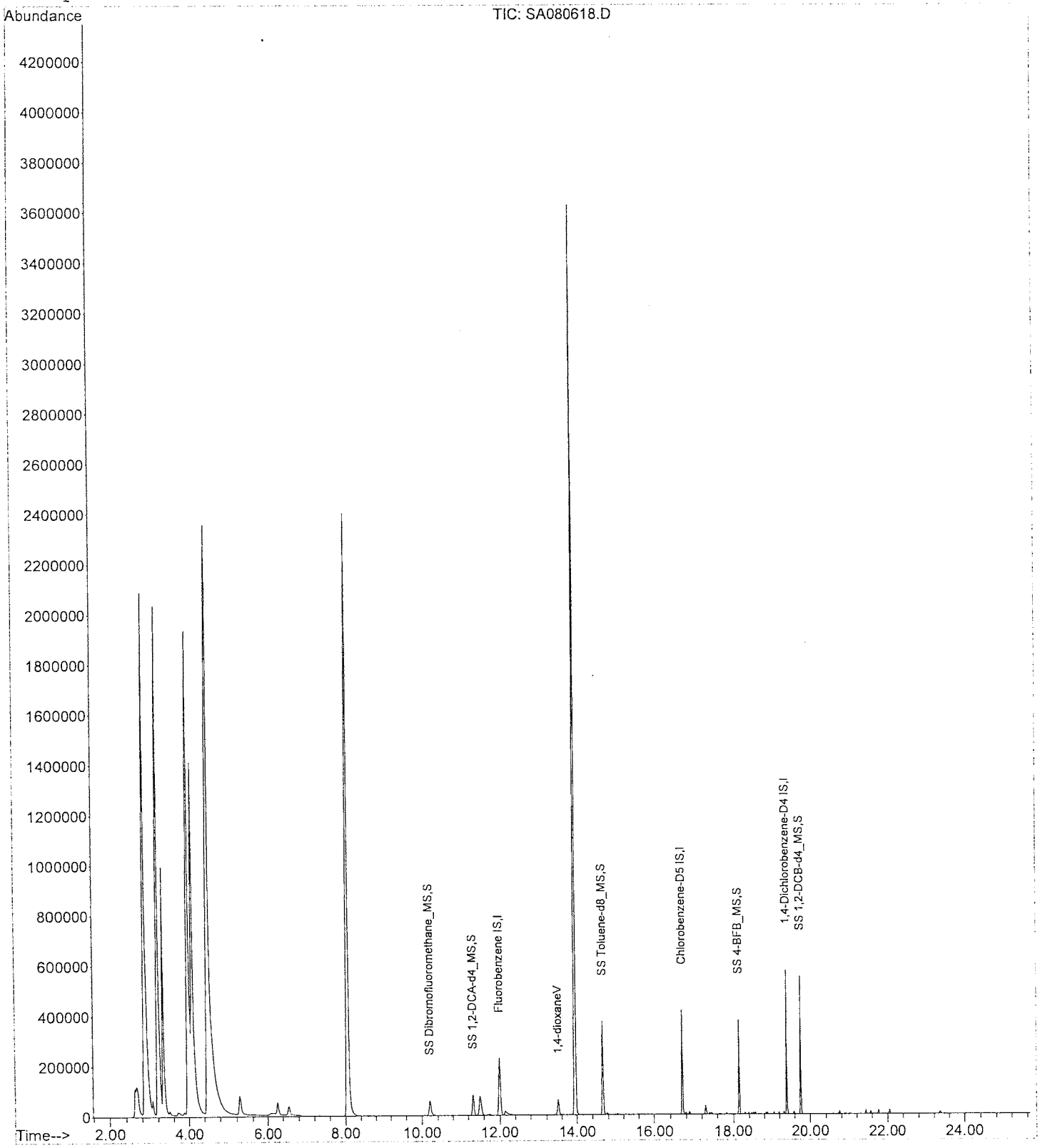
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	332477	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251955	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128566	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70172	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.16%			
35) SS 1,2-DCA-d4_MS	11.32	65	89597	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.85%			
48) SS Toluene-d8_MS	14.66	98	321541	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
65) SS 4-BFB_MS	18.13	95	122225	9.44	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	121004	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.86%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
41) 1,4-dioxaneV	13.51	88	68747	752.649	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA080618.D 5VID0806.M Tue Sep 11 15:13:56 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:25 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Volatile Organics 8260B

Sample and QC Data

VOAMS5 Analysis Run Log

IS/SS ID= V- 3975
Standard ID= V- 3968A
Analyst: Blue
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3970 (G) 3963 (L)
Date: 9/4/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	SA090401	BFB					VOCMS	5V1D0806	AutoFind		✓
2		STD2					VOCMS				✓
3		STD20					VOCMS				✓
4		MB					VOCMS				✓
5		113653.03		✓		x1	VOCMS				
6		.05		✓			VOCMS				
7		.06		✓			VOCMS				
8		.07		✓			VOCMS				
9		.07MS		✓			VOCMS				
10		.07MSD		✓			VOCMS				
11		.08		✓			VOCMS				
12		.09		✓			VOCMS				
13		.10		✓			VOCMS				
14		.11		✓			VOCMS				
15		.12		✓			VOCMS				
16		.13		✓			VOCMS				
17		.18		✓			VOCMS				
18		.16		✓			VOCMS				
19		.17		✓			VOCMS				
20		LCS20					VOCMS		DCDFM, VA, 22DCP↓		✓
21		LCSD20					VOCMS		DCDFM, VA↓		✓
							VOCMS				
							VOCMS				
							VOCMS				
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Samples removed from autosampler, order and pH verified by Blue 9/5/12 1-21

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\SEPT0412\SA090401.D
Tune Time : 4 Sep 2012 9:04 am

Daily Calibration File : C:\MSDCHEM\1\DATA\SEPT0412\SA090403.D

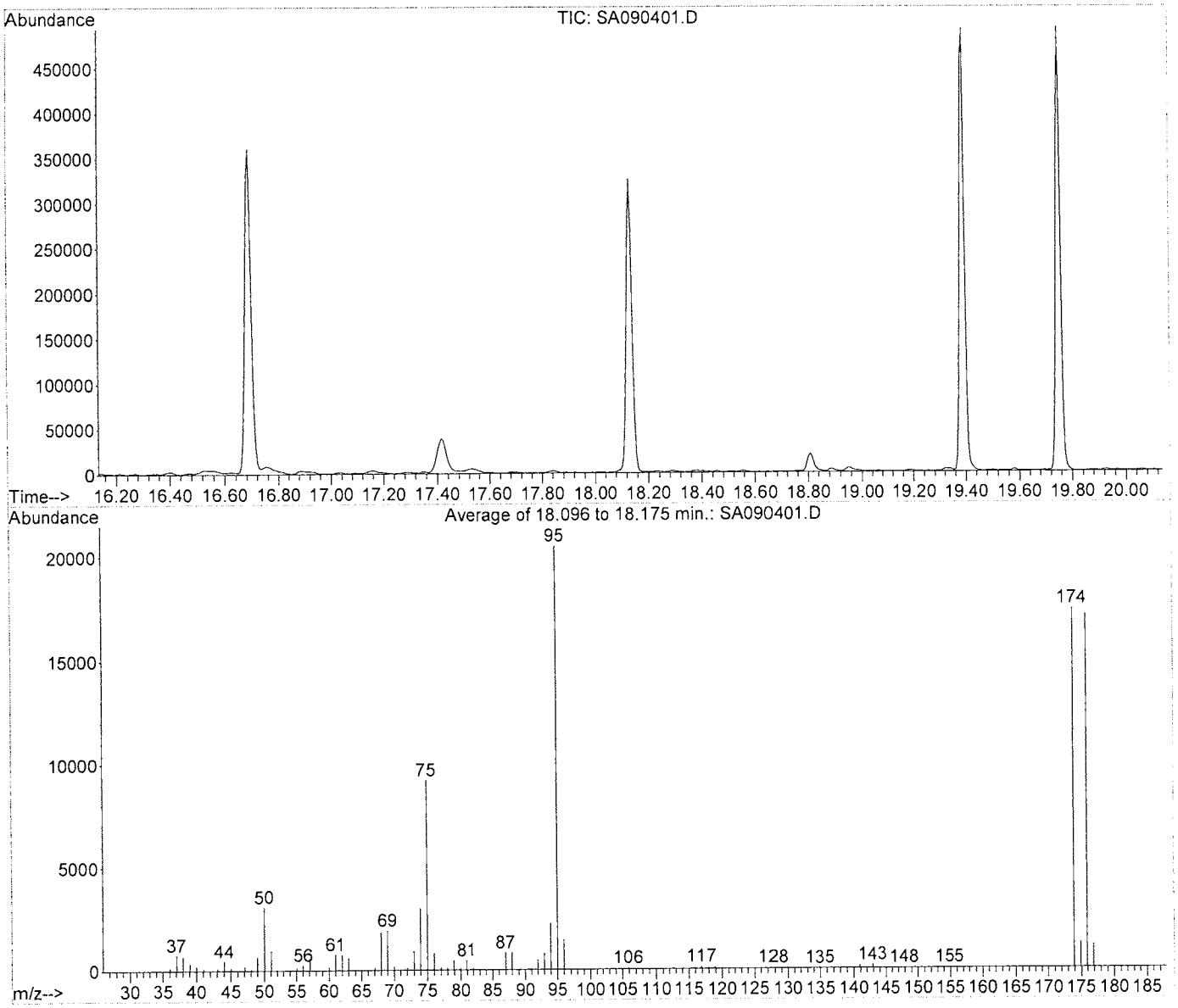
						278915	213418	121534

File	Sample	Surrogate Recovery %				Internal Standard Responses		
SA090402.D	STD 2	103	93	101	99	266930	201991	111585
		100	21*					
SA090403.D	STD 20	104	91	100	100	278915	213418	121534
		99	51*					
SA090404.D	MB	103	93	100	96	274000	208277	109756
		101	20*					
SA090405.D	113653.03	105	93	99	96	259429	199945	105127
		100	0*					
SA090406.D	113653.05	105	96	101	95	265105	201104	103833
		103	0*					
SA090407.D	113653.06	105	95	100	96	265842	202644	104330
		103	0*					
SA090408.D	113653.07	103	93	99	95	267691	203764	107246
		102	0*					
SA090409.D	113653.07 MS	109	94	100	101	272774	211566	120746
		100	0*					
SA090410.D	113653.07 MSD	108	94	99	100	268904	209820	119413
		100	0*					
SA090411.D	113653.08	105	94	100	96	271862	208706	109352
		102	0*					
SA090412.D	113653.09	104	95	99	94	266597	206080	105097
		103	0*					
SA090413.D	113653.10	104	95	100	94	265001	204378	105914
		102	0*					
SA090414.D	113653.11	104	96	100	94	259136	199299	102285
		103	0*					
SA090415.D	113653.12	105	96	100	93	258781	199552	101589
		103	0*					
SA090416.D	113653.13	103	96	99	92	251550	195536	101066
		103	0*					
SA090417.D	113653.18	106	96	99	96	268697	207720	108007
		103	0*					
SA090418.D	113653.16	105	95	99	95	261550	201715	105637
		103	0*					
SA090419.D	113653.17	104	97	99	95	253214	197950	103430
		104	0*					
SA090420.D	LCS 20	106	95	100	100	264936	206398	118657
		100	0*					
SA090421.D	LCSD 20	105	91	99	99	269460	210042	119465
		101	0*					

t - fails 12hr time check * - fails criteria

Created: Wed Sep 05 07:29:25 2012 VOAMS5

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090401.D Vial: 1
Acq On : 4 Sep 2012 9:04 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



Spectrum Information: Average of 18.096 to 18.175 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	3086	PASS
75	95	30	60	45.0	9213	PASS
95	95	100	100	100.0	20491	PASS
96	95	5	9	7.1	1464	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.8	17376	PASS
175	174	5	9	7.1	1230	PASS
176	174	95	101	98.4	17106	PASS
177	176	5	9	6.5	1115	PASS

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090402.D Vial: 2
Acq On : 4 Sep 2012 9:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 04 11:04:41 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	266930	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201991	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	111585	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane MS	10.19	111	61836	10.30 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.97%		
35) SS 1,2-DCA-d4 MS	11.33	65	67743	9.32 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.19%		
48) SS Toluene-d8 MS	14.65	98	262149	10.12 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.16%		
65) SS 4-BFB MS	18.13	95	99741	9.92 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.19%		
83) SS 1,2-DCB-d4 MS	19.75	152	104725	9.96 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.58%		
90) SS 2,5-DBT MS	23.36	250	1901	8.47 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 21.19%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	13906	1.577 ug/L	99
3) chloromethane	3.19	50	14592	1.786 ug/L	99
4) vinyl chloride	3.34	62	7999	1.853 ug/L	99
5) bromomethane	3.99	94	7045	1.340 ug/L #	93
6) chloroethane	4.12	64	8688	1.778 ug/L	93
7) trichlorofluoromethane	4.52	101	19496	1.727 ug/L	97
8) diethyl ether	5.01	59	11111	2.085 ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	16852	2.162 ug/L	99
10) acrolein	5.28	56	39	Below Cal #	1
11) acetone	5.38	43	5116	3.408 ug/L	93
12) 1,1-dichloroethene	5.62	96	14689	2.006 ug/L	98
13) tert-Butyl Alcohol(TBA)	5.78	59	5426	9.841 ug/L #	78
14) Iodomethane	0.00	142	0	N.D.	
15) methylene chloride	6.55	84	17270	2.270 ug/L	96
16) carbon disulfide	6.57	76	46686	2.397 ug/L	99
17) acrylonitrile	6.81	53	5265	2.170 ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	75004	3.910 ug/L	98
19) trans-1,2-dichloroethene	7.15	96	15227	2.179 ug/L	95
20) hexane	7.29	57	17398	1.935 ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	41172	1.922 ug/L	98
22) vinyl acetate	8.05	43	17544	1.382 ug/L	98
23) 1,1-dichloroethane	8.05	63	26270	2.128 ug/L	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	36110	1.813 ug/L #	96
25) 2,2-dichloropropane	9.25	77	18212	1.719 ug/L	96
26) cis-1,2-dichloroethene	9.35	61	19284	2.045 ug/L	96
27) 2-butanone(MEK)	8.98	43	5454	2.108 ug/L #	97
28) bromochloromethane	10.08	128	8280	2.183 ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	3592	2.192 ug/L	96
30) chloroform	9.71	83	27456	2.217 ug/L	98
32) 1,1,1-trichloroethane	10.59	97	21320	1.955 ug/L	99
33) carbon tetrachloride	11.17	117	17754	1.838 ug/L	98
34) 1,1-dichloropropene	10.97	75	20589	1.973 ug/L	93
36) tert-amyl methyl ether(TAM	11.23	73	33443	1.736 ug/L #	94
37) benzene	11.56	78	69087	2.245 ug/L	98
38) 1,2-dichloroethane	11.53	62	19872	2.063 ug/L	99
39) trichloroethene	12.73	95	17947	2.126 ug/L	97
40) 1,2-dichloropropane	13.05	63	15920	2.171 ug/L	96
41) 1,4-dioxaneV	0.00	88	0	N.D.	
42) dibromomethane	13.53	93	9521	2.133 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090402.D Vial: 2
Acq On : 4 Sep 2012 9:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 04 11:04:41 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

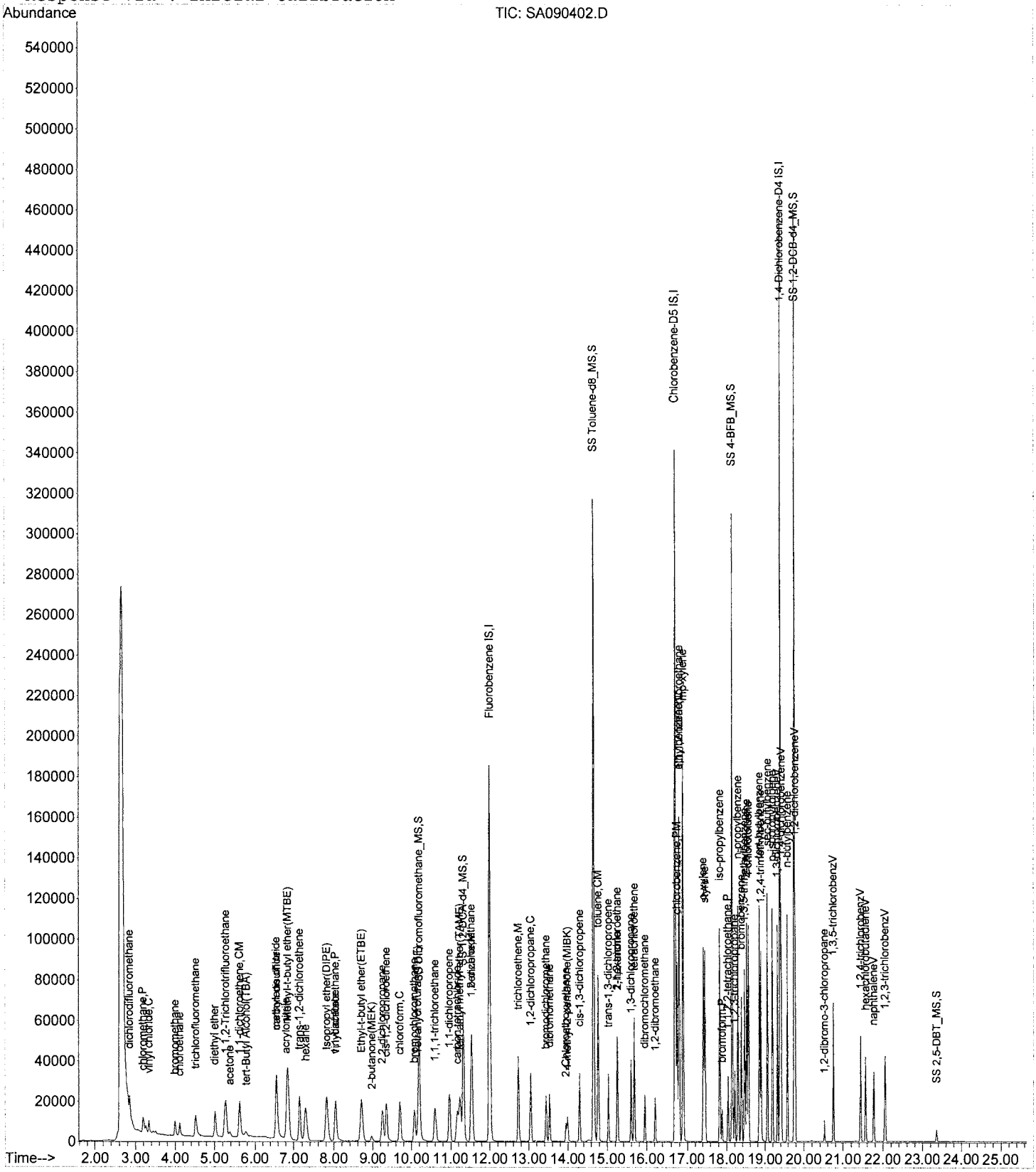
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	bromodichloromethane	13.44	83	17984	1.957 ug/L		99
44)	2-Chloroethoxyethene	13.94	63	4613	1.526 ug/L	#	85
45)	4-methyl-2-pentanone(MIBK)	13.99	58	3886	1.872 ug/L		94
46)	cis-1,3-dichloropropene	14.30	75	20357	1.842 ug/L		93
49)	toluene	14.77	91	73550	2.235 ug/L		100
50)	trans-1,3-dichloropropene	15.03	75	17570	1.688 ug/L		96
51)	1,1,2-trichloroethane	15.25	83	11593	2.205 ug/L		97
52)	2-hexanone	15.25	43	6493	1.825 ug/L		98
53)	tetrachloroethene	15.67	166	19337	2.146 ug/L		96
54)	1,3-dichloropropane	15.59	76	23901	2.107 ug/L		94
55)	dibromochloromethane	15.95	129	12922	3.796 ug/L	#	98
56)	1,2-dibromoethane	16.22	107	14260	2.145 ug/L	#	100
57)	chlorobenzene	16.74	112	51524	2.221 ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	14929	1.985 ug/L		98
59)	ethylbenzene	16.79	91	80755	2.189 ug/L		99
60)	mp-xylene	16.89	106	66300	4.382 ug/L		98
61)	o-xylene	17.41	106	30166	2.029 ug/L		99
62)	styrene	17.46	104	51022	2.122 ug/L		99
63)	bromoform	17.88	173	7162	4.089 ug/L		96
64)	iso-propylbenzene	17.83	105	72280	2.071 ug/L		99
67)	bromobenzene	18.38	156	21624	2.168 ug/L		98
68)	1,1,2,2-tetrachloroethane	18.03	83	15570	2.244 ug/L	#	1
69)	1,2,3-trichloropropane	18.20	110	5422	2.196 ug/L		97
70)	trans-1,4-dichloro-2-buten	18.20	75	14074	No Calib	#	
71)	n-propylbenzene	18.28	91	91590	2.119 ug/L		100
72)	2-chlorotoluene	18.51	91	58710	2.158 ug/L		100
73)	4-chlorotoluene	18.56	91	58523	2.155 ug/L		100
74)	1,3,5-trimethylbenzene	18.45	105	49409	1.746 ug/L		98
75)	tert-butylbenzene	18.84	119	56216	2.009 ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	50274	1.803 ug/L		99
77)	sec-butylbenzene	19.06	105	78953	2.065 ug/L		100
78)	1,3-dichlorobenzeneV	19.32	146	40342	2.182 ug/L		97
79)	p-isopropyltoluene	19.19	119	63097	1.942 ug/L		99
80)	1,4-dichlorobenzeneV	19.42	146	41386	2.251 ug/L	#	93
81)	1,2-dichlorobenzeneV	19.77	146	38697	2.253 ug/L	#	87
82)	n-butylbenzene	19.58	91	52342	1.949 ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	2656	2.044 ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	21433	2.014 ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	17018	1.892 ug/L		97
87)	hexachlorobutadieneV	21.56	225	8935	2.176 ug/L		95
88)	naphthaleneV	21.76	128	30629	1.458 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	15112	1.937 ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090402.D Vial: 2
Acq On : 4 Sep 2012 9:38 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 4 11:04 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090403.D Vial: 3
Acq On : 4 Sep 2012 10:12 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	86	0.00
2		dichlorodifluoromethane	20.000	17.013	14.9	77	0.00
3	P	chloromethane	20.000	17.396	13.0	79	0.00
4	C	vinyl chloride	20.000	17.528	12.4	85	0.01
5		bromomethane	20.000	15.934	20.3#	73	0.02
6		chloroethane	20.000	18.886	5.6	85	0.02
7		trichlorofluoromethane	20.000	18.453	7.7	82	0.02
8		diethyl ether	20.000	17.874	10.6	79	-0.01
9		1,1,2-Trichlorotrifluoroeth	20.000	19.100	4.5	84	0.01
10		acrolein	20.000	5.479	72.6#	43	0.00
11		acetone	20.000	20.446	-2.2	91	-0.02
12	CM	1,1-dichloroethene	20.000	17.845	10.8	82	0.01
13		tert-Butyl Alcohol(TBA)	100.000	78.522	21.5#	70	0.00
14		Iodomethane	20.000	0.000	100.0#	0	-6.20#
15		methylene chloride	20.000	18.852	5.7	84	0.00
16		carbon disulfide	20.000	17.858	10.7	81	0.01
17		acrylonitrile	20.000	17.700	11.5	78	-0.02
18		Methyl-t-butyl ether(MTBE)	40.000	33.807	15.5	76	-0.02
19		trans-1,2-dichloroethene	20.000	19.497	2.5	88	0.00
20		hexane	20.000	18.912	5.4	86	0.01
21		Isopropyl ether(DIPE)	20.000	17.779	11.1	80	-0.01
22		vinyl acetate	20.000	17.120	14.4	86	0.00
23	P	1,1-dichloroethane	20.000	19.360	3.2	86	0.00
24		Ethyl-t-butyl ether(ETBE)	20.000	17.149	14.3	77	0.00
25		2,2-dichloropropane	20.000	16.408	18.0	74	0.00
26		cis-1,2-dichloroethene	20.000	18.836	5.8	84	0.00
27		2-butanone(MEK)	20.000	17.106	14.5	80	-0.02
28		bromochloromethane	20.000	19.882	0.6	89	0.00
29		Tetrahydrofuran(THF)	20.000	16.896	15.5	76	-0.01
30	C	chloroform	20.000	19.009	5.0	85	0.00
31	S	SS Dibromofluoromethane_MS	10.000	10.396	-4.0	88	0.00
32		1,1,1-trichloroethane	20.000	17.959	10.2	81	0.00
33		carbon tetrachloride	20.000	17.856	10.7	79	0.00
34		1,1-dichloropropene	20.000	19.057	4.7	86	0.00
35	S	SS 1,2-DCA-d4_MS	10.000	9.135	8.7	78	0.00
36		tert-amyl methyl ether(TAME	20.000	16.930	15.4	77	-0.01
37	M	benzene	20.000	19.981	0.1	91	0.00
38		1,2-dichloroethane	20.000	17.803	11.0	78	-0.01
39	M	trichloroethene	20.000	18.973	5.1	87	0.00
40	C	1,2-dichloropropane	20.000	19.582	2.1	88	0.00
41		1,4-dioxaneV	40.000	41.834	-4.6	92	-0.02
42		dibromomethane	20.000	19.069	4.7	86	0.00
43		bromodichloromethane	20.000	18.846	5.8	85	0.00
44		2-Chloroethoxyethene	20.000	20.468	-2.3	90	0.00
45		4-methyl-2-pentanone(MIBK)	20.000	18.631	6.8	83	-0.02
46		cis-1,3-dichloropropene	20.000	18.849	5.8	84	0.00
47	I	Chlorobenzene-D5 IS	10.000	10.000	0.0	88	0.00
48	S	SS Toluene-d8_MS	10.000	9.975	0.3	87	0.00
49	CM	toluene	20.000	19.561	2.2	90	-0.01
50		trans-1,3-dichloropropene	20.000	18.016	9.9	81	0.00
51		1,1,2-trichloroethane	20.000	19.579	2.1	91	0.00
52		2-hexanone	20.000	16.852	15.7	77	-0.02
53		tetrachloroethene	20.000	19.217	3.9	91	0.00
54		1,3-dichloropropane	20.000	18.754	6.2	88	0.00
55		dibromochloromethane	20.000	18.143	9.3	89	-0.01
56		1,2-dibromoethane	20.000	19.281	3.6	88	0.00

57	PM	chlorobenzene	20.000	19.779	1.1	91	0.00
58		1,1,1,2-tetrachloroethane	20.000	20.058	-0.3	87	0.00
59	C	ethylbenzene	20.000	20.459	-2.3	89	-0.01
60		mp-xylene	40.000	41.170	-2.9	90	-0.01
61		o-xylene	20.000	19.774	1.1	90	-0.01
62		styrene	20.000	20.089	-0.4	90	-0.01
63	P	bromoform	20.000	17.845	10.8	89	-0.01
64		iso-propylbenzene	20.000	20.105	-0.5	89	0.00
65	S	SS 4-BFB_MS	10.000	10.037	-0.4	87	0.00
66	I	1,4-Dichlorobenzene-D4 IS	10.000	10.000	0.0	91	0.00
67		bromobenzene	20.000	19.281	3.6	92	0.00
68	P	1,1,2,2-tetrachloroethane	20.000	19.529	2.4	93	-0.01
69		1,2,3-trichloropropane	20.000	18.297	8.5	88	-0.01
70		trans-1,4-dichloro-2-butene	20.000	0.000	100.0#	0	0.00
71		n-propylbenzene	20.000	19.580	2.1	89	-0.01
72		2-chlorotoluene	20.000	19.127	4.4	89	-0.01
73		4-chlorotoluene	20.000	19.102	4.5	88	-0.01
74		1,3,5-trimethylbenzene	20.000	19.164	4.2	87	-0.02
75		tert-butylbenzene	20.000	19.505	2.5	90	-0.01
76		1,2,4-trimethylbenzene	20.000	18.855	5.7	86	-0.01
77		sec-butylbenzene	20.000	20.005	-0.0	90	0.00
78		1,3-dichlorobenzeneV	20.000	19.749	1.3	92	-0.01
79		p-isopropyltoluene	20.000	20.294	-1.5	90	0.00
80		1,4-dichlorobenzeneV	20.000	19.731	1.3	92	-0.01
81		1,2-dichlorobenzeneV	20.000	19.643	1.8	92	-0.01
82		n-butylbenzene	20.000	19.946	0.3	89	0.00
83	S	SS 1,2-DCB-d4_MS	10.000	9.894	1.1	90	0.00
84		1,2-dibromo-3-chloropropane	20.000	21.061	-5.3	92	0.00
85		1,3,5-trichlorobenzV	20.000	19.496	2.5	92	0.00
86		1,2,4-trichlorobenzV	20.000	19.333	3.3	91	-0.01
87		hexachlorobutadieneV	20.000	19.864	0.7	96	-0.01
88		naphthaleneV	20.000	19.126	4.4	89	-0.01
89		1,2,3-trichlorobenzV	20.000	19.437	2.8	92	-0.01
90	S	SS 2,5-DBT_MS	20.000	20.577	-2.9	91	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SA080609.D 5VID0806.M Tue Sep 11 15:16:14 2012

Bkm 9/6/12

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090403.D Vial: 3
Acq On : 4 Sep 2012 10:12 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 04 11:05:00 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	278915	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	213418	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	121534	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	65229	10.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.96%			
35) SS 1,2-DCA-d4_MS	11.32	65	69391	9.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.35%			
48) SS Toluene-d8_MS	14.66	98	273136	9.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.75%			
65) SS 4-BFB_MS	18.13	95	106632	10.04	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	113328	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.94%			
90) SS 2,5-DBT_MS	23.36	250	40043	20.58	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 51.44%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	156773	17.013	ug/L	100
3) chloromethane	3.19	50	148533	17.396	ug/L	100
4) vinyl chloride	3.34	62	79077	17.528	ug/L	99
5) bromomethane	3.99	94	87557	15.934	ug/L	98
6) chloroethane	4.11	64	96435	18.886	ug/L	99
7) trichlorofluoromethane	4.52	101	217646	18.453	ug/L	99
8) diethyl ether	5.01	59	99550	17.874	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	155533	19.100	ug/L	99
10) acrolein	5.28	56	2205	5.479	ug/L	89
11) acetone	5.38	43	32068	20.446	ug/L	98
12) 1,1-dichloroethene	5.61	96	136518	17.845	ug/L	97
13) tert-Butyl Alcohol(TBA)	5.77	59	45240m	78.522	ug/L	
15) methylene chloride	6.55	84	149884	18.852	ug/L	98
16) carbon disulfide	6.57	76	363408	17.858	ug/L	100
17) acrylonitrile	6.81	53	44880	17.700	ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	677713	33.807	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	142381	19.497	ug/L	96
20) hexane	7.29	57	177650	18.912	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	398001	17.779	ug/L	98
22) vinyl acetate	8.05	43	227117	17.120	ug/L	98
23) 1,1-dichloroethane	8.04	63	249727	19.360	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	356962	17.149	ug/L	97
25) 2,2-dichloropropane	9.25	77	181593	16.408	ug/L	99
26) cis-1,2-dichloroethene	9.36	61	185558	18.836	ug/L	96
27) 2-butanone(MEK)	8.96	43	46248	17.106	ug/L	98
28) bromochloromethane	10.08	128	78795	19.882	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	28936	16.896	ug/L	97
30) chloroform	9.71	83	246036	19.009	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	204607	17.959	ug/L	99
33) carbon tetrachloride	11.17	117	180254	17.856	ug/L	98
34) 1,1-dichloropropene	10.97	75	207763	19.057	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	340818	16.930	ug/L	95
37) benzene	11.56	78	642561	19.981	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090403.D Vial: 3
Acq On : 4 Sep 2012 10:12 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 04 11:05:00 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

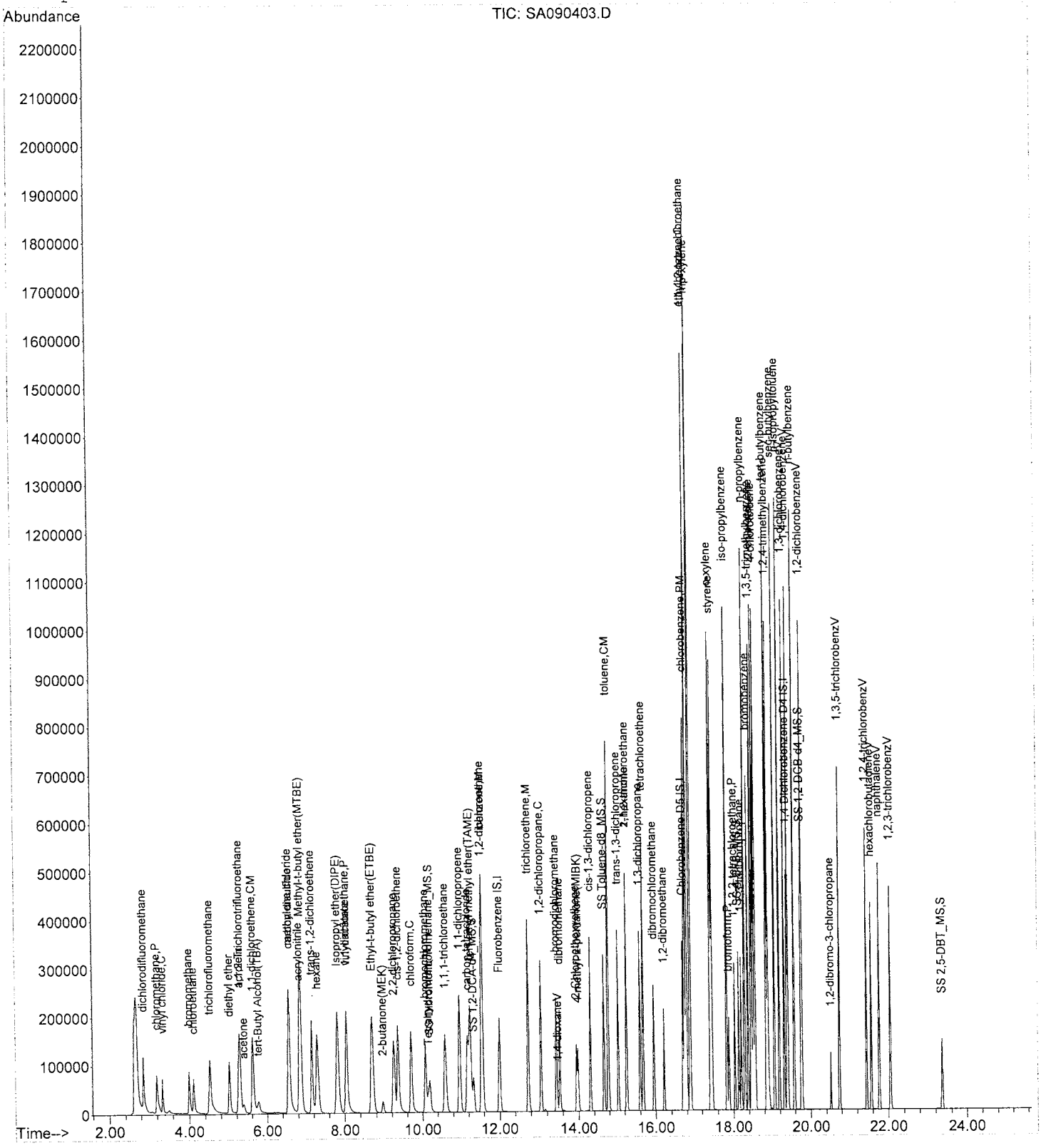
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	11.53	62	179186	17.803 ug/L	99
39)	trichloroethene	12.73	95	167325	18.973 ug/L	96
40)	1,2-dichloropropane	13.05	63	150060	19.582 ug/L	95
41)	1,4-dioxaneV	13.48	88	2960	41.834 ug/L #	75
42)	dibromomethane	13.53	93	88920	19.069 ug/L	97
43)	bromodichloromethane	13.44	83	181008	18.846 ug/L	99
44)	2-Chloroethoxyethene	13.95	63	64651	20.468 ug/L	94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	40417	18.631 ug/L	96
46)	cis-1,3-dichloropropene	14.30	75	217609	18.849 ug/L	93
49)	toluene	14.77	91	679996	19.561 ug/L	100
50)	trans-1,3-dichloropropene	15.03	75	198166	18.016 ug/L	93
51)	1,1,2-trichloroethane	15.25	83	108777	19.579 ug/L	96
52)	2-hexanone	15.25	43	63346	16.852 ug/L	97
53)	tetrachloroethene	15.67	166	182993	19.217 ug/L	95
54)	1,3-dichloropropane	15.60	76	224796	18.754 ug/L	91
55)	dibromochloromethane	15.95	129	142132	18.143 ug/L #	100
56)	1,2-dibromoethane	16.22	107	135425	19.281 ug/L #	99
57)	chlorobenzene	16.74	112	484747	19.779 ug/L	97
58)	1,1,1,2-tetrachloroethane	16.79	131	159383	20.058 ug/L	99
59)	ethylbenzene	16.79	91	797530	20.459 ug/L	99
60)	mp-xylene	16.89	106	658208	41.170 ug/L	97
61)	o-xylene	17.41	106	310655	19.774 ug/L	98
62)	styrene	17.46	104	510262	20.089 ug/L	98
63)	bromoform	17.88	173	84012	17.845 ug/L	95
64)	iso-propylbenzene	17.83	105	741378	20.105 ug/L	99
67)	bromobenzene	18.38	156	209486	19.281 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	147602	19.529 ug/L	99
69)	1,2,3-trichloropropane	18.20	110	49196	18.297 ug/L	99
71)	n-propylbenzene	18.28	91	921904	19.580 ug/L	99
72)	2-chlorotoluene	18.51	91	566722	19.127 ug/L	98
73)	4-chlorotoluene	18.56	91	565062	19.102 ug/L	99
74)	1,3,5-trimethylbenzene	18.45	105	590740	19.164 ug/L	98
75)	tert-butylbenzene	18.84	119	594366	19.505 ug/L	97
76)	1,2,4-trimethylbenzene	18.89	105	572676	18.855 ug/L	98
77)	sec-butylbenzene	19.06	105	833150	20.005 ug/L	99
78)	1,3-dichlorobenzeneV	19.32	146	397627	19.749 ug/L	96
79)	p-isopropyltoluene	19.19	119	718046	20.294 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	395152	19.731 ug/L	96
81)	1,2-dichlorobenzeneV	19.77	146	367461	19.643 ug/L	95
82)	n-butylbenzene	19.58	91	583439	19.946 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	29813	21.061 ug/L	95
85)	1,3,5-trichlorobenzV	20.75	180	225985	19.496 ug/L	96
86)	1,2,4-trichlorobenzV	21.44	180	189405	19.333 ug/L	96
87)	hexachlorobutadieneV	21.56	225	88834	19.864 ug/L	96
88)	naphthaleneV	21.76	128	437697	19.126 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	165183	19.437 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090403.D Vial: 3
Acq On : 4 Sep 2012 10:12 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 4 11:05 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090404.D Vial: 4
Acq On : 4 Sep 2012 10:46 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:26:58 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	274000	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	208277	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	109756	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	63505	10.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.02%			
35) SS 1,2-DCA-d4_MS	11.33	65	69259	9.28	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.82%			
48) SS Toluene-d8_MS	14.65	98	267742	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.20%			
65) SS 4-BFB_MS	18.13	95	99125	9.56	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.60%			
83) SS 1,2-DCB-d4_MS	19.75	152	104359	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.89%			
90) SS 2,5-DBT_MS	23.36	250	365	7.94	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 19.86%#			
Target Compounds						Qvalue
11) acetone	5.39	43	465	0.302	ug/L #	40
16) carbon disulfide	6.58	76	9761	0.488	ug/L #	74
85) 1,3,5-trichlorobenzV	20.75	180	4357	0.416	ug/L	96
86) 1,2,4-trichlorobenzV	21.44	180	4114	0.465	ug/L	95
87) hexachlorobutadieneV	21.56	225	1230	0.305	ug/L	95
89) 1,2,3-trichlorobenzV	22.05	180	4054	0.528	ug/L	94

c/o from STD 20; <Reporting limit

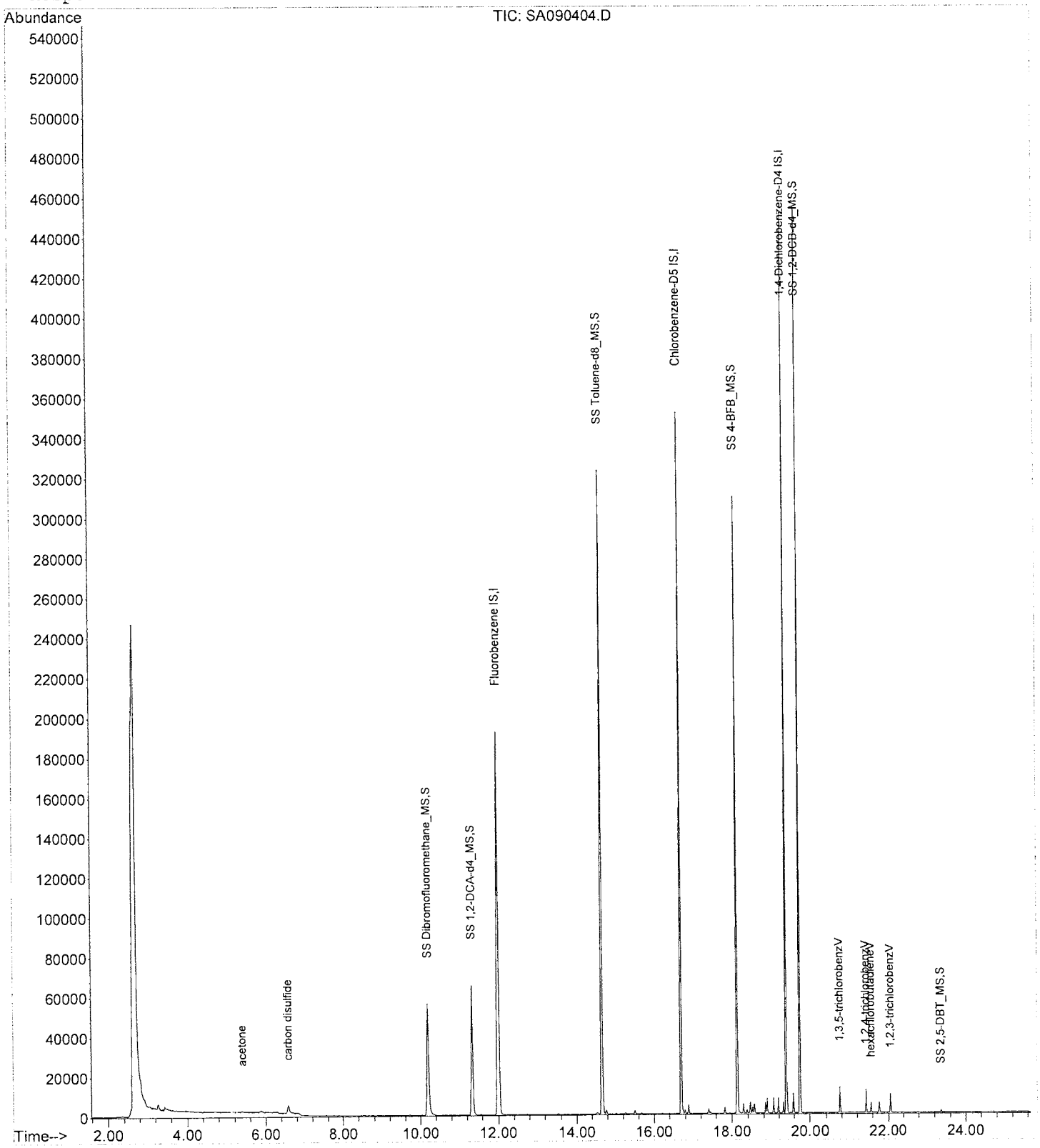
Blue 9/16/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090404.D Vial: 4
Acq On : 4 Sep 2012 10:46 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:26 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090405.D Vial: 5
Acq On : 4 Sep 2012 11:24 am Operator: BAM
Sample : 113653.03 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:22:53 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	259429	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	199945	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	105127	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61057	10.46	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.62%			
35) SS 1,2-DCA-d4_MS	11.32	65	65908	9.33	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.29%			
48) SS Toluene-d8_MS	14.66	98	254585	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.24%			
65) SS 4-BFB_MS	18.13	95	95330	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.78%			
83) SS 1,2-DCB-d4_MS	19.75	152	99253	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.18%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.11	64	30823	6.490	ug/L	98
8) diethyl ether	5.01	59	67070	12.947	ug/L	100
11) acetone	5.38	43	1596	1.094	ug/L	99
13) tert-Butyl Alcohol(TBA)	5.76	59	2683	5.007	ug/L #	87
16) carbon disulfide	6.57	76	6106	0.323	ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	7000	0.375	ug/L #	89
29) Tetrahydrofuran(THF)	10.15	42	17440	10.948	ug/L	97
37) benzene	11.56	78	55713	1.863	ug/L	97
41) 1,4-dioxaneV	13.48	88	2002	30.420	ug/L	93
52) 2-hexanone	15.14	43	2424	0.688	ug/L #	33
57) chlorobenzene	16.74	112	30206	1.316	ug/L	98
59) ethylbenzene	~~16.89~~	91	66740	~~1.827~~	ug/L #	76
60) mp-xylene	16.89	106	34885	2.329	ug/L	99
64) iso-propylbenzene	17.83	105	33684	0.975	ug/L	99
76) 1,2,4-trimethylbenzene	18.89	105	11137	0.424	ug/L	99
78) 1,3-dichlorobenzeneV	~~19.42~~	146	14761	0.848	ug/L #	75
80) 1,4-dichlorobenzeneV	19.42	146	14761	0.852	ug/L #	71

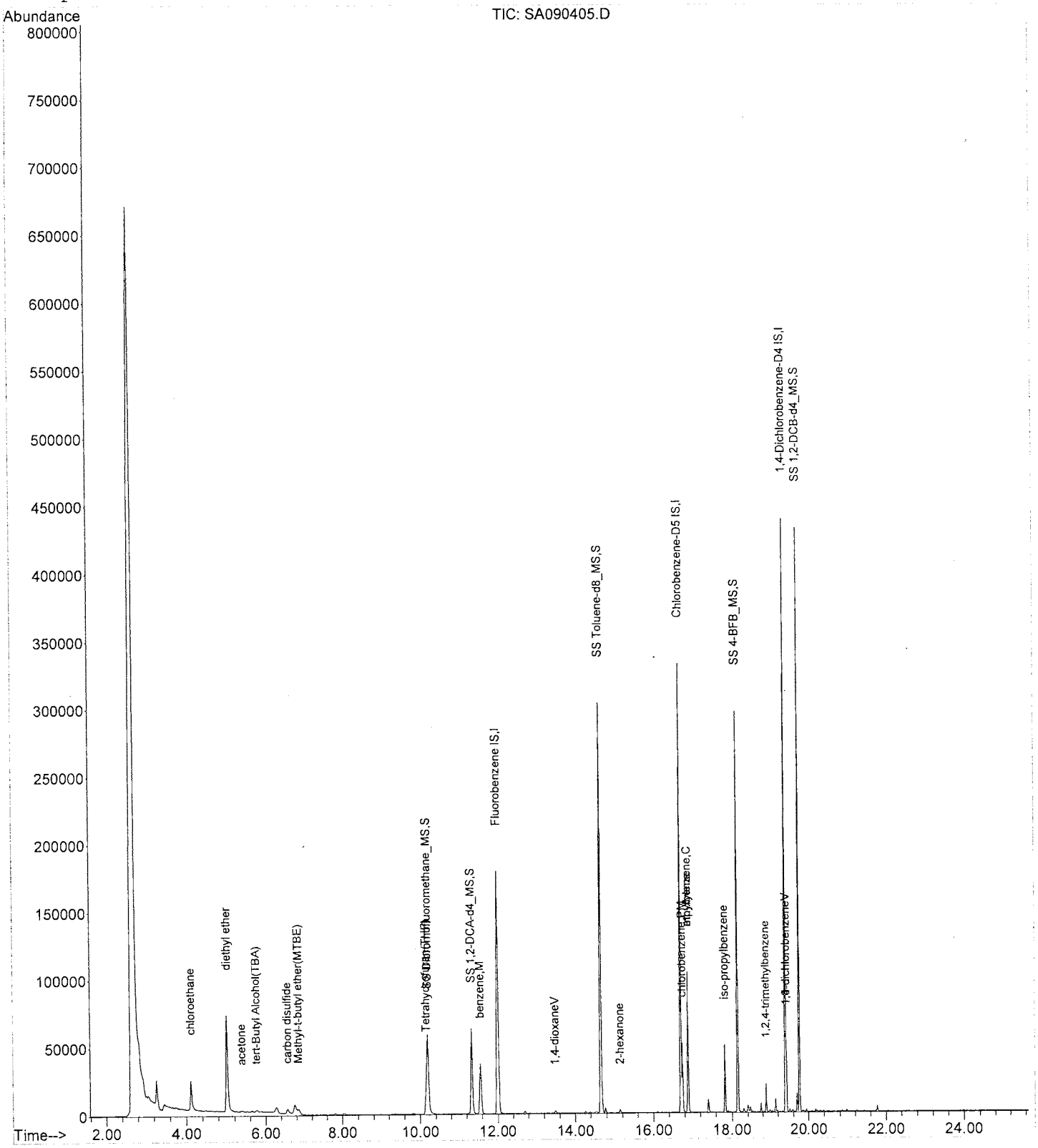
B 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090405.D 5VID0806.M Wed Sep 05 07:22:55 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090405.D Vial: 5
Acq On : 4 Sep 2012 11:24 am Operator: BAM
Sample : 113653.03 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:22 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090406.D Vial: 6
Acq On : 4 Sep 2012 11:58 am Operator: BAM
Sample : 113653.05 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:22:58 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	265105	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201104	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	103833	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	62735	10.52 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.19%		
35) SS 1,2-DCA-d4_MS	11.33	65	69287	9.60 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.97%		
48) SS Toluene-d8_MS	14.65	98	260322	10.09 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%		
65) SS 4-BFB_MS	18.13	95	95131	9.50 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.03%		
83) SS 1,2-DCB-d4_MS	19.75	152	100667	10.29 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.87%		
90) SS 2,5-DBT_MS	0.00	250	0	0.00 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#		
Target Compounds					Qvalue
6) chloroethane	4.11	64	3062	0.631 ug/L	93
8) diethyl ether	5.02	59	24351	4.600 ug/L	96
11) acetone	5.39	43	1442	0.967 ug/L #	86
13) tert-Butyl Alcohol(TBA)	5.78	59	1514	2.765 ug/L #	88
16) carbon disulfide	6.57	76	7776	0.402 ug/L #	89
18) Methyl-t-butyl ether(MTBE)	6.86	73	5808	0.305 ug/L #	83
29) Tetrahydrofuran(THF)	10.16	42	10410	6.395 ug/L	98
37) benzene	11.56	78	27113	0.887 ug/L	97
41) 1,4-dioxaneV	13.49	88	549	8.163 ug/L #	80
57) chlorobenzene	16.74	112	45130	1.954 ug/L	96
78) 1,3-dichlorobenzeneV	~~19.42~~	146	10932	0.636 ug/L #	73
80) 1,4-dichlorobenzeneV	19.42	146	10932	0.639 ug/L #	70

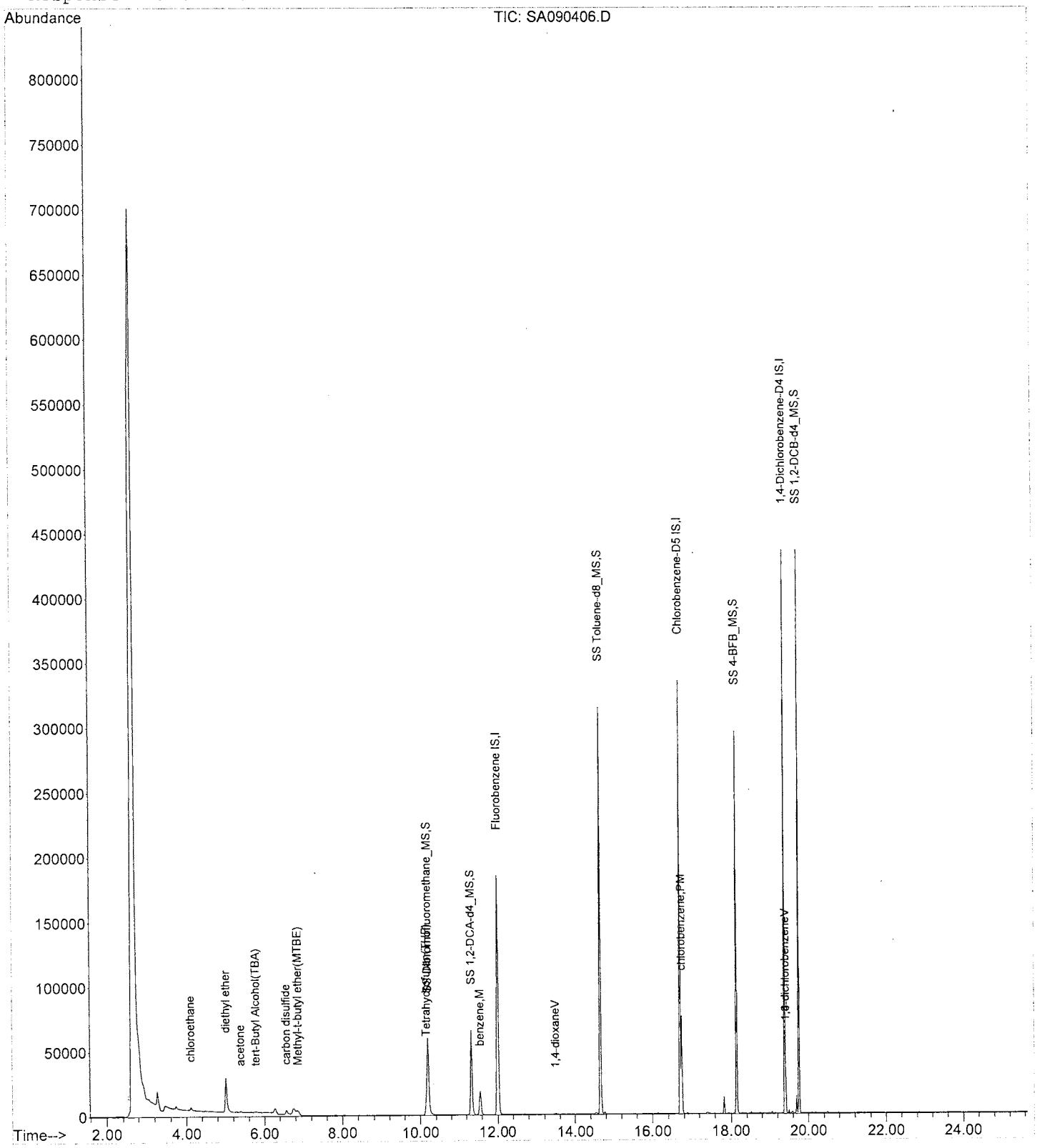
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090406.D 5VID0806.M Wed Sep 05 07:22:59 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090406.D Vial: 6
Acq On : 4 Sep 2012 11:58 am Operator: BAM
Sample : 113653.05 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:22 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090407.D Vial: 7
Acq On : 4 Sep 2012 12:32 pm Operator: BAM
Sample : 113653.06 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:02 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	265842	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	202644	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	104330	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	62638	10.47 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.74%		
35) SS 1,2-DCA-d4_MS	11.33	65	68742	9.50 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.95%		
48) SS Toluene-d8_MS	14.65	98	260432	10.02 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.17%		
65) SS 4-BFB_MS	18.13	95	96364	9.55 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.53%		
83) SS 1,2-DCB-d4_MS	19.75	152	101513	10.32 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.24%		
90) SS 2,5-DBT_MS	0.00	250	0	0.00 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#		
Target Compounds					Qvalue
6) chloroethane	4.11	64	33143	6.810 ug/L	98
8) diethyl ether	5.01	59	55424	10.441 ug/L	98
11) acetone	5.38	43	1828	1.223 ug/L	93
13) tert-Butyl Alcohol(TBA)	5.76	59	3965	7.220 ug/L #	80
16) carbon disulfide	6.57	76	7600	0.392 ug/L #	71
29) Tetrahydrofuran(THF)	10.15	42	5166	3.165 ug/L	100
37) benzene	11.56	78	42608	1.390 ug/L	96
41) 1,4-dioxaneV	13.48	88	904	13.405 ug/L #	82
57) chlorobenzene	16.74	112	146735	6.306 ug/L	98
64) iso-propylbenzene	17.83	105	19350	0.553 ug/L	99
78) 1,3-dichlorobenzeneV	19.42	146	16502	0.955 ug/L #	90
80) 1,4-dichlorobenzeneV	19.42	146	16502	0.960 ug/L #	86
81) 1,2-dichlorobenzeneV	19.78	146	6971	0.434 ug/L #	1

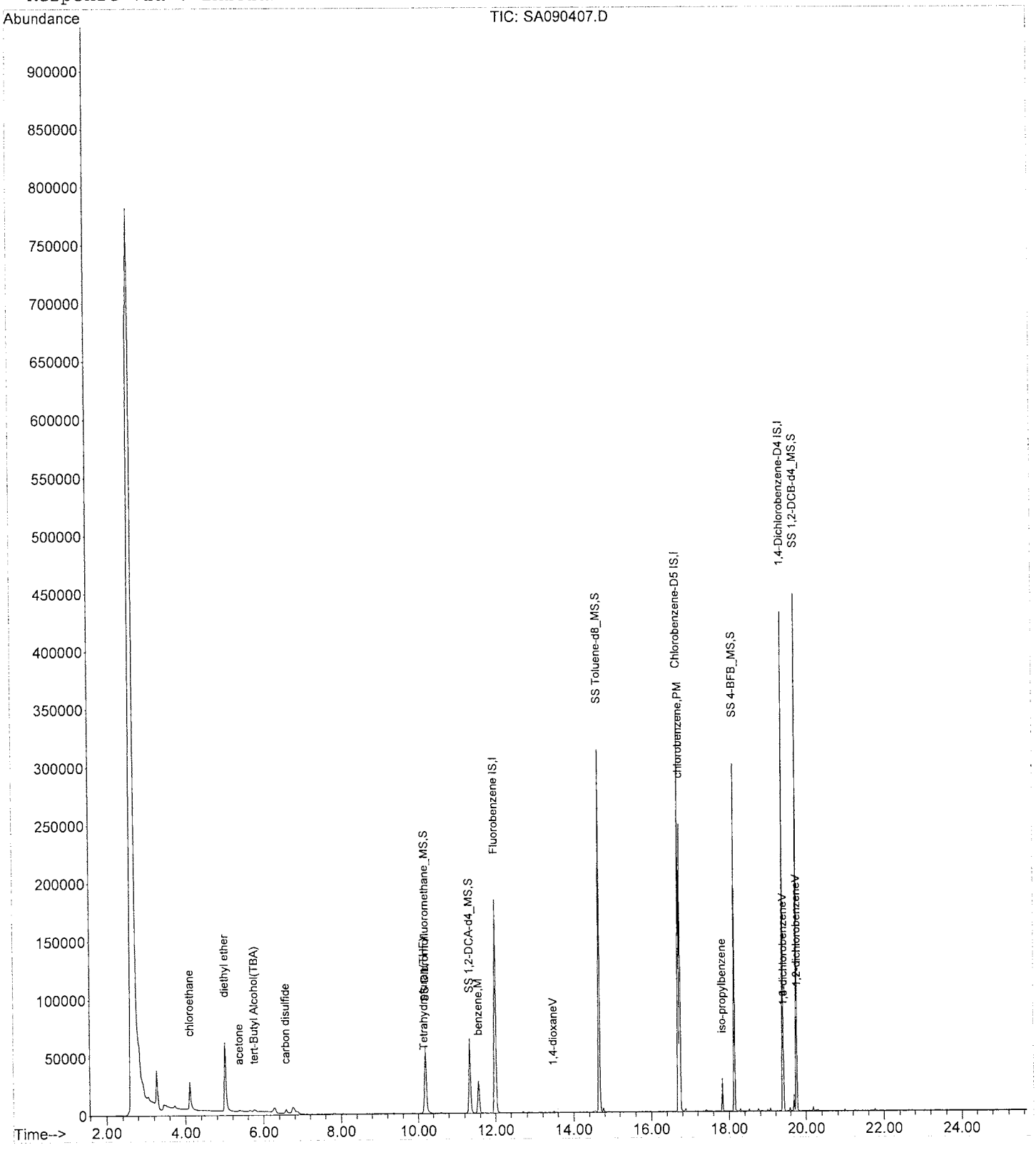
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090407.D Vial: 7
Acq On : 4 Sep 2012 12:32 pm Operator: BAM
Sample : 113653.06 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090408.D Vial: 8
Acq On : 4 Sep 2012 1:06 pm Operator: BAM
Sample : 113653.07 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:06 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	267691	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	203764	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	107246	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	61901	10.28 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.79%		
35) SS 1,2-DCA-d4_MS	11.33	65	67683	9.28 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.84%		
48) SS Toluene-d8_MS	14.65	98	259302	9.92 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.19%		
65) SS 4-BFB_MS	18.13	95	96863	9.55 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.49%		
83) SS 1,2-DCB-d4_MS	19.75	152	103458	10.24 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.36%		
90) SS 2,5-DBT_MS	0.00	250	0	0.00 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#		
Target Compounds					Qvalue
6) chloroethane	4.11	64	39566	8.074 ug/L	97
8) diethyl ether	5.01	59	63135	11.811 ug/L	100
11) acetone	5.38	43	2493	1.656 ug/L #	70
13) tert-Butyl Alcohol(TBA)	5.76	59	4843	8.758 ug/L #	83
16) carbon disulfide	6.57	76	6876	0.352 ug/L	98
29) Tetrahydrofuran(THF)	10.16	42	6427	3.910 ug/L	96
37) benzene	11.56	78	46021	1.491 ug/L	97
41) 1,4-dioxaneV	13.48	88	988	14.549 ug/L #	91
57) chlorobenzene	16.74	112	128478	5.491 ug/L	98
64) iso-propylbenzene	17.83	105	18870	0.536 ug/L	99
78) 1,3-dichlorobenzeneV	19.42	146	16522	0.930 ug/L #	91
80) 1,4-dichlorobenzeneV	19.42	146	16522	0.935 ug/L #	87
81) 1,2-dichlorobenzeneV	19.77	146	6225	0.377 ug/L #	1

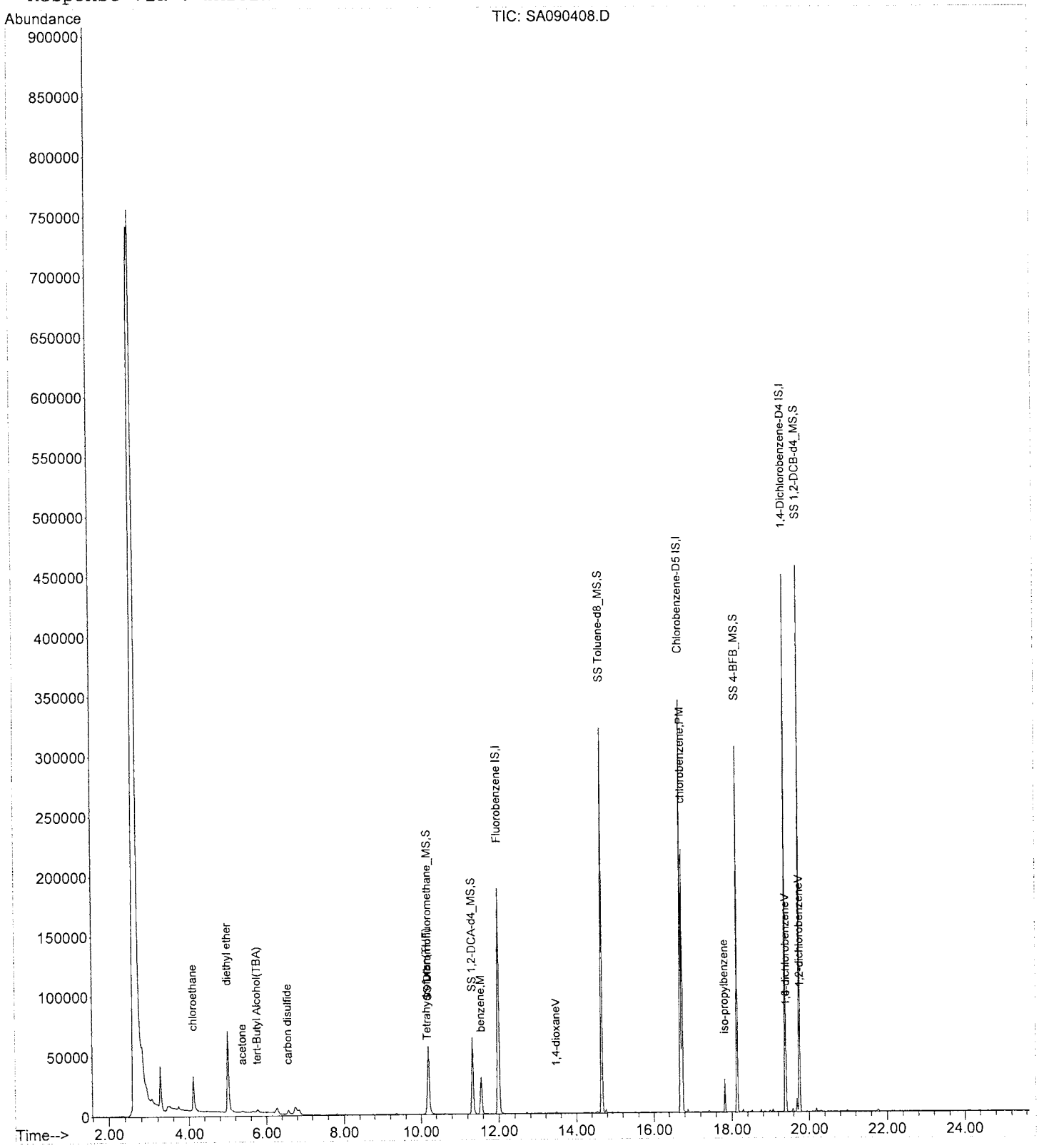
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090408.D Vial: 8
Acq On : 4 Sep 2012 1:06 pm Operator: BAM
Sample : 113653.07 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090409.D Vial: 9
Acq On : 4 Sep 2012 1:40 pm Operator: BAM
Sample : 113653.07 MS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	272774	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	211566	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	120746	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	66728	10.87	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.74%			
35) SS 1,2-DCA-d4_MS	11.33	65	70181	9.45	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.47%			
48) SS Toluene-d8_MS	14.65	98	271180	9.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.91%			
65) SS 4-BFB_MS	18.13	95	106539	10.12	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 101.16%			
83) SS 1,2-DCB-d4_MS	19.75	152	113567	9.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.80%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	127121	14.105	ug/L	99
3) chloromethane	3.19	50	130383	15.614	ug/L	100
4) vinyl chloride	3.34	62	74543	16.895	ug/L	100
5) bromomethane	3.99	94	86288	16.057	ug/L	99
6) chloroethane	4.11	64	134377	26.910	ug/L	99
7) trichlorofluoromethane	4.52	101	217948	18.895	ug/L	99
8) diethyl ether	5.02	59	157143	28.851	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	149317	18.750	ug/L	99
10) acrolein	5.28	56	1470	2.364	ug/L #	56
11) acetone	5.38	43	26444	17.240	ug/L	97
12) 1,1-dichloroethene	5.61	96	131804	17.617	ug/L	97
13) tert-Butyl Alcohol(TBA)	5.77	59	47051	83.503	ug/L #	88
15) methylene chloride	6.55	84	142994	18.390	ug/L	97
16) carbon disulfide	6.57	76	359754	18.076	ug/L	99
17) acrylonitrile	6.81	53	37207	15.004	ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	316186	16.128	ug/L	97
19) trans-1,2-dichloroethene	7.14	96	136751	19.148	ug/L	95
21) Isopropyl ether(DIPE)	7.81	45	371519	16.970	ug/L	99
22) vinyl acetate	8.05	43	179310	13.821	ug/L	98
23) 1,1-dichloroethane	8.04	63	238468	18.904	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	339990	16.702	ug/L	97
25) 2,2-dichloropropane	9.24	77	178001	16.446	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	194649	20.203	ug/L	97
27) 2-butanone(MEK)	8.96	43	40887	15.464	ug/L	98
28) bromochloromethane	10.08	128	71366	18.413	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	34764	20.756	ug/L	98
30) chloroform	9.71	83	236153	18.656	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	197301	17.708	ug/L	99
33) carbon tetrachloride	11.17	117	172888	17.511	ug/L	98
34) 1,1-dichloropropene	10.97	75	203958	19.129	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	325127	16.514	ug/L #	61
37) benzene	11.56	78	674588	21.449	ug/L	98
38) 1,2-dichloroethane	11.53	62	168557	17.124	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA090409.D 5VID0806.M Wed Sep 05 07:23:11 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090409.D Vial: 9
Acq On : 4 Sep 2012 1:40 pm Operator: BAM
Sample : 113653.07 MS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	12.73	95	159943	18.544 ug/L	96
40)	1,2-dichloropropane	13.05	63	139864	18.662 ug/L	96
41)	1,4-dioxaneV	13.49	88	2880	41.620 ug/L	90
42)	dibromomethane	13.53	93	83608	18.334 ug/L	96
43)	bromodichloromethane	13.44	83	168474	17.936 ug/L	98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	34810	16.408 ug/L	99
46)	cis-1,3-dichloropropene	14.30	75	204720	18.132 ug/L	94
49)	toluene	14.77	91	668339	19.394 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	184805	16.948 ug/L #	85
51)	1,1,2-trichloroethane	15.25	83	103085	18.717 ug/L	97
52)	2-hexanone	15.25	43	59744	16.033 ug/L	97
53)	tetrachloroethene	15.67	166	206381	21.863 ug/L #	95
54)	1,3-dichloropropane	15.59	76	215456	18.132 ug/L	95
55)	dibromochloromethane	15.95	129	128437	16.739 ug/L #	99
56)	1,2-dibromoethane	16.22	107	125503	18.025 ug/L #	99
57)	chlorobenzene	16.74	112	602949	24.818 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	148952	18.909 ug/L	99
59)	ethylbenzene	16.79	91	779253	20.165 ug/L	99
60)	mp-xylene	16.89	106	639054	40.322 ug/L	97
61)	o-xylene	17.41	106	298765	19.184 ug/L	98
62)	styrene	17.46	104	505786	20.087 ug/L	98
63)	bromoform	17.88	173	80777	17.390 ug/L #	92
64)	iso-propylbenzene	17.83	105	810929	22.184 ug/L	99
67)	bromobenzene	18.38	156	197038	18.254 ug/L	96
68)	1,1,2,2-tetrachloroethane	18.03	83	137608	18.326 ug/L	99
69)	1,2,3-trichloropropane	18.20	110	45210	16.924 ug/L	99
71)	n-propylbenzene	18.28	91	918000	19.625 ug/L	99
72)	2-chlorotoluene	18.51	91	534705	18.164 ug/L	98
73)	4-chlorotoluene	18.56	91	539061	18.341 ug/L	98
74)	1,3,5-trimethylbenzene	18.45	105	568166	18.552 ug/L	98
75)	tert-butylbenzene	18.84	119	577043	19.060 ug/L	98
76)	1,2,4-trimethylbenzene	18.89	105	548803	18.187 ug/L	98
77)	sec-butylbenzene	19.06	105	804866	19.452 ug/L	99
78)	1,3-dichlorobenzeneV	19.32	146	376064	18.800 ug/L	96
79)	p-isopropyltoluene	19.19	119	705118	20.058 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	398019	20.004 ug/L	96
81)	1,2-dichlorobenzeneV	19.77	146	348485	18.750 ug/L	96
82)	n-butylbenzene	19.58	91	567432	19.525 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	27117	19.281 ug/L	94
85)	1,3,5-trichlorobenzV	20.75	180	211546	18.370 ug/L	96
86)	1,2,4-trichlorobenzV	21.44	180	183675	18.871 ug/L	96
87)	hexachlorobutadieneV	21.56	225	79078	17.798 ug/L	97
88)	naphthaleneV	21.76	128	398713	17.536 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	153500	18.180 ug/L	95

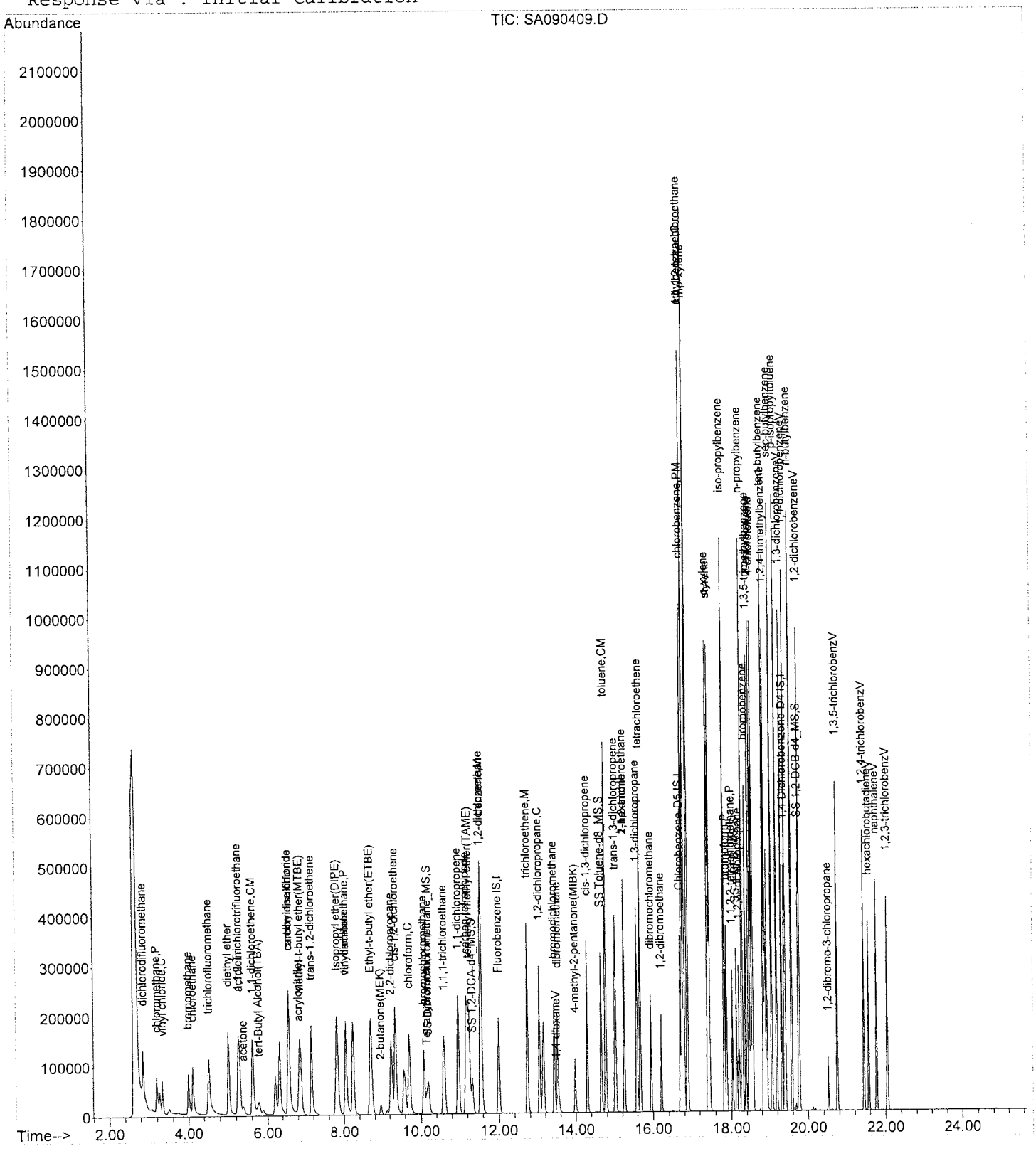
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090409.D 5VID0806.M Wed Sep 05 07:23:11 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090409.D Vial: 9
Acq On : 4 Sep 2012 1:40 pm Operator: BAM
Sample : 113653.07 MS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090410.D Vial: 10
Acq On : 4 Sep 2012 2:15 pm Operator: BAM
Sample : 113653.07 MSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:14 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	268904	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	209820	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	119413	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	65107	10.76	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 107.63%			
35) SS 1,2-DCA-d4_MS	11.32	65	69141	9.44	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.41%			
48) SS Toluene-d8_MS	14.65	98	267620	9.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.42%			
65) SS 4-BFB_MS	18.13	95	104960	10.05	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 100.49%			
83) SS 1,2-DCB-d4_MS	19.75	152	112218	9.97	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.71%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	128232	14.433	ug/L	99
3) chloromethane	3.19	50	129888	15.778	ug/L	100
4) vinyl chloride	3.33	62	76069	17.489	ug/L	99
5) bromomethane	3.99	94	93466	17.643	ug/L	99
6) chloroethane	4.11	64	138069	28.047	ug/L	99
7) trichlorofluoromethane	4.52	101	220985	19.434	ug/L	99
8) diethyl ether	5.01	59	160069	29.811	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	147054	18.731	ug/L	99
10) acrolein	5.27	56	2118	5.443	ug/L #	67
11) acetone	5.38	43	30934	20.458	ug/L	99
12) 1,1-dichloroethene	5.61	96	131602	17.843	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.76	59	45765	82.390	ug/L #	85
15) methylene chloride	6.55	84	142298	18.564	ug/L	98
16) carbon disulfide	6.57	76	360498	18.374	ug/L	99
17) acrylonitrile	6.81	53	38178	15.618	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	317285	16.417	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	136355	19.367	ug/L	95
21) Isopropyl ether(DIPE)	7.81	45	374781	17.365	ug/L	99
22) vinyl acetate	8.05	43	188945	14.773	ug/L	97
23) 1,1-dichloroethane	8.04	63	235237	18.916	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	345762	17.230	ug/L	97
25) 2,2-dichloropropane	9.24	77	178093	16.691	ug/L	99
26) cis-1,2-dichloroethene	9.35	61	189486	19.950	ug/L	99
27) 2-butanone(MEK)	8.96	43	42666	16.369	ug/L	96
28) bromochloromethane	10.07	128	71923	18.824	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	35488	21.493	ug/L	96
30) chloroform	9.71	83	235914	18.906	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	198505	18.072	ug/L	99
33) carbon tetrachloride	11.17	117	173999	17.878	ug/L	98
34) 1,1-dichloropropene	10.96	75	202659	19.281	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	330550	17.032	ug/L #	60
37) benzene	11.56	78	670035	21.611	ug/L	98
38) 1,2-dichloroethane	11.53	62	168008	17.314	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA090410.D 5VID0806.M Wed Sep 05 07:23:15 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090410.D Vial: 10
Acq On : 4 Sep 2012 2:15 pm Operator: BAM
Sample : 113653.07 MSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:14 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) trichloroethene	12.73	95	158414	18.631 ug/L	96
40) 1,2-dichloropropane	13.05	63	139365	18.863 ug/L	95
41) 1,4-dioxaneV	13.48	88	3075	45.077 ug/L	86
42) dibromomethane	13.53	93	84463	18.788 ug/L	96
43) bromodichloromethane	13.44	83	169010	18.252 ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.98	58	36493	17.449 ug/L	98
46) cis-1,3-dichloropropene	14.30	75	204703	18.391 ug/L	93
49) toluene	14.77	91	661408	19.353 ug/L	100
50) trans-1,3-dichloropropene	15.03	75	185426	17.147 ug/L #	85
51) 1,1,2-trichloroethane	15.25	83	102348	18.737 ug/L	96
52) 2-hexanone	15.25	43	61865	16.740 ug/L	96
53) tetrachloroethene	15.67	166	200077	21.372 ug/L #	95
54) 1,3-dichloropropane	15.59	76	214977	18.242 ug/L	95
55) dibromochloromethane	15.95	129	128773	16.897 ug/L #	100
56) 1,2-dibromoethane	16.22	107	126045	18.254 ug/L #	99
57) chlorobenzene	16.74	112	601939	24.982 ug/L	96
58) 1,1,1,2-tetrachloroethane	16.78	131	149262	19.106 ug/L	99
59) ethylbenzene	16.79	91	773149	20.174 ug/L	99
60) mp-xylene	16.88	106	638119	40.598 ug/L	97
61) o-xylene	17.41	106	301391	19.513 ug/L	97
62) styrene	17.46	104	510622	20.448 ug/L	98
63) bromoform	17.88	173	81405	17.627 ug/L #	92
64) iso-propylbenzene	17.82	105	811442	22.383 ug/L	99
67) bromobenzene	18.38	156	198276	18.574 ug/L	95
68) 1,1,2,2-tetrachloroethane	18.03	83	141370	19.037 ug/L	98
69) 1,2,3-trichloropropane	18.20	110	45626	17.271 ug/L	98
71) n-propylbenzene	18.28	91	922362	19.938 ug/L	100
72) 2-chlorotoluene	18.51	91	533785	18.336 ug/L	98
73) 4-chlorotoluene	18.56	91	539102	18.548 ug/L	98
74) 1,3,5-trimethylbenzene	18.45	105	572525	18.903 ug/L	98
75) tert-butylbenzene	18.84	119	581694	19.428 ug/L	97
76) 1,2,4-trimethylbenzene	18.89	105	559101	18.735 ug/L	98
77) sec-butylbenzene	19.06	105	813532	19.881 ug/L	99
78) 1,3-dichlorobenzeneV	19.32	146	381280	19.274 ug/L	96
79) p-isopropyltoluene	19.18	119	711259	20.459 ug/L	98
80) 1,4-dichlorobenzeneV	19.42	146	402395	20.449 ug/L	96
81) 1,2-dichlorobenzeneV	19.78	146	353899	19.254 ug/L	95
82) n-butylbenzene	19.58	91	575445	20.022 ug/L	99
84) 1,2-dibromo-3-chloropropan	20.52	157	27693	19.911 ug/L	94
85) 1,3,5-trichlorobenzV	20.75	180	218759	19.208 ug/L	96
86) 1,2,4-trichlorobenzV	21.44	180	189880	19.726 ug/L	96
87) hexachlorobutadieneV	21.56	225	82190	18.704 ug/L	96
88) naphthaleneV	21.76	128	414631	18.440 ug/L	99
89) 1,2,3-trichlorobenzV	22.05	180	158761	19.013 ug/L	96

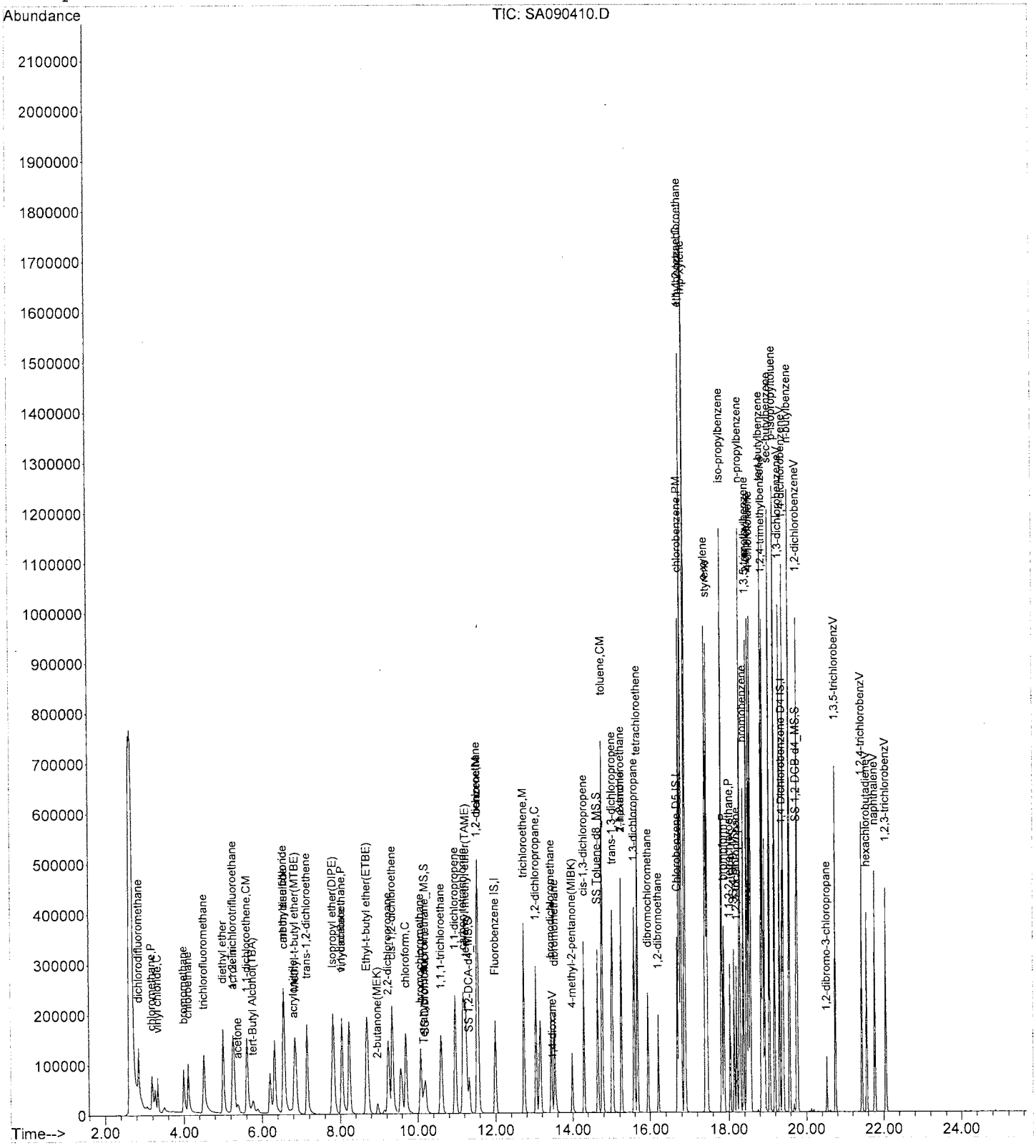
Below 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090410.D Vial: 10
Acq On : 4 Sep 2012 2:15 pm Operator: BAM
Sample : 113653.07 MSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090411.D Vial: 11
Acq On : 4 Sep 2012 2:49 pm Operator: BAM
Sample : 113653.08 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:18 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	271862	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	208706	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	109352	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	64264	10.51 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.08%		
35) SS 1,2-DCA-d4_MS	11.32	65	69789	9.43 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.26%		
48) SS Toluene-d8_MS	14.65	98	267339	9.98 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.84%		
65) SS 4-BFB_MS	18.13	95	99664	9.59 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.93%		
83) SS 1,2-DCB-d4_MS	19.75	152	105019	10.19 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.90%		
90) SS 2,5-DBT_MS	0.00	250	0	0.00 ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#		
Target Compounds					Qvalue
6) chloroethane	4.11	64	41100	8.258 ug/L	98
8) diethyl ether	5.01	59	65871	12.134 ug/L	99
11) acetone	5.38	43	2463	1.611 ug/L	98
13) tert-Butyl Alcohol(TBA)	5.77	59	4713	8.392 ug/L #	75
16) carbon disulfide	6.57	76	9464	0.477 ug/L	99
29) Tetrahydrofuran(THF)	10.16	42	6817	4.084 ug/L	98
37) benzene	11.55	78	47416	1.513 ug/L #	96
41) 1,4-dioxaneV	13.48	88	1061	15.384 ug/L #	93
57) chlorobenzene	16.74	112	132839	5.543 ug/L	97
64) iso-propylbenzene	17.83	105	22807	0.632 ug/L	98
80) 1,4-dichlorobenzeneV	19.42	146	19461	1.080 ug/L #	88
81) 1,2-dichlorobenzeneV	19.77	146	8623	0.512 ug/L #	1
85) 1,3,5-trichlorobenzV	20.75	180	3609	0.346 ug/L	96
86) 1,2,4-trichlorobenzV	21.44	180	3766	0.427 ug/L	98
88) naphthaleneV	21.76	128	7659	0.372 ug/L #	96
89) 1,2,3-trichlorobenzV	22.05	180	3845	0.503 ug/L	95

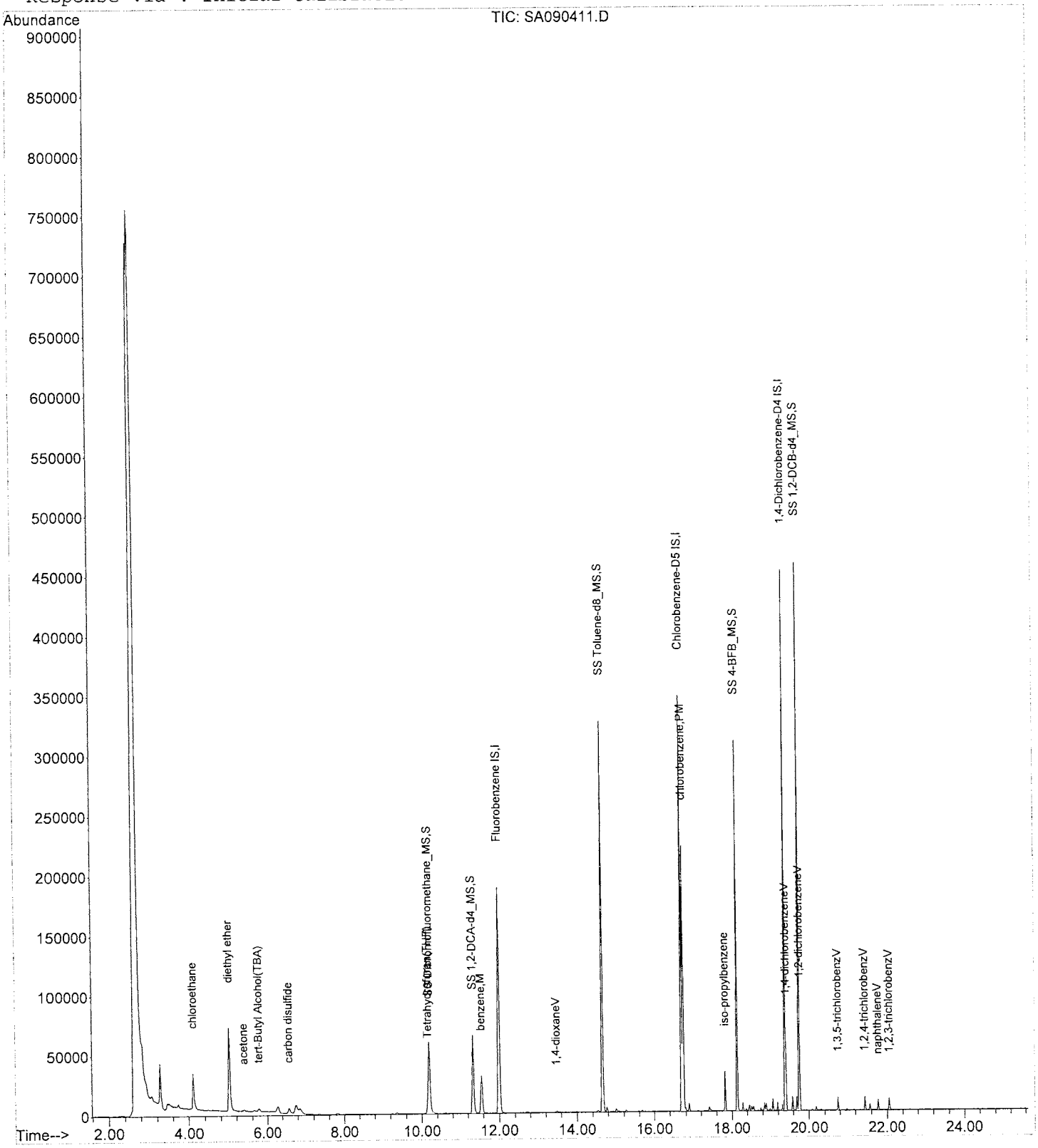
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090411.D Vial: 11
Acq On : 4 Sep 2012 2:49 pm Operator: BAM
Sample : 113653.08 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090412.D Vial: 12
Acq On : 4 Sep 2012 3:23 pm Operator: BAM
Sample : 113653.09 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:22 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	266597	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206080	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	105097	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	62482	10.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.18%			
35) SS 1,2-DCA-d4_MS	11.33	65	68727	9.47	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.66%			
48) SS Toluene-d8_MS	14.65	98	262498	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.28%			
65) SS 4-BFB_MS	18.13	95	96153	9.37	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.73%			
83) SS 1,2-DCB-d4_MS	19.75	152	101531	10.25	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.50%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.38	43	1037	0.692	ug/L #	47
16) carbon disulfide	6.57	76	8108	0.417	ug/L	96

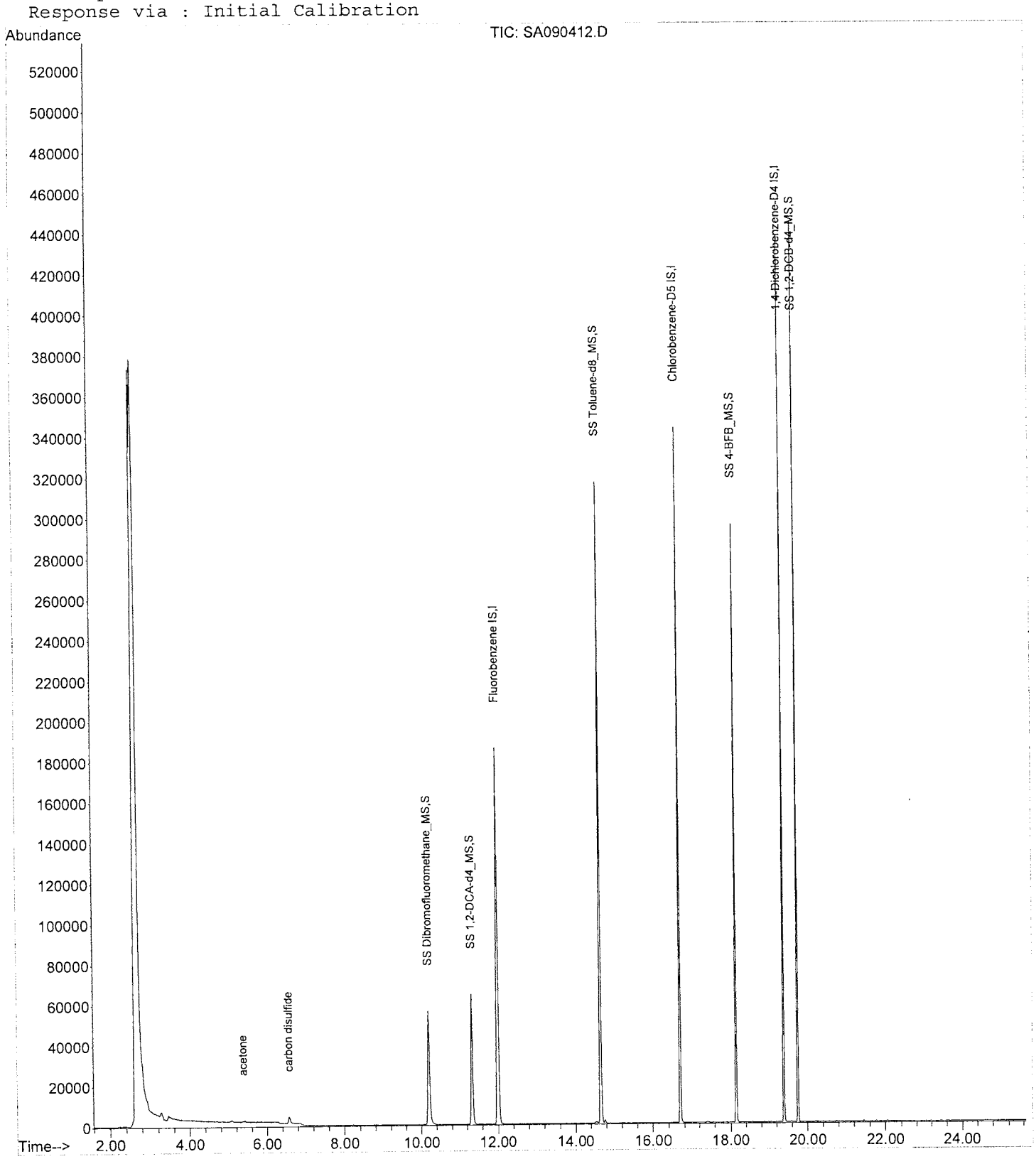
Bdeu 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090412.D 5VID0806.M Wed Sep 05 07:23:23 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090412.D Vial: 12
Acq On : 4 Sep 2012 3:23 pm Operator: BAM
Sample : 113653.09 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090413.D Vial: 13
Acq On : 4 Sep 2012 3:57 pm Operator: BAM
Sample : 113653.10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:26 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	265001	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	204378	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	105914	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	62251	10.44	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.42%			
35) SS 1,2-DCA-d4_MS	11.32	65	68514	9.49	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.94%			
48) SS Toluene-d8_MS	14.65	98	261907	9.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.88%			
65) SS 4-BFB_MS	18.13	95	95404	9.38	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.77%			
83) SS 1,2-DCB-d4_MS	19.75	152	101396	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.58%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.38	43	1050	0.705	ug/L #	47
16) carbon disulfide	6.57	76	8029	0.415	ug/L #	92

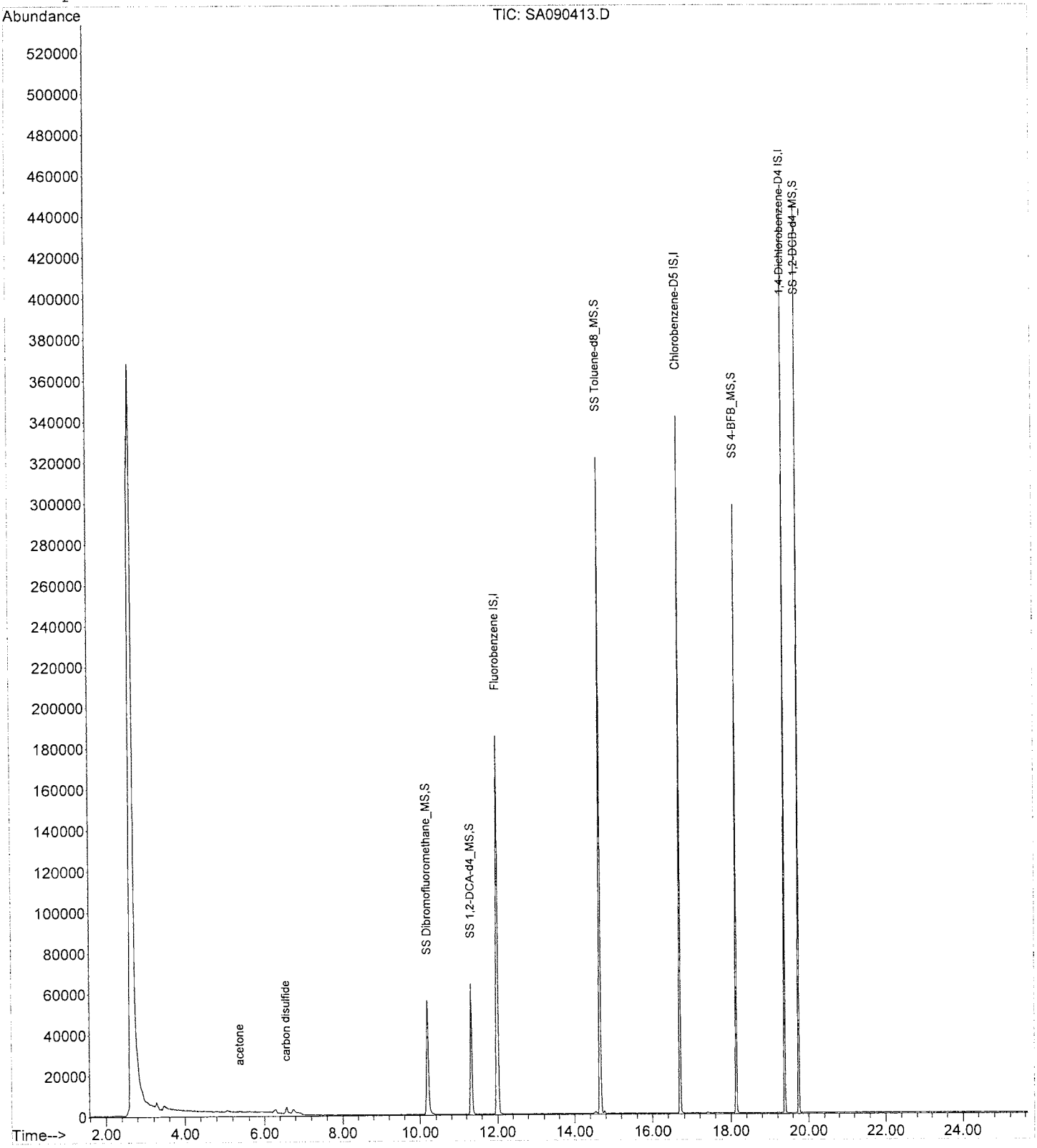
Bdm 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090413.D 5VID0806.M Wed Sep 05 07:23:27 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090413.D Vial: 13
Acq On : 4 Sep 2012 3:57 pm Operator: BAM
Sample : 113653.10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090414.D Vial: 14
Acq On : 4 Sep 2012 4:31 pm Operator: BAM
Sample : 113653.11 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:30 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	259136	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	199299	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	102285	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	60538	10.38	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.84%			
35) SS 1,2-DCA-d4_MS	11.33	65	67849	9.61	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.14%			
48) SS Toluene-d8_MS	14.65	98	256078	10.01	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.15%			
65) SS 4-BFB_MS	18.13	95	92850	9.36	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.59%			
83) SS 1,2-DCB-d4_MS	19.75	152	99249	10.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.96%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.38	43	1379	0.946	ug/L #	83
16) carbon disulfide	6.57	76	7840	0.415	ug/L	100
18) Methyl-t-butyl ether(MTBE)	6.86	73	14274	0.766	ug/L #	93
36) tert-amyl methyl ether(TAM	11.25	73	6420	0.343	ug/L #	93

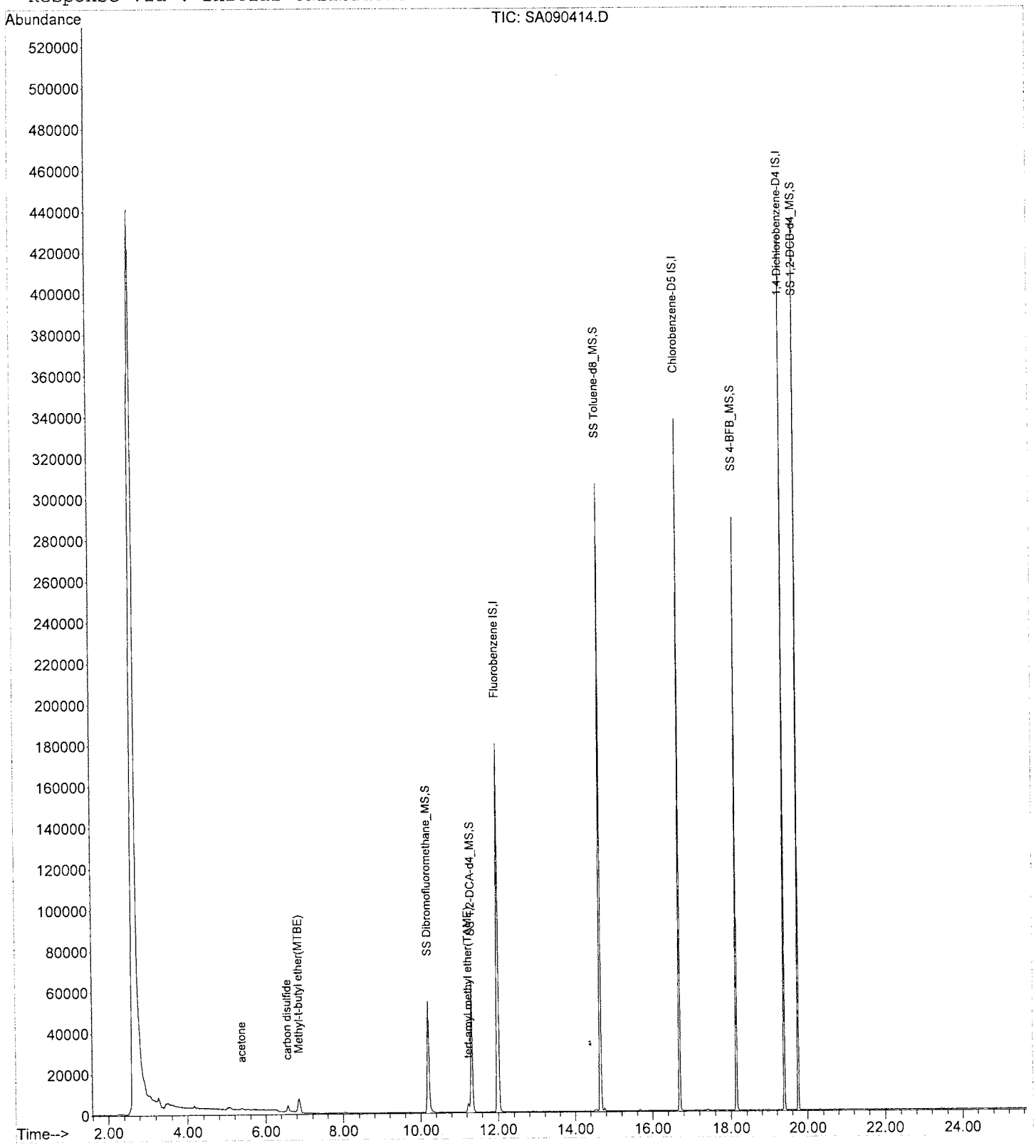
Bdm 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090414.D Vial: 14
Acq On : 4 Sep 2012 4:31 pm Operator: BAM
Sample : 113653.11 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090415.D Vial: 15
Acq On : 4 Sep 2012 5:05 pm Operator: BAM
Sample : 113653.12 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:34 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	258781	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	199552	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	101589	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	60957	10.47	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.71%			
35) SS 1,2-DCA-d4_MS	11.33	65	67675	9.60	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.03%			
48) SS Toluene-d8_MS	14.65	98	255585	9.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.83%			
65) SS 4-BFB_MS	18.13	95	91951	9.26	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 92.56%			
83) SS 1,2-DCB-d4_MS	19.75	152	98367	10.27	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.74%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.39	43	1318	0.906	ug/L #	76
13) tert-Butyl Alcohol(TBA)	5.78	59	242	0.453	ug/L #	54
16) carbon disulfide	6.57	76	7592	0.402	ug/L #	93

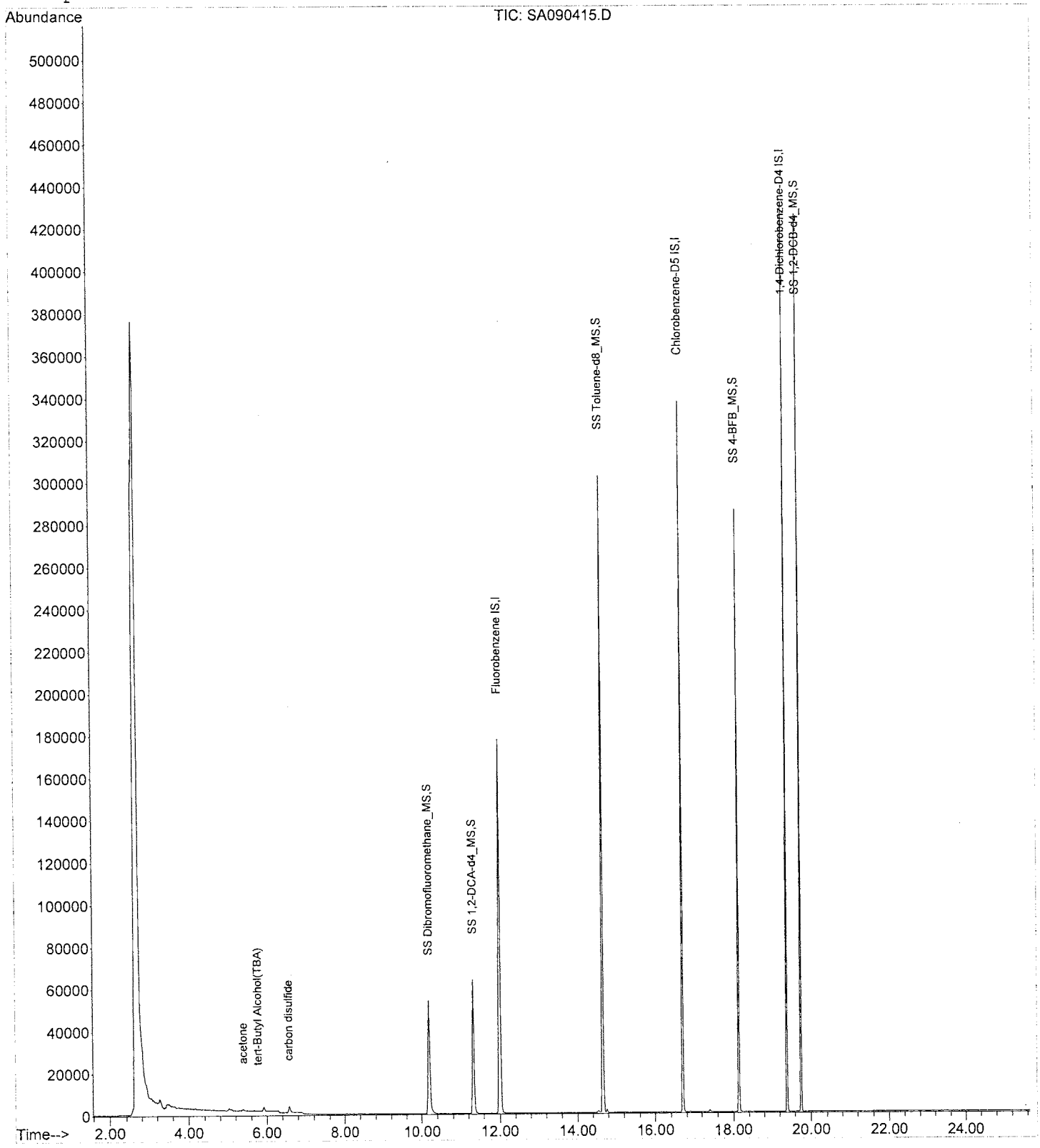
Bdm 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090415.D Vial: 15
Acq On : 4 Sep 2012 5:05 pm Operator: BAM
Sample : 113653.12 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090416.D Vial: 16
Acq On : 4 Sep 2012 5:39 pm Operator: BAM
Sample : 113653.13 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:37 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	251550	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	195536	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	101066	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	58310	10.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.04%			
35) SS 1,2-DCA-d4_MS	11.33	65	65763	9.60	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.00%			
48) SS Toluene-d8_MS	14.65	98	249567	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.48%			
65) SS 4-BFB_MS	18.13	95	89549	9.20	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 92.00%			
83) SS 1,2-DCB-d4_MS	19.75	152	97931	10.28	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.81%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.38	43	1115	0.788	ug/L #	66
16) carbon disulfide	6.57	76	6927	0.377	ug/L #	71

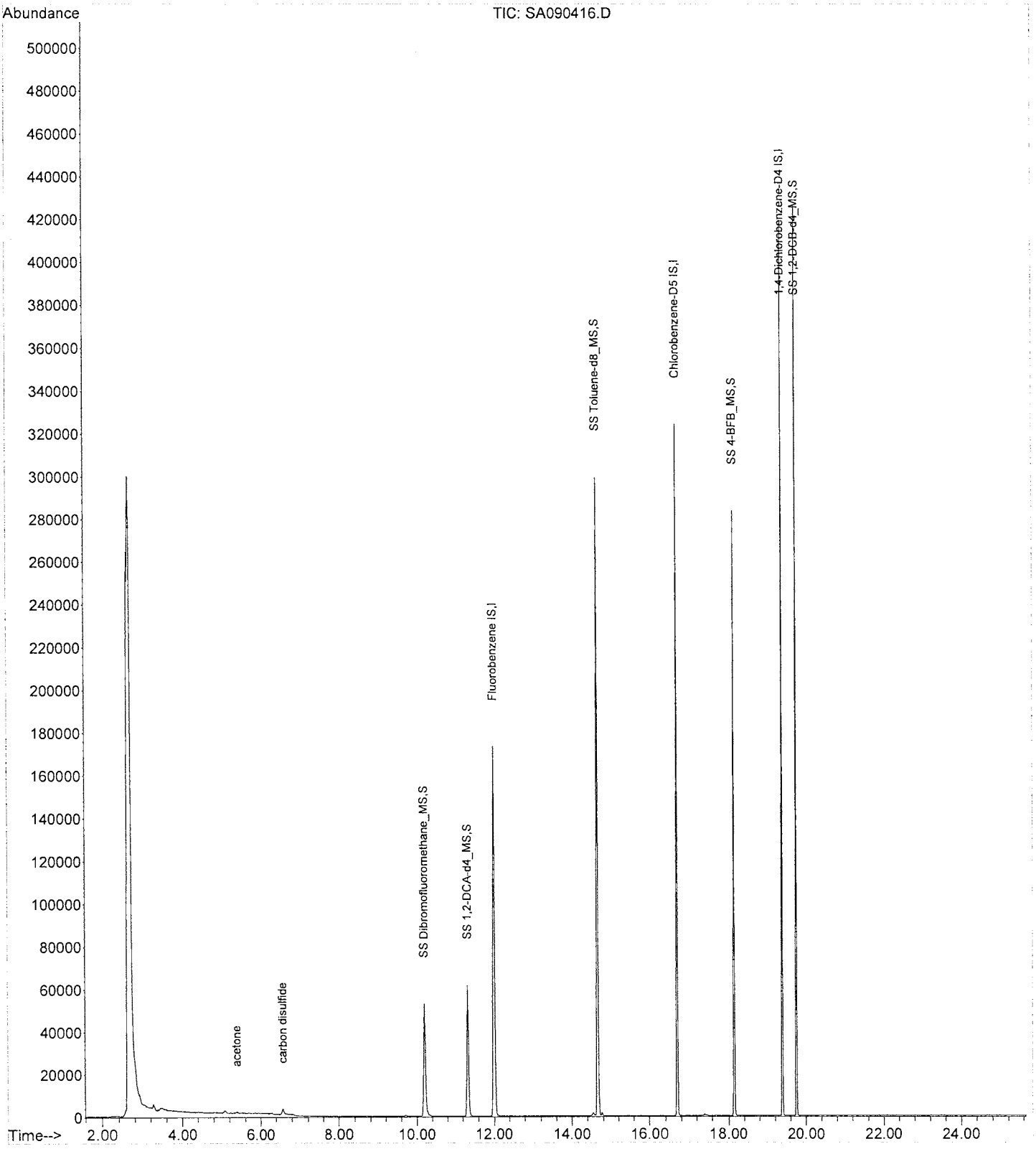
Bdm 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090416.D Vial: 16
Acq On : 4 Sep 2012 5:39 pm Operator: BAM
Sample : 113653.13 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090417.D Vial: 17
Acq On : 4 Sep 2012 6:13 pm Operator: BAM
Sample : 113653.18 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:40 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	268697	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	207720	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	108007	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	63903	10.57	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.72%			
35) SS 1,2-DCA-d4_MS	11.32	65	70475	9.63	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.31%			
48) SS Toluene-d8_MS	14.65	98	264904	9.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.40%			
65) SS 4-BFB_MS	18.13	95	99410	9.61	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.14%			
83) SS 1,2-DCB-d4_MS	19.75	152	105219	10.34	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.37%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.11	64	18020	3.663	ug/L	99
8) diethyl ether	5.01	59	55001	10.251	ug/L	98
11) acetone	5.38	43	2221	1.470	ug/L #	88
13) tert-Butyl Alcohol(TBA)	5.77	59	6725	12.116	ug/L #	79
16) carbon disulfide	6.57	76	6913	0.353	ug/L #	77
29) Tetrahydrofuran(THF)	10.16	42	13491	8.177	ug/L	97
37) benzene	11.56	78	49716	1.605	ug/L #	96
41) 1,4-dioxaneV	13.48	88	1031	15.125	ug/L #	91
49) toluene	14.77	91	13998	0.414	ug/L	98
57) chlorobenzene	16.74	112	357392	14.983	ug/L	97
64) iso-propylbenzene	17.83	105	42294	1.178	ug/L	99
78) 1,3-dichlorobenzeneV	~~19.42~~	146	35520	~~1.985~~	ug/L	97
80) 1,4-dichlorobenzeneV	19.42	146	35520	1.996	ug/L #	93
81) 1,2-dichlorobenzeneV	19.77	146	17289	1.040	ug/L #	48

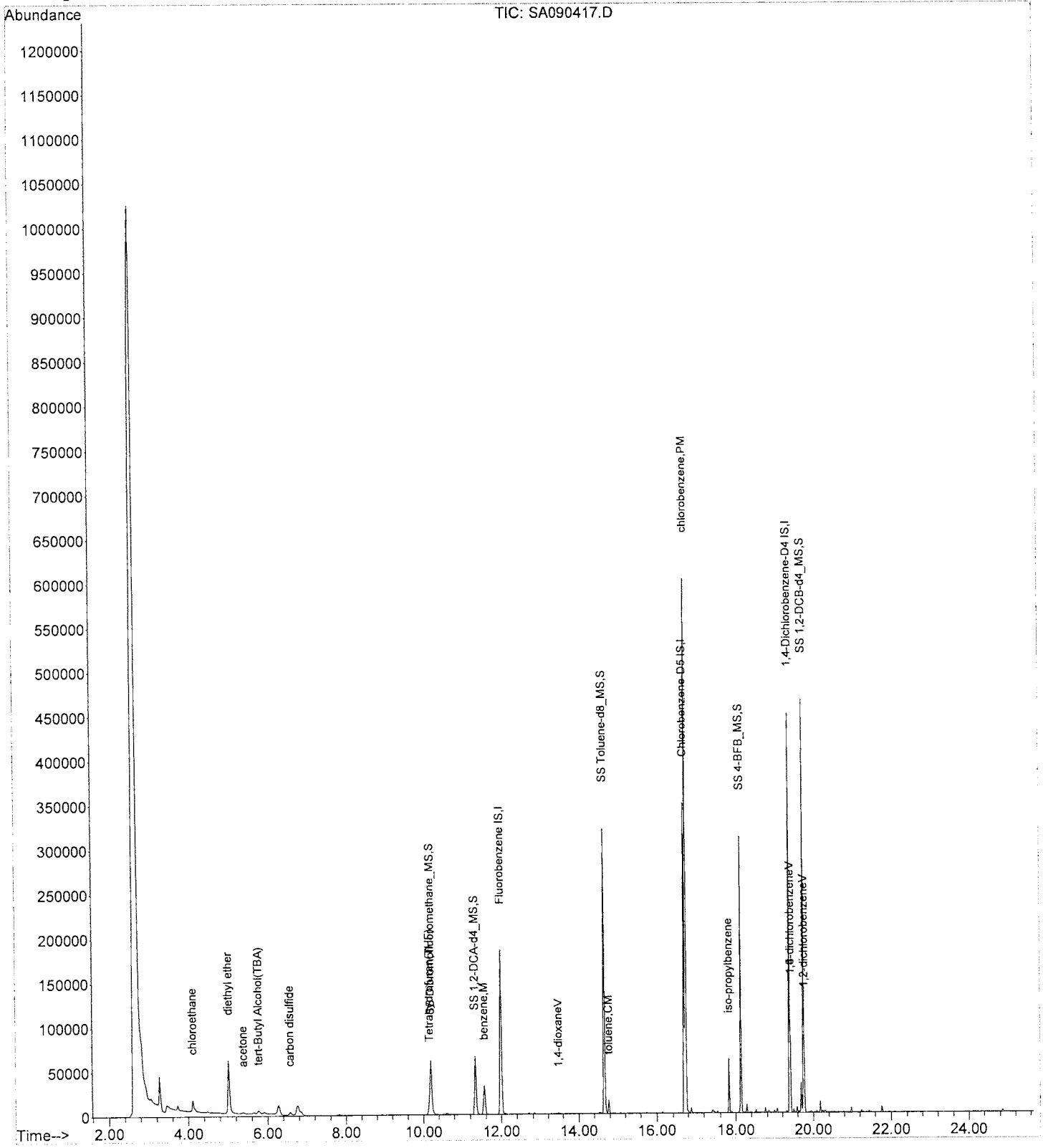
Bdeu 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090417.D 5VID0806.M Wed Sep 05 07:23:41 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090417.D Vial: 17
Acq On : 4 Sep 2012 6:13 pm Operator: BAM
Sample : 113653.18 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090418.D Vial: 18
Acq On : 4 Sep 2012 6:47 pm Operator: BAM
Sample : 113653.16 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:44 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	261550	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201715	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	105637	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61762	10.50	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.97%			
35) SS 1,2-DCA-d4_MS	11.32	65	67773	9.51	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.15%			
48) SS Toluene-d8_MS	14.65	98	256865	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.25%			
65) SS 4-BFB_MS	18.13	95	95008	9.46	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.62%			
83) SS 1,2-DCB-d4_MS	19.75	152	102678	10.31	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.13%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.12	64	29689	6.200	ug/L	97
8) diethyl ether	5.02	59	64281	12.308	ug/L	98
11) acetone	5.38	43	1603	1.090	ug/L	100
13) tert-Butyl Alcohol(TBA)	5.77	59	4329	8.013	ug/L #	79
16) carbon disulfide	6.57	76	6808	0.357	ug/L #	74
29) Tetrahydrofuran(THF)	10.16	42	4434	2.761	ug/L	97
37) benzene	11.55	78	35632	1.182	ug/L	97
41) 1,4-dioxaneV	13.50	88	1033	15.569	ug/L #	90
57) chlorobenzene	16.74	112	92898	4.010	ug/L	97
64) iso-propylbenzene	17.82	105	11807	0.339	ug/L	100
78) 1,3-dichlorobenzeneV	~~19.42~~	146	22060	~~1.261~~	ug/L #	93
80) 1,4-dichlorobenzeneV	19.42	146	22060	1.267	ug/L #	90
81) 1,2-dichlorobenzeneV	19.77	146	6564	0.404	ug/L #	1

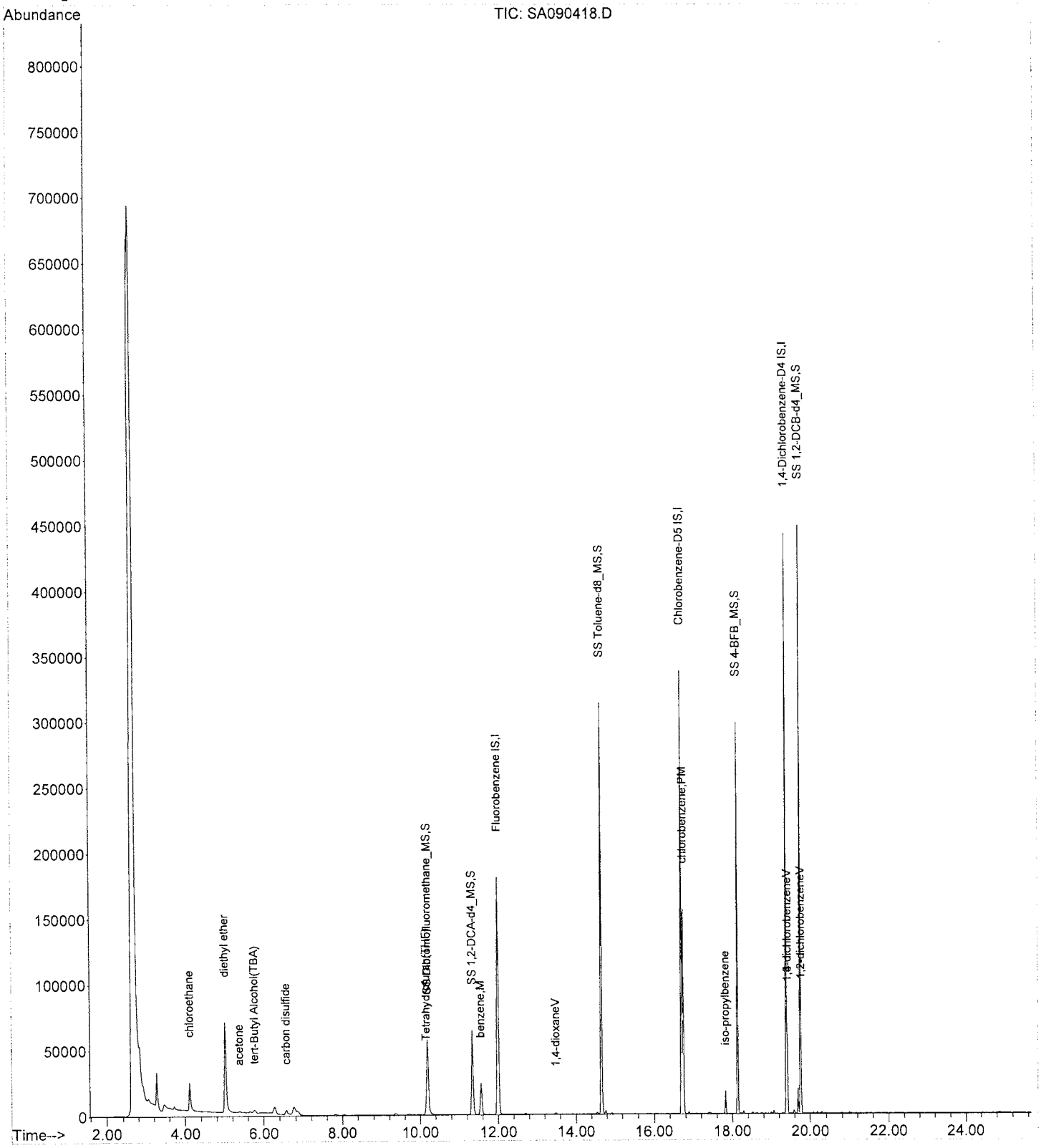
Reviewed 9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090418.D Vial: 18
Acq On : 4 Sep 2012 6:47 pm Operator: BAM
Sample : 113653.16 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090419.D Vial: 19
Acq On : 4 Sep 2012 7:21 pm Operator: BAM
Sample : 113653.17 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:23:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	253214	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	197950	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	103430	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	59408	10.43	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.29%			
35) SS 1,2-DCA-d4_MS	11.33	65	66599	9.66	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.58%			
48) SS Toluene-d8_MS	14.65	98	251945	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.21%			
65) SS 4-BFB_MS	18.13	95	93887	9.53	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.28%			
83) SS 1,2-DCB-d4_MS	19.75	152	101315	10.39	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.93%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.12	64	28543	6.157	ug/L	99
8) diethyl ether	5.02	59	66726	13.197	ug/L	98
11) acetone	5.38	43	1742	1.223	ug/L	93
13) tert-Butyl Alcohol(TBA)	5.76	59	3951	7.554	ug/L #	84
16) carbon disulfide	6.57	76	6596	0.357	ug/L #	81
29) Tetrahydrofuran(THF)	10.16	42	3824	2.459	ug/L	97
37) benzene	11.56	78	45228	1.549	ug/L	97
41) 1,4-dioxaneV	13.53	88	37	0.576	ug/L #	28
57) chlorobenzene	16.74	112	90649	3.988	ug/L	97
64) iso-propylbenzene	17.83	105	19880	0.581	ug/L	99
78) 1,3-dichlorobenzeneV	~~19.42~~	146	18390	~~1.073~~	ug/L #	92
80) 1,4-dichlorobenzeneV	19.42	146	18390	1.079	ug/L #	88
81) 1,2-dichlorobenzeneV	19.78	146	6513	0.409	ug/L #	68

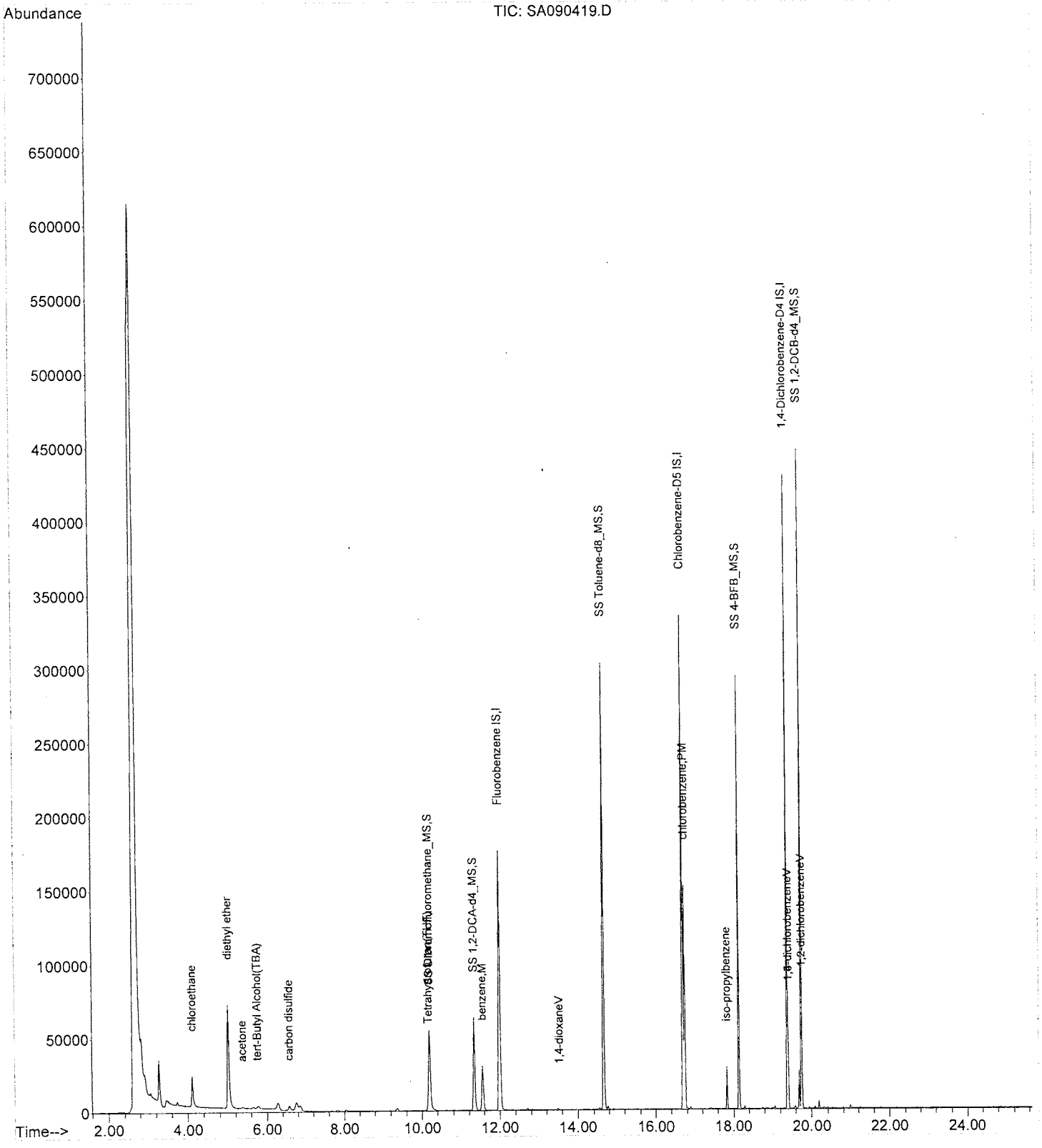
9/6/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090419.D 5VID0806.M Wed Sep 05 07:23:48 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0412\SA090419.D Vial: 19
Acq On : 4 Sep 2012 7:21 pm Operator: BAM
Sample : 113653.17 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:23 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090420.D Vial: 20
Acq On : 4 Sep 2012 7:56 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:27:17 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	264936	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206398	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	118657	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	63258	10.61	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.13%			
35) SS 1,2-DCA-d4_MS	11.33	65	68212	9.45	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.54%			
48) SS Toluene-d8_MS	14.65	98	264892	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.03%			
65) SS 4-BFB_MS	18.13	95	102708	10.00	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.96%			
83) SS 1,2-DCB-d4_MS	19.75	152	111809	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.98%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	104746	11.966	ug/L	99
3) chloromethane	3.19	50	114902	14.167	ug/L	100
4) vinyl chloride	3.34	62	63584	14.837	ug/L	99
5) bromomethane	3.99	94	77020	14.756	ug/L	99
6) chloroethane	4.11	64	83477	17.211	ug/L	99
7) trichlorofluoromethane	4.52	101	183674	16.395	ug/L	99
8) diethyl ether	5.02	59	90070	17.026	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	133710	17.287	ug/L	99
10) acrolein	5.28	56	1452	2.477	ug/L #	70
11) acetone	5.38	43	27172	18.239	ug/L	99
12) 1,1-dichloroethene	5.61	96	118293	16.279	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.78	59	42289	77.272	ug/L #	84
15) methylene chloride	6.55	84	137440	18.199	ug/L	97
16) carbon disulfide	6.57	76	315374	16.315	ug/L	99
17) acrylonitrile	6.82	53	37871	15.724	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	299633	15.736	ug/L #	95
19) trans-1,2-dichloroethene	7.15	96	123744	17.839	ug/L	95
21) Isopropyl ether(DIPE)	7.81	45	357525	16.814	ug/L	98
22) vinyl acetate	8.05	43	167892	13.323	ug/L	97
23) 1,1-dichloroethane	8.04	63	221295	18.061	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	330190	16.700	ug/L	97
25) 2,2-dichloropropane	9.24	77	142318	13.538	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	179445	19.176	ug/L	99
27) 2-butanone(MEK)	8.96	43	42129	16.405	ug/L	97
28) bromochloromethane	10.08	128	69468	18.453	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	28287	17.388	ug/L	96
30) chloroform	9.71	83	224124	18.230	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	178225	16.469	ug/L	99
33) carbon tetrachloride	11.17	117	154085	16.069	ug/L	98
34) 1,1-dichloropropene	10.97	75	181770	17.553	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	318485	16.656	ug/L #	60
37) benzene	11.56	78	583812	19.112	ug/L	98
38) 1,2-dichloroethane	11.53	62	163645	17.117	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090420.D Vial: 20
Acq On : 4 Sep 2012 7:56 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:27:17 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

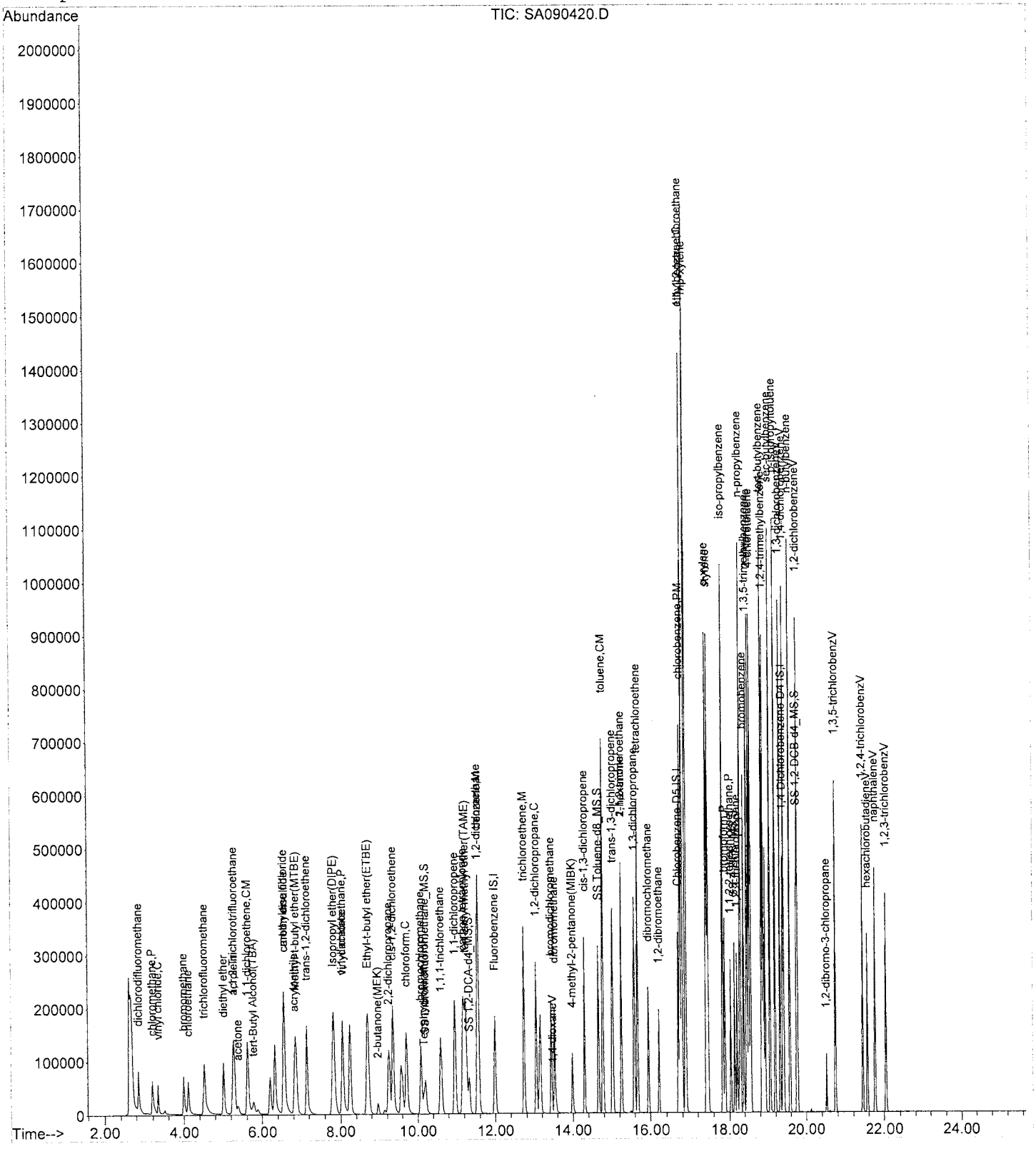
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	12.73	95	148044	17.672	ug/L		96
40)	1,2-dichloropropane	13.05	63	134640	18.497	ug/L		96
41)	1,4-dioxaneV	13.48	88	1654	24.610	ug/L	#	62
42)	dibromomethane	13.53	93	83396	18.828	ug/L		97
43)	bromodichloromethane	13.44	83	163173	17.886	ug/L		99
45)	4-methyl-2-pentanone(MIBK)	13.98	58	35739	17.344	ug/L		98
46)	cis-1,3-dichloropropene	14.30	75	193288	17.626	ug/L		93
49)	toluene	14.77	91	625983	18.620	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	177988	16.732	ug/L	#	85
51)	1,1,2-trichloroethane	15.25	83	103212	19.209	ug/L		97
52)	2-hexanone	15.25	43	61565	16.935	ug/L		97
53)	tetrachloroethene	15.67	166	190521	20.689	ug/L	#	95
54)	1,3-dichloropropane	15.59	76	213392	18.408	ug/L		95
55)	dibromochloromethane	15.95	129	126562	16.885	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	125787	18.518	ug/L		99
57)	chlorobenzene	16.74	112	439394	18.539	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	141755	18.446	ug/L		99
59)	ethylbenzene	16.79	91	724334	19.214	ug/L		99
60)	mp-xylene	16.89	106	598186	38.689	ug/L		97
61)	o-xylene	17.41	106	282518	18.595	ug/L		98
62)	styrene	17.46	104	485832	19.778	ug/L		98
63)	bromoform	17.88	173	81267	17.848	ug/L	#	93
64)	iso-propylbenzene	17.83	105	726827	20.381	ug/L		99
67)	bromobenzene	18.38	156	192783	18.174	ug/L		95
68)	1,1,2,2-tetrachloroethane	18.03	83	139341	18.883	ug/L		99
69)	1,2,3-trichloropropane	18.20	110	46506	17.716	ug/L		98
71)	n-propylbenzene	18.28	91	846300	18.410	ug/L		99
72)	2-chlorotoluene	18.51	91	507389	17.540	ug/L		98
73)	4-chlorotoluene	18.56	91	510845	17.687	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	526724	17.501	ug/L		98
75)	tert-butylbenzene	18.84	119	535098	17.985	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	512986	17.299	ug/L		98
77)	sec-butylbenzene	19.06	105	732680	18.019	ug/L		99
78)	1,3-dichlorobenzeneV	19.32	146	362387	18.436	ug/L		96
79)	p-isopropyltoluene	19.19	119	645522	18.686	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	365043	18.669	ug/L		96
81)	1,2-dichlorobenzeneV	19.78	146	334947	18.339	ug/L		95
82)	n-butylbenzene	19.58	91	508327	17.799	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	27462	19.870	ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	198081	17.503	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	175217	18.319	ug/L		95
87)	hexachlorobutadieneV	21.56	225	69471	15.911	ug/L		96
88)	naphthaleneV	21.76	128	394943	17.676	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	148618	17.912	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090420.D Vial: 20
Acq On : 4 Sep 2012 7:56 pm Operator: BAM
Sample : LCS Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:27 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090421.D Vial: 21
Acq On : 4 Sep 2012 8:30 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:28:13 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	269460	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	210042	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	119465	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	63753	10.52	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.17%			
35) SS 1,2-DCA-d4_MS	11.33	65	67066	9.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.39%			
48) SS Toluene-d8_MS	14.65	98	267593	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
65) SS 4-BFB_MS	18.13	95	103915	9.94	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.38%			
83) SS 1,2-DCB-d4_MS	19.75	152	113160	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.50%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	109592	12.310	ug/L	100
3) chloromethane	3.19	50	117677	14.265	ug/L	99
4) vinyl chloride	3.34	62	66315	15.215	ug/L	99
5) bromomethane	3.99	94	85033	16.018	ug/L	99
6) chloroethane	4.11	64	86082	17.450	ug/L	99
7) trichlorofluoromethane	4.52	101	190658	16.732	ug/L	99
8) diethyl ether	5.02	59	92457	17.183	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	137613	17.492	ug/L	99
10) acrolein	5.28	56	1520	2.676	ug/L	98
11) acetone	5.39	43	26726	17.638	ug/L	96
12) 1,1-dichloroethene	5.61	96	123240	16.675	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.78	59	43165	77.549	ug/L #	85
15) methylene chloride	6.55	84	141217	18.385	ug/L	97
16) carbon disulfide	6.57	76	333600	16.968	ug/L	100
17) acrylonitrile	6.81	53	38450	15.696	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	313731	16.199	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	130201	18.455	ug/L	95
21) Isopropyl ether(DIPE)	7.82	45	371012	17.155	ug/L	99
22) vinyl acetate	8.05	43	173133	13.509	ug/L	97
23) 1,1-dichloroethane	8.04	63	228123	18.306	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	342808	17.047	ug/L	97
25) 2,2-dichloropropane	9.25	77	151252	14.146	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	188670	19.823	ug/L	98
27) 2-butanone(MEK)	8.96	43	42392	16.230	ug/L	97
28) bromochloromethane	10.08	128	71340	18.633	ug/L	95
29) Tetrahydrofuran(THF)	10.16	42	28276	17.090	ug/L	96
30) chloroform	9.71	83	230137	18.405	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	186824	16.973	ug/L	99
33) carbon tetrachloride	11.17	117	162409	16.652	ug/L	98
34) 1,1-dichloropropene	10.97	75	190172	18.056	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	328081	16.869	ug/L #	61
37) benzene	11.56	78	603817	19.435	ug/L	98
38) 1,2-dichloroethane	11.53	62	166329	17.105	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090421.D Vial: 21
Acq On : 4 Sep 2012 8:30 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 07:28:13 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

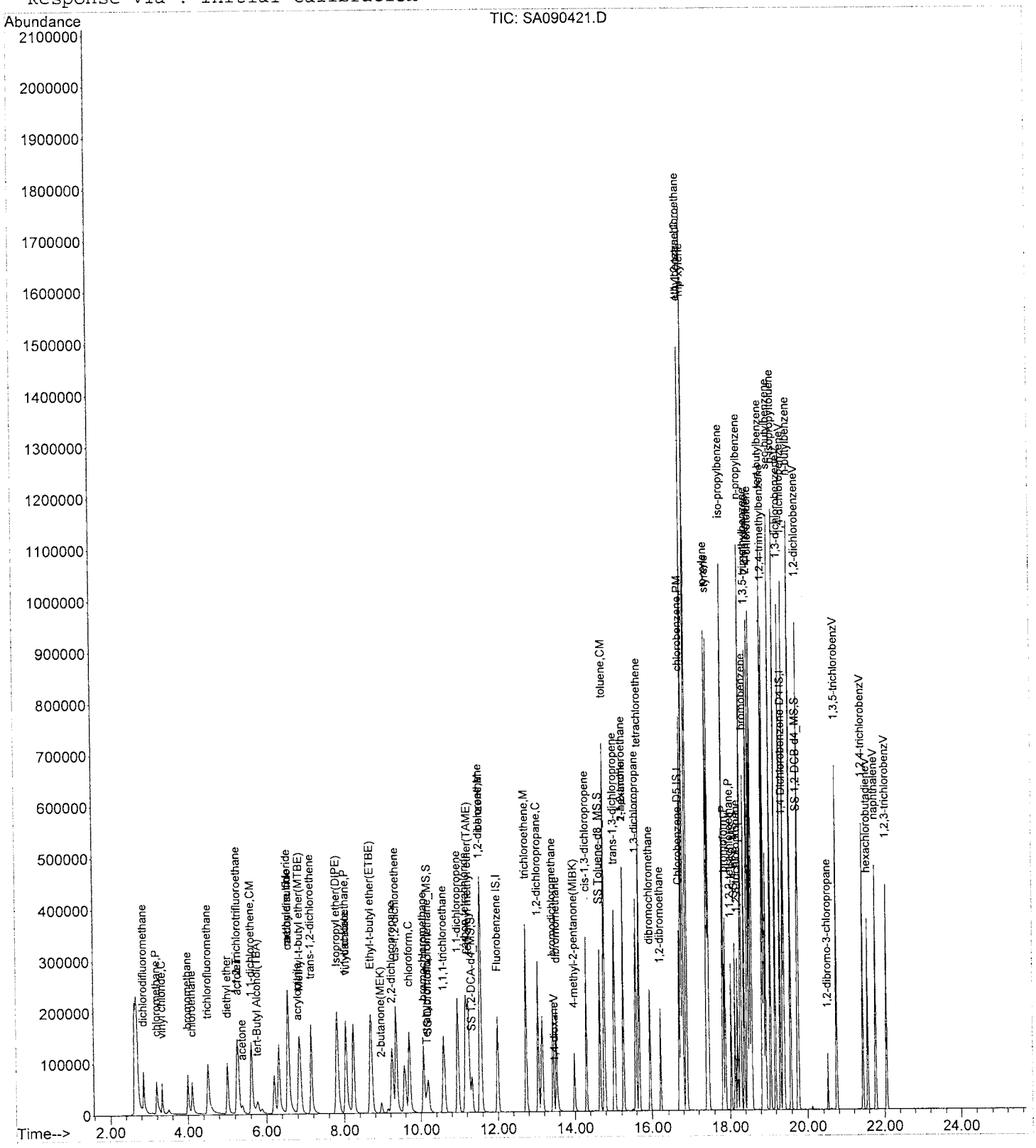
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	12.73	95	153521	18.018 ug/L	96
40)	1,2-dichloropropane	13.05	63	138404	18.694 ug/L	95
41)	1,4-dioxaneV	13.48	88	1607	23.509 ug/L #	62
42)	dibromomethane	13.53	93	84905	18.847 ug/L	96
43)	bromodichloromethane	13.44	83	166563	17.951 ug/L	99
45)	4-methyl-2-pentanone(MIBK)	13.98	58	35899	17.129 ug/L	98
46)	cis-1,3-dichloropropene	14.30	75	199940	17.926 ug/L	93
49)	toluene	14.77	91	648199	18.946 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	181647	16.780 ug/L #	85
51)	1,1,2-trichloroethane	15.25	83	104908	19.186 ug/L	97
52)	2-hexanone	15.25	43	62338	16.850 ug/L	97
53)	tetrachloroethene	15.67	166	199168	21.252 ug/L #	95
54)	1,3-dichloropropane	15.60	76	217943	18.474 ug/L	96
55)	dibromochloromethane	15.95	129	129168	16.927 ug/L #	100
56)	1,2-dibromoethane	16.22	107	128033	18.522 ug/L #	99
57)	chlorobenzene	16.74	112	454532	18.845 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	146954	18.791 ug/L	99
59)	ethylbenzene	16.79	91	749310	19.531 ug/L	99
60)	mp-xylene	16.89	106	617523	39.246 ug/L	96
61)	o-xylene	17.41	106	294351	19.037 ug/L	97
62)	styrene	17.46	104	498427	19.939 ug/L	98
63)	bromoform	17.88	173	82140	17.746 ug/L	93
64)	iso-propylbenzene	17.83	105	754159	20.781 ug/L	99
67)	bromobenzene	18.38	156	197494	18.492 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	138436	18.634 ug/L	99
69)	1,2,3-trichloropropane	18.20	110	46347	17.536 ug/L	98
71)	n-propylbenzene	18.28	91	874527	18.896 ug/L	99
72)	2-chlorotoluene	18.51	91	519876	17.850 ug/L	98
73)	4-chlorotoluene	18.56	91	528719	18.182 ug/L	98
74)	1,3,5-trimethylbenzene	18.45	105	551133	18.188 ug/L	98
75)	tert-butylbenzene	18.84	119	557452	18.610 ug/L	98
76)	1,2,4-trimethylbenzene	18.89	105	536481	17.969 ug/L	98
77)	sec-butylbenzene	19.06	105	768607	18.775 ug/L	99
78)	1,3-dichlorobenzeneV	19.32	146	371927	18.793 ug/L	96
79)	p-isopropyltoluene	19.19	119	674935	19.406 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	376399	19.120 ug/L	96
81)	1,2-dichlorobenzeneV	19.77	146	342296	18.615 ug/L	96
82)	n-butylbenzene	19.58	91	536512	18.659 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	27440	19.720 ug/L	95
85)	1,3,5-trichlorobenzV	20.75	180	210036	18.434 ug/L	95
86)	1,2,4-trichlorobenzV	21.44	180	184449	19.154 ug/L	96
87)	hexachlorobutadieneV	21.56	225	76095	17.310 ug/L	97
88)	naphthaleneV	21.76	128	407418	18.111 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	156639	18.751 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0412\SA090421.D Vial: 21
Acq On : 4 Sep 2012 8:30 pm Operator: BAM
Sample : LCSD Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 7:28 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



VOAMS5 Analysis Run Log

IS/SS ID= V- 3975
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3970 (G) 3963 (L)

Analyst: Blue

Date: 9/5/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A090501	BFB					VOCMS	5V1D0806	Auto Find		✓
2		STD2					VOCMS				✓
3		STD20					VOCMS		BM, Acrolein↓		✓
4		MB					VOCMS				✓
5		113653.20		✓		x1	VOCMS				
6		.22		✓			VOCMS				
7		113714.01		✓			VOCMS				
8		113743.03		✓			VOCMS				
9		.04		✓			VOCMS				
10		.05		✓			VOCMS				
11		.06		✓			VOCMS				
12		.07		✓			VOCMS				
13		113715.01		✓			VOCMS				
14		.02		✓			VOCMS				
15		.03		✓			VOCMS				
16		113689.03		✓			VOCMS				
17		.06		✓			VOCMS				
18		.07		✓			VOCMS				
19		.11		✓			VOCMS				
20		LCS20					VOCMS			✓	✓
21		LCSD20					VOCMS			✓	✓
							VOCMS				
							VOCMS				
							VOCMS				
							VOCMS				
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							VOCMS				

Samples removed from autosampler ✓, order ✓ and pH ✓ verified by Blue 9/6/12 1-21

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\SEPT0512\SA090501.D
Tune Time : 5 Sep 2012 7:42 am

Daily Calibration File : C:\MSDCHEM\1\DATA\SEPT0512\SA090503.D

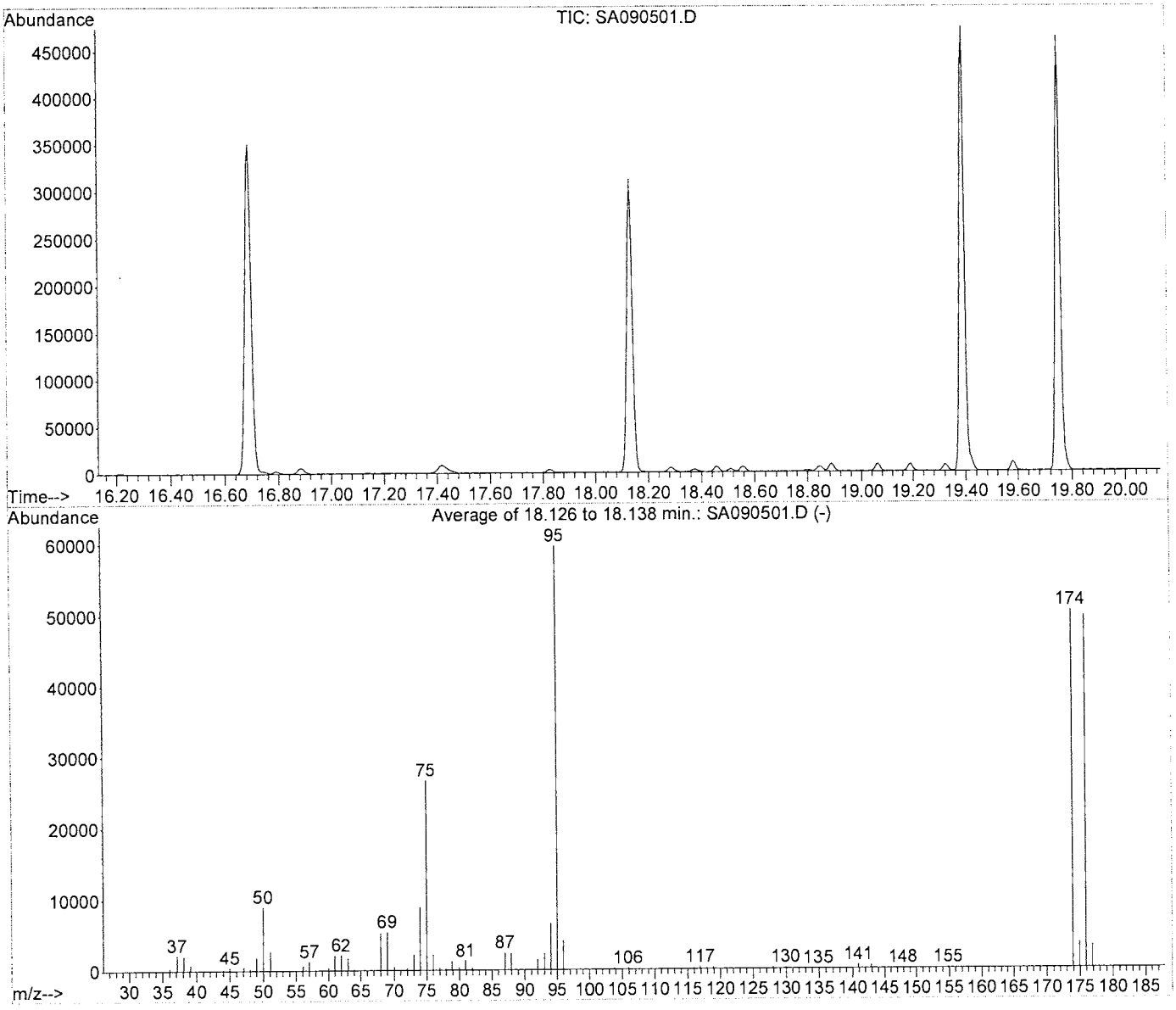
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File	Sample	Surrogate Recovery %				Internal Standard Responses		
SA090502.D	STD 2	106	94	100	97	269300	206339	113053
		99	21*					
SA090503.D	STD 20	107	92	100	100	271470	211994	121817
		99	50*					
SA090504.D	MB	103	93	99	95	264916	203570	107192
		102	20*					
SA090505.D	113653.20	103	93	100	94	266037	204559	106903
		101	0*					
SA090506.D	113653.21	103	94	100	93	251235	194964	100622
		104	0*					
SA090507.D	113714.01	104	94	100	94	262185	202059	105346
		102	0*					
SA090508.D	113743.03	105	95	100	94	262271	203253	105197
		104	0*					
SA090509.D	113743.04	105	95	99	94	252744	196405	102670
		103	0*					
SA090510.D	113743.05	106	96	99	93	247780	195406	101281
		103	0*					
SA090511.D	113743.06	107	96	99	92	244988	192478	99506
		103	0*					
SA090512.D	113743.07	105	96	99	93	251905	195554	100118
		103	0*					
SA090513.D	113715.01	106	96	99	94	247013	193493	100470
		104	0*					
SA090514.D	113715.02	107	96	99	94	242760	189975	99786
		103	0*					
SA090515.D	113715.03	107	96	99	93	258786	203223	105900
		103	0*					
SA090516.D	113689.03	106	96	99	95	258676	201761	104940
		104	0*					
SA090517.D	113689.06	105	97	99	93	243261	189849	98243
		104	0*					
SA090518.D	113689.07	104	95	100	94	258251	200433	104903
		103	0*					
SA090519.D	113689.11	105	93	99	97	256376	198532	106087
		104	0*					
SA090520.D	LCS 20	109	94	99	102	255515	201783	117631
		99	0*					
SA090521.D	LCSD 20	106	94	100	100	263083	206767	118507
		99	0*					

t - fails 12hr time check * - fails criteria

Created: Fri Sep 07 14:05:44 2012 VOAMS5

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090501.D Vial: 1
Acq On : 5 Sep 2012 7:42 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



AutoFind: Scans 2720, 2721, 2722; Background Corrected with Scan 2712

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	9015	PASS
75	95	30	60	44.7	26669	PASS
95	95	100	100	100.0	59674	PASS
96	95	5	9	7.0	4154	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	50320	PASS
175	174	5	9	7.0	3516	PASS
176	174	95	101	98.5	49578	PASS
177	176	5	9	6.5	3210	PASS

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	269300	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206339	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	113053	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane MS	10.19	111	64337	10.62 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.20%		
35) SS 1,2-DCA-d4 MS	11.33	65	68756	9.38 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.75%		
48) SS Toluene-d8 MS	14.65	98	263879	9.97 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.68%		
65) SS 4-BFB MS	18.13	95	100007	9.74 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.36%		
83) SS 1,2-DCB-d4 MS	19.75	152	105972	9.95 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.46%		
90) SS 2,5-DBT MS	23.36	250	1850	8.45 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 21.12%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	13668	1.536 ug/L	99
3) chloromethane	3.19	50	13439	1.630 ug/L	99
4) vinyl chloride	3.34	62	7534	1.730 ug/L	99
5) bromomethane	3.99	94	7228	1.362 ug/L #	87
6) chloroethane	4.11	64	8577	1.740 ug/L	96
7) trichlorofluoromethane	4.52	101	19077	1.675 ug/L	97
8) diethyl ether	5.02	59	10811	2.010 ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	16710	2.125 ug/L	98
10) acrolein	5.27	56	117	Below Cal #	45
11) acetone	5.38	43	4849	3.202 ug/L	98
12) 1,1-dichloroethene	5.61	96	14392	1.948 ug/L	96
13) tert-Butyl Alcohol(TBA)	5.76	59	5280	9.492 ug/L #	82
14) Iodomethane	6.21	142	38	No Calib #	
15) methylene chloride	6.55	84	17166	2.236 ug/L	97
16) carbon disulfide	6.57	76	44076	2.243 ug/L	100
17) acrylonitrile	6.81	53	5198	2.123 ug/L	95
18) Methyl-t-butyl ether(MTBE)	6.85	73	72542	3.748 ug/L	98
19) trans-1,2-dichloroethene	7.15	96	14899	2.113 ug/L	96
20) hexane	7.29	57	16887	1.862 ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	38625	1.787 ug/L	96
22) vinyl acetate	8.06	43	17174	1.341 ug/L	99
23) 1,1-dichloroethane	8.05	63	25495	2.047 ug/L	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	34245	1.704 ug/L #	96
25) 2,2-dichloropropane	9.25	77	17279	1.617 ug/L	95
26) cis-1,2-dichloroethene	9.36	61	19355	2.035 ug/L	97
27) 2-butanone(MEK)	8.97	43	5400	2.069 ug/L #	97
28) bromochloromethane	10.07	128	8231	2.151 ug/L	95
29) Tetrahydrofuran(THF)	10.16	42	3167	1.915 ug/L	98
30) chloroform	9.71	83	26933	2.155 ug/L	98
32) 1,1,1-trichloroethane	10.60	97	20457	1.860 ug/L	99
33) carbon tetrachloride	11.17	117	16614	1.705 ug/L	99
34) 1,1-dichloropropene	10.96	75	20157	1.915 ug/L	94
36) tert-amyl methyl ether(TAM	11.24	73	32157	1.654 ug/L #	93
37) benzene	11.56	78	66775	2.151 ug/L	98
38) 1,2-dichloroethane	11.53	62	20070	2.065 ug/L	99
39) trichloroethene	12.73	95	17268	2.028 ug/L	97
40) 1,2-dichloropropane	13.05	63	15283	2.066 ug/L	97
41) 1,4-dioxaneV	0.00	88	0	N.D.	
42) dibromomethane	13.53	93	9561	2.124 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

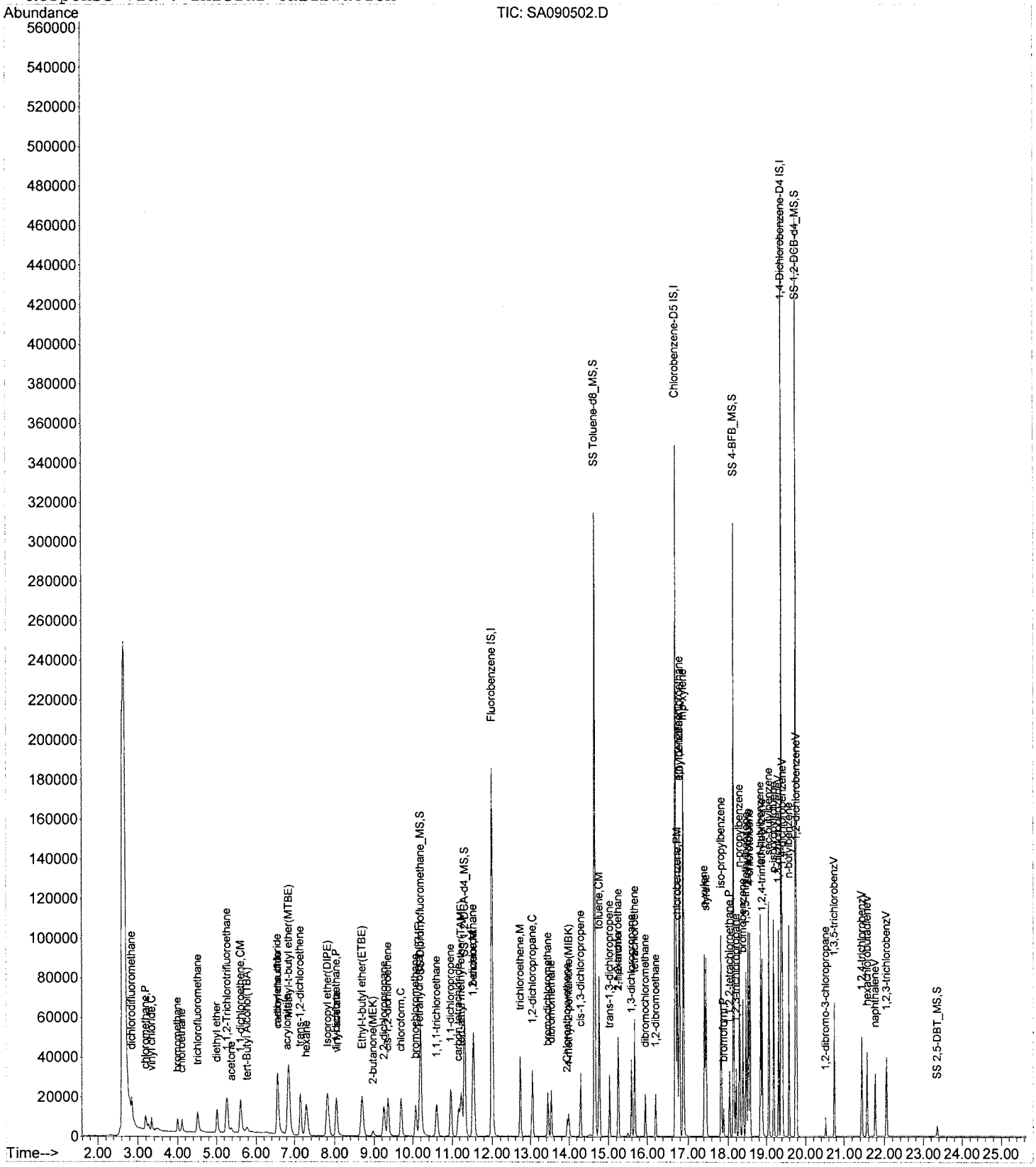
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	bromodichloromethane	13.44	83	17561	1.894 ug/L		99
44)	2-Chloroethoxyethene	13.94	63	4259	1.396 ug/L	#	94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	3700	1.766 ug/L		99
46)	cis-1,3-dichloropropene	14.30	75	18996	1.704 ug/L		94
49)	toluene	14.77	91	71741	2.135 ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	16460	1.548 ug/L		95
51)	1,1,2-trichloroethane	15.25	83	11426	2.127 ug/L		98
52)	2-hexanone	15.26	43	6301	1.734 ug/L		98
53)	tetrachloroethene	15.67	166	18661	2.027 ug/L		96
54)	1,3-dichloropropane	15.59	76	23115	1.995 ug/L		95
55)	dibromochloromethane	15.95	129	12150	3.674 ug/L	#	98
56)	1,2-dibromoethane	16.22	107	13793	2.031 ug/L	#	99
57)	chlorobenzene	16.74	112	51129	2.158 ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	14322	1.864 ug/L		98
59)	ethylbenzene	16.79	91	78577	2.085 ug/L		100
60)	mp-xylene	16.89	106	64698	4.186 ug/L		98
61)	o-xylene	17.41	106	28916	1.904 ug/L		99
62)	styrene	17.46	104	47974	1.954 ug/L		98
63)	bromoform	17.88	173	6296	3.899 ug/L		96
64)	iso-propylbenzene	17.83	105	69061	1.937 ug/L		99
67)	bromobenzene	18.38	156	20990	2.077 ug/L		97
68)	1,1,2,2-tetrachloroethane	18.04	83	15809	2.249 ug/L	#	1
69)	1,2,3-trichloropropane	18.20	110	5202	2.080 ug/L		96
70)	trans-1,4-dichloro-2-buten	18.20	75	13763	No Calib	#	
71)	n-propylbenzene	18.28	91	87490	1.998 ug/L		100
72)	2-chlorotoluene	18.51	91	56666	2.056 ug/L		100
73)	4-chlorotoluene	18.56	91	56447	2.051 ug/L		99
74)	1,3,5-trimethylbenzene	18.45	105	48779	1.701 ug/L		100
75)	tert-butylbenzene	18.84	119	54678	1.929 ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	48179	1.705 ug/L		99
77)	sec-butylbenzene	19.06	105	76265	1.969 ug/L		100
78)	1,3-dichlorobenzeneV	19.32	146	39274	2.097 ug/L		96
79)	p-isopropyltoluene	19.19	119	61136	1.857 ug/L		99
80)	1,4-dichlorobenzeneV	19.42	146	40553	2.177 ug/L	#	93
81)	1,2-dichlorobenzeneV	19.78	146	37521	2.156 ug/L	#	87
82)	n-butylbenzene	19.58	91	49946	1.836 ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	2468	1.874 ug/L		94
85)	1,3,5-trichlorobenzV	20.75	180	20927	1.941 ug/L		97
86)	1,2,4-trichlorobenzV	21.44	180	16814	1.845 ug/L		97
87)	hexachlorobutadieneV	21.56	225	8865	2.131 ug/L		96
88)	naphthaleneV	21.77	128	28641	1.345 ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	14965	1.893 ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090502.D envdef.m Fri Sep 21 13:15:19 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 9:19 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	84	0.00
2		dichlorodifluoromethane	20.000	16.024	19.9	70	0.00
3	P	chloromethane	20.000	16.108	19.5	71	0.00
4	C	vinyl chloride	20.000	16.700	16.5	79	0.01
5		bromomethane	20.000	15.708	21.5#	70	0.02
6		chloroethane	20.000	18.117	9.4	79	0.02
7		trichlorofluoromethane	20.000	17.841	10.8	78	0.01
8		diethyl ether	20.000	18.206	9.0	78	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.343	3.3	83	0.01
10		acrolein	20.000	8.998	55.0#	57	0.00
11		acetone	20.000	19.743	1.3	85	-0.02
12	CM	1,1-dichloroethene	20.000	18.077	9.6	81	0.01
13		tert-Butyl Alcohol(TBA)	100.000	81.866	18.1	71	0.00
14		Iodomethane	20.000	0.000	100.0#	0	0.00
15		methylene chloride	20.000	18.990	5.1	82	0.00
16		carbon disulfide	20.000	17.810	11.0	79	0.01
17		acrylonitrile	20.000	18.558	7.2	79	-0.02
18		Methyl-t-butyl ether(MTBE)	40.000	34.033	14.9	74	-0.02
19		trans-1,2-dichloroethene	20.000	20.006	-0.0	88	0.00
20		hexane	20.000	19.214	3.9	85	0.00
21		Isopropyl ether(DIPE)	20.000	17.845	10.8	78	-0.01
22		vinyl acetate	20.000	16.279	18.6	80	0.00
23	P	1,1-dichloroethane	20.000	19.424	2.9	84	0.00
24		Ethyl-t-butyl ether(ETBE)	20.000	17.066	14.7	75	0.00
25		2,2-dichloropropane	20.000	16.105	19.5	71	0.00
26		cis-1,2-dichloroethene	20.000	19.123	4.4	83	0.00
27		2-butanone(MEK)	20.000	17.566	12.2	80	-0.02
28		bromochloromethane	20.000	20.175	-0.9	88	0.00
29		Tetrahydrofuran(THF)	20.000	17.528	12.4	77	-0.01
30	C	chloroform	20.000	19.225	3.9	84	0.00
31	S	SS Dibromofluoromethane_MS	10.000	10.690	-6.9	88	0.00
32		1,1,1-trichloroethane	20.000	17.867	10.7	78	0.00
33		carbon tetrachloride	20.000	17.744	11.3	77	0.00
34		1,1-dichloropropene	20.000	19.134	4.3	84	0.00
35	S	SS 1,2-DCA-d4_MS	10.000	9.244	7.6	77	0.00
36		tert-amyl methyl ether(TAME	20.000	17.073	14.6	76	-0.01
37	M	benzene	20.000	20.203	-1.0	90	-0.01
38		1,2-dichloroethane	20.000	18.104	9.5	77	-0.01
39	M	trichloroethene	20.000	19.054	4.7	85	0.00
40	C	1,2-dichloropropane	20.000	19.486	2.6	86	0.00
41		1,4-dioxaneV	40.000	41.936	-4.8	90	-0.02
42		dibromomethane	20.000	19.514	2.4	85	0.00
43		bromodichloromethane	20.000	18.724	6.4	82	0.00
44		2-Chloroethoxyethene	20.000	18.741	6.3	80	0.00
45		4-methyl-2-pentanone(MIBK)	20.000	18.695	6.5	81	-0.02
46		cis-1,3-dichloropropene	20.000	18.546	7.3	81	0.00
47	I	Chlorobenzene-D5 IS	10.000	10.000	0.0	88	0.00
48	S	SS Toluene-d8_MS	10.000	9.953	0.5	86	0.00
49	CM	toluene	20.000	19.650	1.8	90	-0.01
50		trans-1,3-dichloropropene	20.000	17.457	12.7	78	0.00
51		1,1,2-trichloroethane	20.000	19.560	2.2	90	0.00
52		2-hexanone	20.000	16.553	17.2	76	-0.02
53		tetrachloroethene	20.000	19.307	3.5	91	0.00
54		1,3-dichloropropane	20.000	18.792	6.0	88	-0.01
55		dibromochloromethane	20.000	17.860	10.7	86	-0.01
56		1,2-dibromoethane	20.000	19.361	3.2	88	0.00

57	PM	chlorobenzene	20.000	19.840	0.8	91	0.00
58		1,1,1,2-tetrachloroethane	20.000	19.739	1.3	85	-0.01
59	C	ethylbenzene	20.000	20.396	-2.0	88	-0.01
60		mp-xylene	40.000	41.157	-2.9	89	-0.01
61		o-xylene	20.000	19.844	0.8	89	-0.01
62		styrene	20.000	20.084	-0.4	89	-0.01
63	P	bromoform	20.000	17.622	11.9	87	-0.01
64		iso-propylbenzene	20.000	20.060	-0.3	88	0.00
65	S	SS 4-BFB_MS	10.000	9.966	0.3	86	0.00
66	I	1,4-Dichlorobenzene-D4 IS	10.000	10.000	0.0	91	0.00
67		bromobenzene	20.000	19.237	3.8	92	0.00
68	P	1,1,2,2-tetrachloroethane	20.000	20.182	-0.9	96	-0.01
69		1,2,3-trichloropropane	20.000	18.586	7.1	89	-0.01
70		trans-1,4-dichloro-2-butene	20.000	0.000	100.0#	0	0.00
71		n-propylbenzene	20.000	19.486	2.6	89	-0.01
72		2-chlorotoluene	20.000	18.981	5.1	88	-0.01
73		4-chlorotoluene	20.000	18.905	5.5	87	-0.01
74		1,3,5-trimethylbenzene	20.000	19.142	4.3	87	-0.02
75		tert-butylbenzene	20.000	19.359	3.2	89	-0.01
76		1,2,4-trimethylbenzene	20.000	19.105	4.5	87	-0.01
77		sec-butylbenzene	20.000	19.861	0.7	89	0.00
78		1,3-dichlorobenzeneV	20.000	19.615	1.9	92	-0.01
79		p-isopropyltoluene	20.000	20.291	-1.5	90	0.00
80		1,4-dichlorobenzeneV	20.000	19.699	1.5	92	-0.01
81		1,2-dichlorobenzeneV	20.000	19.644	1.8	93	-0.01
82		n-butylbenzene	20.000	20.039	-0.2	89	0.00
83	S	SS 1,2-DCB-d4_MS	10.000	9.894	1.1	90	0.00
84		1,2-dibromo-3-chloropropane	20.000	20.583	-2.9	90	0.00
85		1,3,5-trichlorobenzV	20.000	19.463	2.7	92	0.00
86		1,2,4-trichlorobenzV	20.000	19.352	3.2	91	-0.01
87		hexachlorobutadieneV	20.000	19.840	0.8	96	-0.01
88		naphthaleneV	20.000	19.445	2.8	90	-0.01
89		1,2,3-trichlorobenzV	20.000	19.273	3.6	91	-0.01
90	S	SS 2,5-DBT_MS	20.000	20.195	-1.0	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA080609.D 5VID0806.M Tue Sep 11 15:41:04 2012

9/7/12

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	271470	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	211994	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	121817	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	65283	10.69	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.90%			
35) SS 1,2-DCA-d4_MS	11.33	65	68341	9.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.44%			
48) SS Toluene-d8_MS	14.65	98	270693	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.53%			
65) SS 4-BFB_MS	18.13	95	105169	9.97	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.66%			
83) SS 1,2-DCB-d4_MS	19.75	152	113595	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.94%			
90) SS 2,5-DBT_MS	23.36	250	38935	20.19	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 50.49%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	143725	16.024	ug/L	100
3) chloromethane	3.19	50	133866	16.108	ug/L	100
4) vinyl chloride	3.34	62	73332	16.700	ug/L	99
5) bromomethane	3.99	94	84012	15.708	ug/L	98
6) chloroethane	4.11	64	90035	18.117	ug/L	99
7) trichlorofluoromethane	4.52	101	204805	17.841	ug/L	100
8) diethyl ether	5.02	59	98692	18.206	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	153307	19.343	ug/L	99
10) acrolein	5.28	56	2918	8.998	ug/L	85
11) acetone	5.38	43	30138	19.743	ug/L	98
12) 1,1-dichloroethene	5.61	96	134598	18.077	ug/L	97
13) tert-Butyl Alcohol(TBA)	5.77	59	45908	81.866	ug/L #	89
15) methylene chloride	6.55	84	146955	18.990	ug/L	98
16) carbon disulfide	6.57	76	352766	17.810	ug/L	99
17) acrylonitrile	6.81	53	45798	18.558	ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	664035	34.033	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	142198	20.006	ug/L	94
20) hexane	7.28	57	175668	19.214	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	388811	17.845	ug/L	98
22) vinyl acetate	8.05	43	210200	16.279	ug/L	98
23) 1,1-dichloroethane	8.04	63	243862	19.424	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	345743	17.066	ug/L	97
25) 2,2-dichloropropane	9.24	77	173482	16.105	ug/L	99
26) cis-1,2-dichloroethene	9.35	61	183357	19.123	ug/L	96
27) 2-butanone(MEK)	8.96	43	46222	17.566	ug/L	97
28) bromochloromethane	10.08	128	77821	20.175	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	29217	17.528	ug/L	97
30) chloroform	9.71	83	242183	19.225	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	198125	17.867	ug/L	99
33) carbon tetrachloride	11.17	117	174342	17.744	ug/L	98
34) 1,1-dichloropropene	10.96	75	203027	19.134	ug/L	93
36) tert-amyl methyl ether(TAM	11.24	73	334520	17.073	ug/L #	95
37) benzene	11.55	78	632337	20.203	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA090503.D 5VID0806.M Thu Sep 13 11:46:10 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

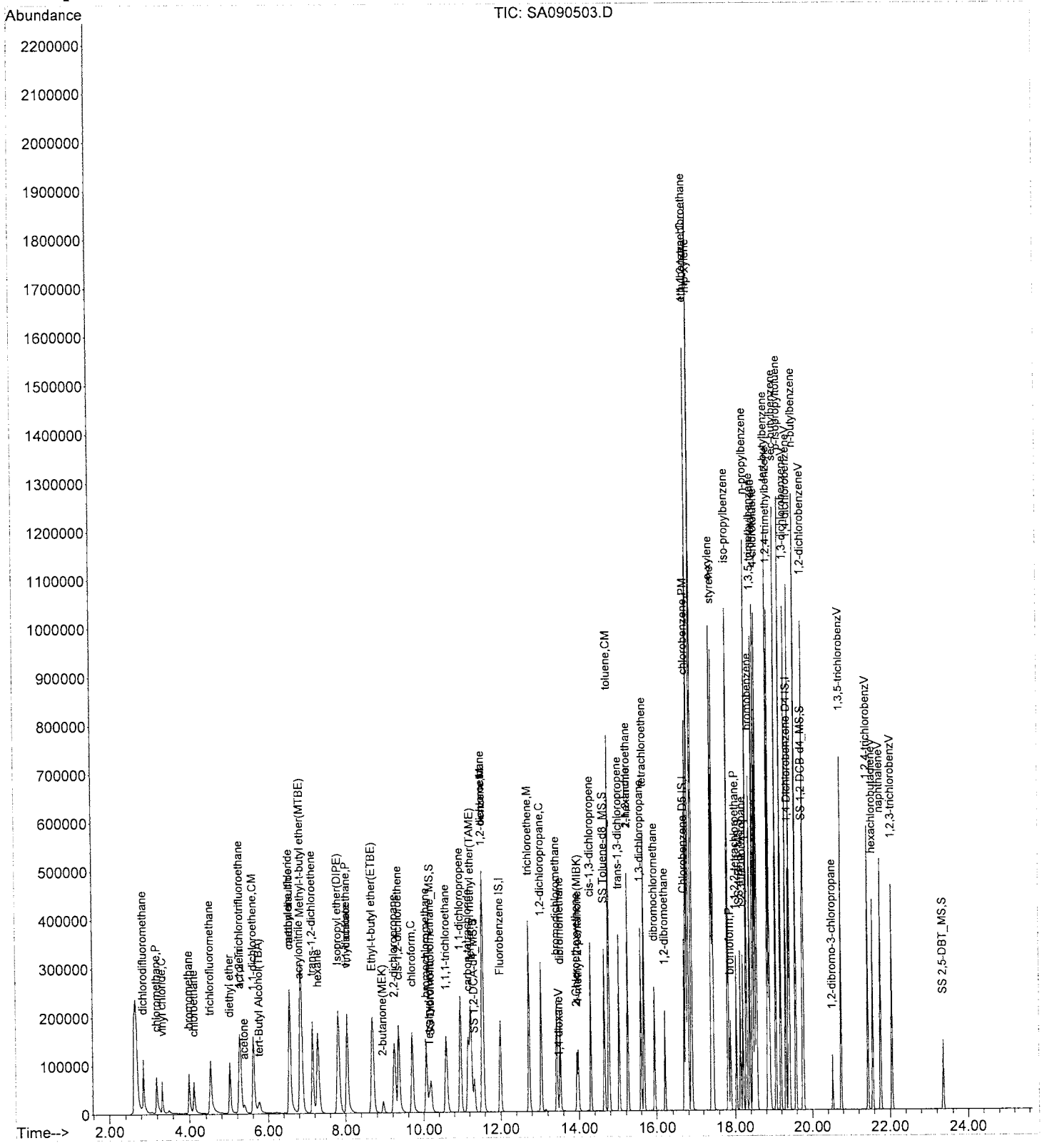
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38) 1,2-dichloroethane	11.53	62	177350	18.104 ug/L	99
39) trichloroethene	12.73	95	163559	19.054 ug/L	96
40) 1,2-dichloropropane	13.05	63	145338	19.486 ug/L	95
41) 1,4-dioxaneV	13.49	88	2888	41.936 ug/L #	79
42) dibromomethane	13.53	93	88567	19.514 ug/L	96
43) bromodichloromethane	13.44	83	175033	18.724 ug/L	98
44) 2-Chloroethoxyethene	13.95	63	57615	18.741 ug/L	95
45) 4-methyl-2-pentanone(MIBK)	13.98	58	39474	18.695 ug/L	94
46) cis-1,3-dichloropropene	14.30	75	208389	18.546 ug/L	93
49) toluene	14.77	91	678537	19.650 ug/L	100
50) trans-1,3-dichloropropene	15.03	75	190734	17.457 ug/L	93
51) 1,1,2-trichloroethane	15.25	83	107950	19.560 ug/L	96
52) 2-hexanone	15.25	43	61809	16.553 ug/L	97
53) tetrachloroethene	15.67	166	182619	19.307 ug/L	95
54) 1,3-dichloropropane	15.59	76	223748	18.792 ug/L	91
55) dibromochloromethane	15.95	129	138671	17.860 ug/L #	100
56) 1,2-dibromoethane	16.22	107	135078	19.361 ug/L #	99
57) chlorobenzene	16.74	112	482989	19.840 ug/L	97
58) 1,1,1,2-tetrachloroethane	16.78	131	155802	19.739 ug/L	99
59) ethylbenzene	16.79	91	789751	20.396 ug/L	99
60) mp-xylene	16.89	106	653597	41.157 ug/L	97
61) o-xylene	17.41	106	309680	19.844 ug/L	97
62) styrene	17.46	104	506725	20.084 ug/L	97
63) bromoform	17.88	173	82220	17.622 ug/L #	95
64) iso-propylbenzene	17.83	105	734772	20.060 ug/L	99
67) bromobenzene	18.38	156	209490	19.237 ug/L	95
68) 1,1,2,2-tetrachloroethane	18.03	83	152888	20.182 ug/L	99
69) 1,2,3-trichloropropane	18.20	110	50089	18.586 ug/L	98
71) n-propylbenzene	18.28	91	919586	19.486 ug/L	99
72) 2-chlorotoluene	18.51	91	563697	18.981 ug/L	98
73) 4-chlorotoluene	18.56	91	560549	18.905 ug/L	98
74) 1,3,5-trimethylbenzene	18.45	105	591456	19.142 ug/L	98
75) tert-butylbenzene	18.84	119	591289	19.359 ug/L	97
76) 1,2,4-trimethylbenzene	18.89	105	581608	19.105 ug/L	98
77) sec-butylbenzene	19.06	105	829059	19.861 ug/L	99
78) 1,3-dichlorobenzeneV	19.32	146	395840	19.615 ug/L	96
79) p-isopropyltoluene	19.19	119	719604	20.291 ug/L	98
80) 1,4-dichlorobenzeneV	19.42	146	395427	19.699 ug/L	96
81) 1,2-dichlorobenzeneV	19.77	146	368340	19.644 ug/L #	95
82) n-butylbenzene	19.58	91	587520	20.039 ug/L	99
84) 1,2-dibromo-3-chloropropan	20.52	157	29204	20.583 ug/L	95
85) 1,3,5-trichlorobenzV	20.75	180	226129	19.463 ug/L	96
86) 1,2,4-trichlorobenzV	21.44	180	190031	19.352 ug/L	95
87) hexachlorobutadieneV	21.56	225	88934	19.840 ug/L	96
88) naphthaleneV	21.76	128	446051	19.445 ug/L	99
89) 1,2,3-trichlorobenzV	22.05	180	164171	19.273 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 9:19 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090504.D Vial: 4
Acq On : 5 Sep 2012 9:24 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 10:48:15 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	264916	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	203570	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	107192	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61587	10.33	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.34%			
35) SS 1,2-DCA-d4_MS	11.33	65	66834	9.26	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.64%			
48) SS Toluene-d8_MS	14.65	98	258745	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.07%			
65) SS 4-BFB_MS	18.13	95	96522	9.52	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.25%			
83) SS 1,2-DCB-d4_MS	19.75	152	102699	10.17	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.66%			
90) SS 2,5-DBT_MS	23.36	250	332	7.93	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 19.84%#			
Target Compounds						Qvalue
16) carbon disulfide	6.57	76	8532	0.441	ug/L	96
52) 2-hexanone	15.25	43	1126	0.314	ug/L #	93
85) 1,3,5-trichlorobenzV	20.75	180	4131	0.404	ug/L	97
86) 1,2,4-trichlorobenzV	21.44	180	4055	0.469	ug/L	96
87) hexachlorobutadieneV	21.56	225	1145	0.290	ug/L	95
88) naphthaleneV	21.76	128	5238	0.260	ug/L	94
89) 1,2,3-trichlorobenzV	22.06	180	4016	0.536	ug/L	93

#c/o from STD 20', < Reporting limit

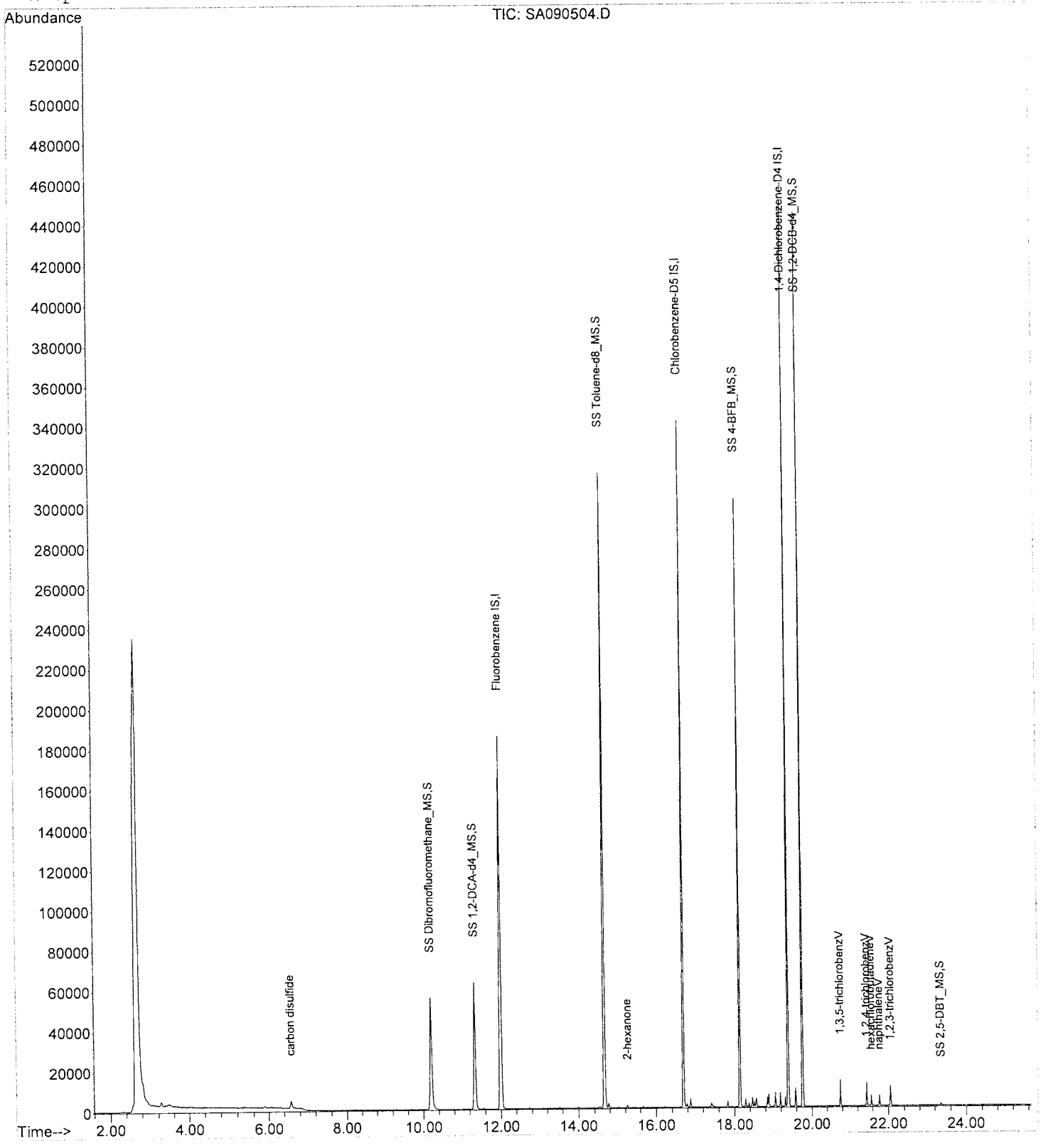
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090504.D 5VID0806.M Tue Sep 11 15:41:17 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090504.D Vial: 4
Acq On : 5 Sep 2012 9:24 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 10:48 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090505.D Vial: 5
Acq On : 5 Sep 2012 9:58 am Operator: BAM
Sample : 113653.20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:28:41 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	266037	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	204559	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	106903	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61791	10.32	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.24%			
35) SS 1,2-DCA-d4_MS	11.32	65	67618	9.33	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.33%			
48) SS Toluene-d8_MS	14.65	98	262655	10.01	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.08%			
65) SS 4-BFB_MS	18.13	95	96066	9.43	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.34%			
83) SS 1,2-DCB-d4_MS	19.75	152	101539	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.78%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.39	43	1414	0.945	ug/L #	80
16) carbon disulfide	6.57	76	7327	0.377	ug/L #	77

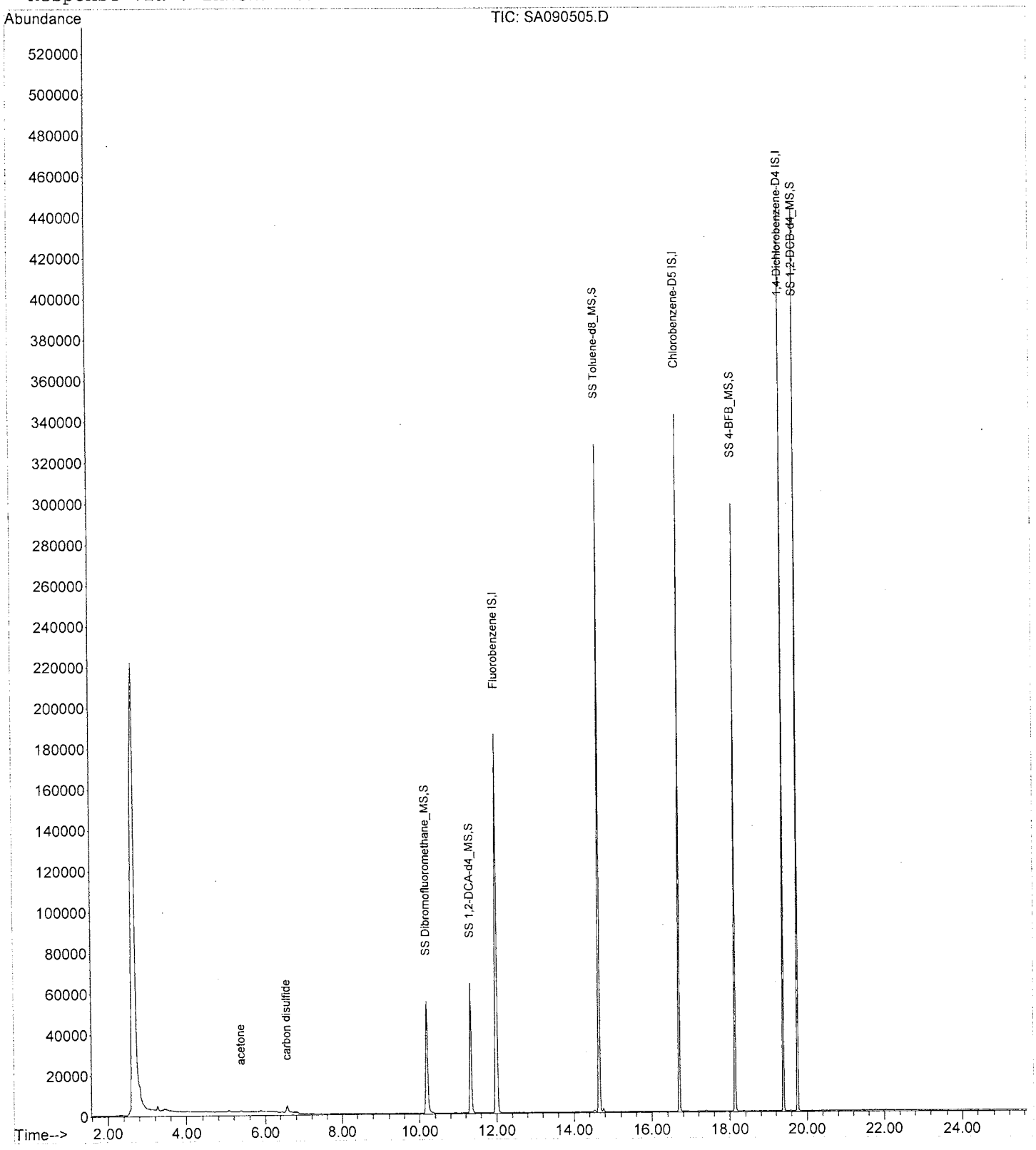
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090505.D 5VID0806.M Thu Sep 06 07:28:45 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090505.D Vial: 5
Acq On : 5 Sep 2012 9:58 am Operator: BAM
Sample : 113653.20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090506.D Vial: 6
Acq On : 5 Sep 2012 ~~10~~ 10:33 am Operator: BAM
Sample : 113653 ~~.22~~ .21 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:28:48 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	251235	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	194964	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	100622	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	58442	10.34	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.40%			
35) SS 1,2-DCA-d4_MS	11.33	65	64338	9.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.03%			
48) SS Toluene-d8_MS	14.65	98	248992	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.54%			
65) SS 4-BFB_MS	18.13	95	90104	9.28	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 92.84%			
83) SS 1,2-DCB-d4_MS	19.75	152	98465	10.38	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.83%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
16) carbon disulfide	6.57	76	7216	0.394	ug/L #	76

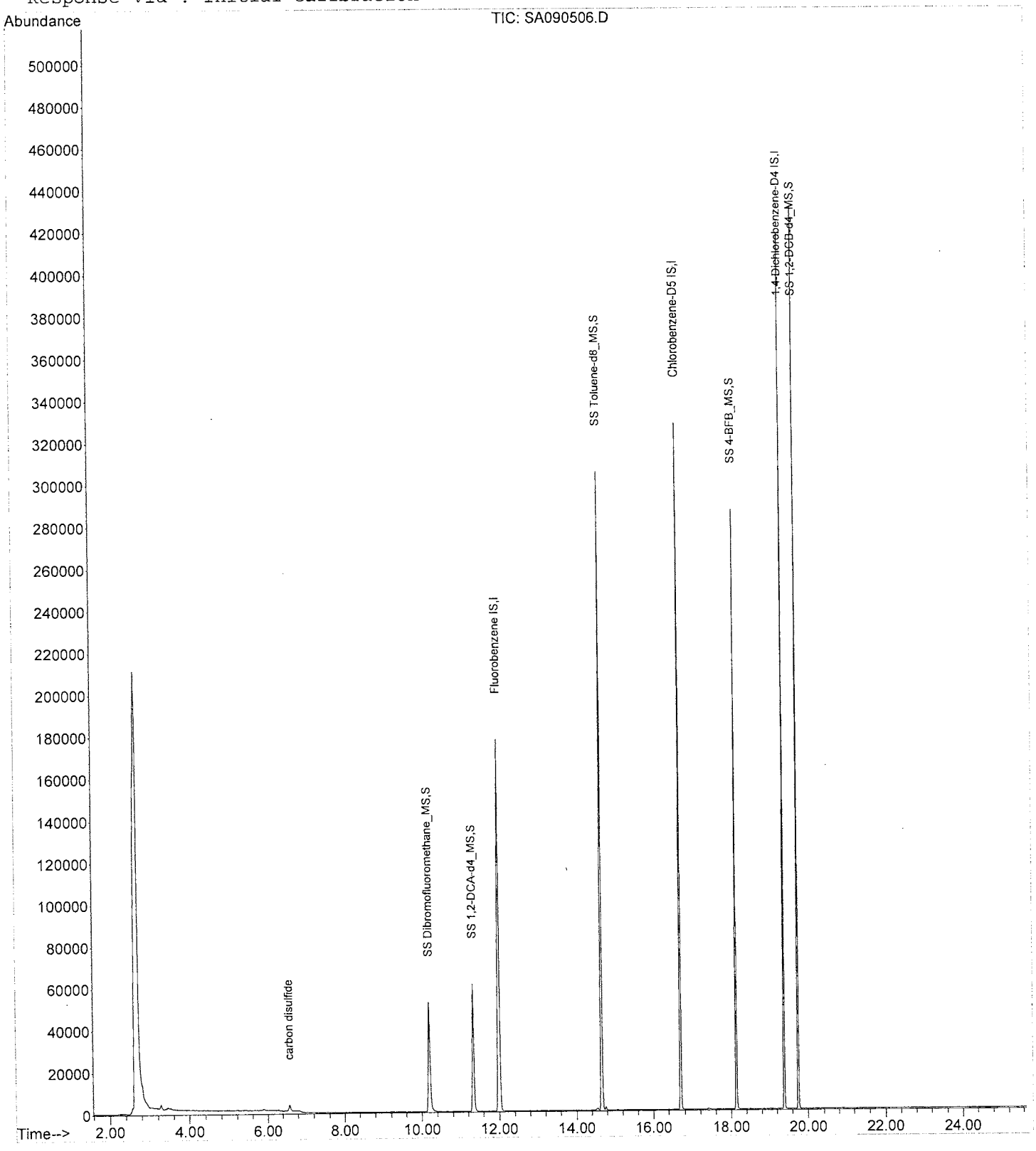
BDW 9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090506.D 5VID0806.M Thu Sep 06 07:28:49 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090506.D Vial: 6
Acq On : 5 Sep 2012 10:33 am Operator: BAM
Sample : 113653-22,21 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:28 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:27:03 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	255515	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201783	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	117631	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	62411	10.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.57%			
35) SS 1,2-DCA-d4_MS	11.33	65	65581	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.25%			
48) SS Toluene-d8_MS	14.65	98	257126	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.32%			
65) SS 4-BFB_MS	18.13	95	102243	10.18	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 101.79%			
83) SS 1,2-DCB-d4_MS	19.75	152	110272	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.47%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	116848	13.841	ug/L	99
3) chloromethane	3.19	50	121396	15.519	ug/L	100
4) vinyl chloride	3.33	62	69466	16.807	ug/L	100
5) bromomethane	3.99	94	79284	15.750	ug/L	99
6) chloroethane	4.11	64	90269	19.298	ug/L	99
7) trichlorofluoromethane	4.52	101	204745	18.949	ug/L	99
8) diethyl ether	5.01	59	89102	17.464	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	135457	18.158	ug/L	99
10) acrolein	5.27	56	2035	5.552	ug/L	87
11) acetone	5.38	43	27118	18.874	ug/L	100
12) 1,1-dichloroethene	5.61	96	120657	17.216	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.77	59	39821	75.446	ug/L #	82
15) methylene chloride	6.55	84	137618	18.894	ug/L	97
16) carbon disulfide	6.57	76	316987	17.003	ug/L	99
17) acrylonitrile	6.81	53	37664	16.215	ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	300916	16.386	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	124537	18.615	ug/L	95
21) Isopropyl ether(DIPE)	7.81	45	353926	17.258	ug/L	99
22) vinyl acetate	8.05	43	174730	14.377	ug/L	97
23) 1,1-dichloroethane	8.04	63	219802	18.601	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	323360	16.958	ug/L	97
25) 2,2-dichloropropane	9.24	77	147044	14.503	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	182150	20.183	ug/L	97
27) 2-butanone(MEK)	8.96	43	42110	17.002	ug/L	96
28) bromochloromethane	10.08	128	68751	18.936	ug/L	96
29) Tetrahydrofuran(THF)	10.16	42	26989	17.202	ug/L	96
30) chloroform	9.71	83	223068	18.813	ug/L	97
32) 1,1,1-trichloroethane	10.59	97	179542	17.202	ug/L	99
33) carbon tetrachloride	11.17	117	156231	16.893	ug/L	98
34) 1,1-dichloropropene	10.96	75	184477	18.471	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	311732	16.904	ug/L #	58
37) benzene	11.56	78	586767	19.917	ug/L	98
38) 1,2-dichloroethane	11.53	62	161669	17.534	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:27:03 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

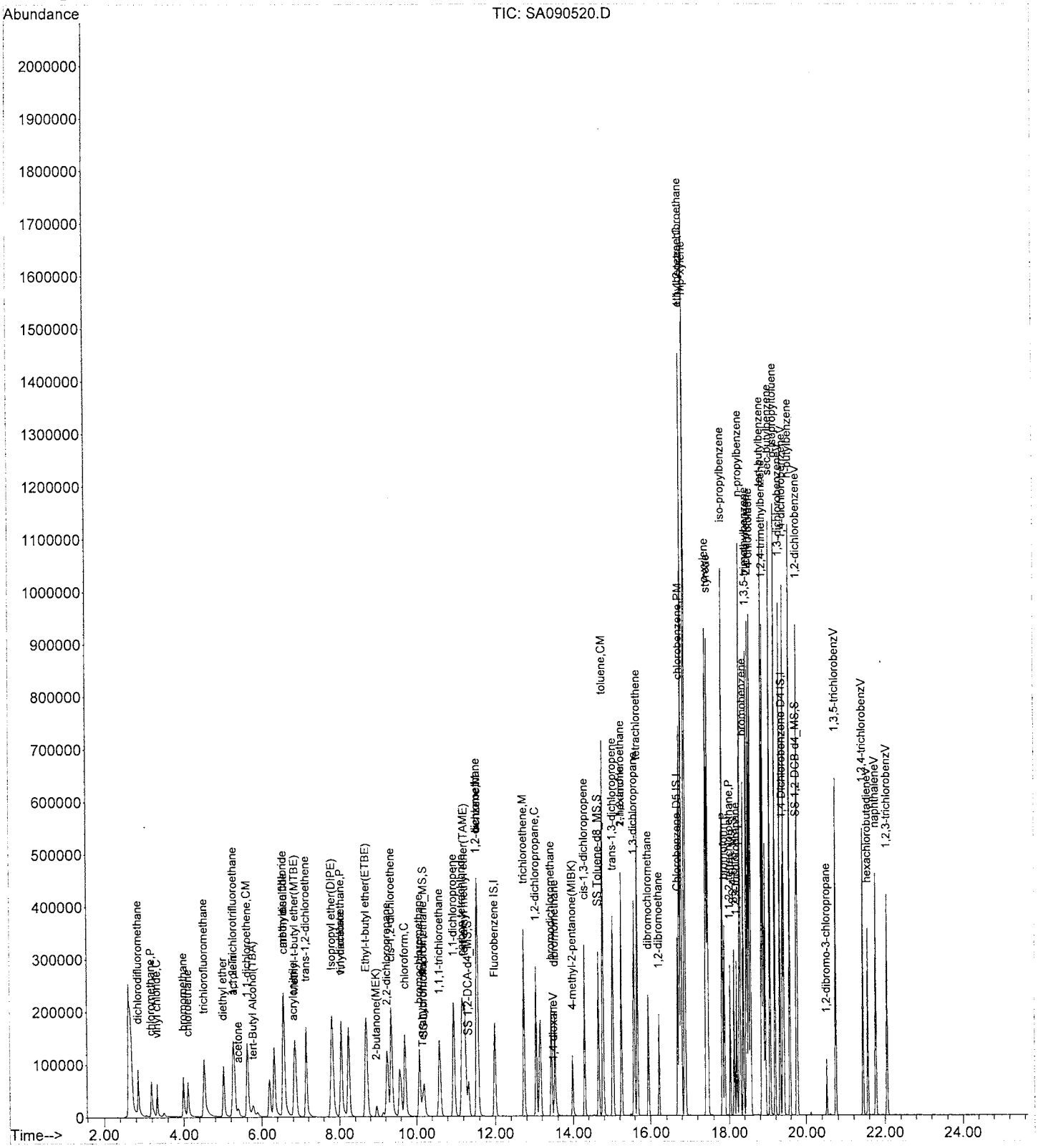
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	12.73	95	147138	18.212 ug/L	96
40)	1,2-dichloropropane	13.05	63	133467	19.012 ug/L	96
41)	1,4-dioxaneV	13.49	88	1583	24.422 ug/L #	45
42)	dibromomethane	13.53	93	83178	19.471 ug/L	96
43)	bromodichloromethane	13.44	83	161168	18.317 ug/L	98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	35859	18.044 ug/L	98
46)	cis-1,3-dichloropropene	14.30	75	191908	18.145 ug/L	93
49)	toluene	14.77	91	627553	19.093 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	174919	16.820 ug/L #	85
51)	1,1,2-trichloroethane	15.25	83	102049	19.427 ug/L	97
52)	2-hexanone	15.25	43	60271	16.958 ug/L	97
53)	tetrachloroethene	15.67	166	189622	21.062 ug/L #	95
54)	1,3-dichloropropane	15.59	76	212432	18.744 ug/L	95
55)	dibromochloromethane	15.95	129	124819	17.013 ug/L #	100
56)	1,2-dibromoethane	16.22	107	124406	18.734 ug/L #	99
57)	chlorobenzene	16.74	112	443820	19.154 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	142728	18.998 ug/L	99
59)	ethylbenzene	16.79	91	734043	19.916 ug/L	99
60)	mp-xylene	16.89	106	608225	40.238 ug/L	97
61)	o-xylene	17.41	106	287904	19.382 ug/L	97
62)	styrene	17.46	104	489186	20.370 ug/L	98
63)	bromoform	17.88	173	79815	17.918 ug/L	93
64)	iso-propylbenzene	17.83	105	738176	21.173 ug/L	99
67)	bromobenzene	18.38	156	193946	18.443 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	138488	18.931 ug/L	99
69)	1,2,3-trichloropropane	18.20	110	45835	17.613 ug/L	98
71)	n-propylbenzene	18.28	91	866579	19.016 ug/L	99
72)	2-chlorotoluene	18.51	91	511530	17.837 ug/L	98
73)	4-chlorotoluene	18.56	91	520398	18.175 ug/L	98
74)	1,3,5-trimethylbenzene	18.45	105	543167	18.205 ug/L	98
75)	tert-butylbenzene	18.84	119	549133	18.618 ug/L	97
76)	1,2,4-trimethylbenzene	18.89	105	531077	18.066 ug/L	98
77)	sec-butylbenzene	19.06	105	758037	18.806 ug/L	99
78)	1,3-dichlorobenzeneV	19.32	146	368461	18.908 ug/L	95
79)	p-isopropyltoluene	19.19	119	665029	19.419 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	370251	19.101 ug/L	96
81)	1,2-dichlorobenzeneV	19.77	146	340898	18.828 ug/L #	95
82)	n-butylbenzene	19.58	91	529951	18.719 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	26847	19.595 ug/L	94
85)	1,3,5-trichlorobenzV	20.75	180	202470	18.047 ug/L	96
86)	1,2,4-trichlorobenzV	21.44	180	176746	18.640 ug/L	95
87)	hexachlorobutadieneV	21.56	225	73120	16.892 ug/L	96
88)	naphthaleneV	21.76	128	395063	17.835 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	149345	18.156 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 13:27 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:28:17 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	263083	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206767	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	118507	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	63024	10.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.49%			
35) SS 1,2-DCA-d4_MS	11.33	65	67106	9.37	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.66%			
48) SS Toluene-d8_MS	14.66	98	264042	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.53%			
65) SS 4-BFB_MS	18.13	95	102681	9.98	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.76%			
83) SS 1,2-DCB-d4_MS	19.75	152	110498	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.93%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	121502	13.978	ug/L	99
3) chloromethane	3.19	50	125837	15.624	ug/L	100
4) vinyl chloride	3.34	62	70873	16.654	ug/L	99
5) bromomethane	3.99	94	88561	17.087	ug/L	99
6) chloroethane	4.11	64	94076	19.533	ug/L	99
7) trichlorofluoromethane	4.52	101	213653	19.205	ug/L	99
8) diethyl ether	5.02	59	92110	17.534	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	140608	18.306	ug/L	99
10) acrolein	5.28	56	1660	3.504	ug/L #	56
11) acetone	5.38	43	27095	18.315	ug/L	99
12) 1,1-dichloroethene	5.61	96	126382	17.514	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.78	59	43185	79.465	ug/L #	86
15) methylene chloride	6.55	84	142691	19.027	ug/L	97
16) carbon disulfide	6.57	76	339330	17.678	ug/L	100
17) acrylonitrile	6.82	53	37853	15.827	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	309410	16.364	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	132907	19.295	ug/L	94
21) Isopropyl ether(DIPE)	7.82	45	368851	17.469	ug/L	98
22) vinyl acetate	8.05	43	183177	14.639	ug/L	97
23) 1,1-dichloroethane	8.04	63	232304	19.094	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	339484	17.291	ug/L	97
25) 2,2-dichloropropane	9.25	77	156884	15.029	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	188084	20.241	ug/L	98
27) 2-butanone(MEK)	8.96	43	43348	16.999	ug/L	96
28) bromochloromethane	10.08	128	71136	19.030	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	27917	17.282	ug/L	96
30) chloroform	9.71	83	233833	19.154	ug/L	97
32) 1,1,1-trichloroethane	10.60	97	191115	17.784	ug/L	99
33) carbon tetrachloride	11.17	117	167454	17.586	ug/L	98
34) 1,1-dichloropropene	10.97	75	194250	18.890	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	323592	17.042	ug/L #	59
37) benzene	11.56	78	613068	20.211	ug/L	98
38) 1,2-dichloroethane	11.53	62	166856	17.576	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:28:17 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

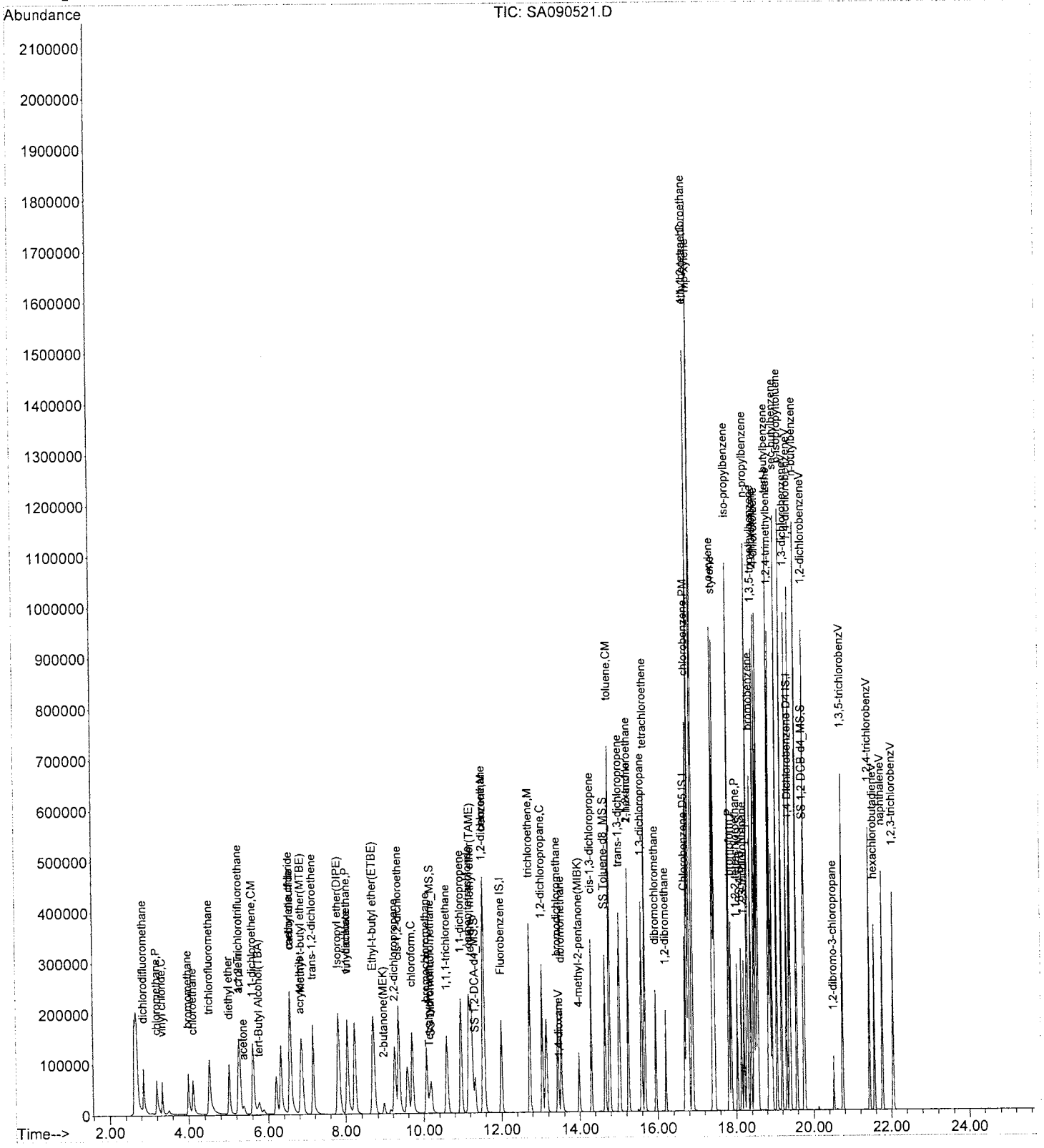
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	trichloroethene	12.73	95	157318	18.911 ug/L	96
40)	1,2-dichloropropane	13.05	63	139188	19.256 ug/L	95
41)	1,4-dioxaneV	13.48	88	1677	25.127 ug/L #	64
42)	dibromomethane	13.53	93	85153	19.360 ug/L	96
43)	bromodichloromethane	13.44	83	168015	18.546 ug/L	98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	37150	18.156 ug/L	98
46)	cis-1,3-dichloropropene	14.30	75	201912	18.542 ug/L	93
49)	toluene	14.77	91	650009	19.300 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	183086	17.181 ug/L #	86
51)	1,1,2-trichloroethane	15.25	83	104491	19.412 ug/L	97
52)	2-hexanone	15.25	43	64007	17.575 ug/L	97
53)	tetrachloroethene	15.67	166	202603	21.961 ug/L #	94
54)	1,3-dichloropropane	15.59	76	217374	18.718 ug/L	96
55)	dibromochloromethane	15.95	129	129810	17.233 ug/L #	100
56)	1,2-dibromoethane	16.22	107	128674	18.910 ug/L #	99
57)	chlorobenzene	16.74	112	459749	19.363 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	148028	19.228 ug/L	99
59)	ethylbenzene	16.79	91	758184	20.076 ug/L	99
60)	mp-xylene	16.89	106	623208	40.235 ug/L	97
61)	o-xylene	17.41	106	295170	19.393 ug/L	98
62)	styrene	17.46	104	504325	20.494 ug/L	98
63)	bromoform	17.88	173	83525	18.241 ug/L #	93
64)	iso-propylbenzene	17.83	105	765421	21.425 ug/L	99
67)	bromobenzene	18.38	156	199196	18.803 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	139128	18.878 ug/L	98
69)	1,2,3-trichloropropane	18.20	110	45987	17.540 ug/L	99
71)	n-propylbenzene	18.28	91	888210	19.347 ug/L	100
72)	2-chlorotoluene	18.51	91	524904	18.168 ug/L	98
73)	4-chlorotoluene	18.56	91	531341	18.420 ug/L	98
74)	1,3,5-trimethylbenzene	18.45	105	557991	18.564 ug/L	98
75)	tert-butylbenzene	18.84	119	558397	18.792 ug/L	98
76)	1,2,4-trimethylbenzene	18.89	105	539376	18.212 ug/L	97
77)	sec-butylbenzene	19.06	105	778515	19.171 ug/L	99
78)	1,3-dichlorobenzeneV	19.32	146	377268	19.217 ug/L	95
79)	p-isopropyltoluene	19.19	119	684091	19.828 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	378758	19.395 ug/L	95
81)	1,2-dichlorobenzeneV	19.77	146	345666	18.950 ug/L #	95
82)	n-butylbenzene	19.58	91	540292	18.943 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	27430	19.872 ug/L	94
85)	1,3,5-trichlorobenzV	20.75	180	207915	18.395 ug/L	96
86)	1,2,4-trichlorobenzV	21.44	180	183081	19.165 ug/L	95
87)	hexachlorobutadieneV	21.56	225	75224	17.250 ug/L	97
88)	naphthaleneV	21.76	128	403519	18.083 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	154279	18.617 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 13:28 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



1,4 Dioxane 8260B SIM
Initial Calibration

IS/SS ID= V- 3934

Standard ID= V- 3935

Analyst: VSH G

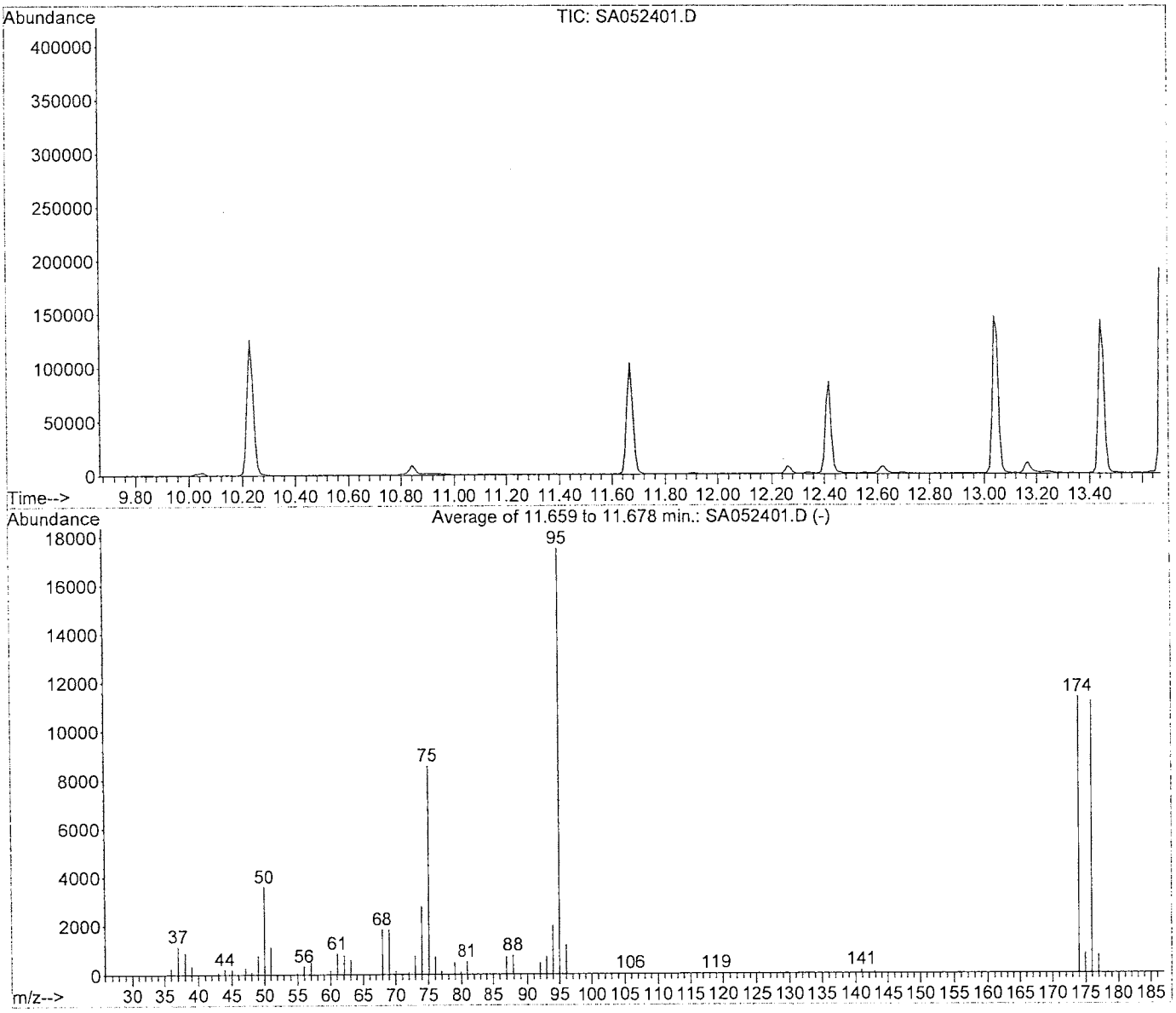
LCS/LCSD and/or MS/MSD Standard ID= V- 3936

Date: 5/23/17

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	[illegible]	BFB		✓		x1	VOC MSI			
2	CAM2350	STD5		✓			VOC SIM	25IM0510		
3	43	LCS5		✓			VOC		STD5 - test run. Do not use	
4	4	LCSD5		✓			VOC		STD2	
5	5	Blank		✓			VOC		STD1	
6	6	STD0.5		✓			VOC			
7	7	STD0.25		✓			VOC		NEW ICAL	
8	8	STD10		✓			VOC			
9	9	20		✓			VOC		25IM0524	
10	10	Blank		✓			VOC			
11	11	STD50		✓			VOC			
12	12	Blank		✓			VOC			
13	13	BFB		✓			VOC MSI			
14	14	STD5		✓			VOC SIM			
15	15	LCS5		✓			VOC			
16	16	LCSD5		✓			VOC			
17	17	Blank		✓			VOC			
18	18	1104340 1		✓			VOC			
19	19	02		✓			VOC			
20	20	03		✓			VOC			
21	21	04		✓			VOC			
22	22	05		✓			VOC			
23	23	06		✓			VOC			
24	24	1104340.01		✓			VOC			
25	25	02		✓			VOC		] Stopped here	
26	26	03		✓			VOC			
27	27	04		✓		↓	VOC			
28							VOC			
29							VOC			
30							VOC			
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Samples removed from autosampler, order verified by [signature] 5/25/17

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052401.D Vial: 1
Acq On : 24 May 2012 12:31 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.659 to 11.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	3614	PASS
75	95	30	60	49.0	8582	PASS
95	95	100	100	100.0	17506	PASS
96	95	5	9	6.8	1195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	11352	PASS
175	174	5	9	7.1	804	PASS
176	174	95	101	98.5	11180	PASS
177	176	5	9	6.5	732	PASS

Response Factor Report VOAMS2

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration

Calibration Files
1 =SA052405.D 20 =SA052409.D 10 =SA052408.D
50 =SA052411.D .25 =SA052407.D 5 =SA052402.D

		Compound	1	20	10	50	.25	5	Avg	%RSD
1)	I	Fluorobenzene IS	----------ISTD----------							
2)		1,4-dioxaneV	0.026	0.019	0.021	0.016	0.024	0.021	0.021#	13.59
3)	S	SS Toluene-d8_M	0.988	0.990	0.983	0.987	0.984	0.983	0.999	3.86
4)	S	SS 4-BFB_MS	0.446	0.452	0.448	0.453	0.444	0.447	0.448	0.69

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:49:41 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

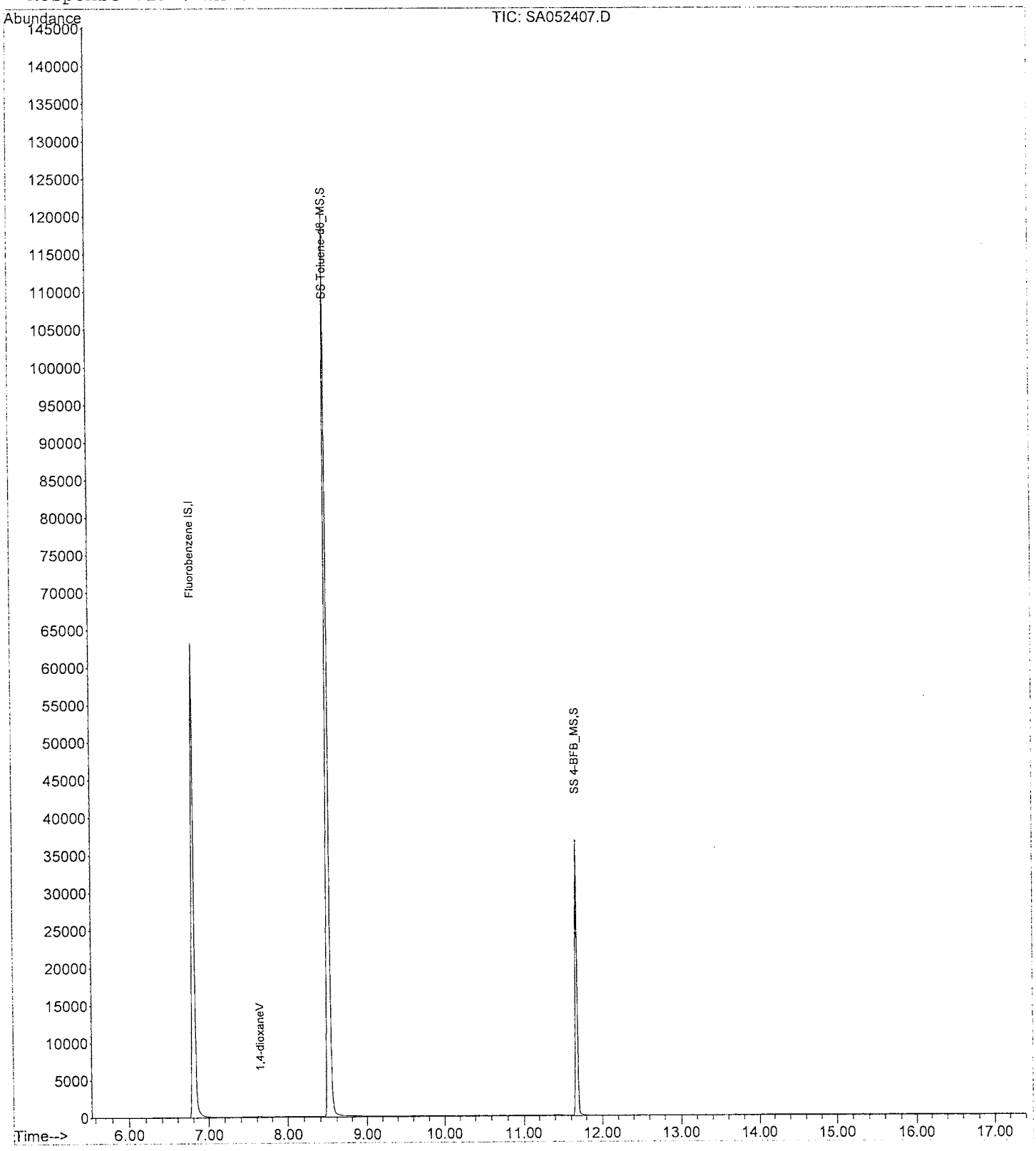
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140323	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138140	9.73	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.34%			
4) SS 4-BFB_MS	11.68	95	62363	9.95	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	84	0.263	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:56:01 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:33:08 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

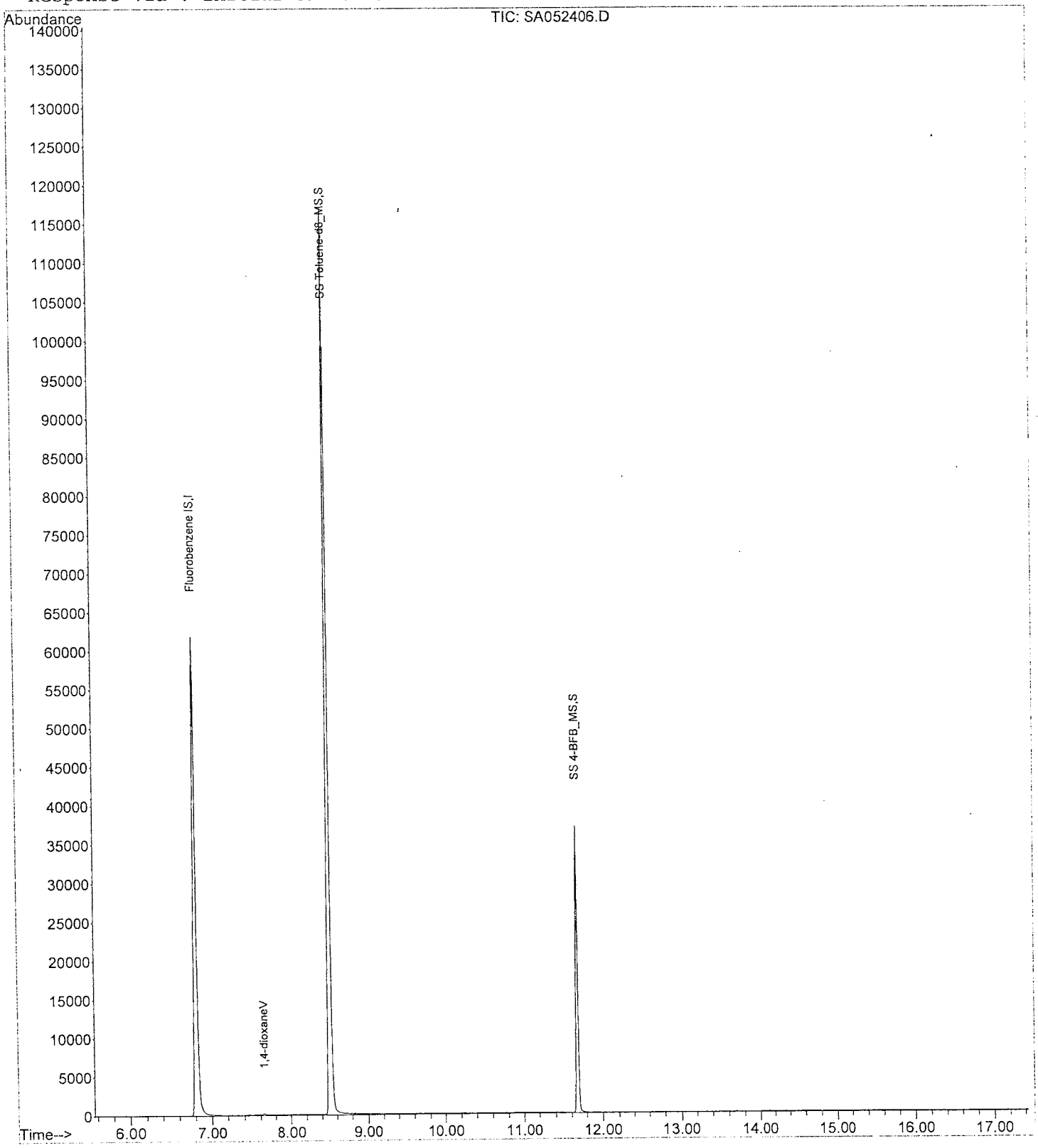
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	141577	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	154861	11.12	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.18%			
4) SS 4-BFB_MS	11.68	95	63244	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	148	0.448	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:55 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:05:39 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:38:10 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

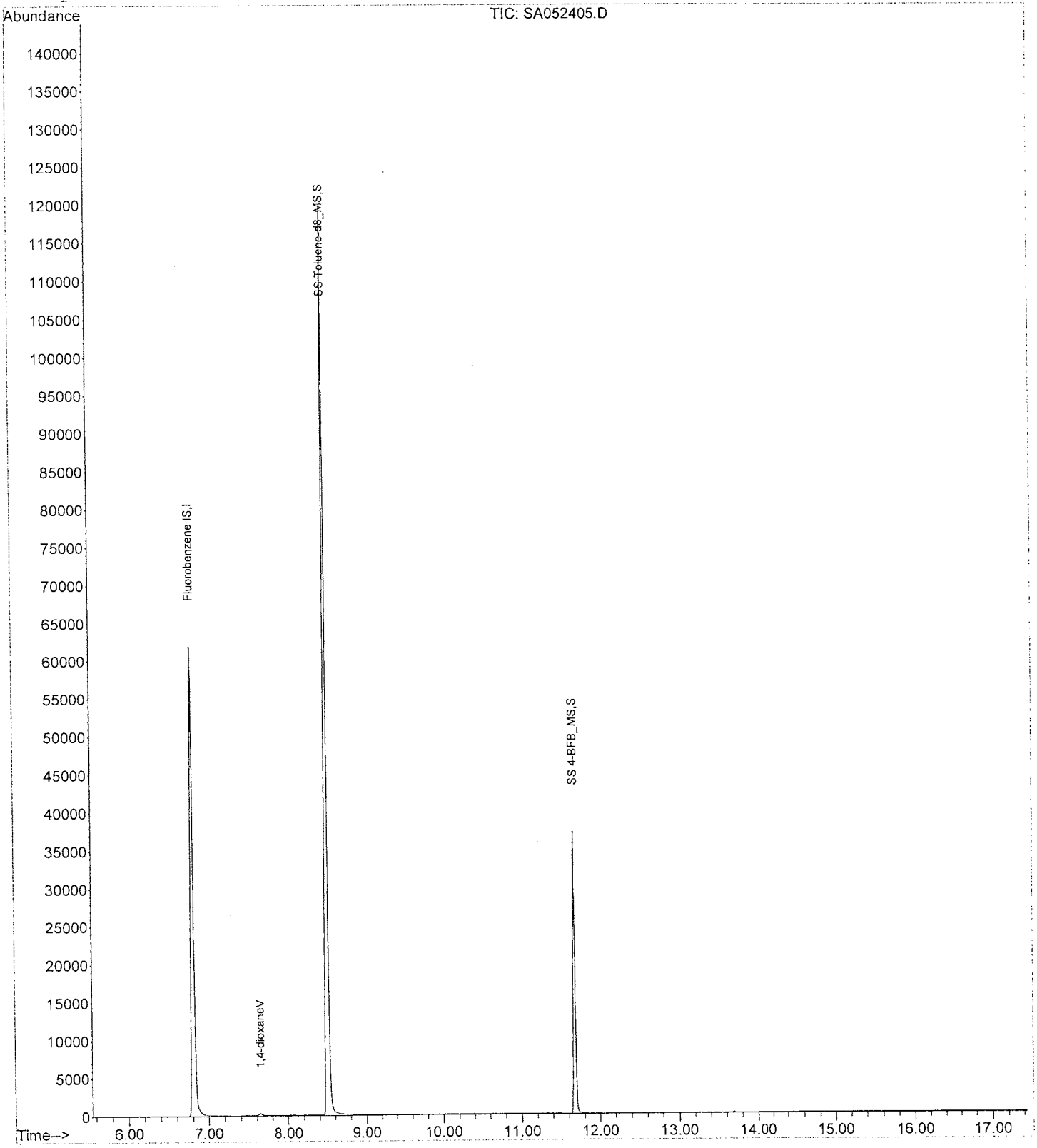
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140851	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	139222	10.07	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.71%			
4) SS 4-BFB_MS	11.68	95	62886	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.98%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	360m	1.149	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:32 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36:43 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

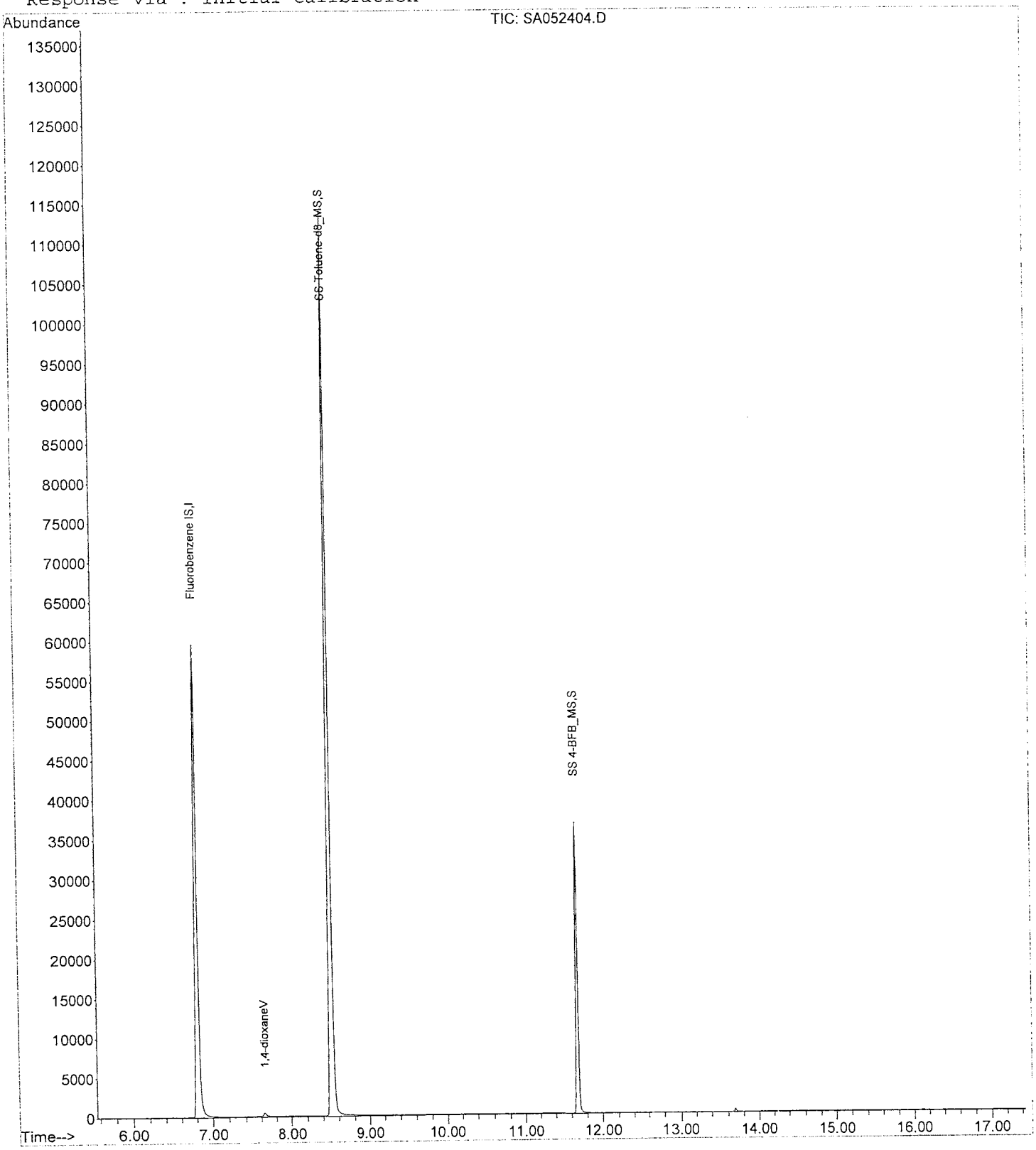
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	143436	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140522	10.35	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.54%			
4) SS 4-BFB_MS	11.67	95	63956	11.53	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.28%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	663	0.976	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30:25 2012 Quant Results File: 2SIM0510.RES

Quant Method : V:\1\METHODS\2012\2SIM0510.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

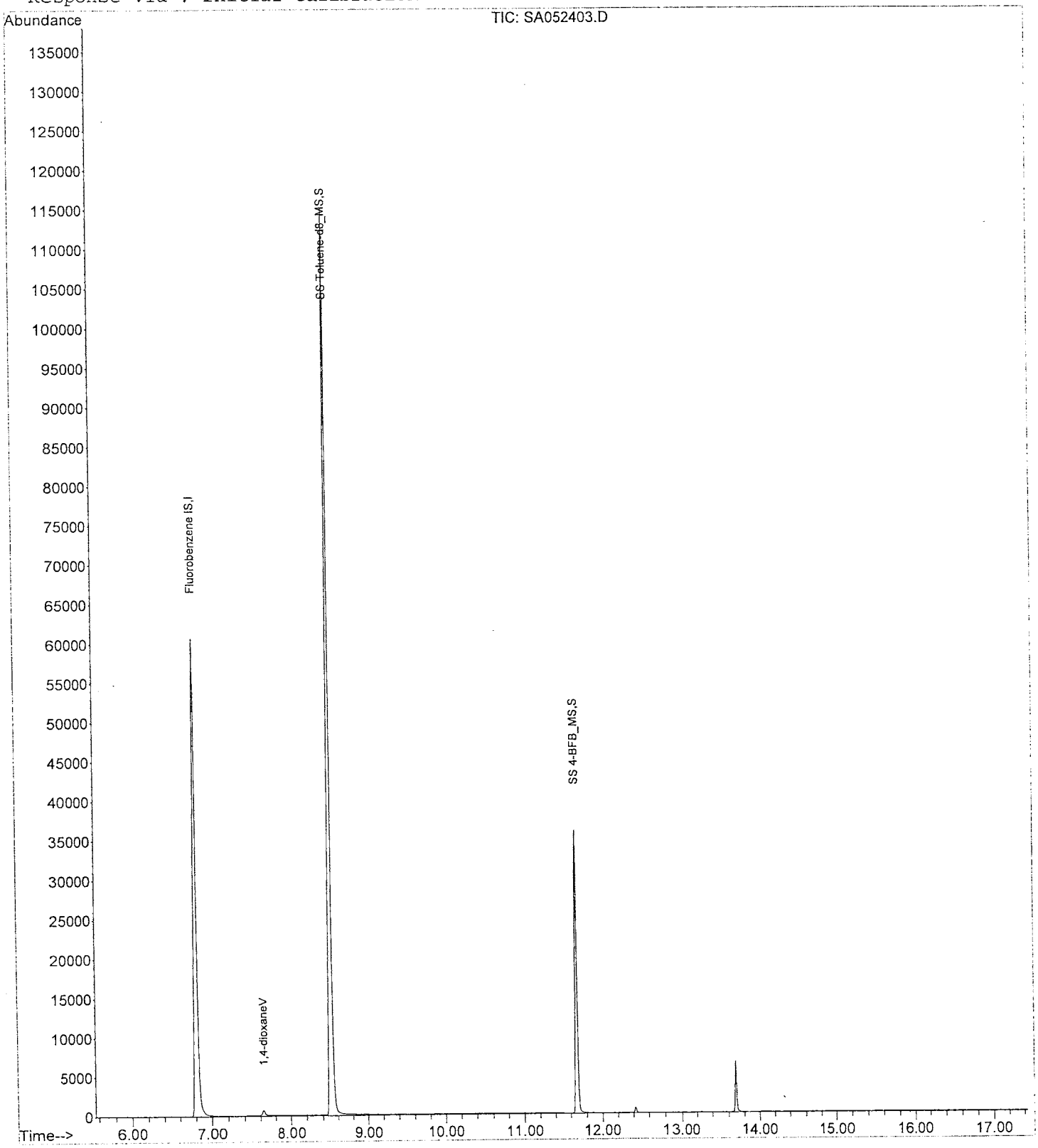
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	142091	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140152	10.42	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.24%			
4) SS 4-BFB_MS	11.67	95	63694	11.59	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.89%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	965	1.434	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30 2012 Quant Results File: 2SIM0510.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:05 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

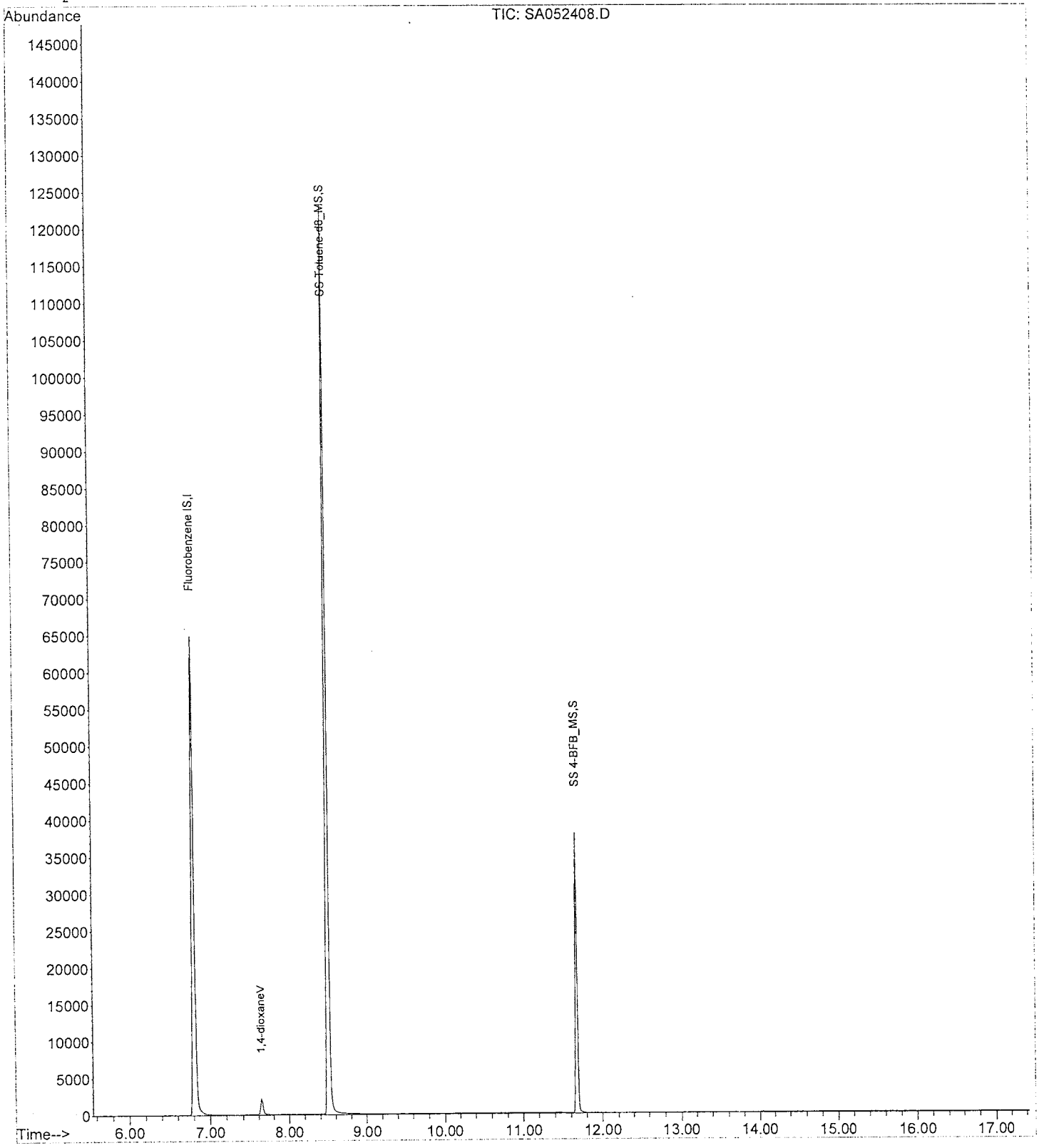
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	141523	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	139101	9.72	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.19%			
4) SS 4-BFB_MS	11.67	95	63437	10.04	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	2925	9.090	ug/L #	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:15 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

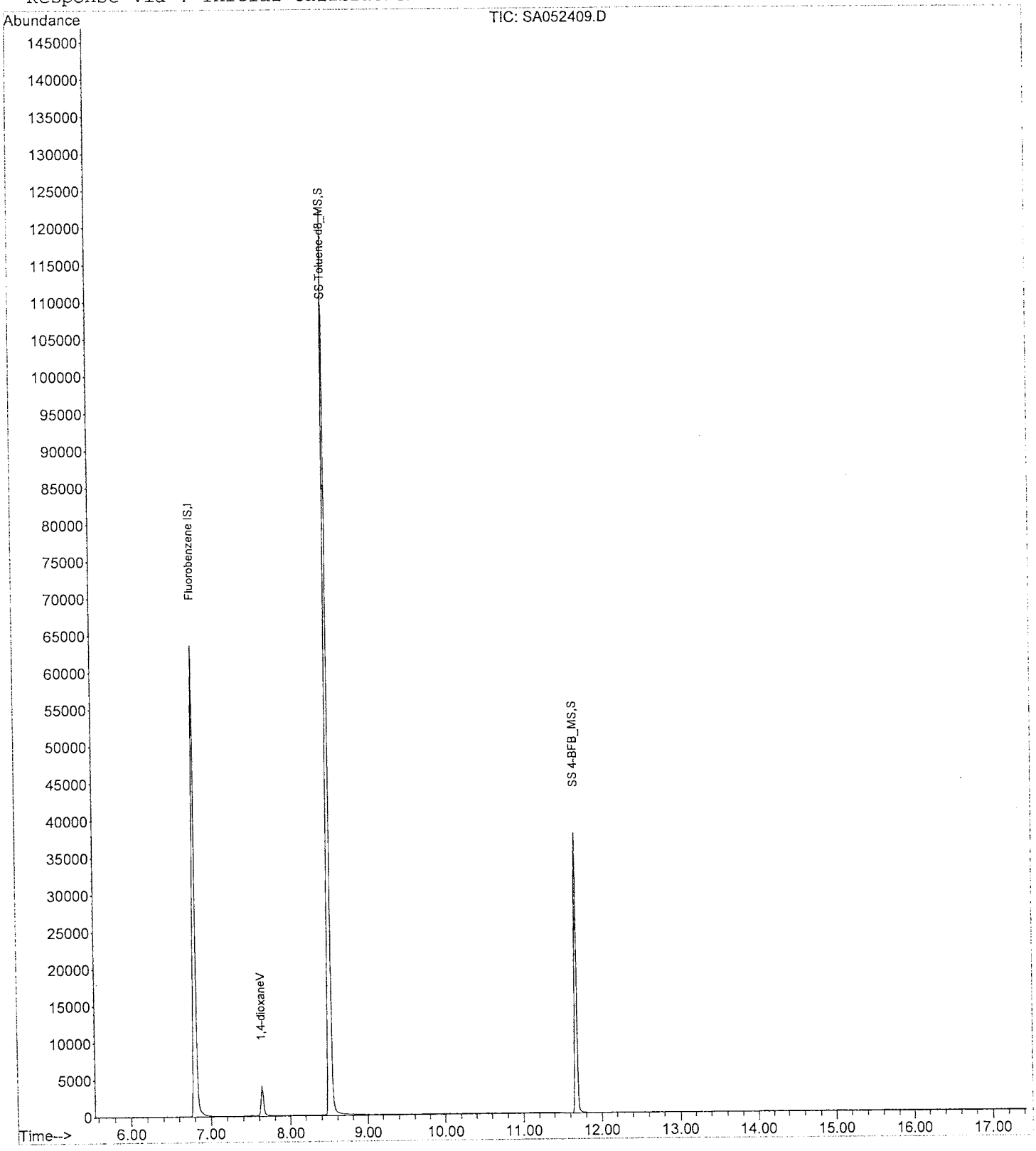
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	139806	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138348	9.78	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.85%			
4) SS 4-BFB_MS	11.67	95	63221	10.13	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.26%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	5262	16.554	ug/L #	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA052409.D 2SIM0524.M Fri Aug 31 10:59:46 2012

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

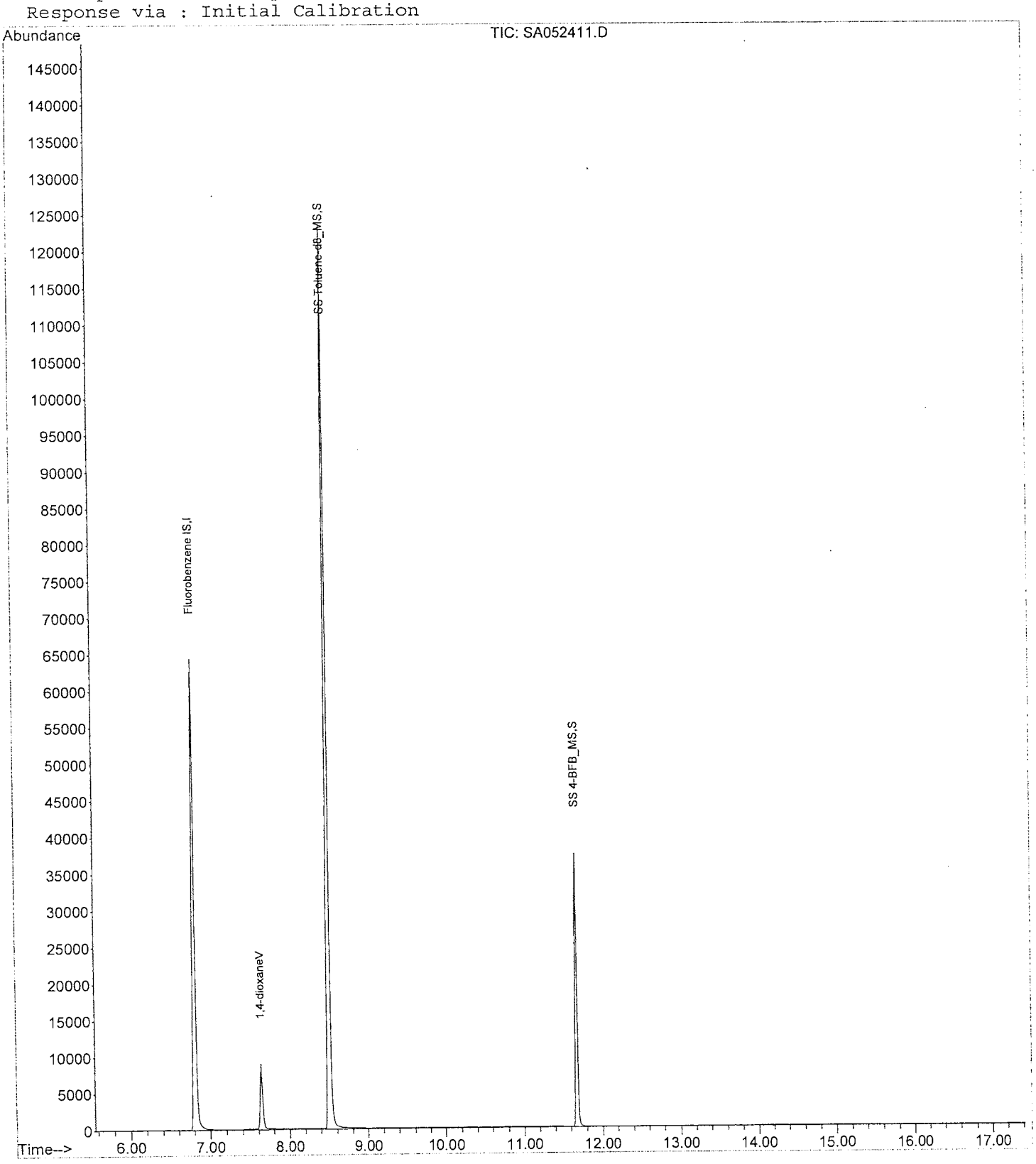
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140527	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138737	9.76	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.62%			
4) SS 4-BFB_MS	11.67	95	63685	10.15	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.48%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	11538	36.111	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:53:55 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

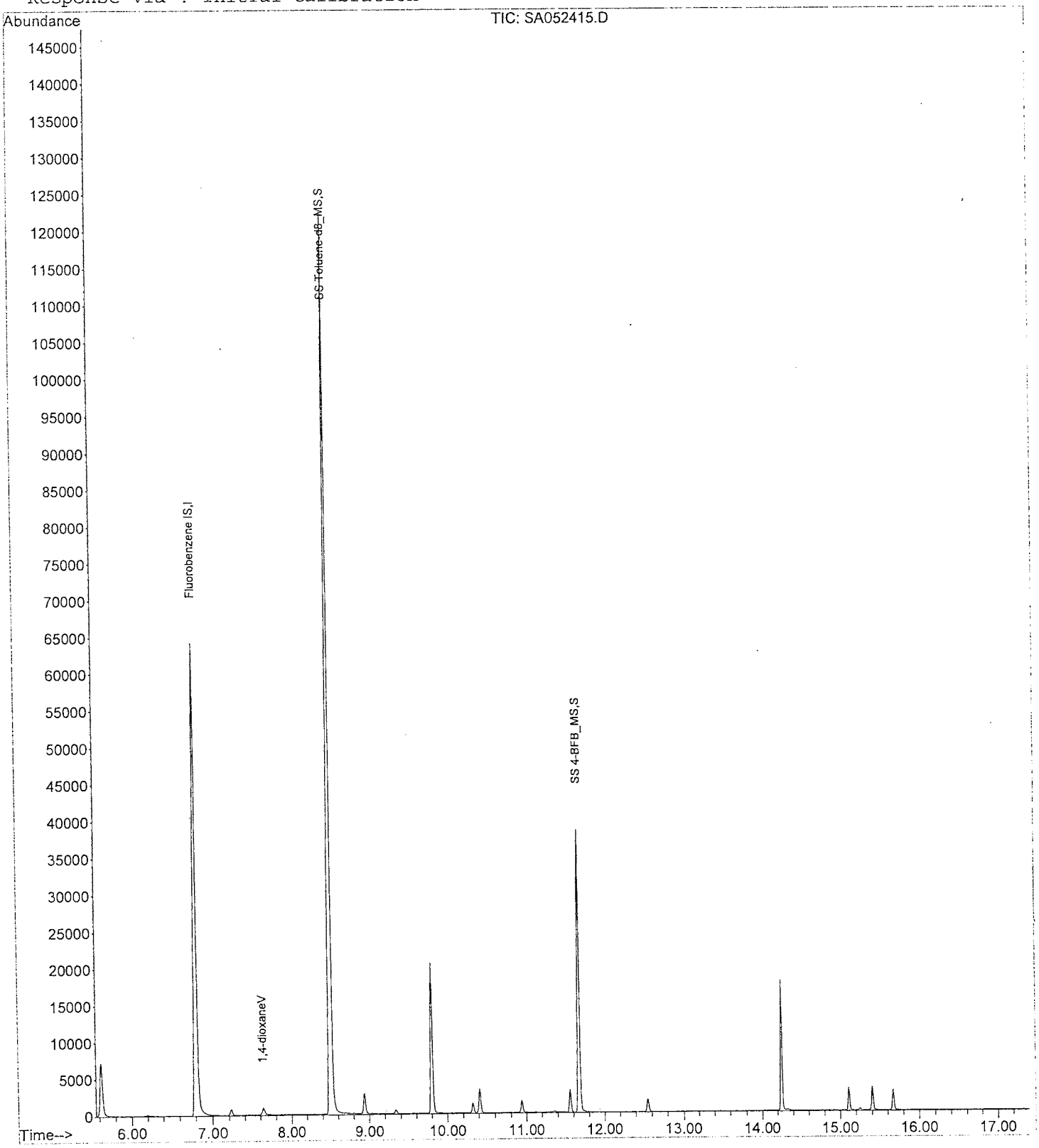
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	138992	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138030	9.94	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.44%			
4) SS 4-BFB_MS	11.67	95	63375	10.18	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.77%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1130	3.808	ug/L	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:53 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

1,4-Dioxane 8260B SIM

Sample and QC Data

IS/SS ID= V- 3974
Standard ID= V- 3933
LCS/LCSD and/or MS/MSD Standard ID= V- 3934

Analyst: VG

Date: 8/31/17

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SA083101	BFB		✓		X1	VOC MSI			
2	2	STD5		✓			VOC SIM	25|MS34		
3	3	LCS		✓			VOC			
4	4	LCSD		✓			VOC			
5	5	Blank		✓			VOC			
6	6	113053.03		✓		X10	VOC			
7	7	02		✓		X5	VOC			
8	8	05		✓			VOC			
9	9	06		✓			VOC			
10	10	08		✓			VOC			
11	11	09		✓			VOC			
12	12	10		✓			VOC			
13	13	07		✓			VOC			
14	14	07MS		✓			VOC			
15	15	07MSD		✓		↓	VOC		← Sequence Stopped	
16	16	STD0.25		✓		X1	VOC		CJF 9/2/17	
17	17	BFB		✓			VOC MSI			
18	18	STD5		✓			VOC SIM			
19	19	LCS		✓			VOC			
20	20	LCSD		✓			VOC			
21	21	Blank		✓			VOC			
22	22	113053.20		✓			VOC			
23	23	21		✓		↓	VOC			
24	24	14		✓		X10	VOC			
25	25	15		✓			VOC			
26	26	16		✓			VOC			
27	27	18		✓		↓	VOC			
28	28	17		✓		X5	VOC			
29	29	01		✓		X1	VOC			
30	30	13		✓		↓	VOC			
31	31						VOC			
							VOC			
							VOC			
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							VOC			
							VOC			

Samples removed from autosampler, order verified by_____

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\AUG12\AUG3112\SA083101.D
Tune Time : 31 Aug 2012 7:55 am

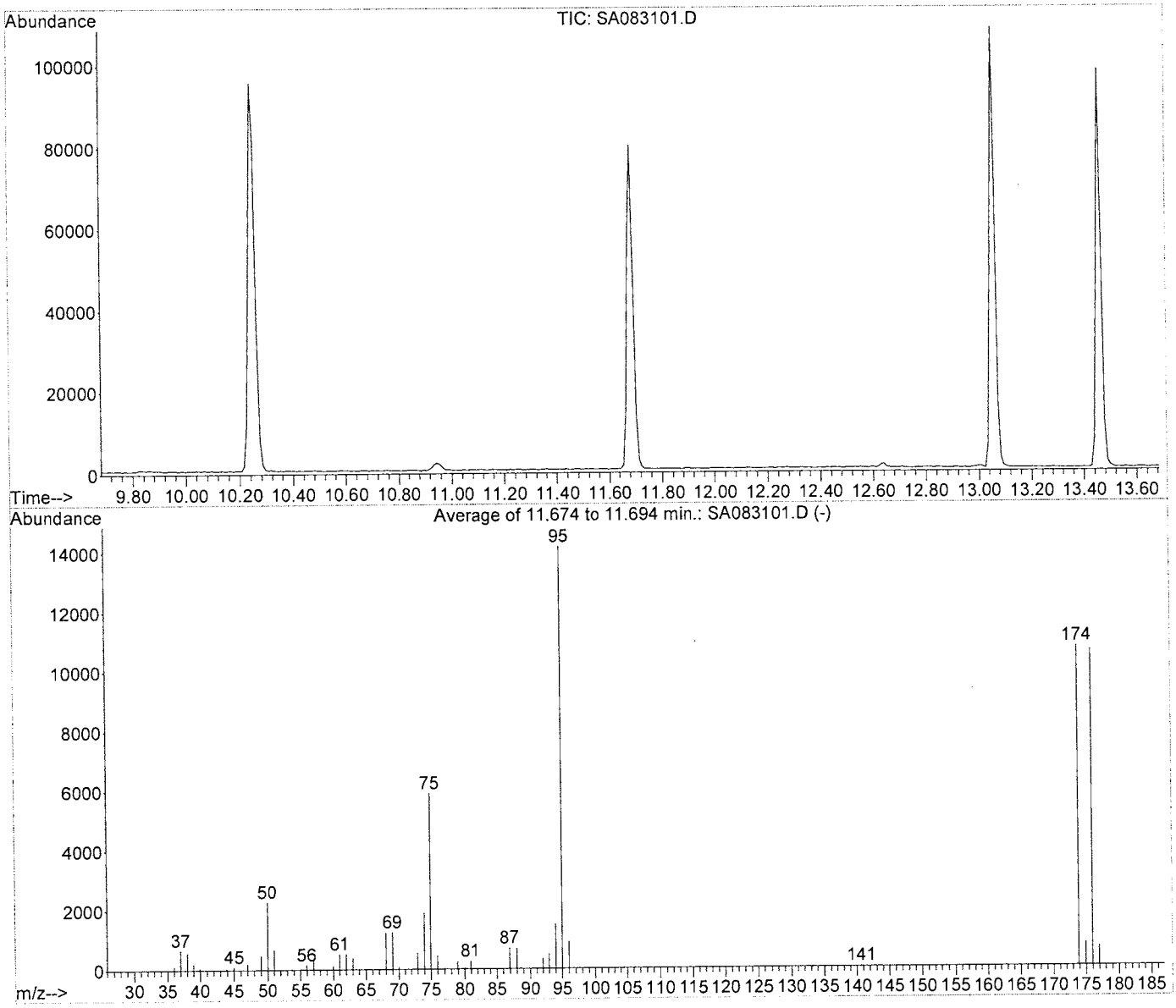
Daily Calibration File : V:\1\DATA\2012\AUG12\AUG3112\SA083102.D

				129211
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA083102.D	STD5	97	86	129211
SA083103.D	LCS5	99	81	116415
SA083104.D	LCSD5	90	91	122621
SA083105.D	BLANK	95	83	124317
SA083106.D	113653.03	90	85	120464
SA083107.D	113653.02	88	82	119597
SA083108.D	113653.05	94	97	114565
SA083109.D	113653.06	98	100	110630
SA083110.D	113653.08	91	80	125262
SA083111.D	113653.09	108	84	114320
SA083112.D	113653.10	96	81	124514
SA083113.D	113653.07	96	88	110832

t - fails 12hr time check * - fails criteria

Created: Mon Sep 10 11:04:37 2012 VOAMS2

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083101.D Vial: 1
Acq On : 31 Aug 2012 7:55 am Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.674 to 11.694 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	2279	PASS
75	95	30	60	41.7	5904	PASS
95	95	100	100	100.0	14170	PASS
96	95	5	9	6.4	910	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.7	10725	PASS
175	174	5	9	7.2	773	PASS
176	174	95	101	98.8	10600	PASS
177	176	5	9	6.2	660	PASS

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083102.D Vial: 2
Acq On : 31 Aug 2012 8:46 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	92	0.02
2		1,4-dioxaneV	5.000	4.538	9.2	83	0.03
3	S	SS Toluene-d8_MS	10.000	9.666	3.3	90	0.02
4	S	SS 4-BFB_MS	10.000	8.558	14.4	79	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA083102.D 2SIM0524.M Fri Aug 31 09:12:08 2012

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083102.D Vial: 2
Acq On : 31 Aug 2012 8:46 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 09:11:41 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

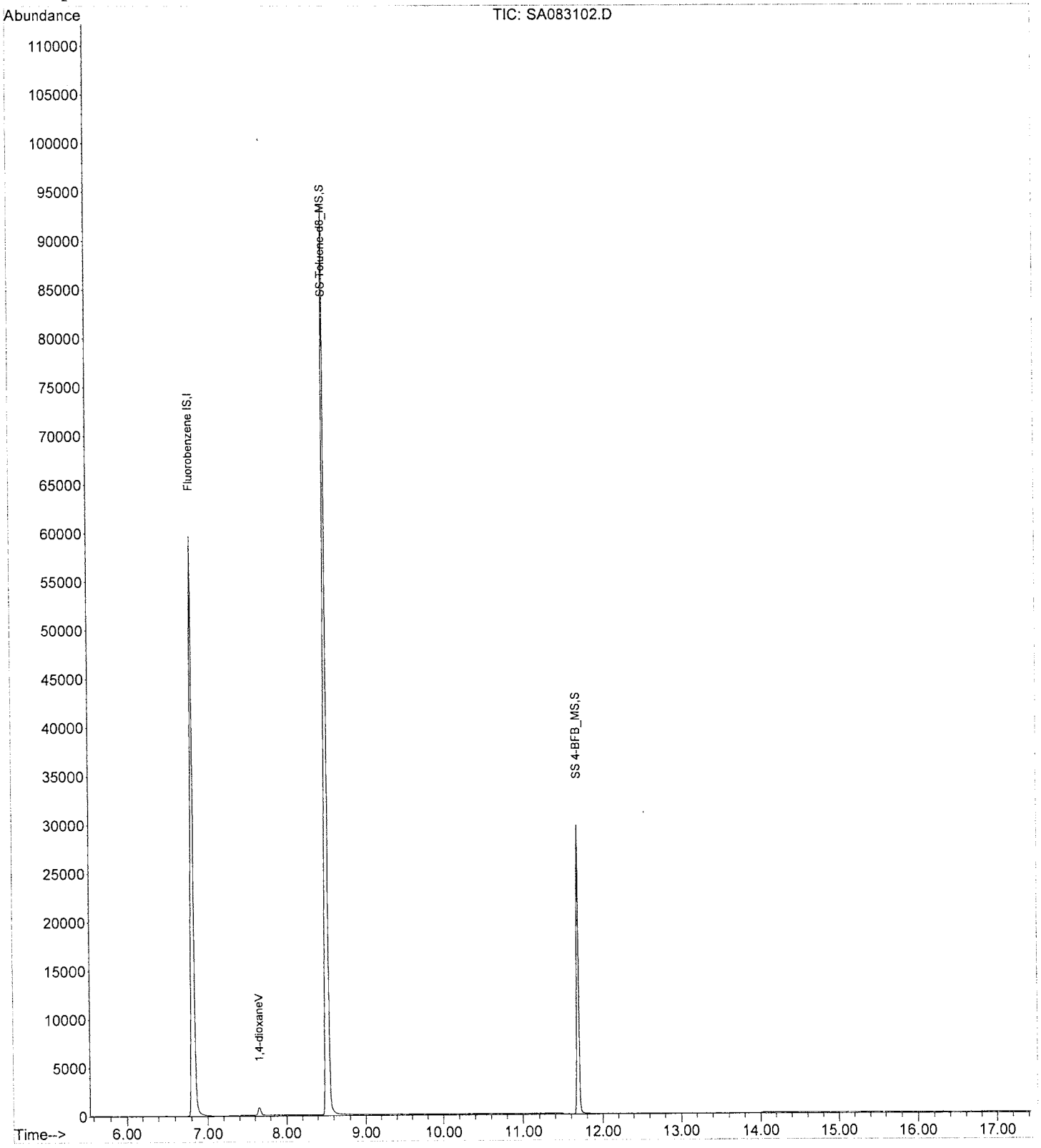
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	129211	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	124727	9.67	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.66%			
4) SS 4-BFB_MS	11.69	95	49547	8.56	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.58%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1252	4.538	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083102.D Vial: 2
Acq On : 31 Aug 2012 8:46 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 9:11 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083103.D Vial: 3
Acq On : 31 Aug 2012 9:37 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:56:31 2012 Quant Results File: 2SIM0524.RES

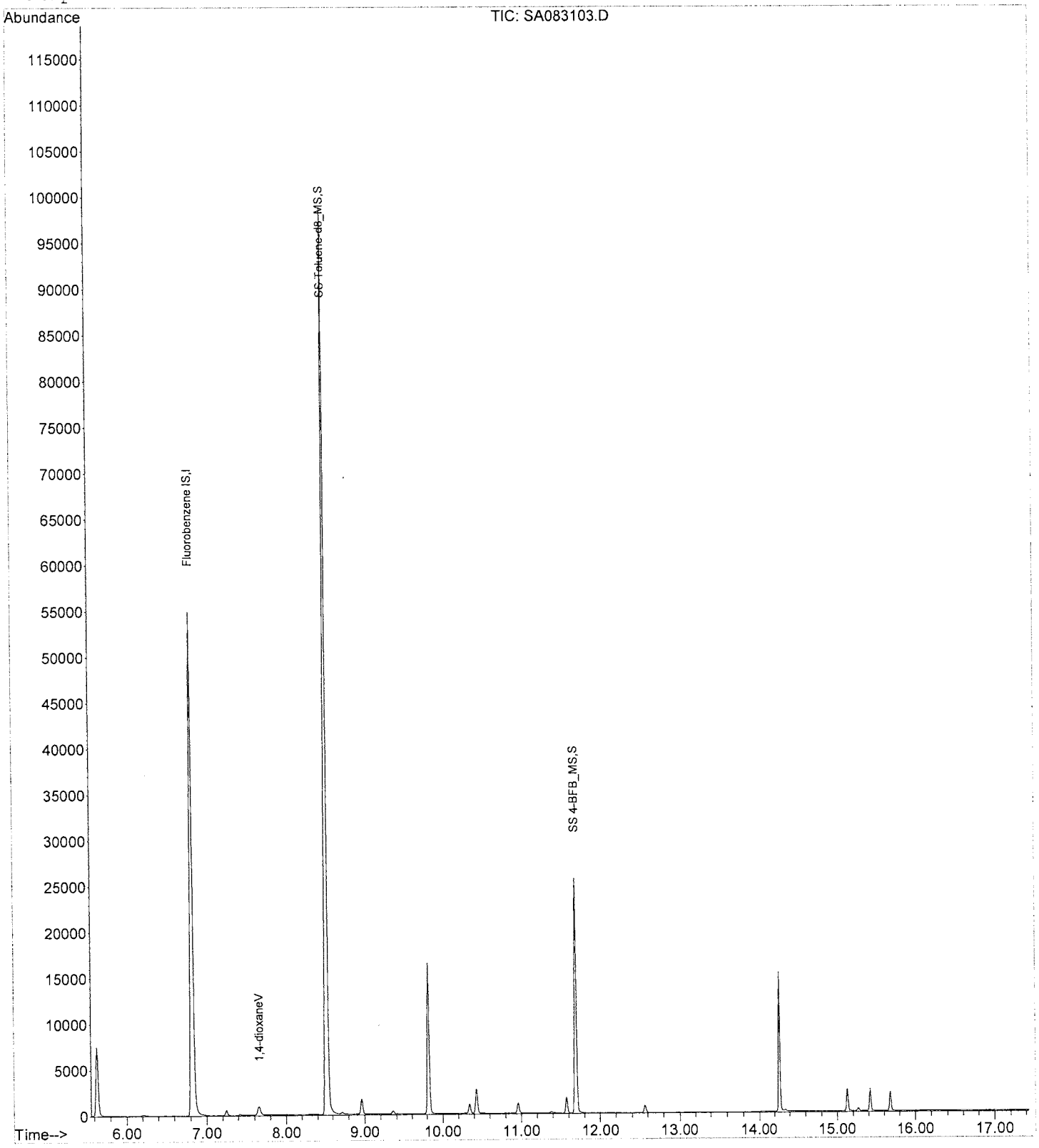
Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS		6.82	96	116415	10.000	ug/L	0.02
System Monitoring Compounds							
3) SS Toluene-d8_MS		8.52	98	114621	9.86	ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery =	98.59%		
4) SS 4-BFB_MS		11.69	95	42472	8.14	ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery =	81.43%		
Target Compounds							Qvalue
2) 1,4-dioxaneV		7.66	88	1303	5.242	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083103.D Vial: 3
Acq On : 31 Aug 2012 9:37 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:55 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083104.D Vial: 4
Acq On : 31 Aug 2012 10:27 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:56:43 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

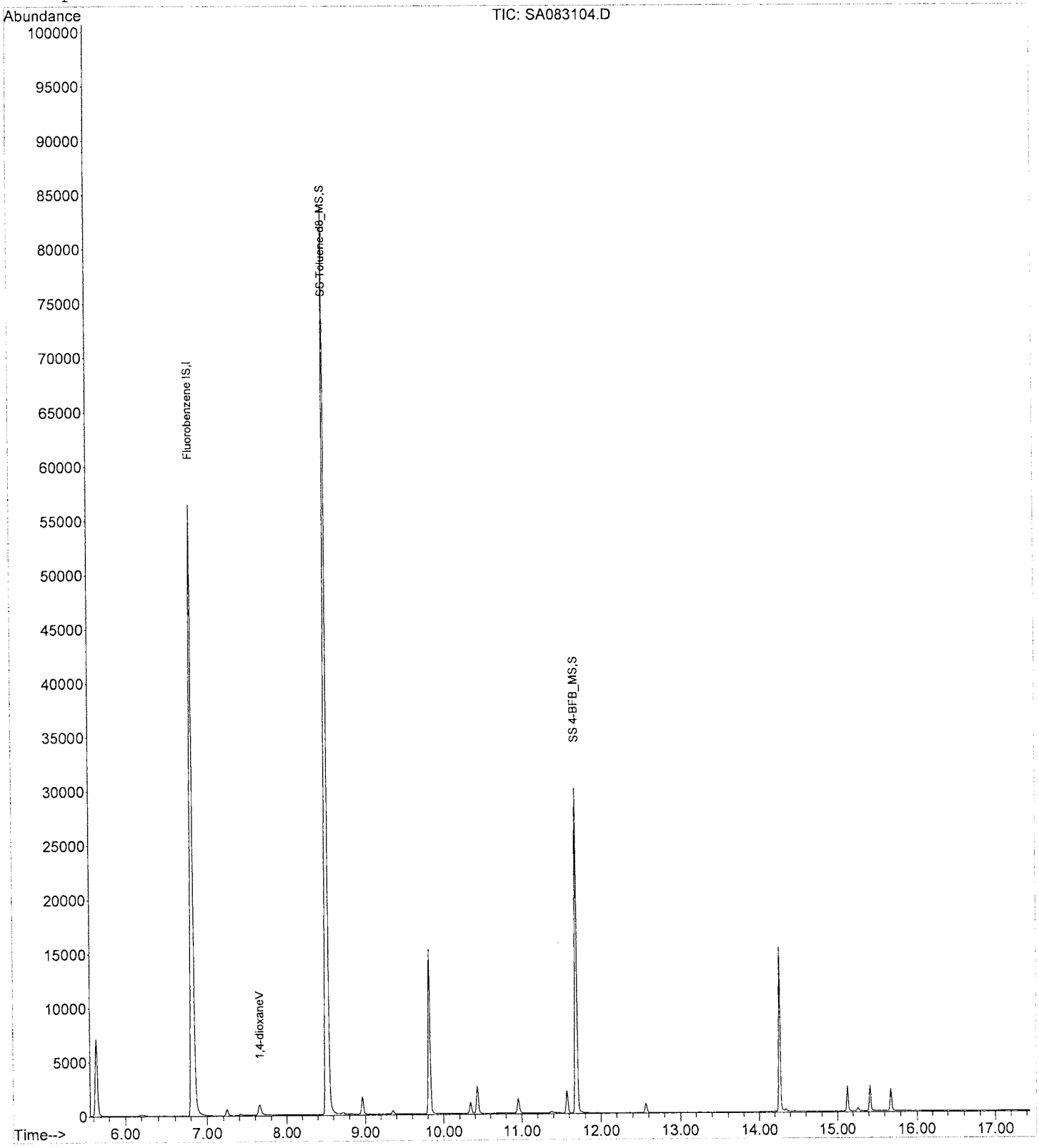
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	122621	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	109843	8.97	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.70%			
4) SS 4-BFB_MS	11.69	95	50011	9.10	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.03%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1351	5.161	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083104.D Vial: 4
Acq On : 31 Aug 2012 10:27 am Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 10:56 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083105.D Vial: 5
Acq On : 31 Aug 2012 11:18 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 11:38:38 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

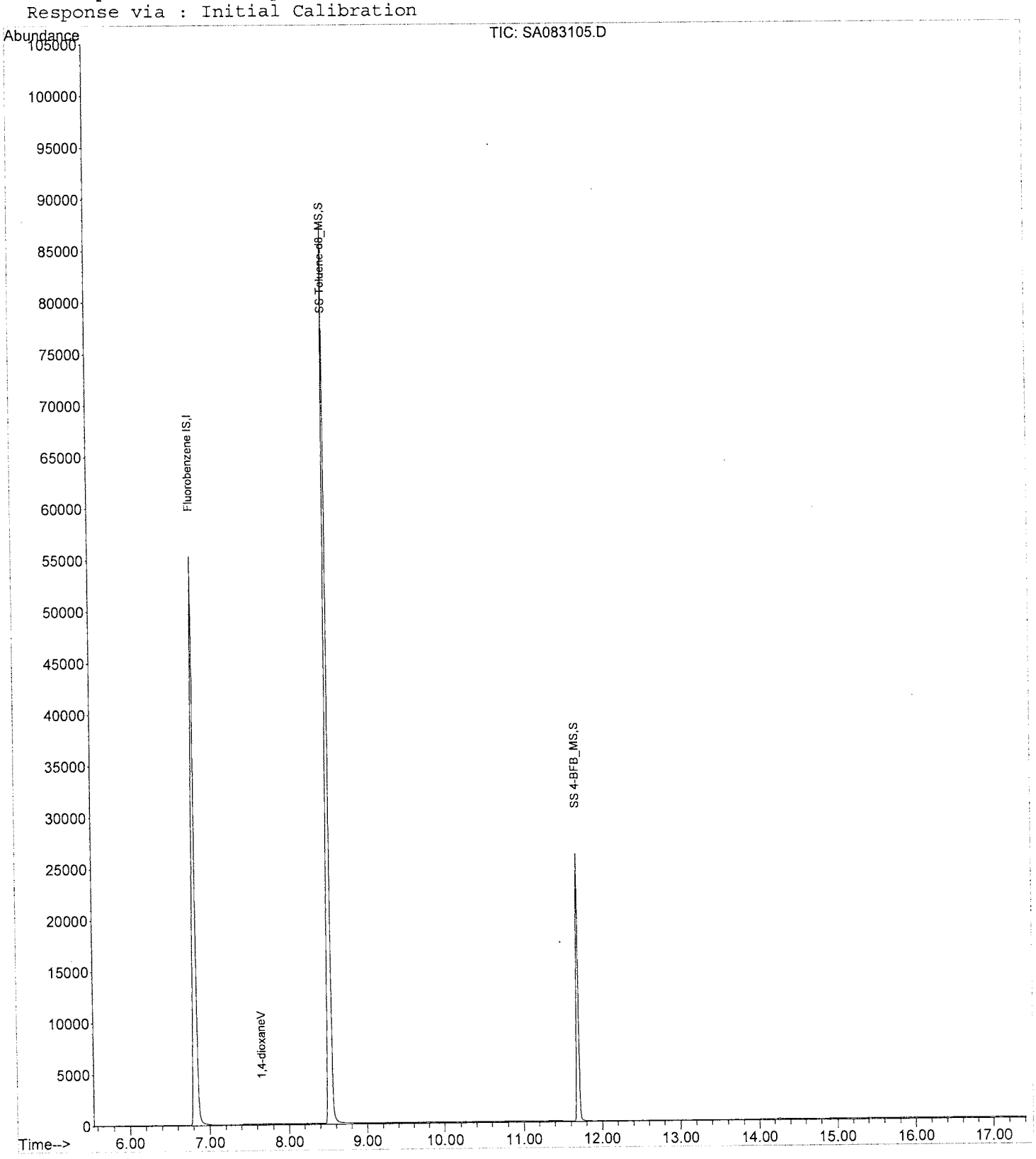
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	124317	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	118298	9.53	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.28%			
4) SS 4-BFB_MS	11.69	95	46170	8.29	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.89%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	20	0.075	ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083105.D Vial: 5
Acq On : 31 Aug 2012 11:18 am Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Aug 31 11:38 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083106.D Vial: 6
Acq On : 31 Aug 2012 12:08 pm Operator: VG
Sample : 113653.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:08 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	120464	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	107740	8.96	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.56%			
4) SS 4-BFB_MS	11.69	95	46011	8.52	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.25%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1428	5.552	ug/L	97

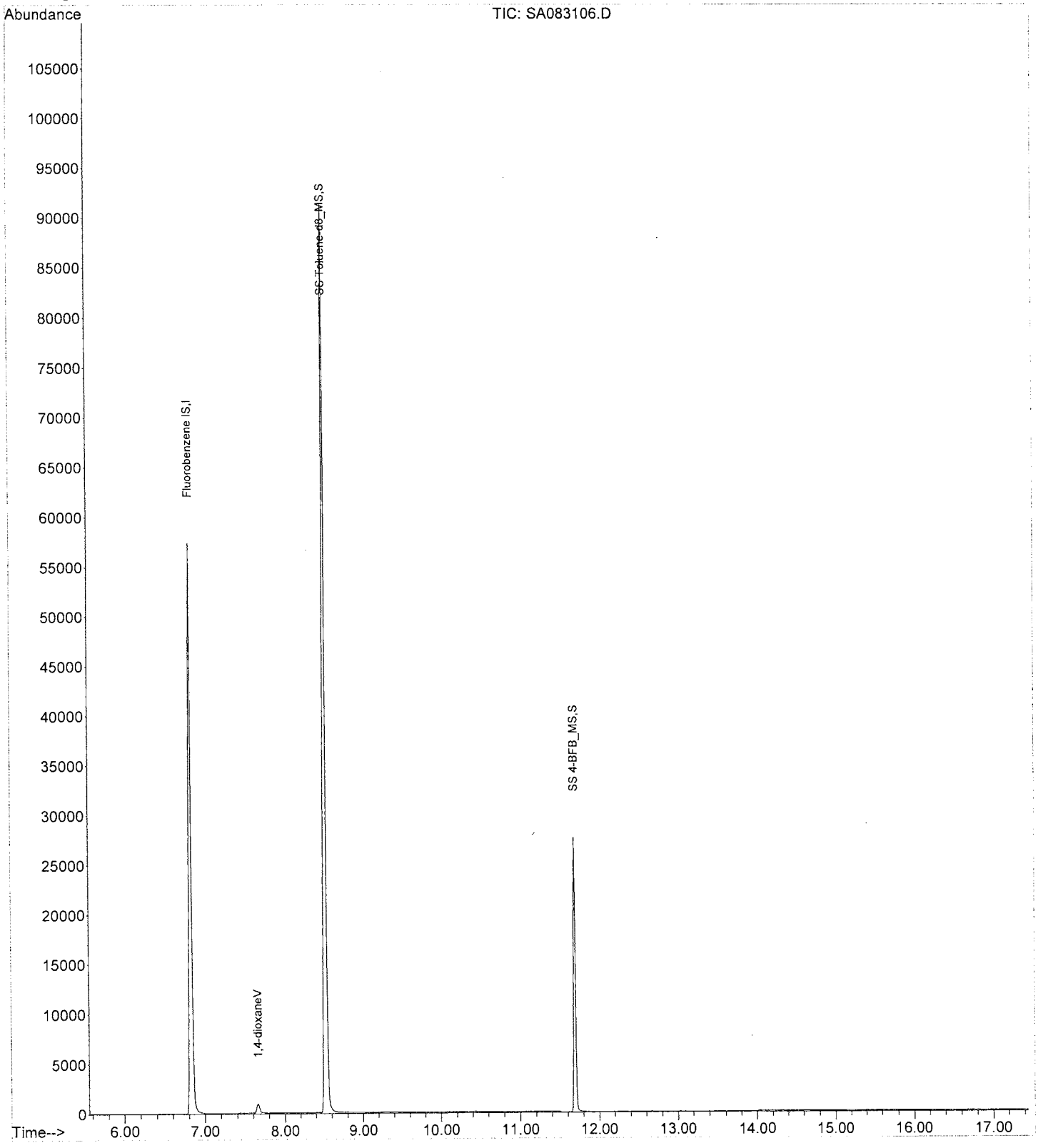
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083106.D Vial: 6
Acq On : 31 Aug 2012 12:08 pm Operator: VG
Sample : 113653.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083107.D Vial: 7
Acq On : 31 Aug 2012 12:59 pm Operator: VG
Sample : 113653.02 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:15 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	119597	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.53	98	104631	8.76	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.60%			
4) SS 4-BFB_MS	11.69	95	44145	8.24	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.38%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1515	5.933	ug/L	100

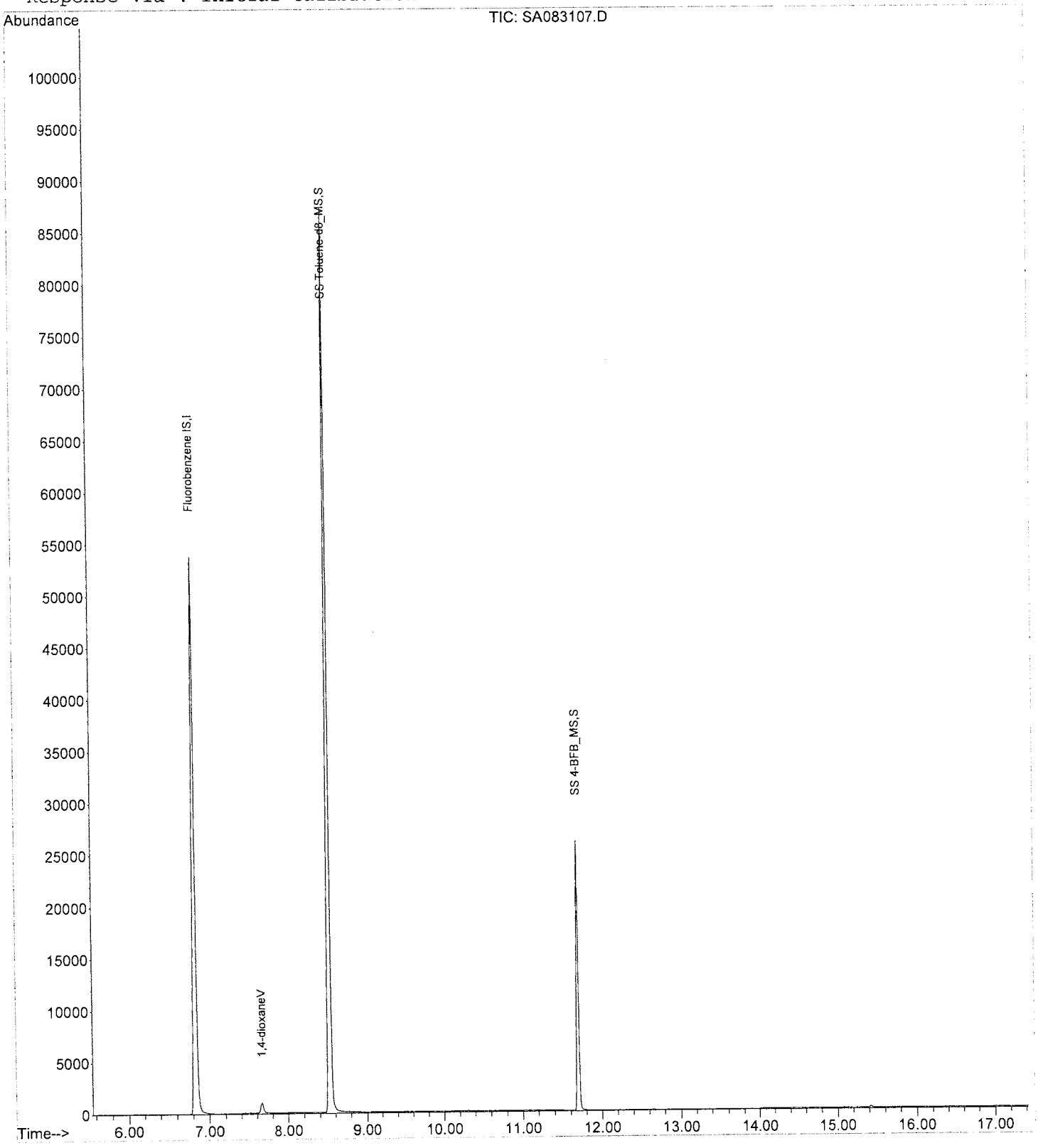
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083107.D 2SIM0524.M Mon Sep 10 10:04:16 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083107.D Vial: 7
Acq On : 31 Aug 2012 12:59 pm Operator: VG
Sample : 113653.02 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083108.D Vial: 8
Acq On : 31 Aug 2012 1:50 pm Operator: VG
Sample : 113653.05 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:18 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	114565	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	108021	9.44	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.41%			
4) SS 4-BFB_MS	11.69	95	49746	9.69	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.91%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	775	3.168	ug/L	96

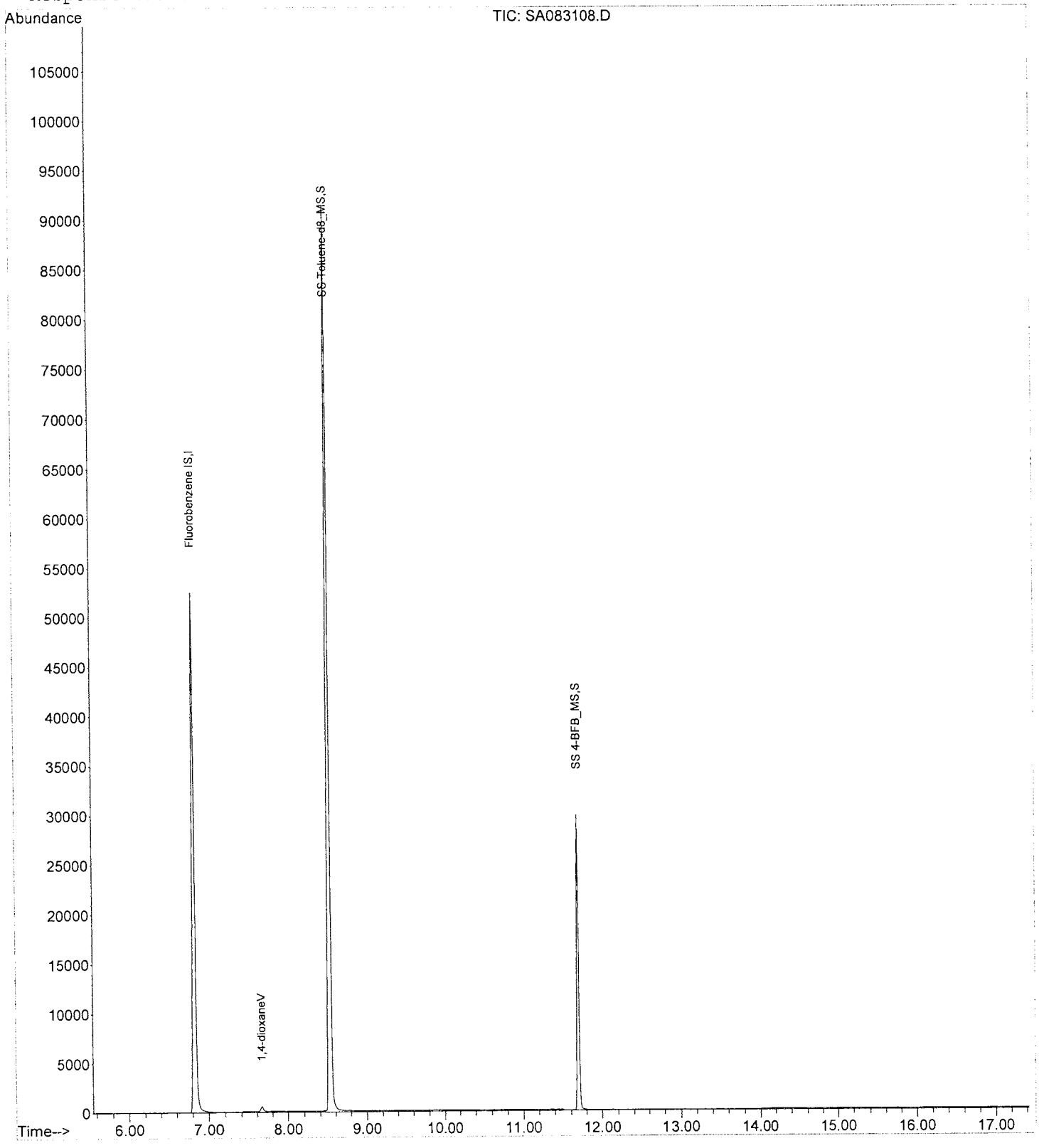
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083108.D 2SIM0524.M Mon Sep 10 10:04:18 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083108.D Vial: 8
Acq On : 31 Aug 2012 1:50 pm Operator: VG
Sample : 113653.05 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083109.D Vial: 9
Acq On : 31 Aug 2012 2:40 pm Operator: VG
Sample : 113653.06 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:21 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	110630	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.53	98	108120	9.79 ug/L	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.86%		
4) SS 4-BFB_MS	11.69	95	49363	9.96 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.66	88	1127	4.771 ug/L	98

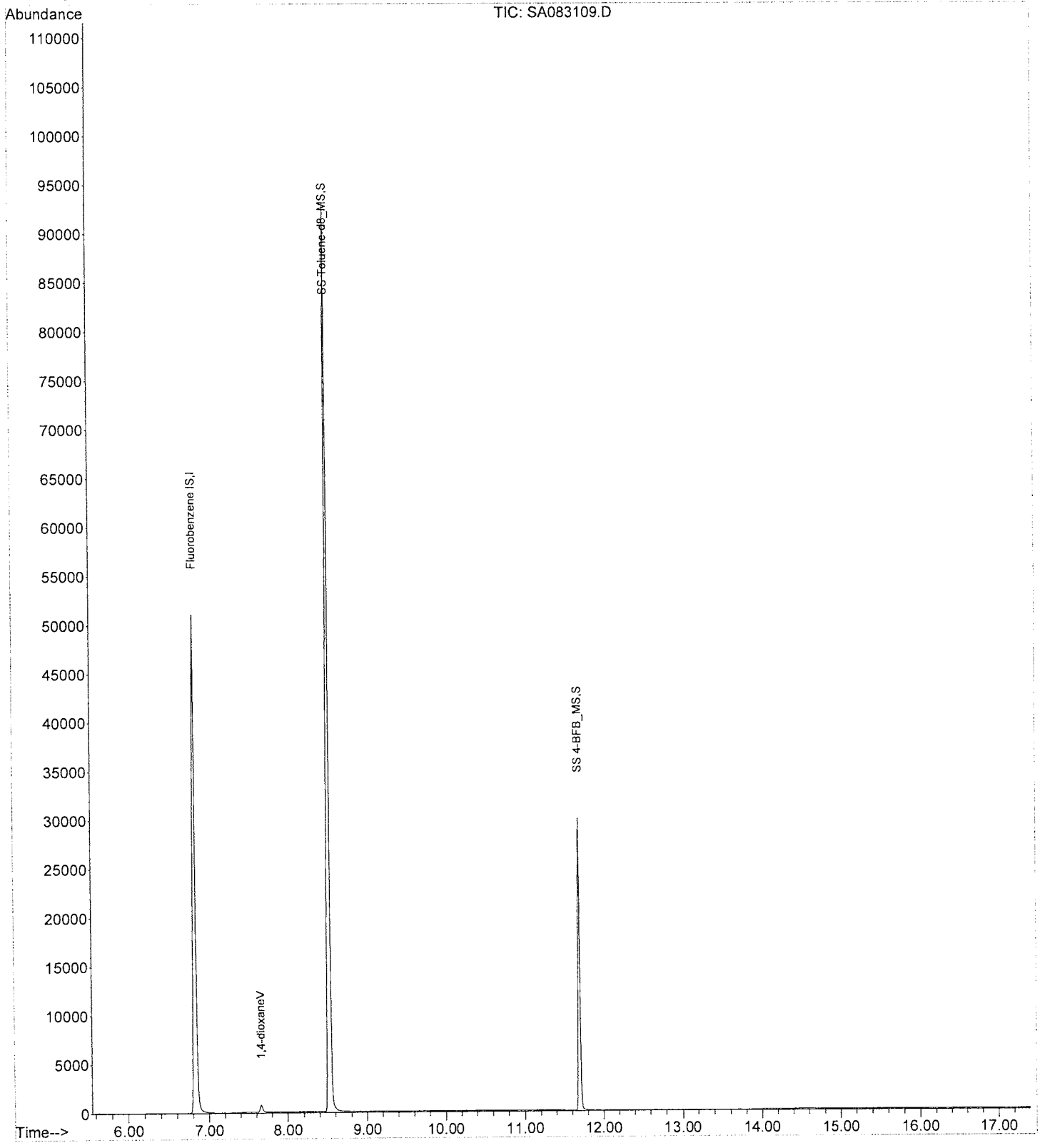
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083109.D 2SIM0524.M Mon Sep 10 10:04:22 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083109.D Vial: 9
Acq On : 31 Aug 2012 2:40 pm Operator: VG
Sample : 113653.06 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083110.D Vial: 10
Acq On : 31 Aug 2012 3:31 pm Operator: VG
Sample : 113653.08 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:24 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	125262	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.53	98	114347	9.14	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.41%			
4) SS 4-BFB_MS	11.69	95	45168	8.05	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 80.48%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	1295	4.842	ug/L	94

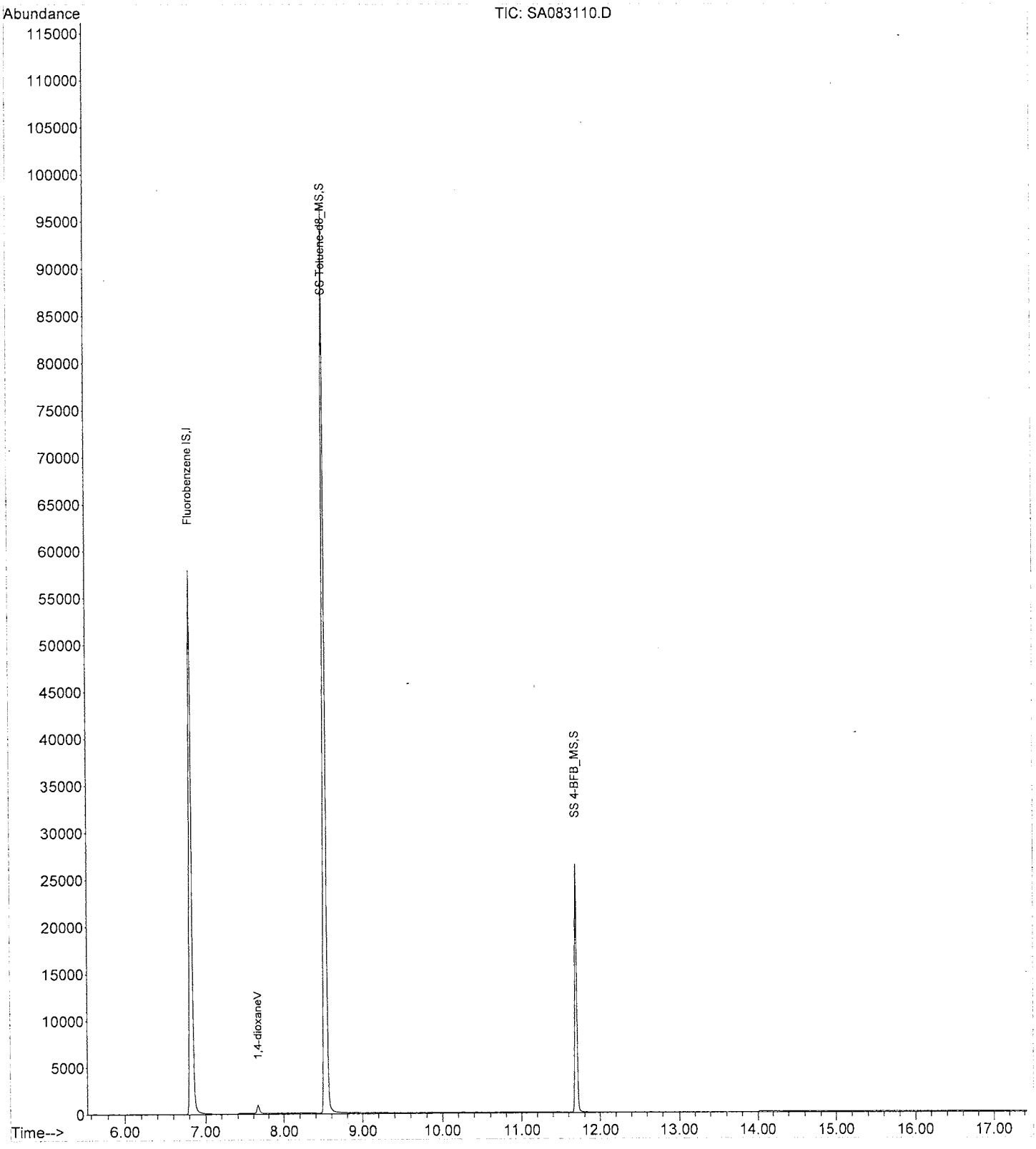
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083110.D Vial: 10
Acq On : 31 Aug 2012 3:31 pm Operator: VG
Sample : 113653.08 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083111.D Vial: 11
Acq On : 31 Aug 2012 4:21 pm Operator: VG
Sample : 113653.09 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:27 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.84	96	114320	10.000	ug/L	0.04
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.54	98	123270	10.80	ug/L	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.97%			
4) SS 4-BFB_MS	11.71	95	43138	8.42	ug/L	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.22%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.68	88	20	0.082	ug/L	77

Rerun x1

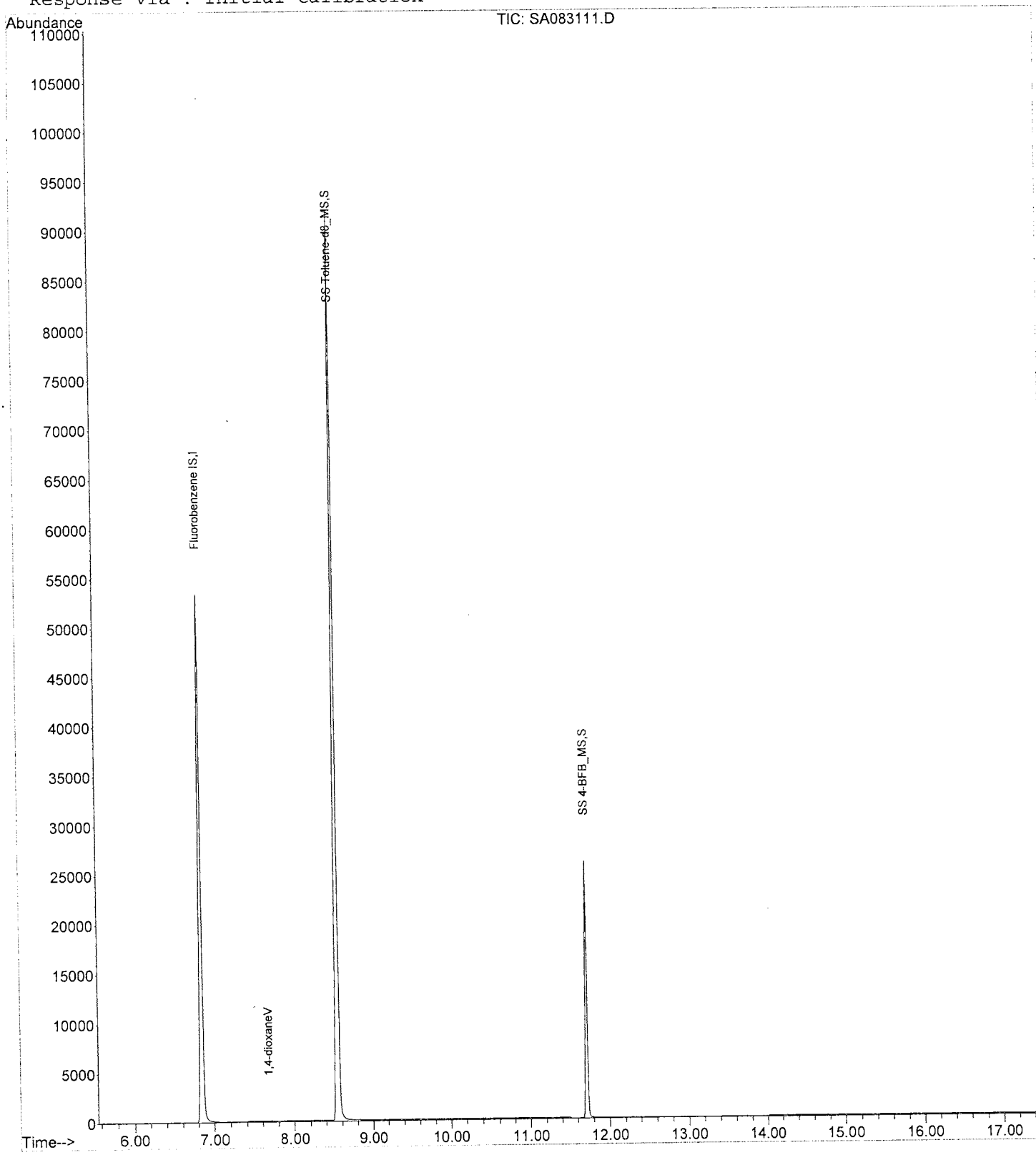
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083111.D Vial: 11
Acq On : 31 Aug 2012 4:21 pm Operator: VG
Sample : 113653.09 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083112.D Vial: 12
Acq On : 31 Aug 2012 5:12 pm Operator: VG
Sample : 113653.10 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:30 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.83	96	124514	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	119775	9.63	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.32%			
4) SS 4-BFB_MS	11.69	95	45309	8.12	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.22%			

Target Compounds Qvalue

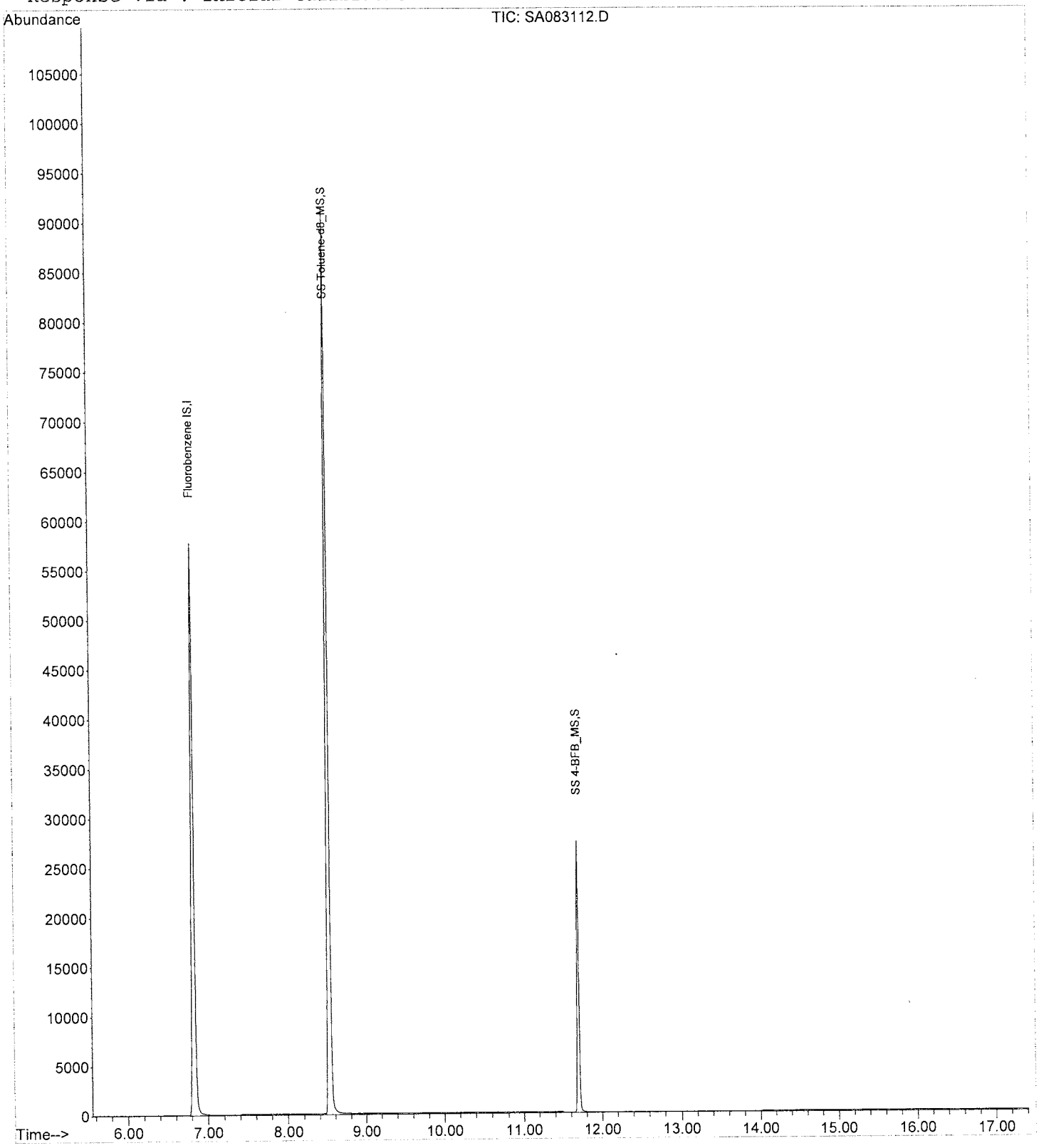
Rerun x1
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA083112.D 2SIM0524.M Mon Sep 10 10:04:31 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083112.D Vial: 12
Acq On : 31 Aug 2012 5:12 pm Operator: VG
Sample : 113653.10 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083113.D Vial: 13
Acq On : 31 Aug 2012 6:02 pm Operator: VG
Sample : 113653.07 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04:33 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS		6.83	96	110832	10.000	ug/L	0.02
System Monitoring Compounds							
3) SS Toluene-d8_MS		8.53	98	106078	9.58	ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery =	95.84%		
4) SS 4-BFB_MS		11.69	95	43469	8.75	ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery =	87.54%		
Target Compounds							Qvalue
2) 1,4-dioxaneV		7.66	88	1279	5.405	ug/L	93

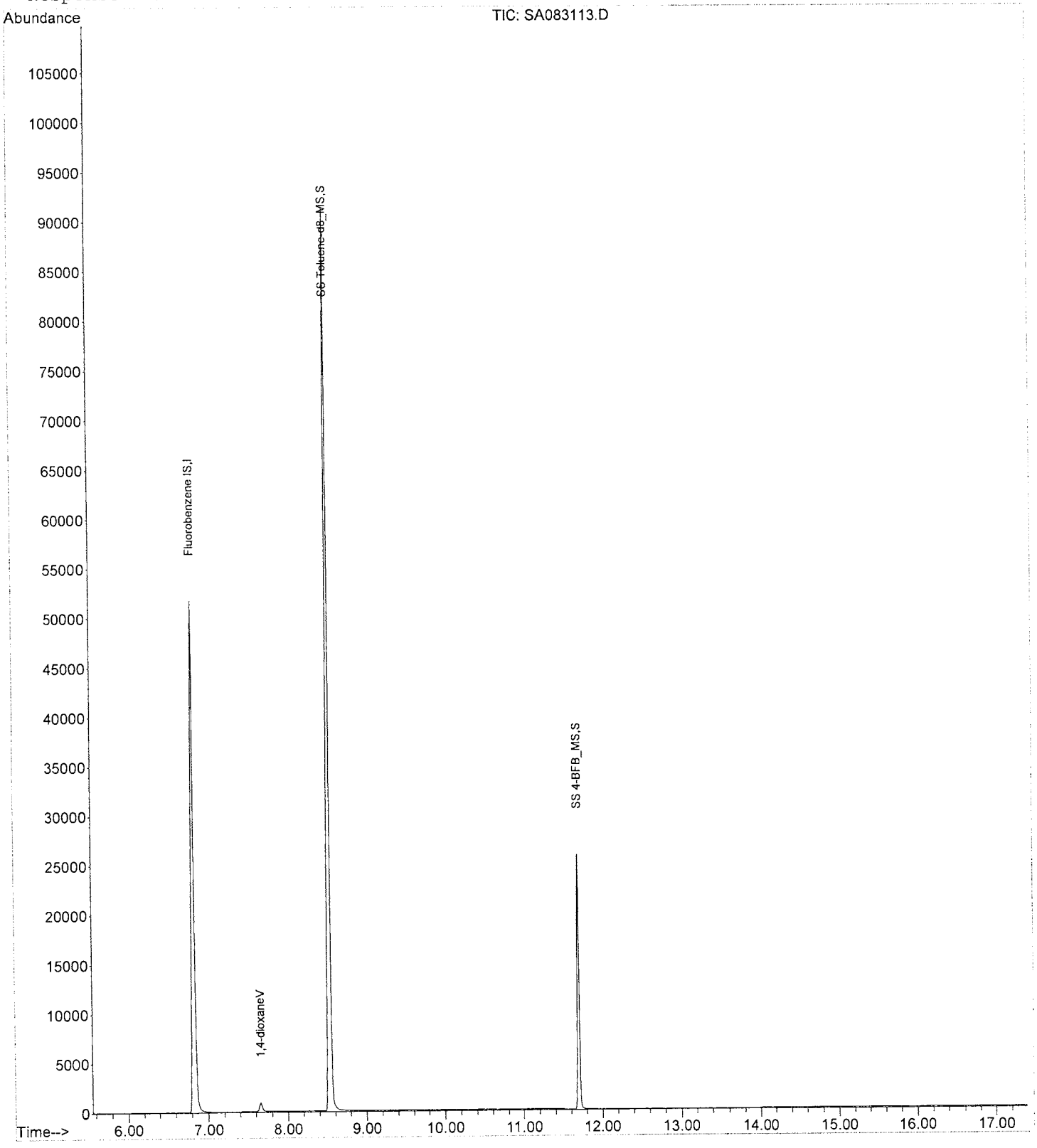
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\AUG12\AUG3112\SA083113.D Vial: 13
Acq On : 31 Aug 2012 6:02 pm Operator: VG
Sample : 113653.07 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:04 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



VOAMS2 Analysis Run Log

IS/SS ID= V- 3974
Standard ID= V- 3933
LCS/LCSD and/or MS/MSD Standard ID= V- 3936

Analyst: VG

Date: 9/2/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SA0910201	BFB		✓		x1	VOC MSI			
2	2	STD5		✓		↓	VOC SIM	25IMD34		
3	3	LCS5		✓		↓	VOC			
4	4	LCSD5		✓		↓	VOC			
5	5	113653.07MS		✓		x5	VOC			
6	6	113653.07MSD		✓		↓	VOC			
7	7	Blank		✓		x1	VOC			
8	8	113653.20		✓		x1	VOC			
9	9	~~X23~~		✓		↓	VOC			
10	10	113653.14	[illegible]	✓		x10	VOC			
11	11	15		✓		↓	VOC			
12	12	16		✓		↓	VOC			
13	13	18		✓		↓	VOC			
14	14	17		✓		x5	VOC			
15	15	01		✓		x1	VOC			
16	16	STD0.25		✓		↓	VOC			
17	17	BFB		✓		↓	VOC MSI			
18	18	STD5		✓		↓	VOC SIM			
19	19	LCS5		✓		↓	VOC			
20	20	LCSD5		✓		↓	VOC			
21	21	Blank		✓		↓	VOC			
22	22	113653.09	✓	✓		~~x5~~ x1	VOC			
23	23	10	✓	✓		x1	VOC			
24	24	13				x1	VOC			
							VOC			
							VOC			
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							VOC			

Samples removed from autosampler, order verified by VGP 9/5/12

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\SEP12\SEP0212\SA090201.D
Tune Time : 2 Sep 2012 6:03 pm

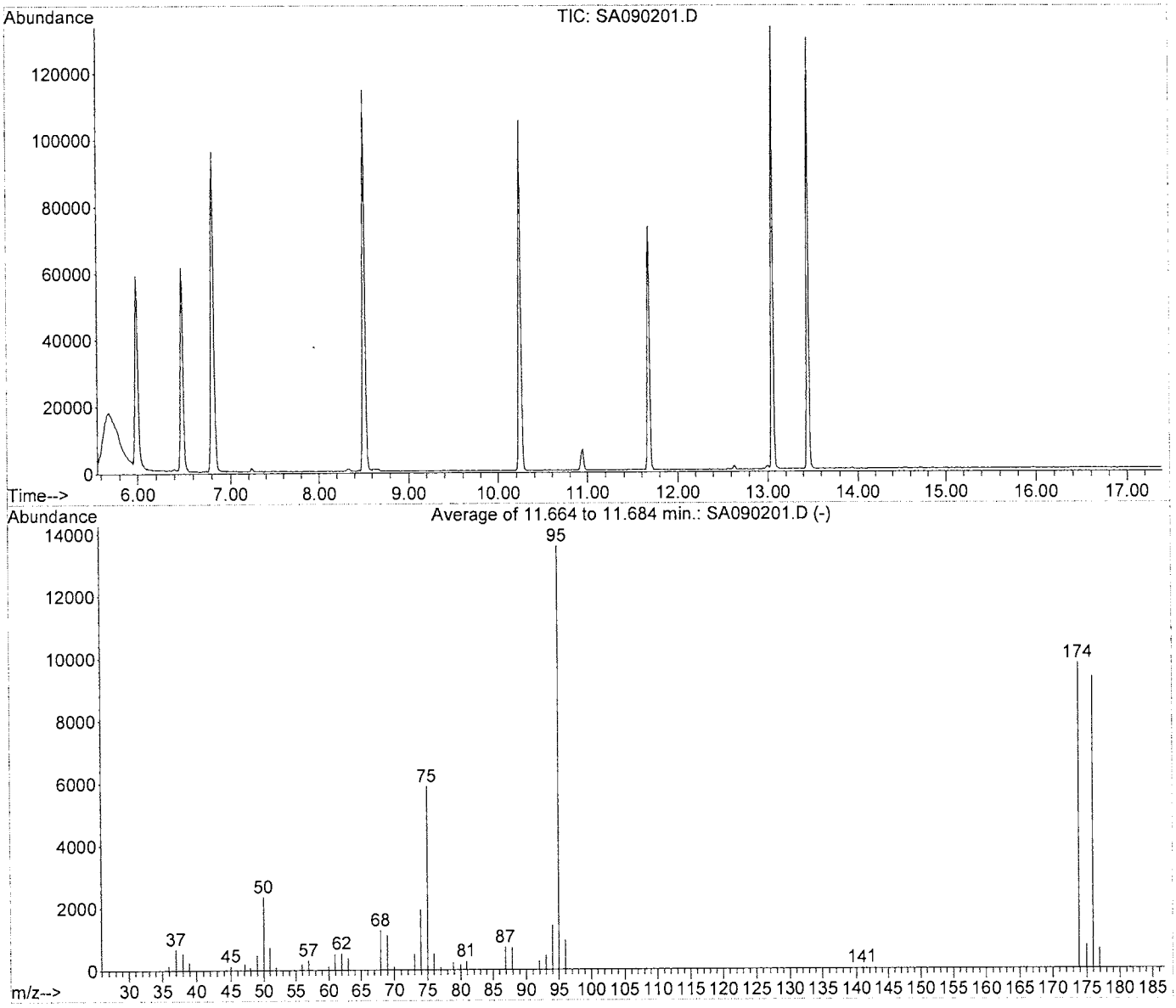
Daily Calibration File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D

				116039
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA090202.D	STD5	102	90	116039
SA090203.D	LCS5	100	84	122559
SA090204.D	LCSD5	104	87	118295
SA090205.D	113653.07M	88	89	113825
SA090206.D	113653.07M	100	84	120299
SA090207.D	BLANK	105	93	115955
SA090208.D	113653.20	90	88	119423
SA090209.D	113653.21	94	93	113175
SA090210.D	113653.14	89	84	118126
SA090211.D	113653.15	87	82	116221
SA090212.D	113653.16	109	92	112361
SA090213.D	113653.18	91	89	117406
SA090214.D	113653.17	100	85	116812
SA090215.D	113653.01	96	96	118177

t - fails 12hr time check * - fails criteria

Created: Mon Sep 10 10:08:56 2012 VOAMS2

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090201.D Vial: 1
Acq On : 2 Sep 2012 6:03 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.664 to 11.684 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	2354	PASS
75	95	30	60	43.3	5888	PASS
95	95	100	100	100.0	13589	PASS
96	95	5	9	6.9	939	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.0	9786	PASS
175	174	5	9	7.6	747	PASS
176	174	95	101	95.5	9350	PASS
177	176	5	9	7.0	655	PASS

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:09:57 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

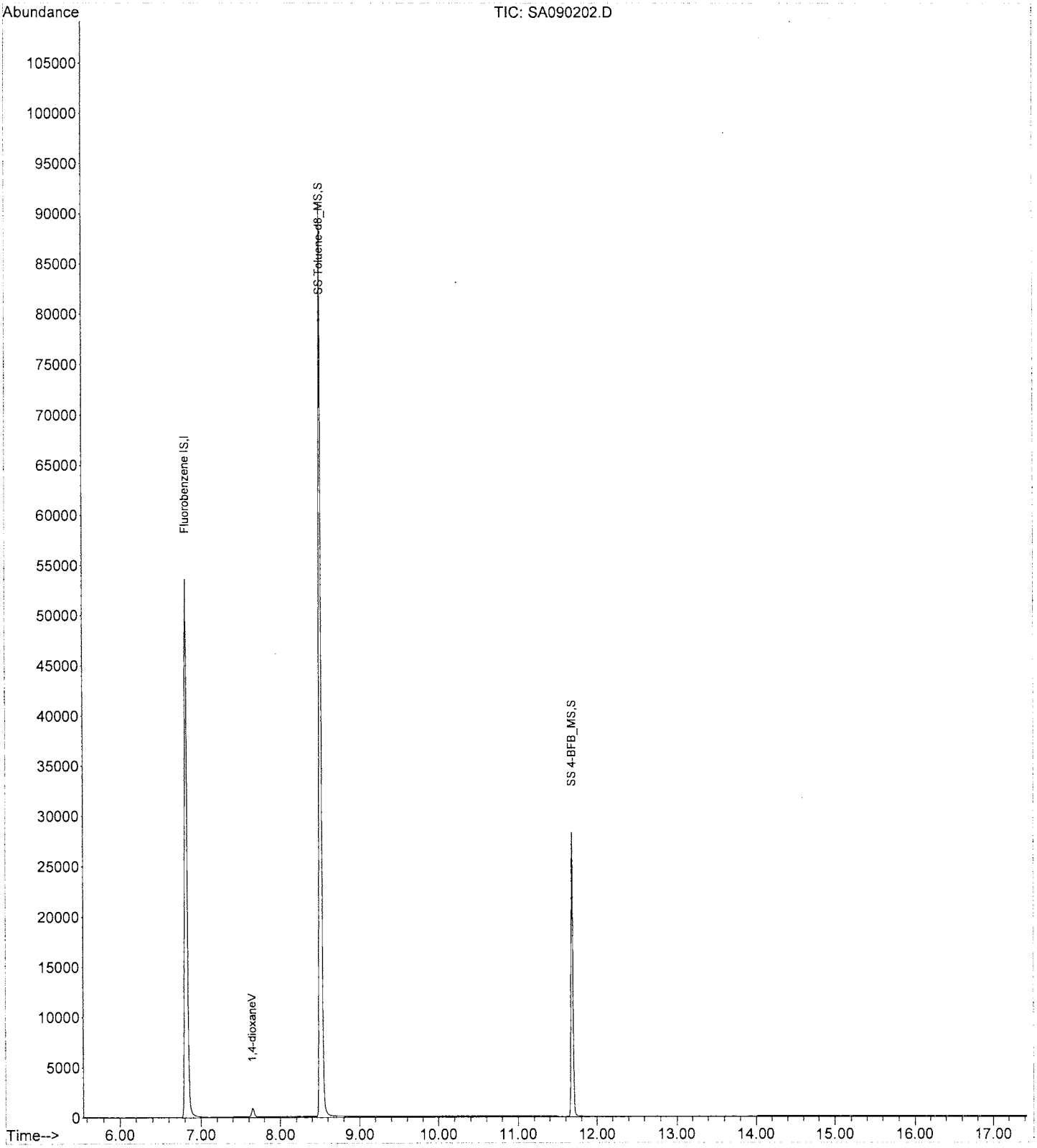
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	116039	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	118293	10.21	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.08%			
4) SS 4-BFB_MS	11.68	95	46996	9.04	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.39%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1268	5.118	ug/L	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:09 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090203.D Vial: 3
Acq On : 2 Sep 2012 7:44 pm Operator: VG
Sample : LCSaA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:10:17 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

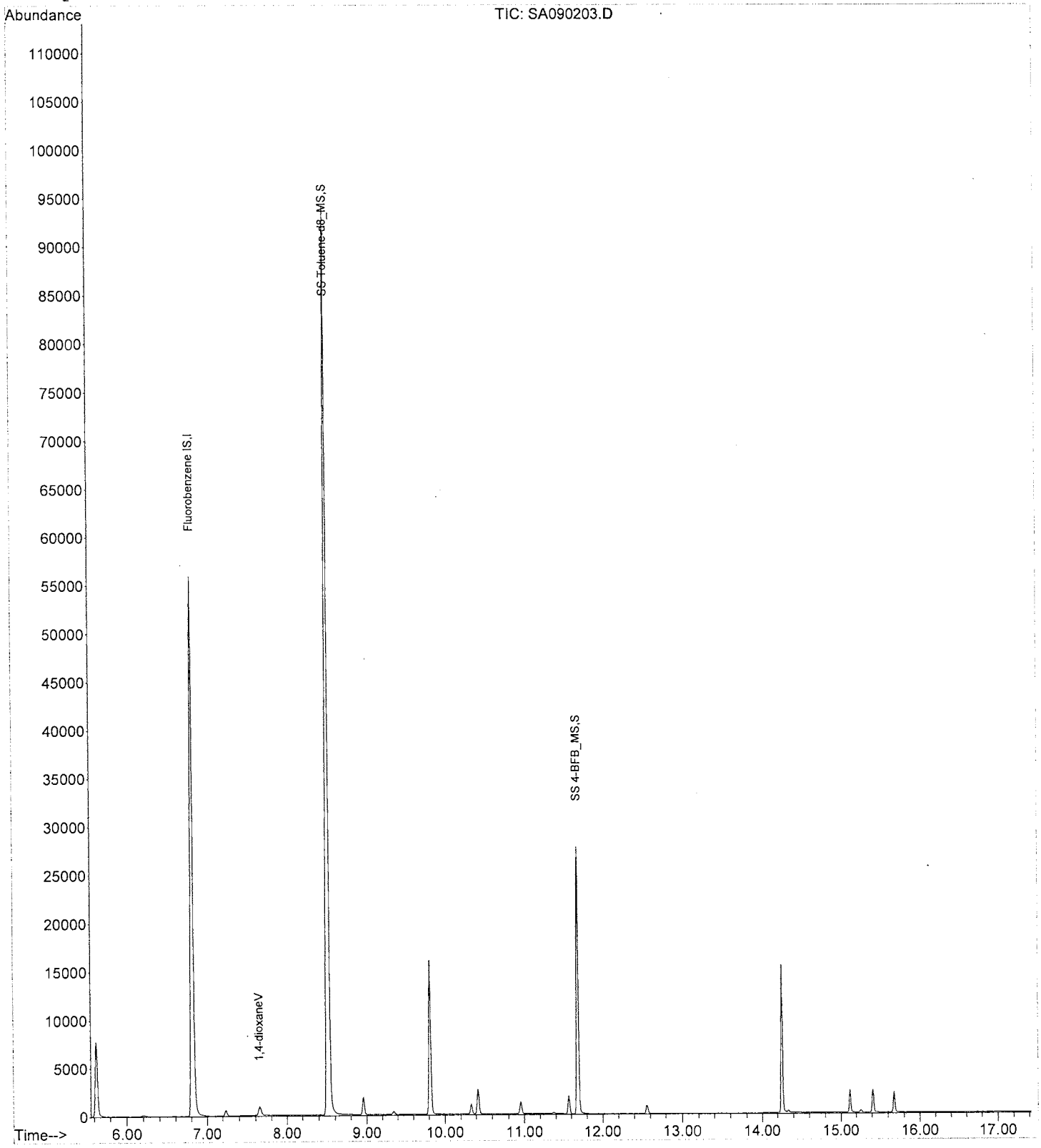
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	122559	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.52	98	122862	10.04	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%			
4) SS 4-BFB_MS	11.68	95	46357	8.44	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.42%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1247	4.766	ug/L	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090203.D Vial: 3
Acq On : 2 Sep 2012 7:44 pm Operator: VG
Sample : LCSaA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:09 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090204.D Vial: 4
Acq On : 2 Sep 2012 8:33 pm Operator: VG
Sample : LCSDA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:10:31 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

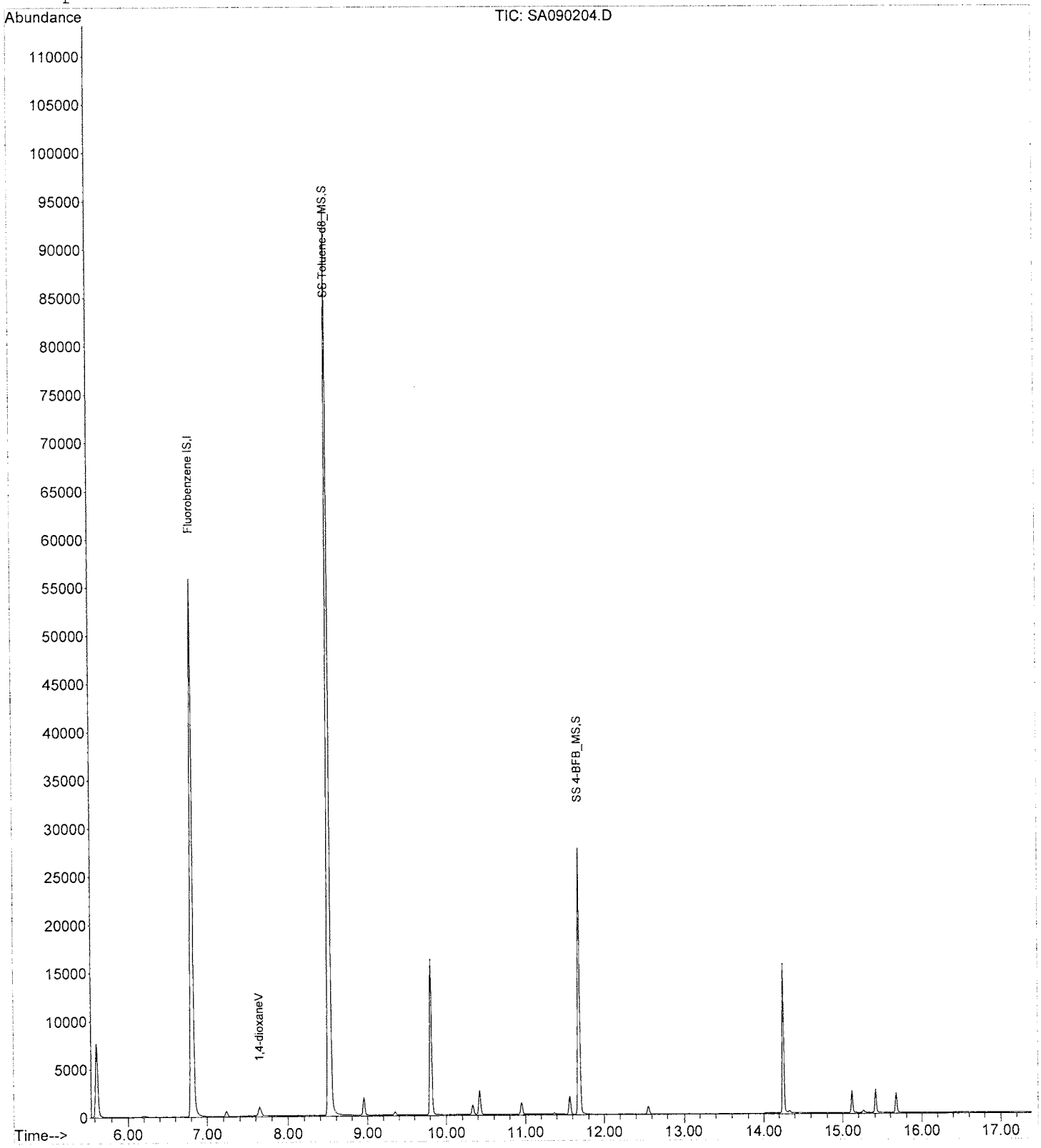
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	118295	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	122313	10.35	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.53%			
4) SS 4-BFB_MS	11.68	95	46102	8.70	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.98%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1285	5.088	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090204.D Vial: 4
Acq On : 2 Sep 2012 8:33 pm Operator: VG
Sample : LCSDA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:09 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090205.D Vial: 5
Acq On : 2 Sep 2012 9:24 pm Operator: VG
Sample : 113653.07MS Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:17 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	113825	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	100077	8.80	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.04%			
4) SS 4-BFB_MS	11.68	95	45644	8.95	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.50%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	2504m	10.304	ug/L	

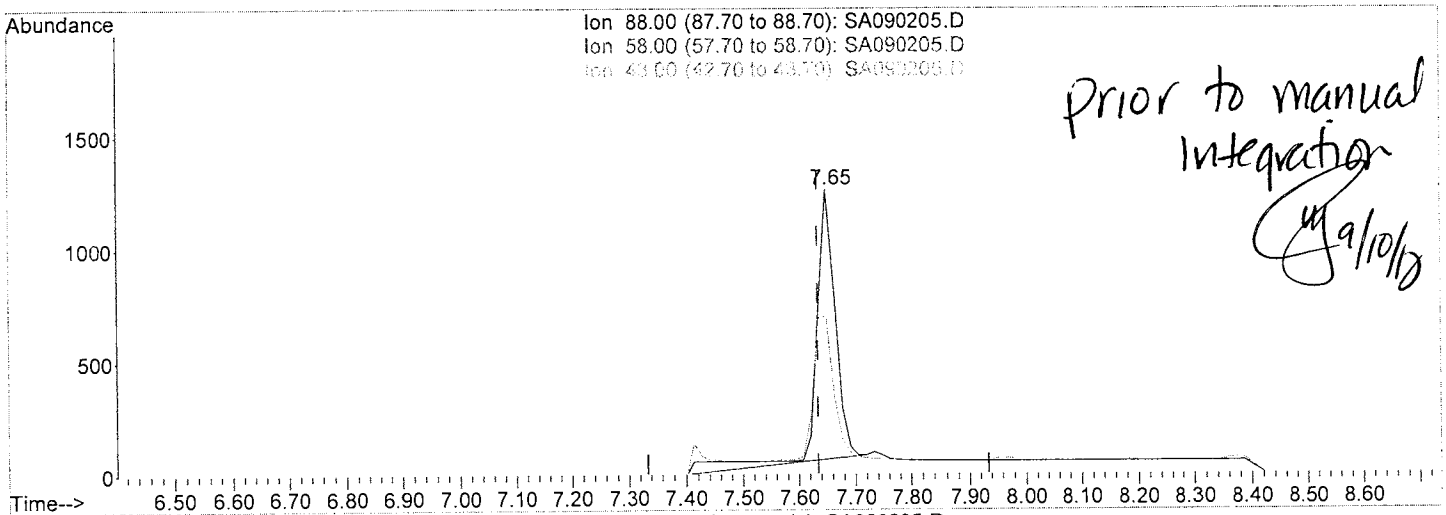
9/10/17

(#) = qualifier out of range (m) = manual integration (+) = signals summed

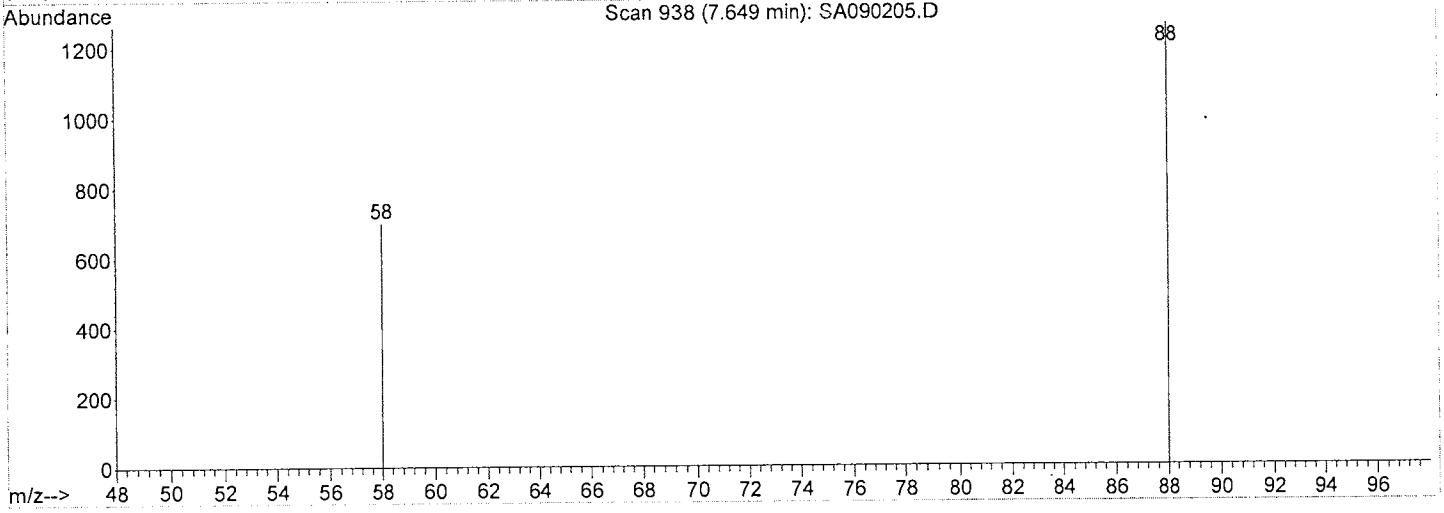
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090205.D Vial: 5
Acq On : 2 Sep 2012 9:24 pm Operator: VG
Sample : 113653.07MS Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



prior to manual integration
9/10/12



TIC: SA090205.D

(2) 1,4-dioxaneV

7.65min (+0.015) 11.72ug/L

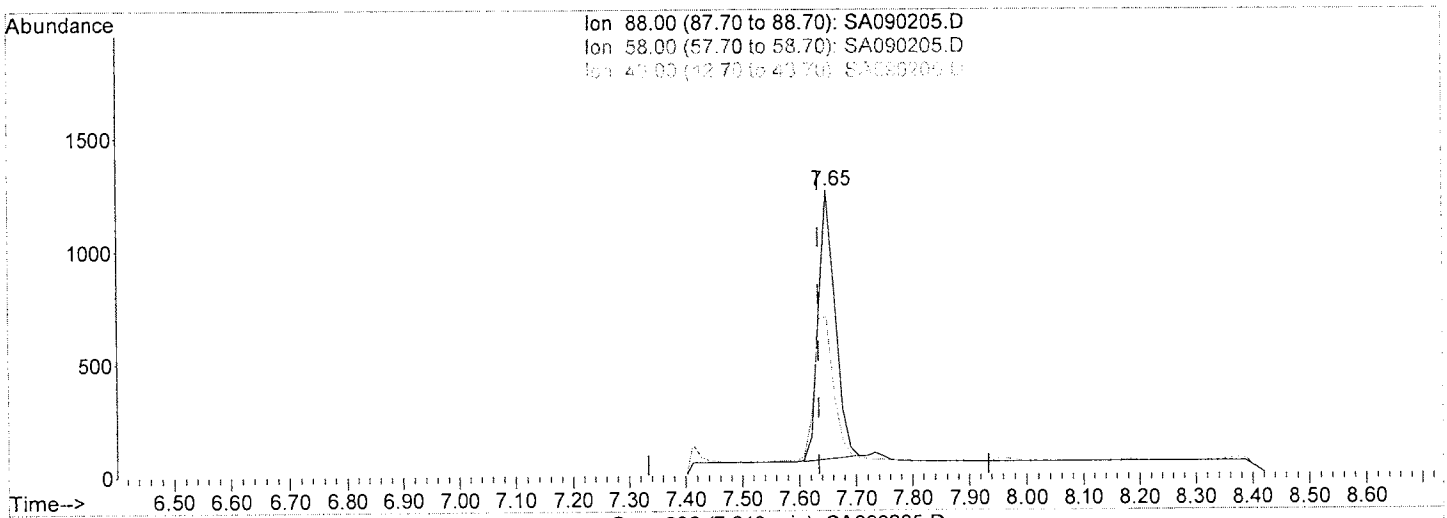
response 2848

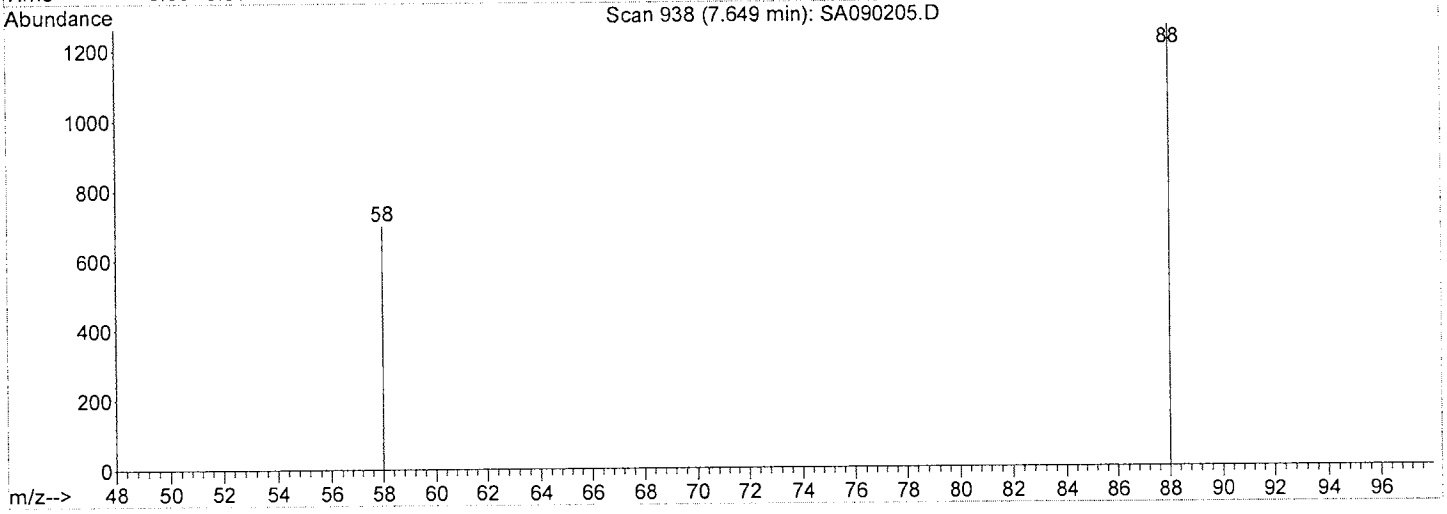
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	55.39
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090205.D Vial: 5
Acq On : 2 Sep 2012 9:24 pm Operator: VG
Sample : 113653.07MS Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:10 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090205.D

(2) 1,4-dioxaneV

7.65min (+0.015) 10.30ug/L m ✓ 9/10/12

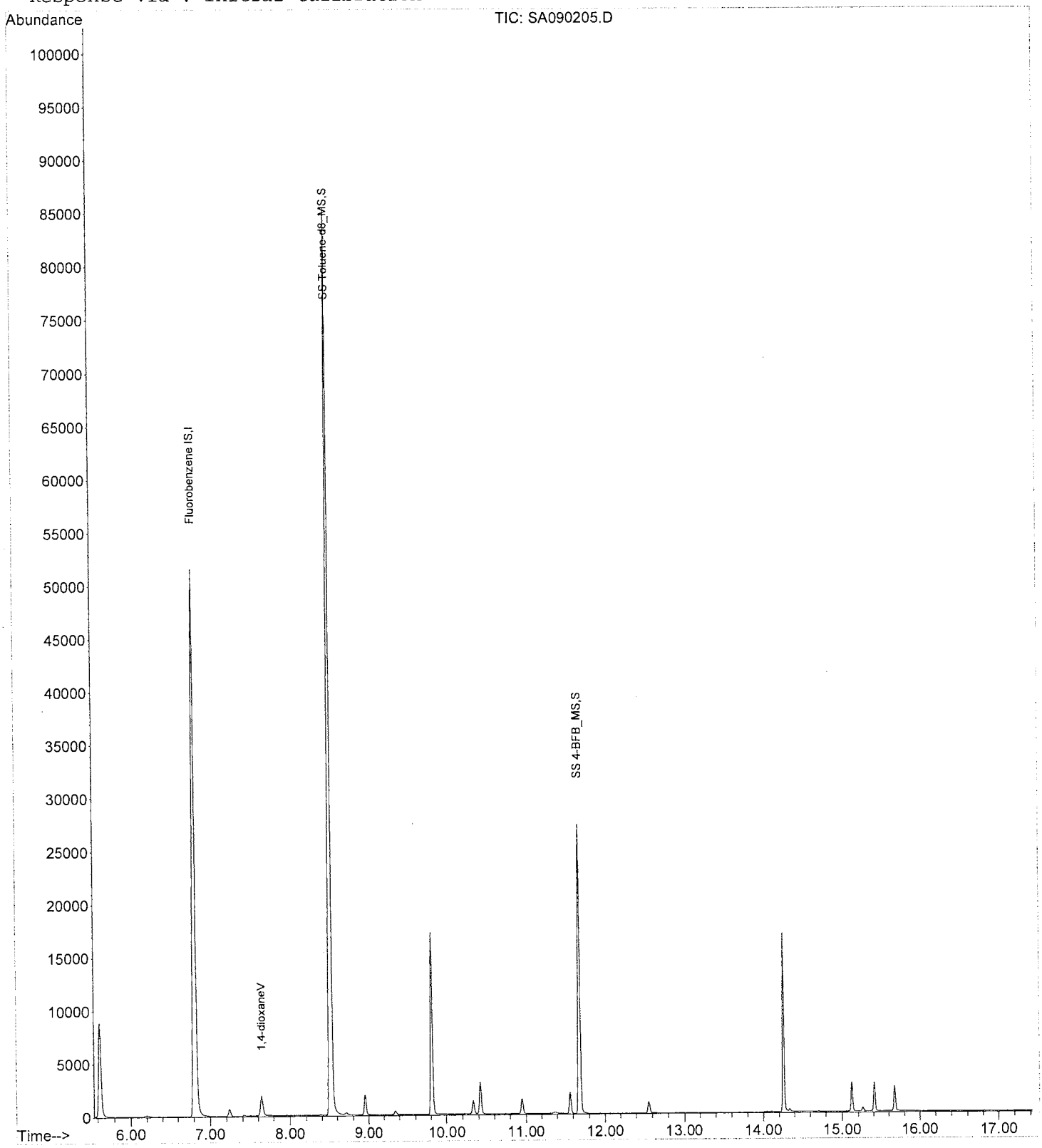
response 2504

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	55.39
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090205.D Vial: 5
Acq On : 2 Sep 2012 9:24 pm Operator: VG
Sample : 113653.07MS Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:10 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090206.D Vial: 6
Acq On : 2 Sep 2012 10:14 pm Operator: VG
Sample : 113653.07MSD Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:20 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	120299	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	120592	10.04	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%			
4) SS 4-BFB_MS	11.68	95	45530	8.45	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.47%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	2761	10.750	ug/L	95

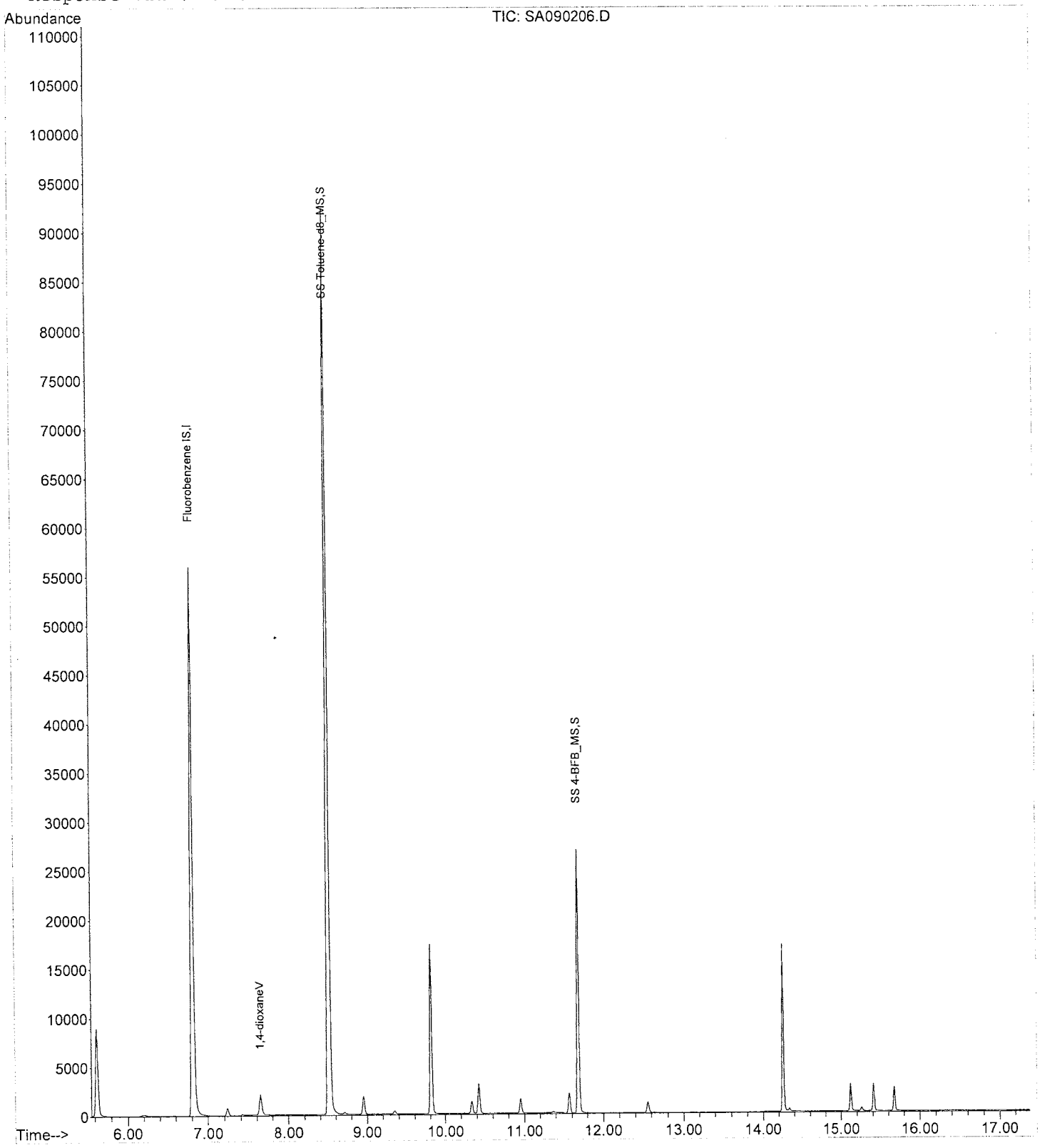
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090206.D 2SIM0524.M Mon Sep 10 10:07:20 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090206.D Vial: 6
Acq On : 2 Sep 2012 10:14 pm Operator: VG
Sample : 113653.07MSD Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090207.D Vial: 7
Acq On : 2 Sep 2012 11:04 pm Operator: VG
Sample : BlnkA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:11:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

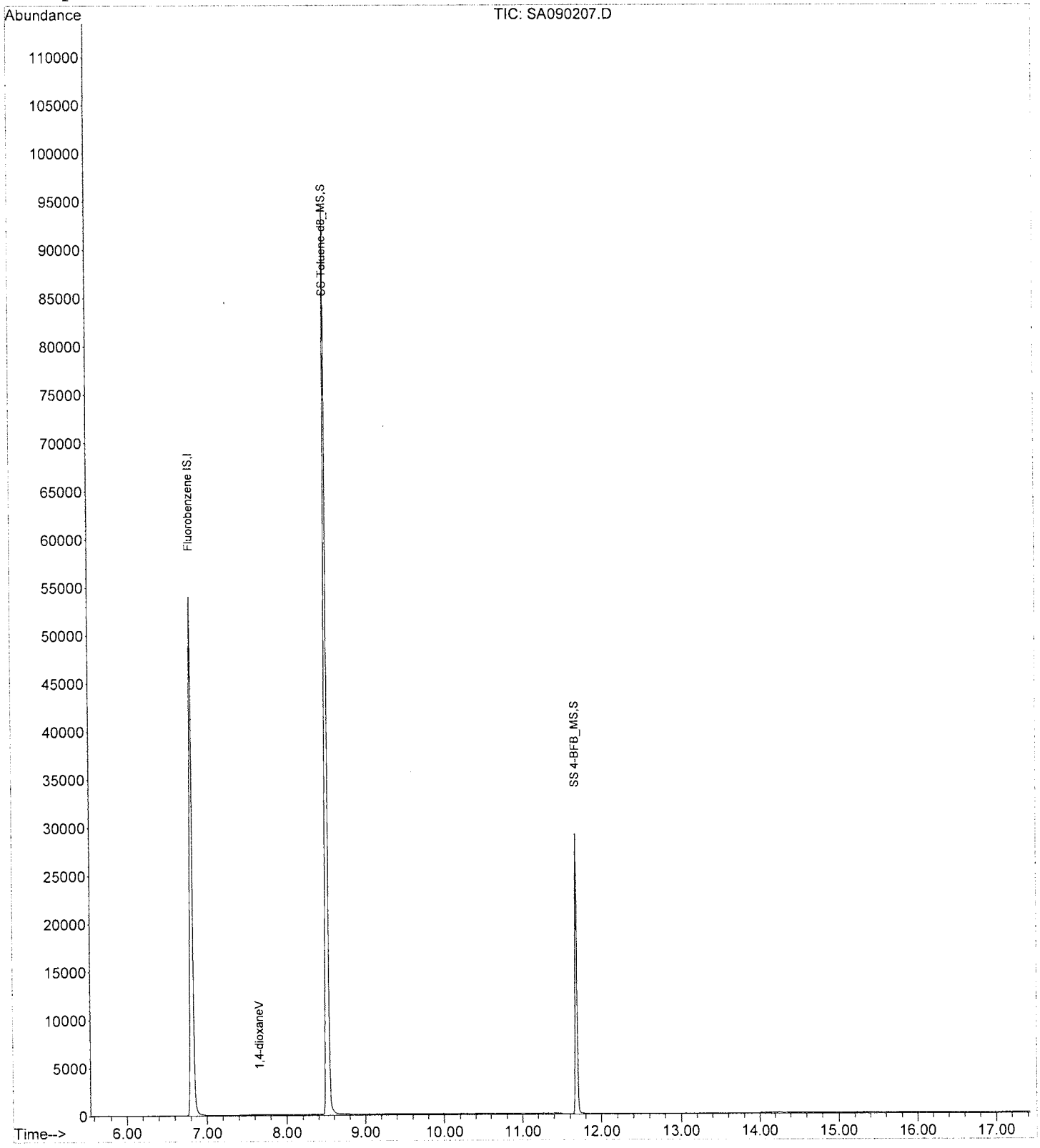
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.82	96	115955	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	122025	10.54	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.37%			
4) SS 4-BFB_MS	11.68	95	48078	9.25	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.54%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.66	88	27	0.109	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090207.D Vial: 7
Acq On : 2 Sep 2012 11:04 pm Operator: VG
Sample : BlnkA090212V82601 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:10 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090208.D Vial: 8
Acq On : 2 Sep 2012 11:54 pm Operator: VG
Sample : 113653.20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:23 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	119423	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	107588	9.02	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.21%			
4) SS 4-BFB_MS	11.68	95	47190	8.82	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.19%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.49	88	8	0.031	ug/L #	27

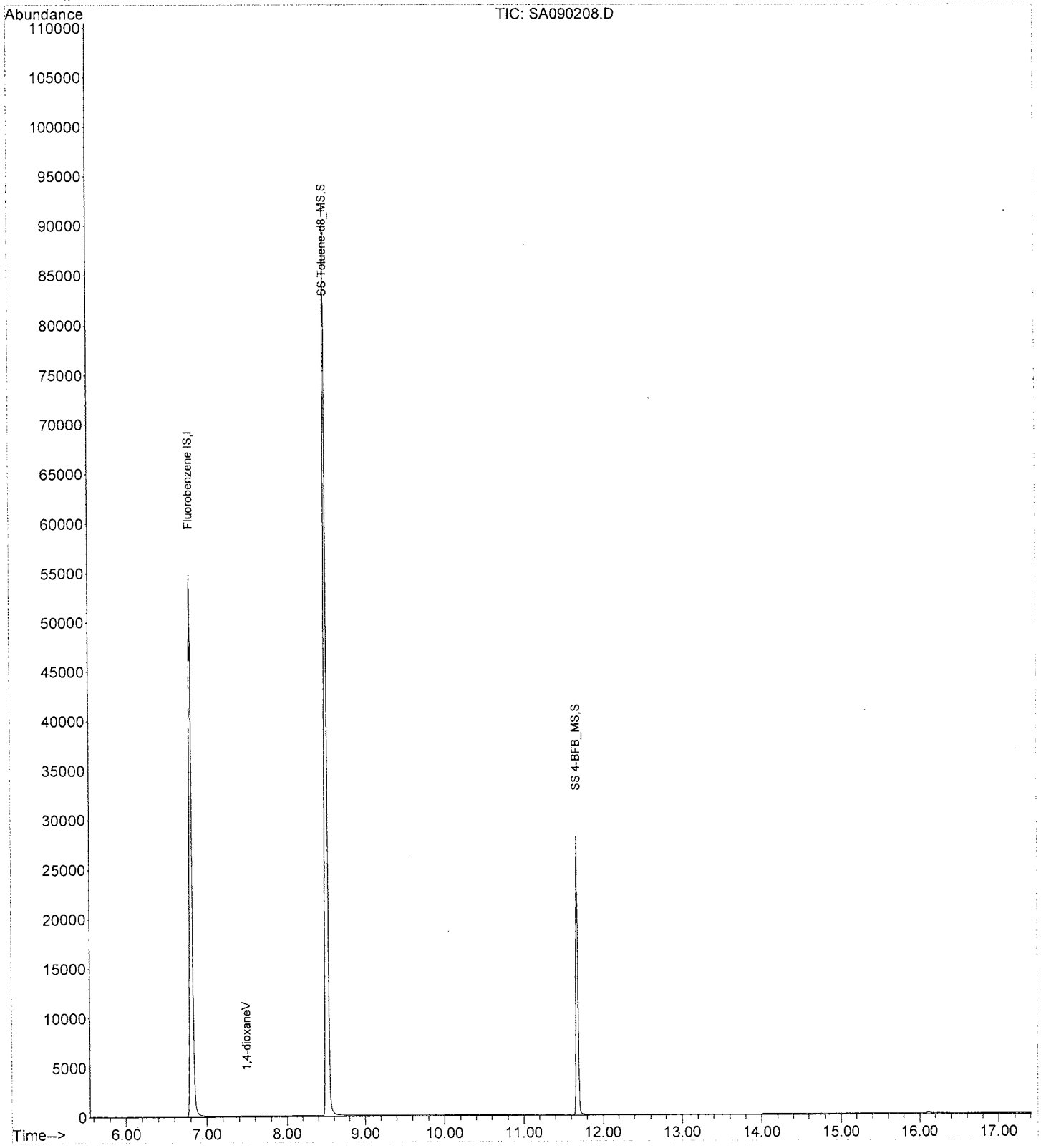
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090208.D 2SIM0524.M Mon Sep 10 10:07:23 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090208.D Vial: 8
Acq On : 2 Sep 2012 11:54 pm Operator: VG
Sample : 113653.20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090209.D Vial: 9
Acq On : 3 Sep 2012 12:44 am Operator: VG
Sample : 113653.21 22 typo Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:26 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards			R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS			6.81	96	113175	10.000	ug/L	0.01
System Monitoring Compounds								
3) SS Toluene-d8_MS			8.51	98	106754	9.45	ug/L	0.01
Spiked Amount	10.000	Range 70 - 130			Recovery =	94.45%		
4) SS 4-BFB_MS			11.68	95	47171	9.30	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130			Recovery =	93.02%		

Target Compounds Qvalue

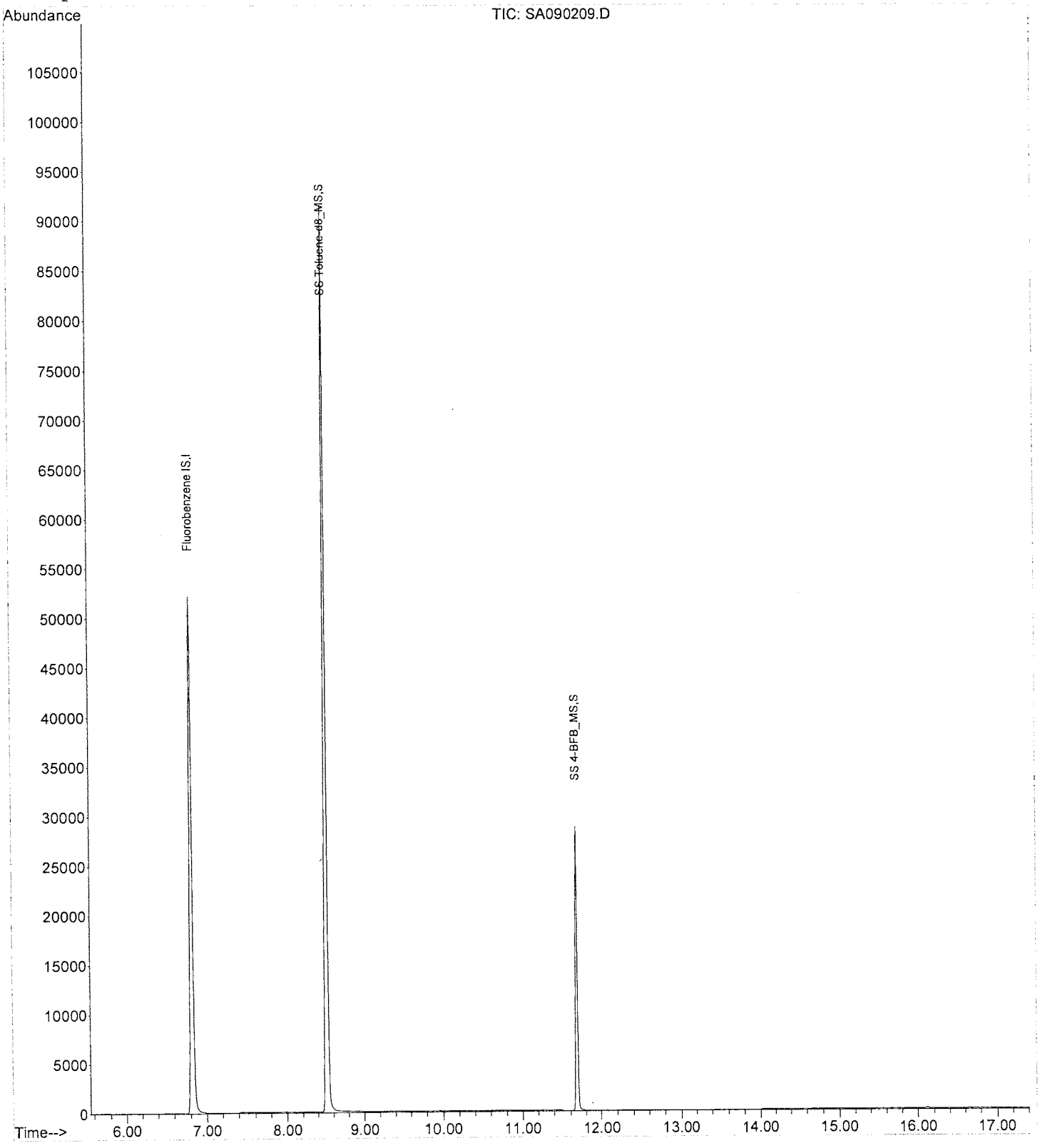
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090209.D 2SIM0524.M Mon Sep 10 11:18:56 2012

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090209.D Vial: 9
Acq On : 3 Sep 2012 12:44 am Operator: VG
Sample : 113653.21 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090210.D Vial: 10
Acq On : 3 Sep 2012 1:34 am Operator: VG
Sample : 113653.14 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:29 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	118126	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	104893	8.89	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.91%			
4) SS 4-BFB_MS	11.68	95	44685	8.44	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.43%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	636	2.522	ug/L	90

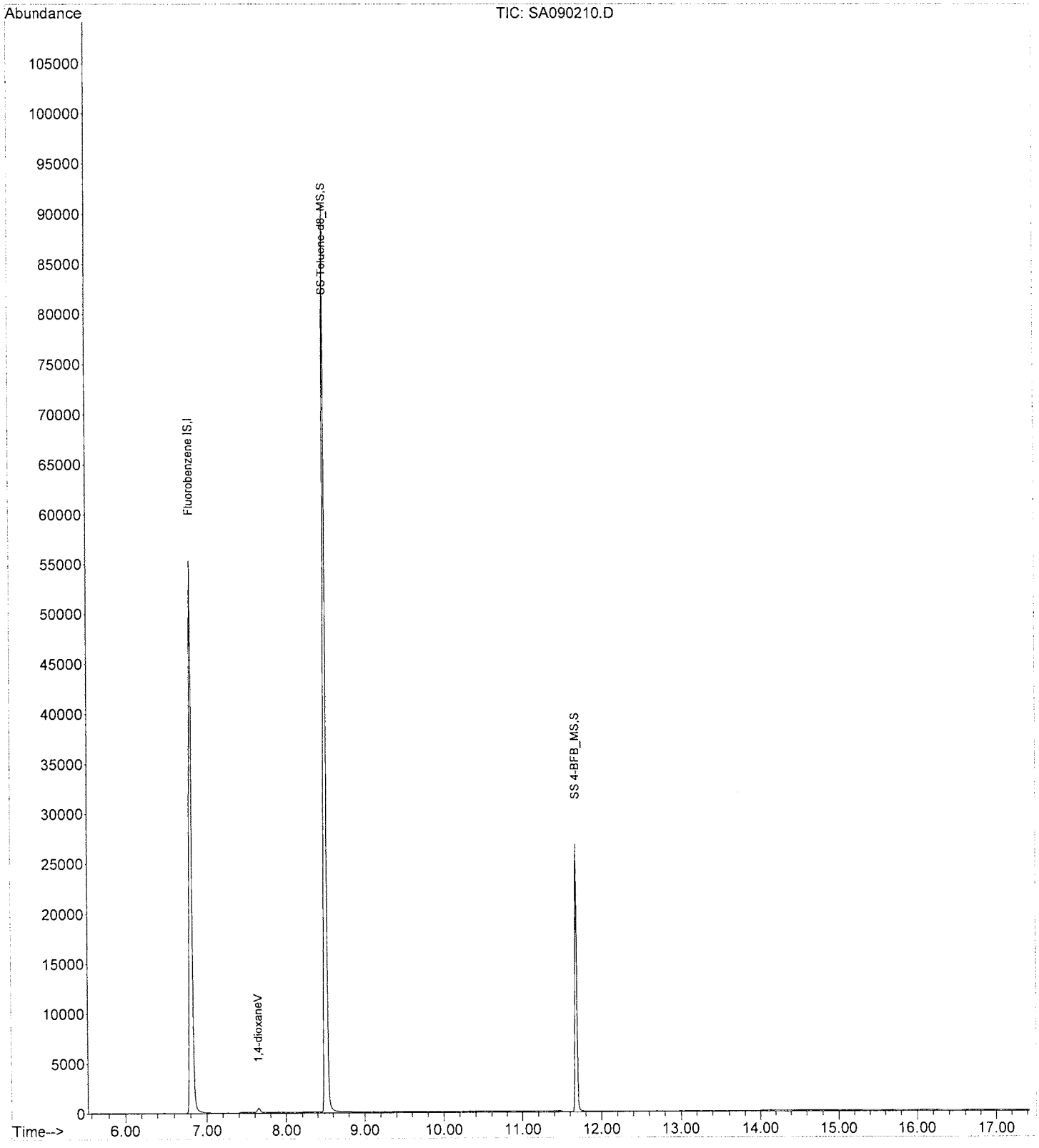
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090210.D Vial: 10
Acq On : 3 Sep 2012 1:34 am Operator: VG
Sample : 113653.14 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090211.D Vial: 11
Acq On : 3 Sep 2012 2:24 am Operator: VG
Sample : 113653.15 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:32 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	116221	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	101459	8.74	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.41%			
4) SS 4-BFB_MS	11.68	95	42602	8.18	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.81%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1324	5.336	ug/L	96

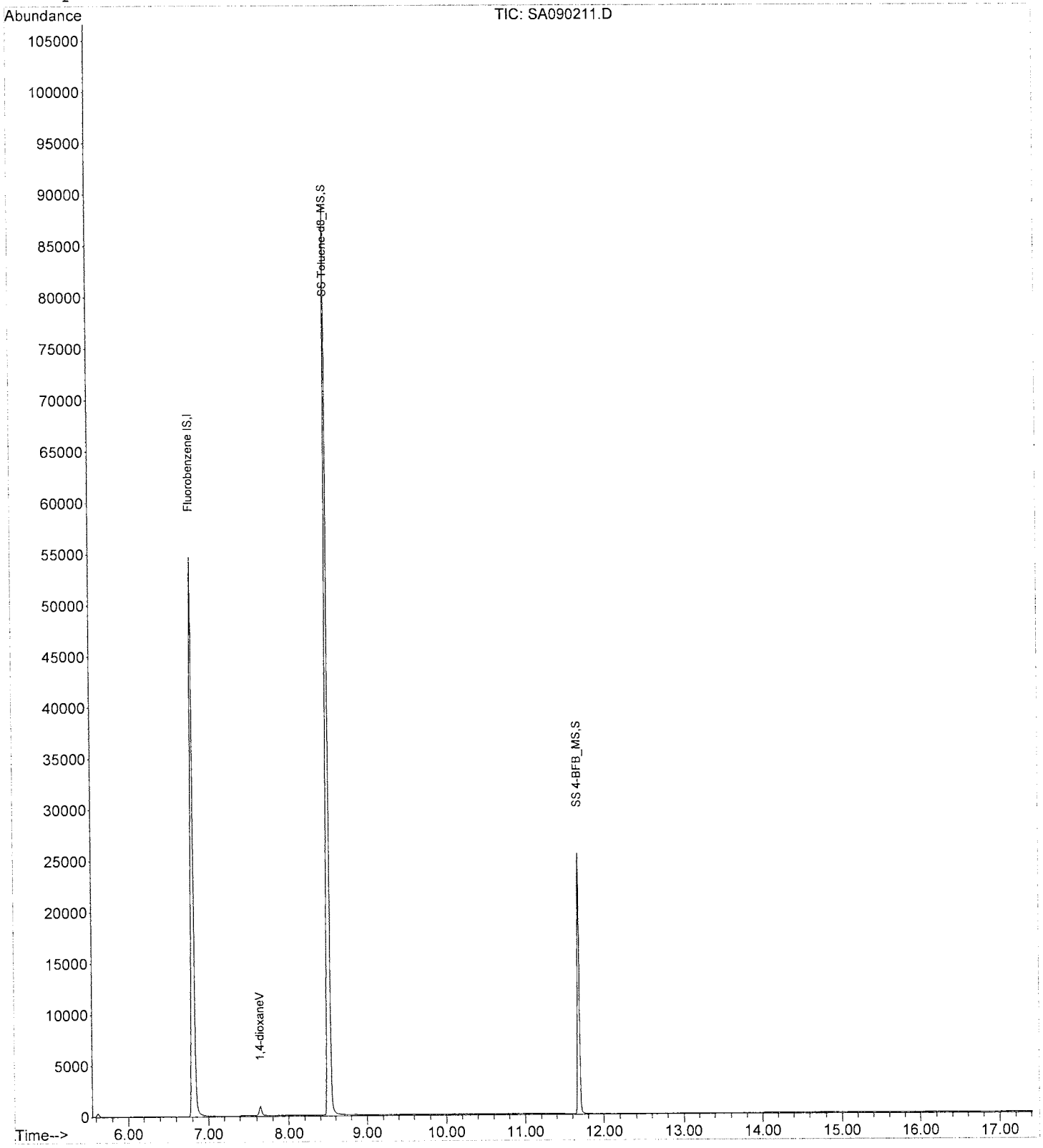
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090211.D 2SIM0524.M Mon Sep 10 10:07:32 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090211.D Vial: 11
Acq On : 3 Sep 2012 2:24 am Operator: VG
Sample : 113653.15 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090212.D Vial: 12
Acq On : 3 Sep 2012 3:14 am Operator: VG
Sample : 113653.16 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:35 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	112361	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	122604	10.93	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.26%			
4) SS 4-BFB_MS	11.68	95	46518	9.24	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.40%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	747	3.114	ug/L	91

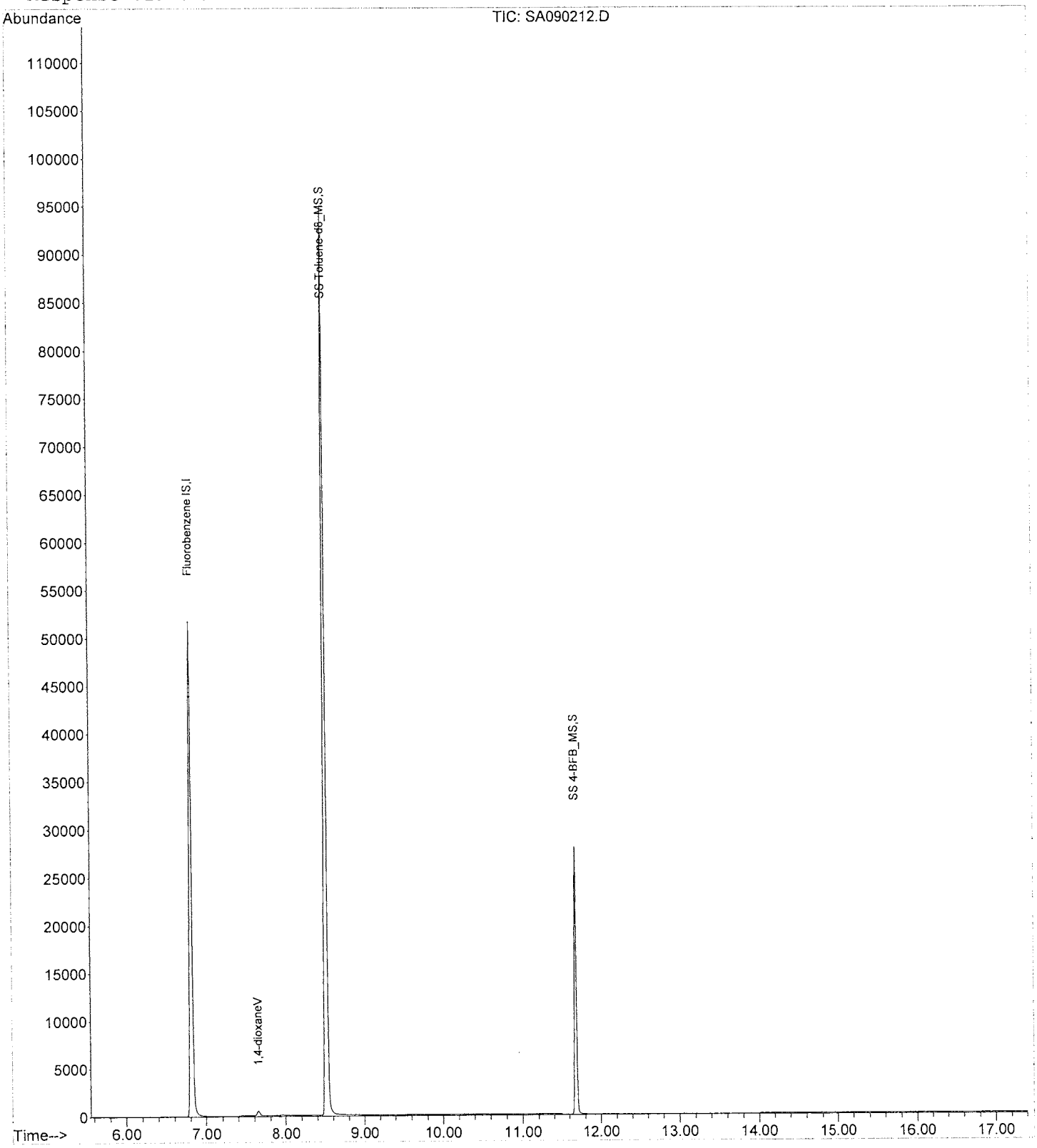
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090212.D 2SIM0524.M Mon Sep 10 10:07:35 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090212.D Vial: 12
Acq On : 3 Sep 2012 3:14 am Operator: VG
Sample : 113653.16 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090213.D Vial: 13
Acq On : 3 Sep 2012 4:04 am Operator: VG
Sample : 113653.18 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:38 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	117406	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	106207	9.06	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.58%			
4) SS 4-BFB_MS	11.68	95	46565	8.85	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.52%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	710m	2.833	ug/L	

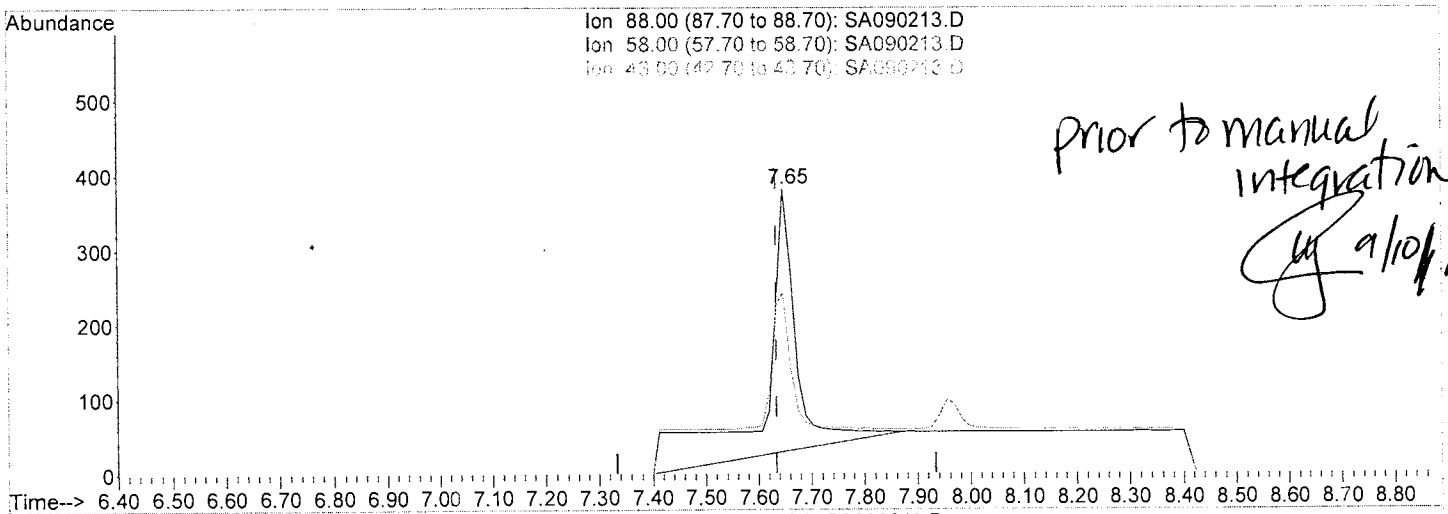
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090213.D 2SIM0524.M Mon Sep 10 11:19:07 2012

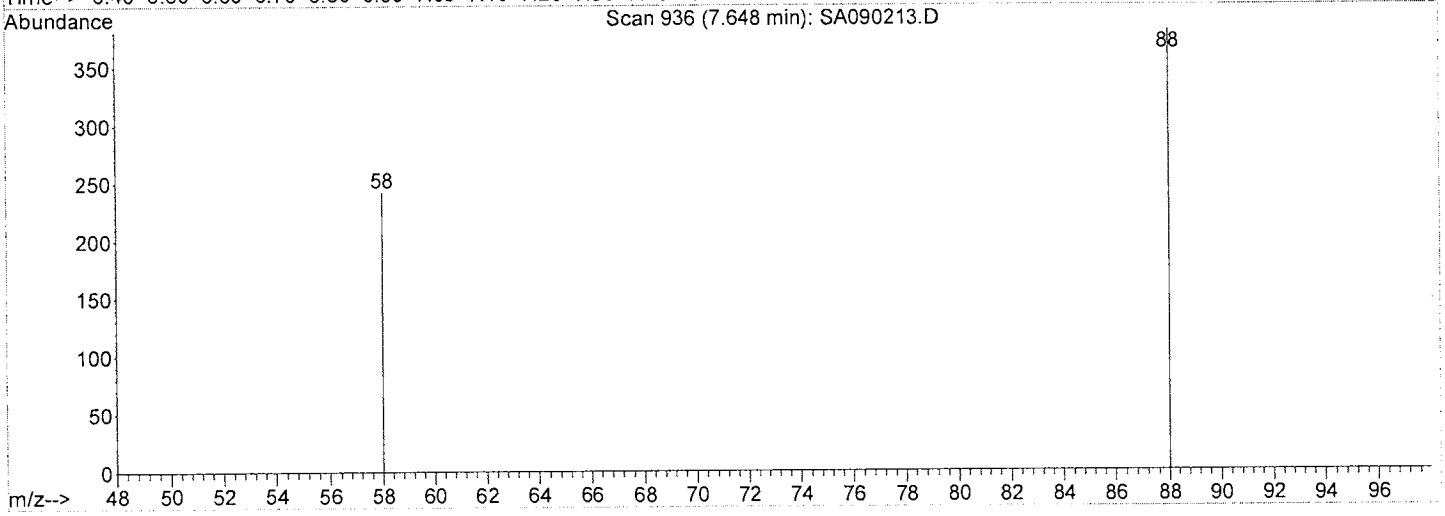
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090213.D Vial: 13
Acq On : 3 Sep 2012 4:04 am Operator: VG
Sample : 113653.18 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



prior to manual integration 9/10/12



TIC: SA090213.D

(2) 1,4-dioxaneV

7.65min (+0.013) 6.00ug/L

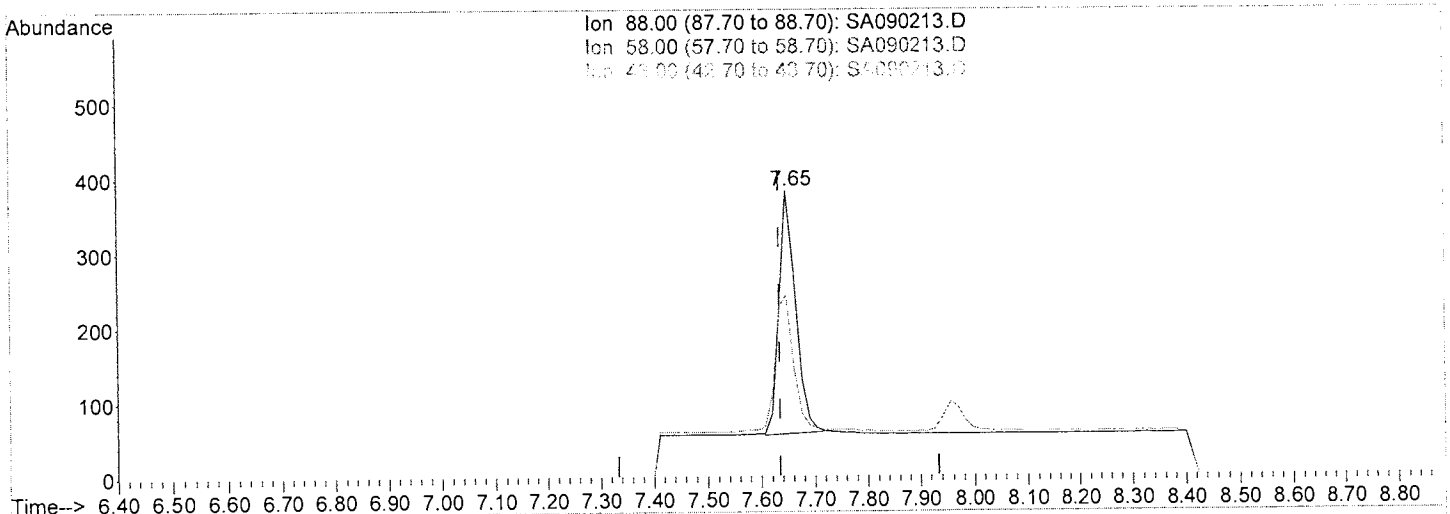
response 1505

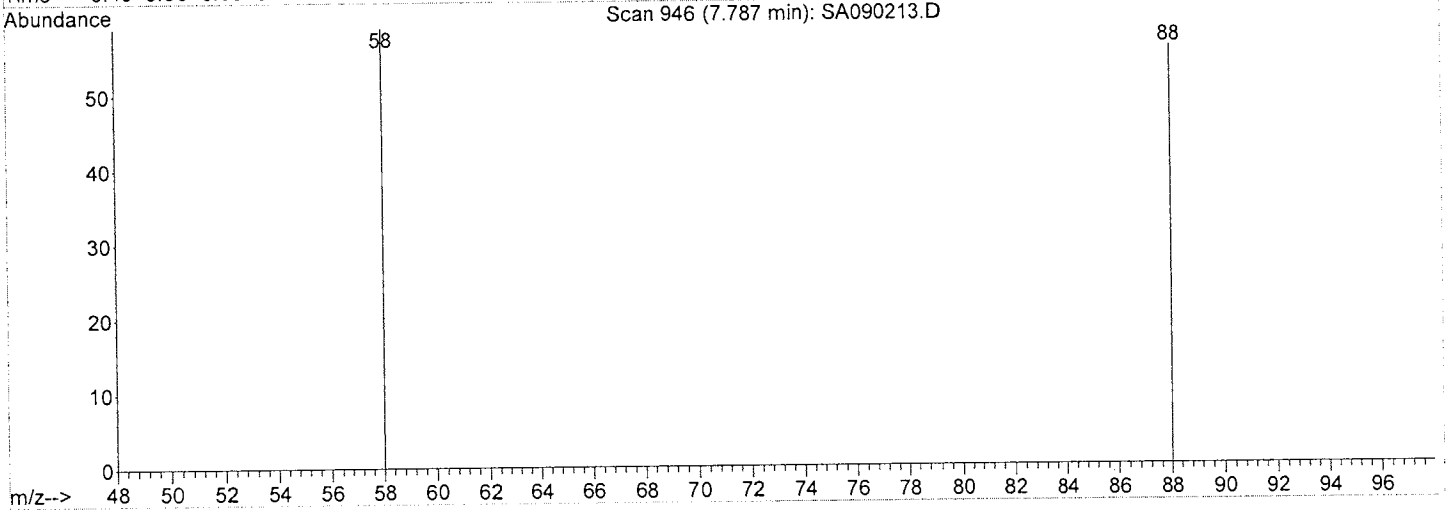
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	63.52
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090213.D Vial: 13
Acq On : 3 Sep 2012 4:04 am Operator: VG
Sample : 113653.18 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:12 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090213.D

(2) 1,4-dioxaneV

7.65min (+0.013) 2.83ug/L m

response 710

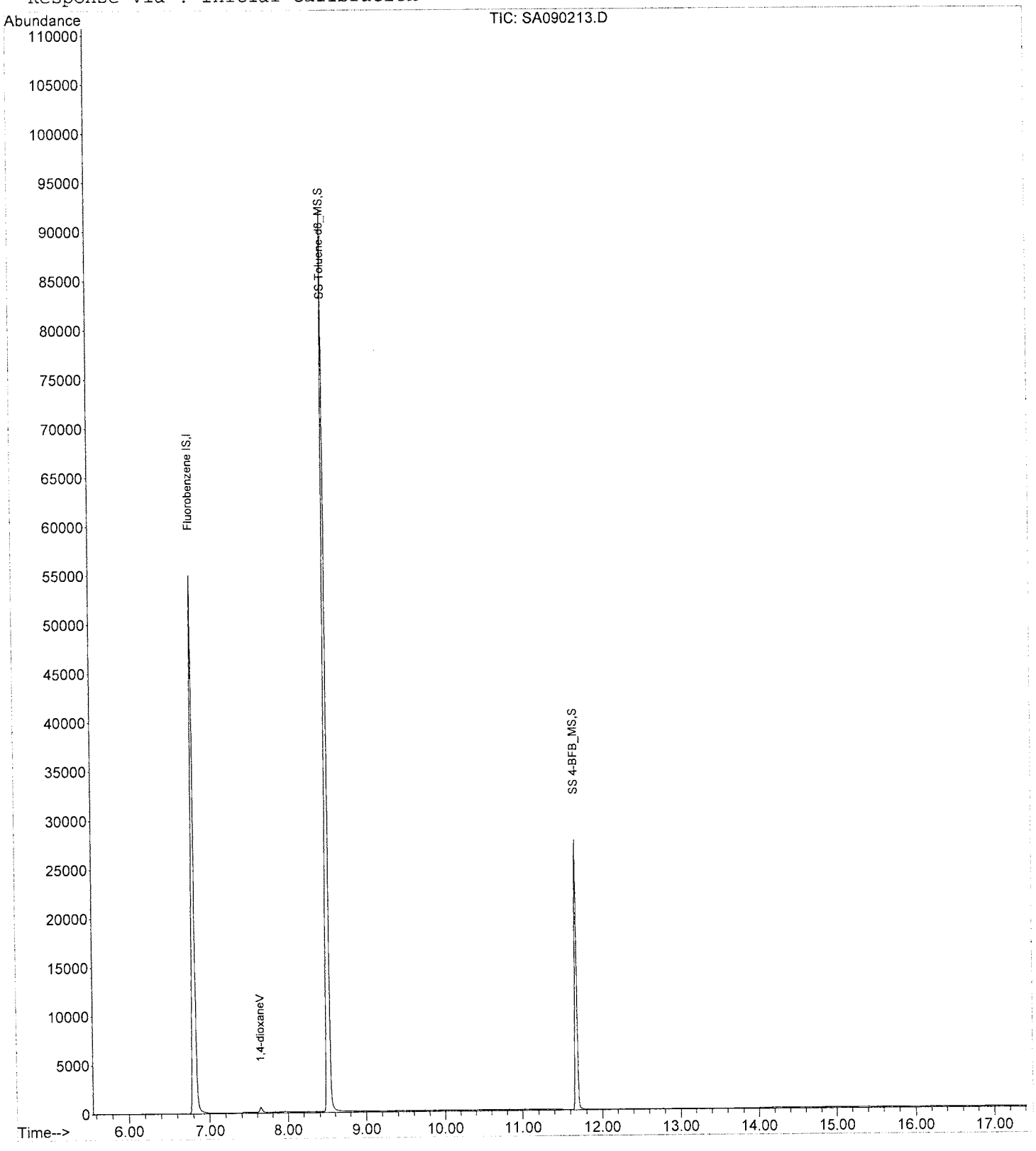
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	63.52
43.00	0.00	0.00
0.00	0.00	0.00

9/10/12

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090213.D Vial: 13
Acq On : 3 Sep 2012 4:04 am Operator: VG
Sample : 113653.18 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:12 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090214.D Vial: 14
Acq On : 3 Sep 2012 4:54 am Operator: VG
Sample : 113653.17 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:41 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	116812	10.000	ug/L	0.01
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	116844	10.02	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.16%			
4) SS 4-BFB_MS	11.68	95	44577	8.52	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.17%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1142	4.579	ug/L	92

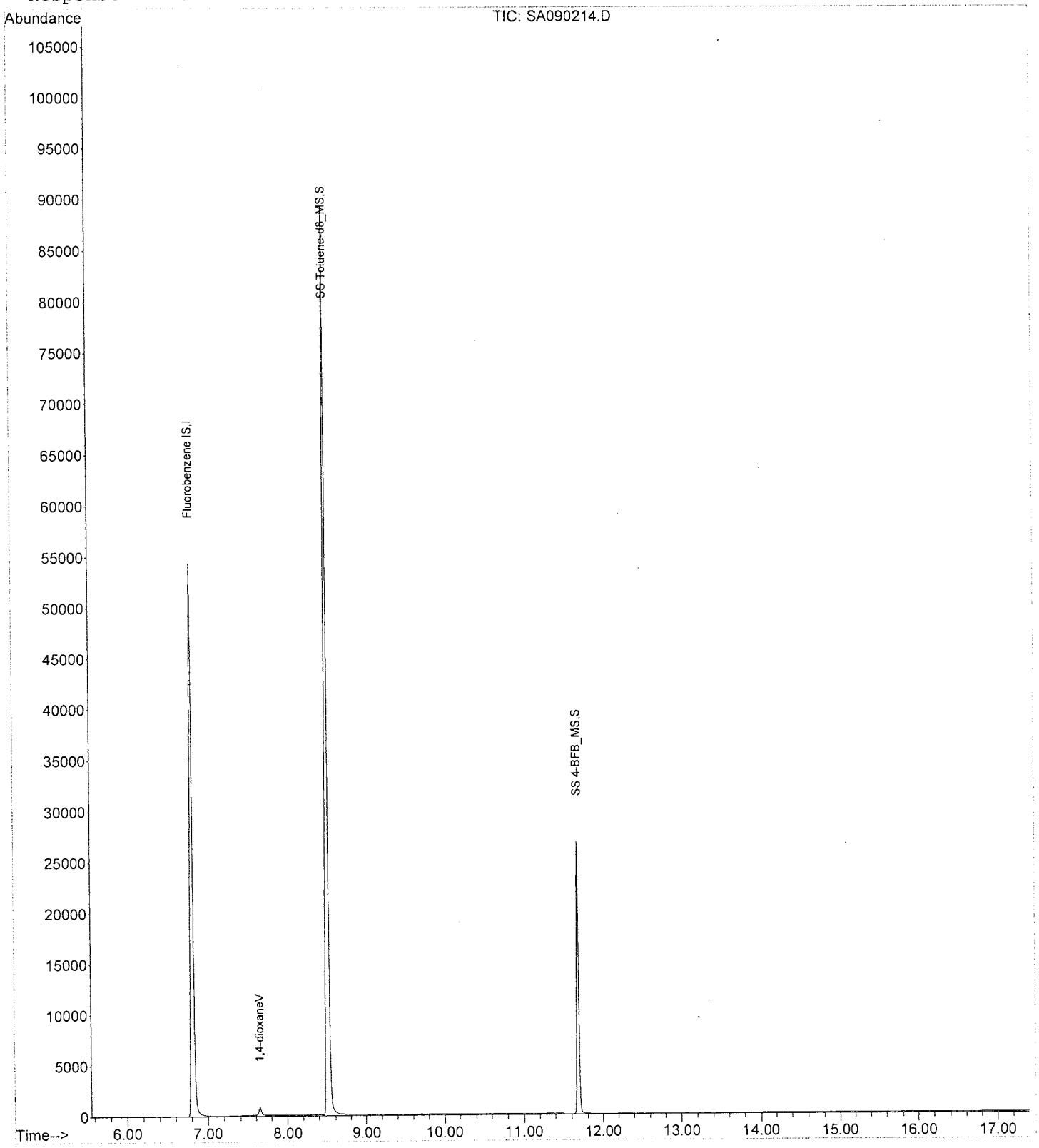
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090214.D 2SIM0524.M Mon Sep 10 10:07:41 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090214.D Vial: 14
Acq On : 3 Sep 2012 4:54 am Operator: VG
Sample : 113653.17 Inst : VOAMS2
Misc : X5;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090215.D Vial: 15
Acq On : 3 Sep 2012 5:43 am Operator: VG
Sample : 113653.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:44 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	118177	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	113123	9.58	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.85%			
4) SS 4-BFB_MS	11.68	95	50923	9.62	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.17%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	626m	2.481	ug/L	

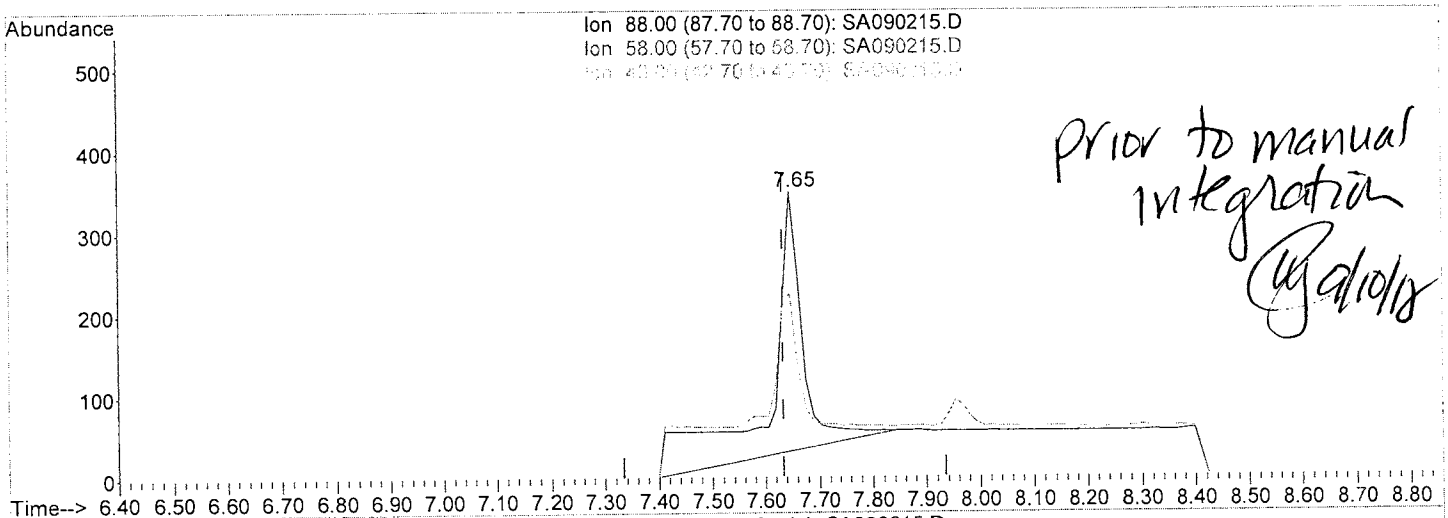
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

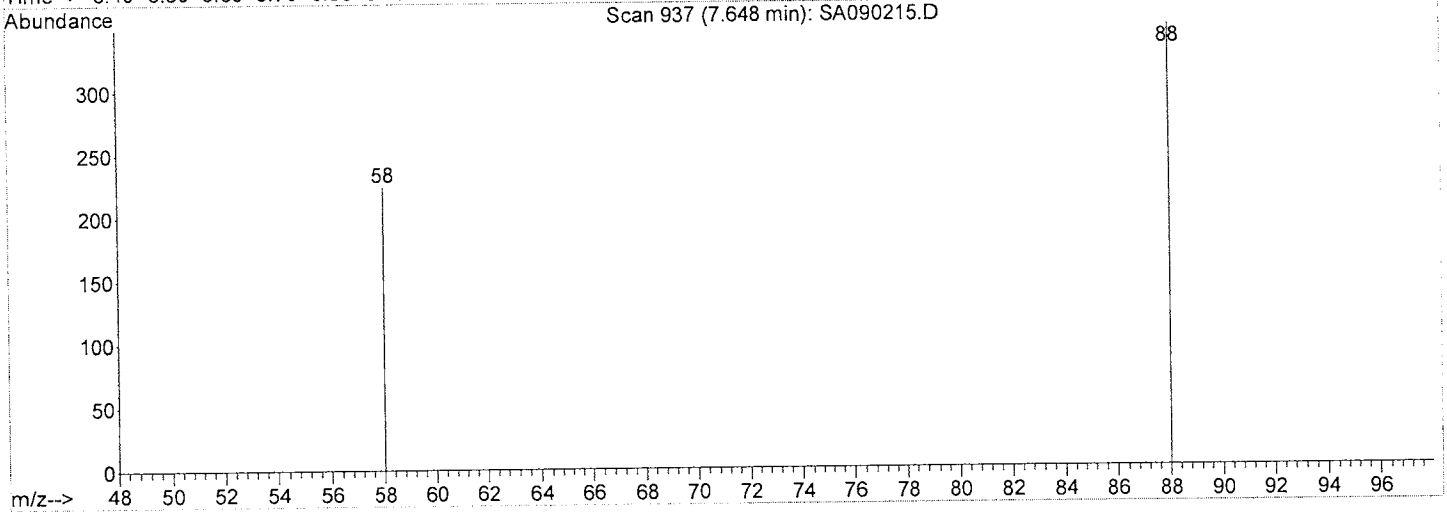
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090215.D Vial: 15
Acq On : 3 Sep 2012 5:43 am Operator: VG
Sample : 113653.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



prior to manual integration
9/10/12



TIC: SA090215.D

(2) 1,4-dioxaneV

7.65min (+0.013) 5.50ug/L

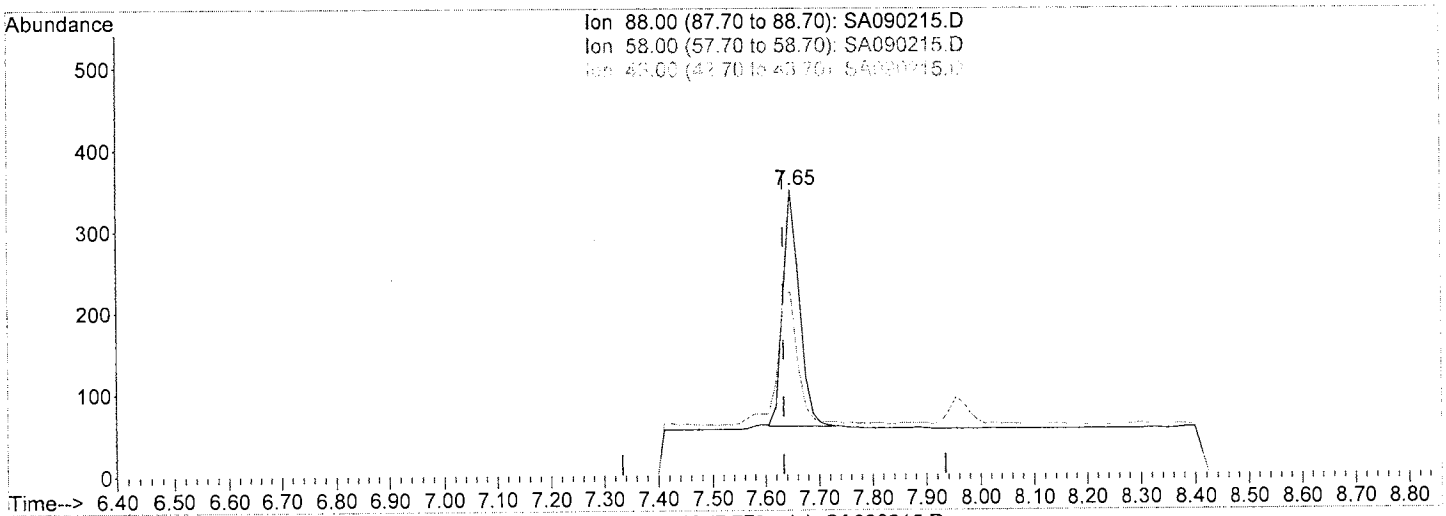
response 1388

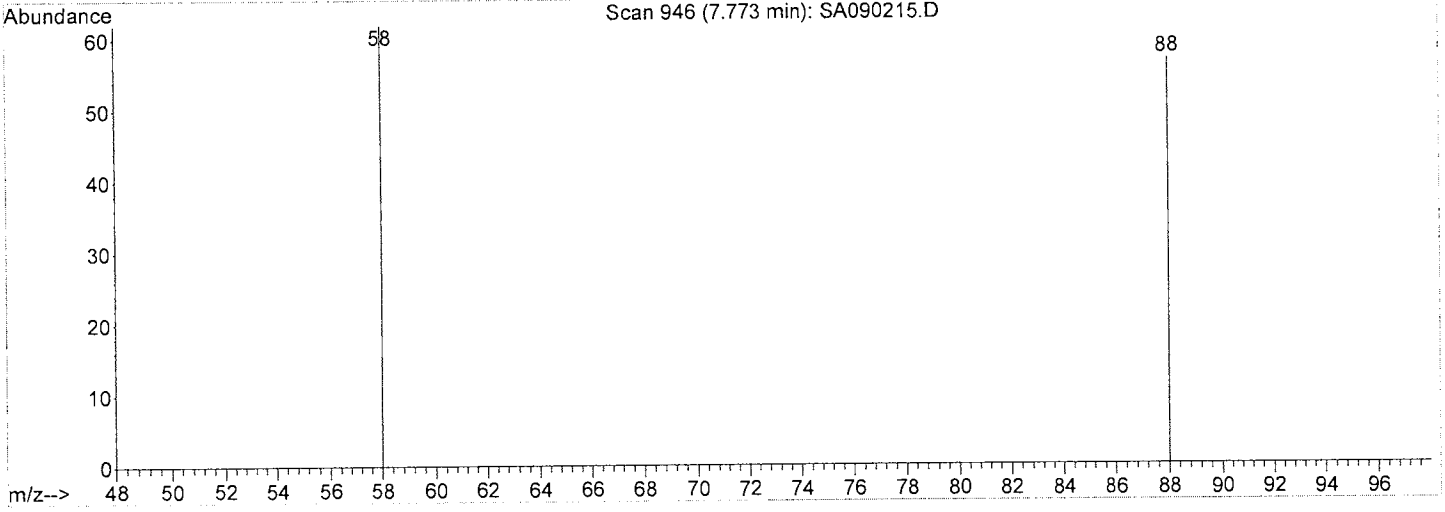
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	64.18
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090215.D Vial: 15
Acq On : 3 Sep 2012 5:43 am Operator: VG
Sample : 113653.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:13 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090215.D

(2) 1,4-dioxaneV

7.65min (+0.013) 2.48ug/L m

response 626

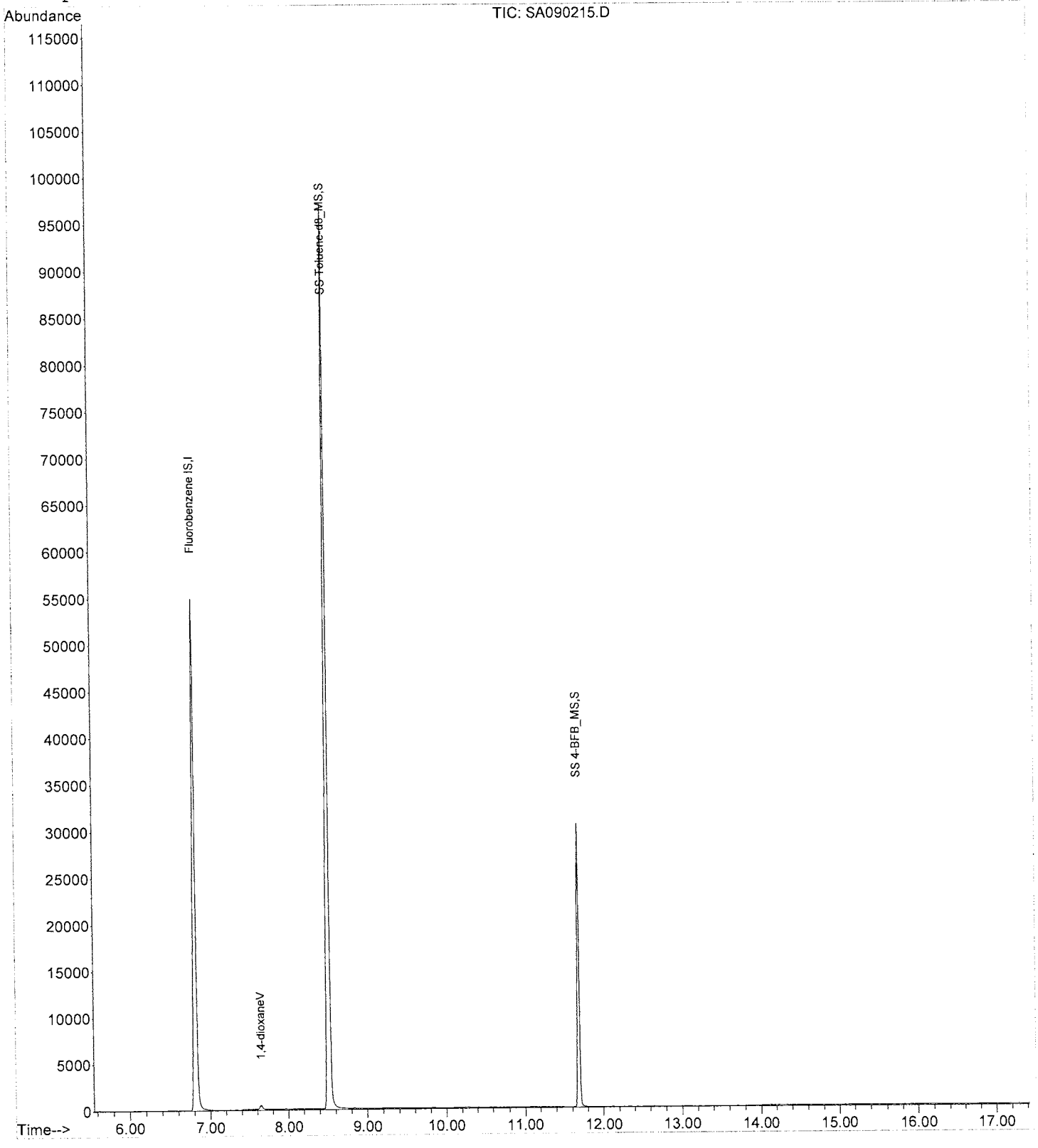
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	64.18
43.00	0.00	0.00
0.00	0.00	0.00

✓ 9/10/12

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090215.D Vial: 15
Acq On : 3 Sep 2012 5:43 am Operator: VG
Sample : 113653.01 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:13 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\SEP12\SEP0212\SA090217.D
Tune Time : 3 Sep 2012 7:23 am

Daily Calibration File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D

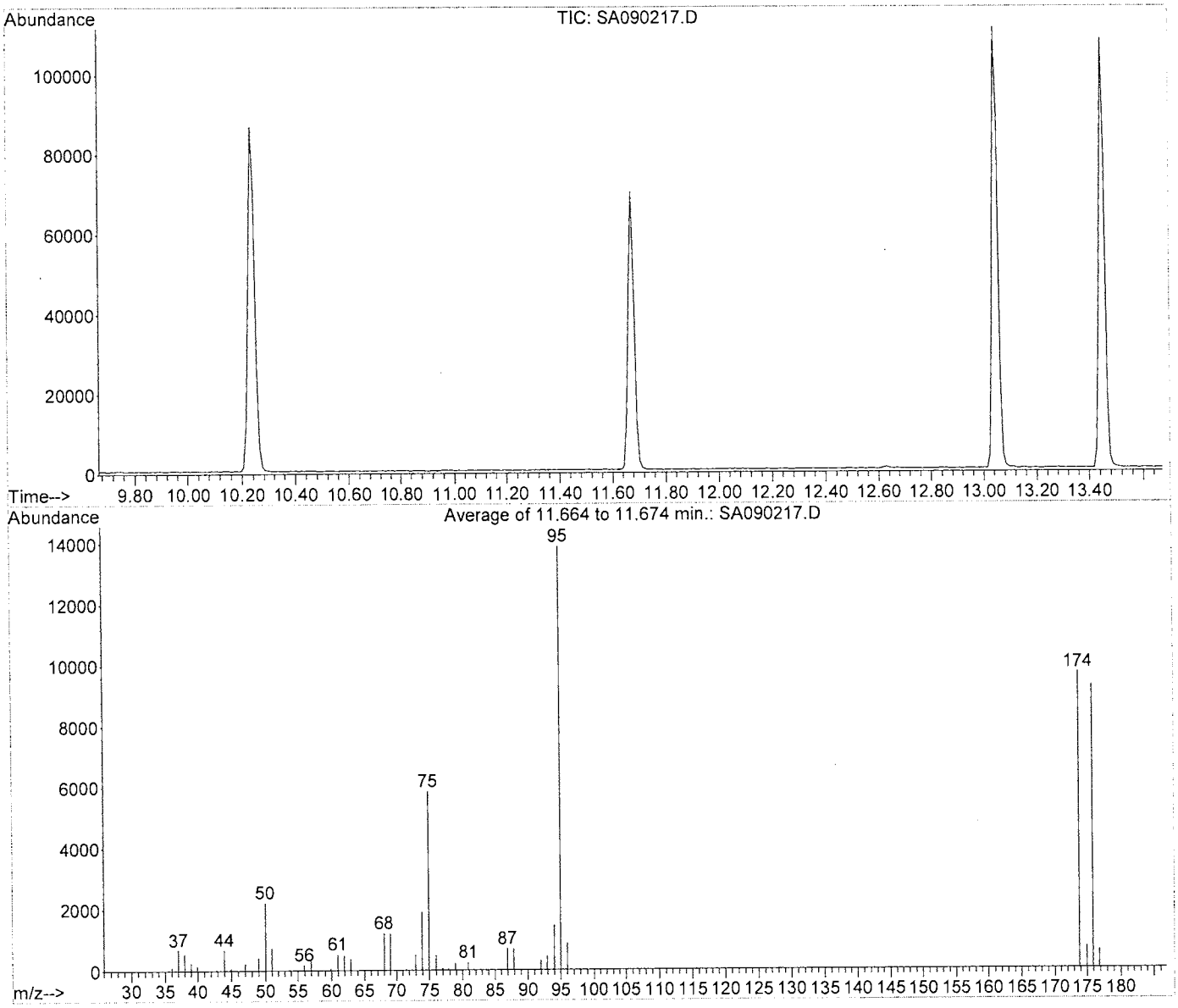
				116229
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA090218.D	STD5	81	82	116229
SA090219.D	LCS5	97	88	117617
SA090220.D	LCSD5	85	102	111416
SA090221.D	BLANK	98	103	108224
SA090222.D	113653.09	110	101	110528
SA090223.D	113653.10	108	81	114938
SA090224.D	113653.13	84	97	115209

t - fails 12hr time check * - fails criteria

Created: Mon Sep 10 10:10:18 2012 VOAMS2

BFB

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090217.D Vial: 17
Acq On : 3 Sep 2012 7:23 am Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.664 to 11.674 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	2219	PASS
75	95	30	60	42.2	5858	PASS
95	95	100	100	100.0	13888	PASS
96	95	5	9	6.3	875	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.8	9688	PASS
175	174	5	9	7.4	719	PASS
176	174	95	101	95.6	9264	PASS
177	176	5	9	6.5	599	PASS

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:12:38 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

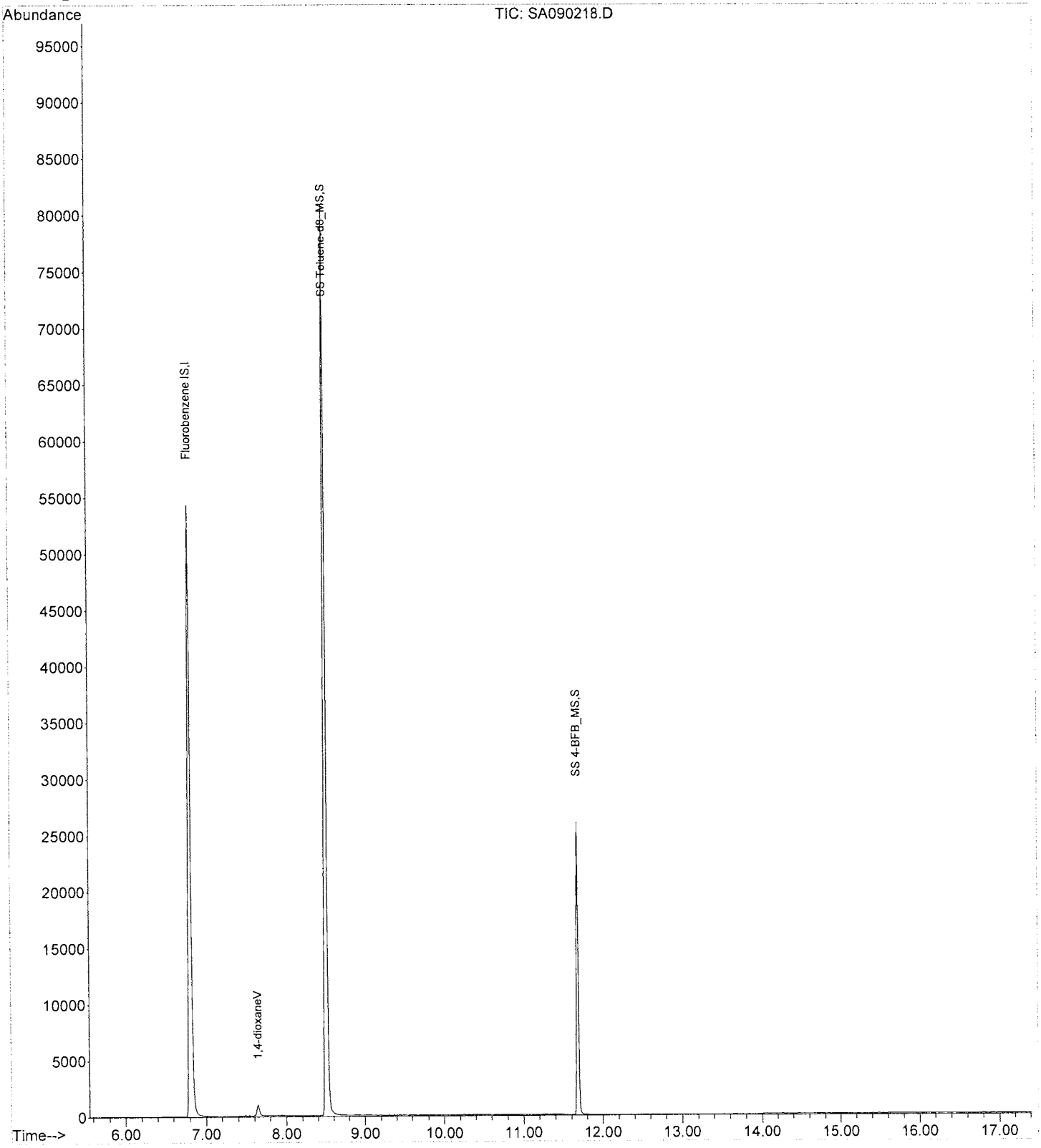
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	116229	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	94321	8.13	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.26%			
4) SS 4-BFB_MS	11.68	95	42847	8.23	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.28%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1465	5.904	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:11 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090219.D Vial: 19
Acq On : 3 Sep 2012 9:03 am Operator: VG
Sample : LCSaA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:13:07 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

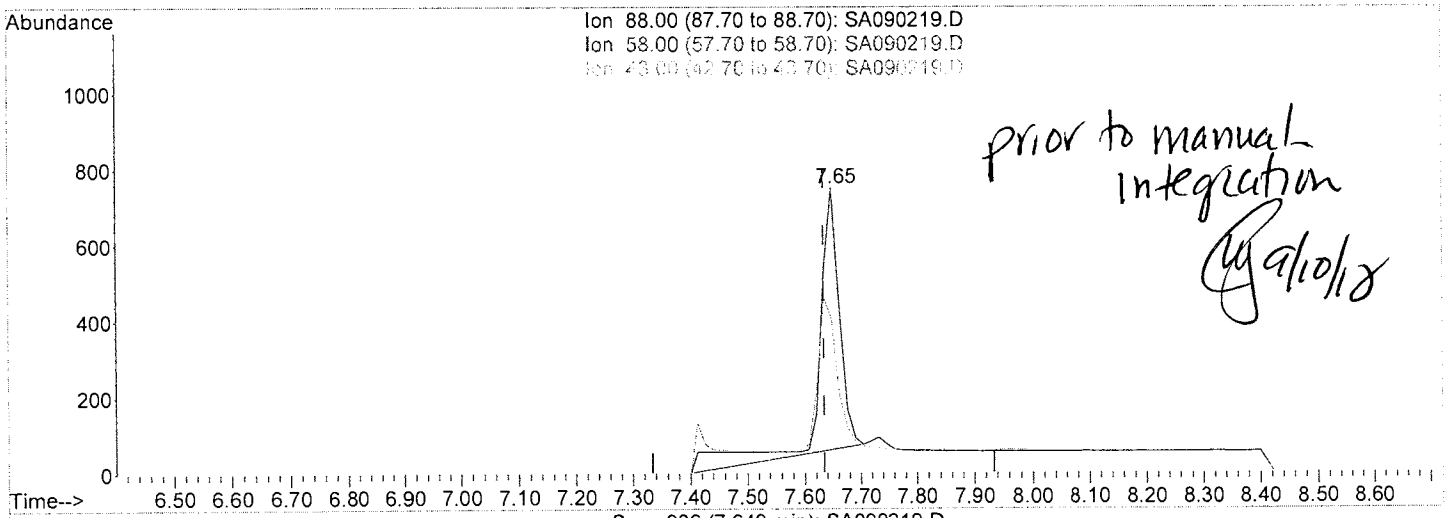
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	117617	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	114286	9.73	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%			
4) SS 4-BFB_MS	11.68	95	46304	8.79	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.87%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1482m	5.902	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

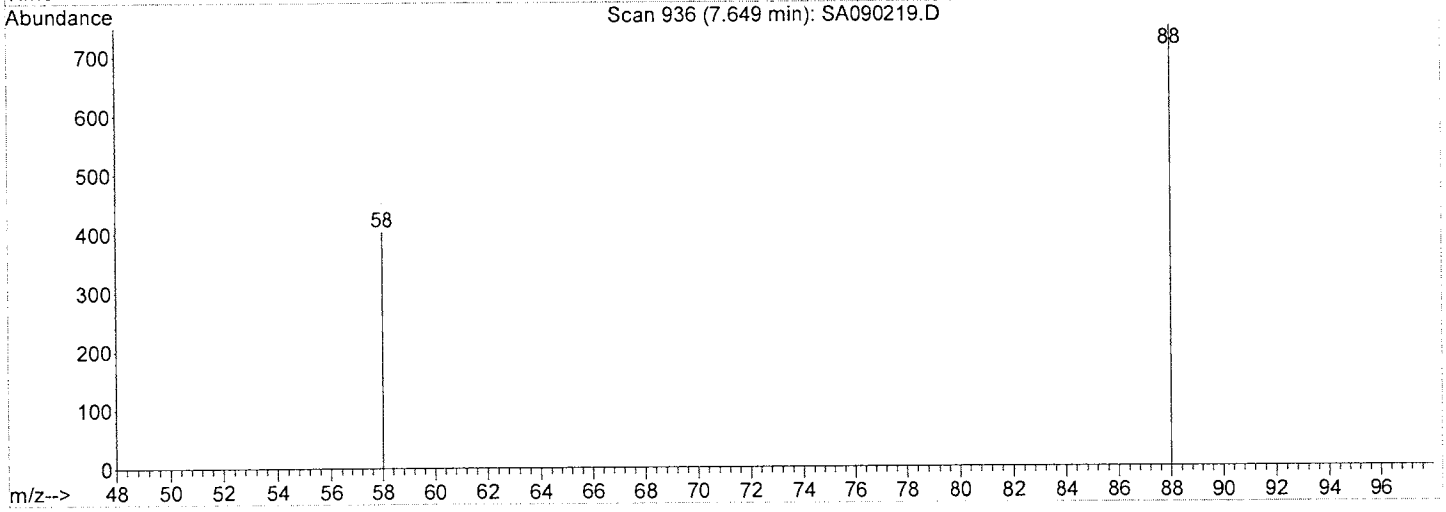
Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090219.D Vial: 19
Acq On : 3 Sep 2012 9:03 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:12 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration



prior to manual integration
9/10/12



TIC: SA090219.D

(2) 1,4-dioxaneV

7.65min (+0.014) 7.34ug/L

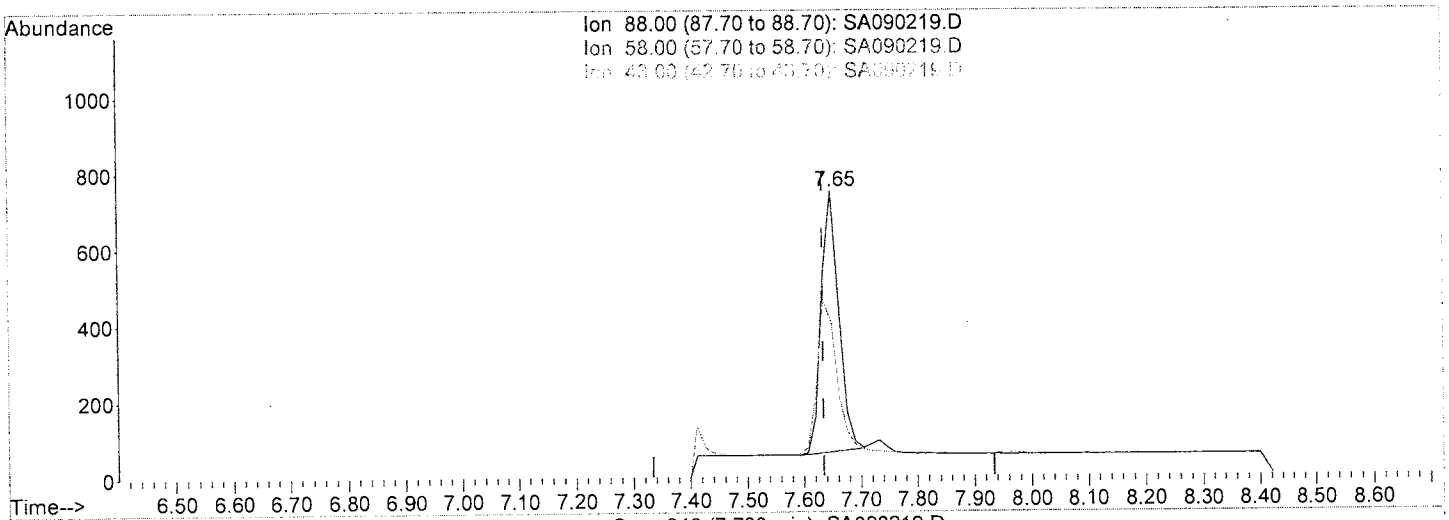
response 1844

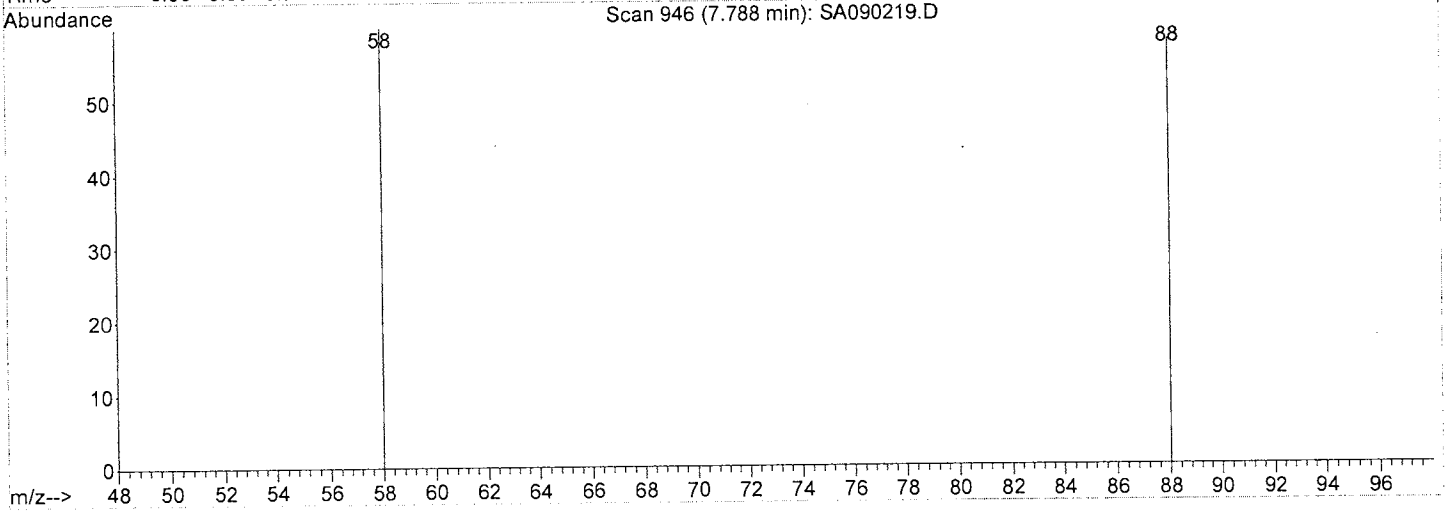
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	53.81
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090219.D Vial: 19
Acq On : 3 Sep 2012 9:03 am Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:14 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090219.D

(2) 1,4-dioxaneV

7.65min (+0.014) 5.90ug/L m

response 1482

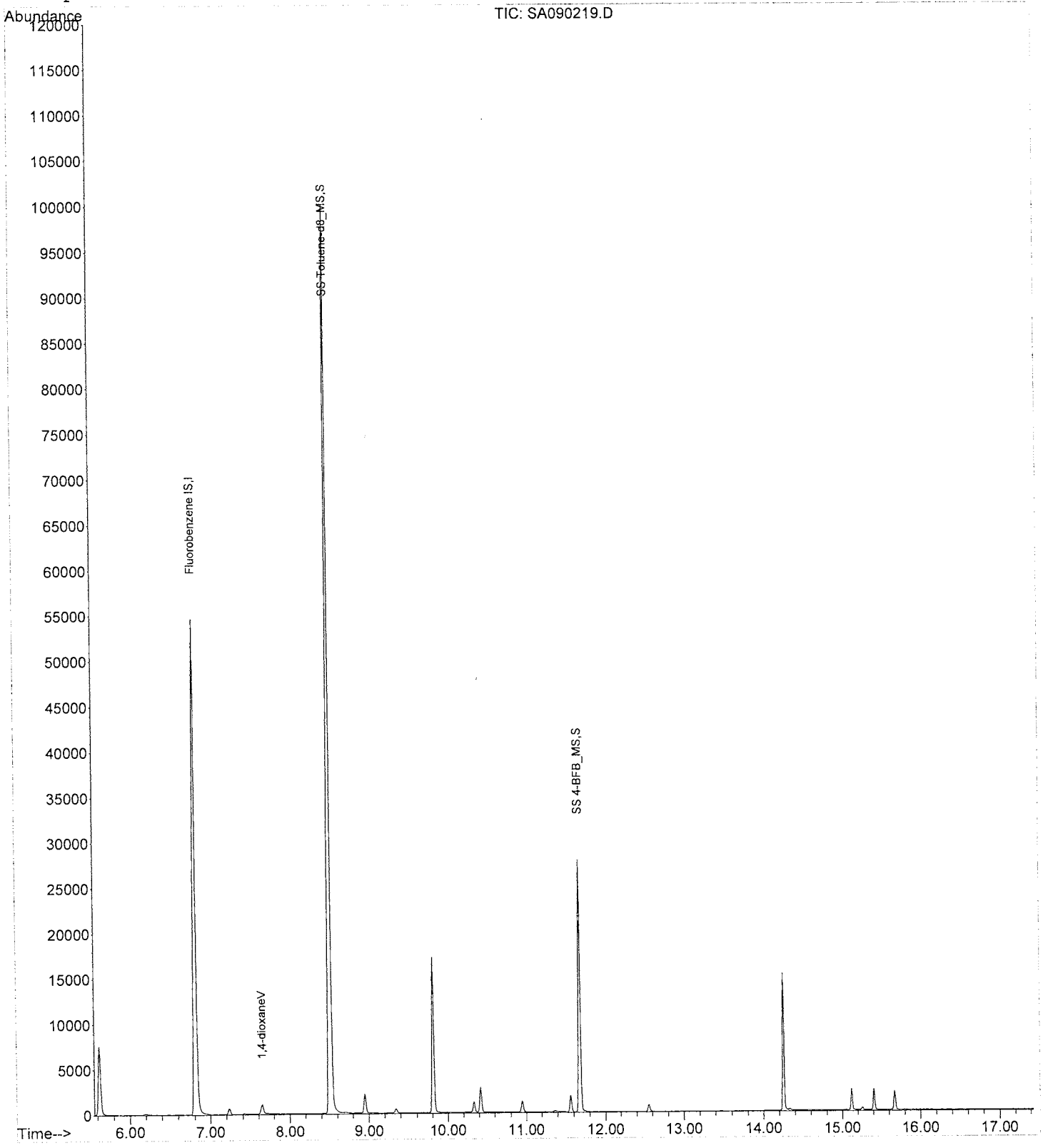
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	53.81
43.00	0.00	0.00
0.00	0.00	0.00

9/10/12

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090219.D Vial: 19
Acq On : 3 Sep 2012 9:03 am Operator: VG
Sample : LCSaA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:14 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090220.D Vial: 20
Acq On : 3 Sep 2012 9:53 am Operator: VG
Sample : LCSDA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 03 10:13:34 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

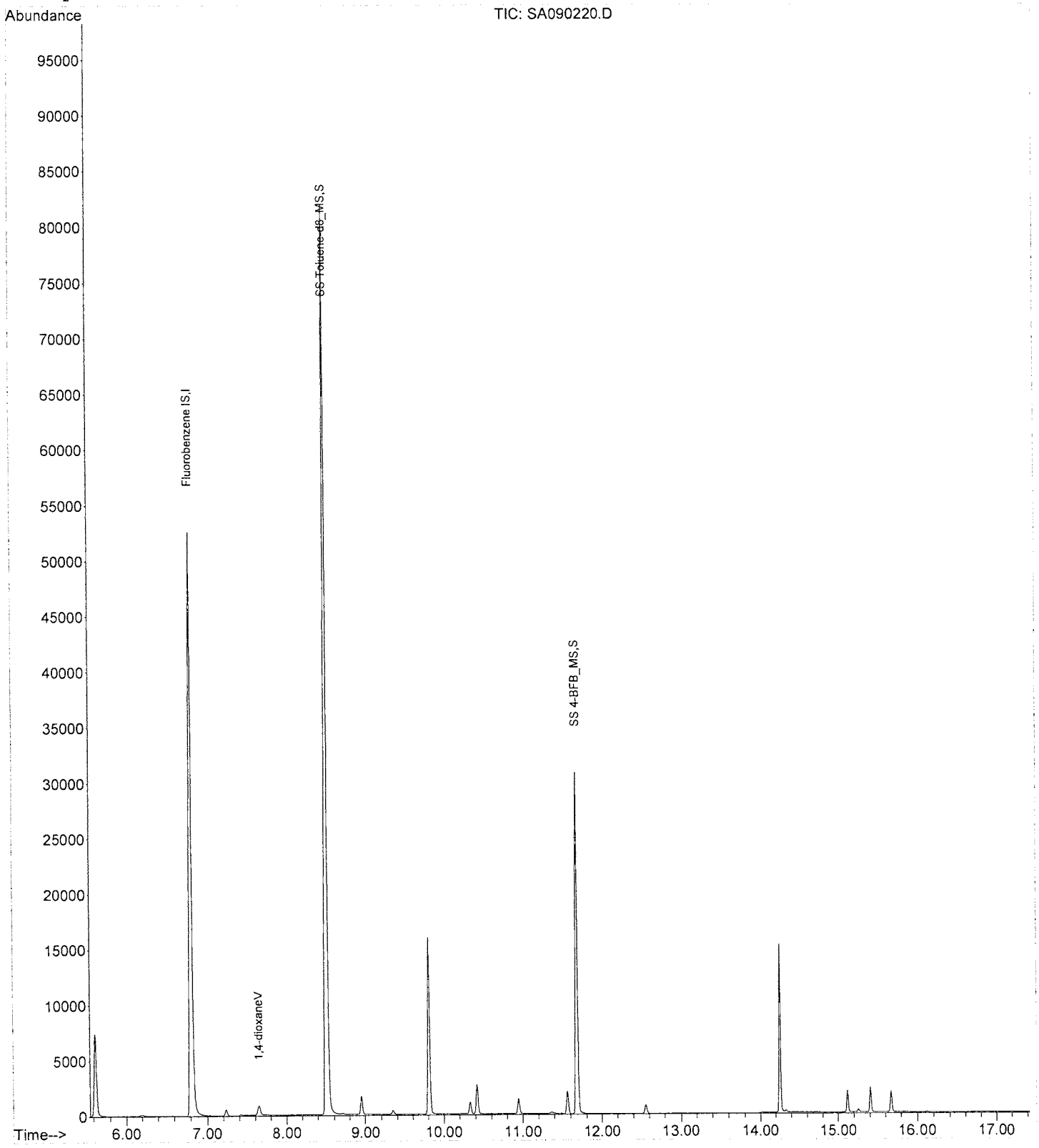
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	111416	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	94248	8.47	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.70%			
4) SS 4-BFB_MS	11.68	95	50788	10.17	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	1194	5.019	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090220.D Vial: 20
Acq On : 3 Sep 2012 9:53 am Operator: VG
Sample : LCSDA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 3 10:12 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090221.D Vial: 21
Acq On : 3 Sep 2012 10:42 am Operator: VG
Sample : BlnkA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:06:32 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	108224	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	105945	9.80	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.02%			
4) SS 4-BFB_MS	11.68	95	49802	10.27	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.71%			

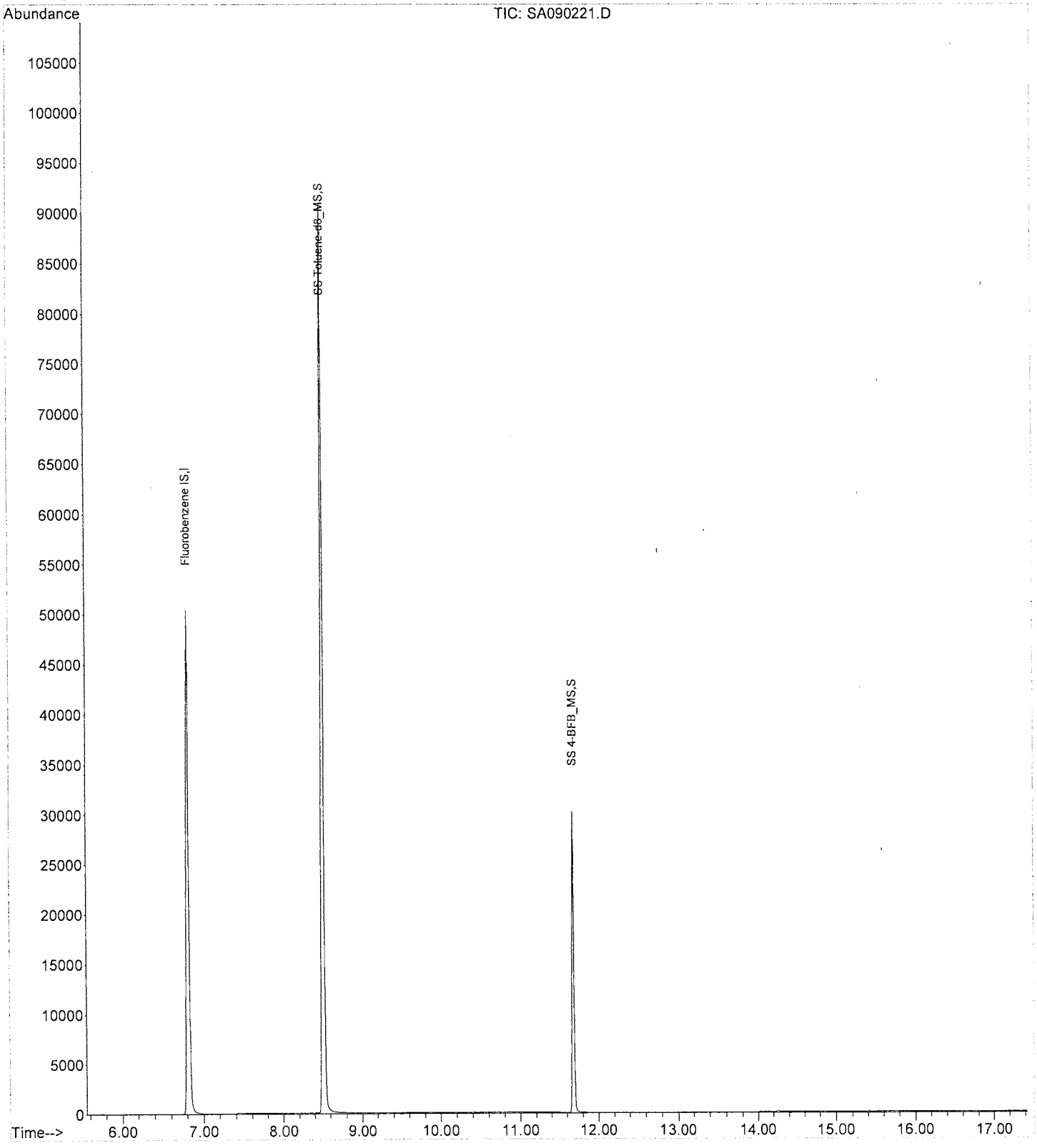
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090221.D Vial: 21
Acq On : 3 Sep 2012 10:42 am Operator: VG
Sample : BlnkA090212V82602 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 11:15 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090222.D Vial: 22
Acq On : 3 Sep 2012 11:32 am Operator: VG
Sample : 113653.09 Inst : VOAMS2
Misc : X1;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:47 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	110528	10.000 ug/L	0.00
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.51	98	121461	11.00 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130			Recovery = 110.04%	
4) SS 4-BFB_MS	11.68	95	49771	10.05 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130			Recovery = 100.50%	
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.65	88	478	2.026 ug/L #	24

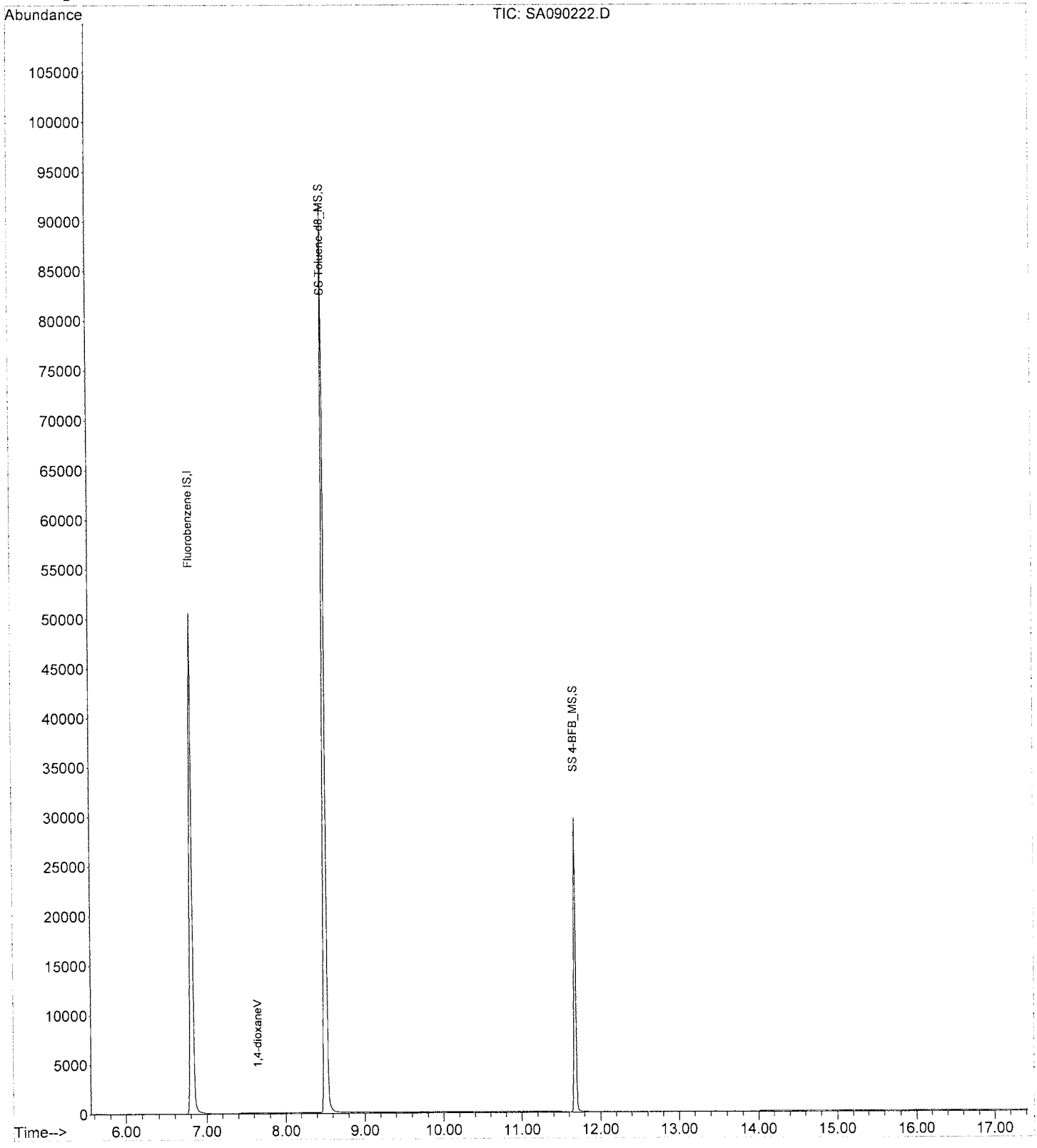
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090222.D 2SIM0524.M Mon Sep 10 10:07:47 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090222.D Vial: 22
Acq On : 3 Sep 2012 11:32 am Operator: VG
Sample : 113653.09 Inst : VOAMS2
Misc : X1;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090223.D Vial: 23
Acq On : 3 Sep 2012 12:22 pm Operator: VG
Sample : 113653.10 Inst : VOAMS2
Misc : X1;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:50 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS		6.81	96	114938	10.000	ug/L	0.01
System Monitoring Compounds							
3) SS Toluene-d8_MS		8.51	98	123858	10.79	ug/L	0.01
Spiked Amount	10.000	Range 70 - 130		Recovery =	107.90%		
4) SS 4-BFB_MS		11.68	95	41544	8.07	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery =	80.67%		
Target Compounds							Qvalue
2) 1,4-dioxaneV		7.65	88	502	2.046	ug/L #	24

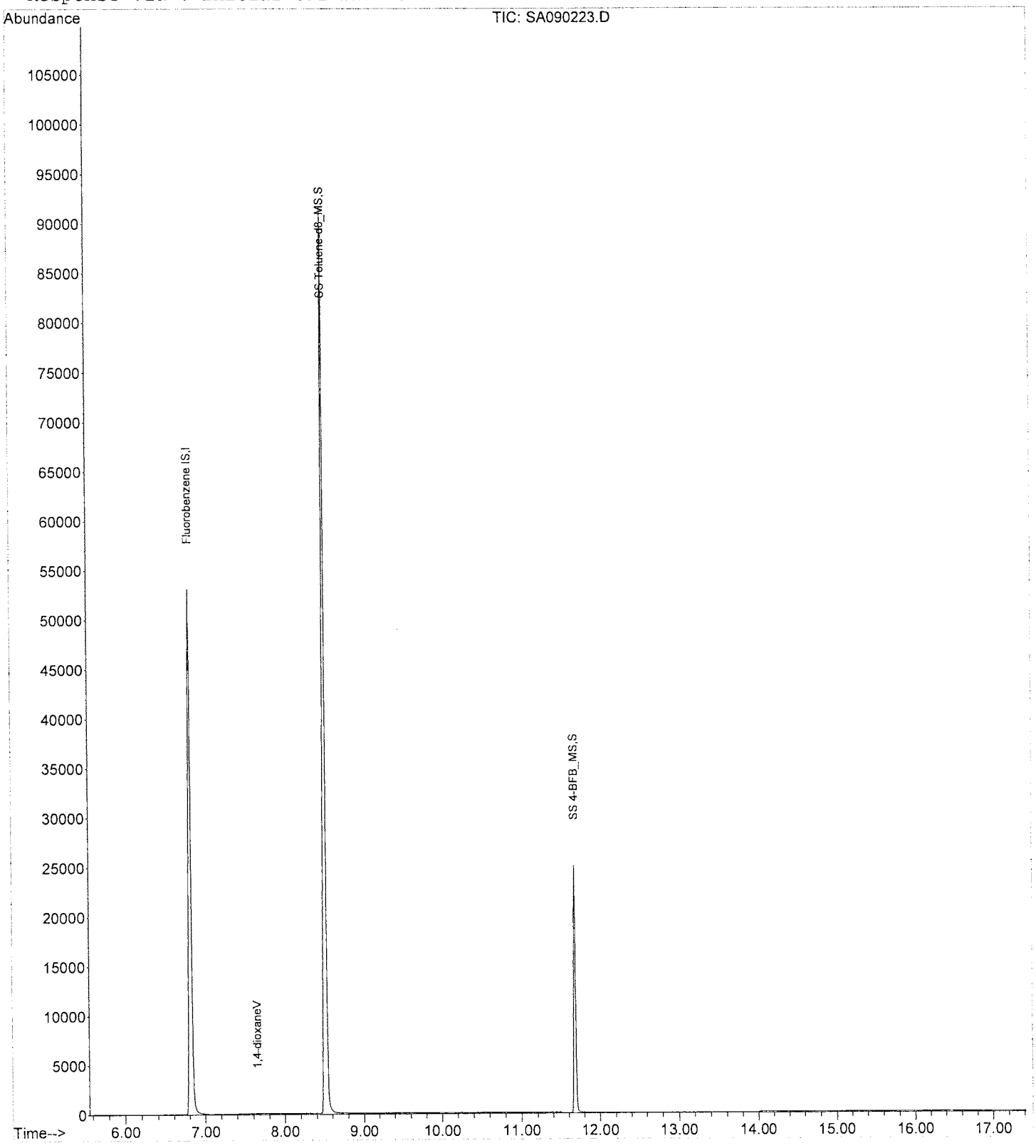
9/10/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090223.D 2SIM0524.M Mon Sep 10 10:07:50 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090223.D Vial: 23
Acq On : 3 Sep 2012 12:22 pm Operator: VG
Sample : 113653.10 Inst : VOAMS2
Misc : X1;5mL RR Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090224.D Vial: 24
Acq On : 3 Sep 2012 1:13 pm Operator: VG
Sample : 113653.13 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07:53 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS		6.81	96	115209	10.000	ug/L	0.00
System Monitoring Compounds							
3) SS Toluene-d8_MS		8.51	98	96901	8.42	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery =	84.22%		
4) SS 4-BFB_MS		11.68	95	49948	9.68	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery =	96.76%		

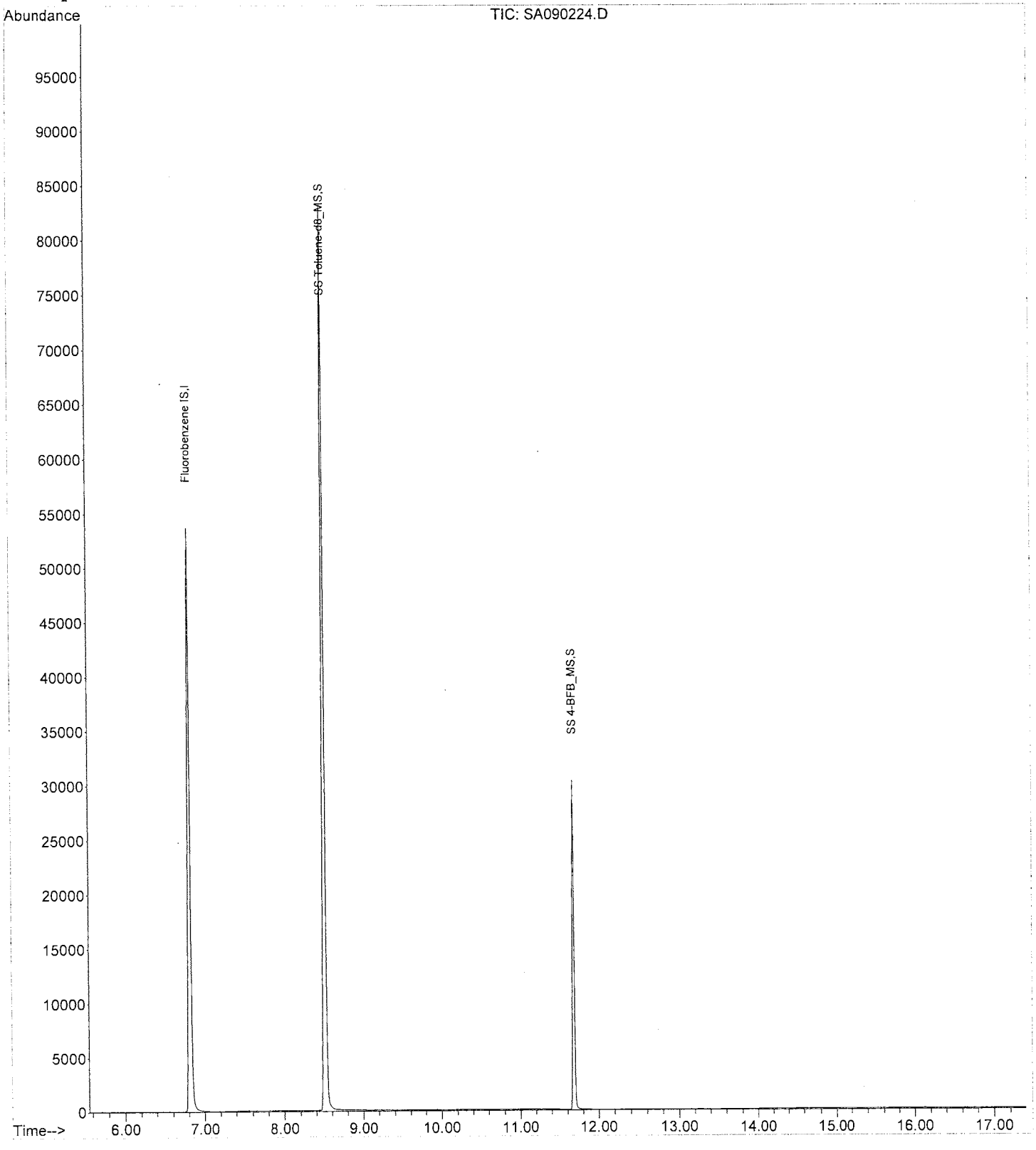
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090224.D Vial: 24
Acq On : 3 Sep 2012 1:13 pm Operator: VG
Sample : 113653.13 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 10 10:07 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Wet Chemistry

Sample and QC Data

		COD, LOW LEVEL NOTEBOOK		Page	2
HACH Vial Lot #:	A2082	HACH 8000, EPA 410.4, SM 5220D		Dig. Date:	9/4/2012
Stock Lot#:	CS0115400.6743	Param #1540		Spec. Date:	9/4/2012
QC Stock Lot#:	QC0215400.6742			Analyst:	SCW
Date of Calib:	08/20/12			Time:	13:20
Analyst:	SCW				

LINEAR REGRESSION, CORRELATION COEFFICIENT

PPM		0	10	50	100	200		
Respons		0.756	0.712	0.574	0.429	0.109	← Enter calibration data here	
Conc.		0	10	50	100	200		if new calib
X * Y		0	7.12	28.7	42.9	21.8		
X^2		0	100	2500	10000	40000		
Y^2		0.57154	0.50694	0.32948	0.18404	0.01188		
						Slope	-0.0031949	
N	5	Sum (Y)	2.58	Sum(X^2	52600	Y int.	0.746032984	
Sum (X)	360	Sum (X * Y)	100.52	Sum(Y^2	1.60388	Cor.	-0.99951472	

x	BatSamNum Sample ID:	Vol Dist(ml)	Final Vol(ml)	Abs 420nm	Report mg/L	Dil Fac	Final Conc mg/L COD	QA/QC Values	% Rec.	% RPD
	Blank	2	2	0.73	**5.018**	1	5.018			
	QC 100 ppm	2	2	0.442	**95.162**	1	95.162	100	95.2	
	Ck Std 50 ppm	2	2	0.575	**53.533**	1	53.533	50	107.1	
	Ck Std 100 ppm	2	2	0.402	**107.682**	1	107.682	100	107.7	
	QC 100 ppm	2	2	0.434	**97.666**	1	97.666	100	97.7	
	113653.18	2	2	0.604	**44.456**	1	44.456			
	113653.19	2	2	0.605	**44.143**	1	44.143			
	113653.18	1	2	0.662	**26.302**	2	52.604			
	113653.19	1	2	0.652	**29.432**	2	58.864			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
	sample				**233.507**	**#DIV/0!**	#DIV/0!			
	MS				**233.507**	**#DIV/0!**	#DIV/0!	50	0.0	
	MSD				**233.507**	**#DIV/0!**	#DIV/0!	50	0.0	0.0
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
					233.507	**#DIV/0!**	#DIV/0!			
	sample				**233.507**	**#DIV/0!**	#DIV/0!			
	MS				**233.507**	**#DIV/0!**	#DIV/0!	50	0.0	
	MSD				**233.507**	**#DIV/0!**	#DIV/0!	50	0.0	0.0

Comments:

General:	The samples run with a dilution factor of 2 were invalid (low). The un-diluted samples will be reported
Dilution:	
QC:	80-115%R
Cal ck:	90-110%R
Dup/Spk:	MS 80-120%R; RPD </=20
QC Check:	

AMMONIA PROBE NOTEBOOK

EPA Method 350.3/Std Meth 4500NH3D

Cal Std Lot#:	CS05113800.6927	Param # = 13800		**Date:**	9/11/2012
LCS / Spike:	21448			**Analyst:**	LAS
Reagent #:	RO113800.6926			**Time:**	10:13 AM

CALIBRATION:	**conc mg/L**	**reading**	**units**	**% Rec.**	**Probe Calibration**	
Cal std =	**1**	**84.3**	mV		**Temp:**	21.1
Cal std =	**10**	**27.8**	mV		**Eff:**	95.6000
Cal Check	0.05	0.0513	mg/L	102.6	**Slope:**	-56.400
Cal Check	5	5.21	mg/L	104.2		
Cal Check	20	20.4	mg/L	102.0		
Cal Check	50	52.6	mg/L	105.2		
Cal Check	100	106	mg/L	106.0		

Sample Type	BatSamNum	Free Cl	Vol(ml)	Wt (g)		Reading mg/L	Dil Fact /100mL	Final Conc mg/L	% Solid decimal	Conc mg/kg	QA/QC Values	% Rec.	% RPD
Blank		<1	100			0.0135	1	0.01		#DIV/0!			
LCS 2 mg/L		<1	100			2.08	1	2.08		#DIV/0!	2	104.0	
LCS 2 mg/L		<1	100			2.15	1	2.15		#DIV/0!	2	107.5	3.3
	113802.01	<1	100			0.0579	1	0.06		#DIV/0!			
	113802.02	<1	100			0.0385	1	0.04		#DIV/0!			
	113802.03	<1	100			0.0356	1	0.04		#DIV/0!			
	113828.01	<1	100			1.21	1	1.21		#DIV/0!			
	113858.02	<1	100			0.266	1	0.27		#DIV/0!			
	113777.02	<1	100			0.33	1	0.33		#DIV/0!			
	113895.01	<1	100			1.46	1	1.46		#DIV/0!			
	113880.02	<1	100			0.0465	1	0.05		#DIV/0!			
Sam	113941.01	<1	100			3.45	1	3.45		#DIV/0!			
Dup	113941.01	<1	100			3.31	1	3.31		#DIV/0!			4.1
MS	113941.01	<1	100			5.65	1	5.65		#DIV/0!	2	110.0	
MSD	113941.01	<1	100			5.73	1	5.73		#DIV/0!	2	114.0	3.6
	113708.01	<1	100			0.354	1	0.35		#DIV/0!			
	113893.02	<1	100			0.273	1	0.27		#DIV/0!			
	113804.01	Cl+	100			1.44	1	1.44		#DIV/0!			
	113811.01	<1	100			0.184	1	0.18		#DIV/0!			
	113810.01	<1	100			0.193	1	0.19		#DIV/0!			
	113916.01	<1	10			30.9	10	309.00		#DIV/0!			
	113812.02	Cl+	100			0.398	1	0.40		#DIV/0!			
	113792.01	<1	100			52.4	1	52.40		#DIV/0!			
	113880.01	<1	50			51.4	2	102.80		#DIV/0!			
Sam	113653.18	<1	100			23.6	1	23.60		#DIV/0!			
Dup	113653.18	<1	100			22.7	1	22.70		#DIV/0!			3.9
MS	113653.18	<1	100			25.2	1	25.20		#DIV/0!	2	80.0	
MSD	113653.18	<1	100			25.9	1	25.90		#DIV/0!	2	115.0	35.9
	113653.19	<1	100			24.3	1.00	24.300		#DIV/0!			

Comments:

QC:

Cal ck:

Dup:

MS/MSD:

QC check:

Eastern Analytical, Inc.

Professional laboratory & drilling services

Metals 6020A

Sample and QC Data

25 Chenell Drive | Concord, NH 03301 | 800.287.0525 | www.eailabs.com

Sample/Batch Report

User Name: ICPMS1
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\AQUIRE_September072012.sam
Report Date/Time: Tuesday, September 11, 2012 12:50:48

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
		Calibration Blank		Sample					
2		Hg0.1ppbCS		Sample					
3		Hg1.0ppbCS		Sample					
4		Hg5.0ppbCS		Sample					
9		TM.5ppbCS		Sample					
10		TM5ppbCS		Sample					
11		TM20ppbCS		Sample					
12		Min100CS		Sample					
13		Min1000CS		Sample					
14		Min5000CS		Sample					
5		Reagent Blank		Sample					
6		SCP_ICV		Sample					
15		ERA DWQC_ICV		Sample					
7		ERA WWQC_ICV		Sample					
8		MIN_ICV		Sample					
16		flush		Sample					
17		flush		Sample					
18		LLCS	0.1ppb TM + 1(	Sample					
19		5ppb		Sample					
20		ICSA		Sample					
21		ICSAB		Sample					
22		5ppm LRC-flush		Sample					
23		flush		Sample					
24		BLK	8/31/12	Sample					
25		BLK	9/4/12	Sample					
26		LCS	8/31/12	Sample					
27		flush		Sample					
28		flush		Sample					
29		flush		Sample					
30		113593.02	AqTot 1:10 Min	Sample					
31		113593.04	AqTot 1:10 Min	Sample					
32		113593.06	AqTot 1:10 Min	Sample					
33		113653.14	AqTot 1:10 Min	Sample					
34		113653.15	AqTot 1:10 Min	Sample					
35		113653.16	AqTot 1:10 Min	Sample					
36		113653.17	AqTot 1:10 Min	Sample					
37		113653.18	AqTot 1:10 Min	Sample					
38		113689.03	AqTot 1:10 Min	Sample					
39		113689.09	AqTot 1:10 Min	Sample					
40		113689.10	AqTot 1:10 Min	Sample					
41		113689.11	AqTot 1:10 Min	Sample					
42		113593.02 MS	AqTot 1:10 Min	Sample					
43		113593.02 MS	AqTot 1:10 Min	Sample					
44		113653.17 MS	AqTot 1:10 Min	Sample					
45		113653.17 MS	AqTot 1:10 Min	Sample					
46		flush		Sample					
47		flush		Sample					
48		flush		Sample					
49		113593.01	AqTot 1:1 Min L	Sample	1				

50	113593.03	AqTot 1:1 Min l	Sample
51	113593.07	AqTot 1:1 Min l	Sample
52	113653.01	AqTot 1:1 Min l	Sample
53	113653.02	AqTot 1:1 Min l	Sample
54	113653.03	AqTot 1:1 Min l	Sample
55	113653.06	AqTot 1:1 Min l	Sample
56	113653.07	AqTot 1:1 Min l	Sample
57	113653.08	AqTot 1:1 Min l	Sample
58	113689.08	AqTot 1:1 Min l	Sample
59	113653.07 MS	AqTot 1:1 Min l	Sample
60	113653.07 MS	AqTot 1:1 Min l	Sample
61	113689.08 MS	AqTot 1:1 Min l	Sample
62	113689.08 MS	AqTot 1:1 Min l	Sample
63	flush		Sample
64	flush		Sample
65	flush		Sample
66	113593.02	AqTot Be/Min n	Sample
67	113593.04	AqTot Be/Min n	Sample
68	113593.05	AqTot Be/Min n	Sample
69	113593.06	AqTot Be/Min n	Sample
70	113593.08	AqTot Be/Min n	Sample
71	113593.09	AqTot Be/Min n	Sample
72	113593.10	AqTot Be/Min n	Sample
73	113593.11	AqTot Be/Min n	Sample
74	113593.12	AqTot Be/Min n	Sample
75	113653.04	AqTot Be/Min n	Sample
76	113653.05	AqTot Be/Min n	Sample
77	113653.09	AqTot Be/Min n	Sample
78	113653.10	AqTot Be/Min n	Sample
79	113653.11	AqTot Be/Min n	Sample
80	113653.12	AqTot Be/Min n	Sample
81	113653.13	AqTot Be/Min n	Sample
82	113653.14	AqTot Be/Min n	Sample
83	113653.15	AqTot Be/Min n	Sample
84	113653.16	AqTot Be/Min n	Sample
85	113653.17	AqTot Be/Min n	Sample
86	113653.18	AqTot Be/Min n	Sample
87	113653.20	AqTot Be/Min n	Sample
88	113689.01	AqTot Be/Min n	Sample
89	113689.02	AqTot Be/Min n	Sample
90	113689.03	AqTot Be/Min n	Sample
91	113689.04	AqTot Be/Min n	Sample
92	113689.05	AqTot Be/Min n	Sample
93	113689.06	AqTot Be/Min n	Sample
94	113689.07	AqTot Be/Min n	Sample
95	113689.09	AqTot Be/Min n	Sample
96	113689.10	AqTot Be/Min n	Sample
97	113689.11	AqTot Be/Min n	Sample
98	113593.12 MS	AqTot Be/Min n	Sample
99	113593.12 MS	AqTot Be/Min n	Sample
100	flush		Sample
101	flush		Sample
102	flush		Sample
103	113653.01	Aqdis	Sample
104	113653.02	Aqdis	Sample
105	113653.04	Aqdis	Sample
106	113653.05	Aqdis	Sample
107	113653.06	Aqdis	Sample
108	113653.07	Aqdis	Sample
109	113653.07 MS	Aqdis	Sample

110	113653.07 MS	Aqdis	Sample
111	flush		Sample
112	flush		Sample
113	flush		Sample
114	113653.08	Aqdis	Sample
115	113653.09	Aqdis	Sample
116	113653.10	Aqdis	Sample
117	113653.11	Aqdis	Sample
118	113653.12	Aqdis	Sample
119	113653.13	Aqdis	Sample
120	113653.16	Aqdis	Sample
121	113653.17	Aqdis	Sample
122	113653.20	Aqdis	Sample
123	113689.01	Aqdis	Sample
124	113689.01 MS	Aqdis	Sample
125	113689.01 MS	Aqdis	Sample
126	flush		Sample
127	flush		Sample
128	flush		Sample
129	113689.02	Aqdis	Sample
130	113689.03	Aqdis	Sample
131	113689.04	Aqdis	Sample
132	113689.05	Aqdis	Sample
133	113689.07	Aqdis	Sample
134	113689.08	Aqdis	Sample
135	113689.09	Aqdis	Sample
136	113689.10	Aqdis	Sample
137	113689.11	Aqdis	Sample
138			Sample
139			Sample
140			Sample
141			Sample
142			Sample
143			Sample
144			Sample
145			Sample
146			Sample
147			Sample
148			Sample
149			Sample
150			Sample
151			Sample
152			Sample
153			Sample
154			Sample
155			Sample
156			Sample
157			Sample
158			Sample
159			Sample
160			Sample

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Thursday, September 06, 2012 23:21:43	89	90	90	89
QC Std 2	Thursday, September 06, 2012 23:28:08	89	90	91	90
QC Std 5	Thursday, September 06, 2012 23:34:32	91	90	91	90
QC Std 6	Thursday, September 06, 2012 23:40:57	93	93	91	90
113593.12 MS	Thursday, September 06, 2012 23:47:27	90	91	88	88
113593.12 MSD	Thursday, September 06, 2012 23:53:58	91	92	90	0
113653.01	Friday, September 07, 2012 00:20:03	112	91	88	89
113653.02	Friday, September 07, 2012 00:26:35	107	92	85	87
113653.03	Friday, September 07, 2012 00:33:06	104	89	86	88
113653.04	Friday, September 07, 2012 00:39:37	107	90	87	88
113653.05	Friday, September 07, 2012 00:46:08	111	91	88	89
QC Std 1	Friday, September 07, 2012 00:52:34	88	90	90	89
QC Std 2	Friday, September 07, 2012 00:58:59	90	89	90	89
QC Std 5	Friday, September 07, 2012 01:05:23	91	89	87	87
QC Std 6	Friday, September 07, 2012 01:11:48	91	90	89	89
113653.06	Friday, September 07, 2012 01:18:19	105	90	86	87
113653.07	Friday, September 07, 2012 01:24:50	108	89	86	87
113653.07 MS	Friday, September 07, 2012 01:31:21	112	91	88	89
113653.07 MSD	Friday, September 07, 2012 01:37:52	107	87	83	85
113653.07 MS	Friday, September 07, 2012 01:44:23	106	88	84	85
113653.07 MSD	Friday, September 07, 2012 01:50:54	110	88	84	87
113653.08	Friday, September 07, 2012 02:17:01	109	88	85	87
QC Std 1	Friday, September 07, 2012 02:23:28	90	86	87	88
QC Std 2	Friday, September 07, 2012 02:29:53	86	86	87	87
QC Std 5	Friday, September 07, 2012 02:36:17	89	88	88	89
QC Std 6	Friday, September 07, 2012 02:42:41	90	88	87	88
113653.09	Friday, September 07, 2012 02:49:12	111	92	90	90
113653.1	Friday, September 07, 2012 02:55:43	113	93	90	92
113653.11	Friday, September 07, 2012 03:02:14	120	97	95	97
113653.12	Friday, September 07, 2012 03:08:46	104	91	88	91
113653.13	Friday, September 07, 2012 03:15:17	107	94	90	93
113653.14	Friday, September 07, 2012 03:21:48	118	93	89	91
113653.15	Friday, September 07, 2012 03:28:19	104	87	85	87
113653.16	Friday, September 07, 2012 03:34:51	108	89	87	90
113653.17	Friday, September 07, 2012 03:41:22	111	91	88	90
113653.17 MS	Friday, September 07, 2012 03:47:54	107	89	86	87
QC Std 1	Friday, September 07, 2012 03:54:21	93	91	90	91
QC Std 2	Friday, September 07, 2012 04:00:47	90	89	90	90
QC Std 5	Friday, September 07, 2012 04:07:11	94	92	91	91
QC Std 6	Friday, September 07, 2012 04:13:35	94	92	89	91
113653.17 MSD	Friday, September 07, 2012 04:20:06	107	91	85	88
113653.18	Friday, September 07, 2012 04:46:13	111	90	86	87
113653.2	Friday, September 07, 2012 04:52:44	93	90	90	91
113689.01	Friday, September 07, 2012 04:59:16	108	92	89	91
113689.02	Friday, September 07, 2012 05:05:48	106	91	88	90
113689.03	Friday, September 07, 2012 05:12:19	111	86	82	85
113689.04	Friday, September 07, 2012 05:18:51	110	92	90	92
QC Std 1	Friday, September 07, 2012 05:25:18	91	89	87	88

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 2	Friday, September 07, 2012 05:31:43	91	89	88	90
QC Std 5	Friday, September 07, 2012 05:38:07	94	91	89	92
QC Std 6	Friday, September 07, 2012 05:44:32	96	92	89	92
113689.05	Friday, September 07, 2012 05:51:03	107	93	90	92
113689.06	Friday, September 07, 2012 05:57:35	119	94	91	94
113689.07	Friday, September 07, 2012 06:04:07	108	94	91	93
113689.08	Friday, September 07, 2012 06:10:39	117	91	88	91
113689.08 MS	Friday, September 07, 2012 06:17:12	114	92	88	89
113689.08 MSD	Friday, September 07, 2012 06:23:44	111	91	87	89
113689.09	Friday, September 07, 2012 06:49:53	106	88	86	90
QC Std 1	Friday, September 07, 2012 06:56:20	90	87	87	89
QC Std 2	Friday, September 07, 2012 07:02:46	92	89	90	90
QC Std 5	Friday, September 07, 2012 07:09:10	92	90	89	91
QC Std 6	Friday, September 07, 2012 07:15:35	98	93	90	92
113689.1	Friday, September 07, 2012 07:22:06	104	89	86	90
113689.11	Friday, September 07, 2012 07:28:38	115	87	85	88
113593.02	Friday, September 07, 2012 07:35:10	102	85	84	86
113593.02 MS	Friday, September 07, 2012 07:41:43	106	89	85	86
113593.02 MSD	Friday, September 07, 2012 07:48:15	106	88	84	86
113593.03	Friday, September 07, 2012 08:14:26	112	91	87	90
113593.05	Friday, September 07, 2012 08:20:58	104	89	88	91
QC Std 1	Friday, September 07, 2012 08:27:26	92	88	88	89
QC Std 2	Friday, September 07, 2012 08:33:51	91	88	87	88
QC Std 5	Friday, September 07, 2012 08:40:15	96	90	88	91
QC Std 6	Friday, September 07, 2012 08:46:40	96	91	89	91
113593.08	Friday, September 07, 2012 08:53:11	126	96	89	91
113593.09	Friday, September 07, 2012 08:59:44	114	94	90	92
113593.1	Friday, September 07, 2012 09:06:17	106	93	90	92
113593.11	Friday, September 07, 2012 09:14:57	99	91	90	92
113593.12	Friday, September 07, 2012 09:21:30	99	93	91	94
113593.08	Friday, September 07, 2012 09:28:03	113	95	89	90
QC Std 1	Friday, September 07, 2012 09:41:03	96	91	89	91
QC Std 2	Friday, September 07, 2012 09:47:28	100	93	90	92
QC Std 5	Friday, September 07, 2012 09:53:52	99	92	90	91
QC Std 6	Friday, September 07, 2012 10:00:17	97	94	89	91
BLK	Friday, September 07, 2012 10:34:16	109	101	97	99
BLK	Friday, September 07, 2012 10:40:49	112	101	98	98
LCS	Friday, September 07, 2012 10:47:22	105	98	93	96
QC Std 1	Friday, September 07, 2012 11:49:03	100	94	91	93
QC Std 2	Friday, September 07, 2012 11:55:28	97	94	90	91
QC Std 5	Friday, September 07, 2012 12:01:52	96	94	90	91
QC Std 6	Friday, September 07, 2012 12:08:17	96	93	89	91

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Thursday, September 06, 2012 23:21:43	Sample Date/Time:	Friday, September 07, 2012 00:52:34
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.01153	ug/L		< 1	Ag	107	0.016485	ug/L		< 1
Ag	109	0.00785	ug/L		< 1	Ag	109	0.015977	ug/L		< 1
Al	27	-0.780217	ug/L		< 50	Al	27	-0.810205	ug/L		< 50
As	75	0.016746	ug/L		< 1	As	75	0.059117	ug/L		< 1
Ba	137	-0.001327	ug/L		< 1	Ba	137	-0.001865	ug/L		< 1
Be	9	-0.016137	ug/L		< 1	Be	9	0.000552	ug/L		< 1
Ca	44	-5.043109	ug/L		< 50	Ca	44	-12.574116	ug/L		< 50
Cd	111	0.014016	ug/L		< 1	Cd	111	0.019322	ug/L		< 1
Cd	114	0.014114	ug/L		< 1	Cd	114	0.021919	ug/L		< 1
Co	59	0.001465	ug/L		< 1	Co	59	0.001317	ug/L		< 1
Cr	52	0.052832	ug/L		< 1	Cr	52	0.053345	ug/L		< 1
Cu	63	-0.096026	ug/L		< 1	Cu	63	-0.108823	ug/L		< 1
Cu	65	-0.008426	ug/L		< 1	Cu	65	-0.005705	ug/L		< 1
Fe	54	-1.229769	ug/L		< 50	Fe	54	1.251155	ug/L		< 50
Fe	56	24.816208	ug/L		< 50	Fe	56	23.873513	ug/L		< 50
Ge	72		ug/L	90.257		Ge	72		ug/L	90.266	
Hg	200	-0.00172	ug/L		< 0.2	Hg	200	-0.002353	ug/L		< 0.2
Hg	202	-0.00343	ug/L		< 0.2	Hg	202	-0.002954	ug/L		< 0.2
Ho	165		ug/L	89.45		Ho	165		ug/L	88.824	
In	115		ug/L	90.082		In	115		ug/L	90.109	
K	39	8.582535	ug/L		< 50	K	39	8.153328	ug/L		< 50
Mg	24	-0.004552	ug/L		< 50	Mg	24	0.097075	ug/L		< 50
Mg	25	0.056959	ug/L		< 50	Mg	25	0.097	ug/L		< 50
Mn	55	-0.928601	ug/L		< 5	Mn	55	-0.930893	ug/L		< 5
Na	23	3.919229	ug/L		< 5000	Na	23	3.085269	ug/L		< 5000
Ni	60	0.004604	ug/L		< 1	Ni	60	0.003181	ug/L		< 1
Ni	62	0.034922	ug/L		< 1	Ni	62	0.019586	ug/L		< 1
P	31	-8.078879	ug/L		< 50	P	31	-3.507515	ug/L		< 50
Pb	208	-0.01169	ug/L		< 1	Pb	208	-0.010767	ug/L		< 1
Sb	121	0.009473	ug/L		< 1	Sb	121	0.013232	ug/L		< 1
Sb	123	0.008926	ug/L		< 1	Sb	123	0.012066	ug/L		< 1
Sc	45		ug/L	89.237		Sc	45		ug/L	88.179	
Se	82	-0.067136	mg/L		< 1	Se	82	0.161197	mg/L		< 1
Tl	205	0.002326	ug/L		< 1	Tl	205	0.003018	ug/L		< 1
V	51	1.006693	ug/L		< 1	V	51	0.869506	ug/L		< 1
Zn	64	0.165679	ug/L		< 5	Zn	64	0.180725	ug/L		< 5
Zn	66	0.199313	ug/L		< 5	Zn	66	0.189608	ug/L		< 5
Zn	68	0.231192	ug/L		< 5	Zn	68	0.205072	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 02:23:28
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.100559	ug/L		< 1
Ag	109	0.099294	ug/L		< 1
Al	27	-0.788831	ug/L		< 50
As	75	0.026791	ug/L		< 1
Ba	137	0.002456	ug/L		< 1
Be	9	-0.007429	ug/L		< 1
Ca	44	-19.563649	ug/L		< 50
Cd	111	-0.006085	ug/L		< 1
Cd	114	-0.002728	ug/L		< 1
Co	59	0.005546	ug/L		< 1
Cr	52	0.027095	ug/L		< 1
Cu	63	-0.070166	ug/L		< 1
Cu	65	-0.000466	ug/L		< 1
Fe	54	-1.080851	ug/L		< 50
Fe	56	22.854231	ug/L		< 50
Ge	72		ug/L	86.268	
Hg	200	0.000461	ug/L		< 0.2
Hg	202	-0.002948	ug/L		< 0.2
Ho	165		ug/L	87.806	
In	115		ug/L	86.647	
K	39	5.934697	ug/L		< 50
Mg	24	0.161986	ug/L		< 50
Mg	25	0.088311	ug/L		< 50
Mn	55	-0.929713	ug/L		< 5
Na	23	5.256339	ug/L		< 5000
Ni	60	0.012498	ug/L		< 1
Ni	62	0.009988	ug/L		< 1
P	31	-8.119396	ug/L		< 50
Pb	208	-0.009107	ug/L		< 1
Sb	121	0.043178	ug/L		< 1
Sb	123	0.038944	ug/L		< 1
Sc	45		ug/L	89.764	
Se	82	0.027821	mg/L		< 1
Tl	205	0.008195	ug/L		< 1
V	51	0.671489	ug/L		< 1
Zn	64	0.164341	ug/L		< 5
Zn	66	0.178491	ug/L		< 5
Zn	68	0.211095	ug/L		< 5

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 03:54:21
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	1.196455	ug/L		< 1
Ag	109	1.175559	ug/L		< 1
Al	27	-0.726099	ug/L		< 50
As	75	0.062964	ug/L		< 1
Ba	137	0.010282	ug/L		< 1
Be	9	0.000519	ug/L		< 1
Ca	44	-21.138932	ug/L		< 50
Cd	111	0.021357	ug/L		< 1
Cd	114	0.023226	ug/L		< 1
Co	59	0.012933	ug/L		< 1
Cr	52	0.060762	ug/L		< 1
Cu	63	-0.073045	ug/L		< 1
Cu	65	0.03099	ug/L		< 1
Fe	54	-0.557801	ug/L		< 50
Fe	56	22.826428	ug/L		< 50
Ge	72		ug/L	91.219	
Hg	200	0.00814	ug/L		< 0.2
Hg	202	0.008505	ug/L		< 0.2
Ho	165		ug/L	90.582	
In	115		ug/L	89.759	
K	39	2.716743	ug/L		< 50
Mg	24	0.215921	ug/L		< 50
Mg	25	0.157948	ug/L		< 50
Mn	55	-0.944534	ug/L		< 5
Na	23	4.664851	ug/L		< 5000
Ni	60	0.016453	ug/L		< 1
Ni	62	-0.006314	ug/L		< 1
P	31	-7.375926	ug/L		< 50
Pb	208	-0.001166	ug/L		< 1
Sb	121	0.332939	ug/L		< 1
Sb	123	0.332767	ug/L		< 1
Sc	45		ug/L	93.108	
Se	82	0.144823	mg/L		< 1
Tl	205	0.026134	ug/L		< 1
V	51	0.774635	ug/L		< 1
Zn	64	0.199671	ug/L		< 5
Zn	66	0.204113	ug/L		< 5
Zn	68	0.233463	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 05:25:18
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.079574	ug/L		< 1
Ag	109	0.080091	ug/L		< 1
Al	27	-0.781878	ug/L		< 50
As	75	0.103849	ug/L		< 1
Ba	137	-0.001677	ug/L		< 1
Be	9	-0.000139	ug/L		< 1
Ca	44	-26.076269	ug/L		< 50
Cd	111	0.017096	ug/L		< 1
Cd	114	0.018564	ug/L		< 1
Co	59	0.002411	ug/L		< 1
Cr	52	0.074191	ug/L		< 1
Cu	63	-0.117389	ug/L		< 1
Cu	65	-0.008919	ug/L		< 1
Fe	54	-1.163199	ug/L		< 50
Fe	56	20.87404	ug/L		< 50
Ge	72		ug/L	88.834	
Hg	200	-0.003484	ug/L		< 0.2
Hg	202	-0.002977	ug/L		< 0.2
Ho	165		ug/L	87.918	
In	115		ug/L	86.521	
K	39	3.665075	ug/L		< 50
Mg	24	0.169241	ug/L		< 50
Mg	25	0.218242	ug/L		< 50
Mn	55	-0.978181	ug/L		< 5
Na	23	3.028041	ug/L		< 5000
Ni	60	0.013174	ug/L		< 1
Ni	62	-0.014623	ug/L		< 1
P	31	-7.928803	ug/L		< 50
Pb	208	-0.006854	ug/L		< 1
Sb	121	0.020779	ug/L		< 1
Sb	123	0.020251	ug/L		< 1
Sc	45		ug/L	90.595	
Se	82	0.200612	mg/L		< 1
Tl	205	0.008641	ug/L		< 1
V	51	0.924208	ug/L		< 1
Zn	64	0.200822	ug/L		< 5
Zn	66	0.171638	ug/L		< 5
Zn	68	0.218088	ug/L		< 5

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 06:56:20
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.123651	ug/L		< 1
Ag	109	0.117359	ug/L		< 1
Al	27	-0.77231	ug/L		< 50
As	75	0.030556	ug/L		< 1
Ba	137	0.001352	ug/L		< 1
Be	9	-0.000106	ug/L		< 1
Ca	44	-26.518105	ug/L		< 50
Cd	111	0.01683	ug/L		< 1
Cd	114	0.020593	ug/L		< 1
Co	59	0.005315	ug/L		< 1
Cr	52	0.083397	ug/L		< 1
Cu	63	-0.107076	ug/L		< 1
Cu	65	-0.004965	ug/L		< 1
Fe	54	-0.868346	ug/L		< 50
Fe	56	25.646631	ug/L		< 50
Ge	72		ug/L	86.758	
Hg	200	-0.001363	ug/L		< 0.2
Hg	202	-0.004068	ug/L		< 0.2
Ho	165		ug/L	89.37	
In	115		ug/L	86.969	
K	39	3.995345	ug/L		< 50
Mg	24	0.269888	ug/L		< 50
Mg	25	0.297677	ug/L		< 50
Mn	55	-0.971386	ug/L		< 5
Na	23	3.512347	ug/L		< 5000
Ni	60	0.006856	ug/L		< 1
Ni	62	0.010632	ug/L		< 1
P	31	-6.399727	ug/L		< 50
Pb	208	-0.006072	ug/L		< 1
Sb	121	0.040195	ug/L		< 1
Sb	123	0.040163	ug/L		< 1
Sc	45		ug/L	90.048	
Se	82	0.006769	mg/L		< 1
Tl	205	0.00373	ug/L		< 1
V	51	0.941799	ug/L		< 1
Zn	64	0.19523	ug/L		< 5
Zn	66	0.180931	ug/L		< 5
Zn	68	0.1963	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Friday, September 07, 2012 08:27:26	Sample Date/Time:	Friday, September 07, 2012 09:41:03
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	1.215645	ug/L		< 1	Ag	107	0.504789	ug/L		< 1
Ag	109	1.212195	ug/L		< 1	Ag	109	0.493296	ug/L		< 1
Al	27	-0.781788	ug/L		< 50	Al	27	-0.790761	ug/L		< 50
As	75	-0.05965	ug/L		< 1	As	75	-0.016947	ug/L		< 1
Ba	137	0.0018	ug/L		< 1	Ba	137	0.000794	ug/L		< 1
Be	9	-0.010349	ug/L		< 1	Be	9	-0.010761	ug/L		< 1
Ca	44	-32.132469	ug/L		< 50	Ca	44	-36.316289	ug/L		< 50
Cd	111	0.016207	ug/L		< 1	Cd	111	-0.000081	ug/L		< 1
Cd	114	0.013874	ug/L		< 1	Cd	114	0.005519	ug/L		< 1
Co	59	-0.009745	ug/L		< 1	Co	59	-0.015323	ug/L		< 1
Cr	52	0.023569	ug/L		< 1	Cr	52	-0.001542	ug/L		< 1
Cu	63	-0.107682	ug/L		< 1	Cu	63	-0.124448	ug/L		< 1
Cu	65	-0.006666	ug/L		< 1	Cu	65	-0.013073	ug/L		< 1
Fe	54	-0.513681	ug/L		< 50	Fe	54	-3.405341	ug/L		< 50
Fe	56	19.512539	ug/L		< 50	Fe	56	0.423482	ug/L		< 50
Ge	72		ug/L	88.448		Ge	72		ug/L	90.792	
Hg	200	-0.000572	ug/L		< 0.2	Hg	200	-0.001708	ug/L		< 0.2
Hg	202	0.000713	ug/L		< 0.2	Hg	202	-0.004033	ug/L		< 0.2
Ho	165		ug/L	88.745		Ho	165		ug/L	90.65	
In	115		ug/L	87.936		In	115		ug/L	88.614	
K	39	2.602435	ug/L		< 50	K	39	-0.012363	ug/L		< 50
Mg	24	0.186703	ug/L		< 50	Mg	24	0.163955	ug/L		< 50
Mg	25	0.134743	ug/L		< 50	Mg	25	0.135218	ug/L		< 50
Mn	55	-0.888502	ug/L		< 5	Mn	55	-0.947382	ug/L		< 5
Na	23	4.151505	ug/L		< 5000	Na	23	2.800332	ug/L		< 5000
Ni	60	0.009834	ug/L		< 1	Ni	60	0.007045	ug/L		< 1
Ni	62	0.002181	ug/L		< 1	Ni	62	-0.001408	ug/L		< 1
P	31	-1.880792	ug/L		< 50	P	31	-4.181301	ug/L		< 50
Pb	208	-0.001921	ug/L		< 1	Pb	208	-0.002429	ug/L		< 1
Sb	121	0.033089	ug/L		< 1	Sb	121	0.016332	ug/L		< 1
Sb	123	0.028666	ug/L		< 1	Sb	123	0.017159	ug/L		< 1
Sc	45		ug/L	92.447		Sc	45		ug/L	95.8	
Se	82	-0.040608	mg/L		< 1	Se	82	0.042951	mg/L		< 1
Tl	205	0.003836	ug/L		< 1	Tl	205	0.004001	ug/L		< 1
V	51	0.525243	ug/L		< 1	V	51	0.397102	ug/L		< 1
Zn	64	0.178892	ug/L		< 5	Zn	64	0.166021	ug/L		< 5
Zn	66	0.204984	ug/L		< 5	Zn	66	0.164793	ug/L		< 5
Zn	68	0.196825	ug/L		< 5	Zn	68	0.172732	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 11:49:03
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.145091	ug/L		< 1
Ag	109	0.142532	ug/L		< 1
Al	27	-0.871982	ug/L		< 50
As	75	-0.05243	ug/L		< 1
Ba	137	-0.000573	ug/L		< 1
Be	9	-0.005677	ug/L		< 1
Ca	44	-23.269544	ug/L		< 50
Cd	111	0.01194	ug/L		< 1
Cd	114	0.016248	ug/L		< 1
Co	59	0.00119	ug/L		< 1
Cr	52	0.013292	ug/L		< 1
Cu	63	-0.042811	ug/L		< 1
Cu	65	-0.012533	ug/L		< 1
Fe	54	4.821207	ug/L		< 50
Fe	56	5.520875	ug/L		< 50
Ge	72		ug/L	94.211	
Hg	200	-0.002224	ug/L		< 0.2
Hg	202	0.000185	ug/L		< 0.2
Ho	165		ug/L	92.528	
In	115		ug/L	91.284	
K	39	-3.917261	ug/L		< 50
Mg	24	0.000854	ug/L		< 50
Mg	25	0.032969	ug/L		< 50
Mn	55	-0.808364	ug/L		< 5
Na	23	0.862686	ug/L		< 5000
Ni	60	0.003749	ug/L		< 1
Ni	62	-0.021085	ug/L		< 1
P	31	-0.559258	ug/L		< 50
Pb	208	0.000712	ug/L		< 1
Sb	121	0.015151	ug/L		< 1
Sb	123	0.014213	ug/L		< 1
Sc	45		ug/L	100.313	
Se	82	-0.19638	mg/L		< 1
Tl	205	0.025221	ug/L		< 1
V	51	0.713253	ug/L		< 1
Zn	64	-0.047186	ug/L		< 5
Zn	66	-0.049887	ug/L		< 5
Zn	68	-0.00629	ug/L		< 5

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 23:28:08
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.007428	ug/L	102.597		100
As	75	105.589959	ug/L	106.227		100
Ba	137	103.444407	ug/L	102.725		100
Be	9	96.293811	ug/L	95.34		100
Cd	111	106.839346	ug/L	106.308		100
Cd	114	105.677894	ug/L	105.152		100
Co	59	105.79631	ug/L	105.165		100
Cr	52	107.476549	ug/L	106.412		100
Cu	63	104.381455	ug/L	104.486		100
Cu	65	104.534691	ug/L	104.639		100
Ge	72		ug/L		89.553	
Hg	200	1.098585	ug/L	109.859		1
Hg	202	1.044361	ug/L	104.436		1
Ho	165		ug/L		90.285	
In	115		ug/L		90.824	
K	39	1088.02537	ug/L	108.477		1000
Mn	55	107.399963	ug/L	106.972		100
Ni	60	106.925168	ug/L	106.077		100
Ni	62	107.747324	ug/L	106.892		100
Pb	208	102.633645	ug/L	102.634		100
Sb	121	102.268699	ug/L	101.963		100
Sb	123	101.513876	ug/L	101.21		100
Sc	45		ug/L		89.05	
Se	82	97.459974	mg/L	97.265		100
V	51	105.472792	ug/L	105.053		100
Zn	64	103.406949	ug/L	102.688		100
Zn	66	102.23294	ug/L	101.522		100
Zn	68	102.049895	ug/L	101.341		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 00:58:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	100.61261	ug/L	100.212		100
As	75	103.648631	ug/L	104.274		100
Ba	137	102.121778	ug/L	101.412		100
Be	9	90.179277	ug/L	89.286		100
Cd	111	104.628519	ug/L	104.108		100
Cd	114	103.551763	ug/L	103.037		100
Co	59	102.778971	ug/L	102.166		100
Cr	52	103.297907	ug/L	102.275		100
Cu	63	100.164966	ug/L	100.265		100
Cu	65	99.555259	ug/L	99.655		100
Ge	72		ug/L		88.501	
Hg	200	1.081424	ug/L	108.142		1
Hg	202	1.059628	ug/L	105.963		1
Ho	165		ug/L		89.109	
In	115		ug/L		89.79	
K	39	1068.99571	ug/L	106.58		1000
Mn	55	104.801425	ug/L	104.384		100
Ni	60	103.681839	ug/L	102.859		100
Ni	62	104.073164	ug/L	103.247		100
Pb	208	102.473459	ug/L	102.473		100
Sb	121	101.17482	ug/L	100.872		100
Sb	123	100.035699	ug/L	99.736		100
Sc	45		ug/L		90.436	
Se	82	92.711649	mg/L	92.527		100
V	51	102.529886	ug/L	102.121		100
Zn	64	99.485537	ug/L	98.794		100
Zn	66	99.193944	ug/L	98.504		100
Zn	68	97.359045	ug/L	96.682		100

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 23:34:32
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.304042	ug/L	107.263		15.2
Ag	109	16.314353	ug/L	107.331		15.2
Al	27	269.911922	ug/L	103.415		261
Ba	137	219.83785	ug/L	101.777		216
Be	9	67.466267	ug/L	95.157		70.9
Cd	111	10.011127	ug/L	104.391		9.59
Cd	114	9.916993	ug/L	103.41		9.59
Ge	72		ug/L		90.389	
Ho	165		ug/L		89.905	
In	115		ug/L		91.463	
Sc	45		ug/L		90.956	
Se	82	113.030576	mg/L	97.44		116
Tl	205	54.025913	ug/L	104.297		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 01:05:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.590443	ug/L	109.148		15.2
Ag	109	16.554947	ug/L	108.914		15.2
Al	27	262.923448	ug/L	100.737		261
Ba	137	222.078672	ug/L	102.814		216
Be	9	64.983236	ug/L	91.655		70.9
Cd	111	10.373649	ug/L	108.172		9.59
Cd	114	10.193759	ug/L	106.296		9.59
Ge	72		ug/L		88.591	
Ho	165		ug/L		86.849	
In	115		ug/L		87.367	
Sc	45		ug/L		90.613	
Se	82	110.516485	mg/L	95.273		116
Tl	205	54.474661	ug/L	105.163		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Thursday, September 06, 2012 23:40:57
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11036.2793	ug/L	110.363		10000
Fe	54	10311.5979	ug/L	103.116		10000
Fe	56	10409.3229	ug/L	104.093		10000
Ge	72		ug/L		93.123	
Ho	165		ug/L		90.258	
In	115		ug/L		90.773	
K	39	10617.0211	ug/L	106.17		10000
Sc	45		ug/L		92.672	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 01:11:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11160.3026	ug/L	111.603		10000
Fe	54	10079.6803	ug/L	100.797		10000
Fe	56	10408.4177	ug/L	104.084		10000
Ge	72		ug/L		90.429	
Ho	165		ug/L		88.753	
In	115		ug/L		89.094	
K	39	10253.9056	ug/L	102.539		10000
Sc	45		ug/L		91.148	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 02:29:53
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	106.601418	ug/L	106.177		100
As	75	106.309878	ug/L	106.952		100
Ba	137	104.413422	ug/L	103.688		100
Be	9	89.399335	ug/L	88.514		100
Cd	111	106.467961	ug/L	105.938		100
Cd	114	105.967782	ug/L	105.441		100
Co	59	106.719612	ug/L	106.083		100
Cr	52	109.03291	ug/L	107.953		100
Cu	63	103.481252	ug/L	103.585		100
Cu	65	104.201341	ug/L	104.306		100
Ge	72		ug/L		86.24	
Hg	200	1.096861	ug/L	109.686		1
Hg	202	1.088696	ug/L	108.87		1
Ho	165		ug/L		86.887	
In	115		ug/L		87.408	
K	39	1121.47071	ug/L	111.812		1000
Mn	55	108.651672	ug/L	108.219		100
Ni	60	108.628985	ug/L	107.767		100
Ni	62	106.764476	ug/L	105.917		100
Pb	208	105.599981	ug/L	105.6		100
Sb	121	103.897255	ug/L	103.586		100
Sb	123	103.273626	ug/L	102.965		100
Sc	45		ug/L		85.85	
Se	82	94.01926	mg/L	93.832		100
V	51	108.404978	ug/L	107.973		100
Zn	64	103.989363	ug/L	103.266		100
Zn	66	103.025475	ug/L	102.309		100
Zn	68	102.665141	ug/L	101.951		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 04:00:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	104.456471	ug/L	104.04		100
As	75	106.564588	ug/L	107.208		100
Ba	137	104.426431	ug/L	103.701		100
Be	9	95.179802	ug/L	94.237		100
Cd	111	107.433011	ug/L	106.899		100
Cd	114	107.283156	ug/L	106.749		100
Co	59	106.084603	ug/L	105.452		100
Cr	52	108.495144	ug/L	107.421		100
Cu	63	103.879775	ug/L	103.984		100
Cu	65	103.922217	ug/L	104.026		100
Ge	72		ug/L		89.108	
Hg	200	1.106977	ug/L	110.698		1
Hg	202	1.080313	ug/L	108.031		1
Ho	165		ug/L		89.66	
In	115		ug/L		89.555	
K	39	1101.79182	ug/L	109.85		1000
Mn	55	108.553316	ug/L	108.121		100
Ni	60	106.49532	ug/L	105.65		100
Ni	62	107.545825	ug/L	106.692		100
Pb	208	106.610034	ug/L	106.61		100
Sb	121	102.726846	ug/L	102.42		100
Sb	123	102.606458	ug/L	102.3		100
Sc	45		ug/L		90.006	
Se	82	98.697544	mg/L	98.501		100
V	51	107.079747	ug/L	106.653		100
Zn	64	105.289647	ug/L	104.558		100
Zn	66	103.382013	ug/L	102.663		100
Zn	68	102.1701	ug/L	101.46		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 02:36:17
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.282255	ug/L	107.12		15.2
Ag	109	16.242201	ug/L	106.857		15.2
Al	27	268.853812	ug/L	103.009		261
Ba	137	222.3433	ug/L	102.937		216
Be	9	62.988067	ug/L	88.841		70.9
Cd	111	10.134568	ug/L	105.678		9.59
Cd	114	10.056424	ug/L	104.864		9.59
Ge	72		ug/L		87.548	
Ho	165		ug/L		88.538	
In	115		ug/L		88.091	
Sc	45		ug/L		88.507	
Se	82	109.982533	mg/L	94.813		116
Tl	205	54.629723	ug/L	105.463		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 04:07:11
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.660067	ug/L	109.606		15.2
Ag	109	16.394115	ug/L	107.856		15.2
Al	27	267.338622	ug/L	102.429		261
Ba	137	221.016375	ug/L	102.322		216
Be	9	65.250926	ug/L	92.032		70.9
Cd	111	10.220855	ug/L	106.578		9.59
Cd	114	10.023963	ug/L	104.525		9.59
Ge	72		ug/L		92.038	
Ho	165		ug/L		91.368	
In	115		ug/L		90.999	
Sc	45		ug/L		93.87	
Se	82	116.42071	mg/L	100.363		116
Tl	205	55.008623	ug/L	106.194		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 02:42:41
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11273.7819	ug/L	112.738		10000
Fe	54	10265.813	ug/L	102.658		10000
Fe	56	10615.6365	ug/L	106.156		10000
Ge	72		ug/L		88.2	
Ho	165		ug/L		87.663	
In	115		ug/L		87.215	
K	39	10511.932	ug/L	105.119		10000
Sc	45		ug/L		89.744	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 04:13:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11463.0717	ug/L	114.631		10000
Fe	54	10379.1423	ug/L	103.791		10000
Fe	56	10765.2342	ug/L	107.652		10000
Ge	72		ug/L		91.624	
Ho	165		ug/L		90.646	
In	115		ug/L		88.646	
K	39	10482.9163	ug/L	104.829		10000
Sc	45		ug/L		93.563	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 05:31:43
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	104.228591	ug/L	103.813		100
As	75	104.473638	ug/L	105.104		100
Ba	137	104.606138	ug/L	103.879		100
Be	9	95.468681	ug/L	94.523		100
Cd	111	107.566303	ug/L	107.031		100
Cd	114	106.503964	ug/L	105.974		100
Co	59	103.879631	ug/L	103.26		100
Cr	52	107.114838	ug/L	106.054		100
Cu	63	99.921223	ug/L	100.021		100
Cu	65	100.398023	ug/L	100.499		100
Ge	72		ug/L		89.187	
Hg	200	1.104112	ug/L	110.411		1
Hg	202	1.089351	ug/L	108.935		1
Ho	165		ug/L		90.133	
In	115		ug/L		88.269	
K	39	1073.48918	ug/L	107.028		1000
Mn	55	107.304683	ug/L	106.877		100
Ni	60	103.833917	ug/L	103.01		100
Ni	62	104.144994	ug/L	103.318		100
Pb	208	105.355177	ug/L	105.355		100
Sb	121	102.492115	ug/L	102.186		100
Sb	123	101.744848	ug/L	101.441		100
Sc	45		ug/L		90.838	
Se	82	98.328944	mg/L	98.133		100
V	51	104.007884	ug/L	103.594		100
Zn	64	103.193301	ug/L	102.476		100
Zn	66	100.399726	ug/L	99.702		100
Zn	68	100.632213	ug/L	99.933		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 07:02:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.76198	ug/L	103.349		100
As	75	105.370189	ug/L	106.006		100
Ba	137	104.59202	ug/L	103.865		100
Be	9	86.532448	ug/L	85.676		100
Cd	111	106.706207	ug/L	106.175		100
Cd	114	106.33957	ug/L	105.811		100
Co	59	103.208204	ug/L	102.593		100
Cr	52	105.890694	ug/L	104.842		100
Cu	63	100.326555	ug/L	100.427		100
Cu	65	99.903214	ug/L	100.003		100
Ge	72		ug/L		88.795	
Hg	200	1.064265	ug/L	106.426		1
Hg	202	1.065636	ug/L	106.564		1
Ho	165		ug/L		90.245	
In	115		ug/L		89.737	
K	39	1076.16884	ug/L	107.295		1000
Mn	55	107.042363	ug/L	106.616		100
Ni	60	104.117455	ug/L	103.291		100
Ni	62	103.566308	ug/L	102.744		100
Pb	208	106.867845	ug/L	106.868		100
Sb	121	102.407044	ug/L	102.101		100
Sb	123	101.434122	ug/L	101.131		100
Sc	45		ug/L		91.818	
Se	82	97.032447	mg/L	96.839		100
V	51	103.964112	ug/L	103.55		100
Zn	64	100.960909	ug/L	100.259		100
Zn	66	99.791743	ug/L	99.098		100
Zn	68	98.622357	ug/L	97.937		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 05:38:07
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.553142	ug/L	108.902		15.2
Ag	109	16.430585	ug/L	108.096		15.2
Al	27	267.249222	ug/L	102.394		261
Ba	137	222.346136	ug/L	102.938		216
Be	9	65.709324	ug/L	92.679		70.9
Cd	111	10.173381	ug/L	106.083		9.59
Cd	114	10.141181	ug/L	105.747		9.59
Ge	72		ug/L		90.509	
Ho	165		ug/L		91.867	
In	115		ug/L		89.489	
Sc	45		ug/L		94.455	
Se	82	114.420081	mg/L	98.638		116
Tl	205	54.483681	ug/L	105.181		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 07:09:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.574182	ug/L	109.041		15.2
Ag	109	16.531621	ug/L	108.761		15.2
Al	27	271.219832	ug/L	103.916		261
Ba	137	225.015531	ug/L	104.174		216
Be	9	62.546827	ug/L	88.218		70.9
Cd	111	10.237591	ug/L	106.753		9.59
Cd	114	10.234177	ug/L	106.717		9.59
Ge	72		ug/L		89.987	
Ho	165		ug/L		91.033	
In	115		ug/L		89.458	
Sc	45		ug/L		92.005	
Se	82	114.565879	mg/L	98.764		116
Tl	205	55.246364	ug/L	106.653		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 05:44:32
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11137.7215	ug/L	111.377		10000
Fe	54	10186.9393	ug/L	101.869		10000
Fe	56	10278.9623	ug/L	102.79		10000
Ge	72		ug/L		91.783	
Ho	165		ug/L		91.646	
In	115		ug/L		88.663	
K	39	10335.2433	ug/L	103.352		10000
Sc	45		ug/L		95.545	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 07:15:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11508.9265	ug/L	115.089		10000
Fe	54	10150.4426	ug/L	101.504		10000
Fe	56	10266.6016	ug/L	102.666		10000
Ge	72		ug/L		93.113	
Ho	165		ug/L		91.998	
In	115		ug/L		90.103	
K	39	10397.0268	ug/L	103.97		10000
Sc	45		ug/L		97.955	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 08:33:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	106.181942	ug/L	105.759		100
As	75	106.316061	ug/L	106.958		100
Ba	137	104.873113	ug/L	104.144		100
Be	9	90.110849	ug/L	89.219		100
Cd	111	108.423699	ug/L	107.884		100
Cd	114	108.028516	ug/L	107.491		100
Co	59	104.835838	ug/L	104.211		100
Cr	52	107.4494	ug/L	106.386		100
Cu	63	101.290825	ug/L	101.392		100
Cu	65	101.591682	ug/L	101.693		100
Ge	72		ug/L		88.029	
Hg	200	1.073133	ug/L	107.313		1
Hg	202	1.072306	ug/L	107.231		1
Ho	165		ug/L		88.096	
In	115		ug/L		87.477	
K	39	1076.45949	ug/L	107.324		1000
Mn	55	107.808813	ug/L	107.379		100
Ni	60	106.144798	ug/L	105.302		100
Ni	62	104.585018	ug/L	103.755		100
Pb	208	109.279761	ug/L	109.28		100
Sb	121	103.037634	ug/L	102.729		100
Sb	123	102.516499	ug/L	102.21		100
Sc	45		ug/L		90.612	
Se	82	98.041145	mg/L	97.845		100
V	51	104.806395	ug/L	104.389		100
Zn	64	102.890704	ug/L	102.175		100
Zn	66	101.495228	ug/L	100.79		100
Zn	68	100.237678	ug/L	99.541		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 09:47:28
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.368695	ug/L	96.981		100
As	75	102.538533	ug/L	103.157		100
Ba	137	100.973954	ug/L	100.272		100
Be	9	96.125473	ug/L	95.174		100
Cd	111	105.649708	ug/L	105.124		100
Cd	114	104.473337	ug/L	103.954		100
Co	59	96.21639	ug/L	95.643		100
Cr	52	100.249329	ug/L	99.257		100
Cu	63	94.48324	ug/L	94.578		100
Cu	65	94.312223	ug/L	94.407		100
Ge	72		ug/L		92.687	
Hg	200	1.066315	ug/L	106.632		1
Hg	202	1.01789	ug/L	101.789		1
Ho	165		ug/L		92.087	
In	115		ug/L		90.273	
K	39	1023.43502	ug/L	102.037		1000
Mn	55	100.944	ug/L	100.542		100
Ni	60	97.295169	ug/L	96.523		100
Ni	62	97.937575	ug/L	97.16		100
Pb	208	106.519004	ug/L	106.519		100
Sb	121	99.651112	ug/L	99.353		100
Sb	123	97.804555	ug/L	97.512		100
Sc	45		ug/L		99.763	
Se	82	100.840949	mg/L	100.64		100
V	51	97.667662	ug/L	97.279		100
Zn	64	96.549555	ug/L	95.878		100
Zn	66	94.324562	ug/L	93.669		100
Zn	68	93.828327	ug/L	93.176		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 08:40:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.164548	ug/L	112.925		15.2
Ag	109	16.889604	ug/L	111.116		15.2
Al	27	264.078595	ug/L	101.18		261
Ba	137	223.362929	ug/L	103.409		216
Be	9	61.315657	ug/L	86.482		70.9
Cd	111	10.157261	ug/L	105.915		9.59
Cd	114	10.219883	ug/L	106.568		9.59
Ge	72		ug/L		90.227	
Ho	165		ug/L		90.913	
In	115		ug/L		88.184	
Sc	45		ug/L		95.61	
Se	82	113.053451	mg/L	97.46		116
Tl	205	55.144716	ug/L	106.457		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 09:53:52
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.068287	ug/L	112.291		15.2
Ag	109	16.703383	ug/L	109.891		15.2
Al	27	254.856911	ug/L	97.646		261
Ba	137	220.658568	ug/L	102.157		216
Be	9	70.613522	ug/L	99.596		70.9
Cd	111	10.197104	ug/L	106.331		9.59
Cd	114	10.176594	ug/L	106.117		9.59
Ge	72		ug/L		92.199	
Ho	165		ug/L		91.208	
In	115		ug/L		90.059	
Sc	45		ug/L		99.079	
Se	82	119.453185	mg/L	102.977		116
Tl	205	56.956529	ug/L	109.955		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 08:46:40
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11491.3733	ug/L	114.914		10000
Fe	54	10215.7226	ug/L	102.157		10000
Fe	56	10421.914	ug/L	104.219		10000
Ge	72		ug/L		91.427	
Ho	165		ug/L		91.409	
In	115		ug/L		88.746	
K	39	10338.4857	ug/L	103.385		10000
Sc	45		ug/L		95.553	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 10:00:17
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10961.0051	ug/L	109.61		10000
Fe	54	10078.0942	ug/L	100.781		10000
Fe	56	10421.0611	ug/L	104.211		10000
Ge	72		ug/L		93.797	
Ho	165		ug/L		91.344	
In	115		ug/L		88.778	
K	39	10044.1547	ug/L	100.442		10000
Sc	45		ug/L		97.378	

Eastern Analytical, Inc.

Calibration Verification (CV) Summ
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 11:55:28
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.107513	ug/L	96.721		100
As	75	104.717685	ug/L	105.35		100
Ba	137	103.782673	ug/L	103.061		100
Be	9	104.622741	ug/L	103.587		100
Cd	111	109.886805	ug/L	109.34		100
Cd	114	107.77002	ug/L	107.234		100
Co	59	102.083242	ug/L	101.474		100
Cr	52	104.935051	ug/L	103.896		100
Cu	63	100.312536	ug/L	100.413		100
Cu	65	100.371706	ug/L	100.472		100
Ge	72		ug/L		93.557	
Hg	200	1.078081	ug/L	107.808		1
Hg	202	1.083392	ug/L	108.339		1
Ho	165		ug/L		90.628	
In	115		ug/L		89.981	
K	39	1042.96433	ug/L	103.984		1000
Mn	55	105.952755	ug/L	105.531		100
Ni	60	102.744734	ug/L	101.929		100
Ni	62	104.15721	ug/L	103.331		100
Pb	208	108.834372	ug/L	108.834		100
Sb	121	101.547375	ug/L	101.244		100
Sb	123	100.741554	ug/L	100.44		100
Sc	45		ug/L		96.544	
Se	82	102.983147	mg/L	102.778		100
V	51	100.687605	ug/L	100.286		100
Zn	64	101.015194	ug/L	100.313		100
Zn	66	98.947185	ug/L	98.259		100
Zn	68	98.74251	ug/L	98.056		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 12:01:52
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.992136	ug/L	111.79		15.2
Ag	109	16.899415	ug/L	111.18		15.2
Al	27	258.778984	ug/L	99.149		261
Ba	137	222.197892	ug/L	102.869		216
Be	9	75.198168	ug/L	106.062		70.9
Cd	111	10.319093	ug/L	107.603		9.59
Cd	114	10.093319	ug/L	105.248		9.59
Ge	72		ug/L		93.776	
Ho	165		ug/L		90.782	
In	115		ug/L		90.248	
Sc	45		ug/L		95.696	
Se	82	119.529822	mg/L	103.043		116
Tl	205	56.706114	ug/L	109.471		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summ
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 12:08:17
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10877.5762	ug/L	108.776		10000
Fe	54	10051.5406	ug/L	100.515		10000
Fe	56	10372.2167	ug/L	103.722		10000
Ge	72		ug/L		93.229	
Ho	165		ug/L		90.756	
In	115		ug/L		89.494	
K	39	10392.2219	ug/L	103.922		10000
Sc	45		ug/L		96.195	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: ICSA
Sample Date/Time: Thursday, September 06, 2012 18:13:18
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	0.022329	ug/L			< 1
Ag	109	0.015076	ug/L			< 1
Al	27	51040.18	ug/L	102.08		50000
As	75	0.012524	ug/L			< 1
Ba	137	0.107142	ug/L			< 1
Be	9	0.002204	ug/L			< 1
Ca	44	52880.57	ug/L	105.76		50000
Cd	111	0.044246	ug/L			< 1
Cd	114	0.041467	ug/L			< 1
Co	59	0.115918	ug/L			< 1
Cr	52	0.584863	ug/L			< 1
Cu	63	0.918004	ug/L			< 1
Cu	65	0.61801	ug/L			< 1
Fe	54	48199.92	ug/L	96.40		50000
Fe	56	49378.62	ug/L	98.76		50000
Fe	57	54721.37	ug/L	109.44		50000
Ge	72		ug/L		98.404	
Hg	200	0.049365	ug/L			< 0.1
Hg	202	0.054148	ug/L			< 0.1
Ho	165		ug/L		95.365	
In	115		ug/L		94.572	
K	39	49382.71	ug/L	98.77		50000
Mg	24	50675.53	ug/L	101.35		50000
Mg	25	52058.35	ug/L	104.12		50000
Mn	55	-0.66903	ug/L			< 5
Na	23	51523.46	ug/L	103.05		50000
Ni	60	1.305315	ug/L			1.3
Ni	62	0.740441	ug/L			< 1
P	31	51414.75	ug/L	102.83		50000
Pb	208	0.088906	ug/L			< 1
Sb	121	0.074427	ug/L			< 1
Sb	123	0.072759	ug/L			< 1
Sc	45		ug/L		95.385	
Se	82	-0.02981	mg/L			< 1
Tl	205	-0.00279	ug/L			< 1
V	51	3.26334	ug/L			< 5
Zn	64	4.064416	ug/L			< 5
Zn	66	0.851648	ug/L			< 5
Zn	68	0.468235	ug/L			< 5

Sample ID: ICSAB
Sample Date/Time: Thursday, September 06, 2012 18:19:43
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	9.013652	ug/L	90.14		10
Ag	109	8.977228	ug/L	89.77		10
Al	27	53343.77	ug/L	106.69		50000
As	75	9.652218	ug/L	96.52		10
Ba	137	10.42693	ug/L	104.27		10
Be	9	8.870807	ug/L	88.71		10
Ca	44	53179.04	ug/L	106.36		50000
Cd	111	9.414568	ug/L	94.15		10
Cd	114	9.494782	ug/L	94.95		10
Co	59	9.546719	ug/L	95.47		10
Cr	52	10.3947	ug/L	103.95		10
Cu	63	9.446077	ug/L	94.46		10
Cu	65	9.249026	ug/L	92.49		10
Fe	54	48330.9	ug/L	96.66		50000
Fe	56	50293.03	ug/L	100.59		50000
Fe	57	54140.21	ug/L	108.28		50000
Ge	72		ug/L		96.32	
Hg	200	0.990908	ug/L	99.09		1
Hg	202	0.996032	ug/L	99.60		1
Ho	165		ug/L		95.135	
In	115		ug/L		91.844	
K	39	51332.46	ug/L	102.66		50000
Mg	24	51977.7	ug/L	103.96		50000
Mg	25	52998.19	ug/L	106.00		50000
Mn	55	8.984413	ug/L	89.84		10
Na	23	54307.54	ug/L	108.62		50000
Ni	60	10.81138	ug/L	95.06		10
Ni	62	9.836471	ug/L	98.36		10
P	31	52973.47	ug/L	105.95		50000
Pb	208	8.729211	ug/L	87.29		10
Sb	121	10.25554	ug/L	102.56		10
Sb	123	10.25176	ug/L	102.52		10
Sc	45		ug/L		92.274	
Se	82	8.660605	mg/L	86.61		10
Tl	205	8.617827	ug/L	86.21		10
V	51	13.39856	ug/L	101.35		10
Zn	64	13.09263	ug/L	90.28		10
Zn	66	9.53987	ug/L	95.40		10
Zn	68	9.227265	ug/L	92.27		10

Sample ID: 113653.01
Sample Date/Time: Friday, September 07, 2012 00:20:03
Autosampler Position: 61
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.01.49118

Do not report Fe 57 high CCVs

Main Beta Ca/Mg/Al/Mn

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5645.756	ug/L	
Be	9	0.012568	11.667	ug/L	0.002
B	10	199.181392	17223.140	ug/L	3.893
B	11	206.523300	84219.150	ug/L	2.024
C	12		928838.455	ug/L	
Na	23	20589.385162	170734495.343	ug/L	446.889
Mg	24	16775.299377	94733504.689	ug/L	78.329
Mg	25	17252.503029	13468259.072	ug/L	231.409
Al	27	138.607112	1199375.541	ug/L	0.909
Si	28		55940725.939	ug/L	
P	31	485.225907	270633.416	ug/L	7.719
S	32		98830373.032	ug/L	
Cl	35		11581808.527	ug/L	
K	39	24633.127107	345216438.530	ug/L	780.075
Ca	44	55710.801357	22151321.281	ug/L	1251.786
Sc	45		248995.928	ug/L	
Ti	47	11.402105	13017.114	ug/L	0.316
Ti	48	76.099398	857594.683	ug/L	10.829
V	51	0.868443	52295.535	ug/L	0.050
ClO	51		54137.594	ug/L	
Cr	52	0.933863	23553.286	ug/L	0.016
Cr	53	1.192028	14926.062	ug/L	0.163
Fe	54	20106.018677	21094556.693	ug/L	205.590
Mn	55	1224.277387	23301384.501	ug/L	0.439
Fe	56	19740.176102	354288203.893	ug/L	111.016
Fe	57	22512.753446	8694430.679	ug/L	27.493
Co	59	3.208425	47000.989	ug/L	0.027
Ni	60	7.398128	22627.686	ug/L	0.090
Ni	62	6.310971	2933.836	ug/L	0.064
Cu	63	1.593872	12395.569	ug/L	0.011
Zn	64	8.214826	27550.700	ug/L	0.024
Cu	65	1.555265	5465.364	ug/L	0.015
Zn	66	7.613361	15195.174	ug/L	0.000
Zn	68	8.853814	12557.793	ug/L	0.023
Ge	72		182920.649	ug/L	
As	75	80.381968	141743.280	ug/L	1.275
Se	74	205.097183	8452.937	mg/L	13.472
ArCl	77		1204.092	ug/L	
Br	79		70985.833	ug/L	

Br	81		100071.610	ug/L	
Y	89		491064.965	ug/L	
Mo	95	1.041165	4775.635	ug/L	0.001
Rh	103		425199.144	ug/L	
Ag	107	0.096024	2440.690	ug/L	0.032
Ag	109	0.091005	2293.983	ug/L	0.029
Cd	111	0.027127	172.337	ug/L	0.001
Cd	114	0.053886	567.357	ug/L	0.002
In	115		555725.891	ug/L	
Sb	121	0.180660	1965.565	ug/L	0.006
Sb	123	0.174810	1467.407	ug/L	0.003
Ba	137	51.662587	252080.992	ug/L	0.636
Ba	138	50.966592	1598382.995	ug/L	0.850
Tb	159		612755.050	ug/L	
Ho	165		573974.456	ug/L	
Hg	200	0.006478	35.000	ug/L	0.000
Hg	202	0.000724	31.334	ug/L	0.003
Tl	205	-0.003628	813.378	ug/L	0.004
Pb	208	0.371211	13358.301	ug/L	0.006
Bi	209		426538.004	ug/L	
Se	77	1.197610	1156.074	mg/L	0.240
Se	78	-2.511039	18607.981	mg/L	0.334
Se	82	0.870579	180.213	mg/L	0.077

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		112.212
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 91.221
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 88.281
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 88.609
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.02
Sample Date/Time: Friday, September 07, 2012 00:26:35
Autosampler Position: 62
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.02.49119

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5370.923	ug/L	
Be	9	0.013654	11.333	ug/L	0.014
B	10	334.885112	27456.009	ug/L	25.154
B	11	360.367438	139304.436	ug/L	29.244
C	12		1260818.050	ug/L	
Na	23	72827.356560	574582279.160	ug/L	5099.570
Mg	24	27619.191707	148502308.170	ug/L	1411.620
Mg	25	27814.250189	20656876.553	ug/L	2100.867
Al	27	25.687235	218581.805	ug/L	2.065
Si	28		39316382.358	ug/L	
P	31	34.056021	30296.777	ug/L	5.345
S	32		99895854.321	ug/L	
Cl	35		13671905.727	ug/L	
K	39	20463.730108	273089832.049	ug/L	1291.800
Ca	44	73911.861208	27941353.830	ug/L	6199.124
Sc	45		237445.314	ug/L	
Ti	47	2.314530	3314.638	ug/L	0.308
Ti	48	82.933142	890393.285	ug/L	2.293
V	51	2.224667	68800.045	ug/L	0.288
ClO	51		71205.823	ug/L	
Cr	52	1.308874	26717.339	ug/L	0.175
Cr	53	2.121376	15564.470	ug/L	0.850
Fe	54	46417.307368	46223716.113	ug/L	4048.676
Mn	55	1375.470323	24901565.755	ug/L	107.811
Fe	56	46467.373004	788295209.122	ug/L	2575.467
Fe	57	51389.648803	18857954.491	ug/L	4543.307
Co	59	10.938189	150723.166	ug/L	0.852
Ni	60	15.059667	43706.313	ug/L	1.469
Ni	62	13.691962	5978.360	ug/L	1.390
Cu	63	0.779978	6327.933	ug/L	0.098
Zn	64	2.028548	7159.851	ug/L	0.182
Cu	65	0.245470	930.057	ug/L	0.019
Zn	66	1.617837	3473.365	ug/L	0.107
Zn	68	5.015453	6953.395	ug/L	0.455
Ge	72		183482.958	ug/L	
As	75	144.012852	254615.224	ug/L	9.060
Se	74	569.561148	-4270.281	mg/L	14.775
ArCl	77		1260.767	ug/L	
Br	79		422304.474	ug/L	

Br	81		474583.592	ug/L	
Y	89		500967.152	ug/L	
Mo	95	3.477893	15883.355	ug/L	0.164
Rh	103		407248.111	ug/L	
Ag	107	-0.022603	928.057	ug/L	0.017
Ag	109	-0.018861	939.058	ug/L	0.014
Cd	111	0.013516	126.335	ug/L	0.005
Cd	114	0.025090	352.010	ug/L	0.008
In	115		534928.215	ug/L	
Sb	121	0.242679	2505.704	ug/L	0.013
Sb	123	0.238508	1895.897	ug/L	0.016
Ba	137	138.025428	647658.324	ug/L	6.620
Ba	138	148.668787	4484201.873	ug/L	6.723
Tb	159		598455.822	ug/L	
Ho	165		561429.975	ug/L	
Hg	200	0.002181	26.334	ug/L	0.001
Hg	202	0.001633	33.000	ug/L	0.003
Tl	205	-0.001671	839.381	ug/L	0.004
Pb	208	0.034346	2212.462	ug/L	0.004
Bi	209		408426.312	ug/L	
Se	77	2.010926	1277.423	mg/L	0.177
Se	78	-2.995691	18385.588	mg/L	0.343
Se	82	4.622090	965.462	mg/L	0.262

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.006
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 91.501
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
Rh
| Ag
| Ag
| Cd
| Cd
> In 84.977
| Sb
| Sb
| Ba
| Ba
Tb
> Ho 86.672
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.03
Sample Date/Time: Friday, September 07, 2012 00:33:06
Autosampler Position: 63
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.03.49120

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5873.898	ug/L	
Be	9	0.052912	23.334	ug/L	0.011
B	10	197.355890	15845.289	ug/L	0.498
B	11	217.455657	82296.673	ug/L	0.114
C	12		990753.146	ug/L	
Na	23	80362.631529	618562465.558	ug/L	961.834
Mg	24	16627.076685	87181647.276	ug/L	213.306
Mg	25	16773.891485	12155107.035	ug/L	325.768
Al	27	5.435718	51893.294	ug/L	0.417
Si	28		36634423.039	ug/L	
P	31	364.202252	191784.323	ug/L	0.080
S	32		101551939.470	ug/L	
Cl	35		12628468.248	ug/L	
K	39	8542.095008	111748693.541	ug/L	21.254
Ca	44	20774.648669	7692806.347	ug/L	236.705
Sc	45		231167.777	ug/L	
Ti	47	1.763386	2699.761	ug/L	0.013
Ti	48	14.766076	152059.240	ug/L	0.579
V	51	0.535132	43988.612	ug/L	0.008
ClO	51		45526.843	ug/L	
Cr	52	0.084294	12343.423	ug/L	0.011
Cr	53	1.169555	13823.974	ug/L	0.051
Fe	54	12192.671090	11900934.101	ug/L	234.253
Mn	55	408.024648	7222767.410	ug/L	3.211
Fe	56	12485.382159	209509069.741	ug/L	142.487
Fe	57	13957.631407	5009037.104	ug/L	95.325
Co	59	1.709076	23568.414	ug/L	0.015
Ni	60	5.662137	16097.401	ug/L	0.030
Ni	62	5.259217	2279.975	ug/L	0.022
Cu	63	0.851052	6646.496	ug/L	0.019
Zn	64	1.218118	4552.379	ug/L	0.021
Cu	65	0.151757	609.026	ug/L	0.008
Zn	66	1.009024	2298.980	ug/L	0.003
Zn	68	2.982246	4207.015	ug/L	0.007
Ge	72		177890.350	ug/L	
As	75	9.126997	15390.820	ug/L	0.057
Se	74	179.066710	9099.477	mg/L	25.353
ArCl	77		1117.080	ug/L	
Br	79		180647.463	ug/L	

Br	81		217249.076	ug/L	
Y	89		470862.450	ug/L	
Mo	95	4.885628	21637.268	ug/L	0.046
Rh	103		422666.628	ug/L	
Ag	107	-0.036821	775.374	ug/L	0.001
Ag	109	-0.051114	580.691	ug/L	0.001
Cd	111	0.013826	129.669	ug/L	0.004
Cd	114	0.015998	297.008	ug/L	0.003
In	115		544199.061	ug/L	
Sb	121	0.072125	829.379	ug/L	0.001
Sb	123	0.074623	660.474	ug/L	0.001
Ba	137	67.886055	324373.136	ug/L	0.451
Ba	138	73.248050	2249603.169	ug/L	0.182
Tb	159		606878.242	ug/L	
Ho	165		571999.572	ug/L	
Hg	200	0.004951	32.000	ug/L	0.002
Hg	202	0.001179	32.334	ug/L	0.002
Tl	205	-0.011445	623.694	ug/L	0.001
Pb	208	0.004737	1286.381	ug/L	0.000
Bi	209		402256.256	ug/L	
Se	77	0.849050	1104.067	mg/L	0.228
Se	78	-2.434896	18642.921	mg/L	0.027
Se	82	2.109861	439.614	mg/L	0.051

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.177
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.712
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 86.450
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.304
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.04
Sample Date/Time: Friday, September 07, 2012 00:39:37
Autosampler Position: 64
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.04.49121

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5274.863	ug/L	
Be	9	0.001649	7.667	ug/L	0.005
B	10	20.761636	1843.872	ug/L	2.067
B	11	21.947614	9154.367	ug/L	1.463
C	12		766299.887	ug/L	
Na	23	10816.472525	85846003.602	ug/L	565.434
Mg	24	3244.148078	17535258.875	ug/L	166.250
Mg	25	3275.266595	2447984.472	ug/L	95.564
Al	27	3.096691	34267.886	ug/L	0.100
Si	28		44056412.587	ug/L	
P	31	31.908831	29407.093	ug/L	2.575
S	32		101739496.102	ug/L	
Cl	35		11247643.173	ug/L	
K	39	2159.646777	29857686.819	ug/L	116.243
Ca	44	13193.647190	5052826.034	ug/L	439.351
Sc	45		238501.442	ug/L	
Ti	47	1.055153	2072.590	ug/L	0.086
Ti	48	9.451014	99405.460	ug/L	0.249
V	51	0.361289	42921.526	ug/L	0.045
ClO	51		44864.888	ug/L	
Cr	52	-0.053566	11137.805	ug/L	0.010
Cr	53	0.713215	13582.275	ug/L	0.218
Fe	54	17296.026763	17389001.055	ug/L	117.567
Mn	55	3749.392620	68286371.057	ug/L	89.105
Fe	56	17599.513628	302834652.649	ug/L	657.162
Fe	57	19780.782179	7317016.227	ug/L	345.810
Co	59	18.380785	254458.141	ug/L	0.333
Ni	60	26.889669	78498.960	ug/L	1.300
Ni	62	25.967315	11360.875	ug/L	1.063
Cu	63	0.359484	3535.389	ug/L	0.015
Zn	64	2.433620	8460.013	ug/L	0.107
Cu	65	0.376798	1367.116	ug/L	0.001
Zn	66	1.914669	4040.938	ug/L	0.056
Zn	68	2.656850	3912.214	ug/L	0.114
Ge	72		181319.069	ug/L	
As	75	29.784829	51846.642	ug/L	1.126
Se	74	167.410579	9704.400	mg/L	46.528
ArCl	77		1011.400	ug/L	
Br	79		20388.401	ug/L	

Br	81		46272.350	ug/L	
Y	89		485487.580	ug/L	
Mo	95	0.219855	1033.736	ug/L	0.006
Rh	103		430316.068	ug/L	
Ag	107	-0.050208	618.694	ug/L	0.004
Ag	109	-0.049649	603.026	ug/L	0.006
Cd	111	0.004821	104.002	ug/L	0.007
Cd	114	0.004519	220.338	ug/L	0.007
In	115		550010.296	ug/L	
Sb	121	0.043005	541.355	ug/L	0.002
Sb	123	0.039368	391.128	ug/L	0.001
Ba	137	18.436328	89029.048	ug/L	0.722
Ba	138	18.649517	578801.471	ug/L	0.687
Tb	159		607459.692	ug/L	
Ho	165		568952.745	ug/L	
Hg	200	-0.000100	22.334	ug/L	0.001
Hg	202	-0.003851	19.667	ug/L	0.004
Tl	205	-0.004125	793.376	ug/L	0.003
Pb	208	0.060259	3088.904	ug/L	0.005
Bi	209		393655.864	ug/L	
Se	77	0.312806	1024.058	mg/L	0.152
Se	78	-1.912466	18882.650	mg/L	0.229
Se	82	0.368277	75.074	mg/L	0.167

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.482
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 90.422
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 87.373
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 87.834
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.05
Sample Date/Time: Friday, September 07, 2012 00:46:08
Autosampler Position: 65
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.05.49122

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5494.995	ug/L	
Be	9	-0.001245	7.000	ug/L	0.010
B	10	217.486111	18595.184	ug/L	0.468
B	11	232.934808	93901.408	ug/L	2.200
C	12		936487.429	ug/L	
Na	23	36703.858734	301135846.050	ug/L	520.994
Mg	24	9890.556430	55267940.215	ug/L	120.593
Mg	25	9930.054403	7670097.219	ug/L	56.902
Al	27	3.578666	39506.264	ug/L	0.006
Si	28		43930874.066	ug/L	
P	31	321.461870	182018.898	ug/L	1.330
S	32		101081052.608	ug/L	
Cl	35		11723460.772	ug/L	
K	39	15474.196405	214939016.277	ug/L	213.796
Ca	44	27650.921666	10900654.278	ug/L	897.784
Sc	45		246371.177	ug/L	
Ti	47	1.879480	2997.524	ug/L	0.066
Ti	48	18.821833	207377.417	ug/L	3.183
V	51	0.539149	46942.030	ug/L	0.028
ClO	51		48748.506	ug/L	
Cr	52	0.116752	13542.916	ug/L	0.022
Cr	53	0.554657	13792.593	ug/L	0.087
Fe	54	16317.492813	16952340.364	ug/L	6.308
Mn	55	822.285593	15492315.589	ug/L	1.171
Fe	56	16652.737524	296403540.429	ug/L	155.776
Fe	57	18344.940900	7012637.050	ug/L	9.483
Co	59	10.248094	146919.468	ug/L	0.044
Ni	60	9.052188	27375.430	ug/L	0.100
Ni	62	8.383329	3834.847	ug/L	0.120
Cu	63	0.433637	4170.998	ug/L	0.004
Zn	64	1.680431	6331.960	ug/L	0.012
Cu	65	0.188171	772.707	ug/L	0.001
Zn	66	1.303227	3010.862	ug/L	0.020
Zn	68	2.368842	3654.104	ug/L	0.004
Ge	72		183330.189	ug/L	
As	75	237.518172	420364.965	ug/L	1.342
Se	74	59.062697	13565.762	mg/L	38.633
ArCl	77		1126.081	ug/L	
Br	79		119906.253	ug/L	

Br	81		151266.812	ug/L	
Y	89		480331.978	ug/L	
Mo	95	21.907357	99840.589	ug/L	0.101
Rh	103		425143.274	ug/L	
Ag	107	-0.060248	502.686	ug/L	0.002
Ag	109	-0.061351	471.684	ug/L	0.002
Cd	111	0.067097	293.008	ug/L	0.000
Cd	114	0.050745	546.689	ug/L	0.000
In	115		557041.686	ug/L	
Sb	121	0.056838	691.033	ug/L	0.004
Sb	123	0.060579	564.672	ug/L	0.005
Ba	137	28.152748	137733.576	ug/L	0.200
Ba	138	28.044745	881841.225	ug/L	0.187
Tb	159		617692.823	ug/L	
Ho	165		579590.382	ug/L	
Hg	200	0.007508	37.334	ug/L	0.001
Hg	202	0.004378	40.667	ug/L	0.003
Tl	205	-0.009470	679.032	ug/L	0.003
Pb	208	0.011170	1516.398	ug/L	0.003
Bi	209		433915.277	ug/L	
Se	77	0.732863	1086.732	mg/L	0.240
Se	78	-2.063166	18813.498	mg/L	0.297
Se	82	1.590172	330.835	mg/L	0.079

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		111.029
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 91.425
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 88.490
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 89.476
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.06
Sample Date/Time: Friday, September 07, 2012 01:18:19
Autosampler Position: 66
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.06.49127

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5680.443	ug/L	
Be	9	-0.004379	5.667	ug/L	0.004
B	10	222.191263	18043.068	ug/L	2.538
B	11	239.136056	91561.367	ug/L	0.803
C	12		938159.362	ug/L	
Na	23	64405.132708	501971507.756	ug/L	773.303
Mg	24	20254.853402	107520052.667	ug/L	166.529
Mg	25	20547.410584	15077283.741	ug/L	187.727
Al	27	18.534374	158244.715	ug/L	0.232
Si	28		45094958.536	ug/L	
P	31	210.840022	117884.499	ug/L	0.659
S	32		95442381.967	ug/L	
Cl	35		12612609.767	ug/L	
K	39	19506.956917	257121616.391	ug/L	259.773
Ca	44	46534.591622	17399057.774	ug/L	60.579
Sc	45		234043.882	ug/L	
Ti	47	2.147801	3112.564	ug/L	0.078
Ti	48	33.009833	347787.371	ug/L	1.533
V	51	0.786989	48025.339	ug/L	0.005
ClO	51		49687.915	ug/L	
Cr	52	0.294680	14882.950	ug/L	0.024
Cr	53	1.142133	13955.843	ug/L	0.108
Fe	54	22035.993605	21724658.266	ug/L	154.325
Mn	55	1238.077424	22148016.374	ug/L	9.133
Fe	56	22534.765206	379575225.460	ug/L	55.058
Fe	57	24618.629711	8935506.136	ug/L	75.903
Co	59	3.146188	43332.132	ug/L	0.066
Ni	60	7.368416	21182.196	ug/L	0.176
Ni	62	6.540542	2855.477	ug/L	0.170
Cu	63	0.896353	7028.119	ug/L	0.016
Zn	64	2.454549	8369.988	ug/L	0.038
Cu	65	0.330339	1191.757	ug/L	0.014
Zn	66	2.155735	4403.110	ug/L	0.025
Zn	68	4.052038	5633.801	ug/L	0.032
Ge	72		180427.665	ug/L	
As	75	106.867945	185975.786	ug/L	0.823
Se	74	236.568601	7256.555	mg/L	2.395
ArCl	77		1218.761	ug/L	
Br	79		222135.728	ug/L	

Br	81		257234.692	ug/L	
Y	89		479338.265	ug/L	
Mo	95	2.712872	12204.976	ug/L	0.021
Rh	103		416006.786	ug/L	
Ag	107	0.166254	3225.942	ug/L	0.037
Ag	109	0.166919	3119.238	ug/L	0.039
Cd	111	0.015036	132.669	ug/L	0.006
Cd	114	0.022717	341.677	ug/L	0.001
In	115		542400.352	ug/L	
Sb	121	0.095507	1061.739	ug/L	0.003
Sb	123	0.095990	823.277	ug/L	0.002
Ba	137	65.755689	313113.764	ug/L	1.340
Ba	138	67.752825	2072777.838	ug/L	5.519
Tb	159		605406.833	ug/L	
Ho	165		565163.350	ug/L	
Hg	200	0.005690	33.000	ug/L	0.002
Hg	202	0.009567	52.334	ug/L	0.001
Tl	205	-0.009133	670.698	ug/L	0.004
Pb	208	0.144762	5811.116	ug/L	0.001
Bi	209		415085.362	ug/L	
Se	77	1.313797	1173.409	mg/L	0.152
Se	78	-2.097761	18797.623	mg/L	0.366
Se	82	2.367518	493.546	mg/L	0.077

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.474
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 89.978
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 86.164
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 87.249
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07
Sample Date/Time: Friday, September 07, 2012 01:24:50
Autosampler Position: 67
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07.49128

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5444.297	ug/L	
Be	9	0.022002	14.333	ug/L	0.013
B	10	211.245026	17644.282	ug/L	1.468
B	11	224.655621	88479.729	ug/L	0.252
C	12		894192.232	ug/L	
Na	23	75949.041424	608536368.673	ug/L	749.134
Mg	24	20977.526829	114475064.074	ug/L	394.209
Mg	25	20907.884511	15770885.882	ug/L	537.685
Al	27	1.912454	24752.828	ug/L	0.167
Si	28		45190063.477	ug/L	
P	31	291.406479	162397.093	ug/L	2.907
S	32		101240675.273	ug/L	
Cl	35		13630079.775	ug/L	
K	39	18687.763940	253326129.195	ug/L	208.855
Ca	44	44858.636619	17245164.279	ug/L	423.269
Sc	45		240629.861	ug/L	
Ti	47	1.871750	2919.831	ug/L	0.037
Ti	48	29.070984	314511.789	ug/L	2.008
V	51	0.528531	45695.348	ug/L	0.008
ClO	51		47068.362	ug/L	
Cr	52	0.111634	13166.297	ug/L	0.011
Cr	53	0.998495	14134.789	ug/L	0.013
Fe	54	14851.346480	15075634.447	ug/L	50.145
Mn	55	1525.924890	28060880.125	ug/L	8.246
Fe	56	15079.829052	262493616.587	ug/L	618.083
Fe	57	17095.885678	6382802.283	ug/L	530.711
Co	59	0.799838	11865.858	ug/L	0.019
Ni	60	6.500626	19223.830	ug/L	0.127
Ni	62	5.661239	2549.716	ug/L	0.109
Cu	63	0.807128	6617.474	ug/L	0.031
Zn	64	1.181592	4624.081	ug/L	0.002
Cu	65	0.150204	629.028	ug/L	0.003
Zn	66	0.910584	2209.624	ug/L	0.024
Zn	68	4.383005	6229.863	ug/L	0.017
Ge	72		178189.481	ug/L	
As	75	87.941636	151083.876	ug/L	1.260
Se	74	156.850786	9886.476	mg/L	74.840
ArCl	77		1222.428	ug/L	
Br	79		240554.381	ug/L	

Br	81		281986.157	ug/L	
Y	89		481455.002	ug/L	
Mo	95	2.025417	9009.552	ug/L	0.027
Rh	103		423802.808	ug/L	
Ag	107	0.008651	1319.110	ug/L	0.017
Ag	109	0.007366	1257.101	ug/L	0.022
Cd	111	0.002869	97.001	ug/L	0.000
Cd	114	0.007567	238.339	ug/L	0.000
In	115		541511.031	ug/L	
Sb	121	0.072888	833.047	ug/L	0.001
Sb	123	0.073379	647.388	ug/L	0.004
Ba	137	130.482061	620247.698	ug/L	2.405
Ba	138	138.717623	4238819.765	ug/L	0.733
Tb	159		600667.614	ug/L	
Ho	165		563432.971	ug/L	
Hg	200	0.056534	127.335	ug/L	0.000
Hg	202	0.037956	121.002	ug/L	0.002
Tl	205	-0.010321	640.362	ug/L	0.003
Pb	208	0.029808	2076.778	ug/L	0.003
Bi	209		396146.111	ug/L	
Se	77	1.805362	1246.752	mg/L	0.392
Se	78	-2.557361	18586.725	mg/L	0.094
Se	82	2.592325	540.601	mg/L	0.075

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		108.442
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.861
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 86.023
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 86.981
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07 MS
Sample Date/Time: Friday, September 07, 2012 01:31:21
Autosampler Position: 68
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MS.49129

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5672.436	ug/L	
Be	9	748.098998	247849.644	ug/L	21.686
B	10	203.356446	17485.642	ug/L	1.670
B	11	219.109706	88818.656	ug/L	3.203
C	12		1346565.385	ug/L	
Na	23	84306.597307	695222237.627	ug/L	69.620
Mg	24	30716.955979	172523604.508	ug/L	53.843
Mg	25	30557.334687	23722504.959	ug/L	339.164
Al	27	10069.882979	86001455.519	ug/L	66.983
Si	28		45060720.758	ug/L	
P	31	9688.615095	5113216.642	ug/L	12.978
S	32		107629572.440	ug/L	
Cl	35		16903308.083	ug/L	
K	39	27781.703925	387065595.626	ug/L	3.860
Ca	44	54563.515261	21578159.875	ug/L	541.913
Sc	45		247645.392	ug/L	
Ti	47	22.710011	24732.525	ug/L	1.008
Ti	48	59.294268	663483.908	ug/L	1.865
V	51	953.320037	14009794.038	ug/L	10.142
ClO	51		14567278.860	ug/L	
Cr	52	929.862316	11179567.633	ug/L	7.319
Cr	53	758.672560	1179597.997	ug/L	5.376
Fe	54	23197.745318	24194592.372	ug/L	12.643
Mn	55	2448.636510	46328267.132	ug/L	13.413
Fe	56	23964.323726	426831335.878	ug/L	12.879
Fe	57	27121.835872	10415472.614	ug/L	193.859
Co	59	886.923254	12716595.318	ug/L	7.211
Ni	60	864.083466	2618147.368	ug/L	11.902
Ni	62	785.279741	354992.490	ug/L	19.096
Cu	63	796.159263	5583341.597	ug/L	10.195
Zn	64	836.876366	2694923.179	ug/L	10.930
Cu	65	785.541395	2677112.572	ug/L	8.285
Zn	66	741.676897	1420995.982	ug/L	10.294
Zn	68	749.407369	1019182.862	ug/L	14.607
Ge	72		182960.352	ug/L	
As	75	1075.940902	1901182.284	ug/L	21.343
Se	74	-165.019181	21354.217	mg/L	2.481
ArCl	77		135912.789	ug/L	
Br	79		218458.990	ug/L	

Br	81		257540.034	ug/L	
Y	89		484462.131	ug/L	
Mo	95	1114.834335	5068217.274	ug/L	6.260
Rh	103		420457.118	ug/L	
Ag	107	77.484683	955576.718	ug/L	8.365
Ag	109	67.115606	797786.536	ug/L	0.019
Cd	111	1092.200774	3254452.138	ug/L	22.857
Cd	114	1073.569691	7425615.068	ug/L	16.411
In	115		551802.231	ug/L	
Sb	121	1113.430022	11397745.479	ug/L	15.560
Sb	123	1106.925122	8700025.486	ug/L	16.866
Ba	137	1212.399271	5872300.645	ug/L	15.003
Ba	138	1213.414138	37777867.668	ug/L	16.093
Tb	159		608986.262	ug/L	
Ho	165		576406.768	ug/L	
Hg	200	1.076371	2068.256	ug/L	0.012
Hg	202	1.020031	2558.052	ug/L	0.019
Tl	205	1042.884098	25145389.883	ug/L	7.651
Pb	208	1022.648719	33819096.855	ug/L	1.221
Bi	209		417694.176	ug/L	
Se	77	881.570969	132510.880	mg/L	13.849
Se	78	925.875067	444618.625	mg/L	2.105
Se	82	895.467979	187433.225	mg/L	2.033

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		111.603
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	91.241
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	87.658
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	88.984
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.07 MSD
Sample Date/Time: Friday, September 07, 2012 01:37:52
Autosampler Position: 69
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MSD.49130

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5302.881	ug/L	
Be	9	768.291047	243014.521	ug/L	19.463
B	10	209.736981	17211.115	ug/L	0.092
B	11	224.962641	87037.204	ug/L	1.444
C	12		1380423.934	ug/L	
Na	23	88200.910523	694274529.642	ug/L	619.755
Mg	24	32137.408694	172298909.541	ug/L	30.660
Mg	25	32272.151538	23916744.951	ug/L	147.845
Al	27	10601.514309	86429136.810	ug/L	114.464
Si	28		44912357.051	ug/L	
P	31	10000.194408	5037347.551	ug/L	88.098
S	32		108443648.031	ug/L	
Cl	35		16864830.733	ug/L	
K	39	28462.259699	378503108.241	ug/L	481.374
Ca	44	56532.733233	21340749.109	ug/L	108.405
Sc	45		236388.602	ug/L	
Ti	47	23.977499	24877.241	ug/L	0.214
Ti	48	66.327300	708962.197	ug/L	0.726
V	51	1007.391756	14130295.088	ug/L	11.876
ClO	51		14578894.275	ug/L	
Cr	52	983.463738	11286568.056	ug/L	6.710
Cr	53	813.359825	1206305.199	ug/L	2.418
Fe	54	24584.253516	24470579.812	ug/L	493.421
Mn	55	2576.943575	46540106.488	ug/L	19.122
Fe	56	25399.492297	431582541.071	ug/L	43.854
Fe	57	28589.549235	10478776.333	ug/L	172.622
Co	59	927.286404	12691594.888	ug/L	7.847
Ni	60	890.425906	2575552.416	ug/L	11.377
Ni	62	814.479210	351511.690	ug/L	9.288
Cu	63	833.201305	5577963.731	ug/L	1.348
Zn	64	880.566603	2706905.529	ug/L	8.650
Cu	65	830.189597	2700843.035	ug/L	8.062
Zn	66	777.031295	1421167.280	ug/L	7.667
Zn	68	780.470834	1013295.757	ug/L	8.423
Ge	72		174876.675	ug/L	
As	75	1118.576690	1889570.566	ug/L	8.770
Se	74	-201.916898	21643.996	mg/L	33.598
ArCl	77		136972.886	ug/L	
Br	79		221108.757	ug/L	

Br	81		259682.328	ug/L	
Y	89		463398.906	ug/L	
Mo	95	1173.782333	5100551.082	ug/L	9.760
Rh	103		398206.585	ug/L	
Ag	107	86.901142	1013214.758	ug/L	3.725
Ag	109	93.332353	1050055.807	ug/L	1.879
Cd	111	1155.257414	3259171.092	ug/L	16.509
Cd	114	1137.935887	7451338.531	ug/L	22.179
In	115		522410.080	ug/L	
Sb	121	1178.860466	11424291.348	ug/L	22.686
Sb	123	1167.144655	8684596.293	ug/L	20.051
Ba	137	1288.332262	5907270.977	ug/L	27.934
Ba	138	1285.455340	37888940.055	ug/L	17.858
Tb	159		583407.669	ug/L	
Ho	165		549454.116	ug/L	
Hg	200	1.126415	2062.255	ug/L	0.013
Hg	202	1.096318	2618.737	ug/L	0.005
Tl	205	1109.042100	25489213.720	ug/L	11.816
Pb	208	1083.137977	34142641.713	ug/L	11.812
Bi	209		383239.149	ug/L	
Se	77	894.392582	134423.909	mg/L	7.259
Se	78	935.756272	449152.836	mg/L	1.498
Se	82	890.837329	186463.958	mg/L	0.530

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.530
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 87.209
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 82.989
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 84.823
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07 MS
Sample Date/Time: Friday, September 07, 2012 01:44:23
Autosampler Position: 70
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MS.49131

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5422.952	ug/L	
Be	9	741.649746	232337.281	ug/L	21.402
B	10	190.241106	15472.980	ug/L	7.118
B	11	208.830392	80069.536	ug/L	4.954
C	12		1386757.284	ug/L	
Na	23	81488.733180	635343432.800	ug/L	1386.950
Mg	24	30097.366843	159856425.732	ug/L	113.969
Mg	25	30025.914568	22041053.718	ug/L	428.853
Al	27	10551.295952	85213621.561	ug/L	21.951
Si	28		41188047.585	ug/L	
P	31	10053.678490	5016486.655	ug/L	81.011
S	32		108974393.392	ug/L	
Cl	35		15339889.346	ug/L	
K	39	26871.730230	354083552.871	ug/L	245.842
Ca	44	52885.888499	19780389.894	ug/L	203.477
Sc	45		234175.533	ug/L	
Ti	47	23.189519	23864.187	ug/L	0.361
Ti	48	60.457939	639341.460	ug/L	6.069
V	51	985.823313	13697400.494	ug/L	14.968
ClO	51		14288047.258	ug/L	
Cr	52	969.495067	11021436.345	ug/L	7.613
Cr	53	796.417926	1170248.053	ug/L	10.227
Fe	54	23520.266895	23192225.221	ug/L	395.167
Mn	55	2395.042329	42851101.388	ug/L	3.564
Fe	56	23619.906187	397863409.994	ug/L	78.477
Fe	57	26850.550302	9749219.589	ug/L	266.457
Co	59	907.081180	12297880.926	ug/L	8.671
Ni	60	876.889301	2512625.175	ug/L	2.124
Ni	62	801.239189	342526.990	ug/L	9.901
Cu	63	819.782058	5436137.086	ug/L	10.848
Zn	64	869.319407	2647140.721	ug/L	7.603
Cu	65	811.793407	2616231.396	ug/L	2.167
Zn	66	770.616448	1396025.178	ug/L	14.361
Zn	68	771.339919	991915.942	ug/L	14.374
Ge	72		175719.328	ug/L	
As	75	1089.730545	1849663.856	ug/L	10.322
Se	74	-199.334947	21657.848	mg/L	83.527
ArCl	77		132228.681	ug/L	
Br	79		217558.337	ug/L	

Br	81		254301.316	ug/L	
Y	89		461926.405	ug/L	
Mo	95	1132.840448	4946501.056	ug/L	12.783
Rh	103		406020.385	ug/L	
Ag	107	884.390037	10470035.800	ug/L	26.426
Ag	109	887.439348	10132793.432	ug/L	4.831
Cd	111	1113.707796	3192636.356	ug/L	7.346
Cd	114	1092.091021	7266832.287	ug/L	5.093
In	115		530782.413	ug/L	
Sb	121	1133.730710	11164563.405	ug/L	10.004
Sb	123	1117.275741	8447782.635	ug/L	10.273
Ba	137	1222.368268	5695435.644	ug/L	21.545
Ba	138	1222.797348	36623442.022	ug/L	6.622
Tb	159		589239.390	ug/L	
Ho	165		551980.064	ug/L	
Hg	200	1.118942	2057.587	ug/L	0.033
Hg	202	1.096402	2631.407	ug/L	0.022
Tl	205	1082.608639	24996427.106	ug/L	5.588
Pb	208	1057.792873	33496425.822	ug/L	10.137
Bi	209		407569.673	ug/L	
Se	77	869.684623	130737.395	mg/L	7.269
Se	78	917.129478	440605.516	mg/L	2.444
Se	82	883.133791	184851.489	mg/L	18.380

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.533
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 87.630
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 84.319
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 85.213
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.07 MSD
Sample Date/Time: Friday, September 07, 2012 01:50:54
Autosampler Position: 71
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MSD.49132

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5434.958	ug/L	
Be	9	703.583925	229518.868	ug/L	15.187
B	10	182.071939	15427.901	ug/L	3.641
B	11	201.801740	80587.767	ug/L	5.170
C	12		1372603.379	ug/L	
Na	23	79102.252968	642134250.703	ug/L	1952.404
Mg	24	29493.284524	163075883.309	ug/L	564.862
Mg	25	29736.515220	22730003.068	ug/L	230.197
Al	27	10365.651398	87171951.685	ug/L	69.949
Si	28		42120076.001	ug/L	
P	31	9843.037623	5113589.158	ug/L	224.625
S	32		111939384.395	ug/L	
Cl	35		15274939.075	ug/L	
K	39	26410.227593	362353763.042	ug/L	152.887
Ca	44	52114.037063	20295070.526	ug/L	33.431
Sc	45		243829.697	ug/L	
Ti	47	22.938478	24588.121	ug/L	0.661
Ti	48	53.850822	592773.329	ug/L	4.236
V	51	953.355541	13793747.054	ug/L	15.327
ClO	51		14113625.943	ug/L	
Cr	52	925.526681	10955662.220	ug/L	10.726
Cr	53	752.624114	1152072.735	ug/L	20.993
Fe	54	22038.294733	22630504.171	ug/L	510.044
Mn	55	2297.115480	42788822.436	ug/L	40.808
Fe	56	22446.339448	393931217.645	ug/L	180.047
Fe	57	25286.311754	9559457.382	ug/L	642.061
Co	59	872.728168	12320542.919	ug/L	4.068
Ni	60	849.239034	2533531.359	ug/L	10.272
Ni	62	770.434667	342924.516	ug/L	14.722
Cu	63	786.361770	5429331.332	ug/L	15.503
Zn	64	835.908956	2650117.035	ug/L	18.572
Cu	65	775.249388	2601321.720	ug/L	7.766
Zn	66	734.839505	1386117.198	ug/L	15.362
Zn	68	734.296087	983211.649	ug/L	16.979
Ge	72		175868.846	ug/L	
As	75	1078.860818	1832768.627	ug/L	2.891
Se	74	-102.853649	18444.228	mg/L	20.488
ArCl	77		131151.574	ug/L	
Br	79		214216.523	ug/L	

Br	81		250466.384	ug/L	
Y	89		466649.251	ug/L	
Mo	95	1131.355483	4944176.993	ug/L	12.138
Rh	103		400306.549	ug/L	
Ag	107	870.258689	10302237.285	ug/L	22.454
Ag	109	854.742130	9758999.319	ug/L	11.570
Cd	111	1111.330573	3185704.607	ug/L	7.791
Cd	114	1091.463355	7262398.649	ug/L	4.508
In	115		530762.618	ug/L	
Sb	121	1130.753904	11135053.357	ug/L	1.082
Sb	123	1122.883631	8489943.067	ug/L	5.949
Ba	137	1217.665322	5673597.984	ug/L	9.663
Ba	138	1217.025476	36450014.441	ug/L	7.241
Tb	159		593140.018	ug/L	
Ho	165		561217.815	ug/L	
Hg	200	1.170756	2188.285	ug/L	0.016
Hg	202	1.093412	2667.751	ug/L	0.024
Tl	205	1074.784595	25231523.982	ug/L	13.610
Pb	208	1048.161068	33748762.270	ug/L	9.818
Bi	209		407295.489	ug/L	
Se	77	865.097636	130053.000	mg/L	5.115
Se	78	903.635188	434413.361	mg/L	9.870
Se	82	869.131853	181920.668	mg/L	1.947

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		109.884
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 87.704
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 84.315
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 86.639
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.08
Sample Date/Time: Friday, September 07, 2012 02:17:01
Autosampler Position: 75
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.08.49136

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5218.831	ug/L	
Be	9	0.012541	11.333	ug/L	0.003
B	10	199.522372	16771.625	ug/L	2.201
B	11	215.812239	85522.578	ug/L	0.498
C	12		835717.986	ug/L	
Na	23	73544.306620	592758664.711	ug/L	1472.766
Mg	24	20419.536160	112094701.765	ug/L	458.374
Mg	25	21128.326189	16032675.424	ug/L	740.869
Al	27	2.339203	28467.356	ug/L	0.076
Si	28		44763993.344	ug/L	
P	31	285.580144	160361.353	ug/L	4.382
S	32		103814590.746	ug/L	
Cl	35		13332685.877	ug/L	
K	39	17903.478412	244150271.319	ug/L	96.103
Ca	44	44624.450228	17256997.450	ug/L	222.752
Sc	45		242045.226	ug/L	
Ti	47	1.943726	3010.529	ug/L	0.088
Ti	48	28.884279	314421.654	ug/L	1.449
V	51	0.455536	44918.824	ug/L	0.044
ClO	51		47001.342	ug/L	
Cr	52	0.163113	13848.653	ug/L	0.003
Cr	53	0.813148	13939.153	ug/L	0.194
Fe	54	14515.715542	14823357.309	ug/L	207.865
Mn	55	1524.270295	28196078.298	ug/L	0.140
Fe	56	15214.676540	266411848.489	ug/L	70.317
Fe	57	16838.808362	6324935.236	ug/L	15.082
Co	59	0.800165	11941.625	ug/L	0.015
Ni	60	6.665855	19828.133	ug/L	0.065
Ni	62	5.733182	2596.730	ug/L	0.014
Cu	63	0.768743	6394.312	ug/L	0.007
Zn	64	1.002950	4089.118	ug/L	0.012
Cu	65	0.146108	619.027	ug/L	0.010
Zn	66	0.758209	1937.559	ug/L	0.026
Zn	68	3.967457	5714.186	ug/L	0.048
Ge	72		176912.828	ug/L	
As	75	86.100325	146864.829	ug/L	0.263
Se	74	181.343154	8979.821	mg/L	39.274
ArCl	77		1214.427	ug/L	
Br	79		235236.065	ug/L	

Br	81		274984.673	ug/L	
Y	89		476486.619	ug/L	
Mo	95	2.066940	9128.339	ug/L	0.017
Rh	103		410853.951	ug/L	
Ag	107	0.240336	4062.286	ug/L	0.038
Ag	109	0.235901	3867.863	ug/L	0.027
Cd	111	0.012574	123.669	ug/L	0.005
Cd	114	0.017997	305.008	ug/L	0.002
In	115		534365.110	ug/L	
Sb	121	0.113078	1220.427	ug/L	0.001
Sb	123	0.103507	868.530	ug/L	0.004
Ba	137	130.323162	611385.730	ug/L	0.769
Ba	138	139.247282	4199002.648	ug/L	0.113
Tb	159		601860.656	ug/L	
Ho	165		563781.426	ug/L	
Hg	200	0.056841	128.002	ug/L	0.004
Hg	202	0.036295	117.002	ug/L	0.002
Tl	205	0.003803	974.395	ug/L	0.002
Pb	208	0.023633	1879.094	ug/L	0.000
Bi	209		419198.312	ug/L	
Se	77	1.260173	1165.408	mg/L	0.455
Se	78	-4.776510	17568.419	mg/L	0.126
Se	82	2.631795	548.863	mg/L	0.122

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		109.079
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.225
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 84.888
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 87.035
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.09
Sample Date/Time: Friday, September 07, 2012 02:49:12
Autosampler Position: 76
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.09.49141

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5541.689	ug/L	
Be	9	0.014940	12.333	ug/L	0.000
B	10	5.917795	648.030	ug/L	0.306
B	11	6.030424	3095.224	ug/L	0.206
C	12		656156.799	ug/L	
Na	23	8018.681954	65790541.875	ug/L	258.363
Mg	24	5706.313374	31885400.761	ug/L	161.976
Mg	25	5767.012730	4453393.264	ug/L	230.203
Al	27	114.144345	978678.540	ug/L	4.342
Si	28		42732551.817	ug/L	
P	31	21.664350	24990.224	ug/L	5.453
S	32		98790467.366	ug/L	
Cl	35		10851686.607	ug/L	
K	39	2393.990465	34099822.998	ug/L	93.970
Ca	44	6931.253810	2762111.087	ug/L	288.675
Sc	45		246508.012	ug/L	
Ti	47	8.592364	9959.552	ug/L	0.451
Ti	48	13.584534	148923.638	ug/L	0.188
V	51	0.505495	46439.442	ug/L	0.125
ClO	51		48368.817	ug/L	
Cr	52	0.137543	13785.870	ug/L	0.052
Cr	53	0.380547	13529.197	ug/L	0.160
Fe	54	3973.319706	4179294.331	ug/L	250.102
Mn	55	419.225053	7906408.187	ug/L	18.264
Fe	56	4015.792988	74711654.629	ug/L	234.932
Fe	57	3938.096186	1515037.059	ug/L	217.460
Co	59	0.590899	9165.377	ug/L	0.034
Ni	60	0.883856	2750.444	ug/L	0.054
Ni	62	0.757943	405.346	ug/L	0.057
Cu	63	0.338312	3505.711	ug/L	0.016
Zn	64	2.687167	9551.755	ug/L	0.156
Cu	65	0.384036	1436.128	ug/L	0.022
Zn	66	2.328554	4964.071	ug/L	0.085
Zn	68	2.839251	4287.721	ug/L	0.185
Ge	72		184376.313	ug/L	
As	75	1.197020	1826.963	ug/L	0.024
Se	74	55.053693	13811.192	mg/L	163.562
ArCl	77		966.728	ug/L	
Br	79		14498.399	ug/L	

Br	81		41135.654	ug/L	
Y	89		499106.292	ug/L	
Mo	95	0.191076	919.056	ug/L	0.007
Rh	103		443863.053	ug/L	
Ag	107	0.325880	5361.341	ug/L	0.114
Ag	109	0.308220	4953.445	ug/L	0.124
Cd	111	0.006419	112.335	ug/L	0.001
Cd	114	0.008058	252.339	ug/L	0.004
In	115		566766.313	ug/L	
Sb	121	0.063890	777.041	ug/L	0.001
Sb	123	0.060481	572.927	ug/L	0.004
Ba	137	11.788383	58653.537	ug/L	0.646
Ba	138	11.836481	378502.883	ug/L	0.570
Tb	159		617150.054	ug/L	
Ho	165		585401.160	ug/L	
Hg	200	0.004017	31.000	ug/L	0.003
Hg	202	0.002473	36.334	ug/L	0.001
Tl	205	0.003020	991.731	ug/L	0.004
Pb	208	0.156700	6419.291	ug/L	0.003
Bi	209		456195.821	ug/L	
Se	77	-0.187683	949.383	mg/L	0.025
Se	78	-3.540490	18135.595	mg/L	0.233
Se	82	0.307511	62.355	mg/L	0.073

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		111.091
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	91.947
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	90.035
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	90.373
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.10
Sample Date/Time: Friday, September 07, 2012 02:55:43
Autosampler Position: 77
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.10.49142

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6032.668	ug/L	
Be	9	-0.008474	4.667	ug/L	0.006
B	10	6.545885	712.035	ug/L	0.482
B	11	6.995030	3535.056	ug/L	0.020
C	12		682276.768	ug/L	
Na	23	16941.533271	141120254.807	ug/L	466.665
Mg	24	5347.130725	30335137.145	ug/L	144.321
Mg	25	5393.678085	4230227.490	ug/L	53.745
Al	27	72.484777	634494.368	ug/L	1.700
Si	28		39643543.353	ug/L	
P	31	-2.085686	12783.625	ug/L	2.362
S	32		108475572.564	ug/L	
Cl	35		11262174.848	ug/L	
K	39	3569.253827	51132046.065	ug/L	2.410
Ca	44	7774.507524	3142578.655	ug/L	285.486
Sc	45		250178.649	ug/L	
Ti	47	4.058479	5340.956	ug/L	0.131
Ti	48	9.419505	103784.335	ug/L	1.153
V	51	0.257893	43492.246	ug/L	0.102
ClO	51		45127.862	ug/L	
Cr	52	0.116502	13748.173	ug/L	0.004
Cr	53	0.308803	13622.335	ug/L	0.178
Fe	54	102.038669	180007.793	ug/L	1.997
Mn	55	13.239263	274562.902	ug/L	0.121
Fe	56	84.222775	5885636.869	ug/L	3.850
Fe	57	122.679218	61053.748	ug/L	1.888
Co	59	0.126911	2590.728	ug/L	0.003
Ni	60	0.319816	1068.407	ug/L	0.016
Ni	62	0.475795	283.007	ug/L	0.015
Cu	63	0.336198	3545.060	ug/L	0.002
Zn	64	2.002624	7476.784	ug/L	0.046
Cu	65	0.314739	1220.427	ug/L	0.000
Zn	66	1.412427	3268.287	ug/L	0.024
Zn	68	1.867887	3021.866	ug/L	0.070
Ge	72		187320.458	ug/L	
As	75	0.201318	55.396	ug/L	0.036
Se	74	28.912455	14951.963	mg/L	14.426
ArCl	77		1049.404	ug/L	
Br	79		12482.368	ug/L	

Br	81		39564.301	ug/L	
Y	89		504618.546	ug/L	
Mo	95	2.116961	9896.818	ug/L	0.016
Rh	103		444343.068	ug/L	
Ag	107	0.032504	1689.174	ug/L	0.004
Ag	109	0.032698	1630.163	ug/L	0.014
Cd	111	-0.004088	80.668	ug/L	0.004
Cd	114	-0.004271	166.003	ug/L	0.001
In	115		568839.007	ug/L	
Sb	121	0.082820	979.729	ug/L	0.000
Sb	123	0.084605	771.399	ug/L	0.001
Ba	137	7.085426	35443.986	ug/L	0.114
Ba	138	7.098449	228129.606	ug/L	0.143
Tb	159		633126.307	ug/L	
Ho	165		598994.895	ug/L	
Hg	200	0.041609	106.002	ug/L	0.002
Hg	202	0.033711	117.335	ug/L	0.005
Tl	205	-0.000870	916.722	ug/L	0.002
Pb	208	0.063709	3369.947	ug/L	0.004
Bi	209		450185.819	ug/L	
Se	77	0.822237	1100.067	mg/L	0.063
Se	78	-3.445826	18179.034	mg/L	0.396
Se	82	0.145868	28.520	mg/L	0.043

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		112.745
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 93.415
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 90.364
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.471
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.11
Sample Date/Time: Friday, September 07, 2012 03:02:14
Autosampler Position: 78
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.11.49143

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6857.256	ug/L	
Be	9	0.006544	10.333	ug/L	0.001
B	10	6.072178	714.369	ug/L	0.312
B	11	6.702489	3636.097	ug/L	0.122
C	12		717063.787	ug/L	
Na	23	12687.280731	112502741.634	ug/L	70.413
Mg	24	10005.392825	60404326.731	ug/L	251.949
Mg	25	10137.995607	8463145.750	ug/L	84.084
Al	27	4.382545	50039.194	ug/L	0.401
Si	28		43306985.657	ug/L	
P	31	10.104012	20515.187	ug/L	0.620
S	32		105877713.692	ug/L	
Cl	35		12220949.523	ug/L	
K	39	4299.885556	65321898.958	ug/L	74.411
Ca	44	17879.176441	7630401.943	ug/L	411.881
Sc	45		266251.378	ug/L	
Ti	47	0.684018	1898.217	ug/L	0.073
Ti	48	14.036095	166315.335	ug/L	0.344
V	51	0.053292	43075.270	ug/L	0.013
ClO	51		45039.434	ug/L	
Cr	52	2.157702	40982.870	ug/L	0.050
Cr	53	2.174897	17582.830	ug/L	0.112
Fe	54	4662.749847	5289283.176	ug/L	102.351
Mn	55	627.419685	12777924.952	ug/L	11.943
Fe	56	4683.193250	93409345.585	ug/L	138.882
Fe	57	~~4609.143767~~	1914558.284	ug/L	76.669
Co	59	0.105279	2423.347	ug/L	0.005
Ni	60	0.681314	2313.651	ug/L	0.023
Ni	62	0.274136	203.338	ug/L	0.023
Cu	63	0.138746	2284.643	ug/L	0.004
Zn	64	3.141833	11899.641	ug/L	0.049
Cu	65	0.156440	718.702	ug/L	0.003
Zn	66	2.880436	6502.057	ug/L	0.020
Zn	68	3.440846	5514.394	ug/L	0.107
Ge	72		195389.419	ug/L	
As	75	2.243567	3911.692	ug/L	0.032
Se	74	16.866804	16032.247	mg/L	74.236
ArCl	77		1164.420	ug/L	
Br	79		53207.330	ug/L	

Br	81		84452.880	ug/L	
Y	89		526228.883	ug/L	
Mo	95	0.315141	1576.152	ug/L	0.006
Rh	103		464912.117	ug/L	
Ag	107	-0.019986	1077.742	ug/L	0.014
Ag	109	-0.023171	998.732	ug/L	0.007
Cd	111	-0.002361	90.335	ug/L	0.002
Cd	114	0.000884	213.338	ug/L	0.004
In	115		598803.015	ug/L	
Sb	121	0.047413	638.029	ug/L	0.001
Sb	123	0.047236	493.128	ug/L	0.000
Ba	137	12.982229	68316.414	ug/L	0.022
Ba	138	13.020298	440305.723	ug/L	0.014
Tb	159		660507.112	ug/L	
Ho	165		625710.244	ug/L	
Hg	200	0.000747	26.334	ug/L	0.000
Hg	202	-0.003793	22.000	ug/L	0.002
Tl	205	-0.000865	959.394	ug/L	0.007
Pb	208	0.073327	3869.358	ug/L	0.001
Bi	209		483494.593	ug/L	
Se	77	1.358485	1180.077	mg/L	0.190
Se	78	-3.866835	17985.844	mg/L	0.539
Se	82	0.665686	137.326	mg/L	0.015

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		119.988
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 97.439
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 95.124
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 96.596
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.12
Sample Date/Time: Friday, September 07, 2012 03:08:46
Autosampler Position: 79
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.12.49144

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6250.148	ug/L	
Be	9	-0.008438	4.333	ug/L	0.001
B	10	11.662032	1064.740	ug/L	0.060
B	11	11.978229	5134.168	ug/L	0.464
C	12		719799.324	ug/L	
Na	23	38536.400048	296443057.548	ug/L	1753.651
Mg	24	837.854975	4390274.151	ug/L	42.562
Mg	25	744.028461	538969.275	ug/L	4.967
Al	27	19.196870	161467.571	ug/L	0.450
Si	28		28267328.146	ug/L	
P	31	128.931843	76145.153	ug/L	0.385
S	32		100721901.612	ug/L	
Cl	35		11179407.479	ug/L	
K	39	4211.473933	55540903.752	ug/L	98.199
Ca	44	6725.455676	2514922.386	ug/L	98.237
Sc	45		231026.720	ug/L	
Ti	47	0.913169	1870.545	ug/L	0.114
Ti	48	5.457532	54344.185	ug/L	0.789
V	51	0.556856	44259.926	ug/L	0.017
ClO	51		45729.183	ug/L	
Cr	52	0.000829	11399.682	ug/L	0.013
Cr	53	1.070029	13673.749	ug/L	0.202
Fe	54	57.849675	123365.728	ug/L	4.555
Mn	55	14.560458	276855.180	ug/L	0.406
Fe	56	49.557412	4864342.976	ug/L	5.689
Fe	57	72.432395	38404.823	ug/L	3.804
Co	59	0.012512	862.383	ug/L	0.005
Ni	60	0.327178	1007.066	ug/L	0.011
Ni	62	0.385587	223.338	ug/L	0.006
Cu	63	0.521675	4486.819	ug/L	0.020
Zn	64	1.553807	5557.213	ug/L	0.033
Cu	65	0.240744	891.719	ug/L	0.004
Zn	66	1.348854	2904.494	ug/L	0.087
Zn	68	1.811994	2720.101	ug/L	0.059
Ge	72		182401.240	ug/L	
As	75	2.231046	3627.219	ug/L	0.178
Se	74	40.877074	14108.117	mg/L	101.158
ArCl	77		1113.746	ug/L	
Br	79		28723.964	ug/L	

Br	81		56430.496	ug/L	
Y	89		490693.597	ug/L	
Mo	95	0.907155	4153.657	ug/L	0.029
Rh	103		432228.190	ug/L	
Ag	107	-0.042729	713.702	ug/L	0.006
Ag	109	-0.044433	668.032	ug/L	0.010
Cd	111	0.017743	143.336	ug/L	0.004
Cd	114	0.020555	333.009	ug/L	0.002
In	115		552223.973	ug/L	
Sb	121	0.168232	1826.202	ug/L	0.001
Sb	123	0.163708	1370.772	ug/L	0.006
Ba	137	9.342875	45353.323	ug/L	0.273
Ba	138	9.277126	289379.482	ug/L	0.243
Tb	159		613312.409	ug/L	
Ho	165		591837.831	ug/L	
Hg	200	0.094844	208.338	ug/L	0.013
Hg	202	0.065985	198.337	ug/L	0.004
Tl	205	-0.002981	854.715	ug/L	0.001
Pb	208	0.078686	3840.687	ug/L	0.005
Bi	209		417158.021	ug/L	
Se	77	1.161860	1150.740	mg/L	0.164
Se	78	-2.517570	18604.984	mg/L	0.409
Se	82	0.346230	70.459	mg/L	0.201

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.114
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

90.962

87.725

91.367

Sample ID: 113653.13
Sample Date/Time: Friday, September 07, 2012 03:15:17
Autosampler Position: 80
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.13.49145

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6475.639	ug/L	
Be	9	-0.000488	7.000	ug/L	0.001
B	10	5.317827	577.357	ug/L	0.266
B	11	5.785470	2895.824	ug/L	0.004
C	12		707517.781	ug/L	
Na	23	6382.219902	50594534.537	ug/L	76.002
Mg	24	2786.691391	15045840.513	ug/L	4.138
Mg	25	2458.969205	1835636.223	ug/L	52.700
Al	27	3.280239	35720.284	ug/L	0.013
Si	28		30974490.274	ug/L	
P	31	0.834288	13654.965	ug/L	1.059
S	32		96819127.453	ug/L	
Cl	35		10882771.756	ug/L	
K	39	1803.267892	25072869.556	ug/L	58.847
Ca	44	4383.422366	1702523.676	ug/L	47.249
Sc	45		238045.095	ug/L	
Ti	47	0.418987	1431.794	ug/L	0.028
Ti	48	5.228785	53584.094	ug/L	0.375
V	51	0.444435	44017.428	ug/L	0.018
ClO	51		45834.411	ug/L	
Cr	52	-0.041976	11252.057	ug/L	0.000
Cr	53	1.085214	14113.429	ug/L	0.142
Fe	54	4.238234	73521.474	ug/L	1.149
Mn	55	1.470440	47315.304	ug/L	0.010
Fe	56	-15.409593	3911033.548	ug/L	1.504
Fe	57	12.502133	17478.533	ug/L	0.614
Co	59	0.031616	1152.085	ug/L	0.000
Ni	60	0.387457	1212.760	ug/L	0.016
Ni	62	0.342371	211.338	ug/L	0.002
Cu	63	0.069452	1574.485	ug/L	0.011
Zn	64	2.819032	9642.429	ug/L	0.025
Cu	65	0.120474	524.687	ug/L	0.004
Zn	66	2.504544	5120.159	ug/L	0.031
Zn	68	2.858344	4170.332	ug/L	0.001
Ge	72		189286.430	ug/L	
As	75	-0.013943	-338.409	ug/L	0.029
Se	74	54.574247	14184.140	mg/L	42.847
ArCl	77		1139.083	ug/L	
Br	79		8536.761	ug/L	

Br	81		33705.062	ug/L	
Y	89		502667.906	ug/L	
Mo	95	0.253638	1237.430	ug/L	0.009
Rh	103		448745.532	ug/L	
Ag	107	-0.047028	681.366	ug/L	0.004
Ag	109	-0.048041	644.696	ug/L	0.006
Cd	111	0.026531	175.003	ug/L	0.006
Cd	114	0.027594	394.013	ug/L	0.005
In	115		569577.890	ug/L	
Sb	121	0.032400	448.349	ug/L	0.001
Sb	123	0.030591	333.913	ug/L	0.001
Ba	137	5.152756	25835.260	ug/L	0.015
Ba	138	5.134160	165362.507	ug/L	0.016
Tb	159		633126.795	ug/L	
Ho	165		600350.113	ug/L	
Hg	200	-0.001406	21.000	ug/L	0.000
Hg	202	-0.001753	26.334	ug/L	0.002
Tl	205	0.005508	1080.075	ug/L	0.001
Pb	208	0.010351	1543.734	ug/L	0.001
Bi	209		459998.840	ug/L	
Se	77	0.911611	1113.402	mg/L	0.088
Se	78	-3.904329	17968.639	mg/L	0.570
Se	82	0.170603	33.697	mg/L	0.150

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.277
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 94.395
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 90.481
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.681
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.14
Sample Date/Time: Friday, September 07, 2012 03:21:48
Autosampler Position: 81
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.14.49146

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6387.577	ug/L	
Be	9	0.002182	8.667	ug/L	0.011
B	10	303.008893	27573.704	ug/L	5.330
B	11	322.946281	138589.968	ug/L	5.511
C	12		944516.346	ug/L	
Na	23	S	S	ug/L	S
Mg	24	22204.612127	132341824.825	ug/L	324.108
Mg	25	22337.148235	18403244.188	ug/L	96.545
Al	27	8.888440	90261.769	ug/L	0.306
Si	28		48868722.571	ug/L	
P	31	89.000116	64309.805	ug/L	3.031
S	32		106927232.714	ug/L	
Cl	35		13914774.251	ug/L	
K	39	21579.951920	319290214.706	ug/L	108.758
Ca	44	46394.202345	19477896.692	ug/L	544.638
Sc	45		262793.549	ug/L	
Ti	47	2.084640	3424.679	ug/L	0.068
Ti	48	54.585103	648039.141	ug/L	0.201
V	51	0.754561	53419.692	ug/L	0.021
ClO	51		55473.289	ug/L	
Cr	52	0.395233	17994.285	ug/L	0.009
Cr	53	1.972973	17026.435	ug/L	0.183
Fe	54	8942.786821	9944579.319	ug/L	6.544
Mn	55	138.504653	2802325.563	ug/L	1.357
Fe	56	9008.258331	173137453.885	ug/L	28.384
Fe	57	10222.778224	4174545.136	ug/L	88.338
Co	59	0.394840	6798.276	ug/L	0.005
Ni	60	7.156195	23104.220	ug/L	0.062
Ni	62	6.120661	3005.193	ug/L	0.018
Cu	63	0.977604	8496.721	ug/L	0.016
Zn	64	2.371243	9114.308	ug/L	0.040
Cu	65	0.170978	762.040	ug/L	0.002
Zn	66	2.037277	4703.597	ug/L	0.066
Zn	68	4.584532	7094.506	ug/L	0.124
Ge	72		186767.130	ug/L	
As	75	53.212288	95690.761	ug/L	1.323
Se	74	113.508030	11877.858	mg/L	58.569
ArCl	77		1783.193	ug/L	
Br	79		284112.305	ug/L	

Br	81		329883.722	ug/L	
Y	89		510667.646	ug/L	
Mo	95	2.813406	13099.229	ug/L	0.062
Rh	103		433094.699	ug/L	
Ag	107	-0.057682	536.355	ug/L	0.005
Ag	109	-0.062202	463.017	ug/L	0.005
Cd	111	0.017486	144.336	ug/L	0.003
Cd	114	0.022740	352.677	ug/L	0.001
In	115		559698.636	ug/L	
Sb	121	0.068592	816.378	ug/L	0.001
Sb	123	0.066226	611.967	ug/L	0.004
Ba	137	105.666209	519082.150	ug/L	2.929
Ba	138	112.668303	3557958.408	ug/L	2.043
Tb	159		624590.551	ug/L	
Ho	165		591171.621	ug/L	
Hg	200	0.012790	48.334	ug/L	0.001
Hg	202	0.010957	58.334	ug/L	0.002
Tl	205	-0.007781	734.370	ug/L	0.003
Pb	208	0.010687	1530.399	ug/L	0.002
Bi	209		437193.942	ug/L	
Se	77	4.871028	1704.160	mg/L	1.087
Se	78	-3.684296	18069.606	mg/L	0.735
Se	82	3.348732	698.929	mg/L	0.022

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		118.430
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 93.139
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 88.912
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 91.264
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.15
Sample Date/Time: Friday, September 07, 2012 03:28:19
Autosampler Position: 82
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.15.49147

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5679.107	ug/L	
Be	9	0.014553	11.333	ug/L	0.007
B	10	52.295166	4269.378	ug/L	2.411
B	11	56.475256	21693.737	ug/L	2.539
C	12		973085.805	ug/L	
Na	23	S	S	ug/L	S
Mg	24	3154.650476	16430435.477	ug/L	73.461
Mg	25	3277.867022	2359357.221	ug/L	117.291
Al	27	3.437249	35693.497	ug/L	0.169
Si	28		28882241.026	ug/L	
P	31	34.322949	29504.078	ug/L	2.205
S	32		101982920.666	ug/L	
Cl	35		16381747.296	ug/L	
K	39	5743.601325	74905298.301	ug/L	325.995
Ca	44	4910.234573	1835441.975	ug/L	111.266
Sc	45		229733.774	ug/L	
Ti	47	0.561321	1519.142	ug/L	0.039
Ti	48	4.943189	48700.414	ug/L	0.055
V	51	1.226231	53089.442	ug/L	0.092
ClO	51		55599.728	ug/L	
Cr	52	0.857032	20865.373	ug/L	0.050
Cr	53	4.351137	18264.512	ug/L	0.487
Fe	54	185.600195	245796.163	ug/L	6.851
Mn	55	58.616804	1047491.464	ug/L	2.351
Fe	56	195.326743	7218859.482	ug/L	8.221
Fe	57	203.198294	84657.445	ug/L	8.854
Co	59	0.138025	2524.709	ug/L	0.010
Ni	60	5.484682	15492.679	ug/L	0.127
Ni	62	5.792537	2488.699	ug/L	0.109
Cu	63	2.441560	16937.600	ug/L	0.108
Zn	64	1.242887	4594.078	ug/L	0.066
Cu	65	0.085692	396.013	ug/L	0.009
Zn	66	1.129024	2495.701	ug/L	0.068
Zn	68	2.177875	3163.915	ug/L	0.110
Ge	72		175000.368	ug/L	
As	75	2.229937	3479.819	ug/L	0.115
Se	74	-43.880550	16375.652	mg/L	98.314
ArCl	77		1714.179	ug/L	
Br	79		602700.190	ug/L	

Br	81		668054.775	ug/L	
Y	89		483127.565	ug/L	
Mo	95	0.196435	895.386	ug/L	0.008
Rh	103		416233.184	ug/L	
Ag	107	-0.065063	424.681	ug/L	0.000
Ag	109	-0.065421	405.346	ug/L	0.002
Cd	111	0.004299	100.002	ug/L	0.005
Cd	114	0.005635	222.338	ug/L	0.002
In	115		534215.068	ug/L	
Sb	121	0.057035	664.031	ug/L	0.005
Sb	123	0.054140	492.382	ug/L	0.001
Ba	137	33.331465	156332.957	ug/L	0.780
Ba	138	33.202893	1000918.478	ug/L	0.782
Tb	159		595585.579	ug/L	
Ho	165		564579.683	ug/L	
Hg	200	0.028125	74.668	ug/L	0.003
Hg	202	0.018492	74.001	ug/L	0.002
Tl	205	-0.011250	619.694	ug/L	0.002
Pb	208	0.031785	2145.455	ug/L	0.001
Bi	209		392019.315	ug/L	
Se	77	4.477752	1645.482	mg/L	0.076
Se	78	-3.160683	18309.878	mg/L	0.483
Se	82	6.782372	1417.643	mg/L	0.188

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.531
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 87.271
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 84.864
Sb
Sb
Ba
Ba
Tb
> Ho 87.158
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.16
Sample Date/Time: Friday, September 07, 2012 03:34:51
Autosampler Position: 83
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.16.49148

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5640.417	ug/L	
Be	9	0.000486	7.333	ug/L	0.002
B	10	299.003115	24710.790	ug/L	1.008
B	11	330.237281	128654.243	ug/L	7.999
C	12		866591.572	ug/L	
Na	23	S	S	ug/L	S
Mg	24	16138.172768	87336125.066	ug/L	304.651
Mg	25	16811.030282	12576268.668	ug/L	263.471
Al	27	59.681496	499888.079	ug/L	1.310
Si	28		28521377.218	ug/L	
P	31	77.723057	52644.139	ug/L	7.910
S	32		107609619.607	ug/L	
Cl	35		13841104.975	ug/L	
K	39	8473.845994	114436820.590	ug/L	150.937
Ca	44	39723.497898	15147205.450	ug/L	1011.668
Sc	45		238658.041	ug/L	
Ti	47	3.768334	4801.316	ug/L	0.114
Ti	48	24.869565	266279.832	ug/L	2.095
V	51	1.377753	57294.907	ug/L	0.145
ClO	51		59731.887	ug/L	
Cr	52	0.285877	15068.338	ug/L	0.063
Cr	53	2.689900	16516.496	ug/L	0.592
Fe	54	4630.081020	4707109.801	ug/L	222.909
Mn	55	3866.968839	70478408.346	ug/L	109.813
Fe	56	4602.899948	82361979.151	ug/L	147.898
Fe	57	4569.015015	1700549.256	ug/L	275.461
Co	59	4.660816	65101.255	ug/L	0.127
Ni	60	6.653312	19508.104	ug/L	0.197
Ni	62	5.925104	2643.744	ug/L	0.059
Cu	63	1.230710	9423.976	ug/L	0.039
Zn	64	2.338856	8174.184	ug/L	0.077
Cu	65	0.294097	1095.744	ug/L	0.020
Zn	66	2.067315	4325.739	ug/L	0.063
Zn	68	3.230568	4665.911	ug/L	0.213
Ge	72		178982.107	ug/L	
As	75	37.191552	64010.051	ug/L	0.526
Se	74	18.068495	14647.214	mg/L	9.700
ArCl	77		1710.178	ug/L	
Br	79		262175.002	ug/L	

Br	81		304283.210	ug/L	
Y	89		495763.837	ug/L	
Mo	95	21.780513	96905.061	ug/L	0.352
Rh	103		418863.747	ug/L	
Ag	107	-0.056839	535.688	ug/L	0.004
Ag	109	-0.058693	495.019	ug/L	0.006
Cd	111	0.064401	280.007	ug/L	0.003
Cd	114	0.051147	540.021	ug/L	0.003
In	115		547469.619	ug/L	
Sb	121	0.057980	690.700	ug/L	0.002
Sb	123	0.059402	545.713	ug/L	0.002
Ba	137	41.762998	200782.738	ug/L	0.684
Ba	138	41.590627	1285171.207	ug/L	0.284
Tb	159		621502.790	ug/L	
Ho	165		586050.604	ug/L	
Hg	200	-0.000458	22.334	ug/L	0.000
Hg	202	-0.003107	22.334	ug/L	0.000
Tl	205	-0.003777	826.713	ug/L	0.002
Pb	208	0.083710	3973.046	ug/L	0.001
Bi	209		417885.861	ug/L	
Se	77	3.986167	1572.136	mg/L	0.417
Se	78	-2.909841	18424.982	mg/L	0.166
Se	82	2.987200	623.255	mg/L	0.111

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.553
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 89.257
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 86.969
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.473
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17
Sample Date/Time: Friday, September 07, 2012 03:41:22
Autosampler Position: 84
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17.49149

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5675.105	ug/L	
Be	9	0.014131	12.000	ug/L	0.014
B	10	254.349523	21624.238	ug/L	3.009
B	11	275.323903	110368.353	ug/L	0.996
C	12		844958.938	ug/L	
Na	23	S	S	ug/L	S
Mg	24	12764.697056	71003609.637	ug/L	181.407
Mg	25	12934.021142	9945031.517	ug/L	213.227
Al	27	4.123020	43930.344	ug/L	0.208
Si	28		35268537.773	ug/L	
P	31	193.265594	114373.031	ug/L	1.493
S	32		105869732.558	ug/L	
Cl	35		13178713.298	ug/L	
K	39	7880.002733	109451641.637	ug/L	18.750
Ca	44	26288.587246	10317777.217	ug/L	569.233
Sc	45		245261.741	ug/L	
Ti	47	1.351749	2439.018	ug/L	0.035
Ti	48	18.135680	198912.184	ug/L	1.235
V	51	0.644186	48254.209	ug/L	0.002
ClO	51		50289.890	ug/L	
Cr	52	0.018860	12317.176	ug/L	0.023
Cr	53	1.562363	15265.626	ug/L	0.061
Fe	54	7343.765063	7634436.078	ug/L	42.024
Mn	55	466.128743	8751656.027	ug/L	6.072
Fe	56	7522.689928	135644348.849	ug/L	160.484
Fe	57	8450.505618	3222904.051	ug/L	73.871
Co	59	0.103024	2200.955	ug/L	0.001
Ni	60	4.891640	14767.132	ug/L	0.001
Ni	62	4.407229	2037.582	ug/L	0.045
Cu	63	0.945315	7705.675	ug/L	0.018
Zn	64	2.376136	8521.781	ug/L	0.015
Cu	65	0.081944	410.680	ug/L	0.003
Zn	66	2.173766	4648.568	ug/L	0.007
Zn	68	4.234799	6150.141	ug/L	0.015
Ge	72		182926.279	ug/L	
As	75	4.280879	7259.988	ug/L	0.205
Se	74	157.975925	10099.946	mg/L	14.719
ArCl	77		1398.455	ug/L	
Br	79		237655.365	ug/L	

Br	81		279967.824	ug/L	
Y	89		487397.151	ug/L	
Mo	95	3.015266	13748.526	ug/L	0.016
Rh	103		420307.566	ug/L	
Ag	107	-0.058130	525.021	ug/L	0.004
Ag	109	-0.061577	465.350	ug/L	0.002
Cd	111	0.014175	132.669	ug/L	0.000
Cd	114	0.014671	292.341	ug/L	0.000
In	115		552393.288	ug/L	
Sb	121	0.042659	539.355	ug/L	0.005
Sb	123	0.042389	416.451	ug/L	0.004
Ba	137	78.909261	382666.776	ug/L	0.982
Ba	138	85.011435	2649600.769	ug/L	1.814
Tb	159		615355.804	ug/L	
Ho	165		581357.547	ug/L	
Hg	200	0.013534	49.001	ug/L	0.001
Hg	202	0.007479	48.667	ug/L	0.002
Tl	205	-0.008847	697.367	ug/L	0.001
Pb	208	0.011946	1547.401	ug/L	0.001
Bi	209		417758.518	ug/L	
Se	77	2.931505	1414.777	mg/L	0.215
Se	78	-4.021498	17914.874	mg/L	0.031
Se	82	2.721526	567.645	mg/L	0.258

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		110.529
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 91.224
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 87.752
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 89.749
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.17 MS
Sample Date/Time: Friday, September 07, 2012 03:47:54
Autosampler Position: 85
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17 MS.49150

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5604.400	ug/L	
Be	9	789.495785	250075.487	ug/L	53.821
B	10	241.759133	19860.539	ug/L	10.320
B	11	257.257268	99646.188	ug/L	11.706
C	12		1409872.471	ug/L	
Na	23	100957.154363	796368823.240	ug/L	4476.486
Mg	24	22897.518130	122978364.239	ug/L	1278.129
Mg	25	23013.115532	17075741.376	ug/L	1707.476
Al	27	10747.394298	87760951.359	ug/L	653.459
Si	28		32348816.103	ug/L	
P	31	10033.275544	5065969.197	ug/L	361.593
S	32		112797356.219	ug/L	
Cl	35		15297431.581	ug/L	
K	39	17678.259440	235735980.830	ug/L	1336.908
Ca	44	36662.908102	13875700.152	ug/L	2283.763
Sc	45		237204.126	ug/L	
Ti	47	23.231572	24156.636	ug/L	2.048
Ti	48	22.134919	235021.288	ug/L	1.277
V	51	996.759834	14000783.600	ug/L	69.190
ClO	51		14501903.961	ug/L	
Cr	52	973.023465	11181568.723	ug/L	68.865
Cr	53	807.610717	1199754.395	ug/L	50.851
Fe	54	16699.736081	16665071.556	ug/L	1244.914
Mn	55	1429.871931	25863345.128	ug/L	108.173
Fe	56	16874.585352	288366976.894	ug/L	1474.831
Fe	57	19065.844213	7000944.481	ug/L	1412.905
Co	59	931.226851	12759662.787	ug/L	72.604
Ni	60	894.247018	2590727.100	ug/L	55.431
Ni	62	825.363696	356586.041	ug/L	65.767
Cu	63	835.474451	5599816.644	ug/L	62.846
Zn	64	892.211815	2746502.545	ug/L	61.306
Cu	65	836.857928	2726525.955	ug/L	55.372
Zn	66	791.313307	1449273.421	ug/L	54.684
Zn	68	790.835058	1028054.312	ug/L	57.396
Ge	72		179034.069	ug/L	
As	75	1023.859022	1766919.191	ug/L	72.233
Se	74	-313.417224	25857.686	mg/L	99.014
ArCl	77		136886.397	ug/L	
Br	79		217804.507	ug/L	

Br	81		256764.797	ug/L	
Y	89		479633.123	ug/L	
Mo	95	1145.433155	5085425.870	ug/L	78.940
Rh	103		413925.054	ug/L	
Ag	107	815.417364	9836975.493	ug/L	20.875
Ag	109	784.105329	9118622.194	ug/L	42.226
Cd	111	1110.066796	3241200.511	ug/L	57.266
Cd	114	1091.001119	7393717.974	ug/L	59.466
In	115		541176.955	ug/L	
Sb	121	1123.946344	11273743.995	ug/L	56.667
Sb	123	1103.910023	8502016.637	ug/L	53.784
Ba	137	1161.106951	5509899.071	ug/L	65.488
Ba	138	1159.187418	35359403.773	ug/L	63.931
Tb	159		603316.765	ug/L	
Ho	165		565705.697	ug/L	
Hg	200	1.108562	2086.260	ug/L	0.081
Hg	202	1.078718	2651.747	ug/L	0.029
Tl	205	1079.383018	25514314.788	ug/L	50.236
Pb	208	1058.154827	34300283.555	ug/L	55.910
Bi	209		422398.775	ug/L	
Se	77	908.160890	136478.190	mg/L	8.415
Se	78	933.175696	447968.681	mg/L	6.301
Se	82	904.732942	189372.524	mg/L	1.856

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.898
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 89.283
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 85.970
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 87.332
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17 MSD
Sample Date/Time: Friday, September 07, 2012 04:20:06
Autosampler Position: 86
Sample Description: AqTot post
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17 MSD.49155

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5905.919	ug/L	
Be	9	838.453873	267350.545	ug/L	1.192
B	10	240.040795	19833.477	ug/L	3.670
B	11	256.035073	99765.510	ug/L	0.787
C	12		1344903.398	ug/L	
Na	23	100205.268924	794983208.808	ug/L	1949.429
Mg	24	22875.412746	123624362.270	ug/L	162.623
Mg	25	22739.554879	16986497.490	ug/L	249.007
Al	27	10887.498905	89467924.935	ug/L	121.867
Si	28		31982305.439	ug/L	
P	31	9907.189197	5030021.403	ug/L	183.122
S	32		109253733.056	ug/L	
Cl	35		14593277.133	ug/L	
K	39	17105.987921	229696957.275	ug/L	77.754
Ca	44	35979.144239	13703994.622	ug/L	516.639
Sc	45		238298.119	ug/L	
Ti	47	22.160351	23254.275	ug/L	0.029
Ti	48	23.280779	249099.077	ug/L	1.635
V	51	1005.131363	14211334.759	ug/L	9.427
ClO	51		14694546.069	ug/L	
Cr	52	996.859409	11529259.983	ug/L	27.363
Cr	53	807.489017	1207333.779	ug/L	2.088
Fe	54	16635.995979	16712162.671	ug/L	329.205
Mn	55	1431.054998	26059920.175	ug/L	17.768
Fe	56	16808.738663	289269752.416	ug/L	350.967
Fe	57	18787.876380	6943300.859	ug/L	794.615
Co	59	935.293524	12901734.046	ug/L	20.846
Ni	60	899.907199	2623334.785	ug/L	23.302
Ni	62	819.256826	356364.322	ug/L	15.354
Cu	63	850.791098	5740789.660	ug/L	13.402
Zn	64	898.311360	2783123.647	ug/L	20.213
Cu	65	842.738877	2762912.664	ug/L	27.535
Zn	66	798.751590	1472563.435	ug/L	6.784
Zn	68	799.967866	1046850.555	ug/L	10.942
Ge	72		181786.217	ug/L	
As	75	1009.627219	1772841.558	ug/L	0.412
Se	74	-233.826681	23600.277	mg/L	39.291
ArCl	77		139331.852	ug/L	
Br	79		207904.806	ug/L	

Br	81		247220.855	ug/L	
Y	89		485853.456	ug/L	
Mo	95	1137.707524	5139247.859	ug/L	9.110
Rh	103		411592.731	ug/L	
Ag	107	850.551390	10177221.559	ug/L	15.379
Ag	109	818.791983	9449675.505	ug/L	9.185
Cd	111	1137.208491	3295045.200	ug/L	2.629
Cd	114	1115.997521	7505638.042	ug/L	2.582
In	115		536478.570	ug/L	
Sb	121	1140.711707	11353859.164	ug/L	12.543
Sb	123	1131.620387	8648123.821	ug/L	8.157
Ba	137	1170.833798	5514042.712	ug/L	2.705
Ba	138	1171.325470	35458881.267	ug/L	3.223
Tb	159		600006.809	ug/L	
Ho	165		572850.736	ug/L	
Hg	200	1.080682	2063.588	ug/L	0.000
Hg	202	1.080535	2691.425	ug/L	0.005
Tl	205	1085.966429	26022958.209	ug/L	7.198
Pb	208	1072.127062	35236442.702	ug/L	4.152
Bi	209		440615.131	ug/L	
Se	77	918.130466	137965.685	mg/L	2.476
Se	78	955.689874	458299.813	mg/L	8.062
Se	82	915.645020	191656.590	mg/L	12.816

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		107.391
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.655
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 85.223
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.435
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.18
Sample Date/Time: Friday, September 07, 2012 04:46:13
Autosampler Position: 90
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.18.49159

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5771.168	ug/L	
Be	9	0.049595	23.667	ug/L	0.001
B	10	406.010389	34447.825	ug/L	17.190
B	11	428.771485	171574.162	ug/L	19.570
C	12		1025011.513	ug/L	
Na	23	S	S	ug/L	S
Mg	24	21580.632004	120162655.431	ug/L	152.532
Mg	25	22177.243832	17069350.796	ug/L	155.609
Al	27	7.301625	70875.627	ug/L	0.145
Si	28		43112971.579	ug/L	
P	31	189.628179	112587.592	ug/L	1.479
S	32		102346062.229	ug/L	
Cl	35		13373185.025	ug/L	
K	39	31358.078937	432932535.265	ug/L	480.075
Ca	44	65117.173134	25519975.770	ug/L	994.454
Sc	45		245530.257	ug/L	
Ti	47	1.938439	3047.208	ug/L	0.080
Ti	48	69.168047	766723.389	ug/L	7.923
V	51	0.770403	50110.905	ug/L	0.139
ClO	51		51853.989	ug/L	
Cr	52	0.415485	17044.582	ug/L	0.049
Cr	53	0.750921	14039.974	ug/L	0.225
Fe	54	31043.909820	32074027.335	ug/L	198.245
Mn	55	3263.535414	61187479.666	ug/L	95.163
Fe	56	31334.191409	551800596.859	ug/L	797.355
Fe	57	35060.885155	13338317.036	ug/L	1124.353
Co	59	0.878130	13215.397	ug/L	0.030
Ni	60	7.010160	21134.752	ug/L	0.294
Ni	62	5.681931	2609.401	ug/L	0.261
Cu	63	0.943377	7694.999	ug/L	0.053
Zn	64	2.175904	7888.187	ug/L	0.079
Cu	65	0.158983	671.365	ug/L	0.002
Zn	66	1.879938	4093.629	ug/L	0.072
Zn	68	4.073724	5935.330	ug/L	0.218
Ge	72		179497.567	ug/L	
As	75	4.485405	7480.004	ug/L	0.105
Se	74	280.480157	5707.514	mg/L	46.047
ArCl	77		1200.091	ug/L	
Br	79		415730.185	ug/L	

Br	81		470931.756	ug/L	
Y	89		480438.699	ug/L	
Mo	95	0.263454	1217.094	ug/L	0.012
Rh	103		413678.929	ug/L	
Ag	107	0.160622	3145.910	ug/L	0.021
Ag	109	0.157633	2999.526	ug/L	0.024
Cd	111	0.015537	133.669	ug/L	0.001
Cd	114	0.027541	372.678	ug/L	0.006
In	115		540072.672	ug/L	
Sb	121	0.110227	1204.759	ug/L	0.002
Sb	123	0.113006	950.745	ug/L	0.000
Ba	137	87.181207	413349.099	ug/L	1.532
Ba	138	95.011150	2895528.009	ug/L	1.321
Tb	159		597528.073	ug/L	
Ho	165		566538.656	ug/L	
Hg	200	0.002614	27.334	ug/L	0.000
Hg	202	-0.000600	27.667	ug/L	0.003
Tl	205	-0.006795	728.036	ug/L	0.002
Pb	208	0.008390	1392.721	ug/L	0.001
Bi	209		443040.214	ug/L	
Se	77	1.286985	1169.409	mg/L	0.114
Se	78	-3.915176	17963.662	mg/L	0.718
Se	82	4.980772	1040.540	mg/L	0.028

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		110.650
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 89.514
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 85.794
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 87.461
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.20
Sample Date/Time: Friday, September 07, 2012 04:52:44
Autosampler Position: 91
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.20.49160

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5664.431	ug/L	
Be	9	-0.014036	2.333	ug/L	0.002
B	10	6.522775	588.025	ug/L	0.587
B	11	6.790295	2857.479	ug/L	0.671
C	12		670890.634	ug/L	
Na	23	310.577146	2152373.601	ug/L	33.562
Mg	24	11.345740	53810.824	ug/L	0.053
Mg	25	11.770473	7720.716	ug/L	0.209
Al	27	9.538504	75782.131	ug/L	0.133
Si	28		1440252.978	ug/L	
P	31	1.125663	12005.855	ug/L	3.466
S	32		106228883.555	ug/L	
Cl	35		10475442.575	ug/L	
K	39	15.324596	1028670.531	ug/L	0.237
Ca	44	89.705612	63963.945	ug/L	0.268
Sc	45		207122.243	ug/L	
Ti	47	-0.659016	305.675	ug/L	0.002
Ti	48	0.230903	-419.108	ug/L	0.004
V	51	0.594878	40146.873	ug/L	0.062
ClO	51		41347.912	ug/L	
Cr	52	0.046239	10676.382	ug/L	0.014
Cr	53	1.313371	12571.816	ug/L	0.278
Fe	54	6.035662	65545.441	ug/L	0.087
Mn	55	-0.919490	3368.324	ug/L	0.001
Fe	56	7.101785	3735073.757	ug/L	5.325
Fe	57	-2.877795	10276.833	ug/L	0.558
Co	59	0.014607	798.376	ug/L	0.002
Ni	60	0.073096	259.006	ug/L	0.006
Ni	62	0.091369	89.001	ug/L	0.016
Cu	63	0.048624	1248.432	ug/L	0.011
Zn	64	0.745285	2805.317	ug/L	0.013
Cu	65	0.150300	541.688	ug/L	0.006
Zn	66	0.745788	1638.164	ug/L	0.024
Zn	68	0.784546	1270.435	ug/L	0.020
Ge	72		180752.784	ug/L	
As	75	0.110377	-106.256	ug/L	0.007
Se	74	6.320996	15219.936	mg/L	84.278
ArCl	77		774.374	ug/L	
Br	79		6741.235	ug/L	

Br	81		31902.866	ug/L	
Y	89		491764.584	ug/L	
Mo	95	0.042852	235.005	ug/L	0.004
Rh	103		451290.655	ug/L	
Ag	107	0.076320	2234.987	ug/L	0.077
Ag	109	0.073896	2126.955	ug/L	0.071
Cd	111	0.007042	114.669	ug/L	0.000
Cd	114	0.007333	248.673	ug/L	0.001
In	115		568710.075	ug/L	
Sb	121	0.036960	495.685	ug/L	0.000
Sb	123	0.034238	363.211	ug/L	0.002
Ba	137	0.121464	676.699	ug/L	0.003
Ba	138	0.124262	4333.212	ug/L	0.002
Tb	159		634065.493	ug/L	
Ho	165		592131.177	ug/L	
Hg	200	-0.001773	20.000	ug/L	0.000
Hg	202	-0.003185	22.334	ug/L	0.001
Tl	205	-0.002106	876.051	ug/L	0.005
Pb	208	-0.005428	986.364	ug/L	0.000
Bi	209		447764.175	ug/L	
Se	77	-1.197586	798.702	mg/L	0.265
Se	78	-3.898687	17971.228	mg/L	0.238
Se	82	0.186429	37.010	mg/L	0.049

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		93.341
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.140
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.344
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.412
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Friday, September 07, 2012 18:38:10	100	97	99	101
QC Std 2	Friday, September 07, 2012 18:44:36	98	97	98	99
QC Std 3	Friday, September 07, 2012 18:51:00	97	96	97	98
QC Std 5	Friday, September 07, 2012 18:57:24	98	97	97	99
QC Std 6	Friday, September 07, 2012 19:03:48	101	100	98	99
LLCS	Friday, September 07, 2012 19:29:31	99	99	98	100
ICSA	Friday, September 07, 2012 19:35:56	100	101	94	97
ICSAB	Friday, September 07, 2012 19:42:22	99	101	93	98
5ppm LRC-flush	Friday, September 07, 2012 19:48:47	102	99	97	100
BLK	Friday, September 07, 2012 20:01:40	106	102	102	105
BLK	Friday, September 07, 2012 20:08:07	104	101	102	103
QC Std 1	Friday, September 07, 2012 20:14:34	103	100	99	102
QC Std 2	Friday, September 07, 2012 20:20:59	98	97	97	97
QC Std 5	Friday, September 07, 2012 20:27:23	97	97	97	99
QC Std 6	Friday, September 07, 2012 20:33:48	100	98	96	100
LCS	Friday, September 07, 2012 20:40:13	102	97	95	99
113593.02	Friday, September 07, 2012 21:05:52	103	97	98	99
113593.04	Friday, September 07, 2012 21:12:16	101	96	97	99
113593.06	Friday, September 07, 2012 21:18:41	100	97	97	98
113653.14	Friday, September 07, 2012 21:25:07	102	96	98	100
113653.15	Friday, September 07, 2012 21:31:33	101	97	97	100
113653.16	Friday, September 07, 2012 21:37:59	104	99	101	101
QC Std 1	Friday, September 07, 2012 21:44:26	103	99	100	102
QC Std 2	Friday, September 07, 2012 21:50:51	99	98	100	101
QC Std 5	Friday, September 07, 2012 21:57:15	97	96	99	98
QC Std 6	Friday, September 07, 2012 22:03:40	96	95	93	96
113653.17	Friday, September 07, 2012 22:10:05	101	99	99	100
113653.18	Friday, September 07, 2012 22:16:32	103	100	100	100
113689.03	Friday, September 07, 2012 22:22:58	100	98	98	100
113689.09	Friday, September 07, 2012 22:29:24	101	98	98	99
113689.1	Friday, September 07, 2012 22:35:49	98	98	98	99
113689.11	Friday, September 07, 2012 22:42:14	101	96	98	99
113593.02 MS	Friday, September 07, 2012 22:48:39	100	95	92	95
113593.02 MSD	Friday, September 07, 2012 22:55:05	98	93	91	95
113653.17 MS	Friday, September 07, 2012 23:01:30	95	92	90	94
113653.17 MSD	Friday, September 07, 2012 23:07:55	97	89	89	92
QC Std 1	Friday, September 07, 2012 23:14:22	94	89	92	93
QC Std 2	Friday, September 07, 2012 23:20:47	93	89	91	93
QC Std 5	Friday, September 07, 2012 23:27:11	93	89	90	93
QC Std 6	Friday, September 07, 2012 23:33:36	95	91	90	96
113593.01	Friday, September 07, 2012 23:59:20	107	93	90	94
113593.03	Saturday, September 08, 2012 00:05:47	104	92	92	96
113593.07	Saturday, September 08, 2012 00:12:12	99	91	90	95
113653.01	Saturday, September 08, 2012 00:18:38	108	92	91	94
113653.02	Saturday, September 08, 2012 00:25:03	100	91	89	93
113653.03	Saturday, September 08, 2012 00:31:29	102	89	90	93
113653.06	Saturday, September 08, 2012 00:37:55	105	91	91	95
QC Std 1	Saturday, September 08, 2012 00:44:21	93	89	92	94
QC Std 2	Saturday, September 08, 2012 00:50:46	87	87	89	90
QC Std 5	Saturday, September 08, 2012 00:57:10	88	89	90	92
QC Std 6	Saturday, September 08, 2012 01:03:35	95	92	91	95
113653.07	Saturday, September 08, 2012 01:10:05	104	93	90	95
113653.08	Saturday, September 08, 2012 01:16:36	104	92	91	94
113689.08	Saturday, September 08, 2012 01:23:06	102	89	91	93
113653.07 MS	Saturday, September 08, 2012 01:29:38	102	90	87	91

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.07 MSD	Saturday, September 08, 2012 01:36:09	101	90	88	91
113689.08 MS	Saturday, September 08, 2012 01:42:41	95	87	85	89
113689.08 MSD	Saturday, September 08, 2012 01:49:12	98	87	86	90
QC Std 1	Saturday, September 08, 2012 02:15:12	88	86	89	91
QC Std 2	Saturday, September 08, 2012 02:21:37	85	84	87	89
QC Std 5	Saturday, September 08, 2012 02:28:01	85	85	87	90
QC Std 6	Saturday, September 08, 2012 02:34:25	90	88	88	93
113593.02	Saturday, September 08, 2012 02:40:56	105	86	85	90
113593.04	Saturday, September 08, 2012 02:47:27	102	85	86	89
113593.05	Saturday, September 08, 2012 02:53:58	99	89	87	92
113593.06	Saturday, September 08, 2012 03:00:29	100	84	84	89
113593.08	Saturday, September 08, 2012 03:07:00	115	90	87	90
113593.09	Saturday, September 08, 2012 03:13:31	100	88	88	92
113593.1	Saturday, September 08, 2012 03:20:02	103	92	89	90
113593.11	Saturday, September 08, 2012 03:26:34	89	88	88	93
113593.12	Saturday, September 08, 2012 03:33:06	87	86	87	90
113653.04	Saturday, September 08, 2012 03:39:37	107	92	90	91
QC Std 1	Saturday, September 08, 2012 03:46:04	91	90	90	94
QC Std 2	Saturday, September 08, 2012 03:52:29	87	86	87	89
QC Std 5	Saturday, September 08, 2012 03:58:53	88	87	88	89
QC Std 6	Saturday, September 08, 2012 04:05:18	92	90	88	91
113653.05	Saturday, September 08, 2012 04:11:48	109	90	88	90
113653.09	Saturday, September 08, 2012 04:18:20	107	90	88	92
113653.1	Saturday, September 08, 2012 04:24:51	110	93	88	95
113653.11	Saturday, September 08, 2012 04:31:22	111	93	89	93
113653.12	Saturday, September 08, 2012 04:37:53	105	93	89	92
113653.13	Saturday, September 08, 2012 04:44:25	109	92	90	94
113653.14	Saturday, September 08, 2012 04:50:56	117	90	88	94
113653.15	Saturday, September 08, 2012 04:57:27	104	86	83	88
113653.16	Saturday, September 08, 2012 05:03:59	103	87	85	90
113653.17	Saturday, September 08, 2012 05:10:31	104	87	85	90
QC Std 1	Saturday, September 08, 2012 05:16:58	95	89	90	94
QC Std 2	Saturday, September 08, 2012 05:23:23	90	89	89	92
QC Std 5	Saturday, September 08, 2012 05:29:47	90	87	88	91
QC Std 6	Saturday, September 08, 2012 05:36:12	96	93	88	95
113653.18	Saturday, September 08, 2012 05:42:43	113	90	86	91
113653.2	Saturday, September 08, 2012 05:49:14	94	89	91	94
113689.01	Saturday, September 08, 2012 05:55:46	106	91	89	94
113689.02	Saturday, September 08, 2012 06:02:17	106	89	87	93
113689.03	Saturday, September 08, 2012 06:08:49	114	86	84	90
113689.04	Saturday, September 08, 2012 06:15:21	104	89	87	91
113689.05	Saturday, September 08, 2012 06:21:53	110	89	88	92
113689.06	Saturday, September 08, 2012 06:28:24	110	87	86	89
113689.07	Saturday, September 08, 2012 06:34:56	100	86	84	89
113689.09	Saturday, September 08, 2012 06:41:27	101	84	82	87
QC Std 1	Saturday, September 08, 2012 06:47:55	87	85	85	90
QC Std 2	Saturday, September 08, 2012 06:54:20	83	82	82	85
QC Std 5	Saturday, September 08, 2012 07:00:44	84	82	82	85
QC Std 6	Saturday, September 08, 2012 07:07:09	89	86	84	88
113689.1	Saturday, September 08, 2012 07:13:40	98	83	81	86
113689.11	Saturday, September 08, 2012 07:20:12	106	83	82	86
113593.12 MS	Saturday, September 08, 2012 07:26:44	88	85	84	88
113593.12 MSD	Saturday, September 08, 2012 07:33:16	89	84	83	86
113653.01	Saturday, September 08, 2012 07:59:26	109	87	83	87
113653.02	Saturday, September 08, 2012 08:05:58	102	85	80	84

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.04	Saturday, September 08, 2012 08:12:30	108	87	86	89
QC Std 1	Saturday, September 08, 2012 08:18:58	87	85	85	88
QC Std 2	Saturday, September 08, 2012 08:25:23	84	83	83	86
QC Std 5	Saturday, September 08, 2012 08:31:47	85	84	85	87
QC Std 6	Saturday, September 08, 2012 08:38:12	87	87	84	88
113653.05	Saturday, September 08, 2012 08:44:43	106	87	84	88
113653.06	Saturday, September 08, 2012 08:51:15	107	87	83	87
113653.07	Saturday, September 08, 2012 08:57:48	103	85	83	87
113653.07 MS	Saturday, September 08, 2012 09:04:20	100	83	80	83
113653.07 MSD	Saturday, September 08, 2012 09:10:52	97	82	80	84
113653.08	Saturday, September 08, 2012 09:37:03	100	82	81	86
113653.09	Saturday, September 08, 2012 09:43:36	99	85	84	87
QC Std 1	Saturday, September 08, 2012 09:50:03	83	84	84	87
QC Std 2	Saturday, September 08, 2012 09:56:29	82	83	82	86
QC Std 5	Saturday, September 08, 2012 10:02:53	84	83	83	86
QC Std 6	Saturday, September 08, 2012 10:09:18	86	85	84	87
113653.1	Saturday, September 08, 2012 10:15:49	99	83	83	85
113653.11	Saturday, September 08, 2012 10:22:22	101	86	83	88
113653.12	Saturday, September 08, 2012 10:28:54	96	85	83	87
113653.13	Saturday, September 08, 2012 10:35:27	95	84	82	86
113653.16	Saturday, September 08, 2012 10:42:00	96	83	81	85
113653.17	Saturday, September 08, 2012 10:48:32	94	79	78	82
113653.2	Saturday, September 08, 2012 10:55:05	84	83	84	86
113689.01	Saturday, September 08, 2012 11:01:38	94	83	83	86
113689.01 MS	Saturday, September 08, 2012 11:08:11	97	84	81	85
113689.01 MSD	Saturday, September 08, 2012 11:14:44	98	84	81	84
QC Std 1	Saturday, September 08, 2012 11:21:11	85	84	82	87
QC Std 2	Saturday, September 08, 2012 11:27:37	84	83	83	86
QC Std 5	Saturday, September 08, 2012 11:34:01	85	83	83	86
QC Std 6	Saturday, September 08, 2012 11:40:26	87	86	83	88
113689.02	Saturday, September 08, 2012 12:06:36	98	84	82	88
113689.03	Saturday, September 08, 2012 12:13:09	106	81	79	84
113689.04	Saturday, September 08, 2012 12:19:42	92	81	80	84
113689.05	Saturday, September 08, 2012 12:26:15	89	77	77	80
113689.07	Saturday, September 08, 2012 12:32:48	86	78	77	80
113689.08	Saturday, September 08, 2012 12:39:21	97	79	77	82
113689.09	Saturday, September 08, 2012 12:45:54	91	79	77	82
QC Std 1	Saturday, September 08, 2012 12:52:22	81	79	81	85
QC Std 2	Saturday, September 08, 2012 12:58:47	79	78	80	83
QC Std 5	Saturday, September 08, 2012 13:05:12	80	80	81	83
QC Std 6	Saturday, September 08, 2012 13:11:36	87	84	83	86
113689.1	Saturday, September 08, 2012 13:18:08	94	82	79	85
113689.11	Saturday, September 08, 2012 13:24:42	100	81	79	83
QC Std 1	Saturday, September 08, 2012 13:31:09	83	82	85	87
QC Std 2	Saturday, September 08, 2012 13:37:35	81	83	84	86
QC Std 5	Saturday, September 08, 2012 13:43:59	79	80	82	86
QC Std 6	Saturday, September 08, 2012 13:50:24	86	84	82	85

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, September 07, 2012 17:06:00
Sample Description:
Method File: C:\Elandata\Method\EPA200 DAILY.mth
Dataset File: C:\Elandata\Dataset\daily performance\Sample.033
Tuning File: C:\Elandata\Tuning\EPA.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

1.84×10^{-5}

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	24232.7	24232.680	352.540	1.5
	Rh	102.9	287444.2	287444.248	1859.493	0.6
	In	114.9	389328.7	389328.674	3130.782	0.8
	Pb	208.0	203738.1	203738.075	675.183	0.3
>	Ba	137.9	342249.4	342249.438	1274.129	0.4
	Ba++	69.0	3071.8	0.009	0.000	1.7
>	Ce	139.9	403740.5	403740.484	2168.958	0.5
	CeO	155.9	11020.0	0.027	0.000	0.6
	Bkgd	220.0	4.0	4.000	2.916	72.9

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
7.75	Lens Voltage
1100.00	ICP RF Power
-1947.00	Analog Stage Voltage
1273.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-5.50	AC Rod Offset

7361.7

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	15	5.8	3376.1
Co	59	15	7.3	129008.4
In	115	15	8.0	416417.1

7360.7

Instrument Tuning Report

File Name: EPA.tun
File Path: C:\elandata\Tuning\EPA.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	609	2087	0.563	
Mg	23.985	24.029	5745	2024	0.556	
Rh	102.905	102.928	25065	1900	0.634	
Ce	139.905	139.929	34051	1961	0.656	
Pb	207.977	207.977	50455	2247	0.631	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 18:44:36
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		97.003	
Ho	165		ug/L		98.557	
In	115		ug/L		97.578	
Mn	55	97.987948	ug/L	97.598		100
Sc	45		ug/L		97.97	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 20:20:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		96.918	
Ho	165		ug/L		97.453	
In	115		ug/L		96.888	
Mn	55	102.11727	ug/L	101.71		100
Sc	45		ug/L		97.533	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 18:57:24
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	239.706601	ug/L	91.842		261
Fe	54	224.411917	ug/L	93.117		241
Fe	56	247.191479	ug/L	102.569		241
Fe	57	243.611542	ug/L	101.084		241
Ge	72		ug/L		97.266	
Ho	165		ug/L		98.692	
In	115		ug/L		97.471	
Sc	45		ug/L		97.687	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 20:27:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.933841	ug/L	93.844		261
Fe	54	233.216321	ug/L	96.77		241
Fe	56	251.946725	ug/L	104.542		241
Fe	57	250.551404	ug/L	103.963		241
Ge	72		ug/L		97.244	
Ho	165		ug/L		98.628	
In	115		ug/L		96.65	
Sc	45		ug/L		96.649	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 19:03:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9821.04106	ug/L	98.21		10000
Ca	44	10868.5528	ug/L	108.686		10000
Fe	54	9719.4603	ug/L	97.195		10000
Fe	56	9273.51168	ug/L	92.735		10000
Ge	72		ug/L		99.593	
Ho	165		ug/L		99.227	
In	115		ug/L		97.714	
Mg	24	9617.06466	ug/L	96.171		10000
Mg	25	9514.15647	ug/L	95.142		10000
Na	23	9735.18095	ug/L	97.352		10000
Sc	45		ug/L		101.112	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 20:33:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10122.9206	ug/L	101.229		10000
Ca	44	10760.4728	ug/L	107.605		10000
Fe	54	9935.72185	ug/L	99.357		10000
Fe	56	9778.40894	ug/L	97.784		10000
Ge	72		ug/L		97.869	
Ho	165		ug/L		99.77	
In	115		ug/L		95.899	
Mg	24	9850.65187	ug/L	98.507		10000
Mg	25	9689.54824	ug/L	96.895		10000
Na	23	9811.68527	ug/L	98.117		10000
Sc	45		ug/L		100.372	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 21:50:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		98.365	
Ho	165		ug/L		100.869	
In	115		ug/L		99.644	
Mn	55	98.350618	ug/L	97.959		100
Sc	45		ug/L		99.298	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 23:20:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		89.047	
Ho	165		ug/L		93.476	
In	115		ug/L		90.743	
Mn	55	96.727627	ug/L	96.342		100
Sc	45		ug/L		93.034	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 21:57:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	240.640902	ug/L	92.2		261
Fe	54	228.769029	ug/L	94.925		241
Fe	56	260.013622	ug/L	107.889		241
Fe	57	241.573979	ug/L	100.238		241
Ge	72		ug/L		96.381	
Ho	165		ug/L		97.863	
In	115		ug/L		99.169	
Sc	45		ug/L		96.636	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 23:27:11
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	243.607706	ug/L	93.336		261
Fe	54	217.623034	ug/L	90.3		241
Fe	56	236.25211	ug/L	98.03		241
Fe	57	239.147715	ug/L	99.231		241
Ge	72		ug/L		89.122	
Ho	165		ug/L		93.145	
In	115		ug/L		89.862	
Sc	45		ug/L		93.07	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 22:03:40
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10072.7387	ug/L	100.727		10000
Ca	44	10952.3783	ug/L	109.524		10000
Fe	54	10206.8512	ug/L	102.069		10000
Fe	56	10042.2978	ug/L	100.423		10000
Ge	72		ug/L		94.586	
Ho	165		ug/L		95.928	
In	115		ug/L		93.189	
Mg	24	10156.6113	ug/L	101.566		10000
Mg	25	9987.61904	ug/L	99.876		10000
Na	23	10182.0068	ug/L	101.82		10000
Sc	45		ug/L		96.077	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 23:33:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10003.8754	ug/L	100.039		10000
Ca	44	10669.6801	ug/L	106.697		10000
Fe	54	9759.43554	ug/L	97.594		10000
Fe	56	9556.90106	ug/L	95.569		10000
Ge	72		ug/L		90.805	
Ho	165		ug/L		95.629	
In	115		ug/L		90.014	
Mg	24	9935.05165	ug/L	99.351		10000
Mg	25	9713.54015	ug/L	97.135		10000
Na	23	9844.06417	ug/L	98.441		10000
Sc	45		ug/L		95.333	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 00:50:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		87.174	
Ho	165		ug/L		90.083	
In	115		ug/L		88.755	
Mn	55	103.209128	ug/L	102.798		100
Sc	45		ug/L		87.286	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 02:21:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		84.253	
Ho	165		ug/L		88.767	
In	115		ug/L		87.242	
Mn	55	101.407433	ug/L	101.003		100
Sc	45		ug/L		84.976	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 00:57:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	255.14964	ug/L	97.758		261
Fe	54	242.966482	ug/L	100.816		241
Fe	56	256.802865	ug/L	106.557		241
Fe	57	243.611175	ug/L	101.083		241
Ge	72		ug/L		88.689	
Ho	165		ug/L		92.055	
In	115		ug/L		89.799	
Sc	45		ug/L		88.484	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 02:28:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	250.459206	ug/L	95.961		261
Fe	54	231.972135	ug/L	96.254		241
Fe	56	253.007992	ug/L	104.983		241
Fe	57	247.311975	ug/L	102.619		241
Ge	72		ug/L		85.112	
Ho	165		ug/L		90.007	
In	115		ug/L		86.857	
Sc	45		ug/L		84.784	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 01:03:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10206.1983	ug/L	102.062		10000
Ca	44	10834.1078	ug/L	108.341		10000
Fe	54	9812.10925	ug/L	98.121		10000
Fe	56	9722.09183	ug/L	97.221		10000
Ge	72		ug/L		92.248	
Ho	165		ug/L		94.51	
In	115		ug/L		90.695	
Mg	24	10316.7968	ug/L	103.168		10000
Mg	25	10146.2322	ug/L	101.462		10000
Na	23	10032.7837	ug/L	100.328		10000
Sc	45		ug/L		95.195	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 02:34:25
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10195.7436	ug/L	101.957		10000
Ca	44	11052.1775	ug/L	110.522		10000
Fe	54	9768.78946	ug/L	97.688		10000
Fe	56	9580.78899	ug/L	95.808		10000
Ge	72		ug/L		87.676	
Ho	165		ug/L		93.178	
In	115		ug/L		88.008	
Mg	24	10054.7446	ug/L	100.547		10000
Mg	25	10102.7576	ug/L	101.028		10000
Na	23	10192.0817	ug/L	101.921		10000
Sc	45		ug/L		90.361	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 03:52:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		85.705	
Ho	165		ug/L		88.935	
In	115		ug/L		87.026	
Mn	55	101.646839	ug/L	101.242		100
Sc	45		ug/L		86.754	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 05:23:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		88.715	
Ho	165		ug/L		92.062	
In	115		ug/L		88.844	
Mn	55	102.074017	ug/L	101.667		100
Sc	45		ug/L		89.924	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 03:58:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.022578	ug/L	93.878		261
Fe	54	233.553637	ug/L	96.91		241
Fe	56	251.965528	ug/L	104.55		241
Fe	57	246.001919	ug/L	102.075		241
Ge	72		ug/L		87.05	
Ho	165		ug/L		88.806	
In	115		ug/L		88.128	
Sc	45		ug/L		88.419	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 05:29:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	249.308178	ug/L	95.52		261
Fe	54	232.980879	ug/L	96.673		241
Fe	56	263.633303	ug/L	109.391		241
Fe	57	246.459145	ug/L	102.265		241
Ge	72		ug/L		86.682	
Ho	165		ug/L		90.655	
In	115		ug/L		87.966	
Sc	45		ug/L		90.278	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 04:05:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9918.1596	ug/L	99.182		10000
Ca	44	10613.2698	ug/L	106.133		10000
Fe	54	9474.74126	ug/L	94.747		10000
Fe	56	9246.39579	ug/L	92.464		10000
Ge	72		ug/L		89.768	
Ho	165		ug/L		91.441	
In	115		ug/L		87.766	
Mg	24	9992.75358	ug/L	99.928		10000
Mg	25	9692.79444	ug/L	96.928		10000
Na	23	9864.07804	ug/L	98.641		10000
Sc	45		ug/L		92.095	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 05:36:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10078.3115	ug/L	100.783		10000
Ca	44	10837.822	ug/L	108.378		10000
Fe	54	9685.44128	ug/L	96.854		10000
Fe	56	9549.35141	ug/L	95.494		10000
Ge	72		ug/L		93.21	
Ho	165		ug/L		94.84	
In	115		ug/L		87.987	
Mg	24	9898.17902	ug/L	98.982		10000
Mg	25	9999.70596	ug/L	99.997		10000
Na	23	10140.2359	ug/L	101.402		10000
Sc	45		ug/L		95.571	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 06:54:20
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.433	
Ho	165		ug/L		84.85	
In	115		ug/L		82.18	
Mn	55	101.120024	ug/L	100.717		100
Sc	45		ug/L		82.533	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 08:25:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.52	
Ho	165		ug/L		85.688	
In	115		ug/L		82.522	
Mn	55	102.13096	ug/L	101.724		100
Sc	45		ug/L		84.366	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 07:00:44
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.18656	ug/L	93.941		261
Fe	54	227.914056	ug/L	94.57		241
Fe	56	271.588126	ug/L	112.692		241
Fe	57	238.729371	ug/L	99.058		241
Ge	72		ug/L		81.66	
Ho	165		ug/L		84.936	
In	115		ug/L		82.463	
Sc	45		ug/L		84.185	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 08:31:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.149223	ug/L	93.544		261
Fe	54	223.801239	ug/L	92.864		241
Fe	56	251.36644	ug/L	104.301		241
Fe	57	234.526576	ug/L	97.314		241
Ge	72		ug/L		83.956	
Ho	165		ug/L		87.077	
In	115		ug/L		84.971	
Sc	45		ug/L		85.39	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 07:07:09
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10028.8908	ug/L	100.289		10000
Ca	44	10730.8532	ug/L	107.309		10000
Fe	54	9706.89708	ug/L	97.069		10000
Fe	56	9658.50601	ug/L	96.585		10000
Ge	72		ug/L		86.381	
Ho	165		ug/L		88.016	
In	115		ug/L		83.773	
Mg	24	10100.807	ug/L	101.008		10000
Mg	25	9963.28239	ug/L	99.633		10000
Na	23	9987.97701	ug/L	99.88		10000
Sc	45		ug/L		89.332	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 08:38:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10348.5488	ug/L	103.485		10000
Ca	44	10910.5324	ug/L	109.105		10000
Fe	54	9926.81306	ug/L	99.268		10000
Fe	56	9621.71089	ug/L	96.217		10000
Ge	72		ug/L		86.844	
Ho	165		ug/L		87.529	
In	115		ug/L		83.565	
Mg	24	10206.7881	ug/L	102.068		10000
Mg	25	10021.9309	ug/L	100.219		10000
Na	23	10278.3793	ug/L	102.784		10000
Sc	45		ug/L		87.337	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 09:56:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.815	
Ho	165		ug/L		85.505	
In	115		ug/L		82.467	
Mn	55	100.292462	ug/L	99.893		100
Sc	45		ug/L		81.817	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 11:27:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		83.263	
Ho	165		ug/L		86.245	
In	115		ug/L		82.617	
Mn	55	97.804386	ug/L	97.415		100
Sc	45		ug/L		84.44	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 10:02:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	241.57943	ug/L	92.559		261
Fe	54	233.970347	ug/L	97.083		241
Fe	56	256.749267	ug/L	106.535		241
Fe	57	239.115813	ug/L	99.218		241
Ge	72		ug/L		82.894	
Ho	165		ug/L		85.646	
In	115		ug/L		83.41	
Sc	45		ug/L		83.553	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 11:34:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.371946	ug/L	92.863		261
Fe	54	229.909119	ug/L	95.398		241
Fe	56	255.808153	ug/L	106.144		241
Fe	57	237.941729	ug/L	98.731		241
Ge	72		ug/L		83.332	
Ho	165		ug/L		85.811	
In	115		ug/L		83.293	
Sc	45		ug/L		84.928	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 10:09:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10139.3856	ug/L	101.394		10000
Ca	44	10798.0704	ug/L	107.981		10000
Fe	54	9736.36796	ug/L	97.364		10000
Fe	56	9598.96361	ug/L	95.99		10000
Ge	72		ug/L		84.589	
Ho	165		ug/L		86.965	
In	115		ug/L		83.539	
Mg	24	10021.9273	ug/L	100.219		10000
Mg	25	9936.44175	ug/L	99.364		10000
Na	23	10063.0831	ug/L	100.631		10000
Sc	45		ug/L		85.595	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 11:40:26
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9987.57075	ug/L	99.876		10000
Ca	44	10824.1353	ug/L	108.241		10000
Fe	54	9813.1487	ug/L	98.131		10000
Fe	56	9357.55451	ug/L	93.576		10000
Ge	72		ug/L		85.557	
Ho	165		ug/L		87.517	
In	115		ug/L		82.521	
Mg	24	9993.66247	ug/L	99.937		10000
Mg	25	10047.3328	ug/L	100.473		10000
Na	23	10083.1648	ug/L	100.832		10000
Sc	45		ug/L		87.293	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 12:58:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		78.234	
Ho	165		ug/L		82.769	
In	115		ug/L		80.199	
Mn	55	100.518983	ug/L	100.119		100
Sc	45		ug/L		79.051	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 13:37:35
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.72	
Ho	165		ug/L		86.027	
In	115		ug/L		83.828	
Mn	55	100.217078	ug/L	99.818		100
Sc	45		ug/L		81.428	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:05:12
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.136557	ug/L	92.773		261
Fe	54	231.813932	ug/L	96.188		241
Fe	56	280.099294	ug/L	116.224		241
Fe	57	245.458443	ug/L	101.85		241
Ge	72		ug/L		79.536	
Ho	165		ug/L		83.158	
In	115		ug/L		80.708	
Sc	45		ug/L		79.539	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:43:59
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	248.600398	ug/L	95.249		261
Fe	54	236.544791	ug/L	98.151		241
Fe	56	288.951988	ug/L	119.897		241
Fe	57	252.889631	ug/L	104.933		241
Ge	72		ug/L		80.194	
Ho	165		ug/L		85.602	
In	115		ug/L		82.25	
Sc	45		ug/L		79.333	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:11:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9737.32035	ug/L	97.373		10000
Ca	44	10568.1286	ug/L	105.681		10000
Fe	54	9547.97255	ug/L	95.48		10000
Fe	56	9594.99872	ug/L	95.95		10000
Ge	72		ug/L		84.136	
Ho	165		ug/L		85.935	
In	115		ug/L		82.595	
Mg	24	9701.60503	ug/L	97.016		10000
Mg	25	9694.41781	ug/L	96.944		10000
Na	23	9901.93632	ug/L	99.019		10000
Sc	45		ug/L		86.644	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:50:24
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10063.1198	ug/L	100.631		10000
Ca	44	10859.6103	ug/L	108.596		10000
Fe	54	9754.19231	ug/L	97.542		10000
Fe	56	9498.05269	ug/L	94.981		10000
Ge	72		ug/L		83.516	
Ho	165		ug/L		85.474	
In	115		ug/L		82.078	
Mg	24	9898.04058	ug/L	98.98		10000
Mg	25	9945.35833	ug/L	99.454		10000
Na	23	9963.49099	ug/L	99.635		10000
Sc	45		ug/L		86.097	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 18:38:10
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.762981	ug/L		< 50
Ca	44	5.370319	ug/L		< 50
Fe	54	7.177708	ug/L		< 50
Fe	56	5.286731	ug/L		< 50
Fe	57	-0.778852	ug/L		< 50
Ge	72		ug/L	97.399	
Ho	165		ug/L	100.936	
In	115		ug/L	98.844	
Mg	24	0.043825	ug/L		< 50
Mg	25	0.070452	ug/L		< 50
Mn	55	-0.001824	ug/L		< 5
Na	23	-1.054749	ug/L		< 5000
Sc	45		ug/L	99.7	

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 20:14:34
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.846713	ug/L		< 50
Ca	44	0.273469	ug/L		< 50
Fe	54	3.753112	ug/L		< 50
Fe	56	-1.5092	ug/L		< 50
Fe	57	-1.532881	ug/L		< 50
Ge	72		ug/L	100.329	
Ho	165		ug/L	102.074	
In	115		ug/L	99.455	
Mg	24	-0.016678	ug/L		< 50
Mg	25	-0.013059	ug/L		< 50
Mn	55	-0.011139	ug/L		< 5
Na	23	-1.221769	ug/L		< 5000
Sc	45		ug/L	102.831	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 21:44:26
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.848913	ug/L		< 50
Ca	44	-0.932593	ug/L		< 50
Fe	54	4.967352	ug/L		< 50
Fe	56	1.077024	ug/L		< 50
Fe	57	-3.007094	ug/L		< 50
Ge	72		ug/L	98.741	
Ho	165		ug/L	102.173	
In	115		ug/L	100.354	
Mg	24	-0.001243	ug/L		< 50
Mg	25	0.01821	ug/L		< 50
Mn	55	-0.004059	ug/L		< 5
Na	23	-1.00803	ug/L		< 5000
Sc	45		ug/L	103.291	

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 23:14:22
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.737747	ug/L		< 50
Ca	44	-1.940492	ug/L		< 50
Fe	54	4.448004	ug/L		< 50
Fe	56	-9.052308	ug/L		< 50
Fe	57	-7.100305	ug/L		< 50
Ge	72		ug/L	89.302	
Ho	165		ug/L	93.486	
In	115		ug/L	91.565	
Mg	24	0.051856	ug/L		< 50
Mg	25	0.048126	ug/L		< 50
Mn	55	0.000192	ug/L		< 5
Na	23	-0.643553	ug/L		< 5000
Sc	45		ug/L	93.625	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 00:44:21
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.82467	ug/L		< 50
Ca	44	-5.59895	ug/L		< 50
Fe	54	8.136208	ug/L		< 50
Fe	56	0.763253	ug/L		< 50
Fe	57	-5.8138	ug/L		< 50
Ge	72		ug/L	89.407	
Ho	165		ug/L	93.797	
In	115		ug/L	91.624	
Mg	24	0.077979	ug/L		< 50
Mg	25	0.009773	ug/L		< 50
Mn	55	-0.008424	ug/L		< 5
Na	23	-0.374709	ug/L		< 5000
Sc	45		ug/L	92.926	

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 02:15:12
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.831116	ug/L		< 50
Ca	44	-3.329458	ug/L		< 50
Fe	54	9.263843	ug/L		< 50
Fe	56	12.144718	ug/L		< 50
Fe	57	-3.232825	ug/L		< 50
Ge	72		ug/L	86.408	
Ho	165		ug/L	91.194	
In	115		ug/L	88.971	
Mg	24	0.009493	ug/L		< 50
Mg	25	0.037663	ug/L		< 50
Mn	55	0.019377	ug/L		< 5
Na	23	-0.041478	ug/L		< 5000
Sc	45		ug/L	88.465	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 03:46:04
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.825339	ug/L		< 50
Ca	44	-7.940643	ug/L		< 50
Fe	54	7.079365	ug/L		< 50
Fe	56	0.89331	ug/L		< 50
Fe	57	-5.024962	ug/L		< 50
Ge	72		ug/L	90.104	
Ho	165		ug/L	94.277	
In	115		ug/L	89.99	
Mg	24	0.037558	ug/L		< 50
Mg	25	0.023138	ug/L		< 50
Mn	55	0.070064	ug/L		< 5
Na	23	0.889554	ug/L		< 5000
Sc	45		ug/L	90.813	

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 05:16:58
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.834975	ug/L		< 50
Ca	44	-11.595541	ug/L		< 50
Fe	54	9.351822	ug/L		< 50
Fe	56	12.318339	ug/L		< 50
Fe	57	-4.170961	ug/L		< 50
Ge	72		ug/L	89.057	
Ho	165		ug/L	94.243	
In	115		ug/L	89.791	
Mg	24	0.084296	ug/L		< 50
Mg	25	0.113633	ug/L		< 50
Mn	55	0.028048	ug/L		< 5
Na	23	4.137292	ug/L		< 5000
Sc	45		ug/L	94.95	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 06:47:55
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.794713	ug/L		< 50
Ca	44	-8.98912	ug/L		< 50
Fe	54	8.991527	ug/L		< 50
Fe	56	25.903916	ug/L		< 50
Fe	57	-5.92038	ug/L		< 50
Ge	72		ug/L	85.408	
Ho	165		ug/L	89.877	
In	115		ug/L	84.53	
Mg	24	0.224152	ug/L		< 50
Mg	25	0.229947	ug/L		< 50
Mn	55	0.026233	ug/L		< 5
Na	23	3.823404	ug/L		< 5000
Sc	45		ug/L	87.198	

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 08:18:58
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.781539	ug/L		< 50
Ca	44	-7.76439	ug/L		< 50
Fe	54	11.546793	ug/L		< 50
Fe	56	10.711752	ug/L		< 50
Fe	57	-3.65967	ug/L		< 50
Ge	72		ug/L	84.836	
Ho	165		ug/L	88.463	
In	115		ug/L	85.057	
Mg	24	0.146286	ug/L		< 50
Mg	25	0.124174	ug/L		< 50
Mn	55	0.111538	ug/L		< 5
Na	23	2.742379	ug/L		< 5000
Sc	45		ug/L	87.228	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 09:50:03
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.799773	ug/L		< 50
Ca	44	-0.661895	ug/L		< 50
Fe	54	12.806004	ug/L		< 50
Fe	56	21.201217	ug/L		< 50
Fe	57	-4.078429	ug/L		< 50
Ge	72		ug/L	83.6	
Ho	165		ug/L	86.679	
In	115		ug/L	84.114	
Mg	24	0.1595	ug/L		< 50
Mg	25	0.161189	ug/L		< 50
Mn	55	0.047615	ug/L		< 5
Na	23	3.076573	ug/L		< 5000
Sc	45		ug/L	82.606	

Sample ID: QC Std 1
Sample Date/Time: Saturday, September 08, 2012 11:21:11
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.668976	ug/L		< 50
Ca	44	-3.955676	ug/L		< 50
Fe	54	12.450988	ug/L		< 50
Fe	56	27.555675	ug/L		< 50
Fe	57	-2.815323	ug/L		< 50
Ge	72		ug/L	84.013	
Ho	165		ug/L	87.159	
In	115		ug/L	82.406	
Mg	24	0.28736	ug/L		< 50
Mg	25	0.287397	ug/L		< 50
Mn	55	0.052023	ug/L		< 5
Na	23	2.78854	ug/L		< 5000
Sc	45		ug/L	85.25	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID QC Std 1
Sample D: Saturday, September 08, 2012 12:52:22
Sample Description: Blank

v Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.780324	ug/L		< 50
Ca	44	-2.481456	ug/L		< 50
Fe	54	10.11744	ug/L		< 50
Fe	56	39.041042	ug/L		< 50
Fe	57	-3.173767	ug/L		< 50
Ge	72		ug/L	79.436	
Ho	165		ug/L	84.52	
In	115		ug/L	80.617	
Mg	24	0.440754	ug/L		< 50
Mg	25	0.366217	ug/L		< 50
Mn	55	0.030563	ug/L		< 5
Na	23	5.720763	ug/L		< 5000
Sc	45		ug/L	80.885	

CV sum
Sample Date/Time: Saturday, September 08, 2012 13:31:09
Sample Description: Blank

Concentration Results Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.755159	ug/L		< 50
Ca	44	-7.215805	ug/L		< 50
Fe	54	12.465994	ug/L		< 50
Fe	56	35.217536	ug/L		< 50
Fe	57	-2.171576	ug/L		< 50
Ge	72		ug/L	82.12	
Ho	165		ug/L	86.889	
In	115		ug/L	84.535	
Mg	24	0.515661	ug/L		< 50
Mg	25	0.485953	ug/L		< 50
Mn	55	0.029926	ug/L		< 5
Na	23	6.332975	ug/L		< 5000
Sc	45		ug/L	83.463	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID ICSA
Sample Da Friday, September 07, 2012 19:35:56
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	-0.00278	ug/L			< 1
Ag	109	-0.00177	ug/L			< 1
Al	27	49059.94	ug/L			50000
As	75	-0.14036	ug/L			< 1
Ba	137	0.102439	ug/L			< 1
Be	9	0.015344	ug/L			< 1
Ca	44	53262.34	ug/L			50000
Cd	111	0.056792	ug/L			< 1
Cd	114	0.053708	ug/L			< 1
Co	59	0.111072	ug/L			< 1
Cr	52	0.455798	ug/L			< 1
Cu	63	1.032771	ug/L			1.03
Cu	65	0.650015	ug/L			< 1
Fe	54	48811.77	ug/L			50000
Fe	56	48004.1	ug/L			50000
Fe	57	54242.44	ug/L			50000
Ge	72		ug/L		100.866	
Hg	200	0.048078	ug/L			< 0.1
Hg	202	0.053034	ug/L			< 0.1
Ho	165		ug/L		97.42	
In	115		ug/L		94.492	
K	39	48600.57	ug/L			50000
Mg	24	47947.38	ug/L			50000
Mg	25	47563.77	ug/L			50000
Mn	55	0.176795	ug/L			< 5
Na	23	49141.84	ug/L			50000
Ni	60	1.368041	ug/L			1.3
Ni	62	0.857476	ug/L			< 1
P	31	53514.52	ug/L			50000
Pb	208	0.10004	ug/L			< 1
Sb	121	0.065631	ug/L			< 1
Sb	123	0.064661	ug/L			< 1
Sc	45		ug/L		99.766	
Se	82	-0.05464	mg/L			< 1
Tl	205	-0.01314	ug/L			< 1
V	51	1.93374	ug/L			< 5
Zn	64	4.200555	ug/L			< 5
Zn	66	0.873629	ug/L			< 5
Zn	68	0.457485	ug/L			< 5

Sample ID ICSAB
Sample Da Friday, September 07, 2012 19:42:22
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	9.259829	ug/L	92.60		10
Ag	109	9.139858	ug/L	91.40		10
Al	27	49653.87	ug/L	99.31		50000
As	75	9.559282	ug/L	95.59		10
Ba	137	10.07839	ug/L	100.78		10
Be	9	9.783013	ug/L	97.83		10
Ca	44	52736.65	ug/L	105.47		50000
Cd	111	9.746973	ug/L	97.47		10
Cd	114	9.865336	ug/L	98.65		10
Co	59	9.439641	ug/L	94.40		10
Cr	52	9.913251	ug/L	99.13		10
Cu	63	9.592441	ug/L	85.60		10
Cu	65	9.172727	ug/L	91.73		10
Fe	54	48439	ug/L	96.88		50000
Fe	56	48469.59	ug/L	96.94		50000
Fe	57	55542.26	ug/L	111.08		50000
Ge	72		ug/L		101.189	
Hg	200	1.008409	ug/L	100.84		1
Hg	202	1.015906	ug/L	101.59		1
Ho	165		ug/L		97.75	
In	115		ug/L		93.4	
K	39	48397.61	ug/L	96.80		50000
Mg	24	48459.95	ug/L	96.92		50000
Mg	25	46399.7	ug/L	92.80		50000
Mn	55	9.589027	ug/L	95.89		10
Na	23	48247.39	ug/L	96.49		50000
Ni	60	10.4397	ug/L	90.72		10
Ni	62	9.837015	ug/L	98.37		10
P	31	52772.57	ug/L	105.55		50000
Pb	208	9.532929	ug/L	95.33		10
Sb	121	10.23088	ug/L	102.31		10
Sb	123	10.12516	ug/L	101.25		10
Sc	45		ug/L		99.102	
Se	82	9.789298	mg/L	97.89		10
Tl	205	9.397685	ug/L	94.11		10
V	51	11.92832	ug/L	99.95		10
Zn	64	13.34159	ug/L	91.41		10
Zn	66	9.975645	ug/L	99.76		10
Zn	68	9.479099	ug/L	94.79		10

for 113653

Sample ID: BLK

Sample Date/Time: Friday, September 07, 2012 10:34:16

Autosampler Position: 123

Sample Description: ~~8/29/12~~

Batch ID: 8/31/12

Method File: C:\Elandata\Method\tim.mth

Dataset File: C:\Elandata\Dataset\default\BLK.49209

Rerun

New run curve 9/7

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6842.574	ug/L	
Be	9	-0.005933	5.333	ug/L	0.012
B	10	0.357568	173.670	ug/L	0.082
B	11	0.369685	816.045	ug/L	0.020
C	12		730925.482	ug/L	
Na	23	5.005791	52814.906	ug/L	0.090
Mg	24	0.330018	2413.895	ug/L	0.019
Mg	25	0.254155	283.366	ug/L	0.160
Al	27	0.004799	8992.010	ug/L	0.016
Si	28		128024.559	ug/L	
P	31	-1.474275	12710.171	ug/L	1.441
S	32		111727884.364	ug/L	
Cl	35		15989392.058	ug/L	
K	39	-6.583399	905540.734	ug/L	1.169
Ca	44	43.990346	57164.935	ug/L	5.929
Sc	45		242331.601	ug/L	
Ti	47	-0.417630	603.693	ug/L	0.051
Ti	48	-0.053784	-3621.078	ug/L	0.025
V	51	1.024464	53139.153	ug/L	0.090
ClO	51		54714.826	ug/L	
Cr	52	0.074912	12827.319	ug/L	0.016
Cr	53	3.197608	17545.430	ug/L	0.181
Fe	54	14.001110	84787.909	ug/L	0.795
Mn	55	-0.906624	4179.336	ug/L	0.003
Fe	56	-2.707620	4200421.964	ug/L	4.413
Fe	57	-0.236079	13013.942	ug/L	0.661
Co	59	0.005272	803.043	ug/L	0.001
Ni	60	0.036540	194.671	ug/L	0.003
Ni	62	0.022513	73.668	ug/L	0.001
Cu	63	-0.066066	673.365	ug/L	0.010
Zn	64	0.557297	2689.552	ug/L	0.025
Cu	65	-0.001034	129.002	ug/L	0.003
Zn	66	0.559806	1568.151	ug/L	0.013
Zn	68	0.611395	1256.099	ug/L	0.003
Ge	72		201972.816	ug/L	
As	75	-0.064155	-458.122	ug/L	0.059
Se	74	16.646155	16577.147	mg/L	18.192
ArCl	77		1314.108	ug/L	
Br	79		3328.976	ug/L	

Br	81		35374.429	ug/L	
Y	89		541380.524	ug/L	
Mo	95	0.014770	122.002	ug/L	0.004
Rh	103		491754.012	ug/L	
Ag	107	0.665157	10385.047	ug/L	0.061
Ag	109	0.661304	9966.904	ug/L	0.052
Cd	111	0.023781	177.670	ug/L	0.002
Cd	114	0.029034	431.348	ug/L	0.001
In	115		608245.868	ug/L	
Sb	121	0.021611	357.011	ug/L	0.002
Sb	123	0.022702	288.414	ug/L	0.003
Ba	137	0.013297	146.336	ug/L	0.001
Ba	138	0.012334	793.608	ug/L	0.000
Tb	159		674124.114	ug/L	
Ho	165		639165.123	ug/L	
Hg	200	-0.001271	22.667	ug/L	0.004
Hg	202	-0.002631	25.667	ug/L	0.001
Tl	205	0.022597	1606.825	ug/L	0.004
Pb	208	-0.003082	1150.707	ug/L	0.000
Bi	209		523834.838	ug/L	
Se	77	1.814301	1248.086	mg/L	0.733
Se	78	0.138620	19823.836	mg/L	0.263
Se	82	-0.099385	-22.815	mg/L	0.095

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		109.208
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 100.722
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 96.624
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 98.673
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

for 113653

Sample ID: LCS
Sample Date/Time: Friday, September 07, 2012 10:47:22
Autosampler Position: 125
Sample Description: 8/31/12
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\LCS.49211

also run w/ Cal 9/7

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6938.647	ug/L	
Be	9	1002.682030	313530.491	ug/L	9.151
B	10	0.594341	186.670	ug/L	0.181
B	11	0.070930	673.365	ug/L	0.063
C	12		1624685.372	ug/L	
Na	23	11459.563391	89140105.837	ug/L	590.515
Mg	24	11732.935471	62173799.598	ug/L	291.744
Mg	25	11339.019628	8303661.544	ug/L	534.686
Al	27	11931.345381	96130749.268	ug/L	403.230
Si	28		136517.652	ug/L	
P	31	10447.603621	5199578.267	ug/L	519.169
S	32		114245931.904	ug/L	
Cl	35		13882615.022	ug/L	
K	39	11015.338580	145434671.558	ug/L	146.402
Ca	44	12457.730082	4677589.973	ug/L	480.677
Sc	45		233709.403	ug/L	
Ti	47	22.902041	23548.091	ug/L	0.999
Ti	48	9.752271	100611.366	ug/L	0.384
V	51	1079.061793	14956080.100	ug/L	34.526
ClO	51		15445739.632	ug/L	
Cr	52	1076.857598	12215354.906	ug/L	13.922
Cr	53	885.880672	1297902.016	ug/L	1.392
Fe	54	10684.704470	10550724.747	ug/L	237.918
Mn	55	1098.280103	19618715.261	ug/L	16.379
Fe	56	10895.591206	185357497.800	ug/L	100.543
Fe	57	12192.317301	4425078.914	ug/L	79.125
Co	59	1023.919294	13854692.079	ug/L	4.419
Ni	60	987.959870	2825204.300	ug/L	2.927
Ni	62	925.311592	394843.702	ug/L	6.160
Cu	63	934.777095	6185872.031	ug/L	13.890
Zn	64	997.531464	3031209.495	ug/L	11.539
Cu	65	934.461508	3005241.201	ug/L	10.316
Zn	66	892.876816	1614501.816	ug/L	1.315
Zn	68	894.377690	1147774.612	ug/L	13.276
Ge	72		195916.586	ug/L	
As	75	995.955782	1884736.183	ug/L	11.562
Se	74	-224.032036	25070.285	mg/L	13.150
ArCl	77		152455.288	ug/L	
Br	79		5154.513	ug/L	

Br	81		34822.607	ug/L	
Y	89		515692.616	ug/L	
Mo	95	1082.756544	5271253.132	ug/L	4.782
Rh	103		462227.514	ug/L	
Ag	107	60.932813	793876.937	ug/L	1.329
Ag	109	60.814771	764206.864	ug/L	0.288
Cd	111	1110.726256	3498756.490	ug/L	9.132
Cd	114	1079.450936	7892619.310	ug/L	3.988
In	115		583241.430	ug/L	
Sb	121	1075.797035	11641376.284	ug/L	2.215
Sb	123	1055.552357	8769858.621	ug/L	9.184
Ba	137	1036.637273	5307645.910	ug/L	1.786
Ba	138	1046.910206	34453873.086	ug/L	12.444
Tb	159		649381.090	ug/L	
Ho	165		621129.969	ug/L	
Hg	200	1.068354	2212.625	ug/L	0.015
Hg	202	1.079833	2915.163	ug/L	0.039
Tl	205	1096.266210	28476335.906	ug/L	24.852
Pb	208	1087.619870	38751182.969	ug/L	17.166
Bi	209		472632.306	ug/L	
Se	77	988.591450	148478.712	mg/L	3.635
Se	78	1055.341870	504027.351	mg/L	25.645
Se	82	1013.843139	212210.969	mg/L	12.128

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.323
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 97.702
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 92.652
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 95.889
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.14
Sample Date/Time: Friday, September 07, 2012 21:25:07
Autosampler Position: 33
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.14.49298

NatRA
Ca on .18

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6679.791	ug/L	
Be	9	0.003521	5.000	ug/L	0.005
B	10	37.753642	2674.420	ug/L	1.567
B	11	38.308047	13512.505	ug/L	0.498
C	12		372971.200	ug/L	
Na	23	10042.817588	75771189.534	ug/L	329.257
Mg	24	2475.220456	12686378.786	ug/L	36.436
Mg	25	2163.413344	1588952.899	ug/L	35.418
Al	27	0.906059	15558.946	ug/L	0.649
Si	28		4774454.311	ug/L	
P	31	9.597595	14065.625	ug/L	1.484
S	32		100102486.538	ug/L	
Cl	35		11308068.658	ug/L	
K	39	2475.915595	32119554.825	ug/L	44.371
Ca	44	4877.221347	1821383.041	ug/L	72.118
Sc	45		231118.337	ug/L	
Ti	47	0.361135	630.362	ug/L	0.029
Ti	48	5.034000	50066.475	ug/L	0.007
V	51	0.549651	44923.185	ug/L	0.067
ClO	51		45964.707	ug/L	
Cr	52	0.013810	11574.960	ug/L	0.012
Cr	53	1.568616	14728.070	ug/L	0.252
Fe	54	978.744661	1002694.413	ug/L	3.441
Mn	55	14.255542	259471.255	ug/L	0.117
Fe	56	1006.909353	21062750.507	ug/L	22.340
Fe	57	1038.207410	385359.896	ug/L	18.466
Co	59	0.061576	1555.149	ug/L	0.004
Ni	60	0.897159	2581.726	ug/L	0.018
Ni	62	0.843906	399.679	ug/L	0.055
Cu	63	0.149295	1436.128	ug/L	0.002
Zn	64	0.447896	2035.769	ug/L	0.035
Cu	65	0.016656	189.004	ug/L	0.004
Zn	66	0.405374	1106.412	ug/L	0.013
Zn	68	0.771318	1289.438	ug/L	0.009
Ge	72		197715.091	ug/L	
As	75	5.315617	9681.133	ug/L	0.012
Se	74	73.592849	20648.620	mg/L	6.899
ArCl	77		1060.739	ug/L	
Br	79		34781.102	ug/L	

Br	81		63685.980	ug/L	
Y	89		531011.972	ug/L	
Mo	95	0.305632	1432.461	ug/L	0.006
Rh	103		459889.535	ug/L	
Ag	107	-0.097016	932.392	ug/L	0.016
Ag	109	-0.098267	877.718	ug/L	0.012
Cd	111	0.016811	138.336	ug/L	0.003
Cd	114	0.012851	299.675	ug/L	0.000
In	115		569903.195	ug/L	
Sb	121	0.013771	352.010	ug/L	0.001
Sb	123	0.012987	265.825	ug/L	0.001
Ba	137	10.608592	52649.551	ug/L	0.097
Ba	138	10.728203	343681.410	ug/L	0.001
Tb	159		650462.889	ug/L	
Ho	165		620044.563	ug/L	
Hg	200	-0.002660	19.334	ug/L	0.000
Hg	202	-0.002287	22.667	ug/L	0.001
Tl	205	-0.003090	1296.439	ug/L	0.006
Pb	208	0.015708	1782.420	ug/L	0.008
Bi	209		475842.580	ug/L	
Se	77	0.190655	1018.724	mg/L	0.485
Se	78	-0.006680	19580.728	mg/L	0.004
Se	82	0.410254	85.553	mg/L	0.036

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		101.514
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 96.330
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 97.951
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 99.650
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.15
Sample Date/Time: Friday, September 07, 2012 21:31:33
Autosampler Position: 34
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.15.49299

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6435.612	ug/L	
Be	9	0.001104	4.333	ug/L	0.002
B	10	6.280562	508.686	ug/L	0.317
B	11	6.177031	2466.359	ug/L	0.246
C	12		380990.250	ug/L	
Na	23	22585.958524	169646941.735	ug/L	865.403
Mg	24	282.061322	1440410.808	ug/L	4.451
Mg	25	275.105501	201273.922	ug/L	10.165
Al	27	7.579698	68651.756	ug/L	0.239
Si	28		2950672.444	ug/L	
P	31	4.391286	11728.746	ug/L	2.085
S	32		104220715.205	ug/L	
Cl	35		11215633.334	ug/L	
K	39	610.882524	8612207.959	ug/L	9.868
Ca	44	570.492366	237160.665	ug/L	4.528
Sc	45		230223.285	ug/L	
Ti	47	0.213353	486.018	ug/L	0.024
Ti	48	0.583893	4006.387	ug/L	0.079
V	51	0.580667	45171.432	ug/L	0.015
ClO	51		46151.364	ug/L	
Cr	52	0.089168	12367.082	ug/L	0.035
Cr	53	1.685353	14832.576	ug/L	0.062
Fe	54	22.819947	91076.867	ug/L	2.870
Mn	55	6.212629	114305.627	ug/L	0.072
Fe	56	18.586062	4407356.495	ug/L	2.423
Fe	57	15.966981	18985.034	ug/L	1.601
Co	59	0.027682	1107.745	ug/L	0.006
Ni	60	0.633269	1836.204	ug/L	0.022
Ni	62	0.644355	316.009	ug/L	0.016
Cu	63	0.332462	2610.734	ug/L	0.007
Zn	64	0.309010	1611.663	ug/L	0.006
Cu	65	0.031805	235.339	ug/L	0.002
Zn	66	0.322550	957.060	ug/L	0.024
Zn	68	0.450224	890.386	ug/L	0.016
Ge	72		199342.166	ug/L	
As	75	0.161843	44.549	ug/L	0.070
Se	74	45.059358	17786.614	mg/L	42.895
ArCl	77		1096.077	ug/L	
Br	79		69548.787	ug/L	

Br	81		102369.918	ug/L	
Y	89		531020.540	ug/L	
Mo	95	0.034032	217.005	ug/L	0.002
Rh	103		455766.737	ug/L	
Ag	107	-0.087486	1045.404	ug/L	0.012
Ag	109	-0.093309	931.057	ug/L	0.013
Cd	111	0.005655	103.335	ug/L	0.002
Cd	114	0.002506	225.672	ug/L	0.002
In	115		567030.277	ug/L	
Sb	121	0.010204	313.342	ug/L	0.002
Sb	123	0.009411	236.412	ug/L	0.000
Ba	137	3.321493	16437.345	ug/L	0.101
Ba	138	3.330735	106348.264	ug/L	0.111
Tb	159		642577.648	ug/L	
Ho	165		621331.234	ug/L	
Hg	200	-0.001398	22.000	ug/L	0.002
Hg	202	-0.002912	21.000	ug/L	0.001
Tl	205	-0.006645	1208.093	ug/L	0.006
Pb	208	0.033031	2399.815	ug/L	0.008
Bi	209		455087.822	ug/L	
Se	77	0.867481	1113.402	mg/L	0.148
Se	78	0.361096	19754.478	mg/L	0.173
Se	82	0.835437	174.567	mg/L	0.147

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.121
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 97.123
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 97.457
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 99.857
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.16
Sample Date/Time: Friday, September 07, 2012 21:37:59
Autosampler Position: 35
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.16.49300

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6335.544	ug/L	
Be	9	-0.000593	4.000	ug/L	0.004
B	10	34.713677	2529.711	ug/L	0.045
B	11	35.468417	12864.893	ug/L	0.248
C	12		373289.716	ug/L	
Na	23	10061.576078	77898639.046	ug/L	214.286
Mg	24	1643.467143	8643240.805	ug/L	30.580
Mg	25	1401.907887	1056525.108	ug/L	12.580
Al	27	5.567058	54216.594	ug/L	0.042
Si	28		2851048.612	ug/L	
P	31	9.572003	14422.887	ug/L	1.306
S	32		108271104.833	ug/L	
Cl	35		10455742.948	ug/L	
K	39	919.872723	12863735.086	ug/L	10.303
Ca	44	3927.450879	1510696.144	ug/L	28.581
Sc	45		237157.674	ug/L	
Ti	47	0.521566	805.044	ug/L	0.028
Ti	48	4.276706	43331.506	ug/L	0.104
V	51	0.406103	44101.486	ug/L	0.024
ClO	51		44889.006	ug/L	
Cr	52	0.049216	12284.399	ug/L	0.002
Cr	53	0.814647	14048.989	ug/L	0.082
Fe	54	467.161138	528530.926	ug/L	10.842
Mn	55	411.385706	7598259.488	ug/L	4.311
Fe	56	503.751026	12921265.494	ug/L	2.399
Fe	57	507.218792	200189.978	ug/L	4.411
Co	59	0.529500	7860.809	ug/L	0.005
Ni	60	0.772276	2290.645	ug/L	0.021
Ni	62	0.675449	338.676	ug/L	0.049
Cu	63	0.212914	1895.883	ug/L	0.007
Zn	64	0.467165	2148.406	ug/L	0.011
Cu	65	0.090159	429.348	ug/L	0.000
Zn	66	0.419120	1160.086	ug/L	0.002
Zn	68	0.603045	1110.079	ug/L	0.041
Ge	72		202378.523	ug/L	
As	75	3.531788	6495.600	ug/L	0.043
Se	74	30.074374	16385.938	mg/L	19.557
ArCl	77		1056.739	ug/L	
Br	79		32424.799	ug/L	

Br	81		64759.021	ug/L	
Y	89		534079.744	ug/L	
Mo	95	2.142026	9892.145	ug/L	0.026
Rh	103		473599.149	ug/L	
Ag	107	-0.108118	813.711	ug/L	0.007
Ag	109	-0.107882	781.708	ug/L	0.006
Cd	111	0.020039	152.336	ug/L	0.007
Cd	114	0.015588	327.676	ug/L	0.001
In	115		585428.644	ug/L	
Sb	121	0.009312	314.342	ug/L	0.001
Sb	123	0.008165	233.951	ug/L	0.000
Ba	137	4.146619	21178.853	ug/L	0.014
Ba	138	4.134030	136254.501	ug/L	0.016
Tb	159		658104.156	ug/L	
Ho	165		627416.799	ug/L	
Hg	200	-0.002919	19.000	ug/L	0.002
Hg	202	-0.003720	19.000	ug/L	0.000
Tl	205	-0.003498	1302.441	ug/L	0.007
Pb	208	0.067841	3671.330	ug/L	0.007
Bi	209		476522.528	ug/L	
Se	77	-0.257382	956.050	mg/L	0.418
Se	78	1.061269	20085.262	mg/L	0.556
Se	82	0.333129	69.407	mg/L	0.081

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		104.167
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 98.602
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 100.620
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 100.835
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17
Sample Date/Time: Friday, September 07, 2012 22:10:05
Autosampler Position: 36
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17.49305

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6667.784	ug/L	
Be	9	0.008566	6.333	ug/L	0.009
B	10	32.715531	2326.321	ug/L	0.276
B	11	32.570167	11533.093	ug/L	0.497
C	12		371647.624	ug/L	
Na	23	9805.615377	73937857.466	ug/L	172.999
Mg	24	1356.252365	6946727.974	ug/L	17.209
Mg	25	1177.685415	864388.610	ug/L	9.809
Al	27	4.580507	44911.813	ug/L	0.091
Si	28		3464365.257	ug/L	
P	31	19.014635	18190.132	ug/L	4.570
S	32		99408134.030	ug/L	
Cl	35		10589815.236	ug/L	
K	39	873.881476	11949211.006	ug/L	1.173
Ca	44	2770.887974	1046240.781	ug/L	42.808
Sc	45		230969.471	ug/L	
Ti	47	0.560528	819.714	ug/L	0.333
Ti	48	2.798579	26923.778	ug/L	0.001
V	51	0.470463	43817.455	ug/L	0.076
ClO	51		44899.404	ug/L	
Cr	52	0.002468	11439.237	ug/L	0.015
Cr	53	1.253257	14282.356	ug/L	0.368
Fe	54	785.140119	817554.889	ug/L	11.288
Mn	55	46.689233	842444.926	ug/L	0.112
Fe	56	830.603123	18080668.318	ug/L	18.949
Fe	57	829.593985	310373.538	ug/L	20.720
Co	59	0.021528	1031.736	ug/L	0.001
Ni	60	0.582448	1700.843	ug/L	0.002
Ni	62	0.528020	269.007	ug/L	0.050
Cu	63	0.139064	1369.117	ug/L	0.003
Zn	64	0.603474	2501.991	ug/L	0.003
Cu	65	0.002356	144.336	ug/L	0.002
Zn	66	0.596640	1440.795	ug/L	0.013
Zn	68	0.886459	1430.460	ug/L	0.007
Ge	72		203027.405	ug/L	
As	75	0.360107	427.150	ug/L	0.047
Se	74	25.709824	15957.230	mg/L	12.400
ArCl	77		1053.072	ug/L	
Br	79		28160.878	ug/L	

Br	81		58923.991	ug/L	
Y	89		527397.636	ug/L	
Mo	95	0.320484	1539.479	ug/L	0.006
Rh	103		466677.230	ug/L	
Ag	107	0.113937	3618.758	ug/L	0.021
Ag	109	0.106980	3389.667	ug/L	0.019
Cd	111	0.004037	99.668	ug/L	0.003
Cd	114	0.002569	228.672	ug/L	0.001
In	115		573790.195	ug/L	
Sb	121	0.037580	601.693	ug/L	0.001
Sb	123	0.035962	450.301	ug/L	0.001
Ba	137	7.837168	39176.289	ug/L	0.036
Ba	138	7.883332	254359.296	ug/L	0.024
Tb	159		656140.158	ug/L	
Ho	165		624329.408	ug/L	
Hg	200	0.002791	31.000	ug/L	0.001
Hg	202	0.003161	37.667	ug/L	0.003
Tl	205	-0.004212	1275.769	ug/L	0.006
Pb	208	0.020753	1973.104	ug/L	0.007
Bi	209		476551.638	ug/L	
Se	77	0.591030	1074.730	mg/L	0.162
Se	78	0.532427	19835.420	mg/L	0.247
Se	82	0.199429	41.416	mg/L	0.023

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.449
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

98.919

98.619

100.339

Sample ID: 113653.18
Sample Date/Time: Friday, September 07, 2012 22:16:32
Autosampler Position: 37
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.18.49306

did not spike in sample

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6651.770	ug/L	
Be	9	-0.001605	3.667	ug/L	0.005
B	10	0.688854	128.336	ug/L	0.050
B	11	0.846267	655.364	ug/L	0.105
C	12		359498.999	ug/L	
Na	23	24.840785	209561.970	ug/L	0.390
Mg	24	0.983314	5729.044	ug/L	0.041
Mg	25	0.954758	806.783	ug/L	0.035
Al	27	0.031884	8671.669	ug/L	0.055
Si	28		209289.174	ug/L	
P	31	-2.496667	8878.571	ug/L	2.178
S	32		104336440.623	ug/L	
Cl	35		10287678.724	ug/L	
K	39	-3.183380	931627.489	ug/L	0.658
Ca	44	13.952238	33946.741	ug/L	6.763
Sc	45		234348.066	ug/L	
Ti	47	0.062803	347.677	ug/L	0.043
Ti	48	0.013152	-1898.072	ug/L	0.020
V	51	0.465248	44373.166	ug/L	0.139
ClO	51		45089.054	ug/L	
Cr	52	0.045455	12093.042	ug/L	0.025
Cr	53	1.280727	14528.746	ug/L	0.270
Fe	54	7.263140	77690.991	ug/L	0.907
Mn	55	-0.020269	2663.754	ug/L	0.018
Fe	56	2.549659	4212782.776	ug/L	1.325
Fe	57	-1.129020	13117.435	ug/L	0.514
Co	59	0.005048	829.046	ug/L	0.001
Ni	60	-0.003429	65.001	ug/L	0.003
Ni	62	0.001528	53.001	ug/L	0.048
Cu	63	0.012943	561.023	ug/L	0.007
Zn	64	0.073291	921.427	ug/L	0.005
Cu	65	0.002742	147.669	ug/L	0.001
Zn	66	0.062444	512.020	ug/L	0.006
Zn	68	0.094214	461.016	ug/L	0.015
Ge	72		204333.953	ug/L	
As	75	-0.009370	-285.301	ug/L	0.069
Se	74	10.740380	14356.993	mg/L	49.266
ArCl	77		1018.734	ug/L	
Br	79		3294.630	ug/L	

Br	81		34261.142	ug/L	
Y	89		541340.249	ug/L	
Mo	95	0.033681	220.672	ug/L	0.002
Rh	103		481124.623	ug/L	
Ag	107	-0.068497	1321.776	ug/L	0.004
Ag	109	-0.066395	1293.105	ug/L	0.006
Cd	111	0.008513	115.335	ug/L	0.001
Cd	114	0.004700	247.673	ug/L	0.000
In	115		582920.229	ug/L	
Sb	121	0.020434	430.348	ug/L	0.003
Sb	123	0.018298	314.785	ug/L	0.001
Ba	137	0.014439	137.002	ug/L	0.002
Ba	138	0.012700	759.311	ug/L	0.000
Tb	159		662043.988	ug/L	
Ho	165		625144.381	ug/L	
Hg	200	-0.000830	23.334	ug/L	0.002
Hg	202	-0.002591	22.000	ug/L	0.001
Tl	205	-0.002197	1329.445	ug/L	0.008
Pb	208	0.010866	1623.741	ug/L	0.008
Bi	209		492551.545	ug/L	
Se	77	0.123925	1009.389	mg/L	0.148
Se	78	1.306919	20201.315	mg/L	0.353
Se	82	0.004876	0.686	mg/L	0.122

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		102.932
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 99.555
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 100.188
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 100.470
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17 MS
Sample Date/Time: Friday, September 07, 2012 23:01:30
Autosampler Position: 44
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17 MS.49313

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6383.574	ug/L	
Be	9	986.109014	248049.413	ug/L	29.285
B	10	31.202998	2091.928	ug/L	0.398
B	11	32.597546	10861.595	ug/L	1.259
C	12		933663.160	ug/L	
Na	23	21258.354749	150803817.486	ug/L	492.272
Mg	24	12649.832444	60969575.008	ug/L	323.089
Mg	25	12688.171984	8764367.502	ug/L	1.452
Al	27	11339.031525	85303083.275	ug/L	463.051
Si	28		3483564.838	ug/L	
P	31	11127.096250	4594093.605	ug/L	34.908
S	32		103925415.862	ug/L	
Cl	35		12315316.728	ug/L	
K	39	12035.197905	143339332.097	ug/L	292.234
Ca	44	15261.140091	5302098.121	ug/L	602.106
Sc	45		217379.131	ug/L	
Ti	47	22.212888	20363.652	ug/L	0.244
Ti	48	11.715281	112147.658	ug/L	0.756
V	51	1104.937086	14116206.110	ug/L	8.214
ClO	51		14511107.756	ug/L	
Cr	52	1106.362622	11670254.666	ug/L	8.788
Cr	53	931.607261	1217852.761	ug/L	20.047
Fe	54	12017.862438	10840939.248	ug/L	51.061
Mn	55	1139.501794	19283241.388	ug/L	20.002
Fe	56	11363.758953	183766006.932	ug/L	235.114
Fe	57	13265.418690	4483318.336	ug/L	64.811
Co	59	1070.373478	13135861.227	ug/L	19.892
Ni	60	1026.013751	2697101.113	ug/L	31.123
Ni	62	956.404852	371144.723	ug/L	27.048
Cu	63	978.053789	5952487.609	ug/L	16.077
Zn	64	1029.659547	2914012.500	ug/L	15.154
Cu	65	970.292719	2847794.759	ug/L	21.921
Zn	66	928.507753	1531555.371	ug/L	24.988
Zn	68	936.286211	1085610.504	ug/L	16.682
Ge	72		188756.965	ug/L	
As	75	1003.859704	1791358.286	ug/L	22.820
Se	74	105.590016	22956.432	mg/L	12.237
ArCl	77		140754.048	ug/L	
Br	79		27690.741	ug/L	

Br	81		55096.396	ug/L	
Y	89		493114.223	ug/L	
Mo	95	1123.444784	4807536.912	ug/L	10.177
Rh	103		417494.060	ug/L	
Ag	107	879.539147	10210281.366	ug/L	18.549
Ag	109	892.410981	9955900.963	ug/L	23.341
Cd	111	1104.847060	3131180.992	ug/L	6.474
Cd	114	1095.333047	7109329.405	ug/L	11.249
In	115		524067.756	ug/L	
Sb	121	1114.076756	10569191.603	ug/L	3.461
Sb	123	1105.883971	8029489.745	ug/L	4.084
Ba	137	1122.960418	5118918.063	ug/L	3.715
Ba	138	1122.339021	33030652.604	ug/L	3.773
Tb	159		608598.730	ug/L	
Ho	165		583853.133	ug/L	
Hg	200	1.056749	2112.267	ug/L	0.019
Hg	202	1.055784	2731.771	ug/L	0.007
Tl	205	1121.324122	26918043.079	ug/L	3.618
Pb	208	1101.994031	36701293.784	ug/L	14.411
Bi	209		436819.973	ug/L	
Se	77	984.376098	138691.271	mg/L	3.599
Se	78	949.921611	468357.683	mg/L	4.639
Se	82	931.793648	195074.644	mg/L	12.512

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		95.479
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.966
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.073
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.833
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17 MSD
Sample Date/Time: Friday, September 07, 2012 23:07:55
Autosampler Position: 45
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17 MSD.49314

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6327.537	ug/L	
Be	9	949.234335	241660.699	ug/L	12.552
B	10	30.698738	2083.593	ug/L	0.006
B	11	31.202328	10536.875	ug/L	0.414
C	12		916726.043	ug/L	
Na	23	21101.163129	151490091.522	ug/L	139.383
Mg	24	12611.452660	61513758.132	ug/L	257.731
Mg	25	12266.445364	8573318.619	ug/L	204.703
Al	27	11086.957954	84417752.889	ug/L	105.150
Si	28		3407123.163	ug/L	
P	31	11087.556921	4632028.481	ug/L	232.751
S	32		103789737.786	ug/L	
Cl	35		12683099.378	ug/L	
K	39	11911.937846	143586326.925	ug/L	24.276
Ca	44	15607.959453	5487817.602	ug/L	113.442
Sc	45		219958.542	ug/L	
Ti	47	22.089778	20494.618	ug/L	0.324
Ti	48	9.644388	93034.850	ug/L	0.296
V	51	1082.318646	13992940.289	ug/L	8.421
ClO	51		14336983.668	ug/L	
Cr	52	1054.312824	11253831.050	ug/L	21.663
Cr	53	899.369632	1190217.790	ug/L	9.331
Fe	54	11284.534225	10304052.916	ug/L	42.977
Mn	55	1095.328233	18757869.272	ug/L	1.963
Fe	56	11099.508457	181737088.749	ug/L	23.590
Fe	57	13035.833041	4458369.223	ug/L	4.735
Co	59	1034.635985	12849507.818	ug/L	1.490
Ni	60	994.356401	2645368.515	ug/L	11.772
Ni	62	923.726786	362784.303	ug/L	2.621
Cu	63	940.634010	5793240.051	ug/L	6.871
Zn	64	994.685297	2848705.769	ug/L	5.067
Cu	65	937.155795	2783602.538	ug/L	1.388
Zn	66	895.927588	1495614.415	ug/L	4.431
Zn	68	903.969569	1060725.991	ug/L	5.919
Ge	72		183424.150	ug/L	
As	75	1004.883212	1742493.368	ug/L	22.945
Se	74	150.522021	26747.702	mg/L	16.173
ArCl	77		138154.894	ug/L	
Br	79		26885.343	ug/L	

Br	81		53336.544	ug/L	
Y	89		482504.938	ug/L	
Mo	95	1139.030123	4736746.922	ug/L	1.810
Rh	103		415376.716	ug/L	
Ag	107	875.339093	10058896.111	ug/L	18.143
Ag	109	851.301036	9401105.653	ug/L	23.814
Cd	111	1102.858756	3094259.159	ug/L	1.228
Cd	114	1090.148334	7004829.405	ug/L	2.809
In	115		518821.441	ug/L	
Sb	121	1108.265856	10408096.713	ug/L	12.930
Sb	123	1096.251636	7879218.932	ug/L	17.170
Ba	137	1109.630671	5006889.361	ug/L	24.323
Ba	138	1105.858820	32217095.720	ug/L	17.658
Tb	159		607906.540	ug/L	
Ho	165		574093.594	ug/L	
Hg	200	1.059286	2081.592	ug/L	0.013
Hg	202	1.086424	2763.448	ug/L	0.007
Tl	205	1131.514909	26709521.977	ug/L	9.765
Pb	208	1103.211693	36131559.394	ug/L	6.226
Bi	209		442966.809	ug/L	
Se	77	969.735500	136643.274	mg/L	3.995
Se	78	922.983465	455631.228	mg/L	10.966
Se	82	912.117199	190955.296	mg/L	1.487

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.612
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 89.367
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.172
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 92.265
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.01
Sample Date/Time: Saturday, September 08, 2012 00:18:38
Autosampler Position: 52
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.01.49325

Be CCV's low

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5737.812	ug/L	
Be	9	0.011751	7.667	ug/L	0.008
B	10	107.984459	7992.258	ug/L	1.464
B	11	109.672493	40511.137	ug/L	0.165
C	12		554436.444	ug/L	
Na	23	9953.400340	80003212.757	ug/L	143.156
Mg	24	8222.878291	44900373.994	ug/L	145.241
Mg	25	8137.828755	6367791.566	ug/L	35.061
Al	27	67.889632	587439.763	ug/L	1.949
Si	28		26971012.596	ug/L	
P	31	275.947282	139306.395	ug/L	0.988
S	32		107089907.464	ug/L	
Cl	35		10826368.791	ug/L	
K	39	13025.621405	175670955.138	ug/L	183.227
Ca	44	29907.054100	11743861.160	ug/L	271.530
Sc	45		246245.203	ug/L	
Ti	47	6.531472	6995.761	ug/L	0.094
Ti	48	25.200050	275489.158	ug/L	3.196
V	51	0.282989	44014.733	ug/L	0.013
ClO	51		45073.917	ug/L	
Cr	52	0.395555	16888.950	ug/L	0.020
Cr	53	-0.096234	13249.118	ug/L	0.332
Fe	54	10466.067606	10704139.556	ug/L	9.691
Mn	55	617.235710	11835075.027	ug/L	0.512
Fe	56	10093.806747	185394725.656	ug/L	378.552
Fe	57	11618.941556	4450176.977	ug/L	29.921
Co	59	1.658000	23851.152	ug/L	0.010
Ni	60	3.905033	11708.986	ug/L	0.000
Ni	62	3.384543	1542.813	ug/L	0.067
Cu	63	0.893355	6659.838	ug/L	0.006
Zn	64	4.602237	15484.236	ug/L	0.108
Cu	65	0.844783	2954.843	ug/L	0.011
Zn	66	4.376451	8599.153	ug/L	0.112
Zn	68	5.147619	7121.193	ug/L	0.068
Ge	72		188628.852	ug/L	
As	75	40.283926	71611.666	ug/L	0.444
Se	74	3.947393	12612.126	mg/L	40.299
ArCl	77		918.389	ug/L	
Br	79		45553.543	ug/L	

Br	81		74390.968	ug/L	
Y	89		492410.185	ug/L	
Mo	95	0.524932	2304.648	ug/L	0.004
Rh	103		422205.856	ug/L	
Ag	107	-0.117576	628.361	ug/L	0.005
Ag	109	-0.116505	613.027	ug/L	0.004
Cd	111	0.030194	167.670	ug/L	0.000
Cd	114	0.044107	485.685	ug/L	0.005
In	115		532110.166	ug/L	
Sb	121	0.079839	965.061	ug/L	0.000
Sb	123	0.076795	718.521	ug/L	0.004
Ba	137	26.473703	122585.175	ug/L	0.103
Ba	138	26.161690	782048.479	ug/L	0.259
Tb	159		612213.480	ug/L	
Ho	165		587871.264	ug/L	
Hg	200	0.000197	24.000	ug/L	0.002
Hg	202	-0.000409	26.334	ug/L	0.001
Tl	205	-0.005690	1166.421	ug/L	0.008
Pb	208	0.210611	8227.196	ug/L	0.002
Bi	209		455332.322	ug/L	
Se	77	-0.724481	890.710	mg/L	0.108
Se	78	-2.108979	18587.534	mg/L	0.271
Se	82	0.470212 ✓	98.106	mg/L	0.050

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		108.158
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.903
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.456
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 94.479
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.02
Sample Date/Time: Saturday, September 08, 2012 00:25:03
Autosampler Position: 53
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.02.49326

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5716.464	ug/L	
Be	9	0.005090	5.333	ug/L	0.004
B	10	190.679656	13007.095	ug/L	4.455
B	11	202.040073	68800.724	ug/L	4.687
C	12		681258.349	ug/L	
Na	23	35708.630058	265715502.881	ug/L	688.948
Mg	24	13961.834338	70571773.997	ug/L	534.321
Mg	25	13625.027669	9871924.069	ug/L	207.522
Al	27	13.651780	115845.364	ug/L	0.956
Si	28		19392408.959	ug/L	
P	31	22.486337	19409.419	ug/L	6.145
S	32		108358896.530	ug/L	
Cl	35		11777068.935	ug/L	
K	39	11086.256541	138568215.327	ug/L	301.504
Ca	44	40774.343705	14815706.221	ug/L	691.533
Sc	45		228068.058	ug/L	
Ti	47	1.669986	1863.876	ug/L	0.044
Ti	48	24.737485	250207.348	ug/L	2.141
V	51	1.159729	52462.130	ug/L	0.130
ClO	51		53272.836	ug/L	
Cr	52	0.685171	18837.683	ug/L	0.045
Cr	53	0.862270	13565.917	ug/L	0.418
Fe	54	24481.079621	23073835.570	ug/L	1616.460
Mn	55	712.735330	12648842.447	ug/L	29.191
Fe	56	24595.155068	412284550.928	ug/L	1304.670
Fe	57	27784.984465	9832780.498	ug/L	974.989
Co	59	5.952166	77372.706	ug/L	0.061
Ni	60	8.709075	24086.775	ug/L	0.224
Ni	62	8.133579	3360.655	ug/L	0.288
Cu	63	0.572095	4115.973	ug/L	0.010
Zn	64	3.030725	9673.284	ug/L	0.076
Cu	65	0.224818	827.713	ug/L	0.002
Zn	66	2.917363	5434.345	ug/L	0.164
Zn	68	4.707963	6058.746	ug/L	0.092
Ge	72		187512.866	ug/L	
As	75	73.619114	130297.925	ug/L	0.070
Se	74	-48.307817	7255.185	mg/L	2.020
ArCl	77		997.731	ug/L	
Br	79		234060.792	ug/L	

Br	81		275358.978	ug/L	
Y	89		503531.103	ug/L	
Mo	95	1.804043	7728.361	ug/L	0.026
Rh	103		416044.872	ug/L	
Ag	107	-0.112990	661.364	ug/L	0.002
Ag	109	-0.111203	652.363	ug/L	0.002
Cd	111	0.031793	167.003	ug/L	0.000
Cd	114	0.032380	396.013	ug/L	0.002
In	115		515837.807	ug/L	
Sb	121	0.112341	1239.097	ug/L	0.007
Sb	123	0.113344	957.831	ug/L	0.002
Ba	137	70.018949	314214.018	ug/L	0.197
Ba	138	72.094353	2088838.987	ug/L	5.021
Tb	159		609399.455	ug/L	
Ho	165		578759.040	ug/L	
Hg	200	-0.001330	20.667	ug/L	0.001
Hg	202	-0.000374	26.000	ug/L	0.001
Tl	205	-0.004899	1165.420	ug/L	0.007
Pb	208	0.054463	2941.885	ug/L	0.005
Bi	209		430899.551	ug/L	
Se	77	-0.181120	966.718	mg/L	0.391
Se	78	-2.023698	18627.823	mg/L	0.329
Se	82	2.750671	575.530	mg/L	0.054

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		100.174
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	91.360
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	88.659
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	93.015
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.03
Sample Date/Time: Saturday, September 08, 2012 00:31:29
Autosampler Position: 54
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.03.49327

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6056.687	ug/L	
Be	9	0.032038	12.667	ug/L	0.004
B	10	105.564165	7356.382	ug/L	0.251
B	11	113.814251	39558.280	ug/L	1.258
C	12		587248.968	ug/L	
Na	23	38146.951804	288568428.284	ug/L	298.737
Mg	24	8004.556807	41143755.011	ug/L	156.925
Mg	25	7948.538101	5854291.634	ug/L	67.377
Al	27	2.532232	28641.240	ug/L	0.015
Si	28		17585924.546	ug/L	
P	31	199.204776	97409.038	ug/L	7.110
S	32		104795351.763	ug/L	
Cl	35		11101084.297	ug/L	
K	39	4386.345556	56323054.042	ug/L	11.211
Ca	44	11141.380204	4136026.408	ug/L	95.506
Sc	45		231782.923	ug/L	
Ti	47	1.291240	1529.477	ug/L	0.073
Ti	48	7.454535	75322.630	ug/L	0.387
V	51	0.166247	39843.879	ug/L	0.071
ClO	51		40483.012	ug/L	
Cr	52	-0.024021	11182.894	ug/L	0.013
Cr	53	0.022296	12636.237	ug/L	0.182
Fe	54	6151.545072	5950769.735	ug/L	32.513
Mn	55	200.340566	3617797.699	ug/L	0.124
Fe	56	6057.241250	106383253.595	ug/L	44.505
Fe	57	7015.525402	2534531.962	ug/L	36.992
Co	59	0.861588	12028.740	ug/L	0.011
Ni	60	2.940811	8318.220	ug/L	0.023
Ni	62	2.719130	1176.755	ug/L	0.021
Cu	63	0.483246	3607.418	ug/L	0.008
Zn	64	1.523694	5287.360	ug/L	0.003
Cu	65	0.081552	392.679	ug/L	0.006
Zn	66	1.444922	2937.837	ug/L	0.045
Zn	68	2.470385	3393.334	ug/L	0.025
Ge	72		182722.063	ug/L	
As	75	4.644091	7786.626	ug/L	0.036
Se	74	-10.116651	10826.210	mg/L	18.204
ArCl	77		914.722	ug/L	
Br	79		105257.357	ug/L	

Br	81		137715.032	ug/L	
Y	89		485110.932	ug/L	
Mo	95	2.470055	10290.257	ug/L	0.017
Rh	103		416998.781	ug/L	
Ag	107	-0.114756	652.030	ug/L	0.002
Ag	109	-0.121997	543.022	ug/L	0.003
Cd	111	0.053348	231.005	ug/L	0.003
Cd	114	0.046622	495.352	ug/L	0.006
In	115		524591.499	ug/L	
Sb	121	0.031562	493.018	ug/L	0.002
Sb	123	0.031934	382.424	ug/L	0.002
Ba	137	34.548469	157697.574	ug/L	0.095
Ba	138	34.586008	1019200.384	ug/L	0.092
Tb	159		607489.980	ug/L	
Ho	165		580883.259	ug/L	
Hg	200	-0.001024	21.334	ug/L	0.001
Hg	202	-0.000673	25.334	ug/L	0.002
Tl	205	-0.007950	1098.744	ug/L	0.004
Pb	208	0.024705	1968.436	ug/L	0.005
Bi	209		428258.423	ug/L	
Se	77	-1.096250	838.706	mg/L	0.553
Se	78	-1.038486	19093.269	mg/L	0.056
Se	82	1.281523	267.957	mg/L	0.016

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.806
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 89.025
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.163
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.356
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.06
Sample Date/Time: Saturday, September 08, 2012 00:37:55
Autosampler Position: 55
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.06.49328

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5687.117	ug/L	
Be	9	0.003015	5.000	ug/L	0.002
B	10	116.148152	8295.199	ug/L	4.389
B	11	121.793520	43399.449	ug/L	4.905
C	12		569870.260	ug/L	
Na	23	31458.821254	244153426.259	ug/L	1041.866
Mg	24	10144.858256	53477402.195	ug/L	571.755
Mg	25	9776.009867	7386158.351	ug/L	397.425
Al	27	8.230358	76286.338	ug/L	0.303
Si	28		22414946.088	ug/L	
P	31	119.545318	64078.322	ug/L	1.778
S	32		104432213.382	ug/L	
Cl	35		11265863.056	ug/L	
K	39	9947.954355	129734033.631	ug/L	642.928
Ca	44	24083.145377	9138868.289	ug/L	735.911
Sc	45		237926.919	ug/L	
Ti	47	1.610759	1884.548	ug/L	0.118
Ti	48	16.690679	175685.059	ug/L	0.016
V	51	0.300016	42733.973	ug/L	0.140
ClO	51		43187.110	ug/L	
Cr	52	0.092577	12818.921	ug/L	0.028
Cr	53	-0.109991	12775.765	ug/L	0.342
Fe	54	11285.879264	11139025.836	ug/L	494.402
Mn	55	620.132167	11482823.909	ug/L	19.870
Fe	56	11096.001779	196432785.126	ug/L	316.317
Fe	57	12858.823708	4752992.179	ug/L	703.443
Co	59	1.623248	22565.530	ug/L	0.061
Ni	60	3.875904	11223.703	ug/L	0.125
Ni	62	3.486988	1533.811	ug/L	0.043
Cu	63	0.534336	4040.605	ug/L	0.025
Zn	64	2.239925	7642.624	ug/L	0.063
Cu	65	0.208310	809.711	ug/L	0.012
Zn	66	2.057661	4119.308	ug/L	0.087
Zn	68	3.106083	4287.387	ug/L	0.120
Ge	72		186490.765	ug/L	
As	75	54.233293	95399.318	ug/L	0.282
Se	74	6.121238	12689.099	mg/L	7.531
ArCl	77		936.058	ug/L	
Br	79		128568.867	ug/L	

Br	81		163630.973	ug/L	
Y	89		493740.053	ug/L	
Mo	95	1.365922	5834.263	ug/L	0.006
Rh	103		421161.919	ug/L	
Ag	107	-0.122420	567.357	ug/L	0.001
Ag	109	-0.120293	566.357	ug/L	0.004
Cd	111	0.040288	195.337	ug/L	0.009
Cd	114	0.040172	456.683	ug/L	0.006
In	115		528582.419	ug/L	
Sb	121	0.036422	543.022	ug/L	0.007
Sb	123	0.039109	437.749	ug/L	0.004
Ba	137	33.358074	153424.686	ug/L	0.050
Ba	138	33.209929	986099.109	ug/L	0.016
Tb	159		621368.851	ug/L	
Ho	165		588925.008	ug/L	
Hg	200	0.000694	25.000	ug/L	0.003
Hg	202	0.000601	29.000	ug/L	0.000
Tl	205	-0.006540	1147.418	ug/L	0.006
Pb	208	0.158041	6475.642	ug/L	0.001
Bi	209		444116.051	ug/L	
Se	77	-0.104859	977.386	mg/L	0.472
Se	78	-1.391827	18926.339	mg/L	0.852
Se	82	1.490212	311.647	mg/L	0.103

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.504
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.862
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.849
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 94.649
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07
Sample Date/Time: Saturday, September 08, 2012 01:10:05
Autosampler Position: 56
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07.49333

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5673.773	ug/L	
Be	9	0.005477	5.667	ug/L	0.005
B	10	117.956740	8398.962	ug/L	1.836
B	11	122.050388	43366.976	ug/L	2.678
C	12		552773.399	ug/L	
Na	23	37229.044872	288091304.431	ug/L	23.466
Mg	24	10565.799139	55555830.642	ug/L	59.005
Mg	25	10461.749202	7882336.069	ug/L	113.665
Al	27	1.168994	18109.836	ug/L	0.065
Si	28		22527765.917	ug/L	
P	31	170.863310	86905.448	ug/L	3.619
S	32		108175332.074	ug/L	
Cl	35		11935529.490	ug/L	
K	39	9825.035671	127836290.032	ug/L	49.703
Ca	44	24480.028777	9262058.475	ug/L	942.344
Sc	45		237104.223	ug/L	
Ti	47	1.429265	1700.843	ug/L	0.015
Ti	48	14.327885	149967.717	ug/L	1.941
V	51	0.335438	43110.406	ug/L	0.009
ClO	51		44243.846	ug/L	
Cr	52	0.033562	12101.215	ug/L	0.021
Cr	53	0.484064	13578.603	ug/L	0.052
Fe	54	7934.087311	7830523.479	ug/L	61.956
Mn	55	793.131224	14642443.707	ug/L	5.165
Fe	56	7865.628703	140055849.851	ug/L	3.332
Fe	57	9001.158471	3322551.552	ug/L	225.046
Co	59	0.437133	6622.811	ug/L	0.000
Ni	60	3.662725	10579.258	ug/L	0.045
Ni	62	3.183072	1400.122	ug/L	0.057
Cu	63	0.520367	3936.558	ug/L	0.012
Zn	64	1.401854	5032.743	ug/L	0.012
Cu	65	0.113092	502.686	ug/L	0.002
Zn	66	1.208351	2579.725	ug/L	0.012
Zn	68	3.041304	4193.009	ug/L	0.076
Ge	72		190221.549	ug/L	
As	75	44.271839	79388.714	ug/L	0.293
Se	74	-6.648274	11630.321	mg/L	5.331
ArCl	77		1061.406	ug/L	
Br	79		135157.610	ug/L	

Br	81		170320.220	ug/L	
Y	89		495526.796	ug/L	
Mo	95	1.038869	4540.179	ug/L	0.037
Rh	103		422518.388	ug/L	
Ag	107	0.191239	4210.769	ug/L	0.153
Ag	109	0.187760	4004.993	ug/L	0.145
Cd	111	0.013811	119.002	ug/L	0.000
Cd	114	0.012711	275.340	ug/L	0.000
In	115		525371.921	ug/L	
Sb	121	0.060618	770.040	ug/L	0.000
Sb	123	0.063114	609.851	ug/L	0.005
Ba	137	68.073460	311132.733	ug/L	0.105
Ba	138	66.343779	1957659.234	ug/L	0.196
Tb	159		616714.993	ug/L	
Ho	165		593607.813	ug/L	
Hg	200	0.020646	65.334	ug/L	0.000
Hg	202	0.019203	77.668	ug/L	0.002
Tl	205	-0.007353	1138.083	ug/L	0.005
Pb	208	0.038720	2487.157	ug/L	0.003
Bi	209		432721.608	ug/L	
Se	77	0.285981	1032.059	mg/L	0.108
Se	78	-0.857308	19178.864	mg/L	0.089
Se	82	1.635110	341.982	mg/L	0.097

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		104.143
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.679
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.297
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 95.401
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.08
Sample Date/Time: Saturday, September 08, 2012 01:16:36
Autosampler Position: 57
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.08.49334

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5729.806	ug/L	
Be	9	0.004385	5.333	ug/L	0.011
B	10	113.278693	8067.659	ug/L	1.129
B	11	118.500159	42107.719	ug/L	1.496
C	12		549231.209	ug/L	
Na	23	36235.689775	280280852.305	ug/L	1092.474
Mg	24	10266.795327	53965411.577	ug/L	213.028
Mg	25	9998.406190	7527595.068	ug/L	546.357
Al	27	1.108359	17602.120	ug/L	0.097
Si	28		21415260.166	ug/L	
P	31	165.237731	84294.621	ug/L	14.577
S	32		104563900.927	ug/L	
Cl	35		11830394.576	ug/L	
K	39	9688.059203	126024994.624	ug/L	204.279
Ca	44	23105.909119	8743326.899	ug/L	170.068
Sc	45		237084.547	ug/L	
Ti	47	1.426113	1696.842	ug/L	0.062
Ti	48	18.456532	193476.802	ug/L	2.557
V	51	0.279010	42300.627	ug/L	0.133
ClO	51		43295.284	ug/L	
Cr	52	0.057139	12368.457	ug/L	0.023
Cr	53	0.252318	13243.107	ug/L	0.417
Fe	54	7721.689600	7619313.145	ug/L	254.121
Mn	55	779.649216	14386849.978	ug/L	24.659
Fe	56	7533.005195	134290185.567	ug/L	50.067
Fe	57	8722.406125	3220074.002	ug/L	32.053
Co	59	0.418853	6378.302	ug/L	0.005
Ni	60	3.743328	10807.528	ug/L	0.064
Ni	62	3.213396	1412.791	ug/L	0.017
Cu	63	0.495916	3771.820	ug/L	0.028
Zn	64	1.529679	5424.932	ug/L	0.050
Cu	65	0.097120	451.682	ug/L	0.005
Zn	66	1.429633	2976.517	ug/L	0.048
Zn	68	3.220981	4418.784	ug/L	0.080
Ge	72		188609.811	ug/L	
As	75	43.347093	77067.835	ug/L	0.026
Se	74	29.019909	15161.471	mg/L	6.609
ArCl	77		1074.074	ug/L	
Br	79		136742.204	ug/L	

Br	81		172277.977	ug/L	
Y	89		500687.676	ug/L	
Mo	95	1.074690	4655.238	ug/L	0.003
Rh	103		430763.511	ug/L	
Ag	107	-0.091576	931.057	ug/L	0.011
Ag	109	-0.094365	860.383	ug/L	0.011
Cd	111	0.014391	121.669	ug/L	0.003
Cd	114	0.012604	277.007	ug/L	0.001
In	115		529904.076	ug/L	
Sb	121	0.039993	578.691	ug/L	0.006
Sb	123	0.041241	454.544	ug/L	0.003
Ba	137	66.183193	305105.205	ug/L	0.136
Ba	138	65.127216	1938308.482	ug/L	0.580
Tb	159		619204.423	ug/L	
Ho	165		586388.078	ug/L	
Hg	200	0.027263	77.668	ug/L	0.001
Hg	202	0.016190	69.001	ug/L	0.001
Tl	205	-0.010668	1044.404	ug/L	0.004
Pb	208	0.034963	2331.472	ug/L	0.004
Bi	209		445494.206	ug/L	
Se	77	0.514768	1064.062	mg/L	0.377
Se	78	-1.036079	19094.407	mg/L	0.846
Se	82	1.521710	318.241	mg/L	0.231

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.134
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.894
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 91.076
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 94.241
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07 MS
Sample Date/Time: Saturday, September 08, 2012 01:29:38
Autosampler Position: 59
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MS.49336

Al Ca Mg Na

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5551.028	ug/L	
Be	9	763.455897	204677.386	ug/L	55.813
B	10	110.503923	7693.998	ug/L	7.004
B	11	113.616168	39492.323	ug/L	5.215
C	12		1061227.539	ug/L	
Na	23	46557.065368	352369037.845	ug/L	1257.381
Mg	24	19802.218600	101892145.910	ug/L	110.069
Mg	25	19478.967743	14353500.329	ug/L	560.682
Al	27	10099.948390	81056498.541	ug/L	395.639
Si	28		20828751.604	ug/L	
P	31	10242.110577	4509221.303	ug/L	541.315
S	32		109815440.583	ug/L	
Cl	35		13964367.952	ug/L	
K	39	19327.848135	245035336.120	ug/L	516.051
Ca	44	33733.116088	12477708.459	ug/L	259.323
Sc	45		232062.897	ug/L	
Ti	47	24.673786	24085.772	ug/L	1.317
Ti	48	24.040958	246002.674	ug/L	6.480
V	51	971.432932	13232738.864	ug/L	62.302
ClO	51		13708188.663	ug/L	
Cr	52	958.856595	10781394.996	ug/L	64.182
Cr	53	810.593444	1131018.981	ug/L	57.735
Fe	54	16666.846368	15989776.725	ug/L	1362.722
Mn	55	1689.741497	30481718.692	ug/L	102.175
Fe	56	17000.586555	290972926.853	ug/L	1193.686
Fe	57	18733.478499	6743261.107	ug/L	1153.045
Co	59	918.585713	12017876.452	ug/L	55.270
Ni	60	888.737923	2490625.364	ug/L	55.549
Ni	62	827.071872	342030.053	ug/L	64.687
Cu	63	839.950587	5448142.888	ug/L	59.809
Zn	64	882.128202	2661823.847	ug/L	47.959
Cu	65	838.244751	2623677.627	ug/L	39.882
Zn	66	794.184234	1396742.118	ug/L	45.973
Zn	68	806.933180	997425.189	ug/L	50.172
Ge	72		184953.242	ug/L	
As	75	998.848890	1746475.759	ug/L	31.026
Se	74	126.221315	24569.041	mg/L	19.304
ArCl	77		133227.457	ug/L	
Br	79		124935.468	ug/L	

Br	81		159736.455	ug/L	
Y	89		475014.785	ug/L	
Mo	95	1082.434891	4538892.959	ug/L	3.632
Rh	103		406940.740	ug/L	
Ag	107	841.463362	9365006.760	ug/L	73.207
Ag	109	837.900327	8968854.016	ug/L	47.700
Cd	111	1072.907269	2917604.322	ug/L	56.758
Cd	114	1053.964539	6565054.390	ug/L	49.185
In	115		503535.471	ug/L	
Sb	121	1090.031492	9924556.794	ug/L	48.649
Sb	123	1083.489439	7549723.323	ug/L	50.394
Ba	137	1160.461691	5076161.695	ug/L	57.437
Ba	138	1149.512469	32463015.657	ug/L	58.165
Tb	159		591722.301	ug/L	
Ho	165		567639.299	ug/L	
Hg	200	1.030360	2002.240	ug/L	0.018
Hg	202	0.986101	2482.697	ug/L	0.008
Tl	205	1060.883483	24754641.392	ug/L	25.203
Pb	208	1037.014774	33580506.069	ug/L	4.195
Bi	209		428328.296	ug/L	
Se	77	931.637124	131313.892	mg/L	24.219
Se	78	887.372599	438807.499	mg/L	5.749
Se	82	872.213749	182601.338	mg/L	6.098

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.929
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 90.112
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 86.544
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 91.228
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07 MSD
Sample Date/Time: Saturday, September 08, 2012 01:36:09
Autosampler Position: 60
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MSD.49337

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5409.609	ug/L	
Be	9	749.667197	199984.222	ug/L	29.584
B	10	109.398023	7579.901	ug/L	1.214
B	11	114.421999	39549.240	ug/L	3.154
C	12		1069607.647	ug/L	
Na	23	46898.825196	352888645.329	ug/L	248.834
Mg	24	19901.889153	101769265.850	ug/L	248.478
Mg	25	19722.228482	14449136.888	ug/L	47.949
Al	27	9739.392662	77736509.592	ug/L	14.697
Si	28		21344049.336	ug/L	
P	31	9955.665681	4360399.864	ug/L	131.310
S	32		108334953.340	ug/L	
Cl	35		13970054.336	ug/L	
K	39	19464.001188	245290564.110	ug/L	331.164
Ca	44	34296.787677	12605881.059	ug/L	127.776
Sc	45		230564.954	ug/L	
Ti	47	23.016897	22374.066	ug/L	0.244
Ti	48	20.483714	209154.019	ug/L	2.652
V	51	970.504928	13153915.776	ug/L	18.095
ClO	51		13306386.299	ug/L	
Cr	52	949.911163	10629036.438	ug/L	9.071
Cr	53	809.782348	1124511.660	ug/L	7.904
Fe	54	16989.860484	16226052.530	ug/L	48.399
Mn	55	1699.413726	30502430.990	ug/L	15.565
Fe	56	16720.416465	284844290.967	ug/L	353.130
Fe	57	19475.977209	6975548.519	ug/L	5.480
Co	59	912.875464	11883264.284	ug/L	7.666
Ni	60	888.863084	2478588.461	ug/L	9.067
Ni	62	820.922840	337926.818	ug/L	10.218
Cu	63	834.910352	5389747.202	ug/L	7.806
Zn	64	877.530267	2634126.328	ug/L	13.412
Cu	65	830.253682	2584682.281	ug/L	11.674
Zn	66	792.387839	1386350.900	ug/L	17.333
Zn	68	797.511597	980773.028	ug/L	17.479
Ge	72		184604.879	ug/L	
As	75	988.846887	1725914.404	ug/L	15.195
Se	74	113.869139	23281.155	mg/L	6.662
ArCl	77		130839.449	ug/L	
Br	79		123985.713	ug/L	

Br	81		157634.806	ug/L	
Y	89		481181.928	ug/L	
Mo	95	1087.115610	4550069.534	ug/L	3.968
Rh	103		407254.022	ug/L	
Ag	107	790.799817	8995450.110	ug/L	31.401
Ag	109	804.815198	8799844.962	ug/L	19.166
Cd	111	1044.847880	2901980.645	ug/L	26.596
Cd	114	1039.114377	6609867.590	ug/L	24.694
In	115		513758.457	ug/L	
Sb	121	1066.839740	9919591.794	ug/L	19.895
Sb	123	1057.215233	7523295.993	ug/L	20.695
Ba	137	1131.672657	5055685.755	ug/L	25.628
Ba	138	1116.402299	32199345.522	ug/L	28.483
Tb	159		594498.882	ug/L	
Ho	165		564668.008	ug/L	
Hg	200	0.999801	1933.892	ug/L	0.012
Hg	202	1.018641	2550.383	ug/L	0.013
Tl	205	1060.975816	24629602.836	ug/L	18.775
Pb	208	1036.208004	33375369.068	ug/L	17.971
Bi	209		427466.995	ug/L	
Se	77	914.977211	128983.424	mg/L	18.648
Se	78	876.181626	433520.520	mg/L	10.060
Se	82	861.670623	180394.089	mg/L	0.833

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.271
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 89.943
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 88.301
Sb
Sb
Ba
Ba
Tb
> Ho 90.750
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.04
Sample Date/Time: Saturday, September 08, 2012 03:39:37
Autosampler Position: 75
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.04.49356

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5089.424	ug/L	
Be	9	0.000230	4.333	ug/L	0.005
B	10	15.279242	1189.756	ug/L	0.529
B	11	16.764599	6438.677	ug/L	0.074
C	12		587946.724	ug/L	
Na	23	9809.193324	77960730.506	ug/L	376.011
Mg	24	2936.366184	15853392.908	ug/L	68.847
Mg	25	2531.729338	1958489.086	ug/L	25.411
Al	27	2.822539	32524.659	ug/L	0.017
Si	28		40891897.627	ug/L	
P	31	39.255011	28497.444	ug/L	0.034
S	32		102137657.681	ug/L	
Cl	35		10693876.054	ug/L	
K	39	2040.937895	28064916.023	ug/L	30.274
Ca	44	12343.918660	4809586.498	ug/L	127.349
Sc	45		243421.438	ug/L	
Ti	47	1.819961	2142.274	ug/L	0.048
Ti	48	10.616686	113484.099	ug/L	1.248
V	51	0.100831	40913.286	ug/L	0.028
ClO	51		42038.734	ug/L	
Cr	52	-0.093858	10920.187	ug/L	0.000
Cr	53	-0.230100	12905.284	ug/L	0.058
Fe	54	16380.720842	16519893.216	ug/L	39.614
Mn	55	3448.026039	65337894.523	ug/L	27.684
Fe	56	15886.503799	286016968.449	ug/L	209.545
Fe	57	18334.095457	6934512.814	ug/L	454.659
Co	59	17.631564	243107.215	ug/L	0.025
Ni	60	25.974658	76551.406	ug/L	0.019
Ni	62	25.762481	11250.070	ug/L	0.048
Cu	63	0.426885	3404.005	ug/L	0.012
Zn	64	2.543766	8784.442	ug/L	0.042
Cu	65	0.381558	1398.455	ug/L	0.003
Zn	66	2.055542	4213.352	ug/L	0.019
Zn	68	2.822493	4020.929	ug/L	0.015
Ge	72		188133.700	ug/L	
As	75	29.069004	51469.275	ug/L	0.140
Se	74	-42.356704	7860.341	mg/L	24.484
ArCl	77		937.391	ug/L	
Br	79		18240.879	ug/L	

Br	81		45907.182	ug/L	
Y	89		481780.010	ug/L	
Mo	95	0.189410	867.383	ug/L	0.003
Rh	103		411591.426	ug/L	
Ag	107	-0.068660	1180.422	ug/L	0.005
Ag	109	-0.070140	1115.413	ug/L	0.000
Cd	111	0.010549	109.002	ug/L	0.005
Cd	114	0.006967	236.339	ug/L	0.003
In	115		521529.910	ug/L	
Sb	121	0.022237	402.013	ug/L	0.001
Sb	123	0.021196	302.572	ug/L	0.000
Ba	137	18.715115	84950.581	ug/L	0.141
Ba	138	18.443253	540445.038	ug/L	0.127
Tb	159		593955.190	ug/L	
Ho	165		565559.171	ug/L	
Hg	200	-0.000724	21.334	ug/L	0.001
Hg	202	-0.000811	24.334	ug/L	0.001
Tl	205	-0.005053	1137.083	ug/L	0.006
Pb	208	0.069722	3369.608	ug/L	0.000
Bi	209		449803.707	ug/L	
Se	77	-0.133458	973.385	mg/L	0.135
Se	78	-1.863698	18703.412	mg/L	0.592
Se	82	0.302628	63.021	mg/L	0.040

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.918
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 91.662
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 89.637
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 90.893
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.05
Sample Date/Time: Saturday, September 08, 2012 04:11:48
Autosampler Position: 76
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.05.49361

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5178.809	ug/L	
Be	9	0.004560	5.667	ug/L	0.012
B	10	214.727169	16000.229	ug/L	5.743
B	11	225.873261	84043.542	ug/L	2.070
C	12		716055.887	ug/L	
Na	23	33472.922465	272257982.025	ug/L	775.355
Mg	24	9378.673168	51844852.824	ug/L	53.341
Mg	25	9167.971339	7261315.082	ug/L	55.155
Al	27	3.633930	40326.865	ug/L	0.281
Si	28		41896219.980	ug/L	
P	31	336.774758	169753.906	ug/L	0.485
S	32		101000356.160	ug/L	
Cl	35		11210957.863	ug/L	
K	39	15166.820711	206854052.226	ug/L	371.408
Ca	44	27948.391565	11112402.468	ug/L	236.874
Sc	45		249263.514	ug/L	
Ti	47	2.578015	2979.185	ug/L	0.087
Ti	48	17.580523	193878.552	ug/L	1.106
V	51	0.276068	44451.528	ug/L	0.019
ClO	51		45436.385	ug/L	
Cr	52	0.088677	13386.603	ug/L	0.016
Cr	53	-0.400350	12961.029	ug/L	0.060
Fe	54	16446.111235	16980847.290	ug/L	295.322
Mn	55	797.964372	15485851.874	ug/L	6.975
Fe	56	16449.229398	303062673.270	ug/L	94.159
Fe	57	18417.560865	7130530.918	ug/L	528.698
Co	59	10.424367	147485.562	ug/L	0.253
Ni	60	9.103479	27518.197	ug/L	0.266
Ni	62	8.652364	3904.211	ug/L	0.438
Cu	63	0.534239	4234.362	ug/L	0.017
Zn	64	2.757083	9688.938	ug/L	0.028
Cu	65	0.187135	777.374	ug/L	0.011
Zn	66	2.367649	4903.371	ug/L	0.076
Zn	68	3.426791	4919.713	ug/L	0.082
Ge	72		185434.922	ug/L	
As	75	240.175787	420902.546	ug/L	2.053
Se	74	-40.142494	7967.863	mg/L	40.334
ArCl	77		1058.406	ug/L	
Br	79		128584.040	ug/L	

Br	81		163965.077	ug/L	
Y	89		482992.760	ug/L	
Mo	95	22.486855	94587.481	ug/L	0.415
Rh	103		406721.921	ug/L	
Ag	107	0.071373	2761.114	ug/L	0.003
Ag	109	0.076977	2712.098	ug/L	0.005
Cd	111	0.054683	230.339	ug/L	0.005
Cd	114	0.043713	467.350	ug/L	0.003
In	115		514607.104	ug/L	
Sb	121	0.075881	896.386	ug/L	0.002
Sb	123	0.073436	670.808	ug/L	0.010
Ba	137	28.855102	129215.860	ug/L	0.200
Ba	138	28.794669	832432.831	ug/L	0.006
Tb	159		588044.353	ug/L	
Ho	165		560399.495	ug/L	
Hg	200	0.009381	40.334	ug/L	0.003
Hg	202	0.007691	45.001	ug/L	0.003
Tl	205	-0.005498	1117.414	ug/L	0.005
Pb	208	0.026291	1950.769	ug/L	0.002
Bi	209		418902.110	ug/L	
Se	77	0.381310	1045.394	mg/L	0.458
Se	78	-0.915754	19151.252	mg/L	0.364
Se	82	1.595849	333.763	mg/L	0.049

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		109.484
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.347
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 88.447
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.064
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.09
Sample Date/Time: Saturday, September 08, 2012 04:18:20
Autosampler Position: 77
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.09.49362

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5217.499	ug/L	
Be	9	0.021543	10.333	ug/L	0.015
B	10	7.113398	599.359	ug/L	0.300
B	11	7.958562	3257.950	ug/L	0.107
C	12		571016.126	ug/L	
Na	23	7671.045568	61048977.473	ug/L	73.471
Mg	24	5463.410697	29530272.751	ug/L	120.123
Mg	25	5365.884826	4156098.028	ug/L	77.486
Al	27	108.069081	920704.861	ug/L	1.878
Si	28		40302238.670	ug/L	
P	31	29.149375	23867.006	ug/L	0.500
S	32		100218211.956	ug/L	
Cl	35		10459344.324	ug/L	
K	39	2423.481586	33179767.262	ug/L	6.645
Ca	44	6901.138866	2705201.672	ug/L	231.851
Sc	45		243766.557	ug/L	
Ti	47	9.464381	9902.157	ug/L	0.083
Ti	48	13.755005	147948.588	ug/L	0.206
V	51	0.511411	46830.783	ug/L	0.068
ClO	51		47803.515	ug/L	
Cr	52	0.192158	14312.481	ug/L	0.047
Cr	53	0.168471	13499.152	ug/L	0.294
Fe	54	3994.823516	4089664.018	ug/L	55.741
Mn	55	407.455529	7733876.737	ug/L	10.269
Fe	56	3909.686706	73739076.876	ug/L	131.064
Fe	57	4020.530602	1533536.399	ug/L	36.685
Co	59	0.597109	9009.552	ug/L	0.013
Ni	60	0.903756	2741.774	ug/L	0.033
Ni	62	0.891346	442.349	ug/L	0.071
Cu	63	0.424664	3393.667	ug/L	0.010
Zn	64	2.959138	10115.348	ug/L	0.018
Cu	65	0.391303	1432.794	ug/L	0.011
Zn	66	2.585393	5198.205	ug/L	0.081
Zn	68	3.213680	4534.509	ug/L	0.069
Ge	72		185613.142	ug/L	
As	75	1.229756	1916.890	ug/L	0.012
Se	74	1.821184	12199.731	mg/L	4.869
ArCl	77		968.061	ug/L	
Br	79		16858.129	ug/L	

Br	81		45623.679	ug/L	
Y	89		484950.828	ug/L	
Mo	95	0.203445	914.722	ug/L	0.010
Rh	103		412148.166	ug/L	
Ag	107	0.111484	3217.936	ug/L	0.018
Ag	109	0.102105	2986.855	ug/L	0.019
Cd	111	0.007635	99.335	ug/L	0.004
Cd	114	0.006324	229.005	ug/L	0.002
In	115		514815.701	ug/L	
Sb	121	0.036724	531.688	ug/L	0.003
Sb	123	0.034848	396.007	ug/L	0.001
Ba	137	12.461409	55844.241	ug/L	0.381
Ba	138	12.438879	359872.704	ug/L	0.207
Tb	159		599207.599	ug/L	
Ho	165		570617.339	ug/L	
Hg	200	-0.000130	22.667	ug/L	0.001
Hg	202	-0.000764	24.667	ug/L	0.001
Tl	205	-0.000977	1242.764	ug/L	0.005
Pb	208	0.166283	6542.653	ug/L	0.002
Bi	209		416404.156	ug/L	
Se	77	0.142991	1012.056	mg/L	0.391
Se	78	-1.467593	18890.545	mg/L	0.414
Se	82	0.283620	59.042	mg/L	0.086

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.069
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 90.434
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 88.483
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.706
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.10
Sample Date/Time: Saturday, September 08, 2012 04:24:51
Autosampler Position: 78
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.10.49363

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5920.595	ug/L	
Be	9	0.003226	5.333	ug/L	0.004
B	10	6.968543	606.026	ug/L	0.208
B	11	7.004760	2997.858	ug/L	0.193
C	12		581108.563	ug/L	
Na	23	15664.046342	128284225.185	ug/L	502.332
Mg	24	4882.343918	27174376.739	ug/L	49.874
Mg	25	5034.923627	4013876.486	ug/L	214.367
Al	27	66.570776	587290.705	ug/L	1.143
Si	28		36433315.060	ug/L	
P	31	4.285656	12777.104	ug/L	4.811
S	32		104647702.092	ug/L	
Cl	35		10417328.268	ug/L	
K	39	3482.373293	48620931.976	ug/L	110.329
Ca	44	7491.157922	3020713.038	ug/L	208.885
Sc	45		251014.008	ug/L	
Ti	47	4.714182	5231.557	ug/L	0.094
Ti	48	10.119675	111530.347	ug/L	0.094
V	51	0.243352	44255.602	ug/L	0.153
ClO	51		45052.853	ug/L	
Cr	52	0.130282	13982.935	ug/L	0.036
Cr	53	0.213660	13961.189	ug/L	0.502
Fe	54	104.434220	183767.328	ug/L	4.624
Mn	55	13.609916	269060.480	ug/L	0.509
Fe	56	85.320332	6024441.514	ug/L	6.301
Fe	57	119.453152	60956.425	ug/L	4.941
Co	59	0.113562	2424.681	ug/L	0.006
Ni	60	0.304820	1005.399	ug/L	0.004
Ni	62	0.494321	277.340	ug/L	0.007
Cu	63	0.415487	3430.015	ug/L	0.006
Zn	64	2.045716	7429.968	ug/L	0.044
Cu	65	0.315871	1219.761	ug/L	0.007
Zn	66	1.462962	3213.934	ug/L	0.083
Zn	68	1.935125	2957.177	ug/L	0.069
Ge	72		190790.673	ug/L	
As	75	0.056527	-145.697	ug/L	0.076
Se	74	19.638880	14373.383	mg/L	6.604
ArCl	77		1153.752	ug/L	
Br	79		12467.030	ug/L	

Br	81		42405.101	ug/L	
Y	89		492597.162	ug/L	
Mo	95	2.032217	8849.728	ug/L	0.067
Rh	103		418202.875	ug/L	
Ag	107	0.014137	2103.932	ug/L	0.021
Ag	109	0.016599	2045.585	ug/L	0.025
Cd	111	-0.003850	67.334	ug/L	0.001
Cd	114	-0.004356	160.670	ug/L	0.001
In	115		514131.441	ug/L	
Sb	121	0.061525	761.706	ug/L	0.003
Sb	123	0.060388	577.303	ug/L	0.002
Ba	137	7.224967	32363.503	ug/L	0.042
Ba	138	7.257295	209790.139	ug/L	0.135
Tb	159		606316.313	ug/L	
Ho	165		589331.953	ug/L	
Hg	200	0.045110	113.669	ug/L	0.000
Hg	202	0.032045	110.335	ug/L	0.001
Tl	205	-0.008640	1098.745	ug/L	0.005
Pb	208	0.068976	3486.299	ug/L	0.001
Bi	209		438936.540	ug/L	
Se	77	0.676825	1086.732	mg/L	0.121
Se	78	-0.421227	19384.883	mg/L	1.010
Se	82	0.262871	54.698	mg/L	0.224

QC Calculated Values

Analyte	QC Std % Recovery	Int Std % Recovery
Li		
Be		
B		
B		
C		
Na		
Mg		
Mg		
Al		
Si		
P		
S		
Cl		
K		
Ca		
> Sc		110.253
Ti		
Ti		
V		
ClO		
Cr		
Cr		
Fe		
Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.957
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 88.365
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 94.714
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.11
Sample Date/Time: Saturday, September 08, 2012 04:31:22
Autosampler Position: 79
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.11.49364

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6116.725	ug/L	
Be	9	0.017775	9.667	ug/L	0.010
B	10	6.812722	597.026	ug/L	0.006
B	11	6.649462	2875.817	ug/L	0.324
C	12		603516.885	ug/L	
Na	23	12105.425606	99535879.014	ug/L	381.527
Mg	24	9543.159554	53305370.111	ug/L	343.218
Mg	25	9315.546195	7456624.445	ug/L	293.485
Al	27	17.909600	165076.047	ug/L	1.416
Si	28		38906078.429	ug/L	
P	31	14.893599	17839.293	ug/L	3.333
S	32		98701809.927	ug/L	
Cl	35		11279068.102	ug/L	
K	39	4333.200981	60476683.740	ug/L	162.782
Ca	44	17984.910745	7245177.294	ug/L	550.180
Sc	45		252044.380	ug/L	
Ti	47	1.497326	1877.213	ug/L	0.115
Ti	48	13.959760	154506.466	ug/L	3.867
V	51	0.088602	42159.625	ug/L	0.075
ClO	51		43302.329	ug/L	
Cr	52	2.242463	39825.087	ug/L	0.142
Cr	53	2.094514	16847.770	ug/L	0.146
Fe	54	4700.453065	4957861.292	ug/L	243.607
Mn	55	614.316668	12046431.381	ug/L	28.281
Fe	56	4529.421611	87587839.516	ug/L	142.187
Fe	57	4674.871077	1840444.463	ug/L	135.759
Co	59	0.100703	2250.968	ug/L	0.007
Ni	60	0.718853	2269.973	ug/L	0.034
Ni	62	0.286856	185.337	ug/L	0.021
Cu	63	0.243251	2227.962	ug/L	0.009
Zn	64	3.302945	11577.093	ug/L	0.171
Cu	65	0.154224	674.032	ug/L	0.005
Zn	66	2.923149	6015.717	ug/L	0.170
Zn	68	3.561003	5151.511	ug/L	0.181
Ge	72		190052.769	ug/L	
As	75	2.206927	3719.301	ug/L	0.039
Se	74	19.444238	14302.559	mg/L	20.606
ArCl	77		1167.087	ug/L	
Br	79		55867.861	ug/L	

Br	81		86607.464	ug/L	
Y	89		486979.030	ug/L	
Mo	95	0.300242	1353.781	ug/L	0.007
Rh	103		419146.644	ug/L	
Ag	107	-0.021117	1722.514	ug/L	0.005
Ag	109	-0.033489	1515.808	ug/L	0.001
Cd	111	0.002785	86.668	ug/L	0.000
Cd	114	-0.000017	190.337	ug/L	0.005
In	115		519329.770	ug/L	
Sb	121	0.030674	479.684	ug/L	0.000
Sb	123	0.030514	368.333	ug/L	0.001
Ba	137	13.673907	61823.457	ug/L	0.077
Ba	138	13.624320	397645.224	ug/L	0.002
Tb	159		603899.578	ug/L	
Ho	165		578701.777	ug/L	
Hg	200	-0.002002	19.334	ug/L	0.002
Hg	202	-0.001957	22.000	ug/L	0.002
Tl	205	-0.009032	1069.407	ug/L	0.006
Pb	208	0.083333	3897.369	ug/L	0.004
Bi	209		461652.093	ug/L	
Se	77	1.039074	1137.405	mg/L	0.741
Se	78	-1.664704	18797.424	mg/L	0.142
Se	82	0.745871	155.816	mg/L	0.073

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		110.705
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.597
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 89.259
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.006
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.12
Sample Date/Time: Saturday, September 08, 2012 04:37:53
Autosampler Position: 80
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.12.49365

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6131.401	ug/L	
Be	9	-0.004150	3.000	ug/L	0.012
B	10	11.039550	863.050	ug/L	0.320
B	11	11.769396	4529.173	ug/L	0.282
C	12		620963.306	ug/L	
Na	23	35458.684539	275493273.910	ug/L	561.767
Mg	24	777.449628	4104797.439	ug/L	13.092
Mg	25	674.810505	510580.378	ug/L	7.784
Al	27	18.167040	158197.170	ug/L	0.818
Si	28		26454228.828	ug/L	
P	31	133.605060	70438.854	ug/L	3.459
S	32		96594809.214	ug/L	
Cl	35		10988936.178	ug/L	
K	39	4068.412364	53729608.344	ug/L	41.747
Ca	44	6473.643923	2480557.082	ug/L	90.499
Sc	45		238099.893	ug/L	
Ti	47	1.595967	1872.545	ug/L	0.054
Ti	48	5.340421	54774.415	ug/L	0.561
V	51	0.424077	44521.199	ug/L	0.047
ClO	51		45276.265	ug/L	
Cr	52	-0.013727	11602.381	ug/L	0.030
Cr	53	0.455740	13596.969	ug/L	0.098
Fe	54	55.007456	125835.035	ug/L	0.313
Mn	55	14.667289	274867.877	ug/L	0.319
Fe	56	36.755689	4872486.570	ug/L	5.835
Fe	57	65.774051	38006.429	ug/L	4.845
Co	59	0.011705	931.390	ug/L	0.002
Ni	60	0.337377	1047.404	ug/L	0.005
Ni	62	0.366946	209.004	ug/L	0.007
Cu	63	0.637570	4732.946	ug/L	0.020
Zn	64	1.564451	5556.122	ug/L	0.046
Cu	65	0.214713	831.713	ug/L	0.006
Zn	66	1.346838	2840.472	ug/L	0.011
Zn	68	1.830270	2672.753	ug/L	0.017
Ge	72		190130.327	ug/L	
As	75	1.979684	3312.253	ug/L	0.082
Se	74	28.508776	15235.237	mg/L	29.003
ArCl	77		1213.427	ug/L	
Br	79		27755.997	ug/L	

Br	81		57799.484	ug/L	
Y	89		495472.063	ug/L	
Mo	95	0.876700	3839.182	ug/L	0.019
Rh	103		420039.216	ug/L	
Ag	107	-0.023808	1684.506	ug/L	0.002
Ag	109	-0.027721	1572.485	ug/L	0.007
Cd	111	0.010886	109.002	ug/L	0.001
Cd	114	0.012176	267.673	ug/L	0.001
In	115		517217.819	ug/L	
Sb	121	0.144054	1539.146	ug/L	0.002
Sb	123	0.142673	1170.197	ug/L	0.005
Ba	137	9.378110	42235.979	ug/L	0.261
Ba	138	9.327338	271188.447	ug/L	0.124
Tb	159		610644.102	ug/L	
Ho	165		574167.991	ug/L	
Hg	200	0.083720	185.670	ug/L	0.005
Hg	202	0.059519	176.670	ug/L	0.001
Tl	205	-0.009115	1057.073	ug/L	0.007
Pb	208	0.086540	3969.044	ug/L	0.007
Bi	209		431325.508	ug/L	
Se	77	1.715910	1232.084	mg/L	0.809
Se	78	-0.705434	19250.614	mg/L	0.182
Se	82	0.516884	107.877	mg/L	0.141

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		104.580
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.635
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 88.896
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 92.277
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.13
Sample Date/Time: Saturday, September 08, 2012 04:44:25
Autosampler Position: 81
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.13.49366

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6302.189	ug/L	
Be	9	0.000065	4.333	ug/L	0.006
B	10	5.296636	475.684	ug/L	0.506
B	11	5.548255	2426.681	ug/L	0.482
C	12		622452.608	ug/L	
Na	23	6106.321969	49496697.864	ug/L	287.626
Mg	24	2674.651730	14719385.496	ug/L	166.864
Mg	25	2298.864939	1811662.625	ug/L	190.366
Al	27	3.288319	37112.691	ug/L	0.438
Si	28		30225549.615	ug/L	
P	31	5.400281	13154.179	ug/L	0.076
S	32		100780876.919	ug/L	
Cl	35		10703037.450	ug/L	
K	39	1760.073330	24801239.566	ug/L	142.246
Ca	44	4392.645968	1763963.853	ug/L	307.671
Sc	45		248649.196	ug/L	
Ti	47	1.163720	1508.140	ug/L	0.020
Ti	48	5.207972	55740.422	ug/L	0.170
V	51	0.194562	43049.461	ug/L	0.230
ClO	51		44392.268	ug/L	
Cr	52	-0.059930	11548.026	ug/L	0.041
Cr	53	0.343028	13987.565	ug/L	0.916
Fe	54	2.720323	77664.890	ug/L	3.611
Mn	55	2.302952	47697.610	ug/L	0.153
Fe	56	-21.424094	4026061.808	ug/L	17.126
Fe	57	12.569844	19158.748	ug/L	3.453
Co	59	0.022008	1117.413	ug/L	0.000
Ni	60	0.402258	1287.771	ug/L	0.014
Ni	62	0.406504	235.339	ug/L	0.032
Cu	63	0.145519	1515.141	ug/L	0.016
Zn	64	2.750576	9621.759	ug/L	0.209
Cu	65	0.114312	530.021	ug/L	0.011
Zn	66	2.538770	5200.206	ug/L	0.252
Zn	68	2.899337	4198.345	ug/L	0.254
Ge	72		189281.428	ug/L	
As	75	-0.020578	-281.843	ug/L	0.060
Se	74	27.364119	15022.353	mg/L	18.578
ArCl	77		1171.421	ug/L	
Br	79		8256.172	ug/L	

Br	81		37073.492	ug/L	
Y	89		491096.705	ug/L	
Mo	95	0.240703	1092.410	ug/L	0.009
Rh	103		421578.028	ug/L	
Ag	107	-0.051799	1376.451	ug/L	0.001
Ag	109	-0.051817	1319.442	ug/L	0.007
Cd	111	0.011601	112.002	ug/L	0.002
Cd	114	0.007012	236.672	ug/L	0.001
In	115		521919.008	ug/L	
Sb	121	0.016342	346.677	ug/L	0.000
Sb	123	0.015397	260.789	ug/L	0.003
Ba	137	5.421171	24666.331	ug/L	0.057
Ba	138	5.396547	158465.932	ug/L	0.095
Tb	159		613148.911	ug/L	
Ho	165		581855.635	ug/L	
Hg	200	-0.002214	19.000	ug/L	0.001
Hg	202	-0.000175	26.667	ug/L	0.000
Tl	205	-0.000297	1285.438	ug/L	0.006
Pb	208	0.021726	1874.094	ug/L	0.002
Bi	209		448114.632	ug/L	
Se	77	1.143934	1152.073	mg/L	0.431
Se	78	-1.158457	19036.591	mg/L	0.790
Se	82	0.229982	47.813	mg/L	0.154

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
[	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		109.214
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.221
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 89.704
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.512
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.14
Sample Date/Time: Saturday, September 08, 2012 04:50:56
Autosampler Position: 82
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.14.49367

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5967.303	ug/L	
Be	9	0.010775	8.000	ug/L	0.003
B	10	298.133355	23720.161	ug/L	7.993
B	11	301.839445	119936.413	ug/L	4.976
C	12		742222.132	ug/L	
Na	23	S	S	ug/L	S
Mg	24	20320.964137	120067862.242	ug/L	305.482
Mg	25	20030.932897	16960185.189	ug/L	12.596
Al	27	8.462888	87632.567	ug/L	0.187
Si	28		45772752.093	ug/L	
P	31	94.774926	59238.307	ug/L	0.839
S	32		104089027.660	ug/L	
Cl	35		13141548.255	ug/L	
K	39	20703.386281	301494237.318	ug/L	99.461
Ca	44	43408.860136	18429949.325	ug/L	432.630
Sc	45		266458.068	ug/L	
Ti	47	2.764625	3392.333	ug/L	0.028
Ti	48	40.426616	480727.375	ug/L	17.026
V	51	0.165101	45787.145	ug/L	0.005
ClO	51		46806.337	ug/L	
Cr	52	0.303440	17086.937	ug/L	0.013
Cr	53	-0.058808	14398.874	ug/L	0.134
Fe	54	8455.939085	9372497.219	ug/L	226.154
Mn	55	127.829770	2654903.156	ug/L	0.691
Fe	56	8245.954531	164770493.123	ug/L	69.171
Fe	57	9569.222488	3968175.012	ug/L	298.296
Co	59	0.379409	6574.442	ug/L	0.002
Ni	60	6.956791	22503.044	ug/L	0.157
Ni	62	6.111861	2966.847	ug/L	0.054
Cu	63	1.056124	8420.315	ug/L	0.021
Zn	64	2.279196	8698.732	ug/L	0.011
Cu	65	0.159207	730.703	ug/L	0.008
Zn	66	2.006144	4511.498	ug/L	0.058
Zn	68	4.498929	6783.598	ug/L	0.002
Ge	72		185188.577	ug/L	
As	75	52.648146	91960.016	ug/L	0.272
Se	74	2.024245	12188.435	mg/L	3.737
ArCl	77		1321.443	ug/L	
Br	79		288677.673	ug/L	

Br	81		335268.823	ug/L	
Y	89		499171.859	ug/L	
Mo	95	2.794934	11792.762	ug/L	0.042
Rh	103		411573.227	ug/L	
Ag	107	-0.085240	968.061	ug/L	0.002
Ag	109	-0.088805	888.719	ug/L	0.000
Cd	111	0.019978	132.669	ug/L	0.004
Cd	114	0.016526	291.674	ug/L	0.004
In	115		510333.684	ug/L	
Sb	121	0.053372	681.032	ug/L	0.001
Sb	123	0.051589	510.917	ug/L	0.002
Ba	137	108.281620	480673.497	ug/L	1.600
Ba	138	114.160553	3271876.735	ug/L	0.965
Tb	159		604914.279	ug/L	
Ho	165		583317.138	ug/L	
Hg	200	0.012449	48.001	ug/L	0.002
Hg	202	0.002929	34.667	ug/L	0.002
Tl	205	-0.016571	897.721	ug/L	0.007
Pb	208	0.019436	1802.088	ug/L	0.000
Bi	209		438635.032	ug/L	
Se	77	2.135360	1290.758	mg/L	0.539
Se	78	-1.058796	19083.674	mg/L	0.502
Se	82	3.257296	681.594	mg/L	0.073

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		117.036
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 90.227
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 87.713
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 93.747
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.15
Sample Date/Time: Saturday, September 08, 2012 04:57:27
Autosampler Position: 83
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.15.49368

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5496.329	ug/L	
Be	9	0.007916	6.333	ug/L	0.005
B	10	51.475750	3705.459	ug/L	0.520
B	11	55.272432	19809.090	ug/L	0.605
C	12		823817.902	ug/L	
Na	23	S	S	ug/L	S
Mg	24	3020.337114	15858823.768	ug/L	57.218
Mg	25	2526.692455	1900866.241	ug/L	19.277
Al	27	66.746088	555478.787	ug/L	0.167
Si	28		27778940.474	ug/L	
P	31	39.638042	27882.209	ug/L	3.886
S	32		107764307.313	ug/L	
Cl	35		15906141.565	ug/L	
K	39	5620.411121	73439795.652	ug/L	11.159
Ca	44	4914.310268	1879582.697	ug/L	75.843
Sc	45		236749.893	ug/L	
Ti	47	1.460270	1728.515	ug/L	0.091
Ti	48	4.534515	45980.670	ug/L	0.341
V	51	0.679056	47817.935	ug/L	0.048
ClO	51		48381.915	ug/L	
Cr	52	0.749977	20305.992	ug/L	0.018
Cr	53	2.396046	16254.682	ug/L	0.068
Fe	54	181.847979	248942.449	ug/L	9.619
Mn	55	55.964802	1034434.853	ug/L	0.830
Fe	56	171.434048	7168034.732	ug/L	6.443
Fe	57	195.163058	85303.508	ug/L	2.280
Co	59	0.123324	2418.346	ug/L	0.000
Ni	60	5.448844	15676.997	ug/L	0.112
Ni	62	5.840384	2521.041	ug/L	0.120
Cu	63	2.631400	17923.497	ug/L	0.021
Zn	64	1.245957	4544.545	ug/L	0.015
Cu	65	0.082479	404.013	ug/L	0.004
Zn	66	1.178965	2523.042	ug/L	0.001
Zn	68	2.237281	3171.585	ug/L	0.035
Ge	72		176265.766	ug/L	
As	75	2.176528	3399.000	ug/L	0.133
Se	74	30.090676	14273.241	mg/L	19.857
ArCl	77		1403.456	ug/L	
Br	79		604314.047	ug/L	

Br	81		668410.772	ug/L	
Y	89		471709.940	ug/L	
Mo	95	0.185246	796.043	ug/L	0.010
Rh	103		388258.184	ug/L	
Ag	107	0.139928	3334.311	ug/L	0.002
Ag	109	-0.082287	910.721	ug/L	0.004
Cd	111	0.036444	169.003	ug/L	0.004
Cd	114	0.002622	193.337	ug/L	0.002
In	115		484384.347	ug/L	
Sb	121	0.040324	532.021	ug/L	0.002
Sb	123	0.040073	407.705	ug/L	0.001
Ba	137	35.367743	149063.640	ug/L	0.043
Ba	138	35.226691	958506.209	ug/L	0.181
Tb	159		574762.223	ug/L	
Ho	165		548749.438	ug/L	
Hg	200	0.029404	76.668	ug/L	0.000
Hg	202	0.020803	75.668	ug/L	0.000
Tl	205	-0.020463	755.373	ug/L	0.006
Pb	208	0.044555	2481.492	ug/L	0.001
Bi	209		379942.296	ug/L	
Se	77	2.449951	1334.765	mg/L	0.715
Se	78	-1.510617	18870.220	mg/L	0.427
Se	82	7.039701	1473.456	mg/L	0.259

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.987
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 85.880
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 83.253
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.192
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.16
Sample Date/Time: Saturday, September 08, 2012 05:03:59
Autosampler Position: 84
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.16.49369

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5197.485	ug/L	
Be	9	0.010475	7.000	ug/L	0.012
B	10	307.033492	21561.432	ug/L	6.180
B	11	324.990063	113955.917	ug/L	1.909
C	12		701709.538	ug/L	
Na	23	S	S	ug/L	S
Mg	24	15360.120882	80131842.680	ug/L	416.464
Mg	25	15157.470863	11328896.037	ug/L	82.568
Al	27	53.755321	446049.372	ug/L	1.548
Si	28		26340457.937	ug/L	
P	31	83.558955	47300.969	ug/L	4.741
S	32		104639721.028	ug/L	
Cl	35		12843139.484	ug/L	
K	39	8254.675567	106705882.461	ug/L	22.270
Ca	44	38145.385474	14301271.977	ug/L	372.291
Sc	45		235217.613	ug/L	
Ti	47	4.559916	4751.956	ug/L	0.107
Ti	48	31.378889	328222.992	ug/L	1.995
V	51	0.814164	49370.538	ug/L	0.019
ClO	51		49774.725	ug/L	
Cr	52	0.279095	14803.636	ug/L	0.030
Cr	53	0.736911	13824.642	ug/L	0.007
Fe	54	4675.104445	4606392.342	ug/L	35.079
Mn	55	3715.755319	68035436.884	ug/L	61.387
Fe	56	4398.617567	79537315.535	ug/L	74.023
Fe	57	4567.374995	1679134.440	ug/L	74.854
Co	59	4.675371	62850.473	ug/L	0.067
Ni	60	6.728948	19216.815	ug/L	0.118
Ni	62	6.194789	2653.414	ug/L	0.153
Cu	63	1.390151	9632.864	ug/L	0.019
Zn	64	2.417849	8102.724	ug/L	0.055
Cu	65	0.309986	1124.081	ug/L	0.002
Zn	66	2.125787	4195.677	ug/L	0.098
Zn	68	3.329576	4521.837	ug/L	0.071
Ge	72		177630.742	ug/L	
As	75	37.482507	62732.433	ug/L	0.169
Se	74	19.652232	13376.359	mg/L	6.900
ArCl	77		1210.426	ug/L	
Br	79		263706.832	ug/L	

Br	81		309056.406	ug/L	
Y	89		482274.833	ug/L	
Mo	95	22.084863	88994.377	ug/L	0.104
Rh	103		392019.593	ug/L	
Ag	107	-0.091160	877.718	ug/L	0.008
Ag	109	-0.088534	868.717	ug/L	0.005
Cd	111	0.063080	245.339	ug/L	0.013
Cd	114	0.047527	475.017	ug/L	0.003
In	115		497348.242	ug/L	
Sb	121	0.045290	591.025	ug/L	0.001
Sb	123	0.045371	455.205	ug/L	0.002
Ba	137	43.494093	188201.335	ug/L	0.277
Ba	138	43.366107	1211474.696	ug/L	0.104
Tb	159		582367.777	ug/L	
Ho	165		558737.479	ug/L	
Hg	200	-0.000626	21.334	ug/L	0.005
Hg	202	-0.003419	17.667	ug/L	0.000
Tl	205	-0.012187	959.060	ug/L	0.005
Pb	208	0.098111	4233.099	ug/L	0.003
Bi	209		407500.928	ug/L	
Se	77	1.134401	1150.740	mg/L	0.310
Se	78	-1.272448	18982.738	mg/L	0.542
Se	82	3.130648	655.079	mg/L	0.001

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.314
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 86.545
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 85.481
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 89.797
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17
Sample Date/Time: Saturday, September 08, 2012 05:10:31
Autosampler Position: 85
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17.49370

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5358.914	ug/L	
Be	9	0.021332	10.000	ug/L	0.000
B	10	253.210460	17902.122	ug/L	0.068
B	11	274.338570	96837.332	ug/L	2.402
C	12		680303.990	ug/L	
Na	23	88220.473363	681306719.312	ug/L	1921.917
Mg	24	11973.094344	62833841.064	ug/L	69.903
Mg	25	11813.171466	8882707.934	ug/L	361.462
Al	27	4.195716	42865.157	ug/L	0.199
Si	28		32151867.945	ug/L	
P	31	207.034307	102963.378	ug/L	2.158
S	32		104504042.952	ug/L	
Cl	35		12353794.590	ug/L	
K	39	7768.355673	101090866.694	ug/L	228.195
Ca	44	25674.506448	9693597.806	ug/L	537.866
Sc	45		236645.848	ug/L	
Ti	47	2.035279	2294.646	ug/L	0.097
Ti	48	17.838247	186911.628	ug/L	1.051
V	51	0.239408	41694.145	ug/L	0.032
ClO	51		42753.725	ug/L	
Cr	52	0.019209	11913.503	ug/L	0.000
Cr	53	0.160768	13096.224	ug/L	0.130
Fe	54	7221.811766	7119931.231	ug/L	186.665
Mn	55	444.380638	8189312.886	ug/L	1.667
Fe	56	7150.939146	127463527.371	ug/L	97.763
Fe	57	8430.180505	3106872.058	ug/L	177.355
Co	59	0.104233	2162.279	ug/L	0.004
Ni	60	5.032978	14481.338	ug/L	0.077
Ni	62	4.748628	2058.920	ug/L	0.070
Cu	63	1.105437	7805.428	ug/L	0.011
Zn	64	2.465818	8300.644	ug/L	0.022
Cu	65	0.085953	415.014	ug/L	0.005
Zn	66	2.255503	4455.136	ug/L	0.065
Zn	68	4.377835	5871.621	ug/L	0.075
Ge	72		178552.415	ug/L	
As	75	4.415592	7223.451	ug/L	0.046
Se	74	4.196346	11963.472	mg/L	7.267
ArCl	77		1132.749	ug/L	
Br	79		243833.680	ug/L	

Br	81		286255.626	ug/L	
Y	89		474647.755	ug/L	
Mo	95	3.091909	12573.148	ug/L	0.021
Rh	103		396119.525	ug/L	
Ag	107	-0.094424	842.047	ug/L	0.002
Ag	109	-0.096559	784.042	ug/L	0.000
Cd	111	0.015204	116.335	ug/L	0.004
Cd	114	0.008258	233.339	ug/L	0.002
In	115		497371.326	ug/L	
Sb	121	0.032337	474.350	ug/L	0.000
Sb	123	0.030026	349.368	ug/L	0.001
Ba	137	81.685036	353401.596	ug/L	1.155
Ba	138	87.603475	2446947.133	ug/L	0.983
Tb	159		592426.204	ug/L	
Ho	165		560179.131	ug/L	
Hg	200	0.018486	57.667	ug/L	0.006
Hg	202	0.010819	52.667	ug/L	0.002
Tl	205	-0.017180	846.048	ug/L	0.007
Pb	208	0.022195	1818.089	ug/L	0.002
Bi	209		410078.817	ug/L	
Se	77	0.877015	1114.735	mg/L	0.431
Se	78	-1.148343	19041.370	mg/L	1.018
Se	82	2.866121	599.700	mg/L	0.123

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.942
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 86.994
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 85.485
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 90.029
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.18
Sample Date/Time: Saturday, September 08, 2012 05:42:43
Autosampler Position: 86
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.18.49375

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5768.497	ug/L	
Be	9	0.042178	17.000	ug/L	0.010
B	10	394.847591	30239.525	ug/L	3.887
B	11	412.874893	157862.742	ug/L	14.724
C	12		813700.691	ug/L	
Na	23	82877.922689	693986449.123	ug/L	4413.375
Mg	24	20020.365254	113958967.821	ug/L	572.728
Mg	25	19738.863271	16099512.214	ug/L	580.430
Al	27	6.979278	71262.130	ug/L	0.002
Si	28		41557641.611	ug/L	
P	31	199.708005	108184.545	ug/L	2.034
S	32		110821054.560	ug/L	
Cl	35		13142938.260	ug/L	
K	39	30692.213427	430108561.060	ug/L	635.763
Ca	44	63207.237729	25845089.216	ug/L	713.722
Sc	45		256801.069	ug/L	
Ti	47	2.573310	3065.548	ug/L	0.031
Ti	48	65.336007	749468.087	ug/L	3.700
V	51	0.470734	48704.940	ug/L	0.097
ClO	51		49810.929	ug/L	
Cr	52	0.413915	17835.842	ug/L	0.033
Cr	53	-0.195318	13659.057	ug/L	0.332
Fe	54	30088.881777	31930348.477	ug/L	974.869
Mn	55	3059.264500	61126564.486	ug/L	104.438
Fe	56	29864.920273	563034102.575	ug/L	459.226
Fe	57	33976.887145	13537463.089	ug/L	847.018
Co	59	0.882220	13620.332	ug/L	0.025
Ni	60	7.048990	21966.728	ug/L	0.183
Ni	62	5.717792	2678.088	ug/L	0.062
Cu	63	1.067992	8199.445	ug/L	0.014
Zn	64	2.226755	8205.814	ug/L	0.046
Cu	65	0.148475	666.698	ug/L	0.008
Zn	66	1.865777	4073.286	ug/L	0.053
Zn	68	4.049981	5920.987	ug/L	0.085
Ge	72		183738.252	ug/L	
As	75	4.599379	7752.378	ug/L	0.007
Se	74	-55.987519	6341.437	mg/L	17.692
ArCl	77		1180.088	ug/L	
Br	79		437738.098	ug/L	

Br	81		485871.855	ug/L	
Y	89		482462.124	ug/L	
Mo	95	0.256638	1127.081	ug/L	0.013
Rh	103		396092.514	ug/L	
Ag	107	0.114150	3148.912	ug/L	0.023
Ag	109	0.111040	2990.522	ug/L	0.012
Cd	111	0.006526	93.335	ug/L	0.004
Cd	114	0.015173	276.674	ug/L	0.003
In	115		498857.757	ug/L	
Sb	121	0.106155	1142.417	ug/L	0.002
Sb	123	0.106642	879.949	ug/L	0.003
Ba	137	92.680451	402199.803	ug/L	0.410
Ba	138	98.197613	2751236.217	ug/L	0.128
Tb	159		593241.110	ug/L	
Ho	165		564941.218	ug/L	
Hg	200	0.005927	34.000	ug/L	0.002
Hg	202	0.002436	32.334	ug/L	0.002
Tl	205	-0.014201	922.723	ug/L	0.006
Pb	208	0.018859	1726.081	ug/L	0.003
Bi	209		433012.412	ug/L	
Se	77	1.496657	1201.414	mg/L	1.308
Se	78	-1.440173	18903.499	mg/L	0.064
Se	82	5.246442	1098.030	mg/L	0.079

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		112.794
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 89.521
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 85.740
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 90.794
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.20
Sample Date/Time: Saturday, September 08, 2012 05:49:14
Autosampler Position: 87
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.20.49376

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5437.626	ug/L	
Be	9	0.000914	4.000	ug/L	0.008
B	10	6.616521	496.685	ug/L	0.707
B	11	7.475639	2718.436	ug/L	1.054
C	12		560510.285	ug/L	
Na	23	261.692173	1854362.913	ug/L	2.901
Mg	24	10.952273	52791.480	ug/L	0.333
Mg	25	10.891635	7530.538	ug/L	0.145
Al	27	8.351805	69881.253	ug/L	0.263
Si	28		1365537.456	ug/L	
P	31	3.884902	10760.827	ug/L	3.256
S	32		108083549.846	ug/L	
Cl	35		9949338.904	ug/L	
K	39	12.987159	1044221.773	ug/L	1.222
Ca	44	105.134719	62362.765	ug/L	2.818
Sc	45		215032.115	ug/L	
Ti	47	0.040496	299.341	ug/L	0.043
Ti	48	0.182150	-117.475	ug/L	0.018
V	51	0.220088	37645.181	ug/L	0.055
ClO	51		37907.599	ug/L	
Cr	52	0.026361	10899.594	ug/L	0.012
Cr	53	0.121315	11850.506	ug/L	0.178
Fe	54	4.493737	68839.413	ug/L	0.035
Mn	55	0.080994	4136.316	ug/L	0.002
Fe	56	4.637569	3898309.183	ug/L	3.502
Fe	57	-3.025665	11404.957	ug/L	0.773
Co	59	-0.002683	666.698	ug/L	0.000
Ni	60	0.087579	296.341	ug/L	0.009
Ni	62	0.107169	89.001	ug/L	0.005
Cu	63	0.136612	1259.767	ug/L	0.001
Zn	64	0.809714	2906.699	ug/L	0.000
Cu	65	0.143113	543.022	ug/L	0.003
Zn	66	0.829843	1721.847	ug/L	0.031
Zn	68	0.854045	1294.438	ug/L	0.031
Ge	72		182019.052	ug/L	
As	75	-0.083834	-381.224	ug/L	0.005
Se	74	49.954970	16689.371	mg/L	5.432
ArCl	77		767.707	ug/L	
Br	79		7342.712	ug/L	

Br	81		36018.262	ug/L	
Y	89		482937.650	ug/L	
Mo	95	0.026668	167.670	ug/L	0.001
Rh	103		432739.783	ug/L	
Ag	107	0.066926	2787.146	ug/L	0.081
Ag	109	0.060652	2604.761	ug/L	0.091
Cd	111	-0.004329	68.001	ug/L	0.004
Cd	114	-0.005258	159.670	ug/L	0.002
In	115		529429.438	ug/L	
Sb	121	0.021213	398.346	ug/L	0.001
Sb	123	0.022828	319.167	ug/L	0.004
Ba	137	0.126980	642.696	ug/L	0.004
Ba	138	0.127377	4099.115	ug/L	0.000
Tb	159		606440.923	ug/L	
Ho	165		582456.084	ug/L	
Hg	200	0.000968	25.334	ug/L	0.002
Hg	202	-0.003583	18.000	ug/L	0.001
Tl	205	-0.004598	1181.089	ug/L	0.008
Pb	208	0.006960	1384.389	ug/L	0.002
Bi	209		430062.262	ug/L	
Se	77	-1.896979	726.696	mg/L	0.067
Se	78	-1.570265	18842.040	mg/L	0.481
Se	82	0.025179	4.936	mg/L	0.050

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		94.448
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 88.683
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 90.995
Sb
Sb
Ba
Ba
Tb
> Ho 93.609
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.01
Sample Date/Time: Saturday, September 08, 2012 07:59:26
Autosampler Position: 103
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.01.49396

QC good

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5352.242	ug/L	
Be	9	-0.000080	4.333	ug/L	0.005
B	10	229.838980	17007.731	ug/L	2.971
B	11	236.728092	87467.689	ug/L	5.883
C	12		1651099.570	ug/L	
Na	23	22281.034590	180029287.511	ug/L	503.510
Mg	24	16562.556064	90934755.400	ug/L	35.234
Mg	25	16329.164508	12846635.900	ug/L	8.974
Al	27	1.031927	17735.722	ug/L	0.021
Si	28		51296525.035	ug/L	
P	31	497.771387	244139.360	ug/L	13.892
S	32		103586220.672	ug/L	
Cl	35		9560769.362	ug/L	
K	39	27202.079436	367758833.204	ug/L	4.887
Ca	44	55942.735027	22058392.308	ug/L	1602.492
Sc	45		247584.917	ug/L	
Ti	47	3.313944	3717.464	ug/L	0.175
Ti	48	59.969000	662642.204	ug/L	4.259
V	51	-0.067546	39166.247	ug/L	0.009
ClO	51		40256.011	ug/L	
Cr	52	0.224791	14929.897	ug/L	0.037
Cr	53	-1.322952	11513.735	ug/L	0.033
Fe	54	18417.214451	18882945.044	ug/L	236.085
Mn	55	1044.528081	20134533.866	ug/L	3.058
Fe	56	18356.636932	335478829.368	ug/L	561.487
Fe	57	21160.337223	8136687.676	ug/L	213.055
Co	59	3.367263	47873.199	ug/L	0.017
Ni	60	7.074146	21263.052	ug/L	0.031
Ni	62	6.102871	2752.444	ug/L	0.091
Cu	63	0.339655	2856.148	ug/L	0.058
Zn	64	5.854880	19604.441	ug/L	0.166
Cu	65	0.164200	695.700	ug/L	0.004
Zn	66	5.329356	10435.424	ug/L	0.017
Zn	68	6.719921	9235.114	ug/L	0.086
Ge	72		179040.571	ug/L	
As	75	61.104180	103217.644	ug/L	0.782
Se	74	-53.379754	6434.072	mg/L	8.251
ArCl	77		848.381	ug/L	
Br	79		62694.774	ug/L	

Br	81		91998.095	ug/L	
Y	89		445237.782	ug/L	
Mo	95	0.828869	3421.679	ug/L	0.031
Rh	103		379458.878	ug/L	
Ag	107	0.146823	3380.351	ug/L	0.086
Ag	109	0.147377	3251.634	ug/L	0.085
Cd	111	0.011933	104.002	ug/L	0.003
Cd	114	0.018639	287.341	ug/L	0.003
In	115		480796.058	ug/L	
Sb	121	0.104339	1085.409	ug/L	0.007
Sb	123	0.104148	831.484	ug/L	0.001
Ba	137	58.806810	245976.416	ug/L	0.353
Ba	138	58.200605	1571692.833	ug/L	0.106
Tb	159		564064.829	ug/L	
Ho	165		540294.258	ug/L	
Hg	200	0.004165	29.334	ug/L	0.001
Hg	202	0.001748	29.334	ug/L	0.001
Tl	205	0.008539	1388.787	ug/L	0.001
Pb	208	0.027701	1924.766	ug/L	0.005
Bi	209		402029.596	ug/L	
Se	77	-1.086718	840.039	mg/L	0.216
Se	78	-1.395863	18924.433	mg/L	0.683
Se	82	0.701338	146.493	mg/L	0.139

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		108.746
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

87.232

82.636

86.833

Sample ID: 113653.02
Sample Date/Time: Saturday, September 08, 2012 08:05:58
Autosampler Position: 104
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.02.49397

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5196.152	ug/L	
Be	9	0.015809	8.333	ug/L	0.002
B	10	328.222855	22765.698	ug/L	5.368
B	11	344.862050	119453.287	ug/L	8.344
C	12		1777745.576	ug/L	
Na	23	63515.999310	481734961.630	ug/L	1327.806
Mg	24	24635.746614	126959678.189	ug/L	647.581
Mg	25	24474.416809	18072843.120	ug/L	714.811
Al	27	14.698826	126591.208	ug/L	0.187
Si	28		35010703.384	ug/L	
P	31	35.697040	25642.008	ug/L	0.097
S	32		100744962.134	ug/L	
Cl	35		10921394.578	ug/L	
K	39	19717.551966	250481572.087	ug/L	449.719
Ca	44	72166.406598	26705240.710	ug/L	1353.820
Sc	45		232417.600	ug/L	
Ti	47	2.481793	2685.757	ug/L	0.071
Ti	48	80.666402	837035.185	ug/L	2.776
V	51	1.665071	60369.740	ug/L	0.103
ClO	51		61765.060	ug/L	
Cr	52	1.278921	25893.739	ug/L	0.033
Cr	53	0.180504	12889.928	ug/L	0.009
Fe	54	44010.796708	42257525.930	ug/L	468.682
Mn	55	1282.043559	23196793.080	ug/L	22.800
Fe	56	43753.888880	744771191.325	ug/L	625.575
Fe	57	50192.738924	18097267.212	ug/L	1995.175
Co	59	11.961961	157708.834	ug/L	0.229
Ni	60	15.319254	43135.525	ug/L	0.166
Ni	62	13.921833	5827.926	ug/L	0.224
Cu	63	0.795782	5651.480	ug/L	0.014
Zn	64	2.985569	9724.488	ug/L	0.017
Cu	65	0.173152	681.032	ug/L	0.014
Zn	66	2.596535	4976.745	ug/L	0.002
Zn	68	5.792350	7519.184	ug/L	0.175
Ge	72		175310.493	ug/L	
As	75	143.104148	236964.884	ug/L	3.169
Se	74	-114.958543	470.157	mg/L	13.994
ArCl	77		972.729	ug/L	
Br	79		360779.506	ug/L	

Br	81		405908.045	ug/L	
Y	89		476213.820	ug/L	
Mo	95	3.476702	13871.714	ug/L	0.065
Rh	103		367926.039	ug/L	
Ag	107	-0.150122	214.005	ug/L	0.003
Ag	109	-0.148481	219.338	ug/L	0.004
Cd	111	0.012977	103.335	ug/L	0.006
Cd	114	0.017321	270.673	ug/L	0.001
In	115		465802.612	ug/L	
Sb	121	0.386918	3433.683	ug/L	0.010
Sb	123	0.376884	2565.243	ug/L	0.012
Ba	137	141.171304	571973.677	ug/L	1.970
Ba	138	150.970149	3948936.218	ug/L	3.178
Tb	159		551968.450	ug/L	
Ho	165		523481.962	ug/L	
Hg	200	-0.000388	20.334	ug/L	0.001
Hg	202	0.000259	25.000	ug/L	0.000
Tl	205	0.005678	1282.771	ug/L	0.008
Pb	208	0.030947	1960.435	ug/L	0.003
Bi	209		386631.621	ug/L	
Se	77	0.000001	992.054	mg/L	0.485
Se	78	-2.721364	18298.223	mg/L	0.494
Se	82	4.219288	882.991	mg/L	0.240

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		102.085
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 85.414
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 80.059
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 84.131
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.04
Sample Date/Time: Saturday, September 08, 2012 08:12:30
Autosampler Position: 105
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.04.49398

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5406.941	ug/L	
Be	9	0.007050	6.333	ug/L	0.008
B	10	18.702751	1449.797	ug/L	0.177
B	11	20.154037	7731.031	ug/L	0.295
C	12		975452.681	ug/L	
Na	23	9279.275086	74362693.774	ug/L	56.188
Mg	24	2814.274982	15318370.932	ug/L	99.481
Mg	25	2413.343468	1882912.351	ug/L	20.206
Al	27	11.133688	103401.836	ug/L	0.463
Si	28		39632690.434	ug/L	
P	31	31.715973	25227.478	ug/L	1.647
S	32		107137793.844	ug/L	
Cl	35		9851280.379	ug/L	
K	39	1948.867452	27069604.050	ug/L	25.826
Ca	44	12035.997363	4730615.237	ug/L	125.244
Sc	45		245505.873	ug/L	
Ti	47	1.499144	1832.870	ug/L	0.049
Ti	48	8.345464	89448.762	ug/L	1.526
V	51	-0.341587	34882.835	ug/L	0.101
ClO	51		35825.496	ug/L	
Cr	52	-0.102247	10914.054	ug/L	0.002
Cr	53	-1.680248	10891.631	ug/L	0.293
Fe	54	15415.626574	15677481.247	ug/L	853.096
Mn	55	3225.072952	61622977.741	ug/L	115.433
Fe	56	14855.271715	269911267.006	ug/L	710.255
Fe	57	17144.335976	6539199.707	ug/L	307.139
Co	59	16.658673	231690.276	ug/L	0.149
Ni	60	23.716489	70493.628	ug/L	0.348
Ni	62	24.303560	10705.740	ug/L	0.340
Cu	63	0.185592	1774.858	ug/L	0.003
Zn	64	2.029333	7214.599	ug/L	0.074
Cu	65	0.139194	606.693	ug/L	0.013
Zn	66	1.495294	3204.930	ug/L	0.050
Zn	68	2.187978	3223.604	ug/L	0.092
Ge	72		178349.815	ug/L	
As	75	28.159719	47261.099	ug/L	0.000
Se	74	-24.321408	9206.199	mg/L	4.758
ArCl	77		787.042	ug/L	
Br	79		16632.378	ug/L	

Br	81		43597.066	ug/L	
Y	89		472835.244	ug/L	
Mo	95	0.193947	840.714	ug/L	0.004
Rh	103		395684.203	ug/L	
Ag	107	-0.041175	1432.461	ug/L	0.003
Ag	109	-0.052564	1252.432	ug/L	0.012
Cd	111	0.013187	111.335	ug/L	0.003
Cd	114	0.008491	235.339	ug/L	0.001
In	115		498720.706	ug/L	
Sb	121	0.074390	855.382	ug/L	0.001
Sb	123	0.076490	671.475	ug/L	0.002
Ba	137	17.891365	77659.064	ug/L	0.239
Ba	138	17.757259	497602.364	ug/L	0.076
Tb	159		581180.833	ug/L	
Ho	165		553093.221	ug/L	
Hg	200	0.000960	24.000	ug/L	0.002
Hg	202	0.000098	26.000	ug/L	0.001
Tl	205	0.006103	1365.450	ug/L	0.006
Pb	208	0.037987	2292.804	ug/L	0.008
Bi	209		430316.418	ug/L	
Se	77	-1.601473	768.032	mg/L	0.081
Se	78	-2.167250	18560.005	mg/L	0.309
Se	82	0.209730	43.573	mg/L	0.009

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.833
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 86.895
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 85.717
Sb
Sb
Ba
Ba
Tb
> Ho 88.890
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.05
Sample Date/Time: Saturday, September 08, 2012 08:44:43
Autosampler Position: 106
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.05.49403

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5262.856	ug/L	
Be	9	0.001591	4.667	ug/L	0.004
B	10	219.274310	15779.175	ug/L	6.173
B	11	230.143501	82702.666	ug/L	0.089
C	12		759414.226	ug/L	
Na	23	33519.969472	263388707.101	ug/L	450.343
Mg	24	9341.174650	49868239.284	ug/L	24.930
Mg	25	9173.704896	7016561.730	ug/L	235.210
Al	27	1.389112	20217.816	ug/L	0.087
Si	28		39433977.743	ug/L	
P	31	318.733399	155731.828	ug/L	5.150
S	32		99029033.523	ug/L	
Cl	35		9511866.464	ug/L	
K	39	15037.773237	198118668.461	ug/L	112.209
Ca	44	26877.818369	10320696.886	ug/L	387.232
Sc	45		240738.107	ug/L	
Ti	47	2.344713	2643.744	ug/L	0.077
Ti	48	21.208948	226328.338	ug/L	1.713
V	51	-0.035694	38529.862	ug/L	0.038
ClO	51		39365.774	ug/L	
Cr	52	0.141498	13543.769	ug/L	0.041
Cr	53	-1.428623	11041.813	ug/L	0.244
Fe	54	16177.917267	16131997.492	ug/L	670.629
Mn	55	793.830464	14878674.706	ug/L	9.634
Fe	56	15540.114066	276742578.684	ug/L	248.821
Fe	57	17747.542722	6638698.258	ug/L	209.456
Co	59	10.311389	140920.221	ug/L	0.162
Ni	60	8.912385	26027.134	ug/L	0.006
Ni	62	8.420603	3672.112	ug/L	0.193
Cu	63	0.460303	3591.412	ug/L	0.018
Zn	64	1.551569	5578.623	ug/L	0.019
Cu	65	0.108175	494.352	ug/L	0.002
Zn	66	1.200043	2603.732	ug/L	0.028
Zn	68	2.132802	3090.556	ug/L	0.059
Ge	72		178107.865	ug/L	
As	75	233.506629	393016.461	ug/L	5.966
Se	74	-23.349314	9288.169	mg/L	2.658
ArCl	77		893.386	ug/L	
Br	79		85080.454	ug/L	

Br	81		118422.167	ug/L	
Y	89		463997.907	ug/L	
Mo	95	22.868297	92400.145	ug/L	0.031
Rh	103		398589.315	ug/L	
Ag	107	0.104731	2972.186	ug/L	0.038
Ag	109	0.094535	2748.112	ug/L	0.035
Cd	111	0.069855	258.006	ug/L	0.005
Cd	114	0.046329	458.349	ug/L	0.000
In	115		487372.306	ug/L	
Sb	121	0.129042	1318.109	ug/L	0.002
Sb	123	0.127555	1001.011	ug/L	0.002
Ba	137	28.530268	120993.065	ug/L	0.169
Ba	138	28.242248	773177.739	ug/L	0.436
Tb	159		570597.737	ug/L	
Ho	165		549145.108	ug/L	
Hg	200	0.011118	42.667	ug/L	0.003
Hg	202	0.008753	46.667	ug/L	0.001
Tl	205	0.001462	1250.432	ug/L	0.005
Pb	208	0.043867	2459.155	ug/L	0.009
Bi	209		404407.979	ug/L	
Se	77	-0.943730	860.041	mg/L	0.391
Se	78	-0.031087	19569.197	mg/L	1.112
Se	82	1.070048	223.684	mg/L	0.135

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.739
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	86.777
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	83.766
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	88.255
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.06
Sample Date/Time: Saturday, September 08, 2012 08:51:15
Autosampler Position: 107
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.06.49404

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5406.943	ug/L	
Be	9	0.008437	6.667	ug/L	0.010
B	10	201.094072	14685.666	ug/L	0.081
B	11	208.704836	76095.581	ug/L	2.126
C	12		1089793.439	ug/L	
Na	23	54172.367897	431627153.076	ug/L	1488.832
Mg	24	17744.634279	96074652.775	ug/L	29.773
Mg	25	17422.426276	13516259.992	ug/L	250.888
Al	27	3.005788	34170.845	ug/L	0.045
Si	28		40587557.520	ug/L	
P	31	202.783171	104268.396	ug/L	3.989
S	32		97983514.230	ug/L	
Cl	35		11569136.844	ug/L	
K	39	18133.786312	242091981.082	ug/L	215.517
Ca	44	42381.961987	16488863.117	ug/L	233.746
Sc	45		244152.504	ug/L	
Ti	47	2.290506	2626.739	ug/L	0.039
Ti	48	32.080564	348489.369	ug/L	0.867
V	51	0.174684	42089.966	ug/L	0.032
ClO	51		42853.871	ug/L	
Cr	52	0.228370	14766.962	ug/L	0.011
Cr	53	-0.940255	11910.917	ug/L	0.016
Fe	54	20067.398938	20281868.209	ug/L	14.497
Mn	55	1091.246766	20743586.221	ug/L	0.469
Fe	56	19688.909585	354460382.730	ug/L	311.875
Fe	57	22486.055647	8525744.886	ug/L	379.338
Co	59	3.620243	50699.511	ug/L	0.050
Ni	60	6.776244	20088.372	ug/L	0.030
Ni	62	5.853335	2605.733	ug/L	0.031
Cu	63	0.711275	5358.632	ug/L	0.005
Zn	64	1.501793	5499.801	ug/L	0.016
Cu	65	0.115838	526.687	ug/L	0.002
Zn	66	1.243675	2721.768	ug/L	0.010
Zn	68	2.909466	4145.987	ug/L	0.048
Ge	72		178283.283	ug/L	
As	75	103.395997	174079.046	ug/L	0.927
Se	74	-42.716925	7428.980	mg/L	11.515
ArCl	77		1034.736	ug/L	
Br	79		186552.709	ug/L	

Br	81		224791.592	ug/L	
Y	89		462336.270	ug/L	
Mo	95	2.589714	10523.526	ug/L	0.030
Rh	103		385385.133	ug/L	
Ag	107	-0.049922	1297.776	ug/L	0.034
Ag	109	-0.053514	1207.429	ug/L	0.035
Cd	111	0.003588	83.001	ug/L	0.000
Cd	114	0.003598	199.338	ug/L	0.001
In	115		484763.936	ug/L	
Sb	121	0.200360	1936.892	ug/L	0.005
Sb	123	0.193183	1436.365	ug/L	0.003
Ba	137	65.446746	276004.896	ug/L	0.302
Ba	138	64.234096	1748877.012	ug/L	0.674
Tb	159		570540.441	ug/L	
Ho	165		541548.677	ug/L	
Hg	200	0.008518	37.334	ug/L	0.002
Hg	202	0.004738	36.334	ug/L	0.008
Tl	205	-0.008070	1020.735	ug/L	0.007
Pb	208	0.031349	2039.776	ug/L	0.005
Bi	209		404102.531	ug/L	
Se	77	0.324112	1037.393	mg/L	0.189
Se	78	-1.587571	18833.864	mg/L	0.235
Se	82	2.337013	488.929	mg/L	0.093

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		107.239
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 86.863
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 83.318
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 87.035
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.07
Sample Date/Time: Saturday, September 08, 2012 08:57:48
Autosampler Position: 108
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07.49405

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5250.849	ug/L	
Be	9	0.022798	10.333	ug/L	0.005
B	10	193.010559	13566.255	ug/L	3.409
B	11	205.969465	72268.288	ug/L	3.496
C	12		972796.857	ug/L	
Na	23	66428.472825	509215334.820	ug/L	1019.268
Mg	24	18404.569364	95853468.667	ug/L	631.930
Mg	25	18329.586339	13680008.169	ug/L	416.006
Al	27	1.699474	22256.102	ug/L	0.002
Si	28		39571822.413	ug/L	
P	31	302.491536	144690.115	ug/L	7.962
S	32		100030656.968	ug/L	
Cl	35		12046287.604	ug/L	
K	39	17197.111641	220953340.349	ug/L	56.614
Ca	44	42819.726825	16025311.776	ug/L	1215.423
Sc	45		234905.794	ug/L	
Ti	47	2.453418	2686.424	ug/L	0.006
Ti	48	26.790318	279868.395	ug/L	3.388
V	51	0.146658	40103.009	ug/L	0.092
ClO	51		41026.445	ug/L	
Cr	52	0.119804	12970.695	ug/L	0.012
Cr	53	-0.561503	11988.353	ug/L	0.152
Fe	54	13674.145055	13319660.632	ug/L	38.942
Mn	55	1390.760693	25435177.331	ug/L	1.383
Fe	56	13466.102786	234582031.133	ug/L	25.167
Fe	57	15483.408639	5652128.415	ug/L	277.158
Co	59	0.854178	12092.492	ug/L	0.000
Ni	60	6.285158	17932.517	ug/L	0.023
Ni	62	5.553492	2381.002	ug/L	0.101
Cu	63	0.849067	6061.748	ug/L	0.007
Zn	64	1.067519	3962.623	ug/L	0.055
Cu	65	0.139329	581.358	ug/L	0.006
Zn	66	0.851562	1919.889	ug/L	0.004
Zn	68	4.005701	5361.968	ug/L	0.058
Ge	72		173533.990	ug/L	
As	75	84.074738	137745.640	ug/L	0.472
Se	74	-30.337077	8392.667	mg/L	6.339
ArCl	77		1055.405	ug/L	
Br	79		195976.870	ug/L	

Br	81		232933.076	ug/L	
Y	89		453585.787	ug/L	
Mo	95	1.967702	7796.086	ug/L	0.034
Rh	103		383198.910	ug/L	
Ag	107	-0.103136	720.703	ug/L	0.006
Ag	109	-0.104241	678.699	ug/L	0.002
Cd	111	0.016450	115.669	ug/L	0.000
Cd	114	0.012077	248.006	ug/L	0.002
In	115		480387.083	ug/L	
Sb	121	0.084296	910.055	ug/L	0.005
Sb	123	0.079001	663.432	ug/L	0.001
Ba	137	128.878662	538561.788	ug/L	0.326
Ba	138	136.413235	3680337.787	ug/L	1.018
Tb	159		566737.921	ug/L	
Ho	165		541840.779	ug/L	
Hg	200	0.047524	109.002	ug/L	0.008
Hg	202	0.029480	95.335	ug/L	0.001
Tl	205	-0.010377	970.729	ug/L	0.005
Pb	208	0.024874	1841.758	ug/L	0.002
Bi	209		383883.008	ug/L	
Se	77	0.123926	1009.389	mg/L	0.391
Se	78	-1.890430	18690.783	mg/L	1.069
Se	82	2.094791	438.218	mg/L	0.163

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.177
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 84.549
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 82.566
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 87.082
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07 MS
Sample Date/Time: Saturday, September 08, 2012 09:04:20
Autosampler Position: 109
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MS.49406

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5116.110	ug/L	
Be	9	696.971464	183132.832	ug/L	10.443
B	10	188.357916	12791.788	ug/L	3.914
B	11	199.201661	67549.452	ug/L	1.942
C	12		1443627.163	ug/L	
Na	23	73363.755710	543398317.763	ug/L	1593.131
Mg	24	27303.993556	137429059.317	ug/L	367.827
Mg	25	27067.900362	19520845.656	ug/L	586.622
Al	27	9875.604957	77582702.195	ug/L	316.551
Si	28		36765057.664	ug/L	
P	31	10122.098234	4364745.922	ug/L	73.474
S	32		105449798.954	ug/L	
Cl	35		14931242.699	ug/L	
K	39	26011.844101	322472331.413	ug/L	88.904
Ca	44	50669.514745	18320896.739	ug/L	628.242
Sc	45		226995.371	ug/L	
Ti	47	25.221426	24110.515	ug/L	0.250
Ti	48	62.374744	631454.650	ug/L	4.087
V	51	946.293665	12627788.457	ug/L	22.583
ClO	51		12985461.688	ug/L	
Cr	52	934.832223	10296945.595	ug/L	28.324
Cr	53	792.499215	1083711.558	ug/L	10.904
Fe	54	22930.970226	21535273.006	ug/L	317.023
Mn	55	2270.495304	40118100.937	ug/L	41.969
Fe	56	22116.390946	369565585.528	ug/L	1027.588
Fe	57	25359.223745	8936027.461	ug/L	766.802
Co	59	890.873511	11416430.030	ug/L	17.215
Ni	60	855.313579	2347792.413	ug/L	24.522
Ni	62	798.496876	323600.932	ug/L	13.146
Cu	63	805.765461	5120995.123	ug/L	10.176
Zn	64	840.819961	2484922.206	ug/L	12.535
Cu	65	805.262946	2467981.779	ug/L	16.391
Zn	66	768.931920	1324506.673	ug/L	17.780
Zn	68	771.287922	933946.178	ug/L	8.463
Ge	72		169486.800	ug/L	
As	75	1088.080027	1743458.489	ug/L	22.366
Se	74	127.160058	22569.185	mg/L	35.530
ArCl	77		126493.936	ug/L	
Br	79		177906.384	ug/L	

Br	81		213346.906	ug/L	
Y	89		442950.654	ug/L	
Mo	95	1126.239686	4327748.950	ug/L	0.704
Rh	103		368258.869	ug/L	
Ag	107	380.099835	3931500.880	ug/L	13.123
Ag	109	341.656454	3397434.397	ug/L	19.096
Cd	111	1089.533444	2750655.611	ug/L	16.875
Cd	114	1080.481459	6247338.251	ug/L	14.426
In	115		466872.508	ug/L	
Sb	121	1125.760026	9514001.547	ug/L	13.220
Sb	123	1115.797985	7216973.458	ug/L	15.270
Ba	137	1246.924358	5063321.418	ug/L	21.442
Ba	138	1240.783916	32530184.757	ug/L	11.759
Tb	159		544037.894	ug/L	
Ho	165		518841.821	ug/L	
Hg	200	1.078414	1914.887	ug/L	0.015
Hg	202	1.063300	2444.687	ug/L	0.032
Tl	205	1097.532387	23412887.713	ug/L	23.235
Pb	208	1058.359354	31326134.413	ug/L	10.696
Bi	209		391091.848	ug/L	
Se	77	896.910060	126456.105	mg/L	0.369
Se	78	849.678636	420999.648	mg/L	19.376
Se	82	832.474886	174281.837	mg/L	5.060

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.703
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

82.577

80.243

83.385

Sample ID: 113653.07 MSD
Sample Date/Time: Saturday, September 08, 2012 09:10:52
Autosampler Position: 110
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07 MSD.49407

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5234.841	ug/L	
Be	9	697.307824	178402.235	ug/L	3.661
B	10	189.911482	12557.459	ug/L	3.809
B	11	197.432965	65177.462	ug/L	3.644
C	12		1316536.628	ug/L	
Na	23	73772.333114	532091136.025	ug/L	1050.147
Mg	24	27622.342588	135329565.718	ug/L	1240.945
Mg	25	27219.476951	19110045.711	ug/L	1052.773
Al	27	9944.858407	76063385.218	ug/L	378.792
Si	28		35559704.405	ug/L	
P	31	10260.626751	4307750.477	ug/L	157.554
S	32		100198259.298	ug/L	
Cl	35		13953627.006	ug/L	
K	39	25887.875930	312427875.057	ug/L	607.566
Ca	44	50087.233183	17632078.005	ug/L	1288.728
Sc	45		221038.213	ug/L	
Ti	47	24.409365	22727.606	ug/L	0.118
Ti	48	35.295122	347379.944	ug/L	0.907
V	51	956.229663	12423168.687	ug/L	29.768
ClO	51		12740880.138	ug/L	
Cr	52	938.670250	10067371.240	ug/L	24.064
Cr	53	799.230981	1064030.334	ug/L	14.806
Fe	54	22490.103226	20569742.805	ug/L	70.134
Mn	55	2270.023211	39047993.973	ug/L	77.611
Fe	56	22324.928340	363269424.288	ug/L	474.635
Fe	57	25211.834739	8649820.176	ug/L	854.065
Co	59	901.999468	11252661.202	ug/L	33.925
Ni	60	868.019264	2319880.213	ug/L	26.319
Ni	62	807.359363	318602.485	ug/L	10.062
Cu	63	816.180404	5050315.003	ug/L	18.015
Zn	64	857.751116	2468008.166	ug/L	21.963
Cu	65	817.519378	2439389.307	ug/L	23.856
Zn	66	771.375055	1293605.906	ug/L	25.407
Zn	68	783.804588	924089.372	ug/L	13.742
Ge	72		169287.639	ug/L	
As	75	1067.007483	1707278.767	ug/L	27.639
Se	74	100.863515	20117.725	mg/L	35.451
ArCl	77		123596.795	ug/L	
Br	79		171682.292	ug/L	

Br	81		205424.102	ug/L	
Y	89		441789.516	ug/L	
Mo	95	1124.859474	4316542.289	ug/L	14.530
Rh	103		368976.903	ug/L	
Ag	107	429.748157	4450901.437	ug/L	1.966
Ag	109	412.678212	4107350.923	ug/L	14.359
Cd	111	1072.359432	2710825.293	ug/L	4.021
Cd	114	1071.359306	6202550.147	ug/L	3.049
In	115		467451.590	ug/L	
Sb	121	1109.549599	9389012.003	ug/L	1.801
Sb	123	1109.451879	7185194.084	ug/L	0.942
Ba	137	1231.221022	5006087.366	ug/L	2.777
Ba	138	1218.815680	31994731.944	ug/L	5.629
Tb	159		543842.364	ug/L	
Ho	165		522599.043	ug/L	
Hg	200	1.046048	1871.878	ug/L	0.023
Hg	202	1.041921	2413.678	ug/L	0.007
Tl	205	1063.009624	22838457.109	ug/L	14.221
Pb	208	1047.314150	31218918.188	ug/L	17.356
Bi	209		387521.412	ug/L	
Se	77	863.053957	121720.152	mg/L	8.210
Se	78	840.026400	416439.618	mg/L	6.249
Se	82	821.401760	171963.631	mg/L	8.966

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		97.086
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge	82.480
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In	80.342
Sb
Sb
Ba
Ba
Tb
> Ho	83.989
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.08
Sample Date/Time: Saturday, September 08, 2012 09:37:03
Autosampler Position: 114
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.08.49411

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		4921.332	ug/L	
Be	9	0.025448	10.667	ug/L	0.007
B	10	191.185097	12971.043	ug/L	0.948
B	11	203.384959	68879.054	ug/L	6.025
C	12		1011654.577	ug/L	
Na	23	65901.673800	487692473.858	ug/L	670.967
Mg	24	18599.471920	93525769.241	ug/L	299.705
Mg	25	18118.464914	13054726.702	ug/L	369.306
Al	27	1.237182	17855.971	ug/L	0.021
Si	28		38282181.210	ug/L	
P	31	297.725672	137644.535	ug/L	0.368
S	32		96351386.783	ug/L	
Cl	35		12289348.909	ug/L	
K	39	17503.329992	217067288.382	ug/L	20.101
Ca	44	42395.797690	15319303.715	ug/L	73.764
Sc	45		226758.593	ug/L	
Ti	47	2.396931	2540.047	ug/L	0.039
Ti	48	28.587611	288225.618	ug/L	1.707
V	51	0.375680	41765.480	ug/L	0.033
ClO	51		42668.326	ug/L	
Cr	52	0.196681	13366.544	ug/L	0.012
Cr	53	0.314226	12756.405	ug/L	0.076
Fe	54	13990.910266	13153671.255	ug/L	28.739
Mn	55	1408.307202	24863287.781	ug/L	17.962
Fe	56	13692.711441	230193797.541	ug/L	211.083
Fe	57	15818.494241	5574674.453	ug/L	202.842
Co	59	0.849870	11618.539	ug/L	0.020
Ni	60	6.388713	17595.195	ug/L	0.169
Ni	62	5.523769	2286.644	ug/L	0.003
Cu	63	0.875313	6019.055	ug/L	0.047
Zn	64	1.759255	5868.041	ug/L	0.006
Cu	65	0.172739	663.364	ug/L	0.002
Zn	66	1.538154	3034.537	ug/L	0.009
Zn	68	4.696541	6011.714	ug/L	0.060
Ge	72		168745.094	ug/L	
As	75	83.855595	133590.251	ug/L	0.282
Se	74	-15.790319	9479.922	mg/L	19.781
ArCl	77		1100.411	ug/L	
Br	79		194055.838	ug/L	

Br	81		228686.461	ug/L	
Y	89		449978.176	ug/L	
Mo	95	2.032605	7829.782	ug/L	0.004
Rh	103		373934.395	ug/L	
Ag	107	0.171581	3556.781	ug/L	0.133
Ag	109	0.175601	3455.738	ug/L	0.134
Cd	111	0.013895	106.668	ug/L	0.001
Cd	114	0.008550	222.005	ug/L	0.002
In	115		469897.529	ug/L	
Sb	121	0.095277	983.396	ug/L	0.003
Sb	123	0.090724	725.479	ug/L	0.007
Ba	137	129.409871	528936.061	ug/L	1.677
Ba	138	137.419697	3626312.753	ug/L	1.417
Tb	159		560947.215	ug/L	
Ho	165		533663.711	ug/L	
Hg	200	0.048887	109.668	ug/L	0.007
Hg	202	0.034763	106.335	ug/L	0.004
Tl	205	0.004668	1285.771	ug/L	0.006
Pb	208	0.040817	2298.470	ug/L	0.006
Bi	209		397473.551	ug/L	
Se	77	0.028598	996.055	mg/L	0.040
Se	78	-2.060974	18610.213	mg/L	0.696
Se	82	2.387324	499.461	mg/L	0.016

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.599
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 82.216
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 80.763
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 85.767
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.09
Sample Date/Time: Saturday, September 08, 2012 09:43:36
Autosampler Position: 115
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.09.49412

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		4958.689	ug/L	
Be	9	0.003973	5.000	ug/L	0.006
B	10	6.655114	524.687	ug/L	0.147
B	11	7.246233	2780.453	ug/L	0.277
C	12		808838.021	ug/L	
Na	23	7330.742050	54088197.963	ug/L	24.542
Mg	24	5138.550078	25750449.185	ug/L	104.519
Mg	25	5219.641316	3748829.796	ug/L	55.563
Al	27	2.352995	26524.624	ug/L	0.005
Si	28		35089463.275	ug/L	
P	31	3.692935	11234.817	ug/L	3.856
S	32		99013071.396	ug/L	
Cl	35		9112619.158	ug/L	
K	39	2306.835958	29328320.299	ug/L	16.837
Ca	44	6783.177544	2466045.801	ug/L	57.241
Sc	45		226003.010	ug/L	
Ti	47	1.413767	1606.491	ug/L	0.019
Ti	48	4.541026	43975.214	ug/L	0.054
V	51	-0.032629	36215.024	ug/L	0.003
ClO	51		36901.784	ug/L	
Cr	52	-0.051340	10604.242	ug/L	0.006
Cr	53	-0.812463	11197.672	ug/L	0.022
Fe	54	1575.456460	1536780.642	ug/L	6.941
Mn	55	377.284518	6640159.460	ug/L	3.854
Fe	56	1607.019485	30473981.729	ug/L	4.247
Fe	57	1681.680469	602223.368	ug/L	40.372
Co	59	1.301544	17341.030	ug/L	0.018
Ni	60	0.717241	2032.581	ug/L	0.006
Ni	62	0.561975	277.007	ug/L	0.013
Cu	63	0.192381	1677.172	ug/L	0.005
Zn	64	2.573124	8241.440	ug/L	0.074
Cu	65	0.169030	650.030	ug/L	0.009
Zn	66	2.243311	4233.361	ug/L	0.026
Zn	68	2.790517	3694.454	ug/L	0.014
Ge	72		173720.164	ug/L	
As	75	0.377969	394.958	ug/L	0.015
Se	74	36.204529	14635.565	mg/L	2.112
ArCl	77		768.040	ug/L	
Br	79		8485.043	ug/L	

Br	81		35696.971	ug/L	
Y	89		449698.947	ug/L	
Mo	95	0.196453	828.713	ug/L	0.003
Rh	103		392164.755	ug/L	
Ag	107	-0.075620	1031.736	ug/L	0.014
Ag	109	-0.074678	998.732	ug/L	0.011
Cd	111	0.008203	96.001	ug/L	0.002
Cd	114	0.010369	242.339	ug/L	0.006
In	115		489245.482	ug/L	
Sb	121	0.158713	1585.821	ug/L	0.001
Sb	123	0.156707	1202.456	ug/L	0.004
Ba	137	10.578570	45070.569	ug/L	0.025
Ba	138	10.609996	291790.113	ug/L	0.032
Tb	159		566092.532	ug/L	
Ho	165		543294.729	ug/L	
Hg	200	-0.000618	20.667	ug/L	0.003
Hg	202	-0.002093	20.334	ug/L	0.000
Tl	205	0.012342	1480.802	ug/L	0.005
Pb	208	0.079638	3542.973	ug/L	0.008
Bi	209		400699.036	ug/L	
Se	77	-1.534746	777.367	mg/L	0.229
Se	78	-2.313791	18490.774	mg/L	0.378
Se	82	0.065134	13.301	mg/L	0.085

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		99.267
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 84.640
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 84.088
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 87.315
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.10
Sample Date/Time: Saturday, September 08, 2012 10:15:49
Autosampler Position: 116
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.10.49417

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5060.076	ug/L	
Be	9	-0.001113	3.667	ug/L	0.006
B	10	6.082143	485.351	ug/L	0.024
B	11	6.852434	2643.744	ug/L	0.139
C	12		790906.921	ug/L	
Na	23	16052.110917	118195996.854	ug/L	92.577
Mg	24	5031.566861	25170554.044	ug/L	34.682
Mg	25	5024.226173	3601450.831	ug/L	38.879
Al	27	2.502129	27638.045	ug/L	0.074
Si	28		33837983.467	ug/L	
P	31	0.896326	10009.857	ug/L	1.538
S	32		102213477.783	ug/L	
Cl	35		8910942.088	ug/L	
K	39	3392.890675	42614841.064	ug/L	21.407
Ca	44	7636.347618	2767606.407	ug/L	108.777
Sc	45		225586.023	ug/L	
Ti	47	1.267914	1466.133	ug/L	0.143
Ti	48	5.664136	55251.920	ug/L	0.502
V	51	0.066530	37459.057	ug/L	0.015
ClO	51		38272.778	ug/L	
Cr	52	0.076732	11985.793	ug/L	0.001
Cr	53	-0.416501	11707.319	ug/L	0.272
Fe	54	92.351630	153965.808	ug/L	0.336
Mn	55	8.961394	160292.240	ug/L	0.074
Fe	56	86.029705	5427123.464	ug/L	0.254
Fe	57	109.204228	51222.384	ug/L	2.362
Co	59	0.901367	12213.321	ug/L	0.009
Ni	60	0.835300	2351.328	ug/L	0.023
Ni	62	0.904669	414.680	ug/L	0.080
Cu	63	0.466964	3408.006	ug/L	0.005
Zn	64	2.855479	9055.984	ug/L	0.071
Cu	65	0.355750	1217.427	ug/L	0.001
Zn	66	2.204114	4158.326	ug/L	0.062
Zn	68	2.644219	3511.380	ug/L	0.073
Ge	72		170729.607	ug/L	
As	75	0.039423	-158.498	ug/L	0.006
Se	74	69.815900	17481.294	mg/L	15.087
ArCl	77		936.724	ug/L	
Br	79		7419.435	ug/L	

Br	81		34352.124	ug/L	
Y	89		448070.388	ug/L	
Mo	95	2.105510	8204.116	ug/L	0.013
Rh	103		384927.071	ug/L	
Ag	107	0.212791	4100.522	ug/L	0.271
Ag	109	0.314561	5001.132	ug/L	0.124
Cd	111	0.006614	91.001	ug/L	0.001
Cd	114	0.006680	218.005	ug/L	0.002
In	115		485265.683	ug/L	
Sb	121	0.210836	2030.580	ug/L	0.003
Sb	123	0.196519	1460.078	ug/L	0.003
Ba	137	6.638183	28066.540	ug/L	0.159
Ba	138	6.590260	179851.098	ug/L	0.122
Tb	159		557994.799	ug/L	
Ho	165		531547.816	ug/L	
Hg	200	0.041487	96.001	ug/L	0.001
Hg	202	0.031403	98.002	ug/L	0.007
Tl	205	0.010876	1417.125	ug/L	0.008
Pb	208	0.044233	2393.813	ug/L	0.011
Bi	209		394504.790	ug/L	
Se	77	-1.000925	852.040	mg/L	0.202
Se	78	-1.667183	18796.253	mg/L	0.652
Se	82	0.252472	52.521	mg/L	0.018

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.084
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 83.182
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 83.404
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 85.427
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.11
Sample Date/Time: Saturday, September 08, 2012 10:22:22
Autosampler Position: 117
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.11.49418

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5635.080	ug/L	
Be	9	-0.002690	3.333	ug/L	0.003
B	10	5.847100	478.684	ug/L	0.497
B	11	6.389573	2538.380	ug/L	0.038
C	12		833940.533	ug/L	
Na	23	12090.981743	90790787.010	ug/L	321.335
Mg	24	9152.942036	46701444.590	ug/L	44.180
Mg	25	9293.845689	6795072.841	ug/L	19.993
Al	27	0.924160	15631.688	ug/L	0.105
Si	28		34108441.961	ug/L	
P	31	1.339995	10400.319	ug/L	0.054
S	32		94252367.133	ug/L	
Cl	35		9866823.160	ug/L	
K	39	4249.534531	54190665.357	ug/L	73.353
Ca	44	17523.041446	6440766.556	ug/L	234.785
Sc	45		230091.788	ug/L	
Ti	47	1.239349	1468.467	ug/L	0.021
Ti	48	12.815777	129934.904	ug/L	0.662
V	51	-0.062386	36465.688	ug/L	0.032
ClO	51		36952.988	ug/L	
Cr	52	0.008627	11465.457	ug/L	0.000
Cr	53	-0.464661	11875.537	ug/L	0.107
Fe	54	2934.307384	2853837.663	ug/L	37.319
Mn	55	589.593158	10562199.217	ug/L	9.504
Fe	56	2871.106315	52202761.858	ug/L	58.907
Fe	57	2931.743688	1059159.228	ug/L	3.838
Co	59	0.254668	4055.945	ug/L	0.006
Ni	60	0.736338	2121.936	ug/L	0.031
Ni	62	0.354234	196.671	ug/L	0.014
Cu	63	0.198154	1743.851	ug/L	0.012
Zn	64	1.763733	5967.136	ug/L	0.026
Cu	65	0.143992	584.025	ug/L	0.009
Zn	66	1.384414	2811.463	ug/L	0.050
Zn	68	1.987986	2776.452	ug/L	0.019
Ge	72		176082.265	ug/L	
As	75	0.964446	1376.909	ug/L	0.034
Se	74	-5.653815	10861.074	mg/L	1.806
ArCl	77		994.398	ug/L	
Br	79		30587.033	ug/L	

Br	81		59528.203	ug/L	
Y	89		457647.768	ug/L	
Mo	95	0.350183	1453.797	ug/L	0.007
Rh	103		389925.793	ug/L	
Ag	107	-0.096375	798.710	ug/L	0.004
Ag	109	-0.100630	721.036	ug/L	0.005
Cd	111	0.004274	84.668	ug/L	0.002
Cd	114	-0.001135	170.670	ug/L	0.002
In	115		484208.300	ug/L	
Sb	121	0.067989	774.041	ug/L	0.005
Sb	123	0.066422	584.019	ug/L	0.007
Ba	137	12.625600	53221.534	ug/L	0.224
Ba	138	12.566476	341946.557	ug/L	0.242
Tb	159		567710.641	ug/L	
Ho	165		546757.195	ug/L	
Hg	200	0.001112	24.000	ug/L	0.001
Hg	202	-0.001587	21.667	ug/L	0.000
Tl	205	0.003371	1287.105	ug/L	0.008
Pb	208	0.142112	5511.035	ug/L	0.014
Bi	209		411471.306	ug/L	
Se	77	0.238318	1025.391	mg/L	0.067
Se	78	-1.368953	18937.146	mg/L	0.195
Se	82	0.367810	76.668	mg/L	0.056

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		101.063
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	85.790
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	83.222
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	87.872
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.12
Sample Date/Time: Saturday, September 08, 2012 10:28:54
Autosampler Position: 118
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.12.49419

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5345.572	ug/L	
Be	9	0.001923	4.333	ug/L	0.013
B	10	9.685403	707.368	ug/L	0.060
B	11	9.923056	3573.738	ug/L	0.139
C	12		832221.825	ug/L	
Na	23	33354.876153	238898527.925	ug/L	446.433
Mg	24	734.732027	3576193.752	ug/L	9.909
Mg	25	642.360648	448045.925	ug/L	1.592
Al	27	12.578566	103449.615	ug/L	0.593
Si	28		23281126.564	ug/L	
P	31	129.256623	63138.223	ug/L	3.673
S	32		96423216.353	ug/L	
Cl	35		8720953.696	ug/L	
K	39	3822.418441	46591457.802	ug/L	35.155
Ca	44	5576.991705	1973788.775	ug/L	24.320
Sc	45		219462.809	ug/L	
Ti	47	1.209027	1373.117	ug/L	0.011
Ti	48	6.699995	63899.930	ug/L	0.229
V	51	0.045498	36173.191	ug/L	0.017
ClO	51		36952.657	ug/L	
Cr	52	0.009253	10942.269	ug/L	0.007
Cr	53	-0.651229	11084.532	ug/L	0.081
Fe	54	26.172167	89881.790	ug/L	0.317
Mn	55	13.205375	228431.324	ug/L	0.177
Fe	56	26.270870	4324611.767	ug/L	0.325
Fe	57	42.685165	27193.327	ug/L	1.087
Co	59	1.007280	13194.367	ug/L	0.006
Ni	60	0.426417	1201.758	ug/L	0.019
Ni	62	0.469810	233.005	ug/L	0.072
Cu	63	0.470588	3337.646	ug/L	0.013
Zn	64	1.484171	4893.953	ug/L	0.059
Cu	65	0.119628	484.684	ug/L	0.004
Zn	66	1.275597	2500.036	ug/L	0.057
Zn	68	1.715829	2329.989	ug/L	0.039
Ge	72		173934.836	ug/L	
As	75	1.999481	3062.571	ug/L	0.079
Se	74	39.531036	14961.216	mg/L	52.916
ArCl	77		938.391	ug/L	
Br	79		25137.000	ug/L	

Br	81		53401.590	ug/L	
Y	89		451124.812	ug/L	
Mo	95	0.865764	3469.030	ug/L	0.034
Rh	103		385241.254	ug/L	
Ag	107	-0.110817	640.696	ug/L	0.002
Ag	109	-0.109127	630.361	ug/L	0.001
Cd	111	0.012119	104.668	ug/L	0.004
Cd	114	0.006611	216.005	ug/L	0.003
In	115		481609.279	ug/L	
Sb	121	0.336898	3114.565	ug/L	0.002
Sb	123	0.336941	2386.204	ug/L	0.003
Ba	137	8.765605	36771.920	ug/L	0.054
Ba	138	8.721462	236160.664	ug/L	0.039
Tb	159		564034.142	ug/L	
Ho	165		538886.020	ug/L	
Hg	200	0.080436	168.337	ug/L	0.005
Hg	202	0.058596	163.670	ug/L	0.000
Tl	205	0.003586	1274.436	ug/L	0.009
Pb	208	0.048487	2557.168	ug/L	0.006
Bi	209		401570.523	ug/L	
Se	77	-0.505231	921.380	mg/L	0.121
Se	78	-1.736264	18763.616	mg/L	0.444
Se	82	0.315465	65.709	mg/L	0.077

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		96.394
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 84.744
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 82.776
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 86.607
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113653.13
Sample Date/Time: Saturday, September 08, 2012 10:35:27
Autosampler Position: 119
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.13.49420

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5269.527	ug/L	
Be	9	0.000720	4.000	ug/L	0.000
B	10	4.566791	369.678	ug/L	0.069
B	11	5.339610	2058.920	ug/L	0.005
C	12		786498.432	ug/L	
Na	23	6273.432687	44519577.116	ug/L	2.318
Mg	24	2652.708424	12788358.264	ug/L	53.865
Mg	25	2285.929070	1578877.232	ug/L	36.308
Al	27	0.881862	14442.908	ug/L	0.010
Si	28		26134552.833	ug/L	
P	31	5.875591	11698.735	ug/L	2.805
S	32		95637081.617	ug/L	
Cl	35		8273182.584	ug/L	
K	39	1769.486867	21846499.610	ug/L	12.577
Ca	44	4306.176093	1515478.457	ug/L	30.049
Sc	45		217365.340	ug/L	
Ti	47	1.057897	1223.095	ug/L	0.034
Ti	48	4.793181	44747.060	ug/L	0.070
V	51	0.028455	35607.955	ug/L	0.032
ClO	51		36081.157	ug/L	
Cr	52	-0.033105	10392.079	ug/L	0.013
Cr	53	-0.658955	10968.055	ug/L	0.037
Fe	54	-5.861889	60297.246	ug/L	1.383
Mn	55	2.654915	47730.124	ug/L	0.059
Fe	56	-11.973744	3677850.470	ug/L	1.197
Fe	57	3.407588	13698.351	ug/L	0.593
Co	59	0.517057	7051.805	ug/L	0.010
Ni	60	0.503992	1394.121	ug/L	0.024
Ni	62	0.475619	233.005	ug/L	0.040
Cu	63	0.157586	1401.122	ug/L	0.001
Zn	64	3.690564	11090.370	ug/L	0.057
Cu	65	0.145542	556.023	ug/L	0.004
Zn	66	3.402742	5983.695	ug/L	0.056
Zn	68	3.739471	4653.237	ug/L	0.034
Ge	72		171718.764	ug/L	
As	75	-0.057970	-318.879	ug/L	0.122
Se	74	37.974037	14620.185	mg/L	18.713
ArCl	77		917.056	ug/L	
Br	79		8670.894	ug/L	

Br	81		35237.516	ug/L	
Y	89		446055.187	ug/L	
Mo	95	0.167880	708.035	ug/L	0.002
Rh	103		383975.621	ug/L	
Ag	107	-0.121278	523.020	ug/L	0.001
Ag	109	-0.125393	458.349	ug/L	0.001
Cd	111	0.013623	107.335	ug/L	0.003
Cd	114	0.011955	245.006	ug/L	0.004
In	115		476095.342	ug/L	
Sb	121	0.054765	647.363	ug/L	0.000
Sb	123	0.057478	515.511	ug/L	0.001
Ba	137	5.129664	21294.123	ug/L	0.035
Ba	138	5.116522	137074.499	ug/L	0.029
Tb	159		556002.756	ug/L	
Ho	165		534236.517	ug/L	
Hg	200	-0.003191	15.667	ug/L	0.004
Hg	202	-0.002659	18.667	ug/L	0.000
Tl	205	0.012684	1463.799	ug/L	0.004
Pb	208	0.054975	2731.856	ug/L	0.014
Bi	209		396535.641	ug/L	
Se	77	-0.819807	877.376	mg/L	0.216
Se	78	-1.141591	19044.559	mg/L	0.183
Se	82	-0.007363	-1.877	mg/L	0.005

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		95.473
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 83.664
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 81.828
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 85.859
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.16
Sample Date/Time: Saturday, September 08, 2012 10:42:00
Autosampler Position: 120
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.16.49421

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5085.423	ug/L	
Be	9	0.013803	7.333	ug/L	0.000
B	10	281.816934	18397.787	ug/L	7.232
B	11	297.420979	96957.199	ug/L	10.198
C	12		1127603.053	ug/L	
Na	23	91809.542591	655022423.728	ug/L	1306.157
Mg	24	14841.598387	71951541.530	ug/L	263.203
Mg	25	14401.771965	10004671.649	ug/L	93.374
Al	27	4.802498	44195.022	ug/L	0.263
Si	28		23454695.532	ug/L	
P	31	75.737783	40711.685	ug/L	0.359
S	32		98051353.268	ug/L	
Cl	35		11476132.882	ug/L	
K	39	7968.283561	95764011.561	ug/L	1.385
Ca	44	36380.315718	12677440.980	ug/L	175.157
Sc	45		218616.053	ug/L	
Ti	47	1.343888	1490.470	ug/L	0.056
Ti	48	26.477734	257176.686	ug/L	2.350
V	51	0.450620	41224.688	ug/L	0.067
ClO	51		42431.231	ug/L	
Cr	52	0.197451	12894.618	ug/L	0.054
Cr	53	-0.183865	11649.910	ug/L	0.081
Fe	54	4329.124213	3969398.172	ug/L	99.963
Mn	55	3618.681552	61584792.106	ug/L	148.604
Fe	56	4178.686308	70425797.643	ug/L	138.663
Fe	57	4240.206206	1449835.880	ug/L	64.055
Co	59	4.702141	58747.266	ug/L	0.191
Ni	60	6.334731	16819.063	ug/L	0.315
Ni	62	5.683866	2266.972	ug/L	0.173
Cu	63	1.117145	7282.324	ug/L	0.045
Zn	64	1.006017	3513.704	ug/L	0.038
Cu	65	0.119715	483.018	ug/L	0.006
Zn	66	0.748961	1616.493	ug/L	0.026
Zn	68	1.825794	2449.021	ug/L	0.043
Ge	72		169747.459	ug/L	
As	75	34.972985	55918.477	ug/L	0.091
Se	74	17.163285	12558.522	mg/L	4.008
ArCl	77		1112.413	ug/L	
Br	79		203594.953	ug/L	

Br	81		241590.781	ug/L	
Y	89		454442.871	ug/L	
Mo	95	20.836708	80244.065	ug/L	0.060
Rh	103		372193.034	ug/L	
Ag	107	-0.129577	431.681	ug/L	0.003
Ag	109	-0.128490	423.014	ug/L	0.005
Cd	111	0.069223	248.339	ug/L	0.003
Cd	114	0.056033	500.685	ug/L	0.000
In	115		472074.398	ug/L	
Sb	121	0.104660	1068.073	ug/L	0.004
Sb	123	0.099698	787.321	ug/L	0.000
Ba	137	40.659421	166982.305	ug/L	0.806
Ba	138	40.206960	1066045.237	ug/L	0.760
Tb	159		553377.119	ug/L	
Ho	165		526990.332	ug/L	
Hg	200	0.001408	23.667	ug/L	0.002
Hg	202	0.001494	28.000	ug/L	0.001
Tl	205	0.000450	1178.422	ug/L	0.007
Pb	208	0.045620	2414.818	ug/L	0.003
Bi	209		396374.683	ug/L	
Se	77	0.714956	1092.066	mg/L	0.148
Se	78	-2.304183	18495.313	mg/L	0.760
Se	82	2.435094	509.462	mg/L	0.079

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.023
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 82.704
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 81.137
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 84.695
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17
Sample Date/Time: Saturday, September 08, 2012 10:48:32
Autosampler Position: 121
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17.49422

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		4807.939	ug/L	
Be	9	0.004875	5.000	ug/L	0.017
B	10	236.539563	15149.103	ug/L	10.385
B	11	252.294051	80688.305	ug/L	3.396
C	12		1130213.969	ug/L	
Na	23	85340.412654	596927692.583	ug/L	1881.548
Mg	24	11586.003146	55071332.119	ug/L	106.184
Mg	25	11738.181678	7994510.017	ug/L	203.204
Al	27	1.494446	18794.675	ug/L	0.163
Si	28		28236223.373	ug/L	
P	31	169.776261	78125.382	ug/L	0.808
S	32		94232414.475	ug/L	
Cl	35		11566167.288	ug/L	
K	39	7521.956174	88679376.566	ug/L	116.746
Ca	44	25010.352682	8554306.568	ug/L	309.686
Sc	45		214353.837	ug/L	
Ti	47	1.689756	1770.524	ug/L	0.091
Ti	48	17.070434	161762.871	ug/L	2.797
V	51	0.231245	37660.557	ug/L	0.056
ClO	51		38195.120	ug/L	
Cr	52	0.108190	11715.091	ug/L	0.015
Cr	53	-0.107064	11520.744	ug/L	0.022
Fe	54	6903.724933	6167471.705	ug/L	161.234
Mn	55	432.094381	7212659.866	ug/L	2.621
Fe	56	6859.722101	110901784.685	ug/L	117.603
Fe	57	7832.398554	2615262.823	ug/L	86.284
Co	59	0.709084	9276.492	ug/L	0.030
Ni	60	4.942972	12881.916	ug/L	0.104
Ni	62	4.551469	1789.194	ug/L	0.125
Cu	63	1.058628	6788.268	ug/L	0.031
Zn	64	1.332405	4356.422	ug/L	0.025
Cu	65	0.113071	454.349	ug/L	0.002
Zn	66	1.111217	2173.948	ug/L	0.025
Zn	68	3.105593	3863.860	ug/L	0.067
Ge	72		163140.126	ug/L	
As	75	4.174233	6227.266	ug/L	0.162
Se	74	15.244260	11900.822	mg/L	7.413
ArCl	77		1051.738	ug/L	
Br	79		176494.341	ug/L	

Br	81		211305.491	ug/L	
Y	89		427480.410	ug/L	
Mo	95	3.004570	11164.630	ug/L	0.013
Rh	103		358448.887	ug/L	
Ag	107	-0.124327	469.017	ug/L	0.008
Ag	109	-0.130033	393.012	ug/L	0.003
Cd	111	0.003633	78.001	ug/L	0.005
Cd	114	0.006663	204.338	ug/L	0.005
In	115		454948.588	ug/L	
Sb	121	0.133260	1265.101	ug/L	0.006
Sb	123	0.121432	895.708	ug/L	0.005
Ba	137	78.414243	310342.764	ug/L	1.136
Ba	138	76.469907	1953953.122	ug/L	0.361
Tb	159		535552.921	ug/L	
Ho	165		508234.170	ug/L	
Hg	200	0.013700	44.001	ug/L	0.001
Hg	202	0.011633	49.667	ug/L	0.004
Tl	205	-0.007366	973.395	ug/L	0.005
Pb	208	0.026118	1763.086	ug/L	0.006
Bi	209		376311.060	ug/L	
Se	77	0.219252	1022.724	mg/L	0.013
Se	78	-2.209871	18539.869	mg/L	2.127
Se	82	1.981787	414.560	mg/L	0.048

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		94.150
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 79.485
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 78.194
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 81.680
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.20
Sample Date/Time: Saturday, September 08, 2012 10:55:05
Autosampler Position: 122
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.20.49423

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5172.138	ug/L	
Be	9	-0.003157	2.667	ug/L	0.000
B	10	5.618120	385.679	ug/L	0.487
B	11	6.027879	2009.577	ug/L	0.857
C	12		571715.185	ug/L	
Na	23	257.296559	1625231.728	ug/L	0.855
Mg	24	10.242009	44027.422	ug/L	0.281
Mg	25	10.204877	6292.806	ug/L	0.080
Al	27	8.315910	62040.494	ug/L	0.174
Si	28		1203479.905	ug/L	
P	31	4.229687	9716.172	ug/L	1.366
S	32		96794335.797	ug/L	
Cl	35		9238225.052	ug/L	
K	39	20.418334	1008053.083	ug/L	2.666
Ca	44	107.287239	56225.614	ug/L	4.203
Sc	45		191648.573	ug/L	
Ti	47	0.001680	236.005	ug/L	0.015
Ti	48	0.141839	-450.474	ug/L	0.007
V	51	0.436760	35988.149	ug/L	0.048
ClO	51		36799.391	ug/L	
Cr	52	0.113347	10521.241	ug/L	0.024
Cr	53	0.892051	11441.645	ug/L	0.072
Fe	54	0.420364	58126.556	ug/L	1.252
Mn	55	0.054341	3285.298	ug/L	0.032
Fe	56	18.487893	3667598.267	ug/L	2.614
Fe	57	-5.353042	9472.546	ug/L	0.590
Co	59	0.009470	725.370	ug/L	0.004
Ni	60	0.064050	209.671	ug/L	0.002
Ni	62	0.073169	67.668	ug/L	0.007
Cu	63	0.036302	584.358	ug/L	0.005
Zn	64	0.316001	1359.046	ug/L	0.008
Cu	65	0.047716	237.005	ug/L	0.006
Zn	66	0.308438	776.374	ug/L	0.015
Zn	68	0.357335	646.363	ug/L	0.036
Ge	72		170178.516	ug/L	
As	75	-0.053473	-306.309	ug/L	0.062
Se	74	44.351469	15060.408	mg/L	22.715
ArCl	77		799.043	ug/L	
Br	79		3099.893	ug/L	

Br	81		29264.988	ug/L	
Y	89		446868.446	ug/L	
Mo	95	0.038848	203.671	ug/L	0.002
Rh	103		399531.640	ug/L	
Ag	107	-0.133749	401.013	ug/L	0.000
Ag	109	-0.131296	408.013	ug/L	0.001
Cd	111	-0.000051	74.001	ug/L	0.005
Cd	114	-0.002926	161.336	ug/L	0.004
In	115		487590.810	ug/L	
Sb	121	0.004750	221.672	ug/L	0.002
Sb	123	0.007164	188.119	ug/L	0.000
Ba	137	0.132026	613.694	ug/L	0.011
Ba	138	0.128686	3810.409	ug/L	0.003
Tb	159		563892.486	ug/L	
Ho	165		536063.030	ug/L	
Hg	200	-0.002317	17.334	ug/L	0.002
Hg	202	-0.002970	18.000	ug/L	0.002
Tl	205	0.004920	1298.106	ug/L	0.007
Pb	208	0.030594	1997.440	ug/L	0.009
Bi	209		393359.429	ug/L	
Se	77	-2.049497	705.361	mg/L	0.148
Se	78	-1.677478	18791.389	mg/L	0.184
Se	82	0.081057	16.634	mg/L	0.007

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		84.178
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

82.914

83.804

86.153

Sample/Batch Report

User Name: ICPMS1
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\AQUIRE_September102012.sam
Report Date/Time: Tuesday, September 11, 2012 12:50:56

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
		Calibration Blank		Sample					
2		Hg0.1ppbCS		Sample					
3		Hg1.0ppbCS		Sample					
4		Hg5.0ppbCS		Sample					
9		TM.5ppbCS		Sample					
10		TM5ppbCS		Sample					
11		TM20ppbCS		Sample					
12		Min100CS		Sample					
13		Min1000CS		Sample					
14		Min5000CS		Sample					
5		Reagent Blank		Sample					
6		SCP_ICV		Sample					
15		ERA DWQC_ICV		Sample					
7		ERA WWQC_ICV		Sample					
8		MIN_ICV		Sample					
16		flush		Sample					
17		flush		Sample					
18		LLCS		Sample					
19		0.5ppb		Sample					
20		ICSA		Sample					
21		ICSAB		Sample					
22		5ppm LRC-flush		Sample					
23		flush		Sample					
24		113653.18	1:10 min LR	Sample					
25		113653.01	1:1 Be rerun	Sample					
26		113653.02	1:1 Be rerun	Sample					
27		113653.03	1:1 Be rerun	Sample					
28		113653.04	1:1 Be rerun	Sample					
29		113653.05	1:1 Be rerun	Sample					
30		113653.06	1:1 Be rerun	Sample					
31		113653.07	1:1 Be rerun	Sample					
32		113653.08	1:1 Be rerun	Sample					
33		113653.09	1:1 Be rerun	Sample					
34		113653.10	1:1 Be rerun	Sample					
35		113653.11	1:1 Be rerun	Sample					
36		113653.12	1:1 Be rerun	Sample					
37		113653.13	1:1 Be rerun	Sample					
38		113653.14	1:1 Be rerun	Sample					
39		113653.15	1:1 Be rerun	Sample					
40		113653.16	1:1 Be rerun	Sample					
41		113653.17	1:1 Be rerun	Sample					
42		113653.18	1:1 Be rerun	Sample					
43		113653.20	1:1 Be rerun	Sample					
44		113689.01	1:1 Be rerun	Sample					
45		113689.02	1:1 Be rerun	Sample					
46		113689.03	1:1 Be rerun	Sample					
47		113689.04	1:1 Be rerun	Sample					
48		113689.05	1:1 Be rerun	Sample					
49		113689.06	1:1 Be rerun	Sample					

50	113689.07	1:1 Be rerun	Sample
51	113689.08	1:1 Be rerun	Sample
52	113689.09	1:1 Be rerun	Sample
53	113689.10	1:1 Be rerun	Sample
54	113689.11	1:1 Be rerun	Sample
55	flush		Sample
56	Soil BLK	1:25	Sample
57	Soil LCS	1:25	Sample
58	Soil QC	1:50	Sample
59	Soil Ag LCS	1:10	Sample
60	flush		Sample
61	flush		Sample
62	113706.01	1:25	Sample
63	113862.01	1:25	Sample
64	113862.03	1:25	Sample
65	113862.04	1:25	Sample
66	113862.06	1:25	Sample
67	113921.01	1:25	Sample
68	113921.02	1:25	Sample
69	113921.03	1:25	Sample
70	113924.01	1:25	Sample
71	113924.01 MS	1:25	Sample
72	113924.01 MS	1:25	Sample
73	flush		Sample
74	flush		Sample
75	flush		Sample
76	BLK		Sample
77	filter BLK		Sample
78	Ag LCS		Sample
79	LCS		Sample
80	filter LCS		Sample
81	LCS	1:10	Sample
82	flush		Sample
83	flush		Sample
84	flush		Sample
85	113766.01		Sample
86	113768.01		Sample
87	113787.01		Sample
88	113787.02		Sample
89	113787.03		Sample
90	113804.01		Sample
91	113858.02		Sample
92	113858.03		Sample
93	113781.01		Sample
94	113781.02		Sample
95	113781.02 MS		Sample
96	113781.02 MSD		Sample
97	flush		Sample
98	flush		Sample
99	flush		Sample
100	113780.01	1:10 dig	Sample
101	113780.01	1:10 dig w/ HCl	Sample
102	113780.01	1:10 from STR	Sample
103	113780.01	1:10 from STR	Sample
104	flush		Sample
105	113876.01	1:100	Sample
106	113876.02	1;100	Sample
107	113876.03	1:100	Sample
108	113876.04	1:100	Sample
109	113884.01		Sample

110	113884.01 MS		Sample
111	113884.01 MSD		Sample
112	flush		Sample
113	flush		Sample
114	flush		Sample
115	113794.01		Sample
116	113888.01		Sample
117	113903.01		Sample
118	113751.01		Sample
119	113752.01		Sample
120	113882.01		Sample
121	113882.02		Sample
122	113882.03		Sample
123	113882.04		Sample
124	113882.05		Sample
125	113882.05 MS		Sample
126	113882.05 MSD		Sample
127	flush		Sample
128	flush		Sample
129	flush		Sample
130	113773.01		Sample
131	113773.02		Sample
132	113773.03		Sample
133	113818.01		Sample
134	113818.02		Sample
135	113823.01		Sample
136	113823.02		Sample
137	113823.03		Sample
138	113823.04		Sample
139	113823.05		Sample
140	113823.05 MS		Sample
141	113823.05 MSD		Sample
142	flush		Sample
143	flush		Sample
144	flush		Sample
145	113778.02		Sample
146	113819.01		Sample
147	113842.01		Sample
148	113756.01		Sample
149	113762.01	1:10	Sample
150	113820.01	1:10	Sample
151	113820.01	1:4	Sample
152	113820.01	1:1	Sample
153	113820.01		Sample
154	flush		Sample
155			Sample
156			Sample
157			Sample
158			Sample
159			Sample
160			Sample

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Monday, September 10, 2012 12:43:56	103	102	104	103
QC Std 2	Monday, September 10, 2012 12:50:21	97	99	99	98
QC Std 3	Monday, September 10, 2012 12:56:45	97	99	98	98
QC Std 5	Monday, September 10, 2012 13:03:10	97	98	98	98
QC Std 6	Monday, September 10, 2012 13:09:34	101	100	97	99
LLCS	Monday, September 10, 2012 13:29:53	97	99	99	98
0.5ppb	Monday, September 10, 2012 13:36:18	102	103	102	102
ICSA	Monday, September 10, 2012 13:42:43	92	95	90	91
ICSAB	Monday, September 10, 2012 13:49:09	92	97	90	92
5ppm LRC-flush	Monday, September 10, 2012 13:55:34	98	99	98	99
QC Std 1	Monday, September 10, 2012 14:08:27	101	102	102	102
QC Std 2	Monday, September 10, 2012 14:14:52	95	99	97	98
QC Std 5	Monday, September 10, 2012 14:21:17	98	98	98	98
QC Std 6	Monday, September 10, 2012 14:27:41	97	98	96	98
113653.18	Monday, September 10, 2012 14:34:07	99	101	99	99
113653.01	Monday, September 10, 2012 14:40:35	105	96	93	94
113653.02	Monday, September 10, 2012 14:47:01	101	94	91	91
113653.03	Monday, September 10, 2012 14:53:25	99	92	91	91
113653.04	Monday, September 10, 2012 14:59:50	113	104	101	99
113653.05	Monday, September 10, 2012 15:06:15	102	97	94	94
113653.06	Monday, September 10, 2012 15:12:39	101	96	94	91
113653.07	Monday, September 10, 2012 15:19:04	102	95	92	93
113653.08	Monday, September 10, 2012 15:25:29	103	94	93	93
113653.09	Monday, September 10, 2012 15:31:54	106	99	98	96
113653.1	Monday, September 10, 2012 15:38:20	109	101	100	98
QC Std 1	Monday, September 10, 2012 15:44:47	99	99	99	99
QC Std 2	Monday, September 10, 2012 15:51:12	99	100	99	97
QC Std 5	Monday, September 10, 2012 15:57:36	99	101	100	99
QC Std 6	Monday, September 10, 2012 16:04:01	101	98	97	97
113653.11	Monday, September 10, 2012 16:19:21	106	101	100	99
113653.12	Monday, September 10, 2012 16:25:47	105	99	96	95
113653.13	Monday, September 10, 2012 16:32:14	106	99	100	99
113653.14	Monday, September 10, 2012 16:38:40	103	95	93	92
113653.15	Monday, September 10, 2012 16:45:06	106	98	97	95
113653.16	Monday, September 10, 2012 16:51:31	105	97	97	96
113653.17	Monday, September 10, 2012 16:57:56	104	97	95	93
113653.18	Monday, September 10, 2012 17:04:22	103	98	96	95
113653.2	Monday, September 10, 2012 17:10:47	97	99	99	97
113689.01	Monday, September 10, 2012 17:17:12	100	98	97	96
QC Std 1	Monday, September 10, 2012 17:23:38	94	98	98	96
QC Std 2	Monday, September 10, 2012 17:30:04	92	94	96	94
QC Std 5	Monday, September 10, 2012 17:36:28	93	96	97	94
QC Std 6	Monday, September 10, 2012 17:42:52	91	95	93	93
113689.02	Monday, September 10, 2012 17:49:17	98	95	95	94
113689.03	Monday, September 10, 2012 17:55:43	102	93	90	92
113689.04	Monday, September 10, 2012 18:02:09	95	95	96	94
113689.05	Monday, September 10, 2012 18:08:36	97	95	95	94
113689.06	Monday, September 10, 2012 18:15:03	96	92	91	89
113689.07	Monday, September 10, 2012 18:21:29	101	99	97	98
113689.08	Monday, September 10, 2012 18:27:55	102	97	97	96
113689.09	Monday, September 10, 2012 18:34:20	95	91	90	90
113689.1	Monday, September 10, 2012 18:40:46	97	93	93	91
113689.11	Monday, September 10, 2012 18:47:11	96	88	88	88
QC Std 1	Monday, September 10, 2012 18:53:38	95	98	100	98
QC Std 2	Monday, September 10, 2012 19:00:03	89	93	95	92
QC Std 5	Monday, September 10, 2012 19:06:27	88	91	94	91
QC Std 6	Monday, September 10, 2012 19:12:51	90	92	91	91

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total Metals

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 12:43:56
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.000555	ug/L		<1
Ge	72		ug/L	102.3	
Ho	165		ug/L	102.59	
In	115		ug/L	103.528	
Sc	45		ug/L	103.256	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 14:08:27
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	0.007737	ug/L		<1
Ge	72		ug/L	101.9	
Ho	165		ug/L	102.363	
In	115		ug/L	102.116	
Sc	45		ug/L	101.273	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 15:44:47
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.002186	ug/L		<1
Ge	72		ug/L	99.089	
Ho	165		ug/L	99.45	
In	115		ug/L	99.119	
Sc	45		ug/L	99.041	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 17:23:38
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.00761	ug/L		<1
Ge	72		ug/L	97.508	
Ho	165		ug/L	95.754	
In	115		ug/L	97.539	
Sc	45		ug/L	93.818	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 18:53:38
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.001741	ug/L		<1
Ge	72		ug/L	97.932	
Ho	165		ug/L	97.933	
In	115		ug/L	99.917	
Sc	45		ug/L	95.367	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653& 113689
Total Metals

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 12:50:21
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	106.564547	ug/L	105.509		100
Ge	72		ug/L		99.006	
Ho	165		ug/L		97.814	
In	115		ug/L		98.506	
Sc	45		ug/L		97.357	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 14:14:52
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	117.460586	ug/L	116.298		100
Ge	72		ug/L		99.487	
Ho	165		ug/L		98.433	
In	115		ug/L		97.103	
Sc	45		ug/L		94.753	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 15:51:12
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	107.024963	ug/L	105.965		100
Ge	72		ug/L		99.649	
Ho	165		ug/L		96.564	
In	115		ug/L		99.047	
Sc	45		ug/L		98.813	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 17:30:04
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	101.057226	ug/L	100.057		100
Ge	72		ug/L		94.222	
Ho	165		ug/L		93.967	
In	115		ug/L		95.873	
Sc	45		ug/L		91.7	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 19:00:03
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	95.308552	ug/L	94.365		100
Ge	72		ug/L		92.83	
Ho	165		ug/L		91.892	
In	115		ug/L		94.561	
Sc	45		ug/L		89.064	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593
Total & Dissolved Metals

Sample ID: ICSA
Sample Date/Time: Monday, September 10, 2012 13:42:43
Sample Description:

Sample ID: ICSAB
Sample Date/Time: Monday, September 10, 2012 13:49:09
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	0.038386	ug/L			< 1
Ag	109	0.033085	ug/L			< 1
Al	27	50757.22	ug/L	101.51		50000
As	75	-0.0603	ug/L			< 1
Ba	137	0.096163	ug/L			< 1
Be	9	0.011185	ug/L			< 1
Ca	44	55023.84	ug/L	110.05		50000
Cd	111	0.09428	ug/L			< 1
Cd	114	0.098944	ug/L			< 1
Co	59	0.106306	ug/L			< 1
Cr	52	0.298007	ug/L			< 1
Cu	63	0.981433	ug/L			< 1
Cu	65	0.638749	ug/L			< 1
Fe	54	49397.85	ug/L	98.80		50000
Fe	56	50922.43	ug/L	101.84		50000
Fe	57	57443.22	ug/L	114.89		50000
Ge	72		ug/L		95.082	
Hg	200	0.04975	ug/L			< 0.1
Hg	202	0.054006	ug/L			< 0.1
Ho	165		ug/L		91.093	
In	115		ug/L		89.714	
K	39	50404.05	ug/L	100.81		50000
Mg	24	48480.03	ug/L	96.96		50000
Mg	25	49979.56	ug/L	99.96		50000
Mn	55	-0.60166	ug/L			< 5
Na	23	49437.87	ug/L	98.88		50000
Ni	60	1.235071	ug/L			1.2
Ni	62	0.554891	ug/L			< 1
P	31	52759.27	ug/L	105.52		50000
Pb	208	0.069794	ug/L			< 1
Sb	121	0.073458	ug/L			< 1
Sb	123	0.070511	ug/L			< 1
Sc	45		ug/L		91.856	
Se	82	-0.15257	mg/L			< 1
Tl	205	-0.00722	ug/L			< 1
V	51	1.735818	ug/L			< 5
Zn	64	4.370564	ug/L			< 5
Zn	66	1.221267	ug/L			< 5
Zn	68	0.775064	ug/L			< 5

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	8.976445	ug/L	89.76		10
Ag	109	8.982681	ug/L	89.83		10
Al	27	50138.36	ug/L	100.28		50000
As	75	8.905054	ug/L	89.05		10
Ba	137	9.667689	ug/L	96.68		10
Be	9	10.55717	ug/L	105.57		10
Ca	44	55291.34	ug/L	110.58		50000
Cd	111	9.550153	ug/L	95.50		10
Cd	114	9.450816	ug/L	94.51		10
Co	59	9.189783	ug/L	91.90		10
Cr	52	9.465061	ug/L	94.65		10
Cu	63	9.313969	ug/L	93.14		10
Cu	65	9.205929	ug/L	92.06		10
Fe	54	49054.91	ug/L	98.11		50000
Fe	56	51638.36	ug/L	103.28		50000
Fe	57	57932.84	ug/L	115.87		50000
Ge	72		ug/L		97.149	
Hg	200	1.051031	ug/L	105.10		1
Hg	202	1.057595	ug/L	105.76		1
Ho	165		ug/L		91.645	
In	115		ug/L		89.939	
K	39	49442.08	ug/L	98.88		50000
Mg	24	49618.52	ug/L	99.24		50000
Mg	25	48705.09	ug/L	97.41		50000
Mn	55	8.718271	ug/L	87.18		10
Na	23	49203.4	ug/L	98.41		50000
Ni	60	10.14456	ug/L	89.09		10
Ni	62	9.209267	ug/L	92.09		10
P	31	51989.61	ug/L	103.98		50000
Pb	208	9.452449	ug/L	94.52		10
Sb	121	9.847229	ug/L	98.47		10
Sb	123	9.985406	ug/L	99.85		10
Sc	45		ug/L		91.755	
Se	82	8.311811	mg/L	83.12		10
Tl	205	9.265368	ug/L	92.65		10
V	51	11.12253	ug/L	93.87		10
Zn	64	12.9249	ug/L	85.54		10
Zn	66	9.696399	ug/L	84.75		10
Zn	68	9.212625	ug/L	92.13		10

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, September 10, 2012 11:13:08
Sample Description:
Method File: C:\Elandata\Method\EPA200 DAILY.mth
Dataset File: C:\Elandata\Dataset\daily performance\Sample.035
Tuning File: C:\Elandata\Tuning\EPA.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

1.74 x 10^-5

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	28197.5	28197.481	247.357	0.9
	Rh	102.9	305439.4	305439.438	1035.401	0.3
	In	114.9	396513.5	396513.469	2951.477	0.7
	Pb	208.0	214372.9	214372.909	479.627	0.2
⌈>	Ba	137.9	358977.8	358977.778	753.299	0.2
⌊	Ba++	69.0	3391.6	0.009	0.000	1.2
⌈>	Ce	139.9	425037.9	425037.883	3027.370	0.7
⌊	CeO	155.9	11928.8	0.028	0.000	1.2
	Bkgd	220.0	5.0	5.001	3.317	66.3

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1947.00	Analog Stage Voltage
1273.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-5.50	AC Rod Offset

71361.7

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	15	6.0	3214.1
Co	59	15	7.8	143083.2
In	115	15	8.3	403643.4

71360.7

Instrument Tuning Report

File Name: EPA.tun
File Path: C:\elandata\Tuning\EPA.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.975	600	2087	0.568	
Mg	23.985	23.979	5743	2024	0.560	
Rh	102.905	102.878	25058	1900	0.634	
Ce	139.905	139.878	34044	1961	0.644	
Pb	207.977	207.975	50454	2247	0.627	

Sample ID: 113653.18
Sample Date/Time: Monday, September 10, 2012 14:34:07
Autosampler Position: 24
Sample Description: 1:10 min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.18.49479

Ca, Na

Use this dilution for Ca, Na if

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7464.397	ug/L	
Be	9	0.011870	7.333	ug/L	0.008
B	10	54.637986	4126.645	ug/L	0.940
B	11	52.336533	19127.681	ug/L	0.456
C	12		486578.868	ug/L	
Na	23	10247.266095	69130671.241	ug/L	94.361
Mg	24	2470.884183	11360645.565	ug/L	35.519
Mg	25	2153.178929	1388714.313	ug/L	78.230
Al	27	0.101495	9976.482	ug/L	0.007
Si	28		4012352.994	ug/L	
P	31	18.899119	19195.646	ug/L	2.683
S	32		95915578.285	ug/L	
Cl	35		10156720.442	ug/L	
K	39	3836.110981	44599032.853	ug/L	3.899
Ca	44	7894.087034	2682251.591	ug/L	17.096
Sc	45		216079.113	ug/L	
Ti	47	0.222757	435.348	ug/L	0.008
Ti	48	6.125912	60097.421	ug/L	0.505
V	51	0.309679	38278.845	ug/L	0.095
ClO	51		39487.997	ug/L	
Cr	52	-0.012997	11503.367	ug/L	0.043
Cr	53	0.634911	12430.289	ug/L	0.279
Fe	54	3994.123377	3521377.667	ug/L	39.166
Mn	55	383.225724	6596923.604	ug/L	11.076
Fe	56	3940.088411	62413978.624	ug/L	116.126
Fe	57	3921.219482	1282513.097	ug/L	132.258
Co	59	0.107201	1945.228	ug/L	0.004
Ni	60	0.876502	2461.691	ug/L	0.034
Ni	62	0.655596	332.009	ug/L	0.007
Cu	63	0.125896	1133.415	ug/L	0.010
Zn	64	0.515717	2826.233	ug/L	0.048
Cu	65	0.017032	177.004	ug/L	0.006
Zn	66	0.492002	1587.154	ug/L	0.051
Zn	68	0.748289	1519.142	ug/L	0.017
Ge	72		193541.569	ug/L	
As	75	0.430797	495.541	ug/L	0.065
Se	74	-32.295943	10107.705	mg/L	21.905
ArCl	77		931.724	ug/L	
Br	79		49883.303	ug/L	

Br	81		79857.323	ug/L	
Y	89		494848.569	ug/L	
Mo	95	0.048473	274.674	ug/L	0.004
Rh	103		445763.267	ug/L	
Ag	107	0.017449	1330.778	ug/L	0.019
Ag	109	0.015117	1263.435	ug/L	0.019
Cd	111	0.026842	279.007	ug/L	0.000
Cd	114	0.035866	672.699	ug/L	0.010
In	115		563912.485	ug/L	
Sb	121	0.034091	453.683	ug/L	0.002
Sb	123	0.036707	366.708	ug/L	0.001
Ba	137	8.700872	41915.177	ug/L	0.068
Ba	138	8.820570	271454.194	ug/L	0.001
Tb	159		621432.082	ug/L	
Ho	165		585731.153	ug/L	
Hg	200	0.002972	30.000	ug/L	0.001
Hg	202	0.001717	34.667	ug/L	0.001
Tl	205	0.010749	2140.273	ug/L	0.005
Pb	208	-0.002844	2752.190	ug/L	0.012
Bi	209		461625.744	ug/L	
Se	77	-0.483466	897.378	mg/L	0.503
Se	78	-1.008053	18237.614	mg/L	0.240
Se	82	0.523711	118.804	mg/L	0.078

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.347
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 101.280
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 98.701
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 98.851
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.01
Sample Date/Time: Monday, September 10, 2012 14:40:35
Autosampler Position: 25
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.01.49480

All ND

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6927.972	ug/L	
Be	9	0.004672	5.667	ug/L	0.010
B	10	116.055503	9203.749	ug/L	1.270
B	11	109.949554	42188.424	ug/L	2.937
C	12		673244.672	ug/L	
Na	23	10349.639325	73928053.551	ug/L	171.036
Mg	24	8737.507148	42541076.838	ug/L	133.540
Mg	25	8640.806201	5905753.745	ug/L	79.032
Al	27	76.810987	583821.588	ug/L	2.429
Si	28		25499781.285	ug/L	
P	31	271.216366	128663.587	ug/L	8.488
S	32		99854198.511	ug/L	
Cl	35		10710066.285	ug/L	
K	39	14343.368831	173789677.861	ug/L	63.050
Ca	44	32385.983332	11543702.839	ug/L	568.504
Sc	45		228753.366	ug/L	
Ti	47	6.456285	6731.226	ug/L	0.298
Ti	48	27.327279	292542.250	ug/L	2.041
V	51	0.406166	41916.163	ug/L	0.038
ClO	51		43109.402	ug/L	
Cr	52	0.390711	16862.024	ug/L	0.038
Cr	53	0.261401	12645.916	ug/L	0.105
Fe	54	11247.191460	10362384.642	ug/L	416.700
Mn	55	646.898010	11784984.793	ug/L	12.580
Fe	56	11568.044752	185734171.998	ug/L	648.250
Fe	57	12895.606044	4441571.072	ug/L	75.794
Co	59	1.750769	23990.523	ug/L	0.058
Ni	60	4.125996	11764.062	ug/L	0.208
Ni	62	3.431564	1537.812	ug/L	0.026
Cu	63	0.989777	6817.290	ug/L	0.026
Zn	64	5.058497	16651.421	ug/L	0.205
Cu	65	0.900869	2964.179	ug/L	0.024
Zn	66	4.872081	9364.248	ug/L	0.202
Zn	68	5.665321	7665.641	ug/L	0.240
Ge	72		183270.600	ug/L	
As	75	39.205909	71497.371	ug/L	1.606
Se	74	-25.959167	10573.465	mg/L	9.459
ArCl	77		941.725	ug/L	
Br	79		50149.581	ug/L	

Br	81		79229.903	ug/L	
Y	89		476614.778	ug/L	
Mo	95	0.528717	2425.681	ug/L	0.013
Rh	103		417872.134	ug/L	
Ag	107	-0.037061	601.693	ug/L	0.005
Ag	109	-0.044149	511.353	ug/L	0.006
Cd	111	0.082764	430.015	ug/L	0.011
Cd	114	0.094899	1037.737	ug/L	0.013
In	115		533005.880	ug/L	
Sb	121	0.081404	901.387	ug/L	0.011
Sb	123	0.085102	711.557	ug/L	0.004
Ba	137	26.059013	118455.375	ug/L	1.192
Ba	138	26.205152	761084.388	ug/L	1.167
Tb	159		582684.108	ug/L	
Ho	165		556130.709	ug/L	
Hg	200	0.003519	29.667	ug/L	0.004
Hg	202	0.003066	36.334	ug/L	0.003
Tl	205	0.019212	2240.299	ug/L	0.009
Pb	208	0.191913	9264.282	ug/L	0.022
Bi	209		443645.982	ug/L	
Se	77	-0.538197	889.377	mg/L	0.606
Se	78	-1.039906	18222.534	mg/L	1.710
Se	82	0.730934	161.379	mg/L	0.013

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.174
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

95.905

93.292

93.855

Sample ID: 113653.02
Sample Date/Time: Monday, September 10, 2012 14:47:01
Autosampler Position: 26
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.02.49481

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6300.850	ug/L	
Be	9	0.020189	10.000	ug/L	0.000
B	10	195.071337	14835.584	ug/L	7.063
B	11	191.041457	70316.608	ug/L	2.255
C	12		836252.854	ug/L	
Na	23	36857.307935	253186099.764	ug/L	901.394
Mg	24	14295.327129	66959100.227	ug/L	269.441
Mg	25	14434.719464	9490891.423	ug/L	42.921
Al	27	13.350329	105432.332	ug/L	0.656
Si	28		18269402.305	ug/L	
P	31	12.678147	16940.796	ug/L	0.034
S	32		103657141.851	ug/L	
Cl	35		11626391.332	ug/L	
K	39	11496.918749	134196406.864	ug/L	32.451
Ca	44	42694.605902	14631029.415	ug/L	51.470
Sc	45		220048.672	ug/L	
Ti	47	1.644088	1819.534	ug/L	0.091
Ti	48	24.740052	254751.827	ug/L	2.778
V	51	1.165819	50572.114	ug/L	0.026
ClO	51		52102.400	ug/L	
Cr	52	0.633834	18929.992	ug/L	0.022
Cr	53	0.909362	13042.146	ug/L	0.020
Fe	54	27002.551597	23839362.069	ug/L	514.487
Mn	55	735.468691	12888269.788	ug/L	2.738
Fe	56	27452.841720	418502200.390	ug/L	404.344
Fe	57	30203.282345	9991356.467	ug/L	341.827
Co	59	6.118756	79165.038	ug/L	0.096
Ni	60	8.785462	23956.784	ug/L	0.299
Ni	62	7.794425	3273.289	ug/L	0.143
Cu	63	0.590962	4064.949	ug/L	0.006
Zn	64	2.643291	9036.815	ug/L	0.011
Cu	65	0.187270	694.367	ug/L	0.005
Zn	66	2.486301	4984.750	ug/L	0.041
Zn	68	4.164205	5597.112	ug/L	0.110
Ge	72		179780.248	ug/L	
As	75	73.566227	131933.210	ug/L	0.157
Se	74	-37.593813	8515.987	mg/L	4.085
ArCl	77		992.731	ug/L	
Br	79		236476.334	ug/L	

Br	81		276104.834	ug/L	
Y	89		483292.476	ug/L	
Mo	95	1.758152	7820.440	ug/L	0.002
Rh	103		404192.732	ug/L	
Ag	107	-0.036750	592.692	ug/L	0.002
Ag	109	-0.039647	551.689	ug/L	0.006
Cd	111	0.068000	377.012	ug/L	0.024
Cd	114	0.067892	833.380	ug/L	0.019
In	115		520964.792	ug/L	
Sb	121	0.113038	1192.090	ug/L	0.003
Sb	123	0.116479	927.457	ug/L	0.004
Ba	137	69.362299	308260.930	ug/L	0.137
Ba	138	69.413928	1971117.382	ug/L	0.166
Tb	159		566325.738	ug/L	
Ho	165		536624.055	ug/L	
Hg	200	0.002907	27.334	ug/L	0.001
Hg	202	-0.000983	25.000	ug/L	0.001
Tl	205	0.007011	1873.212	ug/L	0.004
Pb	208	0.040465	3956.042	ug/L	0.006
Bi	209		423896.224	ug/L	
Se	77	0.319273	1014.723	mg/L	0.194
Se	78	-1.038065	18223.405	mg/L	0.172
Se	82	2.726108	571.291	mg/L	0.017

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		101.172
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 94.079
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 91.184
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 90.563
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.03
Sample Date/Time: Monday, September 10, 2012 14:53:25
Autosampler Position: 27
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.03.49482

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6571.708	ug/L	
Be	9	0.056611	20.334	ug/L	0.009
B	10	116.116337	8689.905	ug/L	0.693
B	11	114.217887	41351.580	ug/L	1.237
C	12		713649.925	ug/L	
Na	23	41146.100913	277195887.114	ug/L	2253.238
Mg	24	8660.364418	39792074.349	ug/L	58.631
Mg	25	8748.401962	5641547.939	ug/L	361.594
Al	27	3.161113	31541.123	ug/L	0.159
Si	28		17219354.666	ug/L	
P	31	205.219425	94693.737	ug/L	6.871
S	32		100764031.755	ug/L	
Cl	35		11273521.210	ug/L	
K	39	4792.115838	55421522.918	ug/L	5.546
Ca	44	12149.967886	4106864.936	ug/L	34.300
Sc	45		215855.344	ug/L	
Ti	47	1.244573	1405.456	ug/L	0.011
Ti	48	7.777918	77058.495	ug/L	0.488
V	51	0.287687	37985.913	ug/L	0.059
ClO	51		39577.710	ug/L	
Cr	52	-0.018344	11448.408	ug/L	0.001
Cr	53	0.527236	12284.754	ug/L	0.327
Fe	54	7010.961499	6123466.079	ug/L	36.975
Mn	55	216.356320	3731679.820	ug/L	3.249
Fe	56	6989.186897	107549169.399	ug/L	17.930
Fe	57	7916.371178	2577492.021	ug/L	1.745
Co	59	0.933986	12356.849	ug/L	0.012
Ni	60	3.111586	8407.303	ug/L	0.003
Ni	62	2.803102	1197.758	ug/L	0.021
Cu	63	0.607193	4086.959	ug/L	0.005
Zn	64	1.722762	6252.203	ug/L	0.034
Cu	65	0.137109	532.354	ug/L	0.001
Zn	66	1.657035	3517.049	ug/L	0.020
Zn	68	2.582597	3651.437	ug/L	0.048
Ge	72		176212.749	ug/L	
As	75	4.680553	7938.451	ug/L	0.115
Se	74	7.224516	15296.252	mg/L	6.126
ArCl	77		951.393	ug/L	
Br	79		103610.215	ug/L	

Br	81		135602.312	ug/L	
Y	89		460962.072	ug/L	
Mo	95	2.433939	10596.278	ug/L	0.007
Rh	103		404099.623	ug/L	
Ag	107	-0.040508	545.689	ug/L	0.005
Ag	109	-0.050762	424.014	ug/L	0.002
Cd	111	0.088627	434.681	ug/L	0.015
Cd	114	0.094361	1004.399	ug/L	0.020
In	115		518411.537	ug/L	
Sb	121	0.034056	417.014	ug/L	0.001
Sb	123	0.032653	307.203	ug/L	0.004
Ba	137	35.215828	155775.014	ug/L	0.521
Ba	138	35.000337	989198.822	ug/L	0.189
Tb	159		572411.151	ug/L	
Ho	165		540256.969	ug/L	
Hg	200	0.000740	23.334	ug/L	0.003
Hg	202	0.001838	32.334	ug/L	0.003
Tl	205	0.012546	2018.579	ug/L	0.010
Pb	208	0.016507	3186.584	ug/L	0.004
Bi	209		414276.317	ug/L	
Se	77	-0.209806	937.382	mg/L	0.581
Se	78	-0.278869	18582.839	mg/L	0.096
Se	82	1.158772	249.279	mg/L	0.085

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.244
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 92.212
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 90.737
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.176
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.04
Sample Date/Time: Monday, September 10, 2012 14:59:50
Autosampler Position: 28
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.04.49483

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6927.974	ug/L	
Be	9	0.006539	6.667	ug/L	0.003
B	10	12.049926	1094.744	ug/L	1.183
B	11	11.562692	5053.456	ug/L	0.507
C	12		624239.376	ug/L	
Na	23	5465.941062	41944415.495	ug/L	39.785
Mg	24	1653.211018	8643953.948	ug/L	11.117
Mg	25	1428.788307	1048716.225	ug/L	9.705
Al	27	5.294155	53012.781	ug/L	0.125
Si	28		22056885.205	ug/L	
P	31	19.316591	21972.095	ug/L	2.613
S	32		112823312.733	ug/L	
Cl	35		11266128.944	ug/L	
K	39	1227.048866	16947254.273	ug/L	7.383
Ca	44	7265.644972	2808557.260	ug/L	4.603
Sc	45		245591.828	ug/L	
Ti	47	0.925027	1253.766	ug/L	0.013
Ti	48	4.898929	54276.506	ug/L	0.135
V	51	0.076549	40041.101	ug/L	0.099
ClO	51		41193.219	ug/L	
Cr	52	-0.146055	11438.736	ug/L	0.007
Cr	53	-0.152155	12953.022	ug/L	0.303
Fe	54	9192.805053	9110468.714	ug/L	39.561
Mn	55	1875.810332	36654970.687	ug/L	11.426
Fe	56	9406.366823	163099099.524	ug/L	375.630
Fe	57	10547.550997	3902880.602	ug/L	19.630
Co	59	9.460232	136237.797	ug/L	0.148
Ni	60	13.967834	42422.202	ug/L	0.277
Ni	62	13.704183	6364.958	ug/L	0.140
Cu	63	0.358315	2912.829	ug/L	0.006
Zn	64	4.017891	14523.210	ug/L	0.030
Cu	65	0.321441	1227.762	ug/L	0.001
Zn	66	3.853175	8137.389	ug/L	0.091
Zn	68	4.097330	6158.147	ug/L	0.013
Ge	72		198201.308	ug/L	
As	75	14.099052	27594.888	ug/L	0.284
Se	74	-11.262776	13980.934	mg/L	20.097
ArCl	77		933.057	ug/L	
Br	79		14472.676	ug/L	

Br	81		43390.405	ug/L	
Y	89		509682.110	ug/L	
Mo	95	0.128063	669.365	ug/L	0.008
Rh	103		450086.047	ug/L	
Ag	107	-0.048587	500.685	ug/L	0.002
Ag	109	-0.055987	405.680	ug/L	0.001
Cd	111	0.083105	465.017	ug/L	0.018
Cd	114	0.084246	1041.070	ug/L	0.018
In	115		575803.677	ug/L	
Sb	121	0.021534	327.676	ug/L	0.001
Sb	123	0.021703	251.952	ug/L	0.002
Ba	137	9.177616	45144.598	ug/L	0.028
Ba	138	9.184870	288612.393	ug/L	0.024
Tb	159		617284.951	ug/L	
Ho	165		589312.285	ug/L	
Hg	200	-0.001501	20.667	ug/L	0.004
Hg	202	-0.002351	23.667	ug/L	0.001
Tl	205	0.009839	2130.938	ug/L	0.006
Pb	208	0.045235	4516.154	ug/L	0.008
Bi	209		491324.294	ug/L	
Se	77	0.145953	989.387	mg/L	0.129
Se	78	0.210390	18814.473	mg/L	0.954
Se	82	0.283226	69.396	mg/L	0.039

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		112.916
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 103.718
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 100.783
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 99.455
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.05
Sample Date/Time: Monday, September 10, 2012 15:06:15
Autosampler Position: 29
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.05.49484

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6350.217	ug/L	
Be	9	-0.000244	4.000	ug/L	0.003
B	10	128.710262	9858.441	ug/L	2.355
B	11	121.890855	45172.460	ug/L	5.563
C	12		704790.147	ug/L	
Na	23	19500.485468	134611018.204	ug/L	261.264
Mg	24	5348.744672	25171376.901	ug/L	127.657
Mg	25	5369.755050	3547297.891	ug/L	111.711
Al	27	2.484390	27407.449	ug/L	0.349
Si	28		20477266.413	ug/L	
P	31	181.072409	86945.792	ug/L	4.084
S	32		100983509.073	ug/L	
Cl	35		10833207.533	ug/L	
K	39	8963.621151	105318594.841	ug/L	336.469
Ca	44	15728.682185	5435441.129	ug/L	401.909
Sc	45		221108.828	ug/L	
Ti	47	1.327933	1520.476	ug/L	0.033
Ti	48	11.636916	119252.895	ug/L	0.929
V	51	0.407907	40538.590	ug/L	0.054
ClO	51		42202.157	ug/L	
Cr	52	-0.019876	11709.902	ug/L	0.001
Cr	53	0.557437	12625.554	ug/L	0.134
Fe	54	9477.572230	8451973.349	ug/L	371.320
Mn	55	440.645517	7765754.924	ug/L	6.153
Fe	56	9550.377037	148975447.188	ug/L	355.412
Fe	57	10769.672586	3586875.671	ug/L	295.790
Co	59	5.739041	74643.270	ug/L	0.037
Ni	60	5.058914	13917.451	ug/L	0.013
Ni	62	4.597635	1968.566	ug/L	0.108
Cu	63	0.523859	3662.774	ug/L	0.002
Zn	64	1.588342	6013.591	ug/L	0.027
Cu	65	0.352535	1199.758	ug/L	0.004
Zn	66	1.431081	3219.269	ug/L	0.007
Zn	68	1.916062	2945.840	ug/L	0.036
Ge	72		185105.609	ug/L	
As	75	113.470807	209691.718	ug/L	1.227
Se	74	-30.965061	9850.681	mg/L	2.894
ArCl	77		969.395	ug/L	
Br	79		71010.551	ug/L	

Br	81		100724.858	ug/L	
Y	89		472179.326	ug/L	
Mo	95	10.907703	49741.230	ug/L	0.108
Rh	103		419550.904	ug/L	
Ag	107	-0.051105	436.015	ug/L	0.002
Ag	109	-0.054285	398.013	ug/L	0.001
Cd	111	0.118663	539.688	ug/L	0.027
Cd	114	0.115459	1184.423	ug/L	0.018
In	115		536802.269	ug/L	
Sb	121	0.026342	354.010	ug/L	0.001
Sb	123	0.026143	268.662	ug/L	0.002
Ba	137	14.132126	64770.229	ug/L	0.026
Ba	138	14.250489	417249.950	ug/L	0.075
Tb	159		582020.299	ug/L	
Ho	165		554505.641	ug/L	
Hg	200	0.000780	24.000	ug/L	0.002
Hg	202	-0.000788	26.334	ug/L	0.001
Tl	205	0.007065	1936.227	ug/L	0.010
Pb	208	0.008226	2988.223	ug/L	0.006
Bi	209		450554.472	ug/L	
Se	77	0.100343	982.720	mg/L	0.013
Se	78	-0.070805	18681.345	mg/L	0.565
Se	82	0.661826	147.181	mg/L	0.072

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		101.659
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 96.865
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 93.956
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.581
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.06
Sample Date/Time: Monday, September 10, 2012 15:12:39
Autosampler Position: 30
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.06.49485

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6162.095	ug/L	
Be	9	0.003233	5.000	ug/L	0.005
B	10	123.915718	9437.991	ug/L	0.614
B	11	119.537191	44053.260	ug/L	0.416
C	12		707051.734	ug/L	
Na	23	32910.630187	225816837.608	ug/L	318.702
Mg	24	10671.928500	49927923.885	ug/L	41.594
Mg	25	10615.933492	6971041.867	ug/L	173.170
Al	27	8.567457	70959.943	ug/L	0.410
Si	28		21139215.494	ug/L	
P	31	116.798639	59895.985	ug/L	3.078
S	32		95672157.987	ug/L	
Cl	35		11285968.016	ug/L	
K	39	10789.227274	125852098.244	ug/L	225.110
Ca	44	25634.487079	8787772.942	ug/L	741.647
Sc	45		219778.336	ug/L	
Ti	47	1.493385	1671.504	ug/L	0.001
Ti	48	17.816246	182433.357	ug/L	3.243
V	51	0.450346	40870.407	ug/L	0.015
ClO	51		41850.538	ug/L	
Cr	52	0.084614	12800.466	ug/L	0.013
Cr	53	0.493275	12462.996	ug/L	0.199
Fe	54	12366.362402	10943166.055	ug/L	84.110
Mn	55	652.918145	11429814.349	ug/L	1.253
Fe	56	12729.169190	196023264.359	ug/L	187.367
Fe	57	14343.550190	4744914.952	ug/L	314.842
Co	59	1.701871	22427.521	ug/L	0.022
Ni	60	4.089455	11207.683	ug/L	0.061
Ni	62	3.445180	1483.136	ug/L	0.014
Cu	63	0.597081	4097.631	ug/L	0.022
Zn	64	2.060762	7341.926	ug/L	0.067
Cu	65	0.238759	849.048	ug/L	0.002
Zn	66	1.941682	4060.614	ug/L	0.003
Zn	68	2.940712	4140.985	ug/L	0.109
Ge	72		183171.343	ug/L	
As	75	52.032536	94959.178	ug/L	1.128
Se	74	-19.216935	11611.989	mg/L	16.049
ArCl	77		981.729	ug/L	
Br	79		134329.926	ug/L	

Br	81		166727.725	ug/L	
Y	89		474600.199	ug/L	
Mo	95	1.351361	6132.462	ug/L	0.030
Rh	103		411504.734	ug/L	
Ag	107	-0.055202	387.012	ug/L	0.002
Ag	109	-0.055922	379.678	ug/L	0.000
Cd	111	0.089442	453.349	ug/L	0.009
Cd	114	0.103891	1107.079	ug/L	0.025
In	115		537785.938	ug/L	
Sb	121	0.044465	537.688	ug/L	0.003
Sb	123	0.045931	419.875	ug/L	0.001
Ba	137	32.539728	149318.780	ug/L	0.092
Ba	138	32.543487	954160.808	ug/L	0.069
Tb	159		581999.313	ug/L	
Ho	165		539315.298	ug/L	
Hg	200	0.004044	29.667	ug/L	0.001
Hg	202	0.002266	33.334	ug/L	0.000
Tl	205	0.012315	2010.576	ug/L	0.006
Pb	208	0.081058	5322.002	ug/L	0.007
Bi	209		430766.972	ug/L	
Se	77	0.009122	969.385	mg/L	0.039
Se	78	-0.751930	18358.873	mg/L	0.599
Se	82	1.370308	292.739	mg/L	0.126

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		101.048
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 95.853
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 94.129
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.017
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.07
Sample Date/Time: Monday, September 10, 2012 15:19:04
Autosampler Position: 31
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.07.49486

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6226.132	ug/L	
Be	9	0.027920	12.333	ug/L	0.000
B	10	119.126958	9121.999	ug/L	2.931
B	11	118.323042	43821.140	ug/L	4.739
C	12		649551.419	ug/L	
Na	23	39479.219615	272163210.849	ug/L	1868.245
Mg	24	11144.513221	52410101.101	ug/L	177.203
Mg	25	11177.319175	7376628.331	ug/L	380.642
Al	27	0.944974	16276.195	ug/L	0.153
Si	28		21014862.272	ug/L	
P	31	164.801210	80146.485	ug/L	0.768
S	32		101973152.250	ug/L	
Cl	35		11797677.080	ug/L	
K	39	10599.454943	124267214.762	ug/L	309.852
Ca	44	25198.660978	8679902.420	ug/L	1036.677
Sc	45		220974.388	ug/L	
Ti	47	1.349846	1540.813	ug/L	0.019
Ti	48	17.603243	181302.052	ug/L	0.321
V	51	0.311371	39193.698	ug/L	0.093
ClO	51		40941.397	ug/L	
Cr	52	0.009214	12020.612	ug/L	0.047
Cr	53	0.640009	12727.698	ug/L	0.187
Fe	54	8553.585817	7628693.906	ug/L	296.256
Mn	55	820.323345	14426214.708	ug/L	30.413
Fe	56	8661.182647	135359036.403	ug/L	400.261
Fe	57	9763.511828	3250166.199	ug/L	289.901
Co	59	0.448414	6387.307	ug/L	0.016
Ni	60	3.660505	10094.370	ug/L	0.184
Ni	62	2.948317	1285.104	ug/L	0.170
Cu	63	0.523978	3660.107	ug/L	0.015
Zn	64	1.086689	4551.578	ug/L	0.043
Cu	65	0.094431	415.347	ug/L	0.002
Zn	66	0.988969	2468.026	ug/L	0.005
Zn	68	2.780861	3970.574	ug/L	0.194
Ge	72		182148.841	ug/L	
As	75	42.688519	77382.818	ug/L	1.789
Se	74	-20.978486	11316.398	mg/L	10.063
ArCl	77		1002.399	ug/L	
Br	79		133982.281	ug/L	

Br	81		167622.633	ug/L	
Y	89		468547.904	ug/L	
Mo	95	1.007785	4557.188	ug/L	0.031
Rh	103		412281.936	ug/L	
Ag	107	-0.055198	378.012	ug/L	0.002
Ag	109	-0.056136	368.678	ug/L	0.000
Cd	111	0.097895	469.350	ug/L	0.034
Cd	114	0.103557	1083.744	ug/L	0.036
In	115		525745.663	ug/L	
Sb	121	0.023241	315.675	ug/L	0.003
Sb	123	0.023315	241.988	ug/L	0.000
Ba	137	66.547710	298291.742	ug/L	2.934
Ba	138	66.018440	1890905.809	ug/L	2.624
Tb	159		581576.757	ug/L	
Ho	165		548479.885	ug/L	
Hg	200	0.021374	64.334	ug/L	0.001
Hg	202	0.015743	68.668	ug/L	0.003
Tl	205	0.004502	1850.207	ug/L	0.006
Pb	208	-0.006405	2456.822	ug/L	0.010
Bi	209		412614.548	ug/L	
Se	77	0.054732	976.052	mg/L	0.026
Se	78	0.736427	19063.520	mg/L	1.359
Se	82	1.354693	289.531	mg/L	0.134

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		101.598
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 95.318
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 92.021
Sb
Sb
Ba
Ba
Tb
> Ho 92.564
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.08
Sample Date/Time: Monday, September 10, 2012 15:25:29
Autosampler Position: 32
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.08.49487

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6120.727	ug/L	
Be	9	0.012911	8.000	ug/L	0.000
B	10	117.521112	9131.342	ug/L	2.990
B	11	117.338408	44109.530	ug/L	0.774
C	12		644325.425	ug/L	
Na	23	38839.694456	271826609.774	ug/L	342.586
Mg	24	10998.889009	52487339.996	ug/L	58.223
Mg	25	11080.048919	7421419.428	ug/L	54.604
Al	27	1.026894	17127.834	ug/L	0.009
Si	28		21230162.161	ug/L	
P	31	169.279175	83197.313	ug/L	0.464
S	32		107727448.468	ug/L	
Cl	35		11868187.923	ug/L	
K	39	10610.469680	126243173.389	ug/L	24.676
Ca	44	25042.254548	8756383.367	ug/L	136.596
Sc	45		224170.584	ug/L	
Ti	47	1.402626	1615.160	ug/L	0.030
Ti	48	16.757206	175008.073	ug/L	0.129
V	51	0.304306	39677.462	ug/L	0.034
ClO	51		40834.244	ug/L	
Cr	52	0.016969	12289.030	ug/L	0.008
Cr	53	0.487782	12704.665	ug/L	0.088
Fe	54	8282.314827	7500019.616	ug/L	71.467
Mn	55	808.718299	14435441.482	ug/L	0.690
Fe	56	8400.325787	133390566.901	ug/L	7.583
Fe	57	9338.837997	3154686.981	ug/L	325.200
Co	59	0.440957	6383.304	ug/L	0.017
Ni	60	3.847395	10761.474	ug/L	0.099
Ni	62	3.254728	1432.794	ug/L	0.068
Cu	63	0.540684	3820.174	ug/L	0.012
Zn	64	0.993958	4344.588	ug/L	0.054
Cu	65	0.106045	457.016	ug/L	0.007
Zn	66	0.879316	2315.318	ug/L	0.001
Zn	68	2.620596	3836.848	ug/L	0.088
Ge	72		180505.236	ug/L	
As	75	42.215396	75874.987	ug/L	0.347
Se	74	-3.346048	13959.021	mg/L	29.150
ArCl	77		967.728	ug/L	
Br	79		135793.420	ug/L	

Br	81		170621.224	ug/L	
Y	89		475340.078	ug/L	
Mo	95	1.025704	4596.208	ug/L	0.050
Rh	103		416299.840	ug/L	
Ag	107	-0.054478	392.346	ug/L	0.000
Ag	109	-0.057453	358.344	ug/L	0.003
Cd	111	0.097092	472.017	ug/L	0.005
Cd	114	0.109066	1133.082	ug/L	0.000
In	115		533130.705	ug/L	
Sb	121	0.021560	303.675	ug/L	0.000
Sb	123	0.025700	263.322	ug/L	0.001
Ba	137	65.950970	299872.155	ug/L	1.532
Ba	138	64.811811	1882915.419	ug/L	1.640
Tb	159		585249.824	ug/L	
Ho	165		548634.678	ug/L	
Hg	200	0.023798	69.001	ug/L	0.008
Hg	202	0.015167	67.001	ug/L	0.007
Tl	205	0.000352	1751.187	ug/L	0.007
Pb	208	0.001276	2721.853	ug/L	0.006
Bi	209		422445.238	ug/L	
Se	77	0.145953	989.387	mg/L	0.181
Se	78	-0.141618	18647.819	mg/L	0.060
Se	82	1.479427	315.158	mg/L	0.108

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.067
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 94.458
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 93.314
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 92.590
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.09
Sample Date/Time: Monday, September 10, 2012 15:31:54
Autosampler Position: 33
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.09.49488

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6238.140	ug/L	
Be	9	0.009999	7.333	ug/L	0.003
B	10	4.788045	451.349	ug/L	0.039
B	11	4.796454	2143.941	ug/L	0.125
C	12		549253.503	ug/L	
Na	23	4120.426604	29689981.551	ug/L	116.258
Mg	24	2998.172944	14713460.921	ug/L	75.081
Mg	25	2653.842801	1827733.179	ug/L	22.573
Al	27	62.169440	478133.428	ug/L	0.229
Si	28		20016053.867	ug/L	
P	31	9.397667	16336.394	ug/L	3.770
S	32		104618851.551	ug/L	
Cl	35		10743173.527	ug/L	
K	39	1361.309779	17535989.603	ug/L	15.141
Ca	44	3624.040737	1331526.290	ug/L	2.555
Sc	45		230484.179	ug/L	
Ti	47	4.847542	5153.512	ug/L	0.021
Ti	48	7.766569	82161.083	ug/L	0.335
V	51	0.412243	42330.475	ug/L	0.062
ClO	51		43491.614	ug/L	
Cr	52	-0.003595	12396.773	ug/L	0.007
Cr	53	0.428273	12980.728	ug/L	0.140
Fe	54	2219.269695	2122532.570	ug/L	214.576
Mn	55	217.759880	4011160.881	ug/L	4.211
Fe	56	2192.390752	39009172.914	ug/L	34.832
Fe	57	2224.774767	782501.385	ug/L	39.093
Co	59	0.318895	4923.716	ug/L	0.002
Ni	60	0.474185	1486.470	ug/L	0.007
Ni	62	0.447475	264.340	ug/L	0.024
Cu	63	0.265910	2128.604	ug/L	0.004
Zn	64	2.155418	7986.475	ug/L	0.032
Cu	65	0.252728	935.058	ug/L	0.018
Zn	66	1.993404	4350.084	ug/L	0.020
Zn	68	2.212720	3439.352	ug/L	0.003
Ge	72		188466.489	ug/L	
As	75	0.590594	781.282	ug/L	0.040
Se	74	11.373246	17061.111	mg/L	4.389
ArCl	77		901.054	ug/L	
Br	79		12936.007	ug/L	

Br	81		40961.547	ug/L	
Y	89		495318.931	ug/L	
Mo	95	0.084174	433.015	ug/L	0.002
Rh	103		443795.808	ug/L	
Ag	107	-0.053314	425.348	ug/L	0.002
Ag	109	-0.061622	325.009	ug/L	0.001
Cd	111	0.116716	555.689	ug/L	0.000
Cd	114	0.124112	1294.438	ug/L	0.001
In	115		558541.120	ug/L	
Sb	121	0.009410	190.337	ug/L	0.002
Sb	123	0.009270	145.742	ug/L	0.002
Ba	137	5.974705	28524.637	ug/L	0.112
Ba	138	6.059637	184798.099	ug/L	0.058
Tb	159		602431.860	ug/L	
Ho	165		571270.442	ug/L	
Hg	200	-0.002181	18.667	ug/L	0.000
Hg	202	-0.003949	18.667	ug/L	0.000
Tl	205	0.016461	2233.298	ug/L	0.011
Pb	208	0.067380	5155.629	ug/L	0.004
Bi	209		469174.908	ug/L	
Se	77	-0.574686	884.043	mg/L	0.555
Se	78	0.306679	18860.060	mg/L	0.642
Se	82	0.163365	44.771	mg/L	0.016

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		105.970
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 98.624
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 97.761
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 96.410
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.10
Sample Date/Time: Monday, September 10, 2012 15:38:20
Autosampler Position: 34
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.10.49489

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7184.171	ug/L	
Be	9	0.002016	5.000	ug/L	0.001
B	10	4.261738	420.681	ug/L	0.556
B	11	4.060342	1912.887	ug/L	0.194
C	12		553813.176	ug/L	
Na	23	8396.913902	62111068.243	ug/L	359.748
Mg	24	2767.033108	13951494.834	ug/L	76.211
Mg	25	2415.496807	1709861.593	ug/L	27.380
Al	27	41.175143	328781.362	ug/L	1.979
Si	28		18176850.696	ug/L	
P	31	2.892246	13881.978	ug/L	0.485
S	32		110780178.431	ug/L	
Cl	35		10724218.999	ug/L	
K	39	1920.870642	25003530.904	ug/L	1.240
Ca	44	3856.299793	1453842.867	ug/L	81.291
Sc	45		236899.346	ug/L	
Ti	47	2.470406	2819.799	ug/L	0.010
Ti	48	6.114197	65938.915	ug/L	0.034
V	51	0.366363	42827.741	ug/L	0.068
ClO	51		43892.497	ug/L	
Cr	52	0.044511	13313.817	ug/L	0.041
Cr	53	0.830974	13923.128	ug/L	0.311
Fe	54	55.222822	129429.607	ug/L	2.165
Mn	55	6.634720	144806.664	ug/L	0.192
Fe	56	33.340466	5005956.387	ug/L	11.313
Fe	57	69.386739	37450.785	ug/L	6.025
Co	59	0.063365	1528.811	ug/L	0.002
Ni	60	1.569727	4724.942	ug/L	0.038
Ni	62	1.534446	752.705	ug/L	0.061
Cu	63	0.412409	3173.919	ug/L	0.002
Zn	64	4.098306	14256.726	ug/L	0.124
Cu	65	0.351911	1283.103	ug/L	0.015
Zn	66	3.821317	7790.081	ug/L	0.123
Zn	68	3.936029	5733.531	ug/L	0.083
Ge	72		192202.726	ug/L	
As	75	0.082399	-178.893	ug/L	0.014
Se	74	8.120960	16835.183	mg/L	2.003
ArCl	77		1054.405	ug/L	
Br	79		9678.928	ug/L	

Br	81		38229.598	ug/L	
Y	89		507982.839	ug/L	
Mo	95	1.015691	4847.341	ug/L	0.031
Rh	103		441575.580	ug/L	
Ag	107	-0.050223	474.350	ug/L	0.001
Ag	109	-0.056721	392.679	ug/L	0.002
Cd	111	0.648841	2254.302	ug/L	0.016
Cd	114	0.657952	5202.874	ug/L	0.021
In	115		569949.190	ug/L	
Sb	121	0.026389	376.345	ug/L	0.000
Sb	123	0.030321	318.912	ug/L	0.001
Ba	137	3.583095	17488.981	ug/L	0.047
Ba	138	3.548609	110595.613	ug/L	0.050
Tb	159		623529.014	ug/L	
Ho	165		582752.166	ug/L	
Hg	200	0.020295	66.001	ug/L	0.004
Hg	202	0.012161	63.001	ug/L	0.003
Tl	205	0.002129	1905.887	ug/L	0.010
Pb	208	0.043970	4421.134	ug/L	0.002
Bi	209		485248.820	ug/L	
Se	77	0.428738	1030.725	mg/L	0.065
Se	78	-0.824962	18324.297	mg/L	0.135
Se	82	0.164987	45.104	mg/L	0.055

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		108.919
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 100.579
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 99.758
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 98.348
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113653.11
Sample Date/Time: Monday, September 10, 2012 16:19:21
Autosampler Position: 35
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.11.49494

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7576.490	ug/L	
Be	9	0.009957	7.333	ug/L	0.000
B	10	3.803234	374.345	ug/L	0.066
B	11	3.676240	1718.846	ug/L	0.020
C	12		550990.252	ug/L	
Na	23	6708.036896	48434607.094	ug/L	50.727
Mg	24	5190.574717	25536725.652	ug/L	1.113
Mg	25	5248.125715	3623762.291	ug/L	118.221
Al	27	3.599898	37082.518	ug/L	0.139
Si	28		19260186.005	ug/L	
P	31	7.698896	15624.988	ug/L	1.961
S	32		102108829.137	ug/L	
Cl	35		11044234.607	ug/L	
K	39	2434.436596	30637971.784	ug/L	66.651
Ca	44	9792.581497	3550509.641	ug/L	7.207
Sc	45		231115.905	ug/L	
Ti	47	0.731030	982.730	ug/L	0.009
Ti	48	8.322317	88398.250	ug/L	0.287
V	51	0.203055	39466.224	ug/L	0.095
ClO	51		40835.272	ug/L	
Cr	52	1.199916	26497.488	ug/L	0.034
Cr	53	1.650033	14746.433	ug/L	0.337
Fe	54	2751.379804	2618195.008	ug/L	81.550
Mn	55	339.955353	6266819.585	ug/L	4.230
Fe	56	2754.400578	48011110.756	ug/L	86.141
Fe	57	2781.836636	977857.969	ug/L	1.498
Co	59	0.056584	1400.122	ug/L	0.002
Ni	60	0.364443	1177.755	ug/L	0.004
Ni	62	0.119878	123.669	ug/L	0.001
Cu	63	0.237044	1944.561	ug/L	0.001
Zn	64	3.395430	11777.208	ug/L	0.040
Cu	65	0.192061	744.371	ug/L	0.006
Zn	66	3.256314	6599.794	ug/L	0.030
Zn	68	3.531893	5090.142	ug/L	0.116
Ge	72		192950.199	ug/L	
As	75	1.096716	1777.343	ug/L	0.032
Se	74	2.736912	15993.319	mg/L	6.846
ArCl	77		1068.740	ug/L	
Br	79		31902.374	ug/L	

Br	81		60662.118	ug/L	
Y	89		504755.918	ug/L	
Mo	95	0.158077	794.043	ug/L	0.006
Rh	103		447909.254	ug/L	
Ag	107	0.049993	1774.862	ug/L	0.028
Ag	109	0.042019	1618.163	ug/L	0.025
Cd	111	0.125933	597.026	ug/L	0.015
Cd	114	0.133194	1389.120	ug/L	0.007
In	115		571031.441	ug/L	
Sb	121	0.029030	405.346	ug/L	0.001
Sb	123	0.026447	288.208	ug/L	0.000
Ba	137	6.616013	32288.898	ug/L	0.163
Ba	138	6.770320	211070.013	ug/L	0.031
Tb	159		625153.373	ug/L	
Ho	165		584308.041	ug/L	
Hg	200	0.004299	32.667	ug/L	0.003
Hg	202	0.002474	36.667	ug/L	0.003
Tl	205	0.016138	2278.311	ug/L	0.011
Pb	208	0.026267	3797.686	ug/L	0.003
Bi	209		489261.615	ug/L	
Se	77	0.957823	1108.068	mg/L	0.142
Se	78	-0.073099	18680.258	mg/L	0.808
Se	82	0.537247	121.586	mg/L	0.132

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		106.260
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 100.970
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 99.947
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 98.611
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.12
Sample Date/Time: Monday, September 10, 2012 16:25:47
Autosampler Position: 36
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.12.49495

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7290.923	ug/L	
Be	9	-0.001949	3.667	ug/L	0.007
B	10	5.976958	540.021	ug/L	0.283
B	11	5.891356	2537.379	ug/L	0.353
C	12		559308.837	ug/L	
Na	23	18623.657425	132496640.578	ug/L	1460.655
Mg	24	371.772635	1804509.790	ug/L	28.415
Mg	25	373.115848	254184.315	ug/L	32.456
Al	27	9.882775	83446.277	ug/L	0.436
Si	28		12871093.424	ug/L	
P	31	69.252189	41840.357	ug/L	0.834
S	32		99511015.796	ug/L	
Cl	35		10828911.173	ug/L	
K	39	2238.175686	27897165.369	ug/L	68.142
Ca	44	3286.321007	1198279.936	ug/L	120.085
Sc	45		228383.225	ug/L	
Ti	47	0.804548	1043.070	ug/L	0.062
Ti	48	3.343936	33567.780	ug/L	0.440
V	51	0.465119	42642.917	ug/L	0.086
ClO	51		43766.920	ug/L	
Cr	52	-0.058609	11634.092	ug/L	0.040
Cr	53	0.943421	13576.942	ug/L	0.169
Fe	54	34.951038	105902.180	ug/L	13.892
Mn	55	6.787063	142217.331	ug/L	0.335
Fe	56	14.097206	4522637.210	ug/L	7.240
Fe	57	35.835214	24599.048	ug/L	1.599
Co	59	0.008346	739.371	ug/L	0.003
Ni	60	1.177653	3452.024	ug/L	0.006
Ni	62	1.054017	521.354	ug/L	0.041
Cu	63	0.416630	3085.888	ug/L	0.008
Zn	64	3.344582	11470.936	ug/L	0.153
Cu	65	0.204137	773.707	ug/L	0.001
Zn	66	3.362822	6699.868	ug/L	0.172
Zn	68	3.500366	4984.082	ug/L	0.226
Ge	72		189607.511	ug/L	
As	75	1.065926	1686.349	ug/L	0.060
Se	74	-3.553626	14632.424	mg/L	9.710
ArCl	77		1147.417	ug/L	
Br	79		17307.695	ug/L	

Br	81		46760.829	ug/L	
Y	89		487088.917	ug/L	
Mo	95	0.455122	2166.613	ug/L	0.001
Rh	103		437470.026	ug/L	
Ag	107	-0.031638	687.366	ug/L	0.006
Ag	109	-0.036720	614.694	ug/L	0.008
Cd	111	0.184034	753.372	ug/L	0.011
Cd	114	0.190544	1740.518	ug/L	0.006
In	115		549602.764	ug/L	
Sb	121	0.089407	1012.066	ug/L	0.007
Sb	123	0.089532	767.659	ug/L	0.006
Ba	137	4.745878	22286.513	ug/L	0.301
Ba	138	4.743777	142291.458	ug/L	0.257
Tb	159		596745.703	ug/L	
Ho	165		564829.628	ug/L	
Hg	200	0.043173	110.335	ug/L	0.001
Hg	202	0.034199	118.335	ug/L	0.012
Tl	205	0.011016	2057.922	ug/L	0.017
Pb	208	0.056391	4698.193	ug/L	0.016
Bi	209		461708.208	ug/L	
Se	77	0.675037	1066.729	mg/L	0.516
Se	78	0.417679	18912.612	mg/L	0.801
Se	82	0.159004	43.875	mg/L	0.044

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		105.004
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 99.221
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 96.197
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 95.323
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.13
Sample Date/Time: Monday, September 10, 2012 16:32:14
Autosampler Position: 37
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.13.49496

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		7571.153	ug/L	
Be	9	0.002540	5.000	ug/L	0.005
B	10	2.629289	279.340	ug/L	0.381
B	11	2.817830	1381.452	ug/L	0.063
C	12		548498.646	ug/L	
Na	23	3214.674713	23117273.669	ug/L	9.310
Mg	24	1384.344614	6777822.749	ug/L	15.451
Mg	25	1251.338001	859953.495	ug/L	31.966
Al	27	1.763247	23108.318	ug/L	0.034
Si	28		14258832.580	ug/L	
P	31	-4.225604	10410.355	ug/L	1.746
S	32		97068831.826	ug/L	
Cl	35		10580038.226	ug/L	
K	39	983.213922	12917443.597	ug/L	0.911
Ca	44	2408.975076	894470.600	ug/L	18.072
Sc	45		229990.655	ug/L	
Ti	47	0.583011	828.046	ug/L	0.009
Ti	48	2.625102	26113.104	ug/L	0.293
V	51	0.591300	44760.737	ug/L	0.026
ClO	51		45898.744	ug/L	
Cr	52	-0.085325	11419.482	ug/L	0.007
Cr	53	1.667099	14705.375	ug/L	0.258
Fe	54	0.240178	75085.857	ug/L	0.468
Mn	55	0.395388	26493.480	ug/L	0.024
Fe	56	-21.768124	3990964.301	ug/L	7.929
Fe	57	7.212304	14903.698	ug/L	0.024
Co	59	0.015488	841.047	ug/L	0.005
Ni	60	0.225128	777.374	ug/L	0.004
Ni	62	0.215240	164.003	ug/L	0.013
Cu	63	0.131209	1243.431	ug/L	0.002
Zn	64	3.304642	11443.563	ug/L	0.037
Cu	65	0.112630	489.685	ug/L	0.007
Zn	66	3.233811	6527.741	ug/L	0.042
Zn	68	3.339420	4827.330	ug/L	0.060
Ge	72		188857.536	ug/L	
As	75	-0.003224	-337.146	ug/L	0.052
Se	74	13.282326	17404.455	mg/L	8.805
ArCl	77		1248.432	ug/L	
Br	79		6399.655	ug/L	

Br	81		33111.188	ug/L	
Y	89		494699.645	ug/L	
Mo	95	0.155013	763.040	ug/L	0.005
Rh	103		443127.076	ug/L	
Ag	107	-0.046829	518.353	ug/L	0.004
Ag	109	-0.049298	484.351	ug/L	0.001
Cd	111	0.159226	702.035	ug/L	0.038
Cd	114	0.164979	1618.495	ug/L	0.028
In	115		570087.563	ug/L	
Sb	121	0.018132	288.007	ug/L	0.001
Sb	123	0.018194	221.078	ug/L	0.002
Ba	137	2.612577	12776.099	ug/L	0.011
Ba	138	2.616201	81665.610	ug/L	0.011
Tb	159		614754.132	ug/L	
Ho	165		584008.282	ug/L	
Hg	200	-0.001745	20.000	ug/L	0.000
Hg	202	-0.003131	21.334	ug/L	0.001
Tl	205	0.019697	2369.667	ug/L	0.007
Pb	208	0.011786	3275.931	ug/L	0.004
Bi	209		478197.336	ug/L	
Se	77	2.052496	1268.088	mg/L	0.142
Se	78	-1.171549	18160.209	mg/L	0.600
Se	82	0.020838	15.488	mg/L	0.079

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.743
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 98.829
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 99.782
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 98.560
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.14
Sample Date/Time: Monday, September 10, 2012 16:38:40
Autosampler Position: 38
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.14.49497

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6567.705	ug/L	
Be	9	0.008535	6.667	ug/L	0.004
B	10	180.946042	14015.604	ug/L	10.061
B	11	176.703382	66249.184	ug/L	8.153
C	12		662809.732	ug/L	
Na	23	50089.804444	350300411.821	ug/L	2753.322
Mg	24	12703.068964	60600934.827	ug/L	444.139
Mg	25	12760.234319	8545625.501	ug/L	385.927
Al	27	7.229886	62533.918	ug/L	0.418
Si	28		22623904.986	ug/L	
P	31	54.302485	34793.291	ug/L	0.597
S	32		104303602.313	ug/L	
Cl	35		12279690.717	ug/L	
K	39	12862.855365	152729252.157	ug/L	750.493
Ca	44	26617.139233	9300282.481	ug/L	1215.145
Sc	45		224259.620	ug/L	
Ti	47	1.485453	1695.508	ug/L	0.121
Ti	48	20.226457	211528.606	ug/L	1.424
V	51	0.399167	40965.169	ug/L	0.138
ClO	51		41759.442	ug/L	
Cr	52	0.048704	12645.203	ug/L	0.044
Cr	53	0.648376	12921.973	ug/L	0.386
Fe	54	5448.996483	4957651.014	ug/L	191.789
Mn	55	68.485452	1239143.153	ug/L	2.952
Fe	56	5472.357856	88348447.970	ug/L	195.585
Fe	57	5354.576346	1812630.557	ug/L	401.974
Co	59	0.238590	3735.472	ug/L	0.018
Ni	60	4.279509	11952.972	ug/L	0.176
Ni	62	3.605112	1579.153	ug/L	0.160
Cu	63	0.746496	5127.831	ug/L	0.052
Zn	64	3.564631	11910.057	ug/L	0.281
Cu	65	0.178635	680.699	ug/L	0.006
Zn	66	3.490032	6800.277	ug/L	0.187
Zn	68	4.968217	6668.512	ug/L	0.301
Ge	72		180954.768	ug/L	
As	75	27.003728	48471.116	ug/L	1.594
Se	74	-3.527957	14007.423	mg/L	2.590
ArCl	77		1157.419	ug/L	
Br	79		154976.256	ug/L	

Br	81		192504.798	ug/L	
Y	89		476714.529	ug/L	
Mo	95	1.451128	6494.050	ug/L	0.089
Rh	103		411777.317	ug/L	
Ag	107	-0.049259	452.016	ug/L	0.003
Ag	109	-0.053037	406.680	ug/L	0.003
Cd	111	0.140204	596.359	ug/L	0.003
Cd	114	0.148224	1390.787	ug/L	0.002
In	115		529730.146	ug/L	
Sb	121	0.036324	448.682	ug/L	0.000
Sb	123	0.036639	344.120	ug/L	0.003
Ba	137	56.409291	254794.970	ug/L	2.120
Ba	138	55.576560	1603854.917	ug/L	2.419
Tb	159		573746.615	ug/L	
Ho	165		546861.831	ug/L	
Hg	200	0.002877	27.667	ug/L	0.004
Hg	202	0.002860	35.334	ug/L	0.000
Tl	205	0.003495	1817.202	ug/L	0.013
Pb	208	0.006148	2872.206	ug/L	0.009
Bi	209		407299.020	ug/L	
Se	77	1.377449	1169.409	mg/L	0.916
Se	78	0.153254	18787.423	mg/L	0.523
Se	82	1.868023	394.996	mg/L	0.243

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.108
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	94.693
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	92.719
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	92.291
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113653.15
Sample Date/Time: Monday, September 10, 2012 16:45:06
Autosampler Position: 39
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.15.49498

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6438.279	ug/L	
Be	9	0.017732	9.667	ug/L	0.008
B	10	26.826436	2192.953	ug/L	1.215
B	11	27.347803	10774.823	ug/L	0.933
C	12		682086.370	ug/L	
Na	23	S	S	ug/L	S
Mg	24	1549.530320	7584826.572	ug/L	30.350
Mg	25	1374.217416	944055.642	ug/L	59.639
Al	27	2.752975	30520.909	ug/L	0.261
Si	28		13469379.837	ug/L	
P	31	14.801643	18610.901	ug/L	2.362
S	32		103605265.394	ug/L	
Cl	35		13644732.615	ug/L	
K	39	3032.071959	37725115.320	ug/L	35.281
Ca	44	2536.379159	939730.696	ug/L	33.040
Sc	45		229967.638	ug/L	
Ti	47	0.652377	898.387	ug/L	0.016
Ti	48	2.540556	25220.379	ug/L	0.007
V	51	0.400783	42067.549	ug/L	0.001
ClO	51		43019.688	ug/L	
Cr	52	0.261212	15443.821	ug/L	0.041
Cr	53	1.377565	14291.035	ug/L	0.042
Fe	54	93.814806	161177.003	ug/L	2.014
Mn	55	27.969218	530633.109	ug/L	0.638
Fe	56	86.247650	5694251.759	ug/L	7.234
Fe	57	106.797718	49278.112	ug/L	3.224
Co	59	0.069028	1558.816	ug/L	0.008
Ni	60	2.831012	8161.411	ug/L	0.014
Ni	62	2.817562	1281.770	ug/L	0.103
Cu	63	1.435693	9765.007	ug/L	0.066
Zn	64	2.809283	9944.321	ug/L	0.050
Cu	65	0.066447	343.677	ug/L	0.007
Zn	66	2.845994	5841.935	ug/L	0.097
Zn	68	3.368647	4864.350	ug/L	0.051
Ge	72		188012.338	ug/L	
As	75	0.958714	1472.841	ug/L	0.024
Se	74	-12.317640	13097.849	mg/L	13.923
ArCl	77		1223.428	ug/L	
Br	79		317196.613	ug/L	

Br	81		362883.134	ug/L	
Y	89		499581.030	ug/L	
Mo	95	0.087821	448.682	ug/L	0.002
Rh	103		430603.802	ug/L	
Ag	107	-0.045017	528.354	ug/L	0.002
Ag	109	-0.052837	429.681	ug/L	0.003
Cd	111	0.082491	447.349	ug/L	0.002
Cd	114	0.083244	998.732	ug/L	0.005
In	115		556078.853	ug/L	
Sb	121	0.027614	380.012	ug/L	0.001
Sb	123	0.027002	285.080	ug/L	0.002
Ba	137	16.000021	75954.740	ug/L	0.044
Ba	138	16.120040	488880.135	ug/L	0.174
Tb	159		596256.152	ug/L	
Ho	165		565397.069	ug/L	
Hg	200	0.010599	44.334	ug/L	0.006
Hg	202	0.008215	50.667	ug/L	0.002
Tl	205	-0.008411	1582.822	ug/L	0.010
Pb	208	-0.000717	2735.854	ug/L	0.004
Bi	209		453132.907	ug/L	
Se	77	1.505157	1188.078	mg/L	0.348
Se	78	-0.710120	18378.668	mg/L	0.030
Se	82	3.700020	771.383	mg/L	0.077

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.732
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 98.386
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 97.330
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 95.419
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.16
Sample Date/Time: Monday, September 10, 2012 16:51:31
Autosampler Position: 40
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.16.49499

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6372.900	ug/L	
Be	9	0.014687	8.667	ug/L	0.003
B	10	162.376031	12795.460	ug/L	0.517
B	11	160.758865	61291.549	ug/L	3.801
C	12		633278.565	ug/L	
Na	23	50521.121199	359225242.263	ug/L	549.910
Mg	24	8246.106085	39981660.727	ug/L	96.424
Mg	25	8031.071639	5465971.325	ug/L	79.307
Al	27	28.777655	223974.581	ug/L	0.130
Si	28		12834774.199	ug/L	
P	31	39.403068	28979.103	ug/L	3.603
S	32		105221416.551	ug/L	
Cl	35		12035303.675	ug/L	
K	39	4569.888612	55812598.063	ug/L	103.356
Ca	44	20494.270952	7287052.335	ug/L	182.346
Sc	45		227786.625	ug/L	
Ti	47	2.222240	2462.691	ug/L	0.009
Ti	48	15.509149	164364.103	ug/L	1.000
V	51	0.511991	43217.248	ug/L	0.053
ClO	51		44484.015	ug/L	
Cr	52	0.086675	13290.357	ug/L	0.014
Cr	53	0.610695	13080.869	ug/L	0.235
Fe	54	2572.424448	2417431.868	ug/L	109.712
Mn	55	1974.829005	35785828.413	ug/L	58.295
Fe	56	2534.662287	43889409.600	ug/L	79.915
Fe	57	2581.845448	895197.735	ug/L	92.969
Co	59	2.472424	33482.885	ug/L	0.054
Ni	60	3.658747	10405.725	ug/L	0.137
Ni	62	3.145030	1409.457	ug/L	0.001
Cu	63	0.829606	5752.210	ug/L	0.021
Zn	64	2.739704	9642.151	ug/L	0.067
Cu	65	0.243557	894.720	ug/L	0.015
Zn	66	2.670761	5481.374	ug/L	0.086
Zn	68	3.170245	4574.196	ug/L	0.014
Ge	72		184939.861	ug/L	
As	75	17.828722	32639.650	ug/L	0.360
Se	74	13.004398	17003.058	mg/L	4.633
ArCl	77		1092.743	ug/L	
Br	79		144179.423	ug/L	

Br	81		178286.908	ug/L	
Y	89		490170.887	ug/L	
Mo	95	10.410970	47426.529	ug/L	0.158
Rh	103		429133.939	ug/L	
Ag	107	-0.051612	443.682	ug/L	0.001
Ag	109	-0.057324	374.345	ug/L	0.001
Cd	111	0.126758	582.025	ug/L	0.016
Cd	114	0.116177	1227.429	ug/L	0.020
In	115		554056.858	ug/L	
Sb	121	0.030549	409.013	ug/L	0.005
Sb	123	0.032753	329.125	ug/L	0.001
Ba	137	20.477491	96832.301	ug/L	0.347
Ba	138	20.734334	626420.078	ug/L	0.282
Tb	159		597061.955	ug/L	
Ho	165		571184.477	ug/L	
Hg	200	-0.001040	21.000	ug/L	0.000
Hg	202	-0.003327	20.334	ug/L	0.000
Tl	205	-0.000803	1793.862	ug/L	0.007
Pb	208	0.051240	4588.166	ug/L	0.006
Bi	209		439283.583	ug/L	
Se	77	0.401372	1026.725	mg/L	0.052
Se	78	0.215261	18816.779	mg/L	0.897
Se	82	1.535351	326.648	mg/L	0.017

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		104.730
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 96.779
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 96.976
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 96.396
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113653.17
Sample Date/Time: Monday, September 10, 2012 16:57:56
Autosampler Position: 41
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.17.49500

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6492.985	ug/L	
Be	9	0.014972	8.667	ug/L	0.006
B	10	144.088525	11248.402	ug/L	2.311
B	11	141.221106	53343.592	ug/L	1.236
C	12		621278.444	ug/L	
Na	23	50120.174778	352803678.068	ug/L	40.916
Mg	24	6679.554422	32063960.849	ug/L	191.798
Mg	25	6780.136154	4568467.624	ug/L	85.441
Al	27	17.516046	138731.009	ug/L	0.092
Si	28		16512823.886	ug/L	
P	31	109.014200	58168.296	ug/L	7.611
S	32		103218187.215	ug/L	
Cl	35		11868377.468	ug/L	
K	39	4464.376204	54001302.655	ug/L	92.436
Ca	44	14747.839358	5200455.288	ug/L	58.295
Sc	45		225490.291	ug/L	
Ti	47	1.060668	1285.770	ug/L	0.023
Ti	48	9.851638	102538.966	ug/L	0.355
V	51	0.251631	39185.666	ug/L	0.037
ClO	51		40054.114	ug/L	
Cr	52	-0.060073	11482.968	ug/L	0.017
Cr	53	0.254574	12456.987	ug/L	0.110
Fe	54	4101.990393	3773352.036	ug/L	79.106
Mn	55	241.568286	4350633.734	ug/L	0.815
Fe	56	4167.127323	68700981.690	ug/L	52.180
Fe	57	4173.306011	1425270.397	ug/L	107.321
Co	59	0.057414	1376.785	ug/L	0.002
Ni	60	2.831513	8004.269	ug/L	0.006
Ni	62	2.373147	1070.074	ug/L	0.049
Cu	63	0.671639	4682.253	ug/L	0.023
Zn	64	2.627045	9212.062	ug/L	0.005
Cu	65	0.090156	410.680	ug/L	0.003
Zn	66	2.559782	5235.226	ug/L	0.057
Zn	68	3.528511	4963.071	ug/L	0.042
Ge	72		185436.516	ug/L	
As	75	2.176343	3710.668	ug/L	0.023
Se	74	-19.660651	11667.053	mg/L	27.846
ArCl	77		1041.737	ug/L	
Br	79		131980.284	ug/L	

Br	81		165155.869	ug/L	
Y	89		489269.248	ug/L	
Mo	95	1.489987	6841.642	ug/L	0.019
Rh	103		426335.888	ug/L	
Ag	107	-0.017601	851.715	ug/L	0.003
Ag	109	-0.057310	366.344	ug/L	0.001
Cd	111	0.097964	482.684	ug/L	0.007
Cd	114	0.112837	1178.088	ug/L	0.007
In	115		541990.142	ug/L	
Sb	121	0.024365	337.343	ug/L	0.004
Sb	123	0.023887	253.910	ug/L	0.001
Ba	137	39.859025	184320.648	ug/L	0.081
Ba	138	39.888007	1178544.349	ug/L	0.236
Tb	159		587514.256	ug/L	
Ho	165		553993.618	ug/L	
Hg	200	0.004975	32.334	ug/L	0.000
Hg	202	0.001021	31.000	ug/L	0.000
Tl	205	-0.004829	1636.165	ug/L	0.012
Pb	208	-0.009079	2391.482	ug/L	0.009
Bi	209		425972.040	ug/L	
Se	77	0.602058	1056.061	mg/L	0.077
Se	78	0.851428	19117.966	mg/L	0.276
Se	82	1.542504	328.117	mg/L	0.004

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		103.674
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 97.039
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 94.864
Sb
Sb
Ba
Ba
Tb
> Ho 93.495
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.18
Sample Date/Time: Monday, September 10, 2012 17:04:22
Autosampler Position: 42
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.18.49501

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6067.365	ug/L	
Be	9	0.028429	12.667	ug/L	0.004
B	10	222.867499	17273.234	ug/L	5.600
B	11	221.653592	83150.710	ug/L	2.370
C	12		740233.549	ug/L	
Na	23	48239.692259	337859243.938	ug/L	1589.577
Mg	24	11692.620231	55836699.351	ug/L	501.984
Mg	25	11798.513268	7909412.540	ug/L	401.602
Al	27	4.147301	40008.593	ug/L	0.341
Si	28		19944247.609	ug/L	
P	31	111.120764	58765.180	ug/L	2.155
S	32		104718613.968	ug/L	
Cl	35		11863259.746	ug/L	
K	39	17966.193591	213226518.800	ug/L	924.845
Ca	44	35899.412045	12547484.131	ug/L	1492.786
Sc	45		224419.307	ug/L	
Ti	47	1.378002	1592.489	ug/L	0.047
Ti	48	25.337822	266380.172	ug/L	2.961
V	51	0.523975	42740.328	ug/L	0.059
ClO	51		44082.394	ug/L	
Cr	52	0.175967	14104.473	ug/L	0.041
Cr	53	0.661124	12955.022	ug/L	0.321
Fe	54	17998.566020	16221466.631	ug/L	1078.254
Mn	55	1758.670306	31395062.827	ug/L	63.888
Fe	56	17809.214647	278256892.174	ug/L	885.654
Fe	57	20021.056126	6758170.971	ug/L	202.133
Co	59	0.500726	7171.901	ug/L	0.026
Ni	60	4.090526	11446.984	ug/L	0.045
Ni	62	3.275582	1443.129	ug/L	0.065
Cu	63	0.676555	4689.923	ug/L	0.032
Zn	64	1.898962	7017.210	ug/L	0.130
Cu	65	0.104131	451.682	ug/L	0.005
Zn	66	1.759467	3832.179	ug/L	0.037
Zn	68	3.035670	4342.414	ug/L	0.133
Ge	72		187237.137	ug/L	
As	75	2.214561	3814.035	ug/L	0.158
Se	74	-25.339238	10858.707	mg/L	14.302
ArCl	77		1020.067	ug/L	
Br	79		238858.045	ug/L	

Br	81		278088.845	ug/L	
Y	89		482308.185	ug/L	
Mo	95	0.126862	626.361	ug/L	0.007
Rh	103		432123.494	ug/L	
Ag	107	-0.055279	394.012	ug/L	0.001
Ag	109	-0.058934	351.677	ug/L	0.000
Cd	111	0.076096	422.014	ug/L	0.006
Cd	114	0.084002	991.064	ug/L	0.002
In	115		548918.499	ug/L	
Sb	121	0.044059	544.688	ug/L	0.001
Sb	123	0.039845	381.249	ug/L	0.001
Ba	137	43.865894	205436.329	ug/L	0.033
Ba	138	43.699397	1307631.435	ug/L	0.198
Tb	159		592440.517	ug/L	
Ho	165		560809.737	ug/L	
Hg	200	-0.003181	16.334	ug/L	0.002
Hg	202	-0.000544	27.334	ug/L	0.003
Tl	205	-0.008070	1581.488	ug/L	0.009
Pb	208	-0.018732	2094.115	ug/L	0.003
Bi	209		440888.921	ug/L	
Se	77	0.036488	973.385	mg/L	0.206
Se	78	-0.623838	18419.517	mg/L	0.367
Se	82	2.584591	542.216	mg/L	0.014

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		103.182
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 97.981
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 96.077
Sb
Sb
Ba
Ba
Tb
> Ho 94.645
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113653.20
Sample Date/Time: Monday, September 10, 2012 17:10:47
Autosampler Position: 43
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113653.20.49502

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6102.050	ug/L	
Be	9	-0.001897	3.333	ug/L	0.003
B	10	4.131936	365.011	ug/L	0.536
B	11	4.529637	1865.877	ug/L	0.279
C	12		542544.940	ug/L	
Na	23	164.615692	1118772.518	ug/L	1.549
Mg	24	6.022821	28116.221	ug/L	0.011
Mg	25	5.899031	3914.567	ug/L	0.113
Al	27	4.748030	41699.662	ug/L	0.202
Si	28		712331.351	ug/L	
P	31	-4.092304	9576.004	ug/L	1.363
S	32		103365835.593	ug/L	
Cl	35		10423979.282	ug/L	
K	39	29.650200	1252431.388	ug/L	0.141
Ca	44	60.167652	50330.632	ug/L	2.724
Sc	45		210572.234	ug/L	
Ti	47	0.005593	223.338	ug/L	0.001
Ti	48	0.137496	-793.425	ug/L	0.004
V	51	0.337569	37696.421	ug/L	0.130
ClO	51		39004.931	ug/L	
Cr	52	-0.027494	11069.744	ug/L	0.021
Cr	53	0.764691	12290.434	ug/L	0.514
Fe	54	4.738553	72555.947	ug/L	4.896
Mn	55	-0.802214	4206.683	ug/L	0.012
Fe	56	1.363912	3989073.779	ug/L	0.056
Fe	57	0.707828	11588.540	ug/L	0.102
Co	59	0.008870	689.366	ug/L	0.002
Ni	60	0.043304	240.006	ug/L	0.015
Ni	62	0.028288	76.668	ug/L	0.015
Cu	63	0.103096	970.061	ug/L	0.001
Zn	64	1.994583	6851.181	ug/L	0.069
Cu	65	0.106602	431.015	ug/L	0.005
Zn	66	2.050430	4065.950	ug/L	0.025
Zn	68	1.976296	2873.816	ug/L	0.051
Ge	72		189830.845	ug/L	
As	75	0.007417	-319.137	ug/L	0.064
Se	74	4.939764	16091.958	mg/L	14.882
ArCl	77		788.042	ug/L	
Br	79		8003.937	ug/L	

Br	81		35497.867	ug/L	
Y	89		493580.611	ug/L	
Mo	95	0.025955	164.003	ug/L	0.001
Rh	103		457441.607	ug/L	
Ag	107	-0.057503	377.678	ug/L	0.001
Ag	109	-0.061099	336.010	ug/L	0.001
Cd	111	0.214021	869.384	ug/L	0.007
Cd	114	0.223422	2028.580	ug/L	0.011
In	115		565893.336	ug/L	
Sb	121	0.008834	187.004	ug/L	0.002
Sb	123	0.007353	132.536	ug/L	0.001
Ba	137	0.071701	418.681	ug/L	0.003
Ba	138	0.074350	2673.826	ug/L	0.002
Tb	159		608462.122	ug/L	
Ho	165		574661.416	ug/L	
Hg	200	-0.003691	15.667	ug/L	0.000
Hg	202	-0.002878	21.667	ug/L	0.000
Tl	205	0.004529	1942.895	ug/L	0.009
Pb	208	0.045803	4425.469	ug/L	0.006
Bi	209		457641.263	ug/L	
Se	77	-1.459511	754.698	mg/L	0.155
Se	78	1.235615	19299.855	mg/L	1.028
Se	82	0.189578	50.156	mg/L	0.173

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.815
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	99.338
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	99.048
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	96.983
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Eastern Analytical Inc.
Aqueous Digestion Logbook

Page:_____

591 68

BatSamNum	Prep Date	Digestion Batch ID	Reagent/Chem Inv.			Temp. °C	Analyst	Notes
BLANK	8/31/12	A	44354.6	41628.2	43174.1	83.4	JS	
LCS			71356.1	43821.4	43816.1			
LCS Ag				43818.1				
113653.01								
.02								
.03								
.04								
.05								
.06								
.07								
113653.07 MS			71356.1	43821.4	43816.1			
113653.07 MSD			"	"	"			
113653.08								
.09								
.1								
.11								
.12								
.13								
.14								
.15								
.16								
.17								
.18								
.2								

+2.3°C

8/31/12 JS

Metals_AQ_DigestionLogbook_05172006.xls

Eastern Analytical, Inc.
Professional laboratory & drilling services

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook , NH 03229

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	113689
Client Identification:	Coakley Landfill | P2081
Date Received:	9/4/2012

Dear Mr. McKibben :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw

Lorraine Olashaw, Lab Director	9.18.12	423
	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Temperature upon receipt (°C): 1 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
113689.01	GW-AE-1A-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.02	GW-AE-1B-0812	9/4/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113689.03	GW-AE-2B-0812	9/4/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113689.04	GW-FPC-7A-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.05	GW-FPC-7B-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.06	GW-FPC-8A-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.07	GW-FPC-8B-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.08	GW-FPC-9A-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.09	GW-FPC-11A-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.1	GW-FPC-11B-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.11	GW-GZ-105-0812	9/4/12	8/31/12	aqueous		Adheres to Sample Acceptance Policy
113689.12	DW-R-3-0812	9/4/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113689.13	DW-346BHR-0812	9/4/12	8/30/12	aqueous		Adheres to Sample Acceptance Policy
113689.14	Trip Blank - 524	9/4/12	8/8/12	aqueous		Adheres to Sample Acceptance Policy
113689.15	Trip Blank - 1,4 Diox.	9/4/12	8/9/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
All results contained in this report relate only to the above listed samples.
References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-2B-0812	GW-FPC-8A -0812	GW-FPC-8B -0812	GW-GZ-105 -0812
Lab Sample ID:	113689.03	113689.06	113689.07	113689.11
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/31/12	8/31/12	8/31/12
Date Received:	9/4/12	9/4/12	9/4/12	9/4/12
Units:	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/5/12	9/5/12	9/5/12	9/5/12
Analyst:	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	**9**
Trichlorofluoromethane	< 5	< 5	< 5	< 5
Diethyl Ether	**22**	< 5	< 5	**47**
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	**30**	< 10	< 10	**50**
Chloroform	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 2
Benzene	**2**	< 1	< 1	**6**
1,2-Dichloroethane	< 2	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	**60**	< 50	< 50	**70**
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2	< 2
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2	< 2	< 2
Chlorobenzene	< 2	< 2	< 2	**9**
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-2B-0812	GW-FPC-8A -0812	GW-FPC-8B -0812	GW-GZ-105 -0812
Lab Sample ID:	113689.03	113689.06	113689.07	113689.11
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/31/12	8/31/12	8/31/12
Date Received:	9/4/12	9/4/12	9/4/12	9/4/12
Units:	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/5/12	9/5/12	9/5/12	9/5/12
Analyst:	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	**2**
Bromobenzene	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	**4**
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	**95 %R**	**93 %R**	**94 %R**	**97 %R**
1,2-Dichlorobenzene-d4 (surr)	**104 %R**	**104 %R**	**103 %R**	**104 %R**
Toluene-d8 (surr)	**99 %R**	**99 %R**	**100 %R**	**99 %R**

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	14 (69 %R)	14 (70 %R) (1 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Chloromethane	< 2	16 (78 %R)	16 (78 %R) (0 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Vinyl chloride	< 2	17 (84 %R)	17 (83 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromomethane	< 2	16 (79 %R)	17 (85 %R) (7 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Chloroethane	< 5	19 (96 %R)	20 (98 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Trichlorofluoromethane	< 5	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Diethyl Ether	< 5	17 (87 %R)	18 (88 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Acetone	< 10	20 (94 %R)	20 (92 %R) (2 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
1,1-Dichloroethene	< 1	17 (86 %R)	18 (88 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-Butyl Alcohol (TBA)	< 30	80 (75 %R)	80 (79 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Methylene chloride	< 5	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Carbon disulfide	< 5	17 (85 %R)	18 (88 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Methyl-t-butyl ether(MTBE)	< 5	16 (82 %R)	16 (82 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Ethyl-t-butyl ether(ETBE)	< 5	17 (85 %R)	17 (86 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Isopropyl ether(DIPE)	< 5	17 (86 %R)	17 (87 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-amyl methyl ether(TAME)	< 5	17 (85 %R)	17 (85 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
trans-1,2-Dichloroethene	< 2	19 (93 %R)	19 (96 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1-Dichloroethane	< 2	19 (93 %R)	19 (95 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2,2-Dichloropropane	< 2	15 (73 %R)	15 (75 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
cis-1,2-Dichloroethene	< 2	20 (101 %R)	20 (101 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Butanone(MEK)	< 10	20 (85 %R)	20 (85 %R) (0 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Bromochloromethane	< 2	19 (95 %R)	19 (95 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Tetrahydrofuran(THF)	< 10	20 (86 %R)	20 (86 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Chloroform	< 2	19 (94 %R)	19 (96 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,1-Trichloroethane	< 2	17 (86 %R)	18 (89 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Carbon tetrachloride	< 2	17 (84 %R)	18 (88 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1-Dichloropropene	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Benzene	< 1	20 (100 %R)	20 (101 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichloroethane	< 2	18 (88 %R)	18 (88 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Trichloroethene	< 2	18 (91 %R)	19 (95 %R) (4 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichloropropane	< 2	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Dibromomethane	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromodichloromethane	< 0.5	18 (92 %R)	19 (93 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,4-Dioxane	< 50	< 50 (122 %R)	< 50 (126 %R) (3 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
4-Methyl-2-pentanone(MIBK)	< 10	20 (90 %R)	20 (91 %R) (1 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
cis-1,3-Dichloropropene	< 2	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Toluene	< 1	19 (95 %R)	19 (97 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
trans-1,3-Dichloropropene	< 2	17 (84 %R)	17 (86 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,2-Trichloroethane	< 2	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Hexanone	< 10	20 (85 %R)	20 (88 %R) (3 RPD)	9/5/2012	ug/l	40 - 160	20	8260B
Tetrachloroethene	< 2	21 (105 %R)	22 (110 %R) (5 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3-Dichloropropane	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Dibromochloromethane	< 2	17 (85 %R)	17 (86 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dibromoethane(EDB)	< 2	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Chlorobenzene	< 2	19 (96 %R)	19 (97 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,1,2-Tetrachloroethane	< 2	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
mp-Xylene	< 1	40 (101 %R)	40 (101 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
o-Xylene	< 1	19 (97 %R)	19 (97 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Styrene	< 1	20 (102 %R)	20 (102 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromoform	< 2	18 (90 %R)	18 (91 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
IsoPropylbenzene	< 1	21 (106 %R)	21 (107 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Bromobenzene	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,1,2,2-Tetrachloroethane	< 2	19 (95 %R)	19 (94 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichloropropane	< 2	18 (88 %R)	18 (88 %R) (0 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
n-Propylbenzene	< 1	19 (95 %R)	19 (97 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
2-Chlorotoluene	< 2	18 (89 %R)	18 (91 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
4-Chlorotoluene	< 2	18 (91 %R)	18 (92 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3,5-Trimethylbenzene	< 1	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
tert-Butylbenzene	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,4-Trimethylbenzene	< 1	18 (90 %R)	18 (91 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
sec-Butylbenzene	< 1	19 (94 %R)	19 (96 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3-Dichlorobenzene	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
p-Isopropyltoluene	< 1	19 (97 %R)	20 (99 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,4-Dichlorobenzene	< 1	19 (96 %R)	19 (97 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dichlorobenzene	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
n-Butylbenzene	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2-Dibromo-3-chloropropane	< 2	20 (98 %R)	20 (99 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,3,5-Trichlorobenzene	< 1	18 (90 %R)	18 (92 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,4-Trichlorobenzene	< 1	19 (93 %R)	19 (96 %R) (3 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Hexachlorobutadiene	< 0.5	17 (84 %R)	17 (86 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
Naphthalene	< 5	18 (89 %R)	18 (90 %R) (1 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
1,2,3-Trichlorobenzene	< 1	18 (91 %R)	19 (93 %R) (2 RPD)	9/5/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	95 %R	102 %R	100 %R	9/5/2012	% Rec	70 - 130	20	8260B
1,2-Dichlorobenzene-d4 (surr)	102 %R	99 %R	99 %R	9/5/2012	% Rec	70 - 130	20	8260B
Toluene-d8 (surr)	99 %R	99 %R	100 %R	9/5/2012	% Rec	70 - 130	20	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	DW-R-3-0812	DW-346BHR -0812	Trip Blank - 524
Lab Sample ID:	113689.12	113689.13	113689.14
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/30/12	8/8/12
Date Received:	9/4/12	9/4/12	9/4/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	9/6/12	9/6/12	9/6/12
Analyst:	BAM	BAM	BAM
Method:	524.2	524.2	524.2
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 0.5	< 0.5	< 0.5
Chloromethane	< 0.5	< 0.5	< 0.5
Vinyl chloride	< 0.5	< 0.5	< 0.5
Bromomethane	< 0.5	< 0.5	< 0.5
Chloroethane	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	< 0.5	< 0.5	< 0.5
Diethyl Ether	< 5	< 5	< 5
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 0.5	< 0.5	< 0.5
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 0.5	< 0.5	< 0.5
Ethyl-t-butyl ether(ETBE)	< 0.5	< 0.5	< 0.5
Isopropyl ether(DIPE)	< 0.5	< 0.5	< 0.5
tert-amyl methyl ether(TAME)	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5
Vinyl acetate	< 10	< 10	< 10
1,1-Dichloroethane	< 0.5	< 0.5	< 0.5
2,2-Dichloropropane	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5
2-Butanone(MEK)	< 5	< 5	< 5
Bromochloromethane	< 0.5	< 0.5	< 0.5
Tetrahydrofuran(THF)	< 5	< 5	< 5
Chloroform	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	< 0.5	< 0.5	< 0.5
Benzene	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	< 0.5	< 0.5	< 0.5
Trichloroethene	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	< 0.5	< 0.5	< 0.5
Dibromomethane	< 0.5	< 0.5	< 0.5
Bromodichloromethane	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone(MIBK)	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 0.3	< 0.3	< 0.3
Toluene	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	< 0.5	< 0.5	< 0.5
2-Hexanone	< 5	< 5	< 5
Tetrachloroethene	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.5	< 0.5	< 0.5
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	< 0.5	< 0.5	< 0.5
Ethylbenzene	< 0.5	< 0.5	< 0.5

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	DW-R-3-0812	DW-346BHR -0812	Trip Blank - 524
Lab Sample ID:	113689.12	113689.13	113689.14
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/30/12	8/8/12
Date Received:	9/4/12	9/4/12	9/4/12
Units:	ug/l	ug/l	ug/l
Date of Analysis:	9/6/12	9/6/12	9/6/12
Analyst:	BAM	BAM	BAM
Method:	524.2	524.2	524.2
Dilution Factor:	1	1	1
mp-Xylene	< 0.5	< 0.5	< 0.5
o-Xylene	< 0.5	< 0.5	< 0.5
Styrene	< 0.5	< 0.5	< 0.5
Bromoform	< 0.5	< 0.5	< 0.5
IsoPropylbenzene	< 0.5	< 0.5	< 0.5
Bromobenzene	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	< 0.5	< 0.5	< 0.5
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	< 0.5	< 0.5	< 0.5
tert-Butylbenzene	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	< 0.5	< 0.5	< 0.5
n-Butylbenzene	< 0.5	< 0.5	< 0.5
1,2-Dibromo-3-chloropropane	< 0.5	< 0.5	< 0.5
1,3,5-Trichlorobenzene	< 0.5	< 0.5	< 0.5
1,2,4-Trichlorobenzene	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 0.5	< 0.5	< 0.5
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**83 %R**	**93 %R**	**100 %R**
1,2-Dichlorobenzene-d4 (surr)	**106 %R**	**108 %R**	**106 %R**

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.5	* 6.6 (66 %R)	* 6.3 (63 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Chloromethane	< 0.5	7.5 (75 %R)	* 6.9 (69 %R) (8 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Vinyl chloride	< 0.5	8.1 (81 %R)	7.7 (77 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Bromomethane	< 0.5	7.4 (74 %R)	7.4 (74 %R) (0 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Chloroethane	< 0.5	9.2 (92 %R)	8.6 (86 %R) (7 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Trichlorofluoromethane	< 0.5	9.0 (90 %R)	8.5 (85 %R) (6 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Diethyl Ether	< 5	8 (85 %R)	8 (82 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Acetone	< 10	< 10 (93 %R)	< 10 (91 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1-Dichloroethene	< 0.5	8.5 (85 %R)	8.1 (81 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
tert-Butyl Alcohol (TBA)	< 30	40 (76 %R)	40 (78 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Methylene chloride	< 0.5	9.2 (92 %R)	8.7 (87 %R) (6 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Carbon disulfide	< 2	8 (78 %R)	8 (77 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Methyl-t-butyl ether(MTBE)	< 0.5	7.9 (79 %R)	7.7 (77 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Ethyl-t-butyl ether(ETBE)	< 0.5	8.1 (81 %R)	7.9 (79 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Isopropyl ether(DIPE)	< 0.5	8.2 (82 %R)	7.9 (79 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
tert-amyl methyl ether(TAME)	< 0.5	8.0 (80 %R)	7.9 (79 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
trans-1,2-Dichloroethene	< 0.5	9.5 (95 %R)	9.0 (90 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Vinyl acetate	< 10	* < 10 (59 %R)	* < 10 (58 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1-Dichloroethane	< 0.5	9.3 (93 %R)	8.8 (88 %R) (6 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
2,2-Dichloropropane	< 0.5	* 6.0 (60 %R)	* 5.8 (58 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
cis-1,2-Dichloroethene	< 0.5	9.9 (99 %R)	9.2 (92 %R) (7 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
2-Butanone(MEK)	< 5	7 (73 %R)	7 (74 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Bromochloromethane	< 0.5	9.7 (97 %R)	9.3 (93 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Tetrahydrofuran(THF)	< 5	8 (78 %R)	8 (78 %R) (0 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Chloroform	< 0.5	9.7 (97 %R)	9.2 (92 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1,1-Trichloroethane	< 0.5	8.5 (85 %R)	8.2 (82 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Carbon tetrachloride	< 0.5	8.4 (84 %R)	8.0 (80 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1-Dichloropropene	< 0.5	9.1 (91 %R)	8.5 (85 %R) (7 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Benzene	< 0.5	10 (100 %R)	9.5 (95 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2-Dichloroethane	< 0.5	8.6 (86 %R)	8.3 (83 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Trichloroethene	< 0.5	9.4 (94 %R)	8.8 (88 %R) (7 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2-Dichloropropane	< 0.5	9.4 (94 %R)	8.9 (89 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Dibromomethane	< 0.5	9.7 (97 %R)	9.4 (94 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Bromodichloromethane	< 0.5	9.1 (91 %R)	8.7 (87 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
4-Methyl-2-pentanone(MIBK)	< 5	8 (80 %R)	8 (80 %R) (0 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
cis-1,3-Dichloropropene	< 0.3	8.5 (85 %R)	8.3 (83 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Toluene	< 0.5	9.9 (99 %R)	9.4 (94 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
trans-1,3-Dichloropropene	< 0.3	8.2 (82 %R)	8.0 (80 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1,2-Trichloroethane	< 0.5	10 (101 %R)	9.8 (98 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
2-Hexanone	< 5	8 (78 %R)	8 (81 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Tetrachloroethene	< 0.5	12 (118 %R)	11 (109 %R) (8 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,3-Dichloropropane	< 0.5	10 (100 %R)	9.6 (96 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Dibromochloromethane	< 0.5	9.6 (96 %R)	9.2 (92 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2-Dibromoethane(EDB)	< 0.5	9.6 (96 %R)	9.4 (94 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Chlorobenzene	< 0.5	9.9 (99 %R)	9.6 (96 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1,1,2-Tetrachloroethane	< 0.5	9.5 (95 %R)	9.2 (92 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 0.5	10 (100 %R)	9.5 (95 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
mp-Xylene	< 0.5	20 (101 %R)	19 (95 %R) (6 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
o-Xylene	< 0.5	9.9 (99 %R)	9.5 (95 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Styrene	< 0.5	10 (105 %R)	10 (101 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Bromoform	< 0.5	9.3 (93 %R)	9.2 (92 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
IsoPropylbenzene	< 0.5	11 (108 %R)	10 (103 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Bromobenzene	< 0.5	10 (103 %R)	9.7 (97 %R) (6 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,1,2,2-Tetrachloroethane	< 0.5	10 (101 %R)	10 (102 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2,3-Trichloropropane	< 0.5	9.7 (97 %R)	9.3 (93 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
n-Propylbenzene	< 0.5	10 (102 %R)	9.7 (97 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
2-Chlorotoluene	< 0.5	9.7 (97 %R)	9.3 (93 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
4-Chlorotoluene	< 0.5	9.8 (98 %R)	9.3 (93 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,3,5-Trimethylbenzene	< 0.5	9.5 (95 %R)	9.3 (93 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
tert-Butylbenzene	< 0.5	10 (100 %R)	9.6 (96 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2,4-Trimethylbenzene	< 0.5	9.3 (93 %R)	9.1 (91 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
sec-Butylbenzene	< 0.5	10 (101 %R)	9.6 (96 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,3-Dichlorobenzene	< 0.5	10 (104 %R)	9.9 (99 %R) (5 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
p-Isopropyltoluene	< 0.5	10 (103 %R)	9.9 (99 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,4-Dichlorobenzene	< 0.5	10 (104 %R)	10 (100 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2-Dichlorobenzene	< 0.5	10 (102 %R)	9.9 (99 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
n-Butylbenzene	< 0.5	10 (100 %R)	9.7 (97 %R) (3 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2-Dibromo-3-chloropropane	< 0.5	10 (100 %R)	10 (101 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,3,5-Trichlorobenzene	< 0.5	10 (100 %R)	9.9 (99 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2,4-Trichlorobenzene	< 0.5	10 (102 %R)	10 (103 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Hexachlorobutadiene	< 0.5	9.7 (97 %R)	9.6 (96 %R) (1 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
Naphthalene	< 0.5	10 (100 %R)	10 (104 %R) (4 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
1,2,3-Trichlorobenzene	< 0.5	10 (100 %R)	10 (102 %R) (2 RPD)	9/6/2012	ug/l	70 - 130	30	524.2
4-Bromofluorobenzene (surr)	98 %R	107 %R	108 %R	9/6/2012	% Rec	70 - 130		524.2
1,2-Dichlorobenzene-d4 (surr)	103 %R	113 %R	116 %R	9/6/2012	% Rec	70 - 130		524.2

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-2B-0812	GW-FPC-7A -0812	GW-FPC-7B -0812	GW-FPC-8A -0812	GW-FPC-8B -0812	GW-GZ-105 -0812	DW-R-3-0812
Lab Sample ID:	113689.03	113689.04	113689.05	113689.06	113689.07	113689.11	113689.12
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	8/30/12	8/31/12	8/31/12	8/31/12	8/31/12	8/31/12	8/30/12
Date Received:	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12	9/4/12
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/6/12	9/6/12	9/6/12	9/6/12	9/6/12	9/6/12	9/6/12
Analyst:	KJP	KJP	KJP	KJP	KJP	KJP	KJP
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	10	1	1	1	1	10	1
1,4-Dioxane	**82**	< 0.25	< 0.25	**0.51**	**0.93**	**98**	**0.40**
4-Bromofluorobenzene (surr)	**97 %R**	**85 %R**	**74 %R**	**84 %R**	**83 %R**	**83 %R**	**83 %R**
Toluene-d8 (surr)	**105 %R**	**105 %R**	**82 %R**	**87 %R**	**91 %R**	**93 %R**	**103 %R**

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	DW-346BHR-0812	Trip Blank - 1,4 Diox.
Lab Sample ID:	113689.13	113689.15
Matrix:	aqueous	aqueous
Date Sampled:	8/30/12	8/9/12
Date Received:	9/4/12	9/4/12
Units:	ug/l	ug/l
Date of Analysis:	9/6/12	9/6/12
Analyst:	KJP	KJP
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	**93 %R**	**82 %R**
Toluene-d8 (surr)	**104 %R**	**103 %R**

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.25	4.1 (82 %R)	4.6 (93 %R) (13 RPD)	9/6/2012	ug/l	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	82 %R	81 %R	78 %R	9/6/2012	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	92 %R	90 %R	89 %R	9/6/2012	% Rec	70 - 130	50	8260B

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Any impact to data is addressed below.

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-AE-1A-0812	GW-AE-1B -0812	GW-AE-2B -0812	GW-FPC-7A -0812					
Lab Sample ID:	113689.01	113689.02	113689.03	113689.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/31/12	8/30/12	8/30/12	8/31/12					
Date Received:	9/4/12	9/4/12	9/4/12	9/4/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Iron	**0.32**	**2.1**	**9.0**	< 0.05	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**0.48**	**0.54**	**1.3**	< 0.005	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	**0.10**	< 0.05	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.018**	**0.007**	**0.020**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.018**	**0.035**	**0.11**	**0.003**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**33**	**28**	**52**	**14**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	< 0.001	< 0.001	**0.002**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**0.49**	**2.3**	**10**	< 0.05	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**10**	**13**	**27**	**3.8**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.50**	**0.59**	**1.5**	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	< 0.001	< 0.001	**0.008**	**0.004**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**3.6**	**5.7**	**12**	**1.9**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	< 0.001	**0.005**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**20**	**24**	**160**	**8**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-FPC-7B-0812	GW-FPC-8B -0812	GW-FPC-9A -0812	GW-FPC-11A -0812					
Lab Sample ID:	113689.05	113689.07	113689.08	113689.09					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	8/31/12	8/31/12	8/31/12	8/31/12	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	9/4/12	9/4/12	9/4/12	9/4/12					
Iron	< 0.05	< 0.05	**5.9**	**3.0**	AqDis	mg/L	9/7/12	200.8	DS
Manganese	< 0.005	**0.030**	**0.29**	**0.43**	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	< 0.05	< 0.05	< 0.05	**0.08**	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	< 0.001	**0.007**	**0.041**	**0.007**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.003**	**0.006**	**0.085**	**0.021**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**16**	**23**	**56**	**62**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	< 0.05	< 0.05	**6.6**	**3.2**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**3.8**	**4.3**	**26**	**18**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.009**	**0.029**	**0.31**	**0.44**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	< 0.001	< 0.001	**0.003**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**1.9**	**2.6**	**8.9**	**5.4**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	< 0.001	**0.002**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**8**	**16**	**77**	**110**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	**0.024**	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID:	GW-FPC-11B-0812	GW-GZ-105 -0812	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Lab Sample ID:	113689.1	113689.11					
Matrix:	aqueous	aqueous					
Date Sampled:	8/31/12	8/31/12					
Date Received:	9/4/12	9/4/12					
Iron	**0.80**	**4.6**	AqDis	mg/L	9/7/12	200.8	DS
Manganese	**0.53**	**0.51**	AqDis	mg/L	9/7/12	200.8	DS
Aluminum	< 0.05	< 0.05	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.003**	**0.015**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.037**	**0.055**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**48**	**78**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Copper	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.002**	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Iron	**0.89**	**4.9**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**16**	**23**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.58**	**0.52**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.002**	**0.008**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**5.4**	**6.0**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	**0.007**	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**110**	**140**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	< 0.005	< 0.005	AqTot	mg/L	9/6/12	200.8	DS

LABORATORY REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Sample ID: GW-FPC-8A-0812

Lab Sample ID:	113689.06
Matrix:	aqueous
Date Sampled:	8/31/12
Date Received:	9/4/12

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	**1.1**	AqTot	mg/L	9/7/12	200.8	DS
Antimony	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Arsenic	**0.006**	AqTot	mg/L	9/6/12	200.8	DS
Barium	**0.010**	AqTot	mg/L	9/6/12	200.8	DS
Beryllium	< 0.001	AqTot	mg/L	9/10/12	200.8	DS
Calcium	**25**	AqTot	mg/L	9/7/12	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Chromium	**0.003**	AqTot	mg/L	9/6/12	200.8	DS
Copper	**0.002**	AqTot	mg/L	9/6/12	200.8	DS
Cobalt	**0.001**	AqTot	mg/L	9/6/12	200.8	DS
Iron	**2.4**	AqTot	mg/L	9/6/12	200.8	DS
Lead	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Magnesium	**3.8**	AqTot	mg/L	9/7/12	200.8	DS
Manganese	**0.27**	AqTot	mg/L	9/6/12	200.8	DS
Mercury	< 0.0001	AqTot	mg/L	9/6/12	200.8	DS
Nickel	**0.003**	AqTot	mg/L	9/6/12	200.8	DS
Potassium	**2.2**	AqTot	mg/L	9/6/12	200.8	DS
Selenium	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Silver	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Sodium	**13**	AqTot	mg/L	9/7/12	200.8	DS
Thallium	< 0.001	AqTot	mg/L	9/6/12	200.8	DS
Vanadium	< 0.005	AqTot	mg/L	9/6/12	200.8	DS
Zinc	**0.006**	AqTot	mg/L	9/6/12	200.8	DS

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	12 (111 %R)		mg/L	9/7/12	85 - 115	20	200.8
Antimony	< 0.001	1.1 (113 %R)		mg/L	9/6/12	85 - 115	20	200.8
Arsenic	< 0.001	1.0 (103 %R)		mg/L	9/6/12	85 - 115	20	200.8
Barium	< 0.001	1.1 (115 %R)		mg/L	9/6/12	85 - 115	20	200.8
Beryllium	< 0.001	0.91 (91 %R)		mg/L	9/6/12	85 - 115	20	200.8
Calcium	< 0.05	12 (114 %R)		mg/L	9/7/12	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (110 %R)		mg/L	9/6/12	85 - 115	20	200.8
Chromium	< 0.001	1.1 (115 %R)		mg/L	9/6/12	85 - 115	20	200.8
Copper	< 0.001	1.0 (101 %R)		mg/L	9/6/12	85 - 115	20	200.8
Cobalt	< 0.001	1.1 (111 %R)		mg/L	9/6/12	85 - 115	20	200.8
Iron	< 0.05	11 (102 %R)		mg/L	9/6/12	85 - 115	20	200.8
Lead	< 0.001	1.0 (101 %R)		mg/L	9/6/12	85 - 115	20	200.8
Magnesium	< 0.05	13 (114 %R)		mg/L	9/7/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (115 %R)		mg/L	9/6/12	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (101 %R)		mg/L	9/6/12	85 - 115	20	200.8
Nickel	< 0.001	1.1 (108 %R)		mg/L	9/6/12	85 - 115	20	200.8
Potassium	< 0.05	12 (109 %R)		mg/L	9/6/12	85 - 115	20	200.8
Selenium	< 0.001	0.91 (91 %R)		mg/L	9/6/12	85 - 115	20	200.8
Silver	< 0.001	0.11 (106 %R)		mg/L	9/6/12	85 - 115	20	200.8
Sodium	< 5	13 (115 %R)		mg/L	9/7/12	85 - 115	20	200.8
Thallium	< 0.001	1.0 (104 %R)		mg/L	9/6/12	85 - 115	20	200.8
Vanadium	< 0.005	1.2 (115 %R)		mg/L	9/6/12	85 - 115	20	200.8
Zinc	< 0.005	0.95 (95 %R)		mg/L	9/6/12	85 - 115	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	113689.08	< 0.05	21 (93 %R)	21 (94 %R) (1 RPD)	mg/L	9/7/12	70-130	20	200.8
Antimony	113689.08	< 0.001	1.1 (110 %R)	1.1 (111 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Arsenic	113689.08	0.041	1.0 (99 %R)	1.0 (99 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Barium	113689.08	0.085	1.2 (107 %R)	1.2 (107 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Beryllium	113689.08	< 0.001	0.82 (82 %R)	0.81 (81 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Calcium	113689.08	56	79 (104 %R)	77 (97 %R) (7 RPD)	mg/L	9/7/12	70-130	20	200.8
Cadmium	113689.08	< 0.001	1.1 (110 %R)	1.1 (111 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Chromium	113689.08	< 0.001	0.93 (93 %R)	0.96 (96 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Copper	113689.08	< 0.001	0.79 (78 %R)	0.80 (80 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Cobalt	113689.08	< 0.001	0.88 (88 %R)	0.90 (90 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Iron	113689.08	6.6	16 (83 %R)	16 (84 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Lead	113689.08	< 0.001	1.1 (106 %R)	1.1 (106 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Magnesium	113689.08	26	47 (95 %R)	46 (91 %R) (4 RPD)	mg/L	9/7/12	70-130	20	200.8
Manganese	113689.08	0.31	1.2 (92 %R)	1.3 (95 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Mercury	113689.08	< 0.0001	0.0011 (105 %R)	0.0011 (108 %R) (3 RPD)	mg/L	9/6/12	70-130	20	200.8
Nickel	113689.08	0.003	0.84 (84 %R)	0.87 (86 %R) (2 RPD)	mg/L	9/6/12	70-130	20	200.8
Potassium	113689.08	8.9	18 (79 %R)	18 (85 %R) (7 RPD)	mg/L	9/6/12	70-130	20	200.8
Selenium	113689.08	0.002	0.91 (91 %R)	0.91 (91 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Silver	113689.08	< 0.001	0.78 (78 %R)	0.77 (77 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8
Sodium	113689.08	77	99 (101 %R)	98 (98 %R) (3 RPD)	mg/L	9/7/12	70-130	20	200.8
Thallium	113689.08	< 0.001	1.1 (108 %R)	1.1 (108 %R) (0 RPD)	mg/L	9/6/12	70-130	20	200.8
Vanadium	113689.08	< 0.005	0.95 (95 %R)	0.99 (99 %R) (4 RPD)	mg/L	9/6/12	70-130	20	200.8
Zinc	113689.08	0.024	0.77 (74 %R)	0.78 (75 %R) (1 RPD)	mg/L	9/6/12	70-130	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

QC REPORT

EAI ID#: **113689**

Client: **Provan & Lorber (Co)**

Client Designation: **Coakley Landfill | P2081**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Iron	< 0.05	11 (96 %R)		mg/L	9/7/12	85 - 115	20	200.8
Manganese	< 0.005	1.1 (108 %R)		mg/L	9/7/12	85 - 115	20	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Iron	113689.01	0.32	9.7 (85 %R)	9.7 (85 %R) (0 RPD)	mg/L	9/7/12	70-130	20	200.8
Manganese	113689.01	0.48	1.4 (93 %R)	1.4 (91 %R) (2 RPD)	mg/L	9/7/12	70-130	20	200.8

Aqueous Dissolved

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

Page 1 of 2

Chain-of-Custody Record

113689

20

Bold Fields Required. Please Circle Requested Analysis.

#	Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 BTEX / 524.2 MTBE only	VOC: 8260B 624 VTICs / 1,4 Dioxane EDB DBCP	VOC: 8021B BTEX Halos	VOC: 8015B GRO MEGRO MAYPH	SVOC: 8270D 625 SVTICs / ABN A BN PAH	SVOC: TPH8100 L1 L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608 / PEST 8081A PCB 8082	SVOC: Oil & Grease 1664 TPH 1664	TCLP: TCLP 1311 ABN Metals / VOC Pest Herb	Metals: Dissolved Metals (list below)	Metals: Total Metals (list below)	Inorganics: TS TSS TDS Spec. Con.	Inorganics: Br Cl F SO_4 / NO_2 NO_3 NO_3NO_2	Inorganics: BOD CBOD T. Alk.	Inorganics: TKN NH_3 T. Phos. O. Phos.	Inorganics: pH T. Res. Chlorine	Inorganics: COD Phenols TOC DOC	Inorganics: Total Cyanide Total Sulfide	Inorganics: Reactive Cyanide Reactive Sulfide / Flashpoint Ignitability	Micro: Total Coliform E. Coli / Fecal Coliform	Micro: Enterococci / Heterotrophic Plate Count	Other: 1,4-Dioxane	Other: Dis. Fe, Mn	Other	# of Containers	Notes MeOH Vial #
1	GW-AE-1A-0812	8-31-12/14:10	GW	G												X												X		2	
2	GW-AE-1B-0812	8-30-12/17:10	↓	↓												X												X		2	
3	GW-AE-2B-0812	8-30-12/18:20	↓	↓		X										X											X	X		6	
4	GW-FPC-7A-0812	8-31-12/11:45	↓	↓												X											X	X		4	
5	GW-FPC-7B-0812	8-31-12/11:05	↓	↓												X											X	X		4	
6	GW-FPC-8A-0812	8-31-12/12:35	↓	↓		X										X											X			5	
7	GW-FPC-8B-0812	8-31-12/10:05	↓	↓		X										X											X	X		6	
8	GW-FPC-9A-0812	8-31-12/13:35	↓	↓												X												X		2	
9	GW-FPC-11A-0812	8-31-12/17:30	↓	↓												X												X		2	
10	GW-FPC-11B-0812	8-31-12/16:35	↓	↓												X												X		2	
	Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water. Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH					H										N											-	N			

Project Manager: Kevin McKillen

Company: ProVan & horber, Inc.

Address: P.O. Box 389

City: Contoocook State: NH Zip: 03229

Phone: 603-746-3220 Ext.:

Fax: 746-5642

E-Mail:

Site Name: Coakley Landfill

Project #: P2081

State: (NH) MA ME VT Other:

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: PO #:

Date Needed: Standard T.A.T.

QA/QC Special

Reporting Level A B C

OR

Presumptive Certainty

Reporting Options

Prelims: Yes or No

If Yes: Fax or (PDF)

Electronic Options

No Fax E-Mail (PDF) Equis

Temp. 1 °C

Ice? (Yes) No

Sampler(s): K. McKillen, C. Perron

Relinquished By:	Date:	Time:	Received By:
[signature]	9/4/12	0837	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu

Other Metals: 23 TAL Metals

Dissolved Metals Field Filtered? (Yes) No

Notes: (ie: Special Detection Limits, Billing Info, If Different)

Site History:

Suspected Contamination:

Field Readings:

eastern analytical, inc.
professional laboratory services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

(White: Original Green: Project Manager)

Page 2 of 2

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY 113689

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

	SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 BTEX	VOC: 524.2 MTBE ONLY	VOC: 624 (8260B) VOCs	VOC: 1,4 DIOXANE	VOC: EDB DBCP	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MEGRO MAVPH	SVOC: 8270D 625 SVOCs ABN A BN PAH	SVOC: TPH8100 LI L2	SVOC: 8015B DRO MEDRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081A PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: BR CL F SO4 NO2 NO3 NO2NO3	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN NH3 T. PHOS. O. PHOS.	INORGANICS: PH T. RES. CHLORINE	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: 1,4-Dioxane	OTHER: Dis. Fe, Mn	OTHER:	# OF CONTAINERS	NOTES MEOH VIAL #
11	GW-GZ-103-0812	8-31-12 / 14:40	GW	G			X											X											X	X		6	
12	DW-A-3-0812	8-30-12 / 9:25	DW		X														X										X			4	
13	DW-346BNR-0812	8-30-12 / 17:40	DW		X																								X			4	
	Trip Blank				X																											2	
	Trip Blank																												X			2	
	MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER																																
	PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH				H	H												N											-	N			

PROJECT MANAGER: Kevin McKibbon

COMPANY: Pronon + Norber, Inc.

ADDRESS: P.O. Box 369

CITY: Contoocook STATE: NH ZIP: 03229

PHONE: 603-746-3220 EXT.:

FAX: 746-5642

E-MAIL:

SITE NAME: Coakley Landfill

PROJECT #: P2089

STATE: (NH) MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: PO #:

DATE NEEDED: Standard T.A.T.

QA/QC Special REPORTING LEVEL

A B C

OR

PRESUMPTIVE CERTAINTY

REPORTING OPTIONS

PRELIMS: YES OR NO

IF YES: FAX OR (PDF)

ELECTRONIC OPTIONS

NO FAX E-MAIL (PDF) EQUIS

TEMP. 1 °C

ICE? (YES) NO

SAMPLER(S): K. McKibbon, C. Perron

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Kevin McKibbon	9/4/12	0837	

METALS: 8 RCRA 13 PP FE, MN PB, CU

OTHER METALS: 23 TAL Metals

DISSOLVED METALS FIELD FILTERED? (YES) NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SITE HISTORY:

SUSPECTED CONTAMINATION:

FIELD READINGS:

eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMERSERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

Volatile Organics 8260B

Initial Calibration

IS/SS ID= V- 3966 New IS/SS
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3963 (L) 3962 (G)

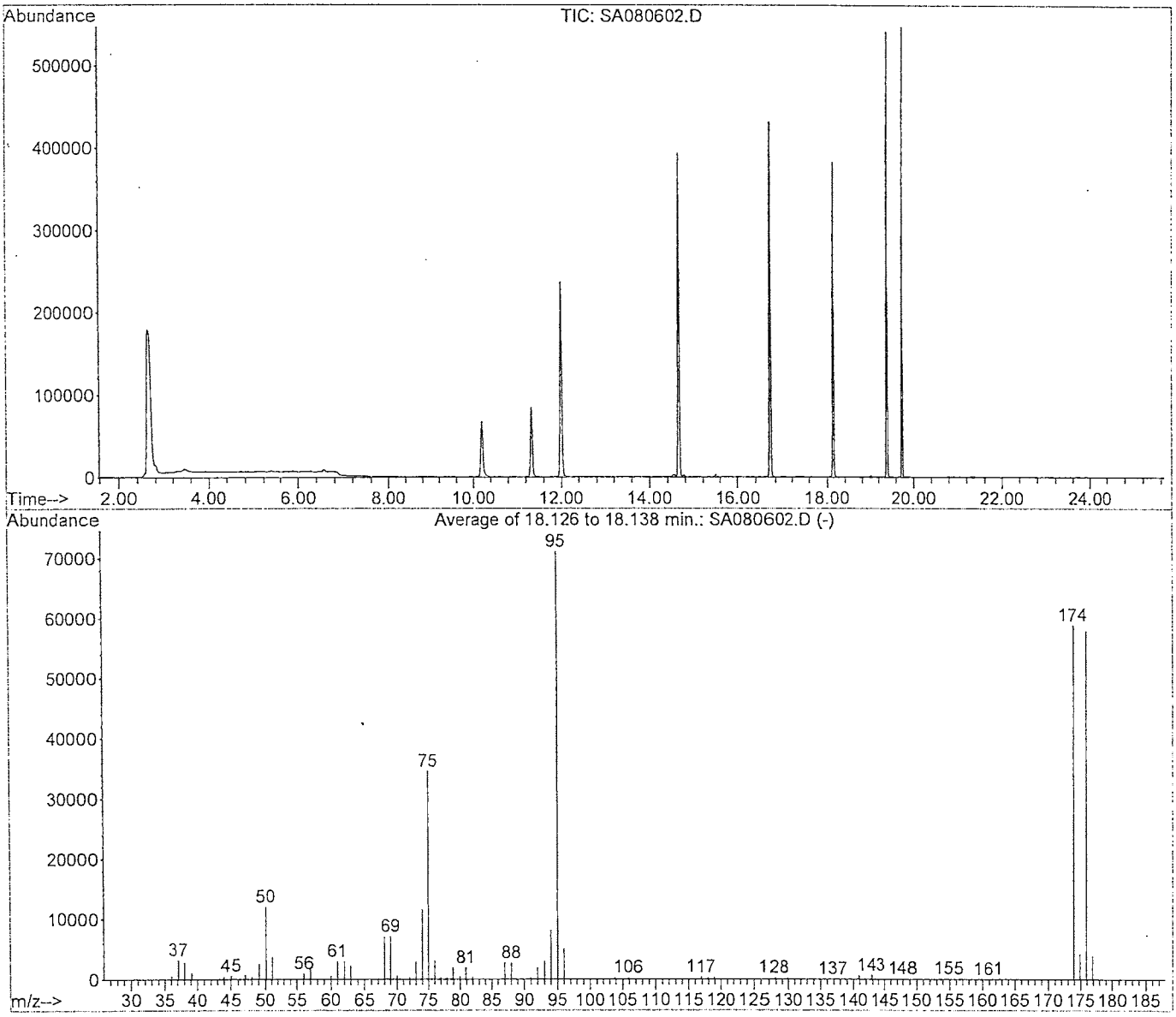
Analyst: Bdue

Date: 8/6/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A080601	BFB 25ng					VOCMS		AutoFind		✓
2		BFB					VOCMS		AutoFind		✓
3		0.2					VOCMS				
4		0.5					VOCMS				
5		1					VOCMS				
6		2					VOCMS				
7		5					VOCMS				
8		10					VOCMS				
9		20					VOCMS				
10		50					VOCMS				
11		50 G					VOCMS				
12		100					VOCMS				
13		100 G					VOCMS				
14		200					VOCMS				
15		200 G					VOCMS				
16		300					VOCMS				
17		300 G					VOCMS				
18		400 G					VOCMS				
19		Blank					VOCMS				
20		|					VOCMS				
21		|					VOCMS				
22		|					VOCMS				
23		LCS 20					VOCMS				
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Samples removed from autosampler ✓, order ✓ and pH N/A verified by Bdue 8/7/12 1-23

Data File : W:\1\DATA\AUG12\AUG0612\SA080602.D Vial: 2
Acq On : 6 Aug 2012 8:32 am Operator: BAM
Sample : BFB Inst : VOAMS5
Misc : xl; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012



Spectrum Information: Average of 18.126 to 18.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	12056	PASS
75	95	30	60	48.6	34584	PASS
95	95	100	100	100.0	71146	PASS
96	95	5	9	7.1	5038	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.8	58914	PASS
175	174	5	9	7.1	4187	PASS
176	174	95	101	98.3	57901	PASS
177	176	5	9	6.8	3932	PASS

SA080602.D 5VID0806.M Tue Sep 11 15:11:28 2012

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
1)	Fluorobenzene IS																		
2)	dichlorodifluoromethane	0.347	0.351	0.329	0.323	0.316	NA	NA	NA	0.321	NA	NA	NA	0.324	NA	0.330	0.332	0.330	3.56 ok
3) P	chloromethane	0.353	0.330	0.315	0.301	0.291	NA	NA	NA	0.298	NA	NA	NA	0.289	NA	0.290	0.288	0.306	7.33 ok
4) C	vinyl chloride	0.183	0.181	0.159	0.156	0.144	NA	NA	NA	0.146	0.185	NA	0.201	0.136	NA	0.126	NA	0.162	15.22 #
5)	bromomethane	0.202	0.191	0.182	0.186	0.187	NA	NA	NA	0.201	NA	NA	NA	0.205	NA	0.211	0.208	0.197	5.35 ok
6)	chloroethane	0.201	0.193	0.179	0.181	0.176	NA	NA	NA	0.180	NA	NA	NA	0.178	NA	0.181	0.179	0.183	4.56 ok
7)	trichlorofluoromethane	0.447	0.436	0.423	0.421	0.409	NA	NA	NA	0.422	NA	NA	NA	0.418	NA	0.420	0.410	0.423	2.85 ok
8)	diethyl ether	0.209	0.215	0.201	0.197	0.196	0.196	0.197	0.200	NA	NA	0.186	NA	NA	NA	NA	NA	0.200	4.14 ok
9)	1,1,2-Trichlorotrifluoroethane	0.315	0.306	0.299	0.291	0.286	0.286	0.288	0.291	NA	NA	0.266	NA	NA	NA	NA	NA	0.292	4.80 ok
10)	acrolein	NA	NA	0.017	0.012	0.008	NA	NA	NA	0.009	NA	NA	NA	NA	NA	NA	0.008	0.011	35.64 #
11)	acetone	NA	NA	NA	0.055	0.055	0.054	0.058	0.056	NA	NA	0.059	NA	NA	NA	NA	NA	0.056	3.36 ok
12) C	1,1-dichloroethene	0.272	0.273	0.267	0.259	0.257	0.256	0.260	0.263	NA	0.296	0.246	0.368	NA	NA	NA	NA	0.274	12.23 ok
13)	tert-Butyl Alcohol(TBA)	-0.121	0.023	0.021	0.020	0.020	0.020	0.021	0.021	NA	NA	0.020	NA	NA	NA	NA	NA	0.005	4.78 ok
14)	Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
15)	methylene chloride	0.321	0.306	0.293	0.282	0.278	0.274	0.276	0.279	NA	NA	0.257	NA	NA	NA	NA	NA	0.285	6.60 ok
16)	carbon disulfide	0.871	0.760	0.718	0.687	0.691	0.700	0.726	0.734	NA	NA	0.679	NA	NA	NA	NA	NA	0.730	8.06 ok
17)	acrylonitrile	NA	0.102	0.096	0.089	0.089	0.088	0.089	0.089	NA	NA	0.084	NA	NA	NA	NA	NA	0.091	6.07 ok
18)	Methyl-t-butyl ether(MTBE)	0.749	0.723	0.709	0.682	0.691	0.693	0.693	0.699	NA	0.788	0.654	0.824	NA	NA	NA	NA	0.719	6.96 ok
19)	trans-1,2-dichloroethene	0.267	0.269	0.258	0.252	0.251	0.257	0.265	0.276	NA	NA	0.263	NA	NA	NA	NA	NA	0.262	3.15 ok
20)	hexane	0.366	0.343	0.349	0.330	0.321	0.323	0.337	0.339	NA	NA	0.325	NA	NA	NA	NA	NA	0.337	4.31 ok
21)	Isopropyl ether(DIPE)	0.851	0.836	0.818	0.773	0.774	0.784	0.797	0.809	NA	NA	0.782	NA	NA	NA	NA	NA	0.803	3.48 ok
22)	vinyl acetate	0.583	0.509	0.448	0.449	0.409	NA	NA	NA	0.488	NA	NA	NA	0.460	NA	0.470	0.466	0.476	10.23 ok
23) P	1,1-dichloroethane	0.486	0.483	0.473	0.451	0.448	0.450	0.458	0.469	NA	NA	0.445	NA	NA	NA	NA	NA	0.462	3.38 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD	
24)	Ethyl-t-butyl ether(ETBE)	0.777	0.766	0.751	0.712	0.713	0.727	0.746	0.771	NA	NA	0.753	NA	NA	NA	NA	NA	0.746	3.22	ok
25)	2,2-dichloropropane	0.420	0.395	0.396	0.383	0.380	0.384	0.406	0.414	NA	NA	0.392	NA	NA	NA	NA	NA	0.397	3.54	ok
26)	cis-1,2-dichloroethene	0.378	0.371	0.347	0.341	0.343	0.347	0.352	0.360	NA	NA	0.341	NA	NA	NA	NA	NA	0.353	3.79	ok
27)	2-butanone(MEK)	-0.123	0.117	0.111	0.090	0.089	0.088	0.092	0.094	NA	NA	0.093	NA	NA	NA	NA	NA	0.072	11.34	ok
28)	bromochloromethane	0.141	0.141	0.139	0.136	0.138	0.140	0.144	0.152	NA	NA	0.148	NA	NA	NA	NA	NA	0.142	3.64	ok
29)	Tetrahydrofuran(THF)	-0.086	0.075	0.062	0.057	0.059	0.058	0.060	0.061	NA	NA	0.059	NA	NA	NA	NA	NA	0.045	9.39	ok
30) C	chloroform	0.484	0.476	0.464	0.445	0.448	0.453	0.465	0.481	NA	NA	0.461	NA	NA	NA	NA	NA	0.464	3.03	ok
31)	SS Dibromofluoromethane_MS	0.225	0.227	0.223	0.227	0.229	0.232	0.231	0.233	0.228	0.229	0.229	0.226	0.218	0.211	0.218	0.213	0.225	2.94	ok
32)	1,1,1-trichloroethane	0.405	0.407	0.398	0.391	0.393	0.407	0.418	0.441	NA	NA	0.416	NA	NA	NA	NA	NA	0.408	3.77	ok
33)	carbon tetrachloride	0.333	0.327	0.337	0.339	0.352	0.372	0.389	0.415	NA	NA	0.393	NA	NA	NA	NA	NA	0.362	8.77	ok
34)	1,1-dichloropropene	0.411	0.398	0.396	0.377	0.376	0.381	0.390	0.405	NA	NA	0.383	NA	NA	NA	NA	NA	0.391	3.16	ok
35)	SS 1,2-DCA-d4_MS	0.278	0.278	0.275	0.278	0.275	0.273	0.266	0.267	0.276	0.278	0.256	0.274	0.273	0.269	0.275	0.268	0.272	2.18	ok
36)	tert-amyl methyl ether(TAME)	0.732	0.717	0.709	0.678	0.683	0.707	0.732	0.774	NA	NA	0.764	NA	NA	NA	NA	NA	0.722	4.52	ok
37)	benzene	1.215	1.192	1.160	1.100	1.093	1.117	1.159	1.203	NA	NA	1.138	NA	NA	NA	NA	NA	1.153	3.86	ok
38)	1,2-dichloroethane	0.399	0.385	0.368	0.356	0.355	0.355	0.355	0.353	NA	NA	0.322	NA	NA	NA	NA	NA	0.361	6.05	ok
39)	trichloroethene	0.326	0.319	0.313	0.295	0.299	0.303	0.317	0.337	NA	0.329	0.323	-0.077	NA	NA	NA	NA	0.280	4.34	ok
40) C	1,2-dichloropropane	0.289	0.278	0.273	0.263	0.263	0.268	0.275	0.287	NA	NA	0.278	NA	NA	NA	NA	NA	0.275	3.44	ok
41)	1,4-dioxaneV	NA	NA	0.003	0.003	0.002	NA	NA	NA	0.002	NA	NA	NA	0.002	0.003	0.002	0.003	0.003	5.25	ok
42)	dibromomethane	0.171	0.168	0.163	0.160	0.161	0.164	0.170	0.177	NA	NA	0.171	NA	NA	NA	NA	NA	0.167	3.42	ok
43)	bromodichloromethane	0.328	0.314	0.315	0.319	0.332	0.350	0.368	0.392	NA	0.326	0.378	0.366	NA	NA	NA	NA	0.344	8.06	ok
44)	2-Chloroethoxyethene	NA	0.090	0.105	0.104	0.111	NA	NA	NA	0.120	NA	NA	NA	0.125	NA	0.138	NA	0.113	14.05	ok
45)	4-methyl-2-pentanone(MIBK)	0.077	0.076	0.078	0.073	0.075	0.077	0.081	0.083	NA	NA	0.080	NA	NA	NA	NA	NA	0.078	3.89	ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
46)	cis-1,3-dichloropropene	0.384	0.377	0.388	0.385	0.399	0.418	0.443	0.469	NA	0.391	0.455	0.444	NA	NA	NA	NA	0.414	7.99 ok
47)	Chlorobenzene-D5 IS																		
48)	SS Toluene-d8_MS	1.291	1.285	1.294	1.280	1.298	1.273	1.279	1.262	1.301	1.280	1.264	1.289	1.304	1.276	1.279	1.273	1.283	0.96 ok
49) C	toluene	1.750	1.672	1.650	1.561	1.570	1.594	1.662	1.664	NA	NA	1.537	NA	NA	NA	NA	NA	1.629	4.18 ok
50)	trans-1,3-dichloropropene	0.468	0.465	0.492	0.485	0.507	0.538	0.571	0.582	NA	0.469	0.568	0.523	NA	NA	NA	NA	0.515	8.54 ok
51)	1,1,2-trichloroethane	0.274	0.258	0.262	0.247	0.248	0.251	0.264	0.273	NA	NA	0.266	NA	NA	NA	NA	NA	0.260	3.94 ok
52)	2-hexanone	-0.205	0.195	0.196	0.170	0.169	0.173	0.175	0.169	NA	NA	0.161	NA	NA	NA	NA	NA	0.134	7.21 ok
53)	tetrachloroethene	0.445	0.431	0.431	0.412	0.416	0.425	0.451	0.459	NA	0.461	0.441	0.538	NA	NA	NA	NA	0.446	7.71 ok
54)	1,3-dichloropropane	0.576	0.554	0.554	0.522	0.528	0.535	0.551	0.562	NA	0.582	0.548	0.664	NA	NA	NA	NA	0.562	6.87 ok
55)	dibromochloromethane	0.273	0.279	0.298	0.307	0.332	0.370	0.404	0.426	NA	NA	0.413	NA	NA	NA	NA	NA	0.345	17.38 #
56)	1,2-dibromoethane	0.328	0.316	0.327	0.311	0.317	0.326	0.343	0.349	NA	NA	0.345	NA	NA	NA	NA	NA	0.329	4.13 ok
57) P	chlorobenzene	1.201	1.166	1.155	1.093	1.104	1.138	1.192	1.194	NA	NA	1.093	NA	NA	NA	NA	NA	1.148	3.80 ok
58)	1,1,1,2-tetrachloroethane	0.333	0.344	0.363	0.362	0.382	0.414	0.432	0.392	NA	NA	0.331	NA	NA	NA	NA	NA	0.372	9.52 ok
59) C	ethylbenzene	1.925	1.894	1.894	1.818	1.856	1.918	1.973	1.743	NA	NA	1.418	NA	NA	NA	NA	NA	1.827	9.15 ok
60)	mp-xylene	0.764	0.756	0.771	0.741	0.761	0.794	0.801	0.666	NA	0.777	0.537	0.874	NA	NA	NA	NA	0.749	11.47 ok
61)	o-xylene	0.733	0.731	0.736	0.710	0.719	0.745	0.785	0.773	NA	NA	0.693	NA	NA	NA	NA	NA	0.736	3.94 ok
62)	styrene	1.148	1.156	1.181	1.142	1.179	1.232	1.298	1.262	NA	NA	1.114	NA	NA	NA	NA	NA	1.190	5.14 ok
63) P	bromoform	0.143	0.142	0.158	0.169	0.195	0.225	0.251	0.265	NA	NA	0.256	NA	NA	NA	NA	NA	0.200	24.88 #
64)	iso-propylbenzene	1.746	1.735	1.745	1.688	1.724	1.792	1.859	1.746	NA	NA	1.515	NA	NA	NA	NA	NA	1.728	5.38 ok
65)	SS 4-BFB_MS	0.495	0.501	0.499	0.499	0.505	0.503	0.509	0.500	0.498	0.502	0.496	0.499	0.492	0.485	0.492	0.492	0.498	1.17 ok
66)	1,4-Dichlorobenzene-D4 IS																		
67)	bromobenzene	0.914	0.904	0.888	0.855	0.851	0.890	0.925	0.936	NA	NA	0.884	NA	NA	NA	NA	NA	0.894	3.24 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5VID0806.M
Title : VOAMS5
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D	10	=	SA080608.D
20	=	SA080609.D	50	=	SA080610.D	100	=	SA080612.D	200	=	SA080614.D
50G	=	SA080611.D	0.5	=	SA080604.D	300	=	SA080616.D	0.2	=	SA080603.D
100G	=	SA080613.D	G400	=	SA080618.D	G200	=	SA080615.D	G300	=	SA080617.D

	Compound	1	2	5	10	20	50	100	200	50G	0.5	300	0.2	100G	G400	G200	G300	AVG	%RSD
68) P	1,1,2,2-tetrachloroethane	0.657	0.637	0.631	0.619	0.596	0.619	0.620	0.615	NA	NA	0.601	NA	NA	NA	NA	NA	0.622	2.97 ok
69)	1,2,3-trichloropropane	0.247	0.222	0.224	0.210	0.210	0.214	0.221	0.224	NA	NA	0.219	NA	NA	NA	NA	NA	0.221	4.98 ok
70)	trans-1,4-dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	#DIV/0!	-100.00 ok
71)	n-propylbenzene	4.090	4.047	4.064	3.936	3.885	3.996	4.049	3.680	NA	NA	3.120	NA	NA	NA	NA	NA	3.874	8.00 ok
72)	2-chlorotoluene	2.609	2.568	2.512	2.406	2.394	2.459	2.487	2.409	NA	NA	2.097	NA	NA	NA	NA	NA	2.436	6.06 ok
73)	4-chlorotoluene	2.585	2.514	2.481	2.411	2.400	2.488	2.546	2.365	NA	NA	2.117	NA	NA	NA	NA	NA	2.434	5.70 ok
74)	1,3,5-trimethylbenzene	2.286	2.273	2.429	2.424	2.549	2.802	2.919	2.774	NA	NA	2.372	NA	NA	NA	NA	NA	2.536	9.42 ok
75)	tert-butylbenzene	2.579	2.552	2.551	2.509	2.478	2.604	2.646	2.471	NA	NA	2.178	NA	NA	NA	NA	NA	2.507	5.43 ok
76)	1,2,4-trimethylbenzene	2.174	2.214	2.382	2.368	2.503	2.814	2.944	2.751	NA	NA	2.341	NA	NA	NA	NA	NA	2.499	10.99 ok
77)	sec-butylbenzene	3.523	3.524	3.525	3.469	3.472	3.640	3.646	3.298	NA	NA	2.744	NA	NA	NA	NA	NA	3.427	8.05 ok
78)	1,3-dichlorobenzeneV	1.727	1.660	1.650	1.613	1.614	1.697	1.766	1.689	NA	NA	1.493	NA	NA	NA	NA	NA	1.657	4.78 ok
79)	p-isopropyltoluene	2.802	2.861	2.956	2.974	3.003	3.184	3.202	2.843	NA	NA	2.378	NA	NA	NA	NA	NA	2.911	8.39 ok
80)	1,4-dichlorobenzeneV	1.692	1.661	1.656	1.612	1.604	1.687	1.764	1.678	NA	NA	1.478	NA	NA	NA	NA	NA	1.648	4.81 ok
81)	1,2-dichlorobenzeneV	1.619	1.573	1.538	1.484	1.488	1.566	1.620	1.562	NA	NA	1.404	NA	NA	NA	NA	NA	1.539	4.55 ok
82)	n-butylbenzene	2.256	2.347	2.453	2.446	2.460	2.609	2.639	2.417	NA	NA	2.035	NA	NA	NA	NA	NA	2.407	7.59 ok
83)	SS 1,2-DCB-d4_MS	0.939	0.948	0.946	0.946	0.942	0.955	0.938	0.939	0.939	0.944	0.946	0.945	0.937	0.941	0.942	0.932	0.942	0.57 ok
84)	1,2-dibromo-3-chloropropane	0.100	0.098	0.105	0.113	0.122	0.137	0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.116	15.13 #
85)	1,3,5-trichlorobenzV	0.911	0.914	0.918	0.898	0.917	0.983	1.028	1.038	NA	NA	0.977	NA	NA	NA	NA	NA	0.954	5.65 ok
86)	1,2,4-trichlorobenzV	0.727	0.740	0.759	0.749	0.781	0.833	0.874	0.911	NA	NA	0.880	NA	NA	NA	NA	NA	0.806	8.62 ok
87)	hexachlorobutadieneV	0.352	0.349	0.349	0.344	0.346	0.367	0.388	0.405	NA	0.373	0.393	0.382	NA	NA	NA	NA	0.368	5.84 ok
88)	naphthaleneV	NA	1.465	1.614	1.737	1.851	2.009	2.102	2.188	NA	NA	2.098	NA	NA	NA	NA	NA	1.883	13.79 ok
89)	1,2,3-trichlorobenzV	0.636	0.644	0.659	0.648	0.675	0.720	0.747	0.789	NA	NA	0.776	NA	NA	NA	NA	NA	0.699	8.53 ok
90)	SS 2,5-DBT_MS	NA	NA	0.116	0.136	0.165	0.211	0.215	0.242	NA	NA	0.257	NA	NA	NA	NA	NA	0.192	28.05 #

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:03:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

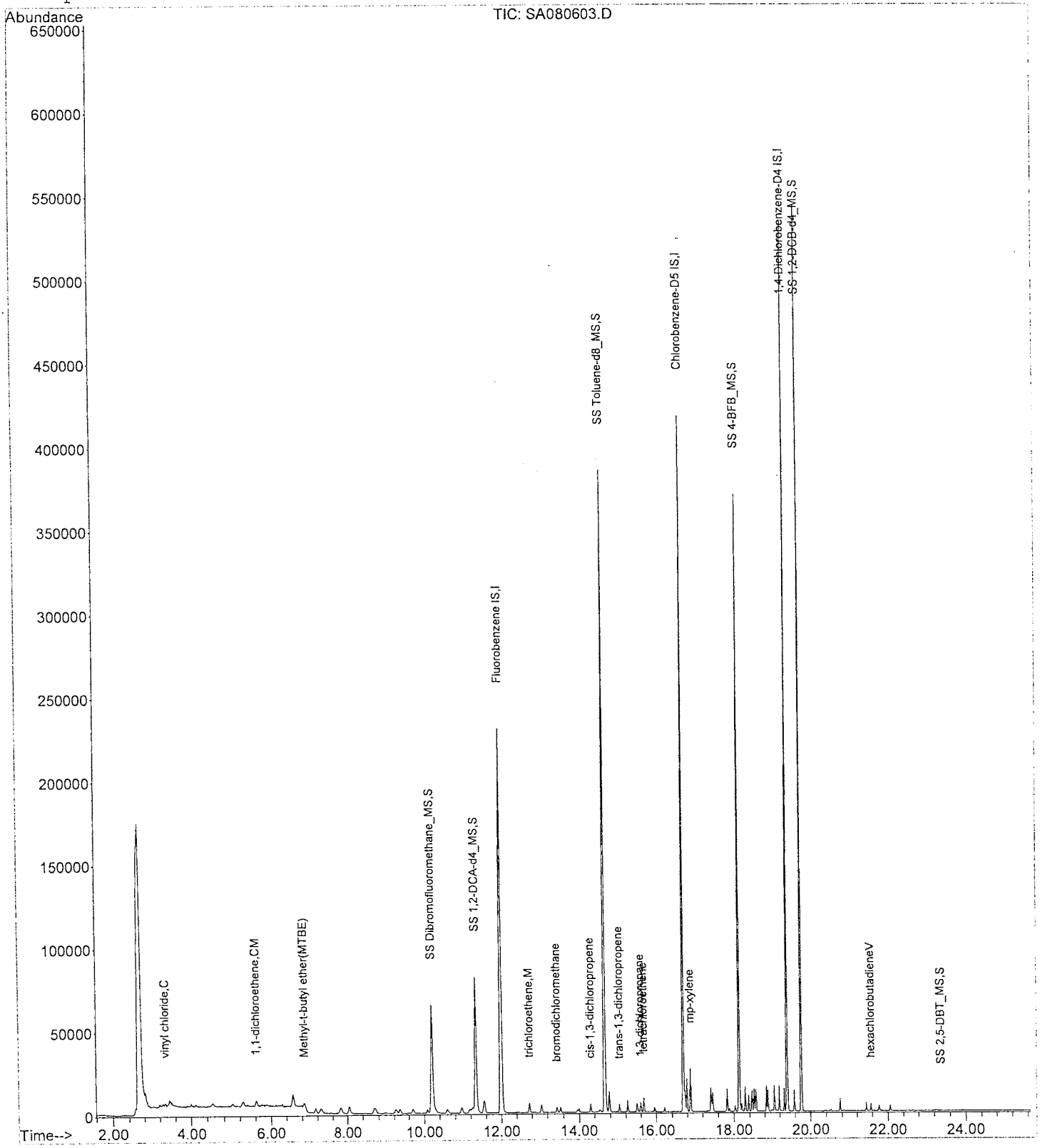
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	321600	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	237612	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	125934	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72699	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.85%			
35) SS 1,2-DCA-d4_MS	11.33	65	88149	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.54%			
48) SS Toluene-d8_MS	14.65	98	306251	10.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.29%			
65) SS 4-BFB_MS	18.13	95	118518	9.70	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.03%			
83) SS 1,2-DCB-d4_MS	19.75	152	118999	10.23	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.26%			
90) SS 2,5-DBT_MS	23.36	250	39	2.88	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.20%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	1293	0.183	ug/L	96
12) 1,1-dichloroethene	5.62	96	2366	0.348	ug/L #	81
18) Methyl-t-butyl ether(MTBE)	6.86	73	10606	0.508	ug/L #	93
39) trichloroethene	12.73	95	2485	0.264	ug/L	97
43) bromodichloromethane	13.44	83	2352	0.228	ug/L	98
46) cis-1,3-dichloropropene	14.30	75	2857	0.221	ug/L #	73
50) trans-1,3-dichloropropene	15.03	75	2486	0.211	ug/L #	84
53) tetrachloroethene	15.67	166	2555	0.267	ug/L	96
54) 1,3-dichloropropane	15.59	76	3156m	0.247	ug/L	
60) mp-xylene	16.88	106	8303	0.483	ug/L	98
87) hexachlorobutadieneV	21.56	225	962	0.211	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 13:49 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:05:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

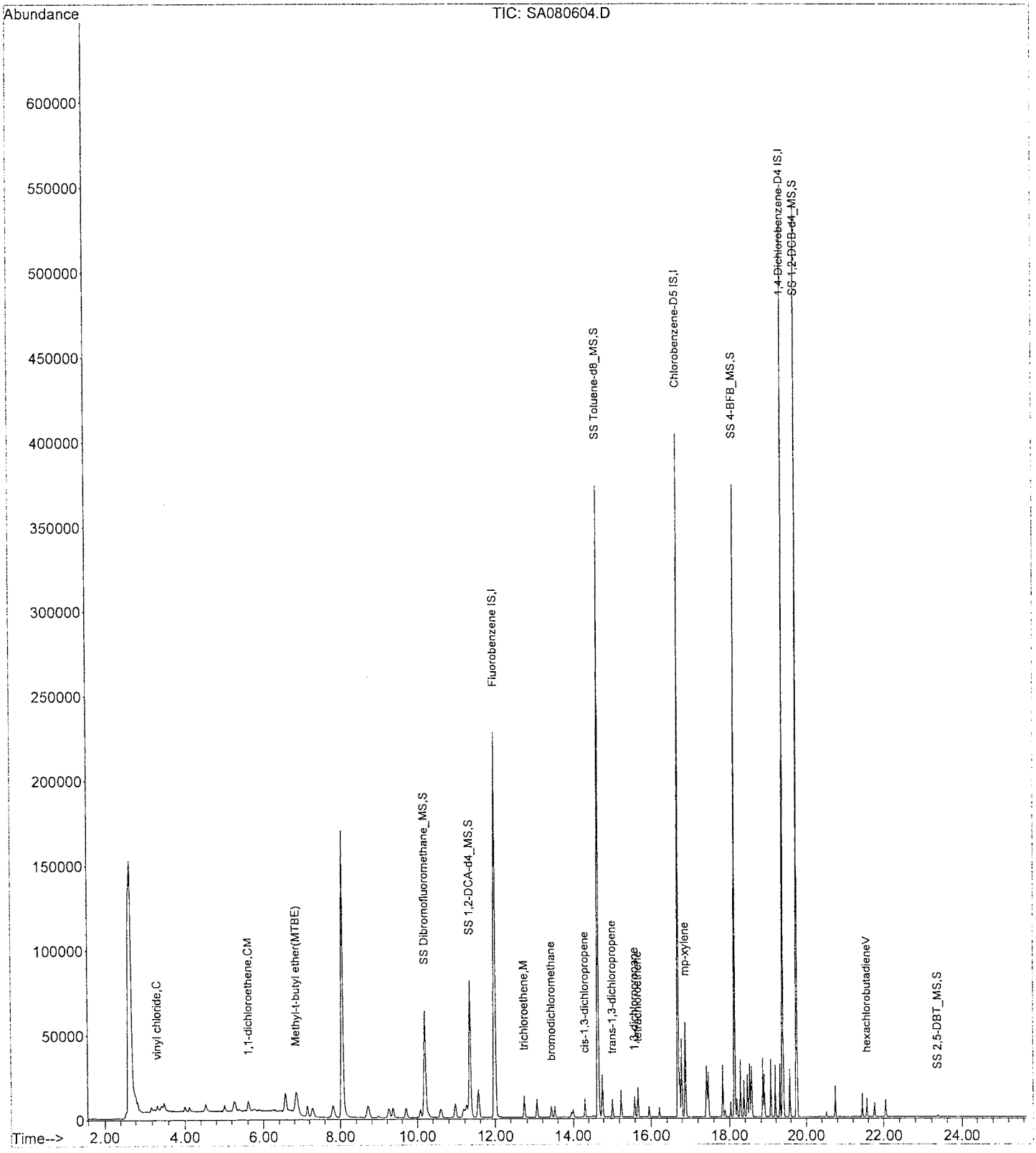
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316040	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	236074	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124392	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	72400	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.20%			
35) SS 1,2-DCA-d4_MS	11.33	65	87751	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.85%			
48) SS Toluene-d8_MS	14.65	98	302232	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	118398	9.76	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.56%			
83) SS 1,2-DCB-d4_MS	19.75	152	117461	10.22	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.19%			
90) SS 2,5-DBT_MS	23.36	250	327	2.99	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.48%#			
Target Compounds						Qvalue
4) vinyl chloride	3.34	62	2922	0.420	ug/L	99
12) 1,1-dichloroethene	5.62	96	4670	0.699	ug/L	89
18) Methyl-t-butyl ether(MTBE)	6.85	73	24890	1.214	ug/L	96
39) trichloroethene	12.73	95	5202	0.562	ug/L	95
43) bromodichloromethane	13.44	83	5151	0.507	ug/L	96
46) cis-1,3-dichloropropene	14.30	75	6183	0.486	ug/L #	85
50) trans-1,3-dichloropropene	15.03	75	5532	0.473	ug/L #	85
53) tetrachloroethene	15.67	166	5436	0.572	ug/L	97
54) 1,3-dichloropropane	15.59	76	6870m	0.541	ug/L	
60) mp-xylene	16.89	106	18338	1.073	ug/L	97
87) hexachlorobutadieneV	21.56	225	2318	0.516	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 13:50 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316523	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	235668	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124287	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.20	111	71321	10.05 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.53%		
35) SS 1,2-DCA-d4_MS	11.33	65	87915	10.19 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%		
48) SS Toluene-d8_MS	14.65	98	304199	10.04 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.44%		
65) SS 4-BFB_MS	18.13	95	116550	9.62 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.20%		
83) SS 1,2-DCB-d4_MS	19.75	152	116665	10.16 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.58%		
90) SS 2,5-DBT_MS	23.36	250	779	3.16 ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 7.90%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	10987	1.063 ug/L	99
3) chloromethane	3.20	50	11177	1.243 ug/L	99
4) vinyl chloride	3.34	62	5803	0.832 ug/L	99
5) bromomethane	3.99	94	6397	1.222 ug/L	93
6) chloroethane	4.11	64	6376	1.340 ug/L	94
7) trichlorofluoromethane	4.52	101	14147	1.230 ug/L	98
8) diethyl ether	5.02	59	6606	1.214 ug/L #	84
9) 1,1,2-Trichlorotrifluoroet	5.28	101	9980	1.309 ug/L	98
10) acrolein	5.28	56	888	1.006 ug/L #	30
11) acetone	5.39	43	3469	Below Cal	96
12) 1,1-dichloroethene	5.62	96	8605	1.286 ug/L	94
13) tert-Butyl Alcohol(TBA)	5.78	59	3824m	6.069 ug/L	
15) methylene chloride	6.56	84	10149	1.393 ug/L	95
16) carbon disulfide	6.57	76	27555	1.505 ug/L #	92
17) acrylonitrile	6.82	53	3487	1.258 ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	47439	2.310 ug/L	99
19) trans-1,2-dichloroethene	7.15	96	8464	1.071 ug/L	97
20) hexane	7.29	57	11572	1.038 ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	26945	1.090 ug/L	95
22) vinyl acetate	8.05	43	18443	1.913 ug/L	97
23) 1,1-dichloroethane	8.04	63	15382	1.071 ug/L #	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	24595	1.003 ug/L #	94
25) 2,2-dichloropropane	9.25	77	13302	1.097 ug/L #	91
26) cis-1,2-dichloroethene	9.35	61	11954	1.050 ug/L	98
27) 2-butanone(MEK)	8.96	43	3906	1.169 ug/L	92
28) bromochloromethane	10.07	128	4477	1.073 ug/L	99
29) Tetrahydrofuran(THF)	10.15	42	2714	1.359 ug/L #	87
30) chloroform	9.71	83	15315	1.068 ug/L	98
32) 1,1,1-trichloroethane	10.60	97	12810	1.027 ug/L	97
33) carbon tetrachloride	11.17	117	10537	1.029 ug/L #	98
34) 1,1-dichloropropene	10.97	75	13006	1.048 ug/L #	88
36) tert-amyl methyl ether(TAM	11.25	73	23160	1.052 ug/L	94
37) benzene	11.56	78	38463	1.101 ug/L	99

(#) = qualifier out of range (m) = manual integration
SA080605.D 5VID0806.M Tue Sep 11 15:15:12 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 06 11:17:15 2012 Quant Results File: 5VID0515.RES

Quant Method : C:\MSDCHEM\1...\5VID0515.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

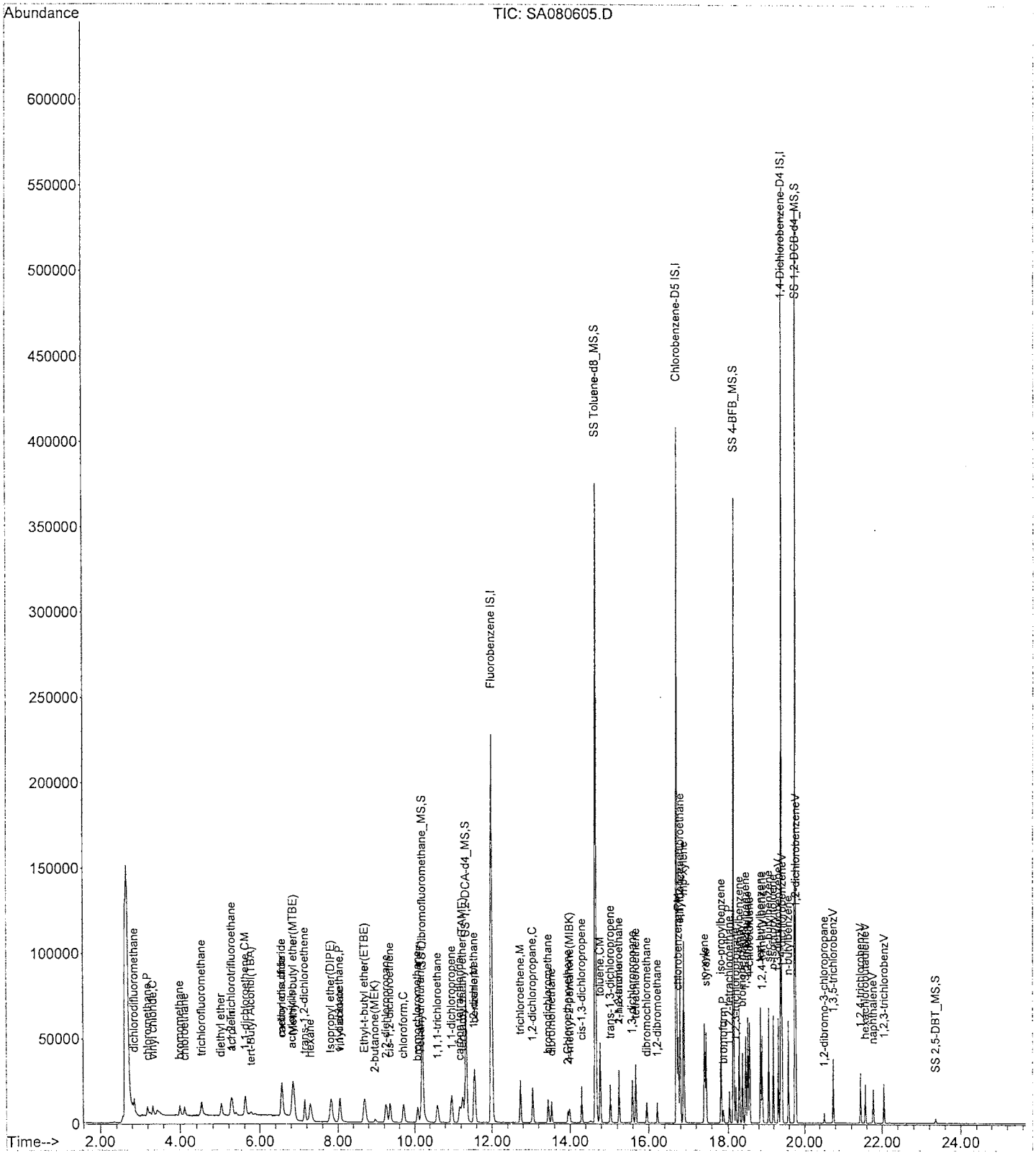
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	12624	1.104	ug/L		99
39)	trichloroethene	12.73	95	10323	1.114	ug/L		95
40)	1,2-dichloropropane	13.05	63	9136	1.068	ug/L	#	91
42)	dibromomethane	13.53	93	5408	1.092	ug/L	#	98
43)	bromodichloromethane	13.44	83	10369	1.020	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	3280	0.686	ug/L		94
45)	4-methyl-2-pentanone(MIBK)	13.99	58	2434	0.883	ug/L		78
46)	cis-1,3-dichloropropene	14.30	75	12152	0.954	ug/L	#	88
49)	toluene	14.77	91	41249	1.113	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	11039	0.945	ug/L	#	86
51)	1,1,2-trichloroethane	15.25	83	6461	1.110	ug/L		98
52)	2-hexanone	15.25	43	4837	1.058	ug/L		91
53)	tetrachloroethene	15.67	166	10478	1.104	ug/L	#	97
54)	1,3-dichloropropane	15.59	76	13576	1.071	ug/L		89
55)	dibromochloromethane	15.95	129	6441	2.288	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	7725	1.041	ug/L	#	99
57)	chlorobenzene	16.74	112	28294	1.118	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	7840	1.039	ug/L	#	73
59)	ethylbenzene	16.79	91	45367	1.061	ug/L		99
60)	mp-xylene	16.89	106	35991	2.109	ug/L		97
61)	o-xylene	17.41	106	17284	1.047	ug/L		98
62)	styrene	17.46	104	27043	0.946	ug/L		99
63)	bromoform	17.88	173	3359	2.855	ug/L	#	93
64)	iso-propylbenzene	17.83	105	41159	1.025	ug/L		98
67)	bromobenzene	18.38	156	11354	1.107	ug/L		97
68)	1,1,2,2-tetrachloroethane	18.03	83	8170	0.972	ug/L	#	1
69)	1,2,3-trichloropropane	18.21	110	3070	1.114	ug/L		93
71)	n-propylbenzene	18.28	91	50832	1.025	ug/L		99
72)	2-chlorotoluene	18.51	91	32423	1.053	ug/L		97
73)	4-chlorotoluene	18.56	91	32127	1.033	ug/L		97
74)	1,3,5-trimethylbenzene	18.45	105	28415	0.806	ug/L		98
75)	tert-butylbenzene	18.84	119	32051	1.039	ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	27025	0.744	ug/L		96
77)	sec-butylbenzene	19.06	105	43785	1.003	ug/L		97
78)	1,3-dichlorobenzeneV	19.32	146	21465	1.113	ug/L		98
79)	p-isopropyltoluene	19.19	119	34821	0.930	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	21028m	1.084	ug/L		
81)	1,2-dichlorobenzeneV	19.78	146	20120	1.110	ug/L	#	45
82)	n-butylbenzene	19.58	91	28034	0.869	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	1240	0.762	ug/L		96
85)	1,3,5-trichlorobenzV	20.75	180	11318	0.977	ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	9038	0.911	ug/L		97
87)	hexachlorobutadieneV	21.56	225	4376	0.974	ug/L		96
88)	naphthaleneV	21.76	128	16286	0.643	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	7901	0.911	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:11 2012 Quant Results File: 5VID0515.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	311125	10.000 ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233148	10.000 ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124069	10.000 ug/L	0.00
System Monitoring Compounds					
31) SS Dibromofluoromethane_MS	10.19	111	70681	10.14 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.35%		
35) SS 1,2-DCA-d4_MS	11.33	65	86459	10.19 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.94%		
48) SS Toluene-d8_MS	14.65	98	299524	10.00 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.96%		
65) SS 4-BFB_MS	18.13	95	116701	9.74 ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.37%		
83) SS 1,2-DCB-d4_MS	19.75	152	117640	10.26 ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.61%		
90) SS 2,5-DBT_MS	23.36	250	1906	3.59 ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 8.97%#		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	21865	2.151 ug/L	96
3) chloromethane	3.19	50	20517	2.321 ug/L	98
4) vinyl chloride	3.34	62	11275	1.645 ug/L	100
5) bromomethane	3.99	94	11888	2.310 ug/L	96
6) chloroethane	4.11	64	11981	2.561 ug/L	96
7) trichlorofluoromethane	4.52	101	27154	2.402 ug/L	98
8) diethyl ether	5.01	59	13374	2.500 ug/L	93
9) 1,1,2-Trichlorotrifluoroet	5.27	101	19045	2.540 ug/L	97
10) acrolein	5.26	56	2388m	2.752 ug/L	
11) acetone	5.38	43	5911	Below Cal	92
12) 1,1-dichloroethene	5.61	96	17012	2.586 ug/L	91
13) tert-Butyl Alcohol(TBA)	5.76	59	7098	11.461 ug/L #	100
15) methylene chloride	6.55	84	19040	2.660 ug/L	95
16) carbon disulfide	6.57	76	47284	2.627 ug/L	95
17) acrylonitrile	6.81	53	6364	2.335 ug/L	93
18) Methyl-t-butyl ether(MTBE)	6.85	73	89987	4.459 ug/L	99
19) trans-1,2-dichloroethene	7.15	96	16725	2.152 ug/L	96
20) hexane	7.28	57	21323	1.946 ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	51994	2.139 ug/L	96
22) vinyl acetate	8.05	43	31655	3.340 ug/L	100
23) 1,1-dichloroethane	8.05	63	30031	2.127 ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	47648	1.978 ug/L #	96
25) 2,2-dichloropropane	9.24	77	24594	2.063 ug/L #	91
26) cis-1,2-dichloroethene	9.36	61	23071	2.062 ug/L	98
27) 2-butanone(MEK)	8.96	43	7291	2.219 ug/L	95
28) bromochloromethane	10.08	128	8772	2.139 ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	4673	2.381 ug/L	92
30) chloroform	9.70	83	29613	2.101 ug/L	98
32) 1,1,1-trichloroethane	10.59	97	25340	2.067 ug/L	98
33) carbon tetrachloride	11.17	117	20325	2.018 ug/L #	96
34) 1,1-dichloropropene	10.97	75	24741	2.028 ug/L	91
36) tert-amyl methyl ether(TAM	11.24	73	44633	2.062 ug/L	97
37) benzene	11.56	78	74146	2.159 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:11:47 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

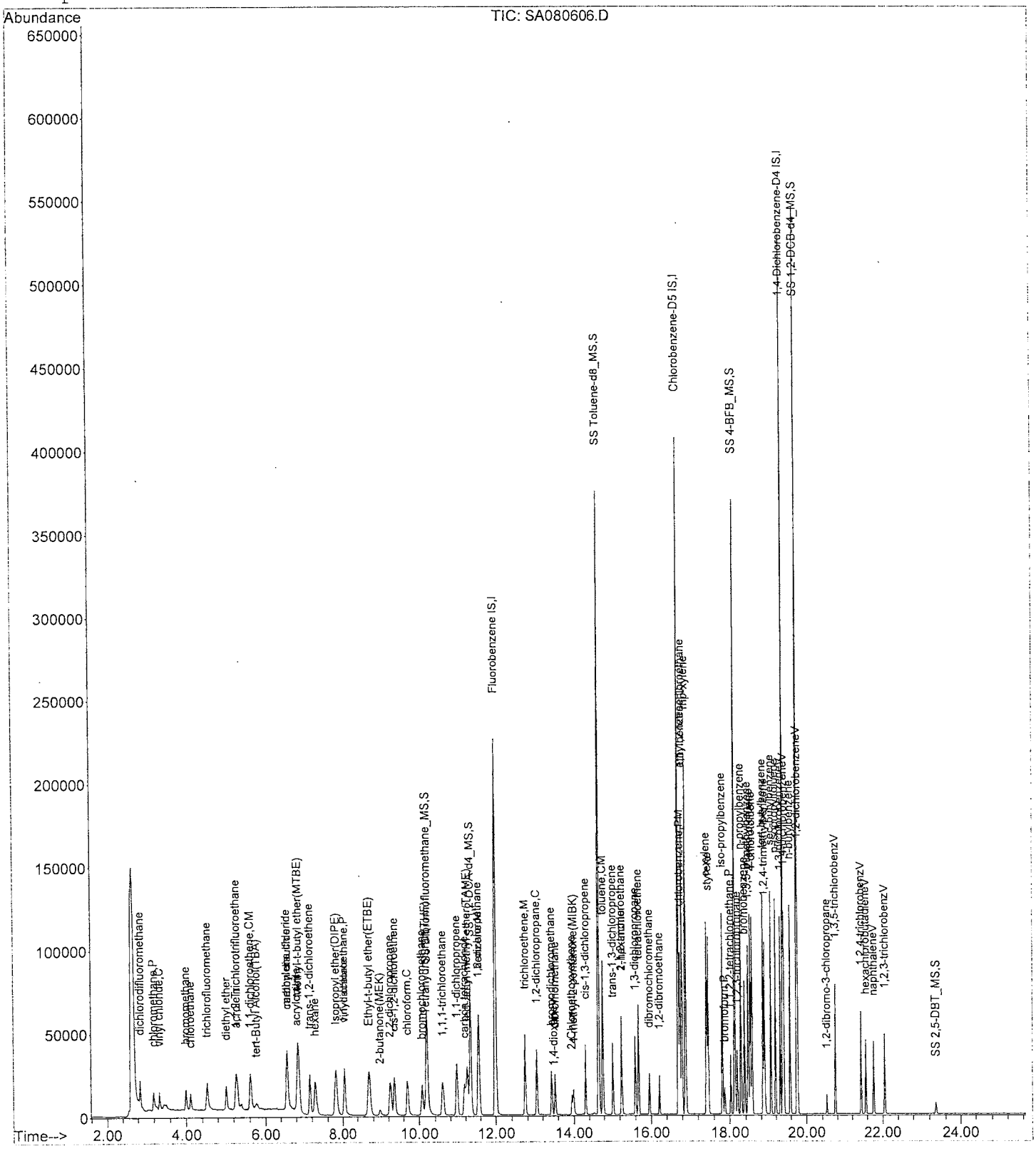
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	23978	2.133	ug/L		100
39)	trichloroethene	12.73	95	19845	2.179	ug/L		95
40)	1,2-dichloropropane	13.05	63	17299	2.058	ug/L	#	93
41)	1,4-dioxaneV	13.49	88	172	2.012	ug/L	#	49
42)	dibromomethane	13.53	93	10439	2.144	ug/L	#	98
43)	bromodichloromethane	13.44	83	19536	1.954	ug/L		97
44)	2-Chloroethoxyethene	13.95	63	5577	1.187	ug/L	#	52
45)	4-methyl-2-pentanone(MIBK)	13.99	58	4759	1.756	ug/L	#	51
46)	cis-1,3-dichloropropene	14.30	75	23468	1.874	ug/L	#	90
49)	toluene	14.77	91	77950	2.125	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	21698	1.878	ug/L	#	92
51)	1,1,2-trichloroethane	15.25	83	12011	2.086	ug/L		96
52)	2-hexanone	15.25	43	9095	2.010	ug/L		93
53)	tetrachloroethene	15.67	166	20088	2.140	ug/L		96
54)	1,3-dichloropropane	15.59	76	25839	2.061	ug/L		90
55)	dibromochloromethane	15.95	129	12989	3.076	ug/L	#	98
56)	1,2-dibromoethane	16.22	107	14738	2.008	ug/L	#	99
57)	chlorobenzene	16.74	112	54350	2.171	ug/L		98
58)	1,1,1,2-tetrachloroethane	16.78	131	16022	2.146	ug/L		98
59)	ethylbenzene	16.79	91	88316	2.088	ug/L		98
60)	mp-xylene	16.88	106	70544	4.178	ug/L		96
61)	o-xylene	17.41	106	34099	2.088	ug/L		97
62)	styrene	17.46	104	53896	1.907	ug/L		99
63)	bromoform	17.88	173	6642	3.500	ug/L	#	94
64)	iso-propylbenzene	17.82	105	80881	2.036	ug/L		98
67)	bromobenzene	18.38	156	22423	2.190	ug/L		96
68)	1,1,2,2-tetrachloroethane	18.04	83	15817	1.885	ug/L	#	1
69)	1,2,3-trichloropropane	18.20	110	5503	2.000	ug/L		99
71)	n-propylbenzene	18.28	91	100427	2.029	ug/L		97
72)	2-chlorotoluene	18.51	91	63734	2.074	ug/L		98
73)	4-chlorotoluene	18.56	91	62393	2.009	ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	56406	1.603	ug/L		97
75)	tert-butylbenzene	18.84	119	63320	2.056	ug/L		99
76)	1,2,4-trimethylbenzene	18.89	105	54935	1.515	ug/L		98
77)	sec-butylbenzene	19.06	105	87436	2.007	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	41188	2.140	ug/L		99
79)	p-isopropyltoluene	19.19	119	70986	1.899	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	41223	2.128	ug/L		94
81)	1,2-dichlorobenzeneV	19.77	146	39028	2.156	ug/L	#	88
82)	n-butylbenzene	19.58	91	58226	1.808	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	2421	1.491	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	22668	1.961	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	18354	1.853	ug/L		97
87)	hexachlorobutadieneV	21.56	225	8658	1.931	ug/L		97
88)	naphthaleneV	21.76	128	36346	1.437	ug/L		100
89)	1,2,3-trichlorobenzV	22.05	180	15984	1.846	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:12 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	323591	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	239508	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128971	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	72128	9.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.44%			
35) SS 1,2-DCA-d4_MS	11.33	65	88847	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.72%			
48) SS Toluene-d8_MS	14.65	98	309915	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.68%			
65) SS 4-BFB_MS	18.13	95	119539	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.09%			
83) SS 1,2-DCB-d4_MS	19.75	152	122063	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.42%			
90) SS 2,5-DBT_MS	23.36	250	7466	5.60	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 13.99%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	53171	5.030	ug/L	99
3) chloromethane	3.19	50	50935	5.541	ug/L	98
4) vinyl chloride	3.34	62	25654	3.600	ug/L	99
5) bromomethane	3.99	94	29457	5.503	ug/L	98
6) chloroethane	4.11	64	29011	5.962	ug/L	96
7) trichlorofluoromethane	4.52	101	68502	5.827	ug/L	100
8) diethyl ether	5.02	59	32583	5.855	ug/L	94
9) 1,1,2-Trichlorotrifluoroet	5.27	101	48383	6.205	ug/L	98
10) acrolein	5.27	56	2796m	3.098	ug/L	
11) acetone	5.38	43	14589	2.255	ug/L	94
12) 1,1-dichloroethene	5.61	96	43165	6.309	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.76	59	17125	26.587	ug/L #	100
15) methylene chloride	6.55	84	47335	6.357	ug/L	96
16) carbon disulfide	6.57	76	116173	6.205	ug/L	100
17) acrylonitrile	6.81	53	15473	5.459	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	229512	10.934	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	41764	5.168	ug/L	97
20) hexane	7.29	57	56522	4.960	ug/L	97
21) Isopropyl ether(DIPE)	7.82	45	132364	5.236	ug/L	97
22) vinyl acetate	8.05	43	72430	7.347	ug/L	100
23) 1,1-dichloroethane	8.04	63	76560	5.214	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	121521	4.850	ug/L	97
25) 2,2-dichloropropane	9.25	77	64044	5.166	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	56120	4.824	ug/L	95
27) 2-butanone(MEK)	8.97	43	18024	5.274	ug/L	97
28) bromochloromethane	10.07	128	22570	5.291	ug/L	97
29) Tetrahydrofuran(THF)	10.16	42	10052	4.924	ug/L	96
30) chloroform	9.70	83	75079	5.122	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	64394	5.051	ug/L	99
33) carbon tetrachloride	11.17	117	54504	5.204	ug/L #	98
34) 1,1-dichloropropene	10.97	75	64118	5.053	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	114648	5.094	ug/L	98
37) benzene	11.56	78	187750	5.256	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:12:50 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

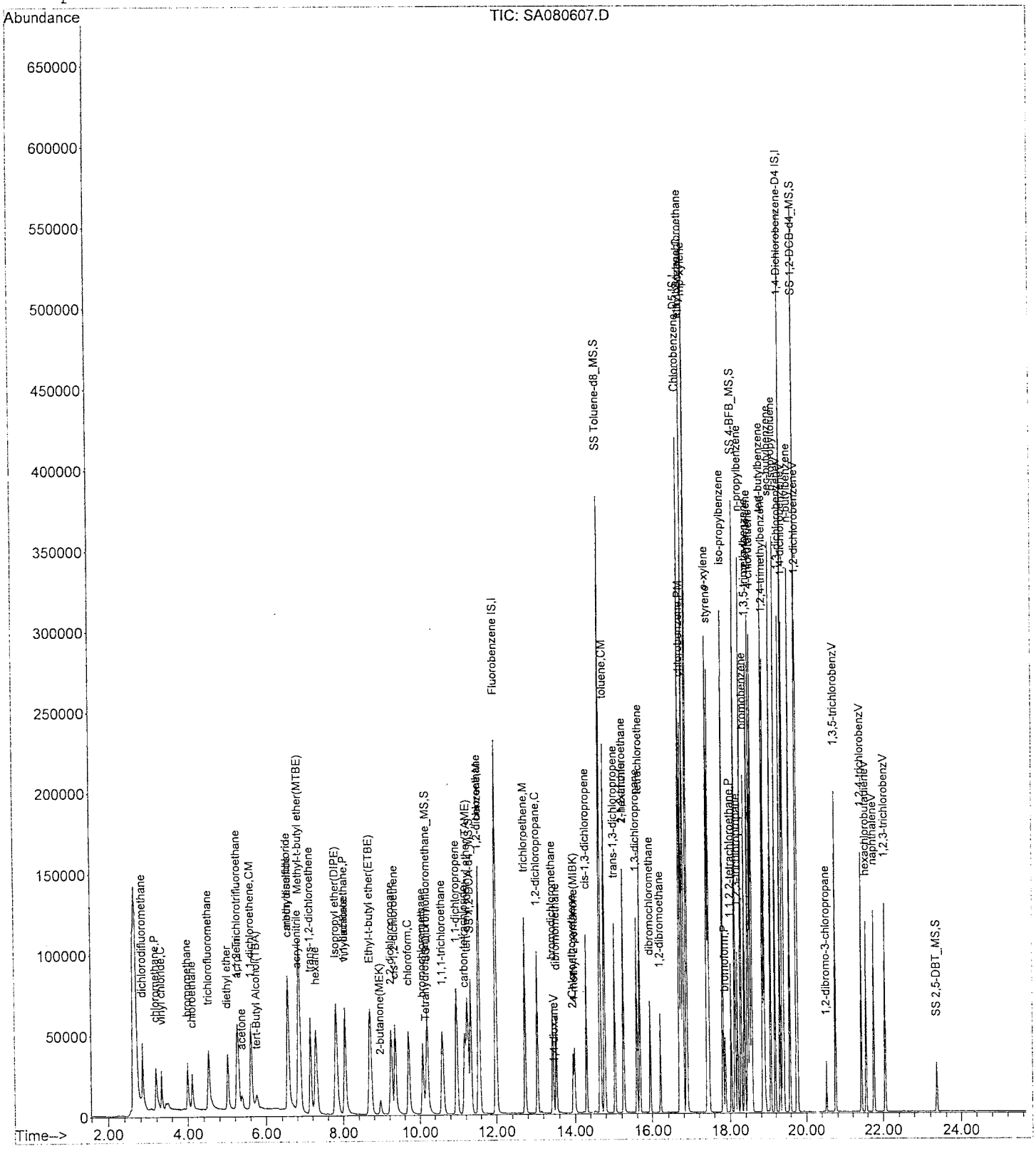
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	59487	5.088	ug/L		99
39)	trichloroethene	12.73	95	50627	5.346	ug/L		95
40)	1,2-dichloropropane	13.05	63	44207	5.057	ug/L		94
41)	1,4-dioxaneV	13.48	88	873	9.820	ug/L	#	80
42)	dibromomethane	13.53	93	26366	5.206	ug/L	#	99
43)	bromodichloromethane	13.44	83	50982	4.904	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	17014	3.481	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	12579	4.462	ug/L		87
46)	cis-1,3-dichloropropene	14.30	75	62796	4.820	ug/L	#	92
49)	toluene	14.77	91	197616	5.245	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	58883	4.960	ug/L	#	92
51)	1,1,2-trichloroethane	15.25	83	31374	5.303	ug/L		97
52)	2-hexanone	15.25	43	23507	5.057	ug/L		95
53)	tetrachloroethene	15.67	166	51556	5.345	ug/L		97
54)	1,3-dichloropropane	15.59	76	66386	5.154	ug/L		93
55)	dibromochloromethane	15.95	129	35732	5.670	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	39148	5.193	ug/L	#	99
57)	chlorobenzene	16.74	112	138257	5.376	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	43412	5.660	ug/L		99
59)	ethylbenzene	16.79	91	226843	5.221	ug/L		99
60)	mp-xylene	16.89	106	184680	10.648	ug/L		95
61)	o-xylene	17.41	106	88114	5.252	ug/L		97
62)	styrene	17.46	104	141440	4.871	ug/L		99
63)	bromoform	17.88	173	18891	5.783	ug/L	#	94
64)	iso-propylbenzene	17.82	105	208983	5.121	ug/L		98
67)	bromobenzene	18.38	156	57275	5.382	ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	40719	4.667	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	14428	5.045	ug/L		96
71)	n-propylbenzene	18.28	91	262085	5.094	ug/L		97
72)	2-chlorotoluene	18.51	91	162000	5.072	ug/L		96
73)	4-chlorotoluene	18.56	91	159991	4.956	ug/L		97
74)	1,3,5-trimethylbenzene	18.45	105	156635	4.283	ug/L		97
75)	tert-butylbenzene	18.84	119	164524	5.138	ug/L		98
76)	1,2,4-trimethylbenzene	18.89	105	153626	4.076	ug/L		98
77)	sec-butylbenzene	19.06	105	227299	5.019	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	106408	5.319	ug/L		98
79)	p-isopropyltoluene	19.18	119	190634	4.906	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	106758	5.302	ug/L		96
81)	1,2-dichlorobenzeneV	19.78	146	99154	5.270	ug/L	#	90
82)	n-butylbenzene	19.58	91	158164	4.726	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	6773	4.013	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	59213	4.927	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	48968	4.757	ug/L		98
87)	hexachlorobutadieneV	21.56	225	22516	4.831	ug/L		97
88)	naphthaleneV	21.76	128	104106	3.961	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	42519	4.724	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:13 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	324389	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	242009	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	129685	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	73780	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
35) SS 1,2-DCA-d4_MS	11.32	65	90318	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.13%			
48) SS Toluene-d8_MS	14.65	98	309846	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.62%			
65) SS 4-BFB_MS	18.13	95	120850	9.71	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.14%			
83) SS 1,2-DCB-d4_MS	19.75	152	122688	10.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.38%			
90) SS 2,5-DBT_MS	23.36	250	17585	9.26	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 23.16%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	104764	9.886	ug/L	100
3) chloromethane	3.19	50	97535	10.584	ug/L	100
4) vinyl chloride	3.34	62	50688	7.095	ug/L	100
5) bromomethane	3.99	94	60497	11.274	ug/L	98
6) chloroethane	4.11	64	58601	12.013	ug/L	98
7) trichlorofluoromethane	4.52	101	136522	11.584	ug/L	99
8) diethyl ether	5.02	59	63875	11.450	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	94286	12.062	ug/L	98
10) acrolein	5.27	56	3902	4.313	ug/L #	74
11) acetone	5.38	43	17944	4.342	ug/L	92
12) 1,1-dichloroethene	5.61	96	84084	12.259	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.77	59	32325	50.061	ug/L #	100
15) methylene chloride	6.55	84	91427	12.249	ug/L	96
16) carbon disulfide	6.57	76	222989	11.881	ug/L	98
17) acrylonitrile	6.81	53	29022	10.215	ug/L	98
18) Methyl-t-butyl ether(MTBE)	6.85	73	442551	21.031	ug/L	99
19) trans-1,2-dichloroethene	7.15	96	81697	10.084	ug/L	96
20) hexane	7.29	57	106898	9.358	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	250738	9.893	ug/L	97
22) vinyl acetate	8.05	43	145728	14.747	ug/L	99
23) 1,1-dichloroethane	8.05	63	146249	9.936	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	230985	9.196	ug/L	97
25) 2,2-dichloropropane	9.25	77	124240	9.997	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	110682	9.490	ug/L	97
27) 2-butanone(MEK)	8.96	43	29336	8.563	ug/L	98
28) bromochloromethane	10.08	128	43996	10.289	ug/L	97
29) Tetrahydrofuran(THF)	10.15	42	18637	9.107	ug/L	99
30) chloroform	9.71	83	144451	9.831	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	126782	9.920	ug/L	99
33) carbon tetrachloride	11.17	117	109899	10.467	ug/L #	98
34) 1,1-dichloropropene	10.97	75	122422	9.624	ug/L	93
36) tert-amyl methyl ether(TAM	11.24	73	219873	9.745	ug/L	98
37) benzene	11.56	78	356984	9.969	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:13:49 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

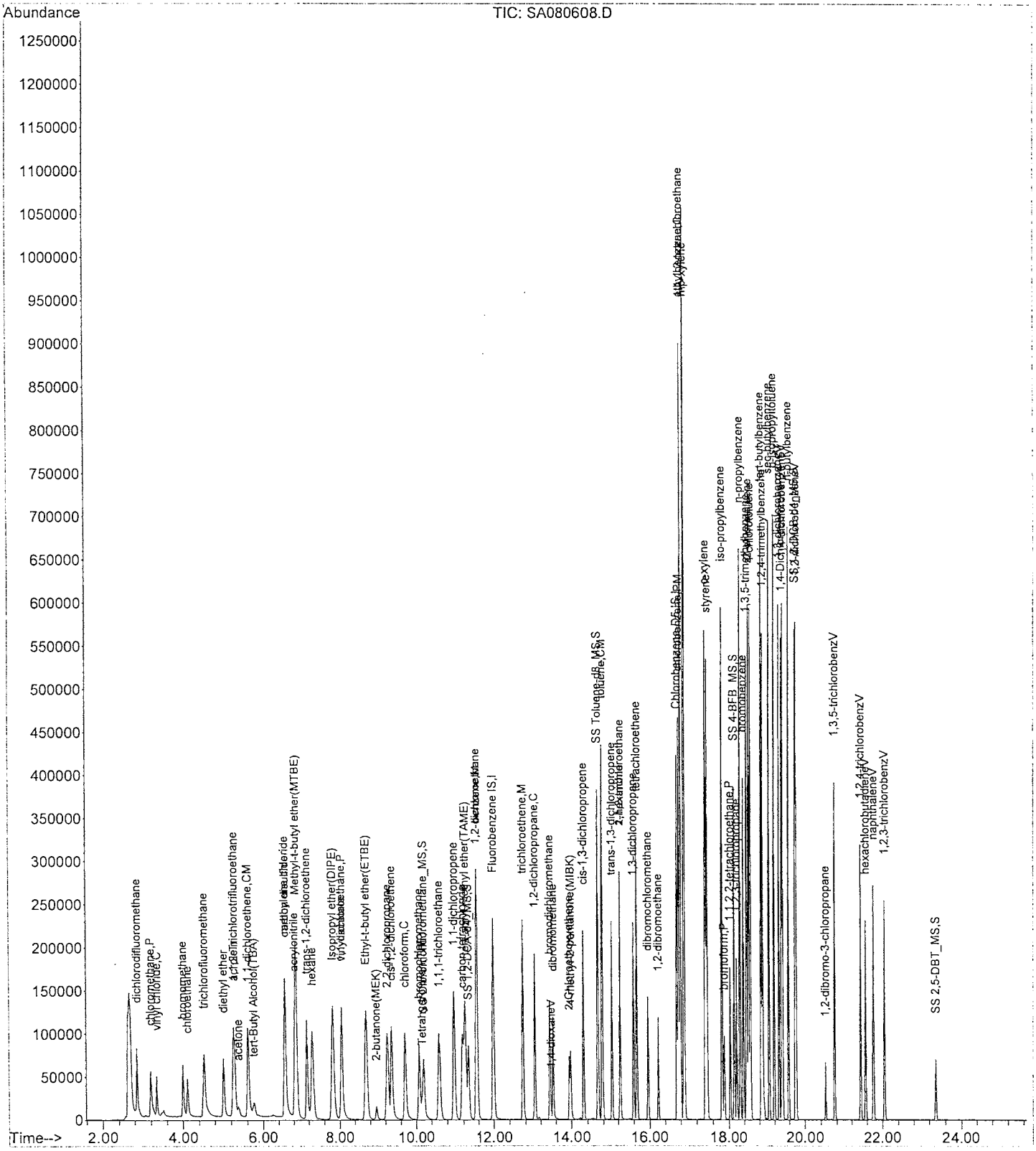
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	115520	9.856	ug/L		99
39)	trichloroethene	12.73	95	95604	10.070	ug/L		94
40)	1,2-dichloropropane	13.05	63	85183	9.720	ug/L		96
41)	1,4-dioxaneV	13.48	88	1778	19.951	ug/L	#	86
42)	dibromomethane	13.53	93	51822	10.207	ug/L	#	98
43)	bromodichloromethane	13.44	83	103517	9.933	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	33701	6.878	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	23714	8.391	ug/L		90
46)	cis-1,3-dichloropropene	14.30	75	124921	9.565	ug/L		92
49)	toluene	14.77	91	377743	9.923	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	117495	9.795	ug/L		93
51)	1,1,2-trichloroethane	15.25	83	59682	9.984	ug/L		98
52)	2-hexanone	15.25	43	41073	8.745	ug/L		96
53)	tetrachloroethene	15.67	166	99630	10.223	ug/L		97
54)	1,3-dichloropropane	15.59	76	126404	9.712	ug/L		94
55)	dibromochloromethane	15.95	129	74194	10.037	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	75271	9.882	ug/L	#	99
57)	chlorobenzene	16.74	112	264609	10.182	ug/L		99
58)	1,1,1,2-tetrachloroethane	16.78	131	87634	11.307	ug/L		98
59)	ethylbenzene	16.79	91	440040	10.023	ug/L		98
60)	mp-xylene	16.89	106	358565	20.460	ug/L		95
61)	o-xylene	17.41	106	171754	10.131	ug/L		95
62)	styrene	17.46	104	276307	9.416	ug/L		99
63)	bromoform	17.88	173	40931	9.874	ug/L	#	95
64)	iso-propylbenzene	17.83	105	408527	9.907	ug/L		98
67)	bromobenzene	18.38	156	110889	10.362	ug/L		96
68)	1,1,2,2-tetrachloroethane	18.03	83	80231	9.145	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	27289	9.489	ug/L		97
71)	n-propylbenzene	18.28	91	510400	9.866	ug/L		97
72)	2-chlorotoluene	18.51	91	311972	9.713	ug/L		96
73)	4-chlorotoluene	18.56	91	312660	9.632	ug/L		96
74)	1,3,5-trimethylbenzene	18.45	105	314307	8.547	ug/L		98
75)	tert-butylbenzene	18.84	119	325327	10.104	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	307042	8.102	ug/L		98
77)	sec-butylbenzene	19.06	105	449935	9.881	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	209179	10.399	ug/L		98
79)	p-isopropyltoluene	19.19	119	385722	9.872	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	209097	10.328	ug/L		96
81)	1,2-dichlorobenzeneV	19.77	146	192455	10.172	ug/L		96
82)	n-butylbenzene	19.58	91	317274	9.427	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	14627	8.618	ug/L		99
85)	1,3,5-trichlorobenzV	20.75	180	116460	9.637	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	97075	9.378	ug/L		98
87)	hexachlorobutadieneV	21.56	225	44655	9.529	ug/L		97
88)	naphthaleneV	21.76	128	225296	8.524	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	84046	9.287	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:14 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	322868	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	241334	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	133534	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73903	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.12%			
35) SS 1,2-DCA-d4_MS	11.32	65	88686	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.76%			
48) SS Toluene-d8_MS	14.65	98	313143	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.96%			
65) SS 4-BFB_MS	18.13	95	121929	9.83	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.28%			
83) SS 1,2-DCB-d4_MS	19.75	152	125727	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.89%			
90) SS 2,5-DBT_MS	23.36	250	44003	18.41	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 46.03%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	204235	19.363	ug/L	100
3) chloromethane	3.19	50	188088	20.507	ug/L	99
4) vinyl chloride	3.34	62	92845	13.057	ug/L	99
5) bromomethane	3.99	94	120563	22.573	ug/L	100
6) chloroethane	4.11	64	113330	23.342	ug/L	98
7) trichlorofluoromethane	4.52	101	264170	22.521	ug/L	99
8) diethyl ether	5.01	59	126776	22.832	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	184609	23.729	ug/L	97
10) acrolein	5.28	56	5136	5.704	ug/L	83
11) acetone	5.38	43	35268	15.335	ug/L	93
12) 1,1-dichloroethene	5.61	96	166261	24.353	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.77	59	65054	101.223	ug/L #	100
15) methylene chloride	6.55	84	179290	24.133	ug/L	96
16) carbon disulfide	6.57	76	446244	23.888	ug/L	99
17) acrylonitrile	6.81	53	57626	20.377	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	892529	42.614	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	161790	20.063	ug/L	97
20) hexane	7.29	57	207116	18.216	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	499965	19.820	ug/L	97
22) vinyl acetate	8.05	43	264329	26.874	ug/L	99
23) 1,1-dichloroethane	8.04	63	289368	19.752	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	460612	18.424	ug/L	97
25) 2,2-dichloropropane	9.25	77	245535	19.851	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	221170	19.052	ug/L	96
27) 2-butanone(MEK)	8.96	43	57507	16.866	ug/L	99
28) bromochloromethane	10.08	128	88910	20.891	ug/L	96
29) Tetrahydrofuran(THF)	10.15	42	37906	18.609	ug/L	98
30) chloroform	9.71	83	289180	19.774	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	253516	19.929	ug/L	99
33) carbon tetrachloride	11.17	117	227189	21.741	ug/L #	98
34) 1,1-dichloropropene	10.96	75	242922	19.187	ug/L	94
36) tert-amyl methyl ether(TAM	11.24	73	441059	19.640	ug/L	97
37) benzene	11.56	78	705667	19.800	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:14:52 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

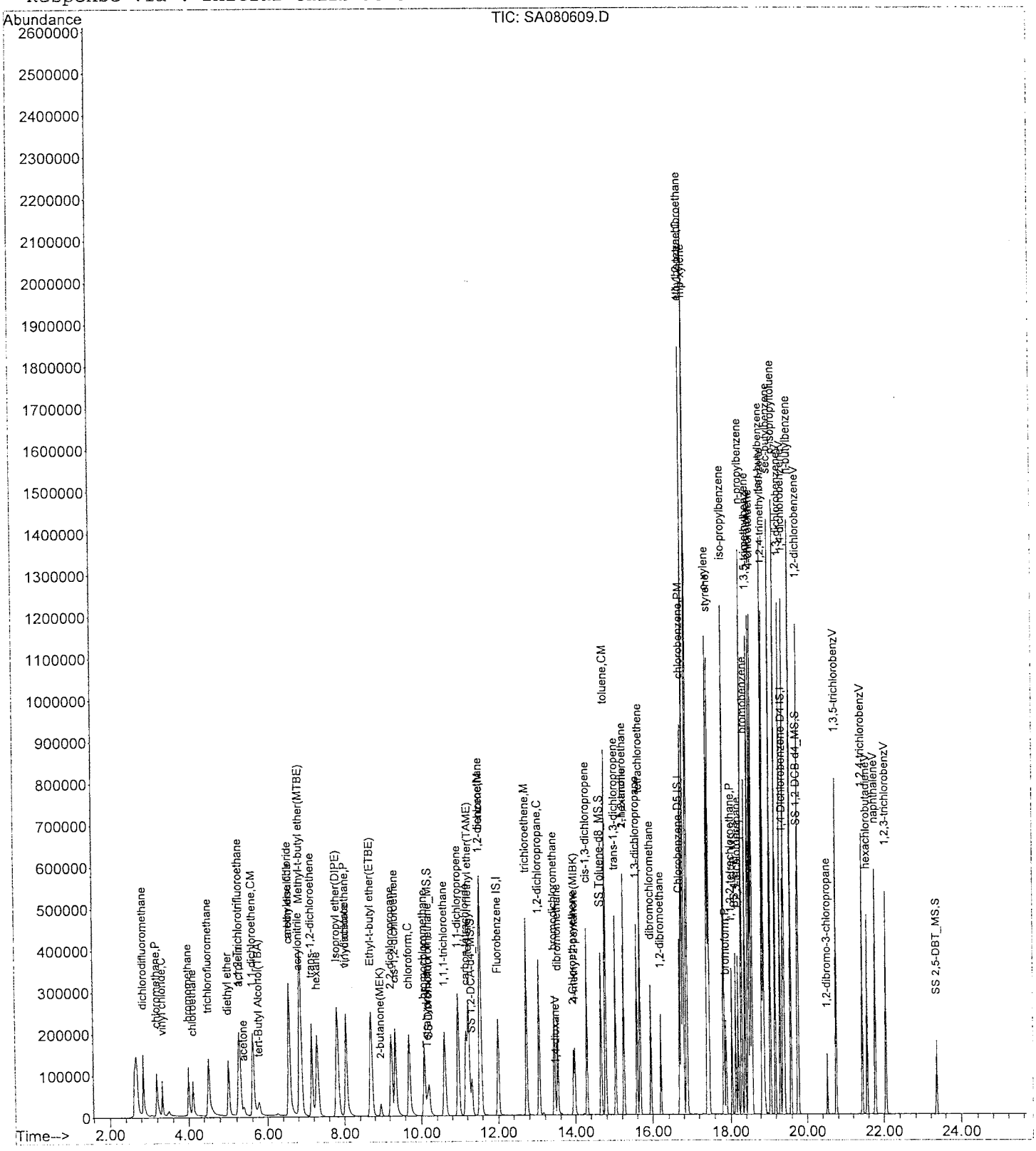
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	1,2-dichloroethane	11.53	62	229347	19.660 ug/L	100
39)	trichloroethene	12.73	95	193280	20.455 ug/L	95
40)	1,2-dichloropropane	13.05	63	169672	19.452 ug/L	96
41)	1,4-dioxaneV	13.48	88	3217	36.268 ug/L #	88
42)	dibromomethane	13.53	93	103838	20.549 ug/L #	98
43)	bromodichloromethane	13.44	83	214102	20.641 ug/L	99
44)	2-Chloroethoxyethene	13.95	63	71719	14.706 ug/L	94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	48492	17.239 ug/L	94
46)	cis-1,3-dichloropropene	14.30	75	257798	19.833 ug/L	94
49)	toluene	14.77	91	757600	19.957 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	244542	20.443 ug/L	94
51)	1,1,2-trichloroethane	15.25	83	119684	20.078 ug/L	97
52)	2-hexanone	15.25	43	81786	17.462 ug/L	98
53)	tetrachloroethene	15.67	166	200566	20.638 ug/L	98
54)	1,3-dichloropropane	15.59	76	254930	19.642 ug/L	95
55)	dibromochloromethane	15.95	129	160422	19.976 ug/L #	99
56)	1,2-dibromoethane	16.22	107	153194	20.168 ug/L #	98
57)	chlorobenzene	16.74	112	533100	20.571 ug/L	98
58)	1,1,1,2-tetrachloroethane	16.78	131	184207	23.835 ug/L	98
59)	ethylbenzene	16.79	91	895701	20.459 ug/L	98
60)	mp-xylene	16.89	106	734159	42.008 ug/L	95
61)	o-xylene	17.41	106	346921	20.520 ug/L	96
62)	styrene	17.46	104	569142	19.450 ug/L	98
63)	bromoform	17.88	173	94076	19.875 ug/L #	95
64)	iso-propylbenzene	17.82	105	831978	20.233 ug/L	98
67)	bromobenzene	18.38	156	227167	20.616 ug/L	95
68)	1,1,2,2-tetrachloroethane	18.03	83	159294	17.634 ug/L	98
69)	1,2,3-trichloropropane	18.20	110	56191	18.976 ug/L	95
71)	n-propylbenzene	18.28	91	1037490	19.476 ug/L	97
72)	2-chlorotoluene	18.51	91	639453	19.335 ug/L	96
73)	4-chlorotoluene	18.56	91	640894	19.176 ug/L	96
74)	1,3,5-trimethylbenzene	18.45	105	680691	17.976 ug/L	98
75)	tert-butylbenzene	18.84	119	661684	19.959 ug/L	97
76)	1,2,4-trimethylbenzene	18.89	105	668388	17.129 ug/L	98
77)	sec-butylbenzene	19.06	105	927281	19.777 ug/L	98
78)	1,3-dichlorobenzeneV	19.32	146	431025	20.810 ug/L	98
79)	p-isopropyltoluene	19.19	119	802110	19.938 ug/L	98
80)	1,4-dichlorobenzeneV	19.42	146	428272	20.544 ug/L	97
81)	1,2-dichlorobenzeneV	19.78	146	397345	20.397 ug/L	98
82)	n-butylbenzene	19.58	91	656964	18.958 ug/L	98
84)	1,2-dibromo-3-chloropropan	20.52	157	32453	18.569 ug/L	98
85)	1,3,5-trichlorobenzV	20.75	180	244917	19.682 ug/L	99
86)	1,2,4-trichlorobenzV	21.44	180	208669	19.578 ug/L	98
87)	hexachlorobutadieneV	21.56	225	92291	19.126 ug/L	96
88)	naphthaleneV	21.76	128	494463	18.169 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	180192	19.337 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:15 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331102	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	250410	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	138371	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	76859	10.36	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.56%			
35) SS 1,2-DCA-d4_MS	11.33	65	90270	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.01%			
48) SS Toluene-d8_MS	14.65	98	318782	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%			
65) SS 4-BFB_MS	18.13	95	125982	9.79	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.87%			
83) SS 1,2-DCB-d4_MS	19.75	152	132181	10.34	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.38%			
90) SS 2,5-DBT_MS	23.36	250	146023	52.65	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 131.62%#			
Target Compounds						Qvalue
8) diethyl ether	5.01	59	324027	56.905	ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	473031	59.290	ug/L	98
11) acetone	5.38	43	89768	48.345	ug/L	94
12) 1,1-dichloroethene	5.61	96	423876	60.544	ug/L	92
13) tert-Butyl Alcohol(TBA)	5.78	59	164913	250.220	ug/L #	100
15) methylene chloride	6.55	84	454435	59.648	ug/L	96
16) carbon disulfide	6.57	76	1159534	60.528	ug/L	99
17) acrylonitrile	6.81	53	146222	50.421	ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	2293661	106.789	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	424858	51.376	ug/L	96
20) hexane	7.29	57	534314	45.824	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	1297148	50.144	ug/L	98
23) 1,1-dichloroethane	8.04	63	744164	49.533	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	1203991	46.961	ug/L	97
25) 2,2-dichloropropane	9.25	77	636475	50.178	ug/L	98
26) cis-1,2-dichloroethene	9.36	61	574724	48.277	ug/L	97
27) 2-butanone(MEK)	8.96	43	146064	41.772	ug/L	99
28) bromochloromethane	10.08	128	231317	52.999	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	95804	45.864	ug/L	100
30) chloroform	9.71	83	749236	49.957	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	674477	51.702	ug/L	99
33) carbon tetrachloride	11.17	117	616213	57.502	ug/L	98
34) 1,1-dichloropropene	10.97	75	631116	48.608	ug/L	95
36) tert-amyl methyl ether(TAM	11.24	73	1170905	50.843	ug/L	97
37) benzene	11.56	78	1848728	50.582	ug/L	98
38) 1,2-dichloroethane	11.53	62	587726	49.128	ug/L	100
39) trichloroethene	12.73	95	501409	51.744	ug/L	93
40) 1,2-dichloropropane	13.05	63	443101	49.535	ug/L	97
42) dibromomethane	13.53	93	272163	52.519	ug/L #	98
43) bromodichloromethane	13.44	83	580083	54.533	ug/L	98
45) 4-methyl-2-pentanone(MIBK)	13.98	58	127298	44.130	ug/L	91
46) cis-1,3-dichloropropene	14.30	75	691448	51.871	ug/L	95
49) toluene	14.77	91	1995475	50.661	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:15:56 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

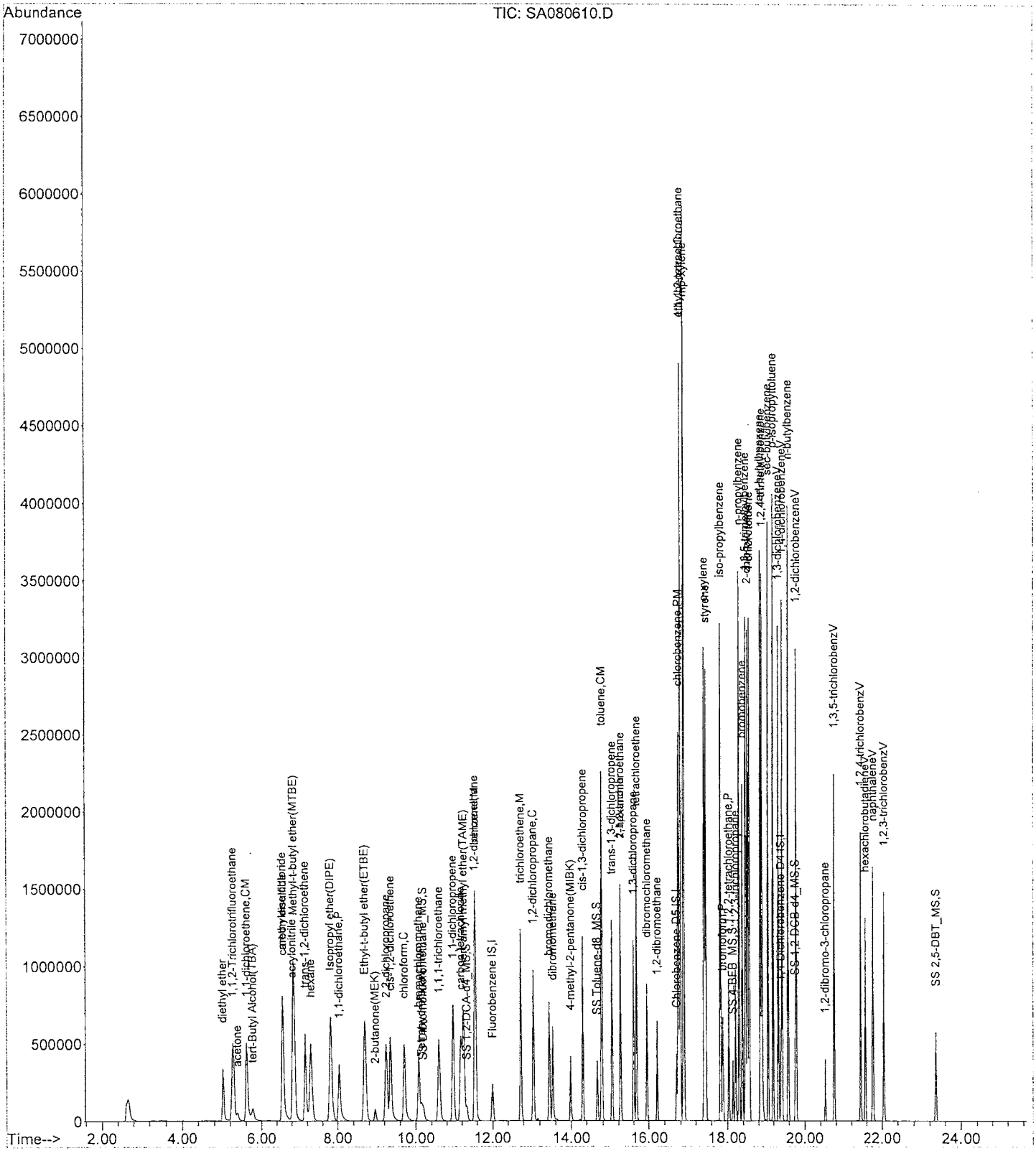
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	674089	54.308	ug/L		96
51)	1,1,2-trichloroethane	15.25	83	314320	50.818	ug/L		97
52)	2-hexanone	15.25	43	217045	44.661	ug/L		99
53)	tetrachloroethene	15.67	166	532594	52.817	ug/L		99
54)	1,3-dichloropropane	15.60	76	670112	49.759	ug/L		97
55)	dibromochloromethane	15.95	129	463298	52.872	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	408417	51.821	ug/L	#	98
57)	chlorobenzene	16.74	112	1424693	52.982	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.79	131	518188	64.619	ug/L		99
59)	ethylbenzene	16.79	91	2401851	52.873	ug/L		97
60)	mp-xylene	16.89	106	1987578	109.606	ug/L		93
61)	o-xylene	17.41	106	932780	53.174	ug/L		95
62)	styrene	17.46	104	1542129	50.792	ug/L		97
63)	bromoform	17.88	173	282056	53.254	ug/L		96
64)	iso-propylbenzene	17.83	105	2243422	52.581	ug/L		98
67)	bromobenzene	18.38	156	615871	53.937	ug/L		93
68)	1,1,2,2-tetrachloroethane	18.03	83	428345	45.762	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	147834	48.180	ug/L		95
71)	n-propylbenzene	18.28	91	2764917	50.090	ug/L		96
72)	2-chlorotoluene	18.51	91	1701528	49.651	ug/L		95
73)	4-chlorotoluene	18.56	91	1721385	49.704	ug/L		95
74)	1,3,5-trimethylbenzene	18.46	105	1938811	49.411	ug/L		97
75)	tert-butylbenzene	18.84	119	1801252	52.433	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	1946861	48.148	ug/L		98
77)	sec-butylbenzene	19.06	105	2518151	51.829	ug/L		98
78)	1,3-dichlorobenzeneV	19.32	146	1174081	54.704	ug/L		97
79)	p-isopropyltoluene	19.19	119	2202559	52.835	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	1167232	54.035	ug/L		94
81)	1,2-dichlorobenzeneV	19.77	146	1083413	53.670	ug/L		94
82)	n-butylbenzene	19.58	91	1805340	50.276	ug/L		98
84)	1,2-dibromo-3-chloropropan	20.52	157	94583	52.227	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	680226	52.754	ug/L		99
86)	1,2,4-trichlorobenzV	21.44	180	576646	52.211	ug/L		99
87)	hexachlorobutadieneV	21.56	225	254217	50.842	ug/L		97
88)	naphthaleneV	21.76	128	1389617	49.275	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	498022	51.575	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:17:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

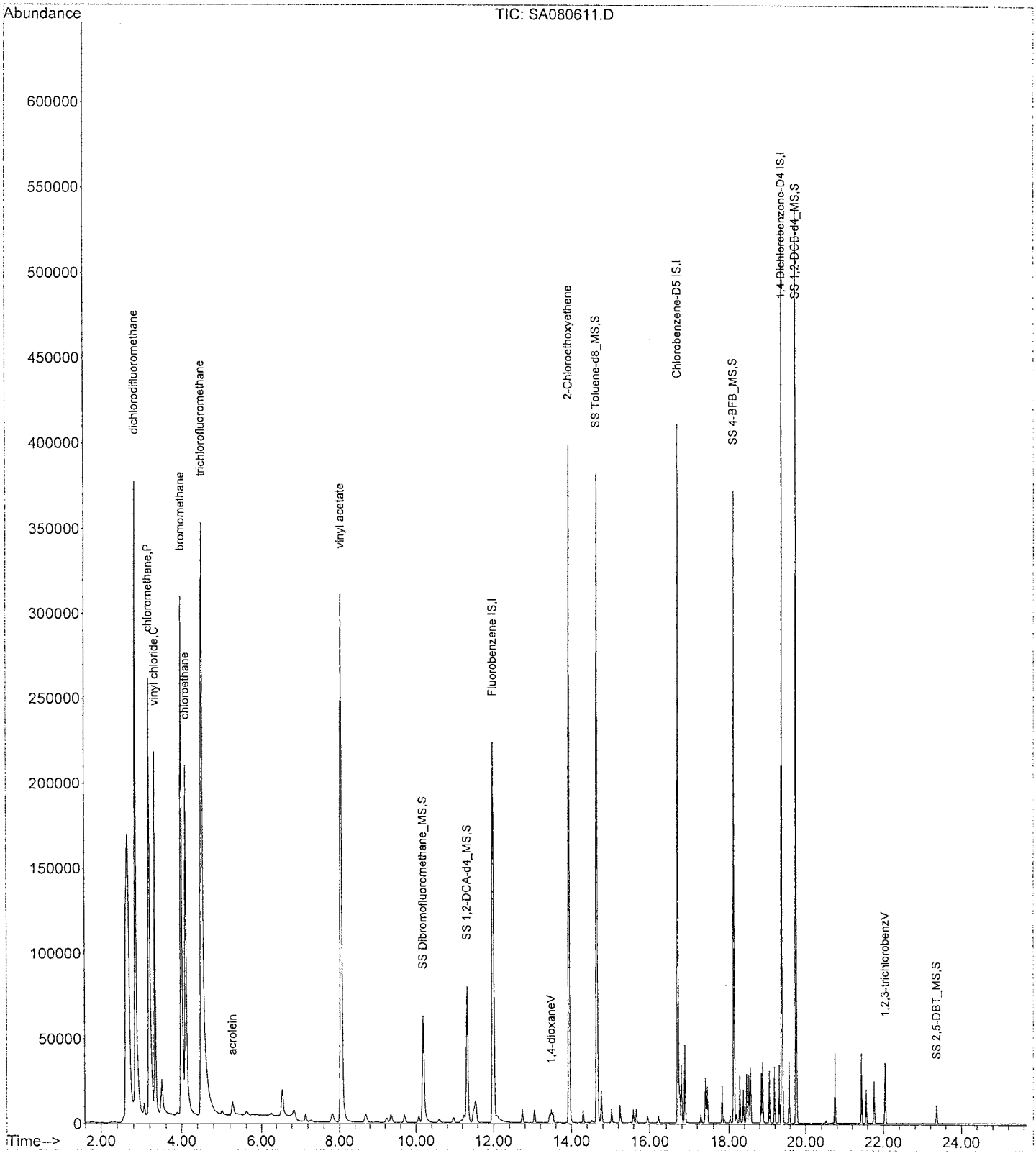
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	313742	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	233790	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	124513	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	71405	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.54%			
35) SS 1,2-DCA-d4_MS	11.33	65	86445	10.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.07%			
48) SS Toluene-d8_MS	14.65	98	304108	10.12	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.21%			
65) SS 4-BFB_MS	18.13	95	116323	9.68	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.79%			
83) SS 1,2-DCB-d4_MS	19.75	152	116932	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	2847	3.94	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 9.86%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	504172	49.189	ug/L	100
3) chloromethane	3.19	50	468249	52.537	ug/L	99
4) vinyl chloride	3.33	62	229297	33.185	ug/L	100
5) bromomethane	3.99	94	315852	60.858	ug/L	98
6) chloroethane	4.11	64	282219	59.819	ug/L	98
7) trichlorofluoromethane	4.52	101	661686	58.052	ug/L	99
10) acrolein	5.27	56	14489	16.558	ug/L	88
22) vinyl acetate	8.05	43	764933	80.032	ug/L	100
41) 1,4-dioxaneV	13.48	88	7694m	89.265	ug/L	
44) 2-Chloroethoxyethene	13.95	63	188360	39.746	ug/L	96
89) 1,2,3-trichlorobenzV	22.05	180	12069	1.389	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:26 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331654	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	253138	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142723	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	76563	10.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.99%			
35) SS 1,2-DCA-d4_MS	11.33	65	88376	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.75%			
48) SS Toluene-d8_MS	14.66	98	323672	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%			
65) SS 4-BFB_MS	18.13	95	128735	9.89	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 98.93%			
83) SS 1,2-DCB-d4_MS	19.75	152	133827	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
90) SS 2,5-DBT_MS	23.36	250	307494	104.50	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 261.26%#			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	653626	114.598	ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.27	101	954722	119.466	ug/L	97
11) acetone	5.38	43	192085	111.158	ug/L	96
12) 1,1-dichloroethene	5.61	96	861104	122.790	ug/L	91
13) tert-Butyl Alcohol(TBA)	5.83	59	340440	515.686	ug/L #	100
15) methylene chloride	6.55	84	916932	120.154	ug/L	95
16) carbon disulfide	6.57	76	2408564	125.518	ug/L	99
17) acrylonitrile	6.82	53	294486	101.376	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	4599642	213.795	ug/L	96
19) trans-1,2-dichloroethene	7.15	96	877469	105.931	ug/L	95
20) hexane	7.29	57	1116565	95.600	ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	2642544	101.984	ug/L	98
23) 1,1-dichloroethane	8.04	63	1519610	100.979	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	2473473	96.315	ug/L	97
25) 2,2-dichloropropane	9.25	77	1346660	105.990	ug/L	100
26) cis-1,2-dichloroethene	9.36	61	1165887	97.773	ug/L	96
27) 2-butanone(MEK)	8.96	43	305075	87.102	ug/L	99
28) bromochloromethane	10.08	128	477487	109.220	ug/L	94
29) Tetrahydrofuran(THF)	10.15	42	197413	94.349	ug/L	100
30) chloroform	9.71	83	1540866	102.570	ug/L	99
32) 1,1,1-trichloroethane	10.59	97	1387099	106.151	ug/L	99
33) carbon tetrachloride	11.17	117	1291747	120.338	ug/L	99
34) 1,1-dichloropropene	10.97	75	1294359	99.524	ug/L	96
36) tert-amyl methyl ether(TAM	11.24	73	2428997	105.296	ug/L	97
37) benzene	11.56	78	3844569	105.013	ug/L	97
38) 1,2-dichloroethane	11.53	62	1175844	98.125	ug/L	99
39) trichloroethene	12.73	95	1052972	108.483	ug/L	93
40) 1,2-dichloropropane	13.05	63	911141	101.688	ug/L	98
42) dibromomethane	13.53	93	563981	108.651	ug/L	97
43) bromodichloromethane	13.44	83	1220579	114.555	ug/L	99
45) 4-methyl-2-pentanone(MIBK)	13.99	58	267008	92.408	ug/L	93
46) cis-1,3-dichloropropene	14.30	75	1467654	109.917	ug/L	97
49) toluene	14.77	91	4208033	105.681	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:18:08 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

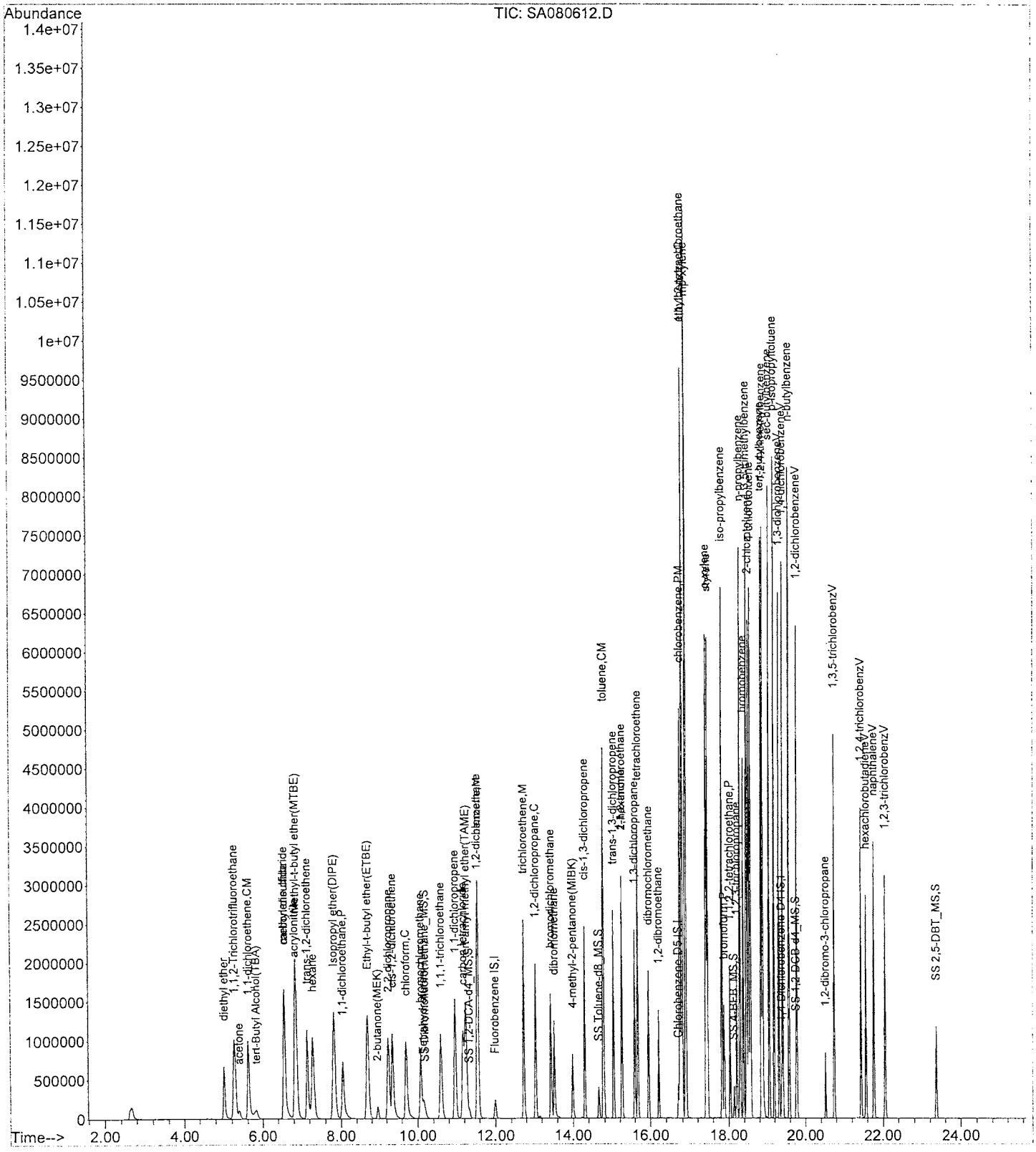
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.03	75	1445331	115.189	ug/L		97
51)	1,1,2-trichloroethane	15.25	83	669054	107.004	ug/L		97
52)	2-hexanone	15.25	43	442409	90.052	ug/L		99
53)	tetrachloroethene	15.67	166	1140843	111.917	ug/L		99
54)	1,3-dichloropropane	15.60	76	1394543	102.436	ug/L		100
55)	dibromochloromethane	15.95	129	1023813	113.764	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	867603	108.896	ug/L	#	98
57)	chlorobenzene	16.74	112	3018005	111.025	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	1092453	134.763	ug/L		99
59)	ethylbenzene	16.79	91	4993389	108.737	ug/L		97
60)	mp-xylene	16.89	106	4054705	221.188	ug/L		92
61)	o-xylene	17.42	106	1988257	112.121	ug/L		94
62)	styrene	17.46	104	3286856	107.090	ug/L		97
63)	bromoform	17.89	173	635608	115.999	ug/L		97
64)	iso-propylbenzene	17.83	105	4706635	109.125	ug/L		97
67)	bromobenzene	18.38	156	1319756	112.059	ug/L		91
68)	1,1,2,2-tetrachloroethane	18.03	83	884728	91.637	ug/L		98
69)	1,2,3-trichloropropane	18.21	110	315513	99.692	ug/L		94
71)	n-propylbenzene	18.29	91	5778337	101.490	ug/L		95
72)	2-chlorotoluene	18.51	91	3549325	100.412	ug/L		95
73)	4-chlorotoluene	18.56	91	3633211	101.707	ug/L		94
74)	1,3,5-trimethylbenzene	18.46	105	4166312	102.942	ug/L		97
75)	tert-butylbenzene	18.84	119	3776172	106.569	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	4202148	100.755	ug/L		97
77)	sec-butylbenzene	19.06	105	5204067	103.846	ug/L		97
78)	1,3-dichlorobenzeneV	19.32	146	2521009	113.880	ug/L		95
79)	p-isopropyltoluene	19.19	119	4569773	106.278	ug/L		97
80)	1,4-dichlorobenzeneV	19.42	146	2517031	112.968	ug/L	#	92
81)	1,2-dichlorobenzeneV	19.78	146	2312287	111.053	ug/L	#	93
82)	n-butylbenzene	19.58	91	3766931	101.705	ug/L		97
84)	1,2-dibromo-3-chloropropan	20.52	157	202582	108.452	ug/L		97
85)	1,3,5-trichlorobenzV	20.75	180	1467245	110.320	ug/L		98
86)	1,2,4-trichlorobenzV	21.44	180	1247600	109.516	ug/L		98
87)	hexachlorobutadieneV	21.56	225	553942	107.408	ug/L		97
88)	naphthaleneV	21.76	128	3000156	103.141	ug/L		100
89)	1,2,3-trichlorobenzV	22.05	180	1066196	107.048	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:19 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:19:25 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

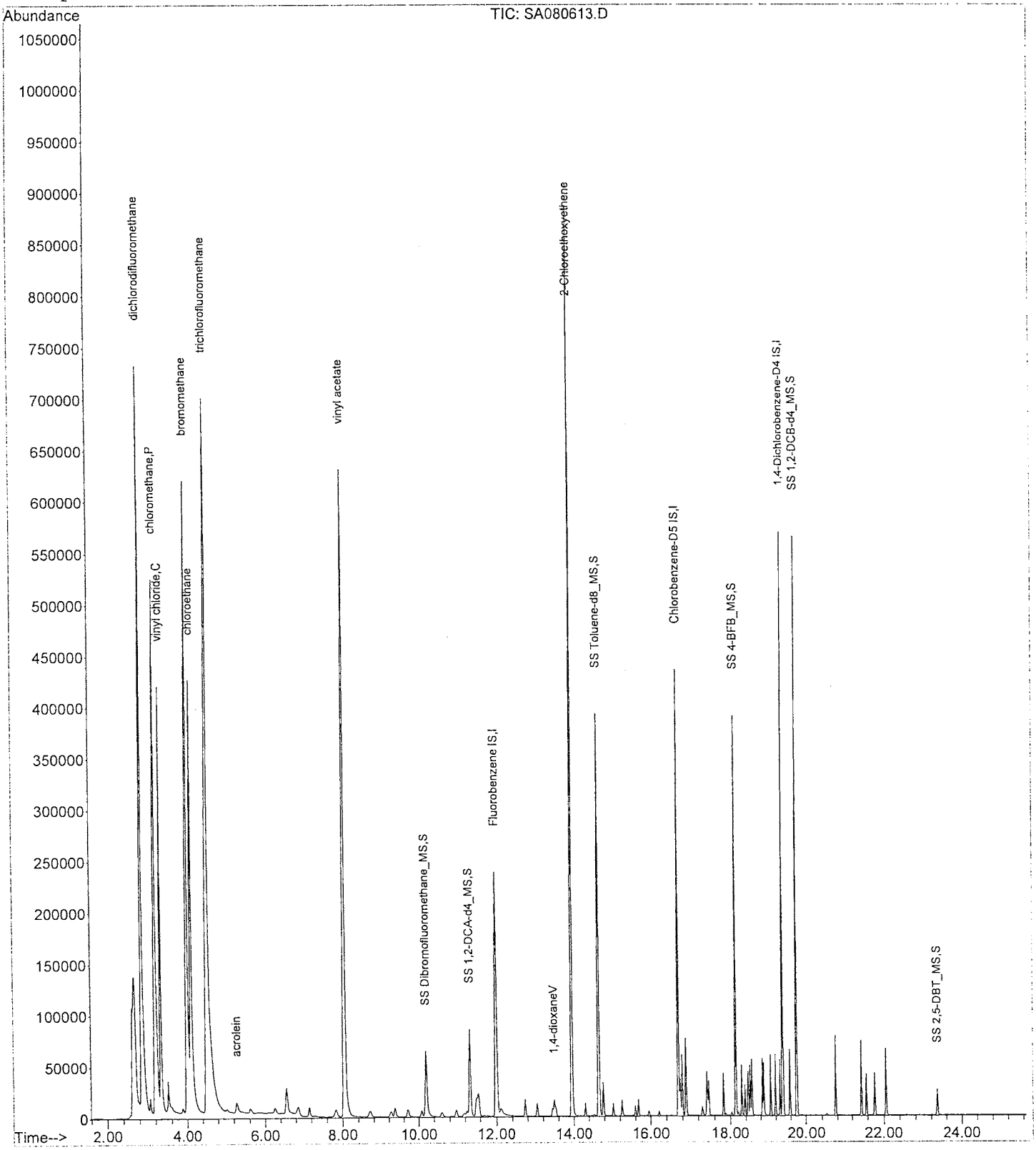
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	338403	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248910	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130705	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73710	9.72	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.18%			
35) SS 1,2-DCA-d4_MS	11.32	65	92429	10.02	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.19%			
48) SS Toluene-d8_MS	14.65	98	324602	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.47%			
65) SS 4-BFB_MS	18.13	95	122535	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.76%			
83) SS 1,2-DCB-d4_MS	19.75	152	122462	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.40%			
90) SS 2,5-DBT_MS	23.36	250	6402	5.18	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 12.94%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	1096182	99.154	ug/L	100
3) chloromethane	3.19	50	978455	101.782	ug/L	99
4) vinyl chloride	3.33	62	460879	61.839	ug/L	99
5) bromomethane	3.99	94	692398	123.689	ug/L	99
6) chloroethane	4.10	64	602931	118.483	ug/L	98
7) trichlorofluoromethane	4.52	101	1413521	114.975	ug/L	100
10) acrolein	5.27	56	18699	19.812	ug/L	88
22) vinyl acetate	8.05	43	1555483	150.885	ug/L	99
41) 1,4-dioxaneV	13.48	88	15891m	170.930	ug/L	
44) 2-Chloroethoxyethene	13.95	63	421679	82.494	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:20 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	327192	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	254244	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	142553	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	76305	10.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.04%			
35) SS 1,2-DCA-d4_MS	11.33	65	87322	9.79	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.90%			
48) SS Toluene-d8_MS	14.66	98	320954	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.23%			
65) SS 4-BFB_MS	18.13	95	127058	9.72	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.22%			
83) SS 1,2-DCB-d4_MS	19.76	152	133877	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.63%			
90) SS 2,5-DBT_MS	23.36	250	690077	231.23	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 578.08%#			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	1309272	232.680	ug/L	96
9) 1,1,2-Trichlorotrifluoroet	5.26	101	1905415	241.680	ug/L	97
11) acetone	5.39	43	368713	222.842	ug/L	94
12) 1,1-dichloroethene	5.61	96	1723985	249.185	ug/L	90
13) tert-Butyl Alcohol(TBA)	5.89	59	681225m	1045.966	ug/L	
15) methylene chloride	6.54	84	1823761	242.243	ug/L	94
16) carbon disulfide	6.57	76	4805220	253.831	ug/L	99
17) acrylonitrile	6.82	53	583465	203.596	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	9151982	431.193	ug/L	96
19) trans-1,2-dichloroethene	7.15	96	1803073	220.641	ug/L	93
20) hexane	7.29	57	2219415	192.617	ug/L	98
21) Isopropyl ether(DIPE)	7.83	45	5293433	207.076	ug/L	98
23) 1,1-dichloroethane	8.04	63	3068923	206.714	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	5043568	199.071	ug/L	96
25) 2,2-dichloropropane	9.25	77	2709552	216.166	ug/L	98
26) cis-1,2-dichloroethene	9.35	61	2355579	200.235	ug/L	95
27) 2-butanone(MEK)	8.97	43	614168	177.743	ug/L	98
28) bromochloromethane	10.08	128	997240	231.218	ug/L	92
29) Tetrahydrofuran(THF)	10.15	42	401919	194.708	ug/L	99
30) chloroform	9.71	83	3148637	212.453	ug/L	99
32) 1,1,1-trichloroethane	10.59	97	2884369	223.743	ug/L	98
33) carbon tetrachloride	11.17	117	2717438	256.607	ug/L	99
34) 1,1-dichloropropene	10.97	75	2649160	206.473	ug/L	97
36) tert-amyl methyl ether(TAM	11.25	73	5062883	222.467	ug/L	95
37) benzene	11.56	78	7870492	217.912	ug/L	97
38) 1,2-dichloroethane	11.54	62	2313244	195.673	ug/L	99
39) trichloroethene	12.73	95	2205648	230.336	ug/L	92
40) 1,2-dichloropropane	13.05	63	1880341	212.718	ug/L	98
42) dibromomethane	13.53	93	1161373	226.789	ug/L	97
43) bromodichloromethane	13.44	83	2567154	244.221	ug/L	99
45) 4-methyl-2-pentanone(MIBK)	14.00	58	542993	190.486	ug/L	94
46) cis-1,3-dichloropropene	14.31	75	3067826	232.892	ug/L	97
49) toluene	14.77	91	8459139	211.520	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:20:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

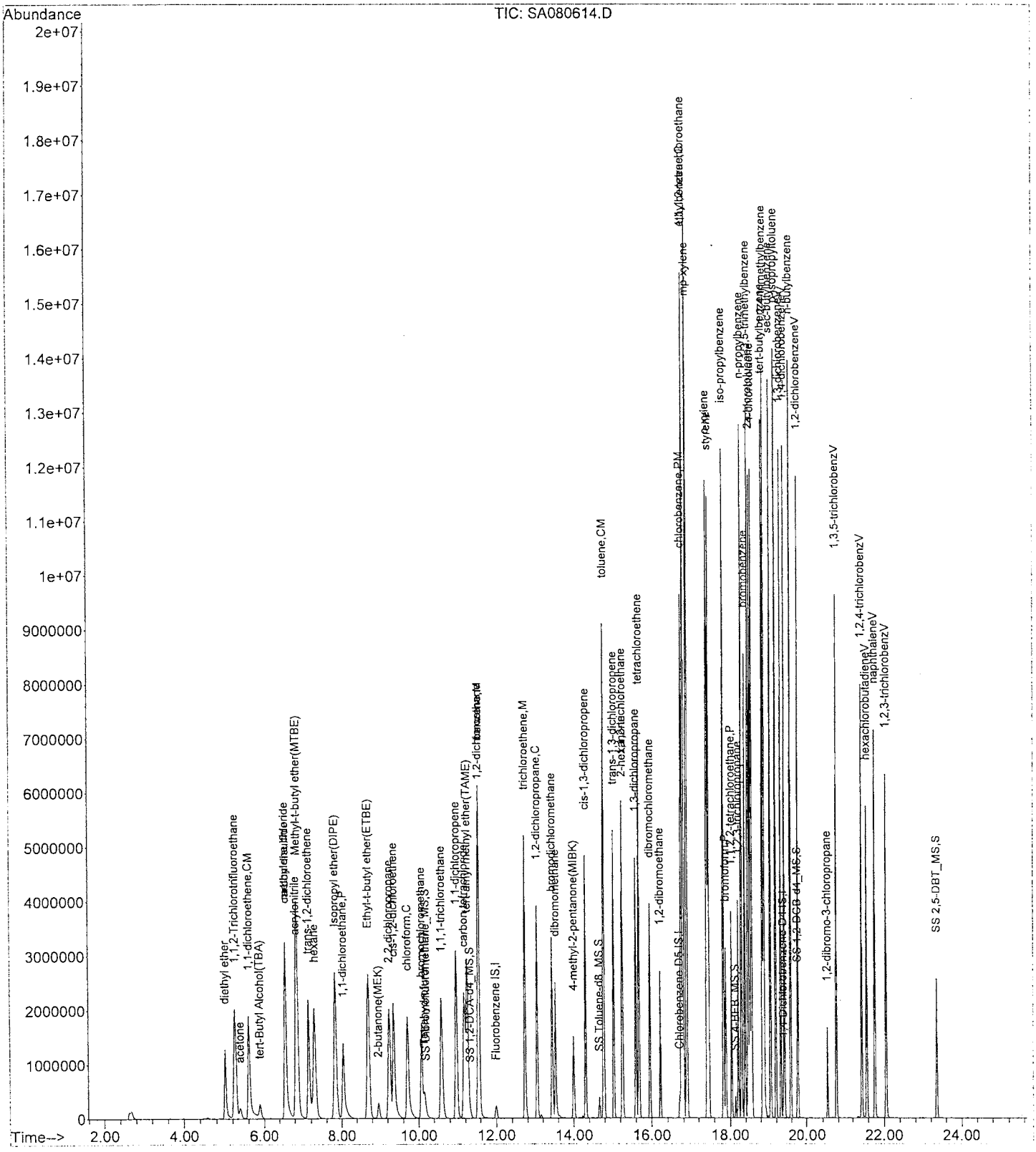
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	trans-1,3-dichloropropene	15.04	75	2961679	235.010	ug/L		96
51)	1,1,2-trichloroethane	15.25	83	1387610	220.959	ug/L		95
52)	2-hexanone	15.27	43	860543	174.401	ug/L		97
53)	tetrachloroethene	15.67	166	2335767	228.142	ug/L		97
54)	1,3-dichloropropane	15.60	76	2860234	209.184	ug/L		96
55)	dibromochloromethane	15.95	129	2166303	237.976	ug/L	#	99
56)	1,2-dibromoethane	16.22	107	1774947	221.812	ug/L	#	99
57)	chlorobenzene	16.75	112	6069844	222.323	ug/L		95
58)	1,1,1,2-tetrachloroethane	16.79	131	1994554	244.974	ug/L		99
59)	ethylbenzene	16.80	91	8860415	192.107	ug/L		95
60)	mp-xylene	16.89	106	6772390	367.834	ug/L		90
61)	o-xylene	17.42	106	3928577	220.575	ug/L		92
62)	styrene	17.46	104	6416758	208.157	ug/L		96
63)	bromoform	17.89	173	1345493	242.038	ug/L	#	97
64)	iso-propylbenzene	17.83	105	8878323	204.951	ug/L		96
67)	bromobenzene	18.38	156	2668277	226.830	ug/L	#	89
68)	1,1,2,2-tetrachloroethane	18.04	83	1754702	181.962	ug/L		99
69)	1,2,3-trichloropropane	18.21	110	637917	201.802	ug/L		91
71)	n-propylbenzene	18.29	91	10490556	184.475	ug/L		91
72)	2-chlorotoluene	18.52	91	6867562	194.518	ug/L		93
73)	4-chlorotoluene	18.56	91	6742966	188.987	ug/L		93
74)	1,3,5-trimethylbenzene	18.47	105	7908227	195.631	ug/L		97
75)	tert-butylbenzene	18.85	119	7044956	199.056	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	7844188	188.304	ug/L		97
77)	sec-butylbenzene	19.06	105	9402855	187.855	ug/L	#	96
78)	1,3-dichlorobenzeneV	19.32	146	4815825	217.802	ug/L	#	95
79)	p-isopropyltoluene	19.19	119	8104355	188.705	ug/L		96
80)	1,4-dichlorobenzeneV	19.42	146	4783293	214.938	ug/L	#	91
81)	1,2-dichlorobenzeneV	19.78	146	4452379	214.090	ug/L	#	92
82)	n-butylbenzene	19.58	91	6890529	186.262	ug/L	#	95
84)	1,2-dibromo-3-chloropropan	20.52	157	426363	228.525	ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	2960463	222.859	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	2597910	228.319	ug/L		97
87)	hexachlorobutadieneV	21.56	225	1153357	223.900	ug/L		97
88)	naphthaleneV	21.77	128	6237033	214.675	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	2249114	226.085	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080614.D Vial: 14
Acq On : 6 Aug 2012 3:31 pm Operator: BAM
Sample : 200 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:21 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:21:48 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

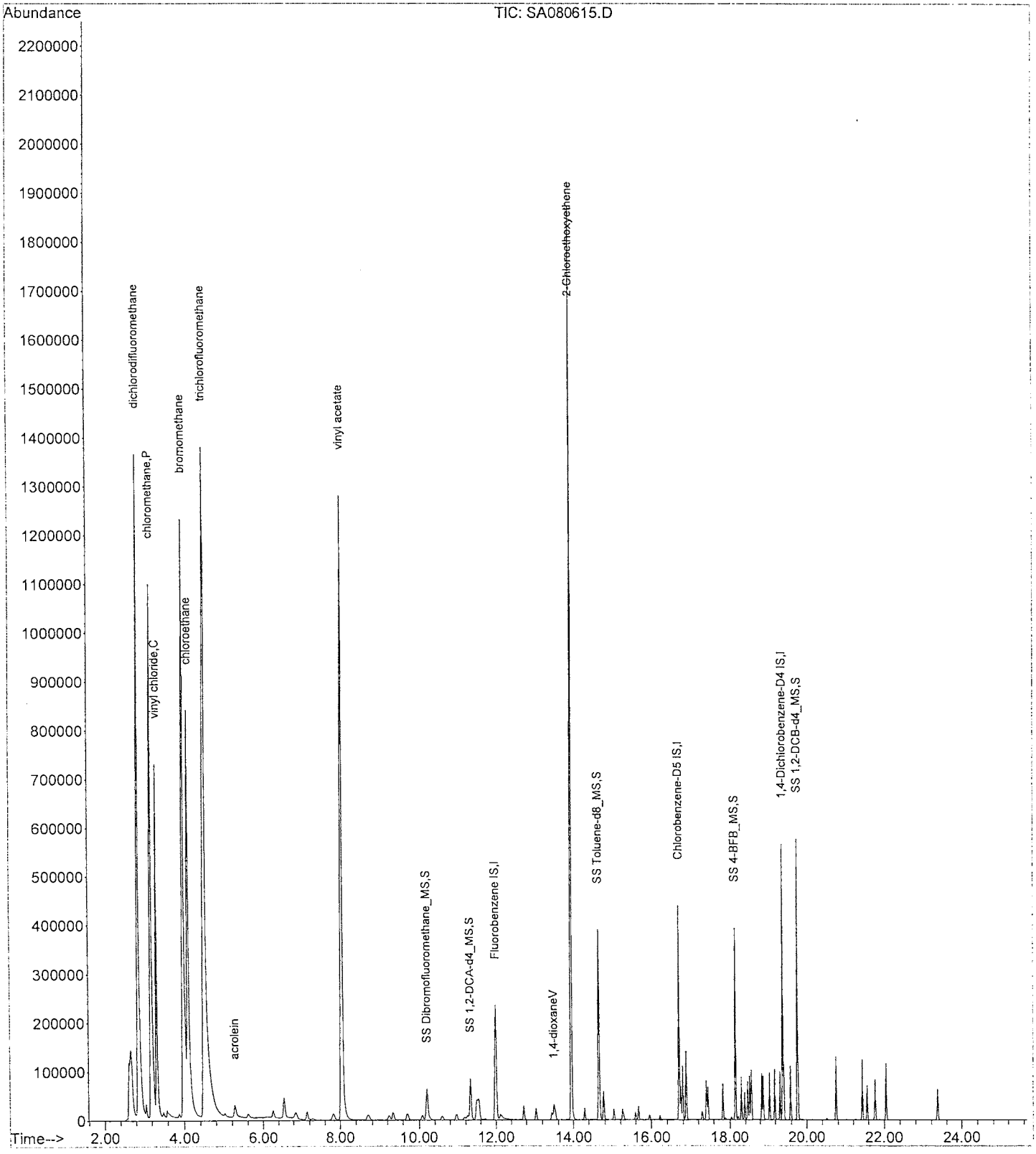
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	336112	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251329	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130239	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	73409	9.74	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.44%			
35) SS 1,2-DCA-d4_MS	11.32	65	92313	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.75%			
48) SS Toluene-d8_MS	14.65	98	321368	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.49%			
65) SS 4-BFB_MS	18.13	95	123550	9.56	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.63%			
83) SS 1,2-DCB-d4_MS	19.75	152	122712	10.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.97%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	2215576	201.773	ug/L	99
3) chloromethane	3.19	50	1949346	204.160	ug/L	99
4) vinyl chloride	3.32	62	847787	114.529	ug/L	100
5) bromomethane	3.98	94	1417928	255.022	ug/L	99
6) chloroethane	4.10	64	1215808	240.549	ug/L	98
7) trichlorofluoromethane	4.51	101	2821940	231.100	ug/L	99
10) acrolein	5.27	56	45900	48.964	ug/L	88
22) vinyl acetate	8.05	43	3161029	308.715	ug/L	98
41) 1,4-dioxaneV	13.49	88	32796	355.171	ug/L	90
44) 2-Chloroethoxyethene	13.95	63	929800	183.138	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080615.D Vial: 15
Acq On : 6 Aug 2012 4:05 pm Operator: BAM
Sample : 200 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:22 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:24:10 2012 Quant Results File: 5VID0806.RES

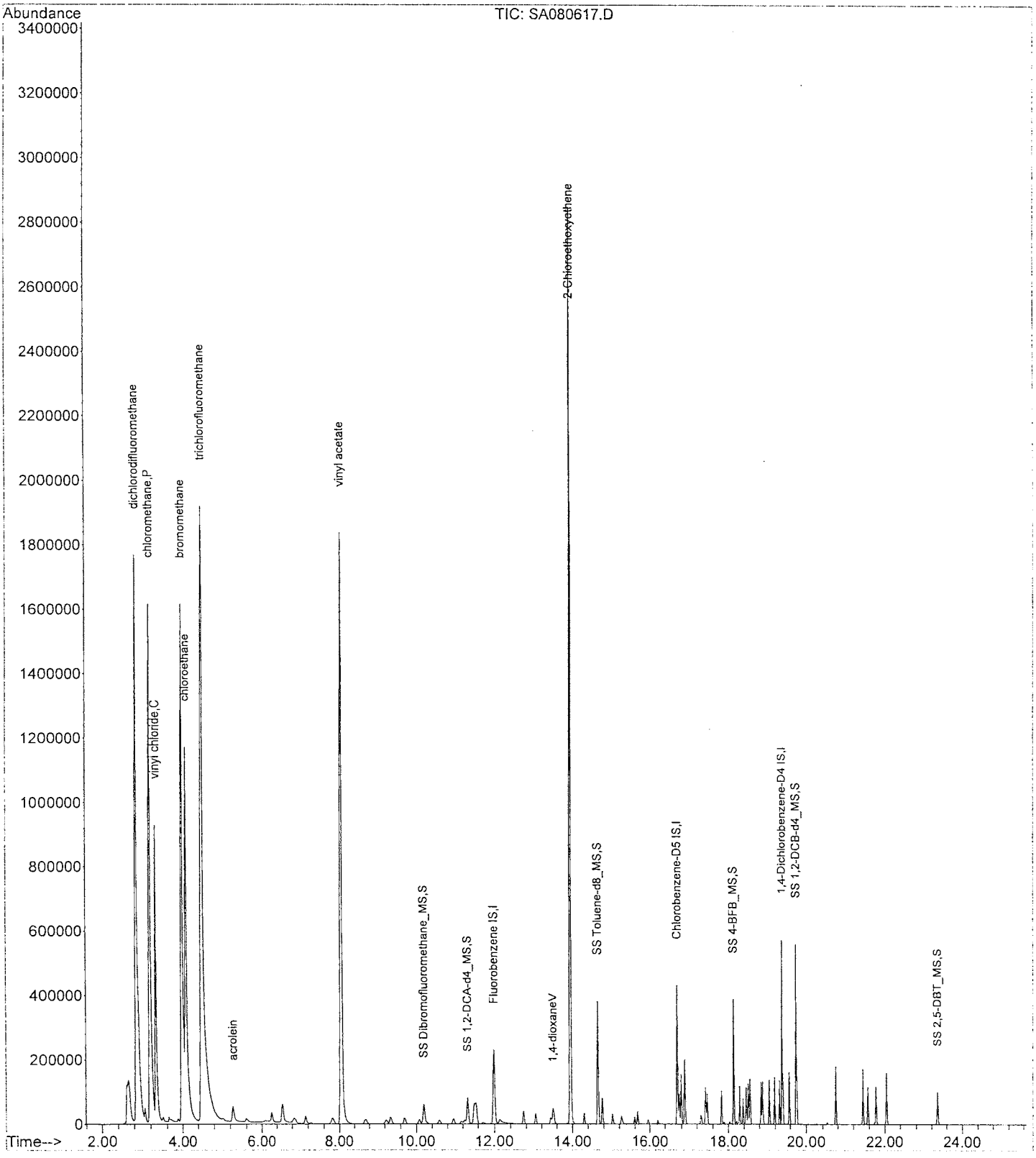
Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	330386	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	248192	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	130620	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70329	9.50	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.97%			
35) SS 1,2-DCA-d4_MS	11.32	65	88502	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.26%			
48) SS Toluene-d8_MS	14.65	98	315982	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.06%			
65) SS 4-BFB_MS	18.13	95	122190	9.58	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.77%			
83) SS 1,2-DCB-d4_MS	19.75	152	121780	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			
90) SS 2,5-DBT_MS	23.36	250	25597	12.11	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 30.27%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.84	85	3293119	305.103	ug/L	99
3) chloromethane	3.19	50	2854514	304.142	ug/L	99
4) vinyl chloride	3.32	62	1117345	153.560	ug/L	100
5) bromomethane	3.98	94	2059715	376.872	ug/L	99
6) chloroethane	4.09	64	1776518	357.578	ug/L	98
7) trichlorofluoromethane	4.51	101	4062214	338.437	ug/L	99
10) acrolein	5.27	56	81169	88.088	ug/L	91
22) vinyl acetate	8.05	43	4614823	458.508	ug/L	97
41) 1,4-dioxaneV	13.50	88	50371	554.957	ug/L	91
44) 2-Chloroethoxyethene	13.95	63	1457963	292.144	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : W:\1\DATA\AUG12\AUG0612\SA080617.D Vial: 17
Acq On : 6 Aug 2012 5:14 pm Operator: BAM
Sample : 300 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:24 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 10:25:10 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Wed May 16 08:06:54 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

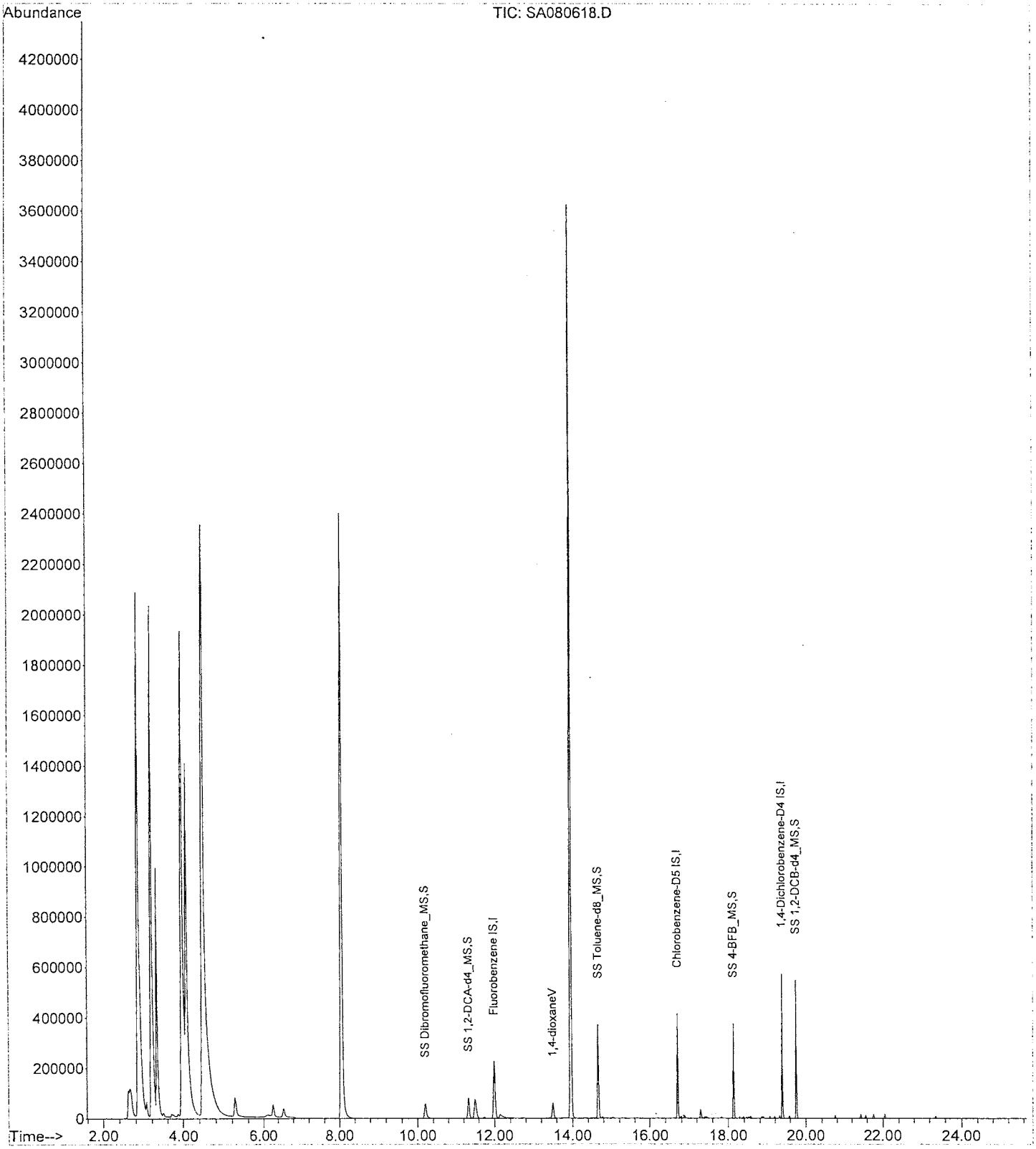
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	332477	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	251955	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	128566	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	70172	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.16%			
35) SS 1,2-DCA-d4_MS	11.32	65	89597	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.85%			
48) SS Toluene-d8_MS	14.66	98	321541	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
65) SS 4-BFB_MS	18.13	95	122225	9.44	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.37%			
83) SS 1,2-DCB-d4_MS	19.75	152	121004	10.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.86%			
90) SS 2,5-DBT_MS	0.00	250	0d	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
41) 1,4-dioxaneV	13.51	88	68747	752.649	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\AUG12\AUG0612\SA080618.D Vial: 18
Acq On : 6 Aug 2012 5:48 pm Operator: BAM
Sample : 400 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 10:25 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Volatile Organics 8260B

Sample and QC Data

VOAMS5 Analysis Run Log

IS/SS ID= V- 3975
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3970 (G) 3963 (L)

Analyst: Blue

Date: 9/5/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A090501	BFB					VOCMS	5V1D0806	Auto Find		✓
2		STD2					VOCMS				✓
3		STD20					VOCMS		BM, Acrolein ↓		✓
4		MB					VOCMS				✓
5		113653.20		✓		x1	VOCMS				
6		.22		✓			VOCMS				
7		113714.01		✓			VOCMS				
8		113743.03		✓			VOCMS				
9		.04		✓			VOCMS				
10		.05		✓			VOCMS				
11		.06		✓			VOCMS				
12		.07		✓			VOCMS				
13		113715.01		✓			VOCMS				
14		.02		✓			VOCMS				
15		.03		✓			VOCMS				
16		113689.03		✓			VOCMS				
17		.06		✓			VOCMS				
18		.07		✓			VOCMS				
19		.11		✓			VOCMS				
20		LCS20					VOCMS			✓	✓
21		LCSD20					VOCMS			✓	✓
							VOCMS				
							VOCMS				
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Samples removed from autosampler, order and pH verified by Blue 9/6/12 1-21

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\SEPT0512\SA090501.D
Tune Time : 5 Sep 2012 7:42 am

Daily Calibration File : C:\MSDCHEM\1\DATA\SEPT0512\SA090503.D

							271470	211994	121817

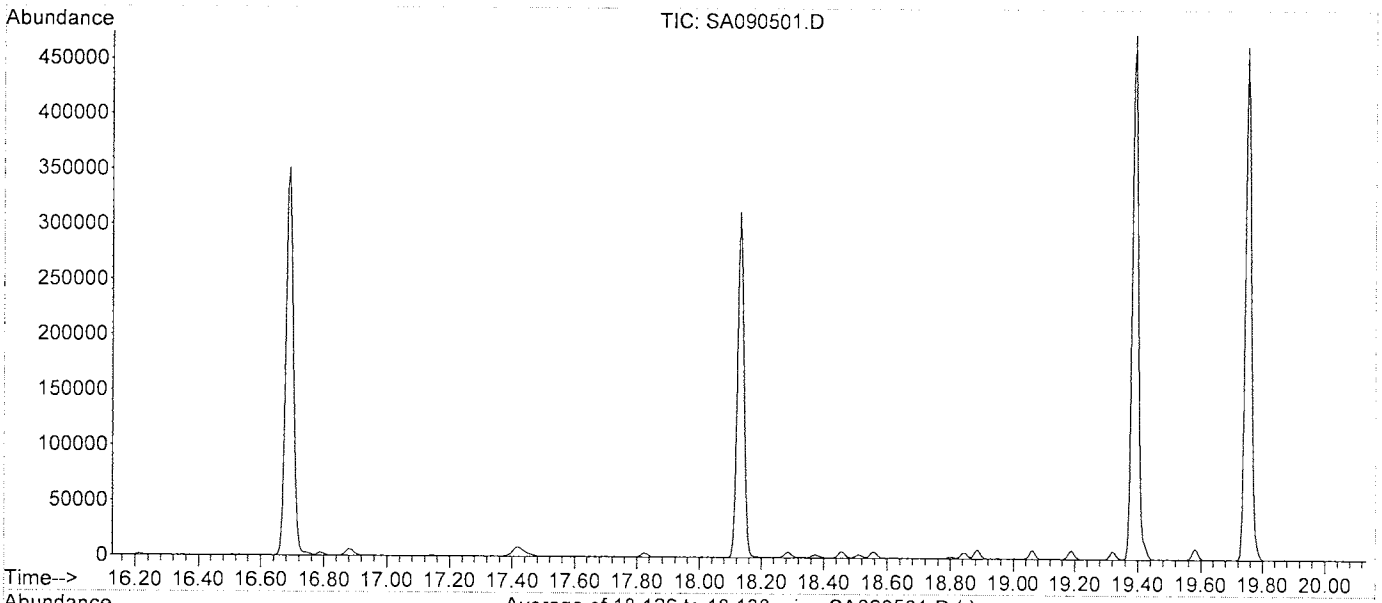
File	Sample	Surrogate Recovery %				Internal Standard Responses		
SA090502.D	STD 2	106	94	100	97	269300	206339	113053
		99	21*					
SA090503.D	STD 20	107	92	100	100	271470	211994	121817
		99	50*					
SA090504.D	MB	103	93	99	95	264916	203570	107192
		102	20*					
SA090505.D	113653.20	103	93	100	94	266037	204559	106903
		101	0*					
SA090506.D	113653.21	103	94	100	93	251235	194964	100622
		104	0*					
SA090507.D	113714.01	104	94	100	94	262185	202059	105346
		102	0*					
SA090508.D	113743.03	105	95	100	94	262271	203253	105197
		104	0*					
SA090509.D	113743.04	105	95	99	94	252744	196405	102670
		103	0*					
SA090510.D	113743.05	106	96	99	93	247780	195406	101281
		103	0*					
SA090511.D	113743.06	107	96	99	92	244988	192478	99506
		103	0*					
SA090512.D	113743.07	105	96	99	93	251905	195554	100118
		103	0*					
SA090513.D	113715.01	106	96	99	94	247013	193493	100470
		104	0*					
SA090514.D	113715.02	107	96	99	94	242760	189975	99786
		103	0*					
SA090515.D	113715.03	107	96	99	93	258786	203223	105900
		103	0*					
SA090516.D	113689.03	106	96	99	95	258676	201761	104940
		104	0*					
SA090517.D	113689.06	105	97	99	93	243261	189849	98243
		104	0*					
SA090518.D	113689.07	104	95	100	94	258251	200433	104903
		103	0*					
SA090519.D	113689.11	105	93	99	97	256376	198532	106087
		104	0*					
SA090520.D	LCS 20	109	94	99	102	255515	201783	117631
		99	0*					
SA090521.D	LCSD 20	106	94	100	100	263083	206767	118507
		99	0*					

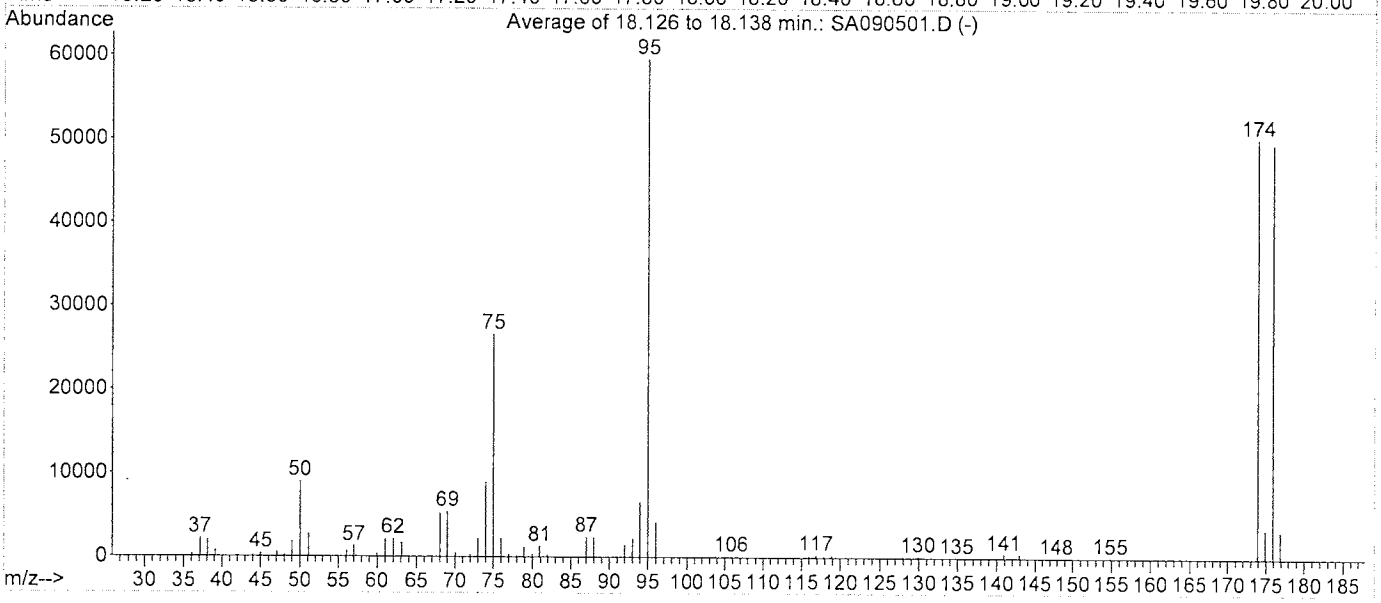
t - fails 12hr time check * - fails criteria

Created: Fri Sep 07 14:05:44 2012 VOAMS5

Data File : U:\1\DATA\SEPT0512\SA090501.D
Acq On : 5 Sep 2012 7:42 am
Sample : BFB
Misc : x1; 5mL;
MS Integration Params: rteint.p
Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012

Vial: 1
Operator: BAM
Inst : VOAMS5
Multiplr: 1.00





AutoFind: Scans 2720, 2721, 2722; Background Corrected with Scan 2712

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	9015	PASS
75	95	30	60	44.7	26669	PASS
95	95	100	100	100.0	59674	PASS
96	95	5	9	7.0	4154	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	50320	PASS
175	174	5	9	7.0	3516	PASS
176	174	95	101	98.5	49578	PASS
177	176	5	9	6.5	3210	PASS

SA090501.D 5VID0806.M Fri Sep 07 14:54:00 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	269300	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206339	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	113053	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane MS	10.19	111	64337	10.62	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.20%			
35) SS 1,2-DCA-d4 MS	11.33	65	68756	9.38	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.75%			
48) SS Toluene-d8 MS	14.65	98	263879	9.97	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.68%			
65) SS 4-BFB MS	18.13	95	100007	9.74	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 97.36%			
83) SS 1,2-DCB-d4 MS	19.75	152	105972	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.46%			
90) SS 2,5-DBT MS	23.36	250	1850	8.45	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 21.12%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	13668	1.536	ug/L	99
3) chloromethane	3.19	50	13439	1.630	ug/L	99
4) vinyl chloride	3.34	62	7534	1.730	ug/L	99
5) bromomethane	3.99	94	7228	1.362	ug/L #	87
6) chloroethane	4.11	64	8577	1.740	ug/L	96
7) trichlorofluoromethane	4.52	101	19077	1.675	ug/L	97
8) diethyl ether	5.02	59	10811	2.010	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	16710	2.125	ug/L	98
10) acrolein	5.27	56	117	Below Cal	#	45
11) acetone	5.38	43	4849	3.202	ug/L	98
12) 1,1-dichloroethene	5.61	96	14392	1.948	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.76	59	5280	9.492	ug/L #	82
14) Iodomethane	6.21	142	38	No Calib	#	
15) methylene chloride	6.55	84	17166	2.236	ug/L	97
16) carbon disulfide	6.57	76	44076	2.243	ug/L	100
17) acrylonitrile	6.81	53	5198	2.123	ug/L	95
18) Methyl-t-butyl ether(MTBE)	6.85	73	72542	3.748	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	14899	2.113	ug/L	96
20) hexane	7.29	57	16887	1.862	ug/L	98
21) Isopropyl ether(DIPE)	7.82	45	38625	1.787	ug/L	96
22) vinyl acetate	8.06	43	17174	1.341	ug/L	99
23) 1,1-dichloroethane	8.05	63	25495	2.047	ug/L	98
24) Ethyl-t-butyl ether(ETBE)	8.70	59	34245	1.704	ug/L #	96
25) 2,2-dichloropropane	9.25	77	17279	1.617	ug/L	95
26) cis-1,2-dichloroethene	9.36	61	19355	2.035	ug/L	97
27) 2-butanone(MEK)	8.97	43	5400	2.069	ug/L #	97
28) bromochloromethane	10.07	128	8231	2.151	ug/L	95
29) Tetrahydrofuran(THF)	10.16	42	3167	1.915	ug/L	98
30) chloroform	9.71	83	26933	2.155	ug/L	98
32) 1,1,1-trichloroethane	10.60	97	20457	1.860	ug/L	99
33) carbon tetrachloride	11.17	117	16614	1.705	ug/L	99
34) 1,1-dichloropropene	10.96	75	20157	1.915	ug/L	94
36) tert-amyl methyl ether(TAM	11.24	73	32157	1.654	ug/L #	93
37) benzene	11.56	78	66775	2.151	ug/L	98
38) 1,2-dichloroethane	11.53	62	20070	2.065	ug/L	99
39) trichloroethene	12.73	95	17268	2.028	ug/L	97
40) 1,2-dichloropropane	13.05	63	15283	2.066	ug/L	97
41) 1,4-dioxaneV	0.00	88	0	N.D.		
42) dibromomethane	13.53	93	9561	2.124	ug/L	96

(#) = qualifier out of range (m) = manual integration
SA090502.D envdef.m Fri Sep 21 13:15:19 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:09 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

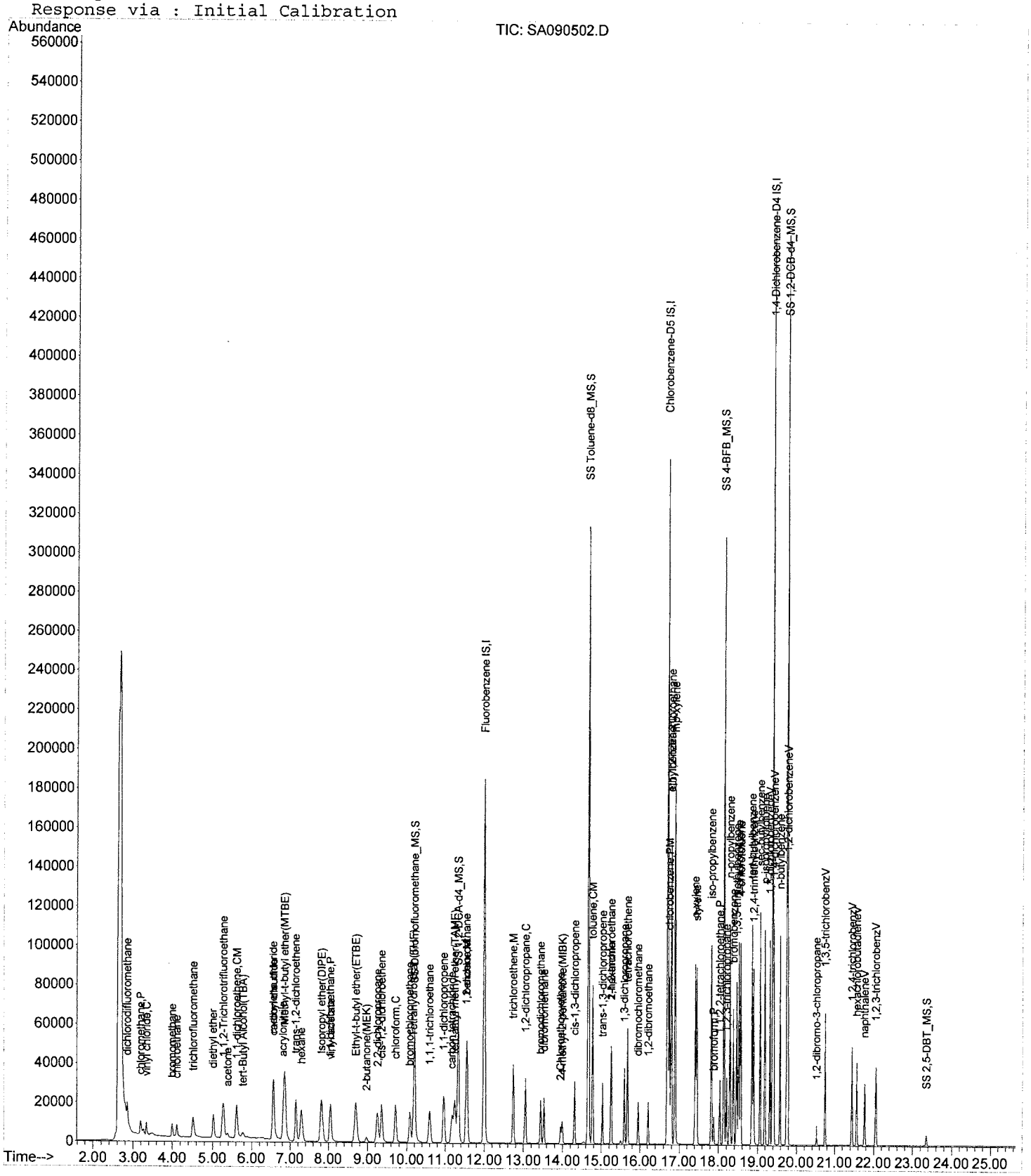
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	bromodichloromethane	13.44	83	17561	1.894 ug/L	99
44)	2-Chloroethoxyethene	13.94	63	4259	1.396 ug/L #	94
45)	4-methyl-2-pentanone(MIBK)	13.98	58	3700	1.766 ug/L	99
46)	cis-1,3-dichloropropene	14.30	75	18996	1.704 ug/L	94
49)	toluene	14.77	91	71741	2.135 ug/L	99
50)	trans-1,3-dichloropropene	15.03	75	16460	1.548 ug/L	95
51)	1,1,2-trichloroethane	15.25	83	11426	2.127 ug/L	98
52)	2-hexanone	15.26	43	6301	1.734 ug/L	98
53)	tetrachloroethene	15.67	166	18661	2.027 ug/L	96
54)	1,3-dichloropropane	15.59	76	23115	1.995 ug/L	95
55)	dibromochloromethane	15.95	129	12150	3.674 ug/L #	98
56)	1,2-dibromoethane	16.22	107	13793	2.031 ug/L #	99
57)	chlorobenzene	16.74	112	51129	2.158 ug/L	96
58)	1,1,1,2-tetrachloroethane	16.79	131	14322	1.864 ug/L	98
59)	ethylbenzene	16.79	91	78577	2.085 ug/L	100
60)	mp-xylene	16.89	106	64698	4.186 ug/L	98
61)	o-xylene	17.41	106	28916	1.904 ug/L	99
62)	styrene	17.46	104	47974	1.954 ug/L	98
63)	bromoform	17.88	173	6296	3.899 ug/L	96
64)	iso-propylbenzene	17.83	105	69061	1.937 ug/L	99
67)	bromobenzene	18.38	156	20990	2.077 ug/L	97
68)	1,1,2,2-tetrachloroethane	18.04	83	15809	2.249 ug/L #	1
69)	1,2,3-trichloropropane	18.20	110	5202	2.080 ug/L	96
70)	trans-1,4-dichloro-2-buten	18.20	75	13763	No Calib #	
71)	n-propylbenzene	18.28	91	87490	1.998 ug/L	100
72)	2-chlorotoluene	18.51	91	56666	2.056 ug/L	100
73)	4-chlorotoluene	18.56	91	56447	2.051 ug/L	99
74)	1,3,5-trimethylbenzene	18.45	105	48779	1.701 ug/L	100
75)	tert-butylbenzene	18.84	119	54678	1.929 ug/L	99
76)	1,2,4-trimethylbenzene	18.89	105	48179	1.705 ug/L	99
77)	sec-butylbenzene	19.06	105	76265	1.969 ug/L	100
78)	1,3-dichlorobenzeneV	19.32	146	39274	2.097 ug/L	96
79)	p-isopropyltoluene	19.19	119	61136	1.857 ug/L	99
80)	1,4-dichlorobenzeneV	19.42	146	40553	2.177 ug/L #	93
81)	1,2-dichlorobenzeneV	19.78	146	37521	2.156 ug/L #	87
82)	n-butylbenzene	19.58	91	49946	1.836 ug/L	99
84)	1,2-dibromo-3-chloropropan	20.52	157	2468	1.874 ug/L	94
85)	1,3,5-trichlorobenzV	20.75	180	20927	1.941 ug/L	97
86)	1,2,4-trichlorobenzV	21.44	180	16814	1.845 ug/L	97
87)	hexachlorobutadieneV	21.56	225	8865	2.131 ug/L	96
88)	naphthaleneV	21.77	128	28641	1.345 ug/L	99
89)	1,2,3-trichlorobenzV	22.05	180	14965	1.893 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090502.D envdef.m Fri Sep 21 13:15:19 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090502.D Vial: 2
Acq On : 5 Sep 2012 8:16 am Operator: BAM
Sample : STD 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 9:19 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	84	0.00
2		dichlorodifluoromethane	20.000	16.024	19.9	70	0.00
3	P	chloromethane	20.000	16.108	19.5	71	0.00
4	C	vinyl chloride	20.000	16.700	16.5	79	0.01
5		bromomethane	20.000	15.708	21.5#	70	0.02
6		chloroethane	20.000	18.117	9.4	79	0.02
7		trichlorofluoromethane	20.000	17.841	10.8	78	0.01
8		diethyl ether	20.000	18.206	9.0	78	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.343	3.3	83	0.01
10		acrolein	20.000	8.998	55.0#	57	0.00
11		acetone	20.000	19.743	1.3	85	-0.02
12	CM	1,1-dichloroethene	20.000	18.077	9.6	81	0.01
13		tert-Butyl Alcohol(TBA)	100.000	81.866	18.1	71	0.00
14		Iodomethane	20.000	0.000	100.0#	0	0.00
15		methylene chloride	20.000	18.990	5.1	82	0.00
16		carbon disulfide	20.000	17.810	11.0	79	0.01
17		acrylonitrile	20.000	18.558	7.2	79	-0.02
18		Methyl-t-butyl ether(MTBE)	40.000	34.033	14.9	74	-0.02
19		trans-1,2-dichloroethene	20.000	20.006	-0.0	88	0.00
20		hexane	20.000	19.214	3.9	85	0.00
21		Isopropyl ether(DIPE)	20.000	17.845	10.8	78	-0.01
22		vinyl acetate	20.000	16.279	18.6	80	0.00
23	P	1,1-dichloroethane	20.000	19.424	2.9	84	0.00
24		Ethyl-t-butyl ether(ETBE)	20.000	17.066	14.7	75	0.00
25		2,2-dichloropropane	20.000	16.105	19.5	71	0.00
26		cis-1,2-dichloroethene	20.000	19.123	4.4	83	0.00
27		2-butanone(MEK)	20.000	17.566	12.2	80	-0.02
28		bromochloromethane	20.000	20.175	-0.9	88	0.00
29		Tetrahydrofuran(THF)	20.000	17.528	12.4	77	-0.01
30	C	chloroform	20.000	19.225	3.9	84	0.00
31	S	SS Dibromofluoromethane_MS	10.000	10.690	-6.9	88	0.00
32		1,1,1-trichloroethane	20.000	17.867	10.7	78	0.00
33		carbon tetrachloride	20.000	17.744	11.3	77	0.00
34		1,1-dichloropropene	20.000	19.134	4.3	84	0.00
35	S	SS 1,2-DCA-d4_MS	10.000	9.244	7.6	77	0.00
36		tert-amyl methyl ether(TAME	20.000	17.073	14.6	76	-0.01
37	M	benzene	20.000	20.203	-1.0	90	-0.01
38		1,2-dichloroethane	20.000	18.104	9.5	77	-0.01
39	M	trichloroethene	20.000	19.054	4.7	85	0.00
40	C	1,2-dichloropropane	20.000	19.486	2.6	86	0.00
41		1,4-dioxaneV	40.000	41.936	-4.8	90	-0.02
42		dibromomethane	20.000	19.514	2.4	85	0.00
43		bromodichloromethane	20.000	18.724	6.4	82	0.00
44		2-Chloroethoxyethene	20.000	18.741	6.3	80	0.00
45		4-methyl-2-pentanone(MIBK)	20.000	18.695	6.5	81	-0.02
46		cis-1,3-dichloropropene	20.000	18.546	7.3	81	0.00
47	I	Chlorobenzene-D5 IS	10.000	10.000	0.0	88	0.00
48	S	SS Toluene-d8_MS	10.000	9.953	0.5	86	0.00
49	CM	toluene	20.000	19.650	1.8	90	-0.01
50		trans-1,3-dichloropropene	20.000	17.457	12.7	78	0.00
51		1,1,2-trichloroethane	20.000	19.560	2.2	90	0.00
52		2-hexanone	20.000	16.553	17.2	76	-0.02
53		tetrachloroethene	20.000	19.307	3.5	91	0.00
54		1,3-dichloropropane	20.000	18.792	6.0	88	-0.01
55		dibromochloromethane	20.000	17.860	10.7	86	-0.01
56		1,2-dibromoethane	20.000	19.361	3.2	88	0.00

57	PM	chlorobenzene	20.000	19.840	0.8	91	0.00
58		1,1,1,2-tetrachloroethane	20.000	19.739	1.3	85	-0.01
59	C	ethylbenzene	20.000	20.396	-2.0	88	-0.01
60		mp-xylene	40.000	41.157	-2.9	89	-0.01
61		o-xylene	20.000	19.844	0.8	89	-0.01
62		styrene	20.000	20.084	-0.4	89	-0.01
63	P	bromoform	20.000	17.622	11.9	87	-0.01
64		iso-propylbenzene	20.000	20.060	-0.3	88	0.00
65	S	SS 4-BFB_MS	10.000	9.966	0.3	86	0.00
66	I	1,4-Dichlorobenzene-D4 IS	10.000	10.000	0.0	91	0.00
67		bromobenzene	20.000	19.237	3.8	92	0.00
68	P	1,1,2,2-tetrachloroethane	20.000	20.182	-0.9	96	-0.01
69		1,2,3-trichloropropane	20.000	18.586	7.1	89	-0.01
70		trans-1,4-dichloro-2-butene	20.000	0.000	100.0#	0	0.00
71		n-propylbenzene	20.000	19.486	2.6	89	-0.01
72		2-chlorotoluene	20.000	18.981	5.1	88	-0.01
73		4-chlorotoluene	20.000	18.905	5.5	87	-0.01
74		1,3,5-trimethylbenzene	20.000	19.142	4.3	87	-0.02
75		tert-butylbenzene	20.000	19.359	3.2	89	-0.01
76		1,2,4-trimethylbenzene	20.000	19.105	4.5	87	-0.01
77		sec-butylbenzene	20.000	19.861	0.7	89	0.00
78		1,3-dichlorobenzeneV	20.000	19.615	1.9	92	-0.01
79		p-isopropyltoluene	20.000	20.291	-1.5	90	0.00
80		1,4-dichlorobenzeneV	20.000	19.699	1.5	92	-0.01
81		1,2-dichlorobenzeneV	20.000	19.644	1.8	93	-0.01
82		n-butylbenzene	20.000	20.039	-0.2	89	0.00
83	S	SS 1,2-DCB-d4_MS	10.000	9.894	1.1	90	0.00
84		1,2-dibromo-3-chloropropane	20.000	20.583	-2.9	90	0.00
85		1,3,5-trichlorobenzV	20.000	19.463	2.7	92	0.00
86		1,2,4-trichlorobenzV	20.000	19.352	3.2	91	-0.01
87		hexachlorobutadieneV	20.000	19.840	0.8	96	-0.01
88		naphthaleneV	20.000	19.445	2.8	90	-0.01
89		1,2,3-trichlorobenzV	20.000	19.273	3.6	91	-0.01
90	S	SS 2,5-DBT_MS	20.000	20.195	-1.0	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SA080609.D 5VID0806.M Wed Sep 12 10:13:18 2012

9/7/12

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	271470	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	211994	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	121817	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	65283	10.69	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.90%			
35) SS 1,2-DCA-d4_MS	11.33	65	68341	9.24	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.44%			
48) SS Toluene-d8_MS	14.65	98	270693	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.53%			
65) SS 4-BFB_MS	18.13	95	105169	9.97	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.66%			
83) SS 1,2-DCB-d4_MS	19.75	152	113595	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.94%			
90) SS 2,5-DBT_MS	23.36	250	38935	20.19	ug/L	0.00
Spiked Amount 40.000	Range 70 - 130		Recovery = 50.49%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	143725	16.024	ug/L	100
3) chloromethane	3.19	50	133866	16.108	ug/L	100
4) vinyl chloride	3.34	62	73332	16.700	ug/L	99
5) bromomethane	3.99	94	84012	15.708	ug/L	98
6) chloroethane	4.11	64	90035	18.117	ug/L	99
7) trichlorofluoromethane	4.52	101	204805	17.841	ug/L	100
8) diethyl ether	5.02	59	98692	18.206	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	153307	19.343	ug/L	99
10) acrolein	5.28	56	2918	8.998	ug/L	85
11) acetone	5.38	43	30138	19.743	ug/L	98
12) 1,1-dichloroethene	5.61	96	134598	18.077	ug/L	97
13) tert-Butyl Alcohol(TBA)	5.77	59	45908	81.866	ug/L #	89
15) methylene chloride	6.55	84	146955	18.990	ug/L	98
16) carbon disulfide	6.57	76	352766	17.810	ug/L	99
17) acrylonitrile	6.81	53	45798	18.558	ug/L	99
18) Methyl-t-butyl ether(MTBE)	6.85	73	664035	34.033	ug/L	98
19) trans-1,2-dichloroethene	7.15	96	142198	20.006	ug/L	94
20) hexane	7.28	57	175668	19.214	ug/L	97
21) Isopropyl ether(DIPE)	7.81	45	388811	17.845	ug/L	98
22) vinyl acetate	8.05	43	210200	16.279	ug/L	98
23) 1,1-dichloroethane	8.04	63	243862	19.424	ug/L	100
24) Ethyl-t-butyl ether(ETBE)	8.69	59	345743	17.066	ug/L	97
25) 2,2-dichloropropane	9.24	77	173482	16.105	ug/L	99
26) cis-1,2-dichloroethene	9.35	61	183357	19.123	ug/L	96
27) 2-butanone(MEK)	8.96	43	46222	17.566	ug/L	97
28) bromochloromethane	10.08	128	77821	20.175	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	29217	17.528	ug/L	97
30) chloroform	9.71	83	242183	19.225	ug/L	98
32) 1,1,1-trichloroethane	10.59	97	198125	17.867	ug/L	99
33) carbon tetrachloride	11.17	117	174342	17.744	ug/L	98
34) 1,1-dichloropropene	10.96	75	203027	19.134	ug/L	93
36) tert-amyl methyl ether(TAM	11.24	73	334520	17.073	ug/L #	95
37) benzene	11.55	78	632337	20.203	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 09:19:24 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

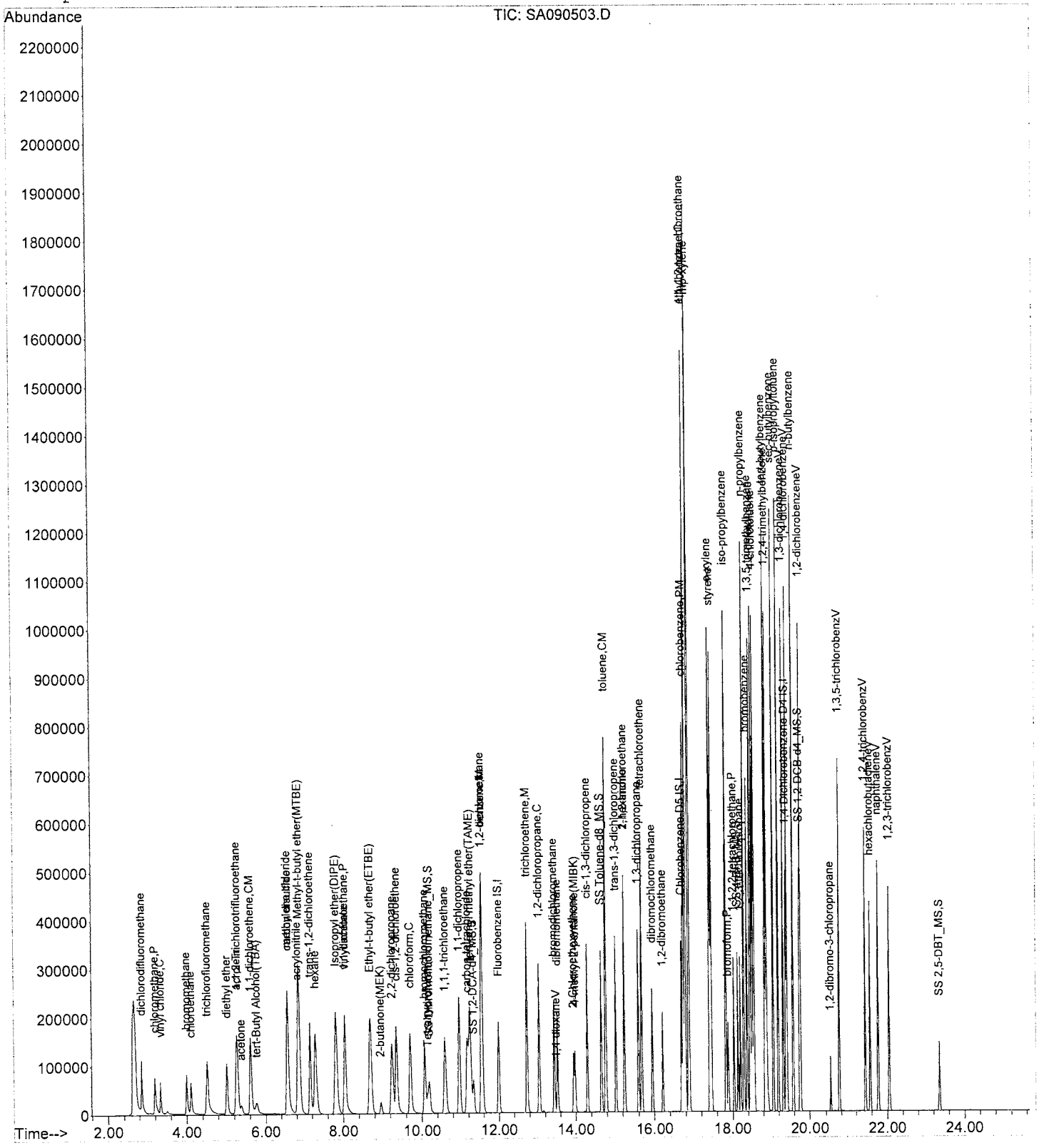
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	1,2-dichloroethane	11.53	62	177350	18.104	ug/L		99
39)	trichloroethene	12.73	95	163559	19.054	ug/L		96
40)	1,2-dichloropropane	13.05	63	145338	19.486	ug/L		95
41)	1,4-dioxaneV	13.49	88	2888	41.936	ug/L	#	79
42)	dibromomethane	13.53	93	88567	19.514	ug/L		96
43)	bromodichloromethane	13.44	83	175033	18.724	ug/L		98
44)	2-Chloroethoxyethene	13.95	63	57615	18.741	ug/L		95
45)	4-methyl-2-pentanone(MIBK)	13.98	58	39474	18.695	ug/L		94
46)	cis-1,3-dichloropropene	14.30	75	208389	18.546	ug/L		93
49)	toluene	14.77	91	678537	19.650	ug/L		100
50)	trans-1,3-dichloropropene	15.03	75	190734	17.457	ug/L		93
51)	1,1,2-trichloroethane	15.25	83	107950	19.560	ug/L		96
52)	2-hexanone	15.25	43	61809	16.553	ug/L		97
53)	tetrachloroethene	15.67	166	182619	19.307	ug/L		95
54)	1,3-dichloropropane	15.59	76	223748	18.792	ug/L		91
55)	dibromochloromethane	15.95	129	138671	17.860	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	135078	19.361	ug/L	#	99
57)	chlorobenzene	16.74	112	482989	19.840	ug/L		97
58)	1,1,1,2-tetrachloroethane	16.78	131	155802	19.739	ug/L		99
59)	ethylbenzene	16.79	91	789751	20.396	ug/L		99
60)	mp-xylene	16.89	106	653597	41.157	ug/L		97
61)	o-xylene	17.41	106	309680	19.844	ug/L		97
62)	styrene	17.46	104	506725	20.084	ug/L		97
63)	bromoform	17.88	173	82220	17.622	ug/L	#	95
64)	iso-propylbenzene	17.83	105	734772	20.060	ug/L		99
67)	bromobenzene	18.38	156	209490	19.237	ug/L		95
68)	1,1,2,2-tetrachloroethane	18.03	83	152888	20.182	ug/L		99
69)	1,2,3-trichloropropane	18.20	110	50089	18.586	ug/L		98
71)	n-propylbenzene	18.28	91	919586	19.486	ug/L		99
72)	2-chlorotoluene	18.51	91	563697	18.981	ug/L		98
73)	4-chlorotoluene	18.56	91	560549	18.905	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	591456	19.142	ug/L		98
75)	tert-butylbenzene	18.84	119	591289	19.359	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	581608	19.105	ug/L		98
77)	sec-butylbenzene	19.06	105	829059	19.861	ug/L		99
78)	1,3-dichlorobenzeneV	19.32	146	395840	19.615	ug/L		96
79)	p-isopropyltoluene	19.19	119	719604	20.291	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	395427	19.699	ug/L		96
81)	1,2-dichlorobenzeneV	19.77	146	368340	19.644	ug/L	#	95
82)	n-butylbenzene	19.58	91	587520	20.039	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	29204	20.583	ug/L		95
85)	1,3,5-trichlorobenzV	20.75	180	226129	19.463	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	190031	19.352	ug/L		95
87)	hexachlorobutadieneV	21.56	225	88934	19.840	ug/L		96
88)	naphthaleneV	21.76	128	446051	19.445	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	164171	19.273	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090503.D Vial: 3
Acq On : 5 Sep 2012 8:50 am Operator: BAM
Sample : STD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 9:19 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEP12\SEPT0512\SA090504.D Vial: 4
Acq On : 5 Sep 2012 9:24 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 05 10:48:15 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	264916	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	203570	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	107192	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61587	10.33	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.34%			
35) SS 1,2-DCA-d4_MS	11.33	65	66834	9.26	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.64%			
48) SS Toluene-d8_MS	14.65	98	258745	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.07%			
65) SS 4-BFB_MS	18.13	95	96522	9.52	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 95.25%			
83) SS 1,2-DCB-d4_MS	19.75	152	102699	10.17	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.66%			
90) SS 2,5-DBT_MS	23.36	250	332	7.93	ug/L	-0.01
Spiked Amount 40.000	Range 70 - 130		Recovery = 19.84%#			
Target Compounds						Qvalue
16) carbon disulfide	6.57	76	8532	0.441	ug/L	96
52) 2-hexanone	15.25	43	1126	0.314	ug/L #	93
85) 1,3,5-trichlorobenzV	20.75	180	4131	0.404	ug/L	97
86) 1,2,4-trichlorobenzV	21.44	180	4055	0.469	ug/L	96
87) hexachlorobutadieneV	21.56	225	1145	0.290	ug/L	95
88) naphthaleneV	21.76	128	5238	0.260	ug/L #c/o	94
89) 1,2,3-trichlorobenzV	22.06	180	4016	0.536	ug/L	93

from STD 20; < Reporting limit

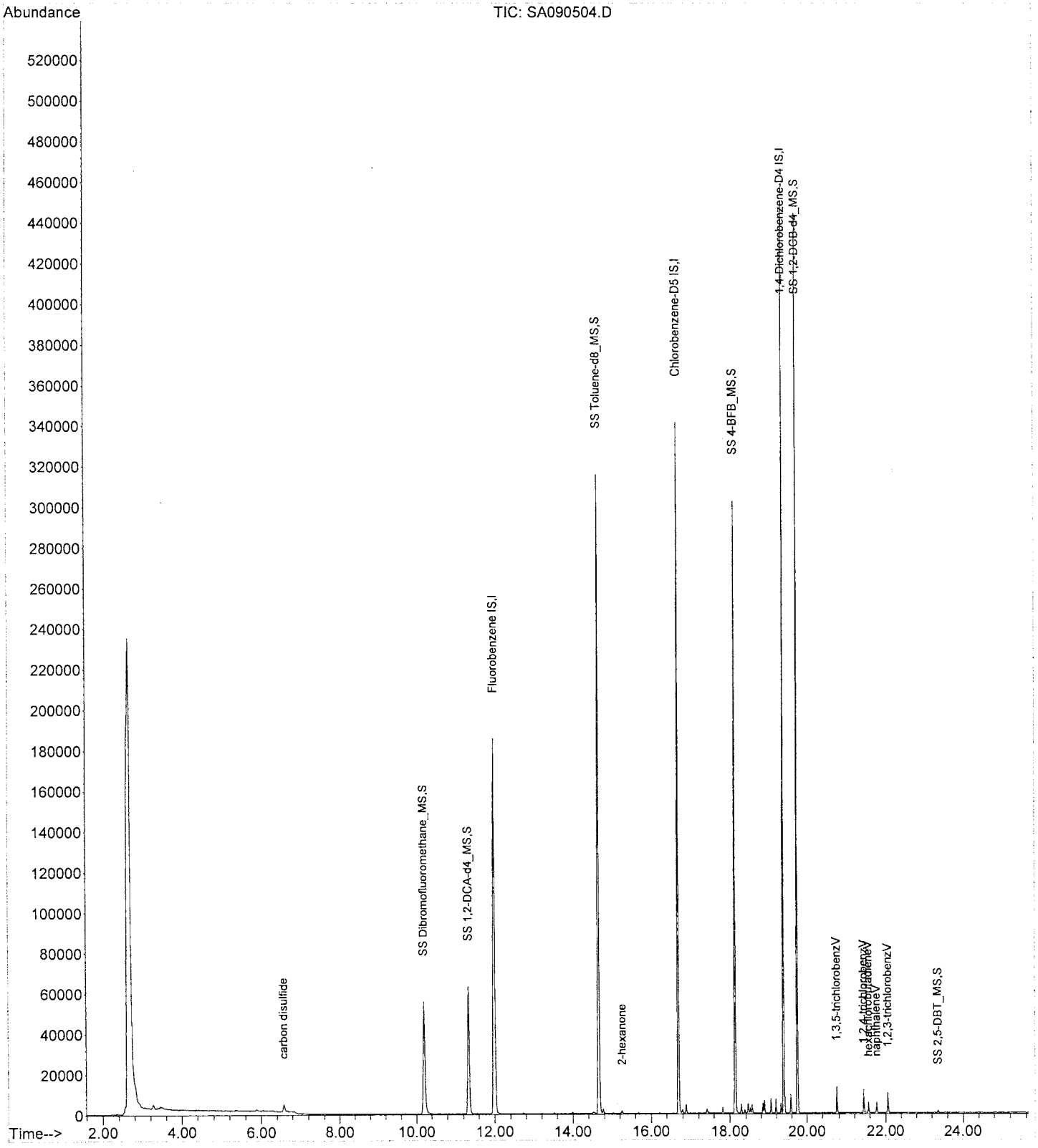
Bruce 9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEP12\SEPT0512\SA090504.D Vial: 4
Acq On : 5 Sep 2012 9:24 am Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 5 10:48 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090516.D Vial: 16
Acq On : 5 Sep 2012 4:14 pm Operator: BAM
Sample : 113689.03 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:29:28 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	258676	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201761	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	104940	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	61974	10.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.50%			
35) SS 1,2-DCA-d4_MS	11.33	65	67394	9.57	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.67%			
48) SS Toluene-d8_MS	14.65	98	255682	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.77%			
65) SS 4-BFB_MS	18.13	95	94955	9.45	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 94.54%			
83) SS 1,2-DCB-d4_MS	19.75	152	103103	10.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.25%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.11	64	19759	4.172	ug/L	97
8) diethyl ether	5.01	59	113690	22.010	ug/L	99
11) acetone	5.39	43	2083	1.432	ug/L	100
13) tert-Butyl Alcohol(TBA)	5.76	59	6254	11.704	ug/L #	80
16) carbon disulfide	6.57	76	6641	0.352	ug/L #	87
18) Methyl-t-butyl ether(MTBE)	6.85	73	21285	1.145	ug/L #	95
29) Tetrahydrofuran(THF)	10.15	42	42675	26.868	ug/L	95
37) benzene	11.56	78	52140	1.748	ug/L	97
41) 1,4-dioxaneV	13.48	88	3811	58.075	ug/L #	94
57) chlorobenzene	16.74	112	43215	1.865	ug/L	97
78) 1,3-dichlorobenzeneV	~~19.42~~	146	10777	0.620	ug/L #	72
80) 1,4-dichlorobenzeneV	19.42	146	10777	0.623	ug/L #	69

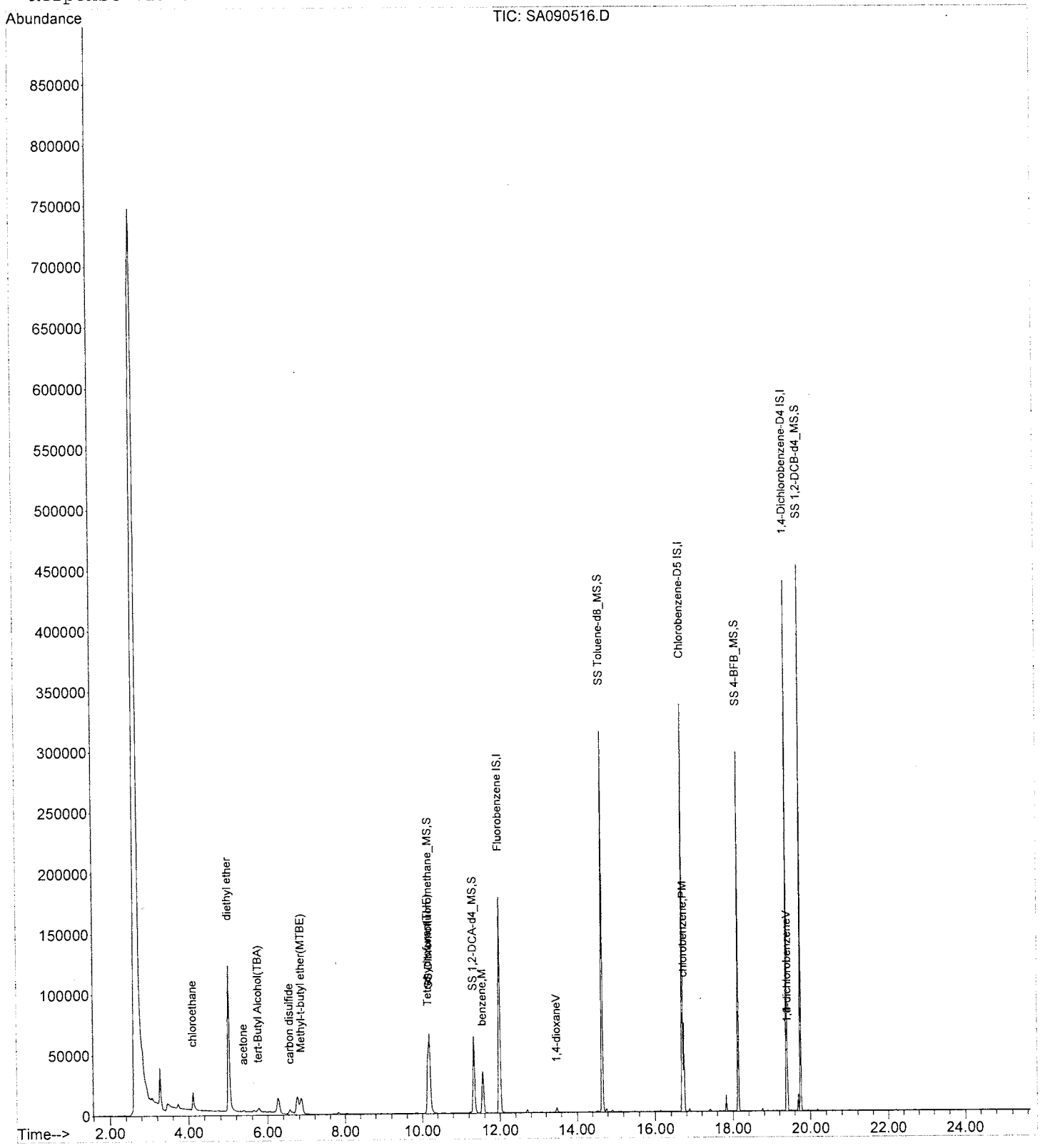
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090516.D Vial: 16
Acq On : 5 Sep 2012 4:14 pm Operator: BAM
Sample : 113689.03 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:29 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090517.D Vial: 17
Acq On : 5 Sep 2012 4:48 pm Operator: BAM
Sample : 113689.06 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:29:32 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	243261	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	189849	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	98243	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	57699	10.54	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.43%			
35) SS 1,2-DCA-d4_MS	11.33	65	64037	9.67	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.66%			
48) SS Toluene-d8_MS	14.65	98	242257	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.46%			
65) SS 4-BFB_MS	18.13	95	88088	9.32	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.21%			
83) SS 1,2-DCB-d4_MS	19.75	152	96033	10.37	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.72%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.39	43	822	0.601	ug/L #	49
16) carbon disulfide	6.57	76	5858	0.330	ug/L #	76
18) Methyl-t-butyl ether(MTBE)	6.87	73	7949	0.455	ug/L #	93

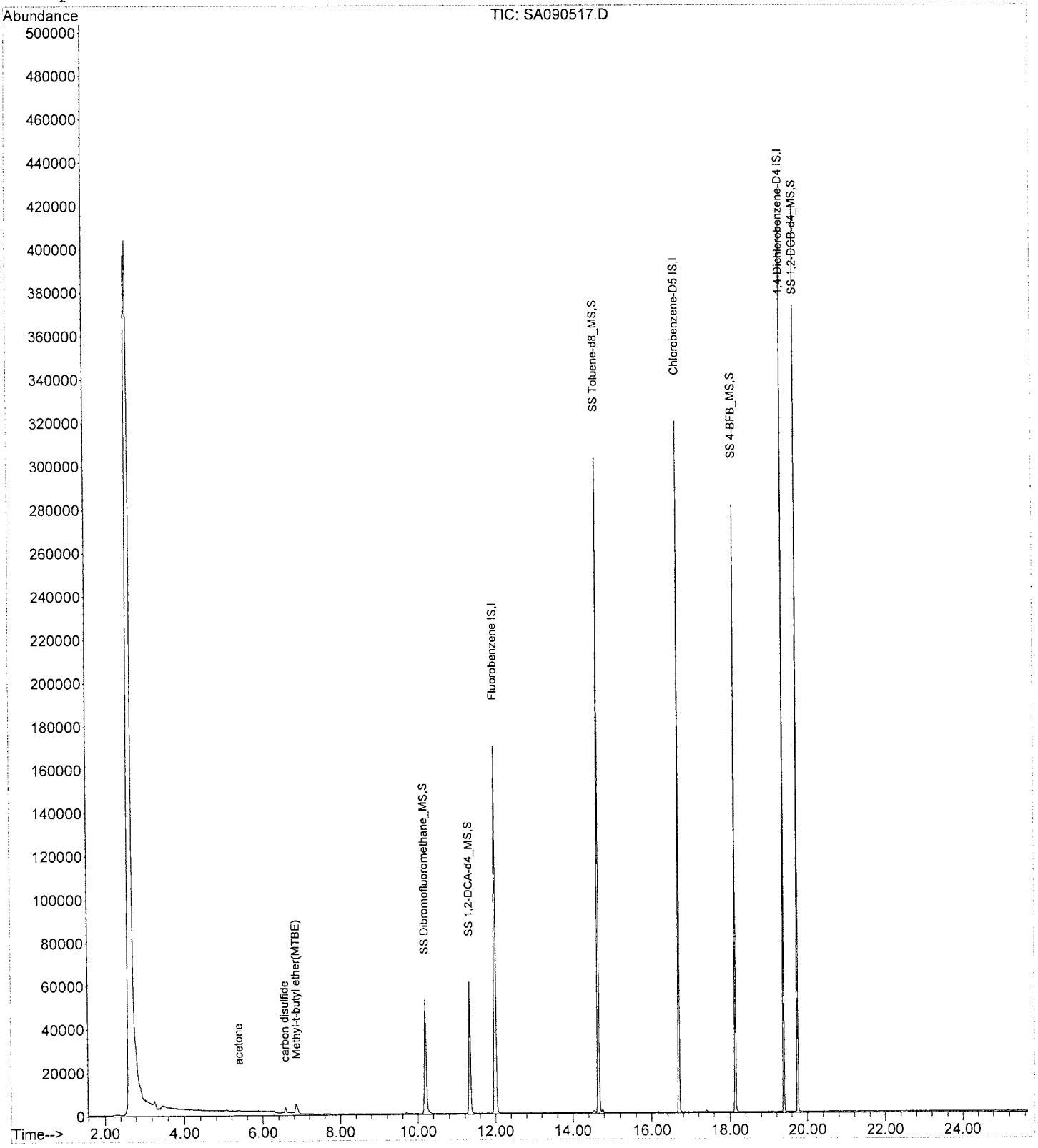
Bdlee 9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090517.D 5VID0806.M Thu Sep 06 07:29:33 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090517.D Vial: 17
Acq On : 5 Sep 2012 4:48 pm Operator: BAM
Sample : 113689.06 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:29 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090518.D Vial: 18
Acq On : 5 Sep 2012 5:22 pm Operator: BAM
Sample : 113689.07 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:29:36 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	258251	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	200433	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	104903	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	60215	10.36	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.64%			
35) SS 1,2-DCA-d4_MS	11.33	65	66552	9.46	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.63%			
48) SS Toluene-d8_MS	14.65	98	256186	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.63%			
65) SS 4-BFB_MS	18.13	95	93489	9.37	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 93.70%			
83) SS 1,2-DCB-d4_MS	19.75	152	101941	10.31	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.11%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
11) acetone	5.38	43	2008	1.383	ug/L	89
16) carbon disulfide	6.58	76	6338	0.336	ug/L #	70

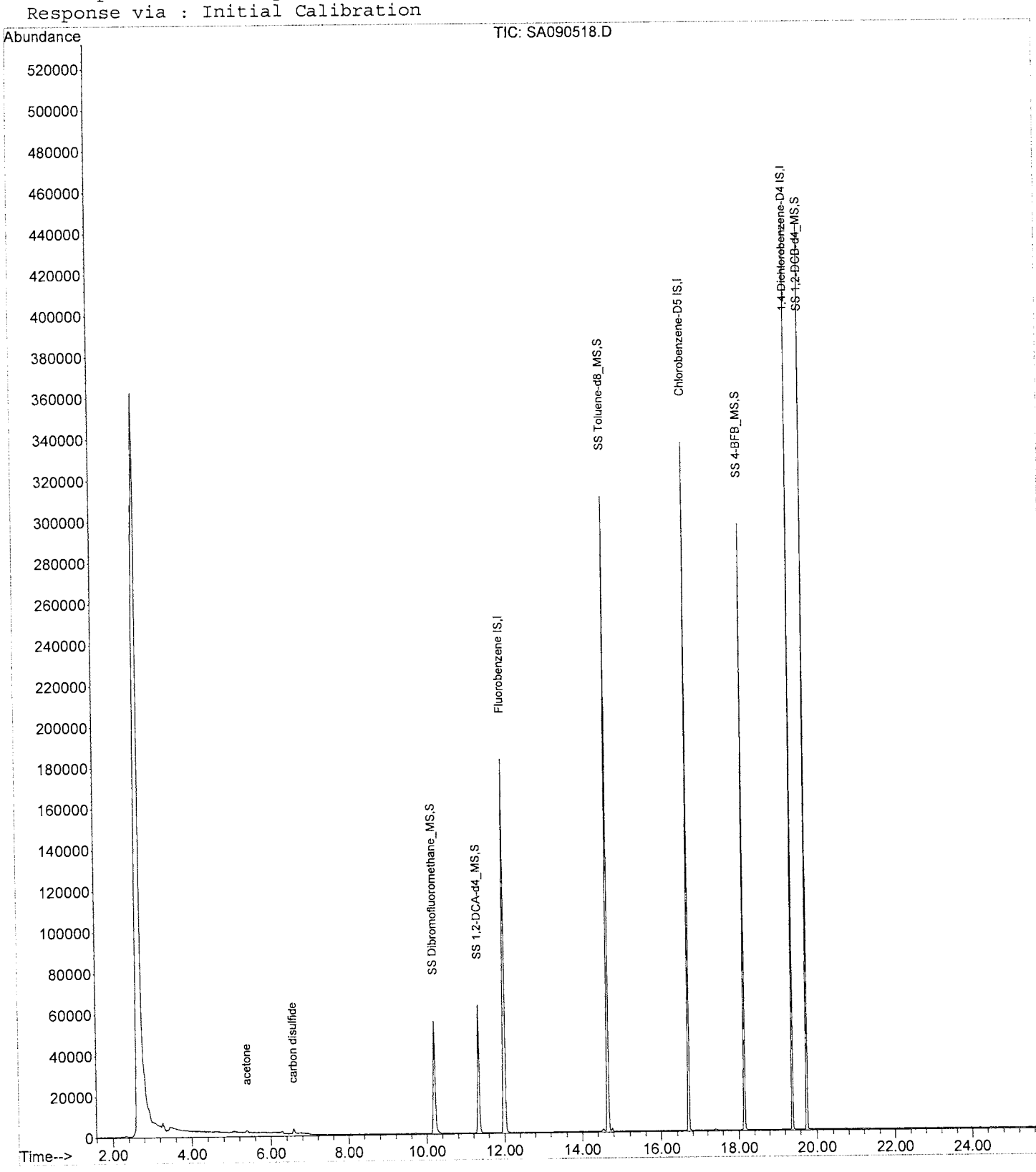
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090518.D 5VID0806.M Thu Sep 06 07:29:37 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090518.D Vial: 18
Acq On : 5 Sep 2012 5:22 pm Operator: BAM
Sample : 113689.07 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:29 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090519.D Vial: 19
Acq On : 5 Sep 2012 5:56 pm Operator: BAM
Sample : 113689.11 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 07:29:40 2012 Quant Results File: 5VID0806.RES

Quant Method : C:\MSDCHEM\1...\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	256376	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	198532	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	106087	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	60667	10.52	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.19%			
35) SS 1,2-DCA-d4_MS	11.33	65	65155	9.33	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.32%			
48) SS Toluene-d8_MS	14.65	98	251773	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.85%			
65) SS 4-BFB_MS	18.13	95	95833	9.70	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 96.97%			
83) SS 1,2-DCB-d4_MS	19.75	152	103827	10.38	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.84%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
6) chloroethane	4.12	64	40342	8.595	ug/L	98
8) diethyl ether	5.02	59	239698	46.822	ug/L	98
11) acetone	5.38	43	3236	2.245	ug/L	89
13) tert-Butyl Alcohol(TBA)	5.77	59	10880	20.544	ug/L #	77
16) carbon disulfide	6.58	76	6295	0.337	ug/L #	73
18) Methyl-t-butyl ether(MTBE)	6.85	73	6947	0.377	ug/L #	89
29) Tetrahydrofuran(THF)	10.14	42	73148	46.466	ug/L	96
37) benzene	11.56	78	163609	5.535	ug/L	97
38) 1,2-dichloroethane	11.54	62	3159	0.341	ug/L #	25
41) 1,4-dioxaneV	13.48	88	4782	73.526	ug/L #	91
52) 2-hexanone	15.13	43	2593	0.742	ug/L #	43
57) chlorobenzene	16.74	112	213831	9.379	ug/L	97
60) mp-xylene	16.88	106	9363	0.630	ug/L #	93
64) iso-propylbenzene	17.83	105	72573	2.116	ug/L	99
78) 1,3-dichlorobenzeneV	~~19.42~~	146	72815	~~4.143~~	ug/L	96
80) 1,4-dichlorobenzeneV	19.42	146	72815	4.165	ug/L #	94
88) naphthaleneV	21.77	128	15606	0.781	ug/L	99

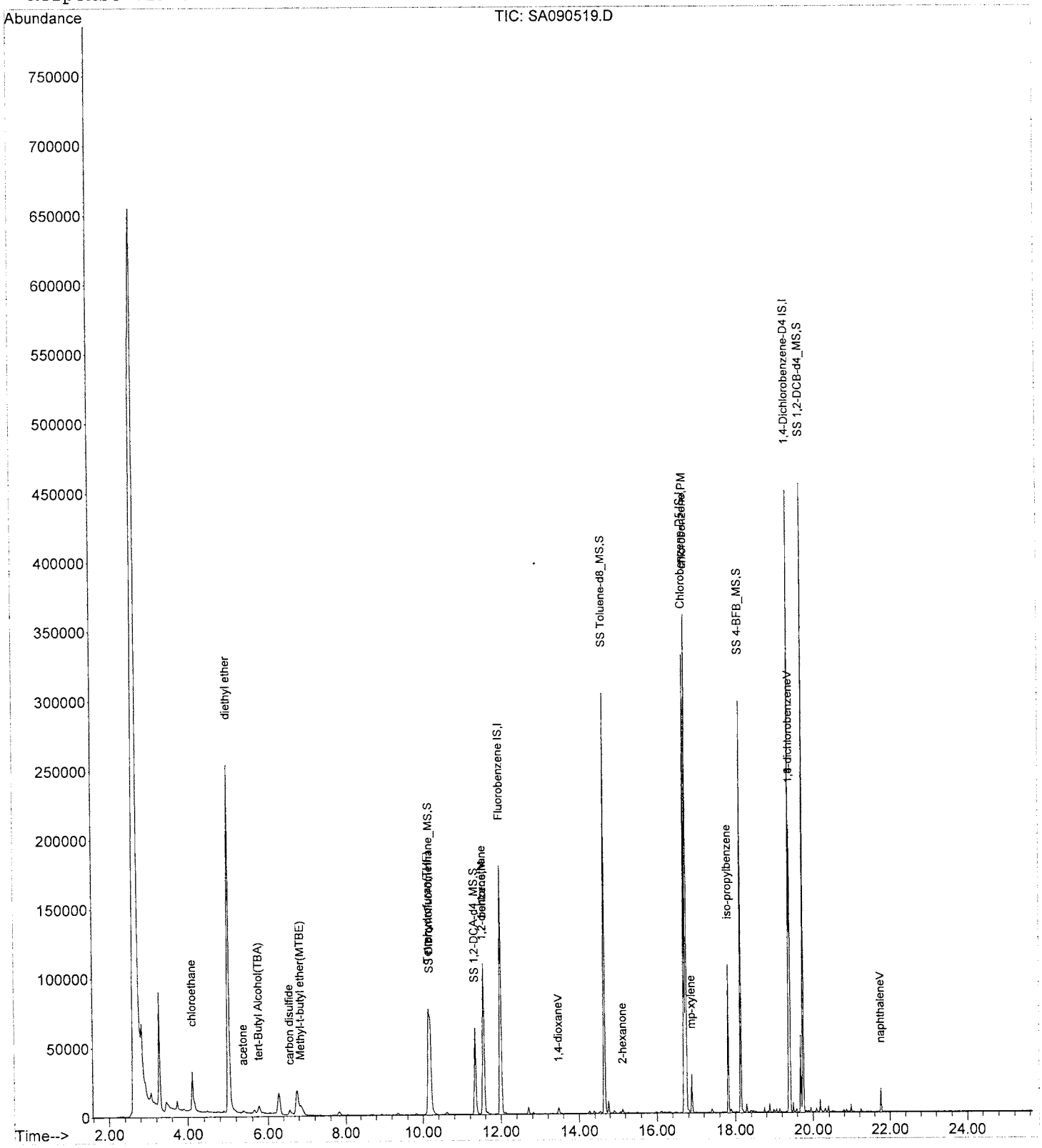
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090519.D 5VID0806.M Thu Sep 06 07:29:41 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0512\SA090519.D Vial: 19
Acq On : 5 Sep 2012 5:56 pm Operator: BAM
Sample : 113689.11 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 7:29 2012 Quant Results File: 5VID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:27:03 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	255515	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	201783	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	117631	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.19	111	62411	10.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.57%			
35) SS 1,2-DCA-d4_MS	11.33	65	65581	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.25%			
48) SS Toluene-d8_MS	14.65	98	257126	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.32%			
65) SS 4-BFB_MS	18.13	95	102243	10.18	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 101.79%			
83) SS 1,2-DCB-d4_MS	19.75	152	110272	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.47%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	116848	13.841	ug/L	99
3) chloromethane	3.19	50	121396	15.519	ug/L	100
4) vinyl chloride	3.33	62	69466	16.807	ug/L	100
5) bromomethane	3.99	94	79284	15.750	ug/L	99
6) chloroethane	4.11	64	90269	19.298	ug/L	99
7) trichlorofluoromethane	4.52	101	204745	18.949	ug/L	99
8) diethyl ether	5.01	59	89102	17.464	ug/L	99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	135457	18.158	ug/L	99
10) acrolein	5.27	56	2035	5.552	ug/L	87
11) acetone	5.38	43	27118	18.874	ug/L	100
12) 1,1-dichloroethene	5.61	96	120657	17.216	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.77	59	39821	75.446	ug/L #	82
15) methylene chloride	6.55	84	137618	18.894	ug/L	97
16) carbon disulfide	6.57	76	316987	17.003	ug/L	99
17) acrylonitrile	6.81	53	37664	16.215	ug/L	97
18) Methyl-t-butyl ether(MTBE)	6.85	73	300916	16.386	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	124537	18.615	ug/L	95
21) Isopropyl ether(DIPE)	7.81	45	353926	17.258	ug/L	99
22) vinyl acetate	8.05	43	174730	14.377	ug/L	97
23) 1,1-dichloroethane	8.04	63	219802	18.601	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.69	59	323360	16.958	ug/L	97
25) 2,2-dichloropropane	9.24	77	147044	14.503	ug/L	96
26) cis-1,2-dichloroethene	9.35	61	182150	20.183	ug/L	97
27) 2-butanone(MEK)	8.96	43	42110	17.002	ug/L	96
28) bromochloromethane	10.08	128	68751	18.936	ug/L	96
29) Tetrahydrofuran(THF)	10.16	42	26989	17.202	ug/L	96
30) chloroform	9.71	83	223068	18.813	ug/L	97
32) 1,1,1-trichloroethane	10.59	97	179542	17.202	ug/L	99
33) carbon tetrachloride	11.17	117	156231	16.893	ug/L	98
34) 1,1-dichloropropene	10.96	75	184477	18.471	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	311732	16.904	ug/L #	58
37) benzene	11.56	78	586767	19.917	ug/L	98
38) 1,2-dichloroethane	11.53	62	161669	17.534	ug/L	98

(#) = qualifier out of range (m) = manual integration
SA090520.D 5VID0806.M Fri Sep 14 10:17:19 2012

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:27:03 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

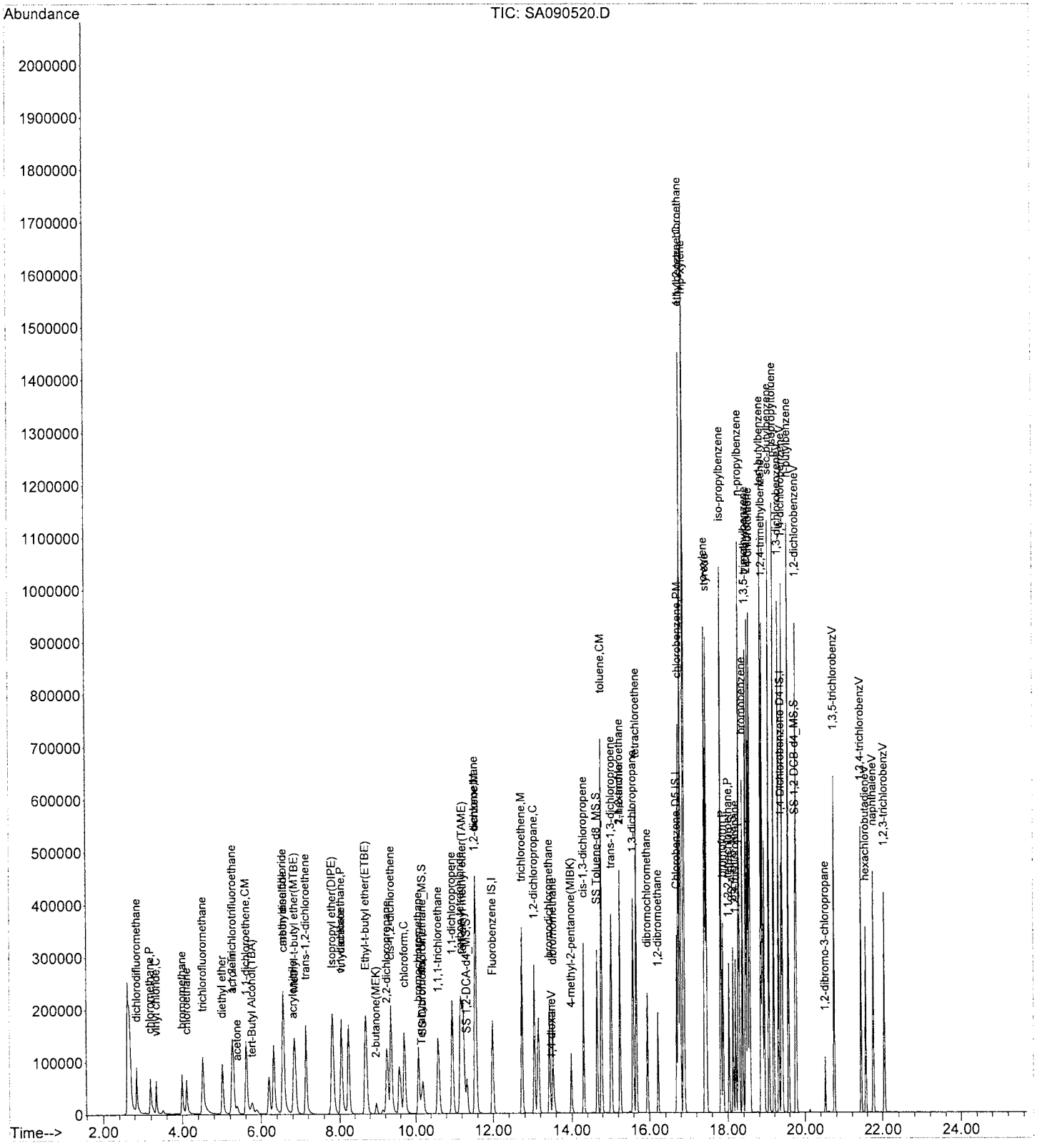
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	12.73	95	147138	18.212	ug/L		96
40)	1,2-dichloropropane	13.05	63	133467	19.012	ug/L		96
41)	1,4-dioxaneV	13.49	88	1583	24.422	ug/L	#	45
42)	dibromomethane	13.53	93	83178	19.471	ug/L		96
43)	bromodichloromethane	13.44	83	161168	18.317	ug/L		98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	35859	18.044	ug/L		98
46)	cis-1,3-dichloropropene	14.30	75	191908	18.145	ug/L		93
49)	toluene	14.77	91	627553	19.093	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	174919	16.820	ug/L	#	85
51)	1,1,2-trichloroethane	15.25	83	102049	19.427	ug/L		97
52)	2-hexanone	15.25	43	60271	16.958	ug/L		97
53)	tetrachloroethene	15.67	166	189622	21.062	ug/L	#	95
54)	1,3-dichloropropane	15.59	76	212432	18.744	ug/L		95
55)	dibromochloromethane	15.95	129	124819	17.013	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	124406	18.734	ug/L	#	99
57)	chlorobenzene	16.74	112	443820	19.154	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	142728	18.998	ug/L		99
59)	ethylbenzene	16.79	91	734043	19.916	ug/L		99
60)	mp-xylene	16.89	106	608225	40.238	ug/L		97
61)	o-xylene	17.41	106	287904	19.382	ug/L		97
62)	styrene	17.46	104	489186	20.370	ug/L		98
63)	bromoform	17.88	173	79815	17.918	ug/L		93
64)	iso-propylbenzene	17.83	105	738176	21.173	ug/L		99
67)	bromobenzene	18.38	156	193946	18.443	ug/L		95
68)	1,1,2,2-tetrachloroethane	18.03	83	138488	18.931	ug/L		99
69)	1,2,3-trichloropropane	18.20	110	45835	17.613	ug/L		98
71)	n-propylbenzene	18.28	91	866579	19.016	ug/L		99
72)	2-chlorotoluene	18.51	91	511530	17.837	ug/L		98
73)	4-chlorotoluene	18.56	91	520398	18.175	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	543167	18.205	ug/L		98
75)	tert-butylbenzene	18.84	119	549133	18.618	ug/L		97
76)	1,2,4-trimethylbenzene	18.89	105	531077	18.066	ug/L		98
77)	sec-butylbenzene	19.06	105	758037	18.806	ug/L		99
78)	1,3-dichlorobenzeneV	19.32	146	368461	18.908	ug/L		95
79)	p-isopropyltoluene	19.19	119	665029	19.419	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	370251	19.101	ug/L		96
81)	1,2-dichlorobenzeneV	19.77	146	340898	18.828	ug/L	#	95
82)	n-butylbenzene	19.58	91	529951	18.719	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	26847	19.595	ug/L		94
85)	1,3,5-trichlorobenzV	20.75	180	202470	18.047	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	176746	18.640	ug/L		95
87)	hexachlorobutadieneV	21.56	225	73120	16.892	ug/L		96
88)	naphthaleneV	21.76	128	395063	17.835	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	149345	18.156	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090520.D Vial: 20
Acq On : 5 Sep 2012 6:31 pm Operator: BAM
Sample : LCS 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 13:27 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:28:17 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	263083	10.000	ug/L	0.00
47) Chlorobenzene-D5 IS	16.69	117	206767	10.000	ug/L	0.00
66) 1,4-Dichlorobenzene-D4 IS	19.39	152	118507	10.000	ug/L	0.00
System Monitoring Compounds						
31) SS Dibromofluoromethane_MS	10.20	111	63024	10.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.49%			
35) SS 1,2-DCA-d4_MS	11.33	65	67106	9.37	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.66%			
48) SS Toluene-d8_MS	14.66	98	264042	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.53%			
65) SS 4-BFB_MS	18.13	95	102681	9.98	ug/L	0.00
Spiked Amount 10.000	Range 86 - 115		Recovery = 99.76%			
83) SS 1,2-DCB-d4_MS	19.75	152	110498	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.93%			
90) SS 2,5-DBT_MS	0.00	250	0	0.00	ug/L	
Spiked Amount 40.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	121502	13.978	ug/L	99
3) chloromethane	3.19	50	125837	15.624	ug/L	100
4) vinyl chloride	3.34	62	70873	16.654	ug/L	99
5) bromomethane	3.99	94	88561	17.087	ug/L	99
6) chloroethane	4.11	64	94076	19.533	ug/L	99
7) trichlorofluoromethane	4.52	101	213653	19.205	ug/L	99
8) diethyl ether	5.02	59	92110	17.534	ug/L	98
9) 1,1,2-Trichlorotrifluoroet	5.27	101	140608	18.306	ug/L	99
10) acrolein	5.28	56	1660	3.504	ug/L #	56
11) acetone	5.38	43	27095	18.315	ug/L	99
12) 1,1-dichloroethene	5.61	96	126382	17.514	ug/L	96
13) tert-Butyl Alcohol(TBA)	5.78	59	43185	79.465	ug/L #	86
15) methylene chloride	6.55	84	142691	19.027	ug/L	97
16) carbon disulfide	6.57	76	339330	17.678	ug/L	100
17) acrylonitrile	6.82	53	37853	15.827	ug/L	96
18) Methyl-t-butyl ether(MTBE)	6.85	73	309410	16.364	ug/L	97
19) trans-1,2-dichloroethene	7.15	96	132907	19.295	ug/L	94
21) Isopropyl ether(DIPE)	7.82	45	368851	17.469	ug/L	98
22) vinyl acetate	8.05	43	183177	14.639	ug/L	97
23) 1,1-dichloroethane	8.04	63	232304	19.094	ug/L	99
24) Ethyl-t-butyl ether(ETBE)	8.70	59	339484	17.291	ug/L	97
25) 2,2-dichloropropane	9.25	77	156884	15.029	ug/L	97
26) cis-1,2-dichloroethene	9.35	61	188084	20.241	ug/L	98
27) 2-butanone(MEK)	8.96	43	43348	16.999	ug/L	96
28) bromochloromethane	10.08	128	71136	19.030	ug/L	95
29) Tetrahydrofuran(THF)	10.15	42	27917	17.282	ug/L	96
30) chloroform	9.71	83	233833	19.154	ug/L	97
32) 1,1,1-trichloroethane	10.60	97	191115	17.784	ug/L	99
33) carbon tetrachloride	11.17	117	167454	17.586	ug/L	98
34) 1,1-dichloropropene	10.97	75	194250	18.890	ug/L	92
36) tert-amyl methyl ether(TAM	11.24	73	323592	17.042	ug/L #	59
37) benzene	11.56	78	613068	20.211	ug/L	98
38) 1,2-dichloroethane	11.53	62	166856	17.576	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 13:28:17 2012 Quant Results File: 5VID0806.RES

Quant Method : U:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

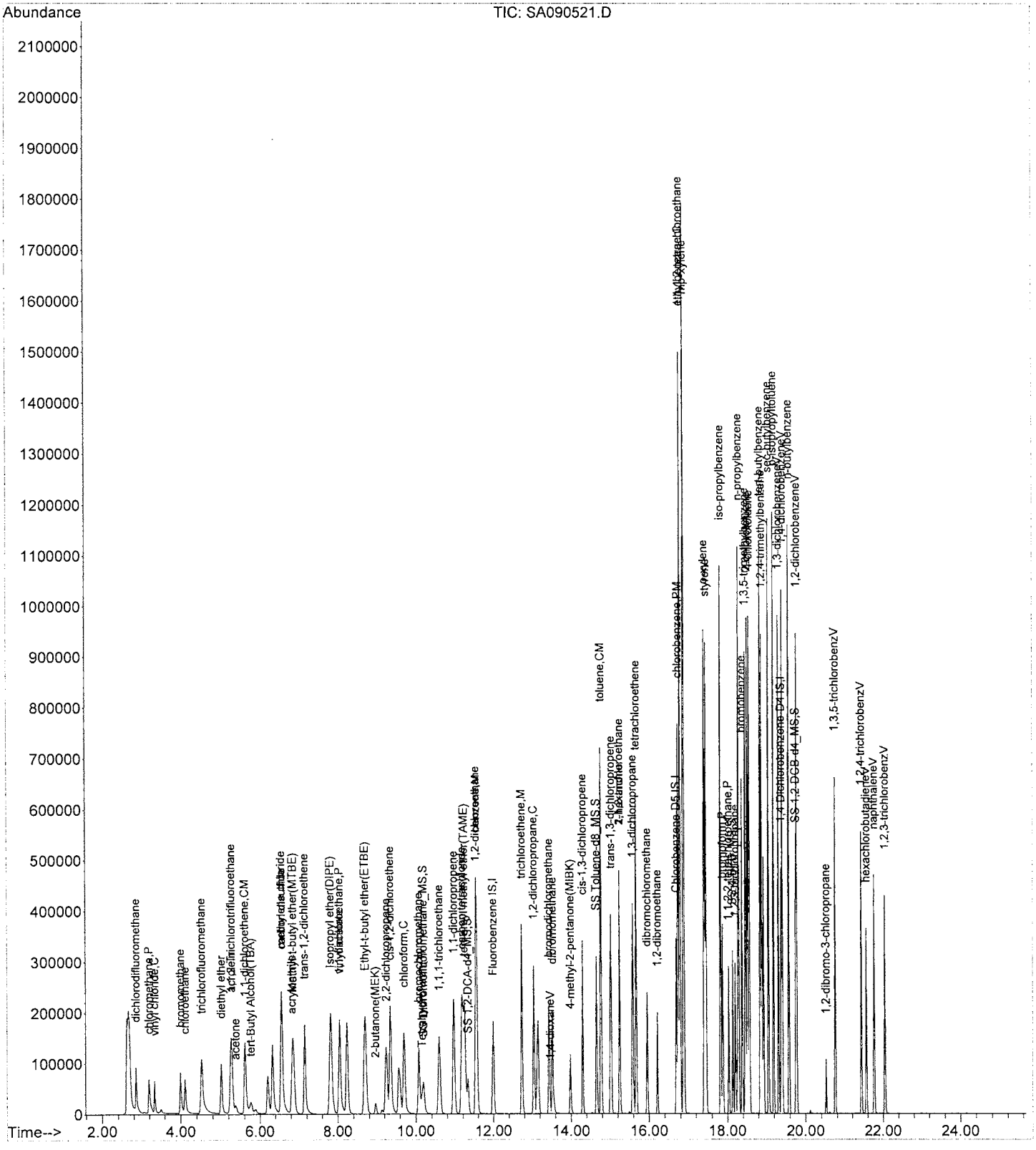
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	trichloroethene	12.73	95	157318	18.911	ug/L		96
40)	1,2-dichloropropane	13.05	63	139188	19.256	ug/L		95
41)	1,4-dioxaneV	13.48	88	1677	25.127	ug/L	#	64
42)	dibromomethane	13.53	93	85153	19.360	ug/L		96
43)	bromodichloromethane	13.44	83	168015	18.546	ug/L		98
45)	4-methyl-2-pentanone(MIBK)	13.98	58	37150	18.156	ug/L		98
46)	cis-1,3-dichloropropene	14.30	75	201912	18.542	ug/L		93
49)	toluene	14.77	91	650009	19.300	ug/L		99
50)	trans-1,3-dichloropropene	15.03	75	183086	17.181	ug/L	#	86
51)	1,1,2-trichloroethane	15.25	83	104491	19.412	ug/L		97
52)	2-hexanone	15.25	43	64007	17.575	ug/L		97
53)	tetrachloroethene	15.67	166	202603	21.961	ug/L	#	94
54)	1,3-dichloropropane	15.59	76	217374	18.718	ug/L		96
55)	dibromochloromethane	15.95	129	129810	17.233	ug/L	#	100
56)	1,2-dibromoethane	16.22	107	128674	18.910	ug/L	#	99
57)	chlorobenzene	16.74	112	459749	19.363	ug/L		96
58)	1,1,1,2-tetrachloroethane	16.79	131	148028	19.228	ug/L		99
59)	ethylbenzene	16.79	91	758184	20.076	ug/L		99
60)	mp-xylene	16.89	106	623208	40.235	ug/L		97
61)	o-xylene	17.41	106	295170	19.393	ug/L		98
62)	styrene	17.46	104	504325	20.494	ug/L		98
63)	bromoform	17.88	173	83525	18.241	ug/L	#	93
64)	iso-propylbenzene	17.83	105	765421	21.425	ug/L		99
67)	bromobenzene	18.38	156	199196	18.803	ug/L		95
68)	1,1,2,2-tetrachloroethane	18.03	83	139128	18.878	ug/L		98
69)	1,2,3-trichloropropane	18.20	110	45987	17.540	ug/L		99
71)	n-propylbenzene	18.28	91	888210	19.347	ug/L		100
72)	2-chlorotoluene	18.51	91	524904	18.168	ug/L		98
73)	4-chlorotoluene	18.56	91	531341	18.420	ug/L		98
74)	1,3,5-trimethylbenzene	18.45	105	557991	18.564	ug/L		98
75)	tert-butylbenzene	18.84	119	558397	18.792	ug/L		98
76)	1,2,4-trimethylbenzene	18.89	105	539376	18.212	ug/L		97
77)	sec-butylbenzene	19.06	105	778515	19.171	ug/L		99
78)	1,3-dichlorobenzeneV	19.32	146	377268	19.217	ug/L		95
79)	p-isopropyltoluene	19.19	119	684091	19.828	ug/L		98
80)	1,4-dichlorobenzeneV	19.42	146	378758	19.395	ug/L		95
81)	1,2-dichlorobenzeneV	19.77	146	345666	18.950	ug/L	#	95
82)	n-butylbenzene	19.58	91	540292	18.943	ug/L		99
84)	1,2-dibromo-3-chloropropan	20.52	157	27430	19.872	ug/L		94
85)	1,3,5-trichlorobenzV	20.75	180	207915	18.395	ug/L		96
86)	1,2,4-trichlorobenzV	21.44	180	183081	19.165	ug/L		95
87)	hexachlorobutadieneV	21.56	225	75224	17.250	ug/L		97
88)	naphthaleneV	21.76	128	403519	18.083	ug/L		99
89)	1,2,3-trichlorobenzV	22.05	180	154279	18.617	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0512\SA090521.D Vial: 21
Acq On : 5 Sep 2012 7:05 pm Operator: BAM
Sample : LCSD 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 13:28 2012 Quant Results File: 5VID0806.RES

Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012
Last Update : Wed Aug 08 13:56:55 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Volatile Organics 524.2

Initial Calibration

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VOAMS5 Analysis Run Log

IS/SS ID= V- 3966 New IS/SS
Standard ID= V- 3968A
Gas Standard ID= V- 3967
LCS/LCSD and/or MS/MSD Standard ID= V- 3963 (L) 3962 (G)

Analyst: [signature]

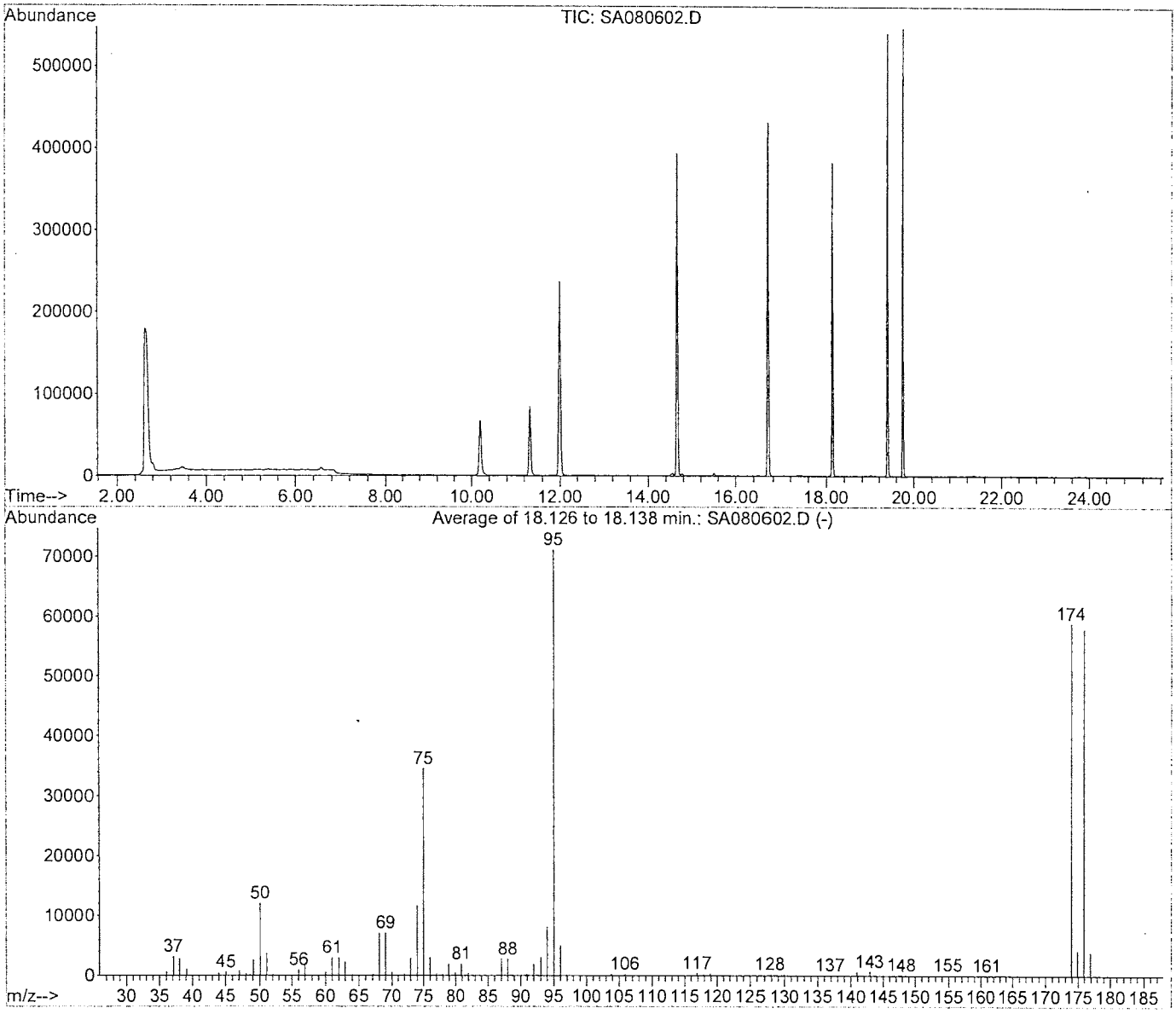
Date: 8/6/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	5A080601	BFB 25ng					VOCMS		AutoFind		
2		BFB					VOCMS		AutoFind		
3		0.2					VOCMS				
4		0.5					VOCMS				
5		1					VOCMS				
6		2					VOCMS				
7		5					VOCMS				
8		10					VOCMS				
9		20					VOCMS				
10		50					VOCMS				
11		50 G					VOCMS				
12		100					VOCMS				
13		100 G					VOCMS				
14		200					VOCMS				
15		200 G					VOCMS				
16		300					VOCMS				
17		300 G					VOCMS				
18		400 G					VOCMS				
19		Blank					VOCMS				
20		|					VOCMS				
21		|					VOCMS				
22		|					VOCMS				
23		LCS 20					VOCMS				
							VOCMS				
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Samples removed from autosampler ✓, order ✓ and pH N/A verified by [signature] 8/7/12 1-23

Data File : W:\1\DATA\AUG12\AUG0612\SA080602.D
Acq On : 6 Aug 2012 8:32 am
Sample : BFB
Misc : x1; 5mL;
MS Integration Params: rteint.p
Method : W:\1\METHODS\2012\5VID0806.M (RTE Integrator)
Title : VOAMS5 08/6/2012

Vial: 2
Operator: BAM
Inst : VOAMS5
Multiplr: 1.00



Spectrum Information: Average of 18.126 to 18.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	12056	PASS
75	95	30	60	48.6	34584	PASS
95	95	100	100	100.0	71146	PASS
96	95	5	9	7.1	5038	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.8	58914	PASS
175	174	5	9	7.1	4187	PASS
176	174	95	101	98.3	57901	PASS
177	176	5	9	6.8	3932	PASS

Response Factor Report VOAMS5

Method : 5LID0806.M
Title : VOAMS5
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D
10	=	SA080608.D	20	=	SA080609.D	50	=	SA080610.D
100	=	SA080612.D	0.5	=	SA080604.D	50G	=	SA080611.D
100G	=	SA080613.D	0.2	=	SA080603.D			

	Compound	1	2	5	10	20	50	100	0.5	50G	100G	0.2	AVG	%RSD
1)	Fluorobenzene IS													
2)	dichlorodifluoromethane	0.347	0.351	0.329	0.323	0.316	NA	NA	0.361	0.321	0.324	NA	0.334	5.00 ok
3)	chloromethane	0.353	0.330	0.315	0.301	0.291	NA	NA	0.373	0.298	0.289	NA	0.319	9.64 ok
4)	vinyl chloride	0.183	0.181	0.159	0.156	0.144	NA	NA	0.185	0.146	0.136	0.201	0.166	13.56 ok
5)	bromomethane	0.202	0.191	0.182	0.186	0.187	NA	NA	0.215	0.201	0.205	NA	0.196	5.83 ok
6)	chloroethane	0.201	0.193	0.179	0.181	0.176	NA	NA	0.205	0.180	0.178	NA	0.187	6.15 ok
7)	trichlorofluoromethane	0.447	0.436	0.424	0.422	0.410	NA	NA	0.446	0.422	0.419	NA	0.428	3.11 ok
8)	diethyl ether	0.209	0.215	0.201	0.197	0.196	0.196	0.197	0.214	NA	NA	NA	0.203	4.00 ok
9)	1,1,2-Trichlorotrifluoroethane	0.315	0.306	0.299	0.291	0.286	0.286	0.288	0.331	NA	NA	NA	0.300	5.47 ok
10)	acetone	NA	0.095	0.090	0.055	0.055	0.054	0.058	NA	NA	NA	NA	0.068	28.35 #
11)	1,1-dichloroethene	0.272	0.273	0.267	0.259	0.257	0.256	0.260	0.296	NA	NA	0.368	0.279	12.77 ok
12)	tert-Butyl Alcohol(TBA)	NA	0.023	0.021	0.020	0.020	0.020	0.021	NA	NA	NA	NA	0.021	5.37 ok
13)	methylene chloride	0.321	0.306	0.293	0.282	0.278	0.275	0.277	0.344	NA	NA	NA	0.297	8.45 ok
14)	carbon disulfide	0.871	0.760	0.719	0.687	0.692	0.701	0.727	1.038	NA	NA	NA	0.774	15.75 ok
15)	acrylonitrile	0.110	0.102	0.096	0.089	0.089	0.088	0.089	0.117	NA	NA	NA	0.098	11.37 ok
16)	Methyl-t-butyl ether(MTBE)	0.749	0.723	0.709	0.682	0.691	0.693	0.693	0.788	NA	NA	0.824	0.728	6.80 ok
17)	trans-1,2-dichloroethene	0.267	0.269	0.258	0.252	0.251	0.257	0.265	0.279	NA	NA	NA	0.262	3.69 ok
18)	hexane	0.366	0.343	0.349	0.330	0.321	0.323	0.337	0.390	NA	NA	NA	0.345	6.84 ok
19)	Isopropyl ether(DIPE)	0.851	0.836	0.818	0.773	0.774	0.783	0.797	0.872	NA	NA	NA	0.813	4.58 ok
20)	vinyl acetate	0.583	0.509	0.448	0.449	0.409	NA	NA	NA	0.488	0.460	NA	0.478	11.71 ok
21)	1,1-dichloroethane	0.486	0.483	0.473	0.451	0.448	0.450	0.458	0.503	NA	NA	NA	0.469	4.35 ok
22)	Ethyl-t-butyl ether(ETBE)	0.777	0.766	0.751	0.712	0.713	0.727	0.746	0.790	NA	NA	NA	0.748	3.86 ok
23)	2,2-dichloropropane	0.420	0.395	0.396	0.383	0.380	0.384	0.406	0.438	NA	NA	NA	0.400	5.02 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5LID0806.M
Title : VOAMS5
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D
10	=	SA080608.D	20	=	SA080609.D	50	=	SA080610.D
100	=	SA080612.D	0.5	=	SA080604.D	50G	=	SA080611.D
100G	=	SA080613.D	0.2	=	SA080603.D			

	Compound	1	2	5	10	20	50	100	0.5	50G	100G	0.2	AVG	%RSD
24)	cis-1,2-dichloroethene	0.378	0.371	0.347	0.341	0.343	0.347	0.352	0.377	NA	NA	NA	0.357	4.36 ok
25)	2-butanone(MEK)	0.123	0.117	0.111	0.090	0.089	0.088	0.092	NA	NA	NA	NA	0.102	14.85 ok
26)	bromochloromethane	0.141	0.141	0.139	0.136	0.138	0.140	0.144	0.141	NA	NA	NA	0.140	1.82 ok
27)	Tetrahydrofuran(THF)	0.086	0.075	0.062	0.057	0.059	0.058	0.060	NA	NA	NA	NA	0.065	16.77 ok
28)	chloroform	0.484	0.476	0.464	0.445	0.448	0.453	0.465	0.504	NA	NA	NA	0.467	4.27 ok
29)	SS Dibromofluoromethane_MS	0.225	0.227	0.223	0.227	0.229	0.232	0.231	0.229	0.228	0.218	0.226	0.227	1.73 ok
30)	1,1,1-trichloroethane	0.405	0.407	0.398	0.391	0.393	0.407	0.418	0.427	NA	NA	NA	0.406	3.02 ok
31)	carbon tetrachloride	0.333	0.327	0.337	0.339	0.352	0.372	0.389	0.339	NA	NA	NA	0.348	6.23 ok
32)	1,1-dichloropropene	0.411	0.398	0.396	0.377	0.376	0.381	0.390	0.412	NA	NA	NA	0.393	3.57 ok
33)	SS 1,2-DCA-d4_MS	0.278	0.278	0.275	0.278	0.275	0.273	0.268	0.278	0.276	0.273	0.274	0.275	1.13 ok
34)	tert-amyl methyl ether(TAME)	0.732	0.717	0.709	0.678	0.683	0.707	0.732	0.763	NA	NA	NA	0.715	3.90 ok
35)	benzene	1.215	1.192	1.160	1.100	1.093	1.117	1.159	1.247	NA	NA	NA	1.160	4.77 ok
36)	1,2-dichloroethane	0.399	0.385	0.368	0.356	0.355	0.355	0.355	0.408	NA	NA	NA	0.373	5.86 ok
37)	trichloroethene	0.326	0.319	0.313	0.295	0.299	0.303	0.317	0.329	NA	NA	NA	0.313	4.03 ok
38)	1,2-dichloropropane	0.289	0.278	0.273	0.263	0.263	0.268	0.275	0.292	NA	NA	NA	0.275	4.01 ok
39)	dibromomethane	0.171	0.168	0.163	0.160	0.161	0.164	0.170	0.177	NA	NA	NA	0.167	3.48 ok
40)	bromodichloromethane	0.328	0.314	0.315	0.319	0.332	0.350	0.368	0.326	NA	NA	0.366	0.335	6.25 ok
41)	4-methyl-2-pentanone(MIBK)	0.077	0.076	0.078	0.073	0.075	0.077	0.081	NA	NA	NA	NA	0.077	2.98 ok
42)	cis-1,3-dichloropropene	0.384	0.377	0.388	0.385	0.399	0.418	0.443	0.391	NA	NA	0.444	0.403	6.32 ok
43)	Chlorobenzene-D5 IS	0.745	0.749	0.740	0.746	0.747	0.756	0.763	0.747	0.745	0.736	0.739	0.747	1.05 ok
44)	SS Toluene-d8_MS	0.961	0.963	0.958	0.955	0.970	0.963	0.976	0.956	0.969	0.959	0.952	0.962	0.74 ok
45)	toluene	1.303	1.253	1.221	1.164	1.173	1.205	1.269	1.370	NA	NA	NA	1.245	5.55 ok

100

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5LID0806.M
Title : VOAMS5
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D
10	=	SA080608.D	20	=	SA080609.D	50	=	SA080610.D
100	=	SA080612.D	0.5	=	SA080604.D	50G	=	SA080611.D
100G	=	SA080613.D	0.2	=	SA080603.D			

	Compound	1	2	5	10	20	50	100	0.5	50G	100G	0.2	AVG	%RSD
46)	trans-1,3-dichloropropene	0.349	0.349	0.364	0.362	0.379	0.407	0.436	0.350	NA	NA	0.387	0.376	7.96 ok
47)	1,1,2-trichloroethane	0.204	0.193	0.194	0.570	0.185	0.190	0.202	0.216	NA	NA	NA	0.244	5.44 ok
48)	2-hexanone	NA	0.146	0.145	0.127	0.127	0.131	0.133	NA	NA	NA	NA	0.135	6.53 ok
49)	tetrachloroethene	0.331	0.323	0.319	0.307	0.311	0.322	0.344	0.344	NA	NA	NA	0.325	4.26 ok
50)	1,3-dichloropropane	0.429	0.415	0.410	0.390	0.395	0.405	0.420	0.435	NA	NA	NA	0.412	3.82 ok
51)	dibromochloromethane	0.203	0.209	0.221	0.229	0.248	0.280	0.309	0.206	NA	NA	NA	0.238	16.13 ok
52)	1,2-dibromoethane	0.244	0.237	0.242	0.232	0.237	0.247	0.262	0.248	NA	NA	NA	0.244	3.72 ok
53)	chlorobenzene	0.894	0.873	0.855	0.816	0.826	0.861	0.910	0.917	NA	NA	NA	0.869	4.26 ok
54)	1,1,1,2-tetrachloroethane	0.248	0.257	0.268	0.270	0.285	0.313	0.329	0.248	NA	NA	NA	0.277	10.83 ok
55)	ethylbenzene	1.433	1.419	1.402	1.357	1.387	1.451	1.506	1.466	NA	NA	NA	1.428	3.30 ok
56)	mp-xylene	0.569	0.567	0.571	0.553	0.568	0.600	0.611	0.580	NA	NA	0.645	0.585	4.96 ok
57)	o-xylene	0.546	0.548	0.545	0.529	0.537	0.563	0.599	0.543	NA	NA	NA	0.551	3.94 ok
58)	styrene	0.854	0.866	0.874	0.852	0.881	0.932	0.991	0.891	NA	NA	NA	0.893	5.27 ok
59)	bromoform	0.106	0.107	0.117	0.126	0.146	0.170	NA	0.101	NA	NA	NA	0.125	20.27 #
60)	iso-propylbenzene	1.300	1.300	1.292	1.259	1.288	1.355	1.419	1.341	NA	NA	NA	1.319	3.82 ok
61)	SS 4-BFB_MS	0.368	0.375	0.369	0.373	0.378	0.380	0.388	0.375	0.371	0.362	0.369	0.373	1.88 ok
62)	1,4-Dichlorobenzene-D4 IS	0.393	0.399	0.399	0.400	0.414	0.418	0.430	0.394	0.397	0.386	0.392	0.402	3.30 ok
63)	bromobenzene	0.359	0.360	0.354	0.342	0.352	0.372	0.398	0.385	NA	NA	NA	0.365	5.09 ok
64)	1,1,2,2-tetrachloroethane	0.258	0.254	0.252	0.247	0.247	0.259	0.267	0.261	NA	NA	NA	0.256	2.72 ok
65)	1,2,3-trichloropropane	0.097	0.088	0.089	0.084	0.087	0.089	0.095	0.089	NA	NA	NA	0.090	4.66 ok
66)	n-propylbenzene	1.606	1.614	1.620	1.573	1.607	1.670	1.742	1.663	NA	NA	NA	1.637	3.23 ok
67)	2-chlorotoluene	1.024	1.024	1.001	0.962	0.990	1.028	1.070	1.061	NA	NA	NA	1.020	3.51 ok

(#) = Out of Range

Response Factor Report VOAMS5

Method : 5LID0806.M
Title : VOAMS5
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration

Calibration Files

1	=	SA080605.D	2	=	SA080606.D	5	=	SA080607.D
10	=	SA080608.D	20	=	SA080609.D	50	=	SA080610.D
100	=	SA080612.D	0.5	=	SA080604.D	50G	=	SA080611.D
100G	=	SA080613.D	0.2	=	SA080603.D			

	Compound	1	2	5	10	20	50	100	0.5	50G	100G	0.2	AVG	%RSD
68)	4-chlorotoluene	1.015	1.003	0.989	0.964	0.993	1.040	1.096	1.048	NA	NA	NA	1.018	4.08 ok
69)	1,3,5-trimethylbenzene	0.898	0.906	0.968	0.969	1.054	1.171	1.256	0.870	NA	NA	NA	1.012	13.72 ok
70)	tert-butylbenzene	1.013	1.018	1.017	1.003	1.025	1.088	1.139	1.062	NA	NA	NA	1.045	4.53 ok
71)	1,2,4-trimethylbenzene	0.854	0.883	0.950	0.947	1.035	1.176	1.267	0.854	NA	NA	NA	0.996	15.43 ok
72)	sec-butylbenzene	1.383	1.405	1.405	1.387	1.436	1.521	1.569	1.423	NA	NA	NA	1.441	4.69 ok
73)	1,3-dichlorobenzeneV	0.678	0.662	0.658	0.645	0.667	0.709	0.760	0.699	NA	NA	NA	0.685	5.42 ok
74)	p-isopropyltoluene	1.100	1.141	1.178	1.189	1.242	1.330	1.378	1.085	NA	NA	NA	1.205	8.73 ok
75)	1,4-dichlorobenzeneV	0.664	0.662	0.660	0.645	0.663	0.705	0.759	0.702	NA	NA	NA	0.683	5.47 ok
76)	1,2-dichlorobenzeneV	0.636	0.627	0.613	0.593	0.615	0.654	0.697	0.653	NA	NA	NA	0.636	5.06 ok
77)	n-butylbenzene	0.886	0.936	0.978	0.978	1.017	1.091	1.136	0.869	NA	NA	NA	0.986	9.44 ok
78)	SS 1,2-DCB-d4_MS	0.369	0.378	0.377	0.378	0.389	0.399	0.404	0.372	0.373	0.362	0.370	0.379	3.44 ok
79)	1,2-dibromo-3-chloropropane	0.039	0.039	0.042	0.045	0.050	0.057	0.061	0.039	NA	NA	NA	0.047	18.77 ok
80)	1,3,5-trichlorobenzV	0.358	0.364	0.366	0.359	0.379	0.411	0.442	0.357	NA	NA	NA	0.380	8.19 ok
81)	1,2,4-trichlorobenzV	0.286	0.295	0.303	0.299	0.323	0.348	0.376	0.287	NA	NA	NA	0.315	10.33 ok
82)	hexachlorobutadieneV	0.138	0.139	0.139	0.138	0.143	0.154	0.167	0.147	NA	NA	0.150	0.146	6.61 ok
83)	naphthaleneV	0.515	0.584	0.643	0.695	0.766	0.839	NA	0.480	NA	NA	NA	0.646	20.27 #
84)	1,2,3-trichlorobenzV	0.250	0.257	0.263	0.259	0.279	0.301	0.321	0.230	NA	NA	NA	0.270	10.84 ok
85)	SS 2,5-DBT_MS	NA	0.031	0.046	0.054	0.068	0.088	0.093	NA	NA	NA	NA	0.063	38.37 #

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:42:01 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	321600	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	118518	9.25	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.52%				
78) SS 1,2-DCB-d4_MS	19.75	152	118999	9.75	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.51%				
Target Compounds							Qvalue
4) vinyl chloride	3.34	62	1293	0.180	ug/L		97
11) 1,1-dichloroethene	5.62	96	2366	0.348	ug/L	#	81
16) Methyl-t-butyl ether(MTBE)	6.86	73	10606	0.503	ug/L	#	93
29) SS Dibromofluoromethane_MS	10.20	111	72699	9.974	ug/L	#	95
33) SS 1,2-DCA-d4_MS	11.33	65	88149	9.874	ug/L		98
40) bromodichloromethane	13.44	83	2352	0.231	ug/L		97
42) cis-1,3-dichloropropene	14.30	75	2857	0.224	ug/L	#	74
43) Chlorobenzene-D5 IS	16.69	117	237612	9.550	ug/L		98
44) SS Toluene-d8_MS	14.65	98	306251	9.562	ug/L		99
46) trans-1,3-dichloropropene	15.03	75	2486	0.207	ug/L	#	84
56) mp-xylene	16.88	106	8303	0.449	ug/L		99
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	125934	9.551	ug/L		92
82) hexachlorobutadieneV	21.56	225	962	0.199	ug/L		93
85) SS 2,5-DBT_MS	23.36	250	39	1.551	ug/L	#	42

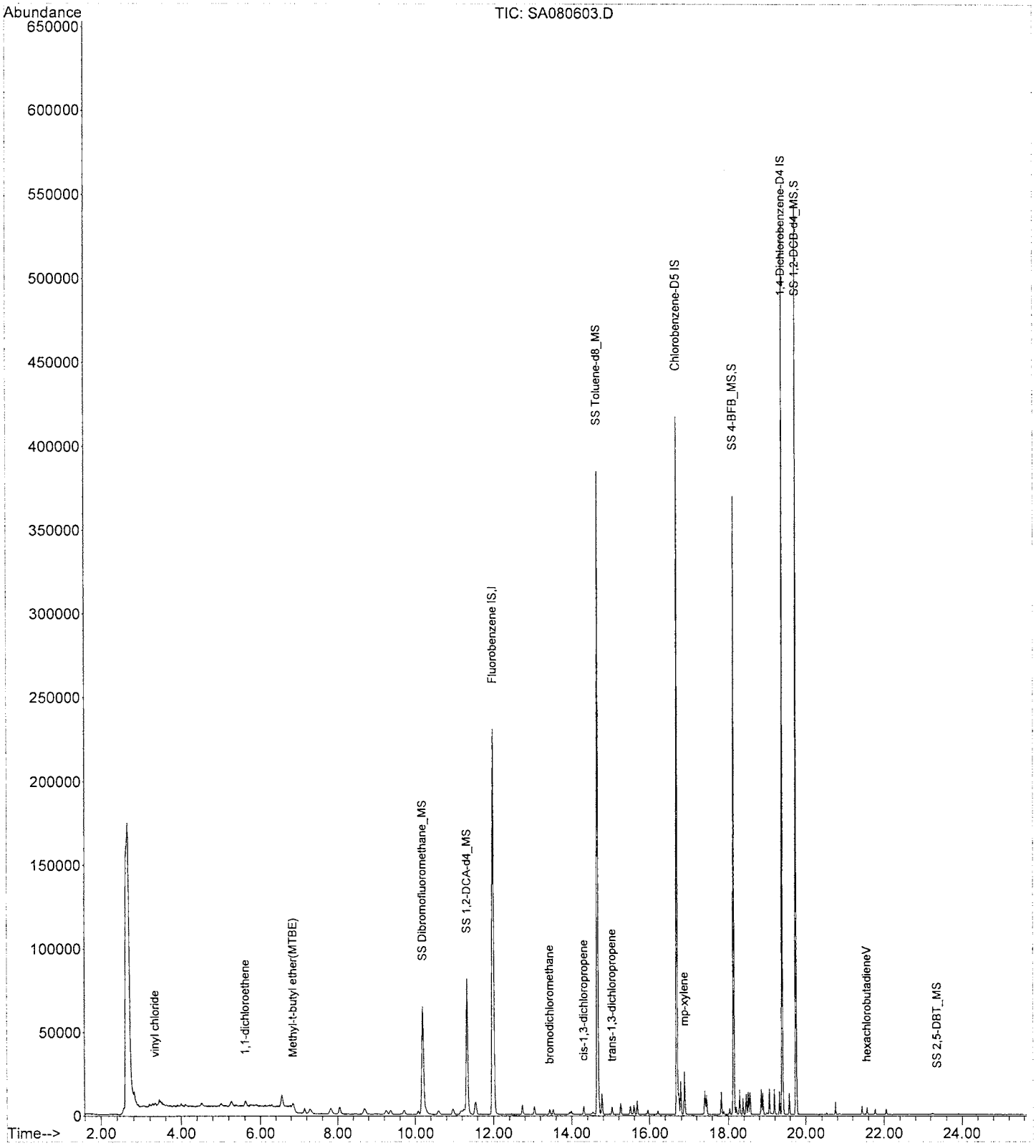
BDM 8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\AUG12\AUG0612\SA080603.D Vial: 3
Acq On : 6 Aug 2012 9:15 am Operator: BAM
Sample : 0.2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:43 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:43:20 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316040	10.000 ug/L	0.00
System Monitoring Compounds					
61) SS 4-BFB_MS	18.13	95	118398	9.41 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.05%		
78) SS 1,2-DCB-d4_MS	19.75	152	117461	9.79 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.95%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.86	85	5712	0.554 ug/L #	97
3) chloromethane	3.19	50	5892	0.646 ug/L	94
4) vinyl chloride	3.34	62	2922	0.413 ug/L	98
5) bromomethane	3.99	94	3404	0.647 ug/L	86
6) chloroethane	4.11	64	3240	0.684 ug/L #	91
7) trichlorofluoromethane	4.52	101	7047	0.613 ug/L	98
8) diethyl ether	5.01	59	3377	0.608 ug/L #	78
9) 1,1,2-Trichlorotrifluoroet	5.27	101	5236	0.669 ug/L	99
11) 1,1-dichloroethene	5.62	96	4670	0.699 ug/L	89
13) methylene chloride	6.55	84	5437	0.661 ug/L	95
14) carbon disulfide	6.57	76	16403	0.895 ug/L	97
15) acrylonitrile	6.81	53	1850	0.677 ug/L #	88
16) Methyl-t-butyl ether(MTBE)	6.85	73	24890	1.202 ug/L	96
17) trans-1,2-dichloroethene	7.14	96	4413	0.548 ug/L	96
18) hexane	7.29	57	6167	0.546 ug/L	98
19) Isopropyl ether(DIPE)	7.82	45	13775	0.552 ug/L #	60
20) vinyl acetate	8.05	43	412068	43.596 ug/L	99
21) 1,1-dichloroethane	8.04	63	7954	0.544 ug/L	98
22) Ethyl-t-butyl ether(ETBE)	8.70	59	12481	0.510 ug/L #	94
23) 2,2-dichloropropane	9.26	77	6916	0.570 ug/L #	90
24) cis-1,2-dichloroethene	9.35	61	5953	0.511 ug/L	96
25) 2-butanone(MEK)	8.98	43	2327	0.670 ug/L #	56
26) bromochloromethane	10.07	128	2234	0.533 ug/L	96
27) Tetrahydrofuran(THF)	10.16	42	1823	0.899 ug/L #	76
28) chloroform	9.71	83	7964	0.540 ug/L	98
29) SS Dibromofluoromethane_MS	10.20	111	72400	10.107 ug/L #	95
30) 1,1,1-trichloroethane	10.59	97	6740	0.539 ug/L	99
31) carbon tetrachloride	11.17	117	5352	0.547 ug/L #	96
32) 1,1-dichloropropene	10.97	75	6506	0.519 ug/L #	83
33) SS 1,2-DCA-d4_MS	11.33	65	87751	10.003 ug/L	98
34) tert-amyl methyl ether(TAM	11.25	73	12064	0.549 ug/L #	90
35) benzene	11.56	78	19700	0.553 ug/L	99
36) 1,2-dichloroethane	11.53	62	6446	0.545 ug/L	99
37) trichloroethene	12.73	95	5202	0.548 ug/L	95
38) 1,2-dichloropropane	13.05	63	4617	0.535 ug/L #	88
39) dibromomethane	13.53	93	2795	0.560 ug/L	97
40) bromodichloromethane	13.44	83	5151	0.515 ug/L	96
41) 4-methyl-2-pentanone(MIBK)	13.99	58	1174	0.425 ug/L #	21
42) cis-1,3-dichloropropene	14.30	75	6183	0.493 ug/L #	86
43) Chlorobenzene-D5 IS	16.69	117	236074	9.655 ug/L	98
44) SS Toluene-d8_MS	14.65	98	302232	9.602 ug/L	99
45) toluene	14.77	91	21653	0.549 ug/L	98
46) trans-1,3-dichloropropene	15.03	75	5532	0.468 ug/L #	85

(#) = qualifier out of range (m) = manual integration
SA080604.D 5LID0806.M Wed Sep 12 10:20:35 2012

Data File : C:\MSDCHEM\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:43:20 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
47)	1,1,2-trichloroethane	15.25	83	3408	0.557 ug/L		95
48)	2-hexanone	15.25	43	2506	0.509 ug/L		89
49)	tetrachloroethene	15.67	166	5436	0.556 ug/L		97
50)	1,3-dichloropropane	15.59	76	6870	0.515 ug/L	#	83
51)	dibromochloromethane	15.95	129	3252	0.480 ug/L	#	97
52)	1,2-dibromoethane	16.22	107	3916	0.510 ug/L	#	96
53)	chlorobenzene	16.74	112	14485	0.539 ug/L		99
54)	1,1,1,2-tetrachloroethane	16.78	131	3917	0.513 ug/L	#	70
55)	ethylbenzene	16.79	91	23171	0.504 ug/L		97
56)	mp-xylene	16.89	106	18338	1.008 ug/L		97
57)	o-xylene	17.41	106	8581	0.494 ug/L		96
58)	styrene	17.46	104	14085	0.469 ug/L		99
59)	bromoform	17.89	173	1593	0.486 ug/L	#	87
60)	iso-propylbenzene	17.83	105	21187	0.499 ug/L		97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	124392	9.600 ug/L		93
63)	bromobenzene	18.37	156	6081	0.547 ug/L		95
64)	1,1,2,2-tetrachloroethane	18.03	83	4130	0.450 ug/L	#	1
65)	1,2,3-trichloropropane	18.20	110	1407	0.465 ug/L		90
66)	n-propylbenzene	18.28	91	26283	0.487 ug/L		98
67)	2-chlorotoluene	18.51	91	16772	0.503 ug/L		97
68)	4-chlorotoluene	18.56	91	16564	0.488 ug/L		98
69)	1,3,5-trimethylbenzene	18.45	105	13751	0.363 ug/L		98
70)	tert-butylbenzene	18.84	119	16780	0.505 ug/L		99
71)	1,2,4-trimethylbenzene	18.89	105	13490	0.344 ug/L		99
72)	sec-butylbenzene	19.06	105	22483	0.475 ug/L		97
73)	1,3-dichlorobenzeneV	19.32	146	11039	0.526 ug/L		97
74)	p-isopropyltoluene	19.19	119	17147	0.426 ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	11095m	0.522 ug/L		
76)	1,2-dichlorobenzeneV	19.78	146	10321	0.517 ug/L	#	1
77)	n-butylbenzene	19.58	91	13739	0.396 ug/L		98
79)	1,2-dibromo-3-chloropropan	20.52	157	613	0.374 ug/L		97
80)	1,3,5-trichlorobenzV	20.75	180	5640	0.454 ug/L		98
81)	1,2,4-trichlorobenzV	21.44	180	4530	0.430 ug/L		98
82)	hexachlorobutadieneV	21.56	225	2318	0.488 ug/L		97
83)	naphthaleneV	21.76	128	7582	0.287 ug/L		98
84)	1,2,3-trichlorobenzV	22.05	180	3642	0.396 ug/L		97
85)	SS 2,5-DBT_MS	23.36	250	327	1.659 ug/L	#	59

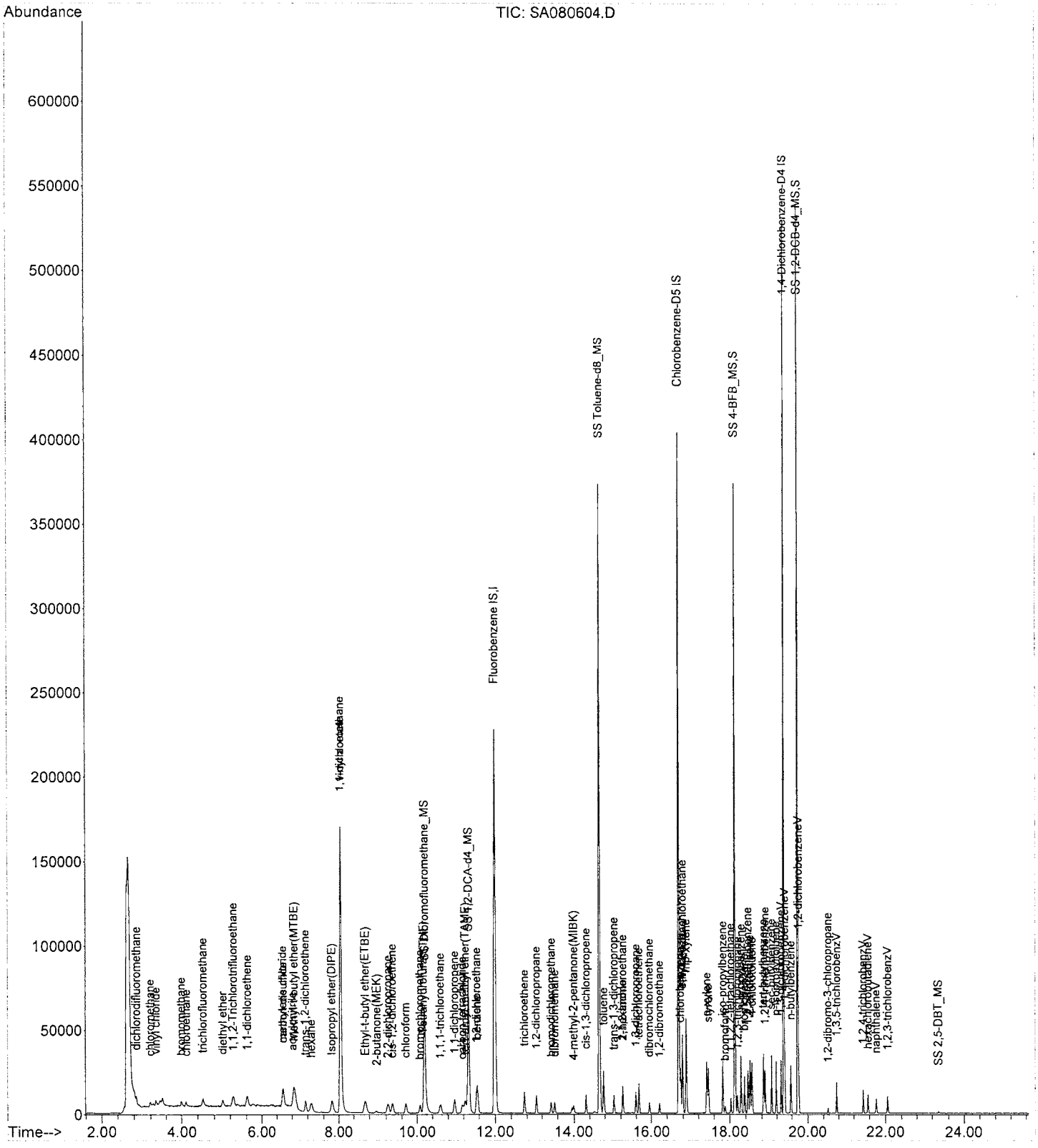
BAM 8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\AUG12\AUG0612\SA080604.D Vial: 4
Acq On : 6 Aug 2012 9:49 am Operator: BAM
Sample : 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:44 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:44:40 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	316523	10.000 ug/L	0.00
System Monitoring Compounds					
61) SS 4-BFB_MS	18.13	95	116550	9.24 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.44%		
78) SS 1,2-DCB-d4_MS	19.75	152	116665	9.71 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.13%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	10987	1.063 ug/L	99
3) chloromethane	3.20	50	11177	1.223 ug/L	100
4) vinyl chloride	3.34	62	5803	0.819 ug/L	99
5) bromomethane	3.99	94	6397	1.214 ug/L	93
6) chloroethane	4.11	64	6376	1.344 ug/L	95
7) trichlorofluoromethane	4.52	101	14147	1.229 ug/L	99
8) diethyl ether	5.02	59	6606	1.188 ug/L #	83
9) 1,1,2-Trichlorotrifluoroet	5.28	101	9980	1.273 ug/L	97
10) acetone	5.39	43	3469	Below Cal	98
11) 1,1-dichloroethene	5.62	96	8605	1.285 ug/L	94
12) tert-Butyl Alcohol(TBA)	5.78	59	3824m	6.005 ug/L	
13) methylene chloride	6.56	84	10149	1.233 ug/L	95
14) carbon disulfide	6.57	76	27555	1.501 ug/L #	94
15) acrylonitrile	6.82	53	3487	1.273 ug/L	93
16) Methyl-t-butyl ether(MTBE)	6.85	73	47439	2.287 ug/L	99
17) trans-1,2-dichloroethene	7.15	96	8464	1.050 ug/L	97
18) hexane	7.29	57	11572	1.023 ug/L	97
19) Isopropyl ether(DIPE)	7.82	45	26945	1.079 ug/L	95
20) vinyl acetate	8.05	43	18443	1.948 ug/L	98
21) 1,1-dichloroethane	8.04	63	15382	1.050 ug/L #	98
22) Ethyl-t-butyl ether(ETBE)	8.70	59	24595	1.003 ug/L #	93
23) 2,2-dichloropropane	9.25	77	13302	1.095 ug/L	91
24) cis-1,2-dichloroethene	9.35	61	11954	1.024 ug/L	97
25) 2-butanone(MEK)	8.96	43	3906	1.123 ug/L #	90
26) bromochloromethane	10.07	128	4477	1.066 ug/L	98
27) Tetrahydrofuran(THF)	10.15	42	2714	1.336 ug/L #	87
28) chloroform	9.71	83	15315	1.038 ug/L	99
29) SS Dibromofluoromethane_MS	10.20	111	71321	9.941 ug/L #	94
30) 1,1,1-trichloroethane	10.60	97	12810	1.024 ug/L	97
31) carbon tetrachloride	11.17	117	10537	1.075 ug/L #	97
32) 1,1-dichloropropene	10.97	75	13006	1.036 ug/L #	88
33) SS 1,2-DCA-d4_MS	11.33	65	87915	10.006 ug/L	99
34) tert-amyl methyl ether(TAM	11.25	73	23160	1.053 ug/L	95
35) benzene	11.56	78	38463	1.078 ug/L	99
36) 1,2-dichloroethane	11.53	62	12624	1.067 ug/L	99
37) trichloroethene	12.73	95	10323	1.085 ug/L	95
38) 1,2-dichloropropane	13.05	63	9136	1.058 ug/L #	92
39) dibromomethane	13.53	93	5408	1.083 ug/L	98
40) bromodichloromethane	13.44	83	10369	1.035 ug/L	99
41) 4-methyl-2-pentanone(MIBK)	13.99	58	2434	0.879 ug/L #	78
42) cis-1,3-dichloropropene	14.30	75	12152	0.968 ug/L #	89
43) Chlorobenzene-D5 IS	16.69	117	235668	9.624 ug/L	98
44) SS Toluene-d8_MS	14.65	98	304199	9.650 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:44:40 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	toluene	14.77	91	41249	1.043 ug/L		99
46)	trans-1,3-dichloropropene	15.03	75	11039	0.933 ug/L	#	87
47)	1,1,2-trichloroethane	15.25	83	6461	1.053 ug/L		97
48)	2-hexanone	15.25	43	4837	0.981 ug/L		90
49)	tetrachloroethene	15.67	166	10478	1.069 ug/L	#	97
50)	1,3-dichloropropane	15.59	76	13576	1.016 ug/L		89
51)	dibromochloromethane	15.95	129	6441	0.948 ug/L	#	100
52)	1,2-dibromoethane	16.22	107	7725	1.004 ug/L	#	98
53)	chlorobenzene	16.74	112	28294	1.050 ug/L		98
54)	1,1,1,2-tetrachloroethane	16.78	131	7840	1.024 ug/L	#	73
55)	ethylbenzene	16.79	91	45367	0.986 ug/L		98
56)	mp-xylene	16.89	106	35991	1.976 ug/L		98
57)	o-xylene	17.41	106	17284	0.993 ug/L		99
58)	styrene	17.46	104	27043	0.899 ug/L		99
59)	bromoform	17.88	173	3359	1.024 ug/L	#	93
60)	iso-propylbenzene	17.83	105	41159	0.967 ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	124287	9.578 ug/L		93
63)	bromobenzene	18.38	156	11354	1.019 ug/L		97
64)	1,1,2,2-tetrachloroethane	18.03	83	8170	0.888 ug/L	#	1
65)	1,2,3-trichloropropane	18.21	110	3070	1.014 ug/L		91
66)	n-propylbenzene	18.28	91	50832	0.940 ug/L		99
67)	2-chlorotoluene	18.51	91	32423	0.970 ug/L		97
68)	4-chlorotoluene	18.56	91	32127	0.945 ug/L		98
69)	1,3,5-trimethylbenzene	18.45	105	28415	0.748 ug/L		99
70)	tert-butylbenzene	18.84	119	32051	0.962 ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	27025	0.689 ug/L		96
72)	sec-butylbenzene	19.06	105	43785	0.923 ug/L		97
73)	1,3-dichlorobenzeneV	19.32	146	21465	1.021 ug/L		97
74)	p-isopropyltoluene	19.19	119	34821	0.864 ug/L		97
75)	1,4-dichlorobenzeneV	19.42	146	21026	0.989 ug/L		93
76)	1,2-dichlorobenzeneV	19.78	146	20120	1.006 ug/L	#	49
77)	n-butylbenzene	19.58	91	28034	0.806 ug/L		99
79)	1,2-dibromo-3-chloropropan	20.52	157	1240	0.756 ug/L		97
80)	1,3,5-trichlorobenzV	20.75	180	11318	0.910 ug/L		98
81)	1,2,4-trichlorobenzV	21.44	180	9038	0.857 ug/L		97
82)	hexachlorobutadieneV	21.56	225	4376	0.920 ug/L		96
83)	naphthaleneV	21.76	128	16286	0.616 ug/L		99
84)	1,2,3-trichlorobenzV	22.05	180	7901	0.857 ug/L		98
85)	SS 2,5-DBT_MS	23.36	250	779	1.828 ug/L	#	88

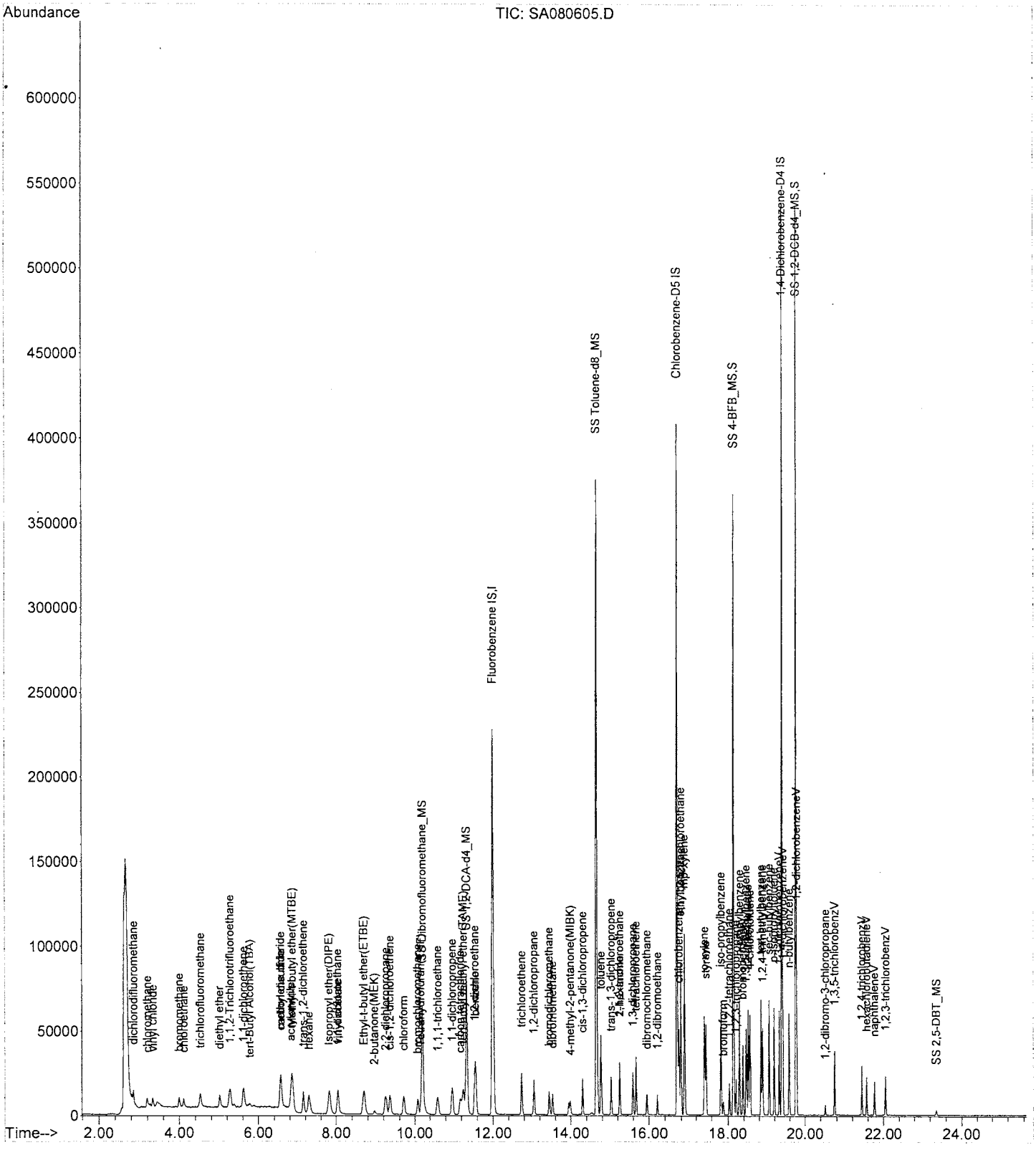
Bem 8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080605.D Vial: 5
Acq On : 6 Aug 2012 10:23 am Operator: BAM
Sample : 1 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:44 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:45:38 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	311125	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	116701	9.42	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.17%				
78) SS 1,2-DCB-d4_MS	19.75	152	117640	9.96	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.64%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	21865	2.152	ug/L		97
3) chloromethane	3.19	50	20517	2.285	ug/L		99
4) vinyl chloride	3.34	62	11275	1.618	ug/L		99
5) bromomethane	3.99	94	11888	2.295	ug/L		96
6) chloroethane	4.11	64	11981	2.569	ug/L		96
7) trichlorofluoromethane	4.52	101	27154	2.399	ug/L		97
8) diethyl ether	5.01	59	13374	2.447	ug/L		92
9) 1,1,2-Trichlorotrifluoroet	5.27	101	19045	2.471	ug/L		97
10) acetone	5.38	43	5911	1.270	ug/L		94
11) 1,1-dichloroethene	5.61	96	17012	2.585	ug/L		92
12) tert-Butyl Alcohol(TBA)	5.76	59	7098	11.339	ug/L	#	89
13) methylene chloride	6.55	84	19040	2.353	ug/L		95
14) carbon disulfide	6.57	76	47284	2.621	ug/L		98
15) acrylonitrile	6.81	53	6364	2.365	ug/L		94
16) Methyl-t-butyl ether(MTBE)	6.85	73	89987	4.414	ug/L		99
17) trans-1,2-dichloroethene	7.15	96	16725	2.112	ug/L		97
18) hexane	7.28	57	21323	1.918	ug/L		97
19) Isopropyl ether(DIPE)	7.82	45	51994	2.118	ug/L		96
20) vinyl acetate	8.05	43	31655	3.402	ug/L		99
21) 1,1-dichloroethane	8.05	63	30031	2.085	ug/L		99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	47648	1.977	ug/L	#	95
23) 2,2-dichloropropane	9.24	77	24594	2.060	ug/L		92
24) cis-1,2-dichloroethene	9.36	61	23071	2.010	ug/L		96
25) 2-butanone(MEK)	8.96	43	7291	2.133	ug/L		94
26) bromochloromethane	10.08	128	8772	2.125	ug/L		97
27) Tetrahydrofuran(THF)	10.16	42	4673	2.340	ug/L		92
28) chloroform	9.70	83	29613	2.041	ug/L		97
29) SS Dibromofluoromethane_MS	10.19	111	70681	10.023	ug/L	#	95
30) 1,1,1-trichloroethane	10.59	97	25340	2.060	ug/L		98
31) carbon tetrachloride	11.17	117	20325	2.110	ug/L	#	96
32) 1,1-dichloropropene	10.97	75	24741	2.004	ug/L		90
33) SS 1,2-DCA-d4_MS	11.33	65	86459	10.011	ug/L		98
34) tert-amyl methyl ether(TAM	11.24	73	44633	2.064	ug/L		97
35) benzene	11.56	78	74146	2.115	ug/L		99
36) 1,2-dichloroethane	11.53	62	23978	2.061	ug/L		99
37) trichloroethene	12.73	95	19845	2.123	ug/L		95
38) 1,2-dichloropropane	13.05	63	17299	2.038	ug/L	#	93
39) dibromomethane	13.53	93	10439	2.126	ug/L	#	98
40) bromodichloromethane	13.44	83	19536	1.984	ug/L		96
41) 4-methyl-2-pentanone(MIBK)	13.99	58	4759	1.748	ug/L	#	50
42) cis-1,3-dichloropropene	14.30	75	23468	1.902	ug/L	#	91
43) Chlorobenzene-D5 IS	16.69	117	233148	9.686	ug/L		98
44) SS Toluene-d8_MS	14.65	98	299524	9.667	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:45:38 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	toluene	14.77	91	77950	2.006 ug/L	99
46)	trans-1,3-dichloropropene	15.03	75	21698	1.866 ug/L	92
47)	1,1,2-trichloroethane	15.25	83	12011	1.992 ug/L	98
48)	2-hexanone	15.25	43	9095	1.877 ug/L	92
49)	tetrachloroethene	15.67	166	20088	2.086 ug/L	96
50)	1,3-dichloropropane	15.59	76	25839	1.968 ug/L	91
51)	dibromochloromethane	15.95	129	12989	1.946 ug/L #	98
52)	1,2-dibromoethane	16.22	107	14738	1.949 ug/L #	99
53)	chlorobenzene	16.74	112	54350	2.053 ug/L	98
54)	1,1,1,2-tetrachloroethane	16.78	131	16022	2.129 ug/L	98
55)	ethylbenzene	16.79	91	88316	1.953 ug/L	98
56)	mp-xylene	16.88	106	70544	3.940 ug/L	97
57)	o-xylene	17.41	106	34099	1.994 ug/L	97
58)	styrene	17.46	104	53896	1.823 ug/L	99
59)	bromoform	17.88	173	6642	2.059 ug/L #	94
60)	iso-propylbenzene	17.82	105	80881	1.934 ug/L	98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	124069	9.727 ug/L	93
63)	bromobenzene	18.38	156	22423	2.048 ug/L	95
64)	1,1,2,2-tetrachloroethane	18.04	83	15817	1.750 ug/L #	1
65)	1,2,3-trichloropropane	18.20	110	5503	1.849 ug/L	98
66)	n-propylbenzene	18.28	91	100427	1.889 ug/L	98
67)	2-chlorotoluene	18.51	91	63734	1.941 ug/L	98
68)	4-chlorotoluene	18.56	91	62393	1.867 ug/L	97
69)	1,3,5-trimethylbenzene	18.45	105	56406	1.511 ug/L	97
70)	tert-butylbenzene	18.84	119	63320	1.934 ug/L	98
71)	1,2,4-trimethylbenzene	18.89	105	54935	1.425 ug/L	98
72)	sec-butylbenzene	19.06	105	87436	1.876 ug/L	98
73)	1,3-dichlorobenzeneV	19.32	146	41188	1.993 ug/L	99
74)	p-isopropyltoluene	19.19	119	70986	1.792 ug/L	97
75)	1,4-dichlorobenzeneV	19.42	146	41223	1.972 ug/L	98
76)	1,2-dichlorobenzeneV	19.77	146	39028	1.985 ug/L #	86
77)	n-butylbenzene	19.58	91	58226	1.704 ug/L	98
79)	1,2-dibromo-3-chloropropan	20.52	157	2421	1.502 ug/L	99
80)	1,3,5-trichlorobenzV	20.75	180	22668	1.855 ug/L	99
81)	1,2,4-trichlorobenzV	21.44	180	18354	1.770 ug/L	97
82)	hexachlorobutadieneV	21.56	225	8658	1.851 ug/L	96
83)	naphthaleneV	21.76	128	36346	1.398 ug/L	100
84)	1,2,3-trichlorobenzV	22.05	180	15984	1.763 ug/L	97
85)	SS 2,5-DBT_MS	23.36	250	1906	2.262 ug/L	94

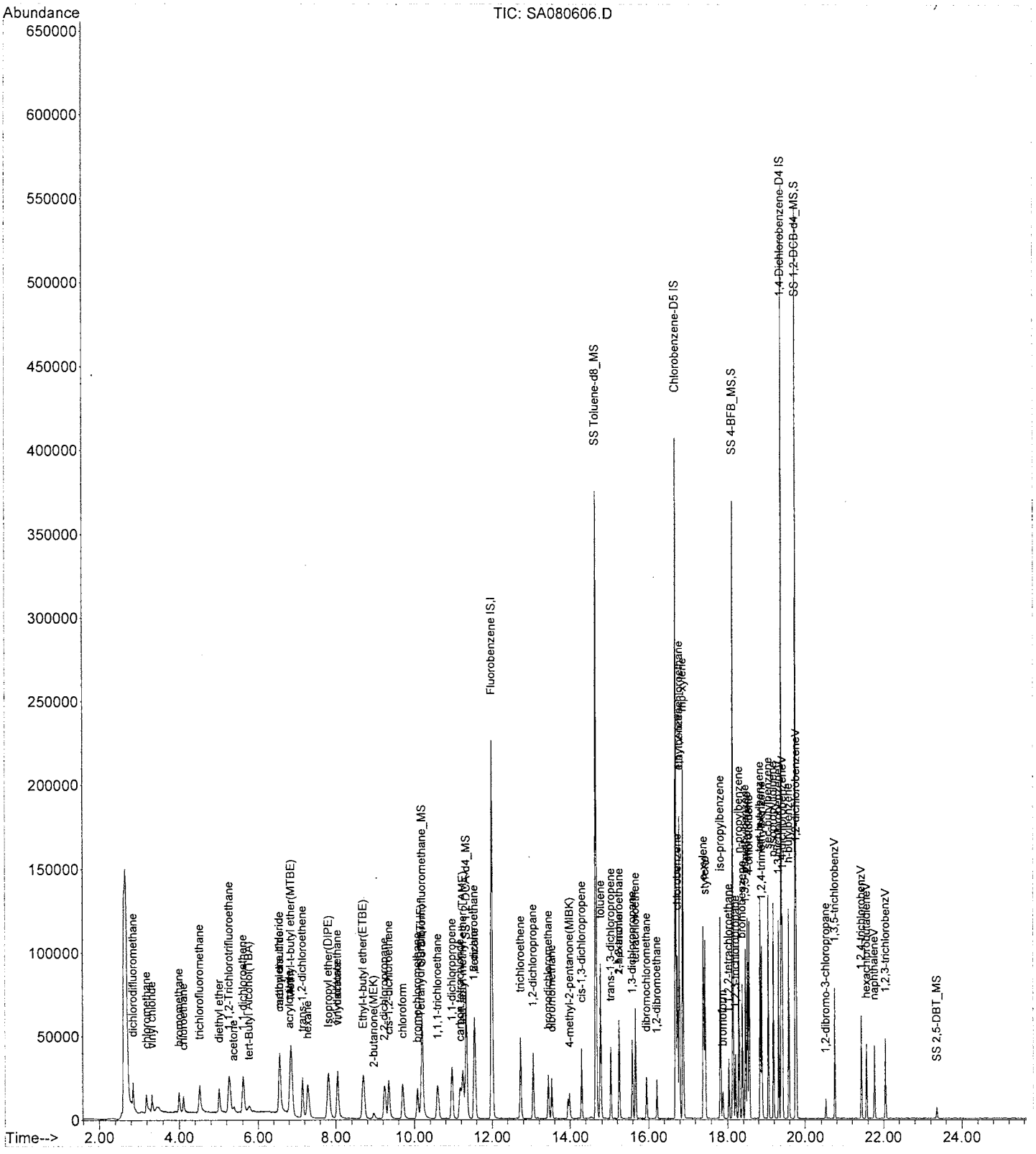
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA080606.D 5LID0806.M Wed Sep 12 10:22:06 2012 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080606.D Vial: 6
Acq On : 6 Aug 2012 10:57 am Operator: BAM
Sample : 2 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:45 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:46:29 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	323591	10.000 ug/L	0.00
System Monitoring Compounds					
61) SS 4-BFB_MS	18.13	95	119539	9.27 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.74%		
78) SS 1,2-DCB-d4_MS	19.75	152	122063	9.94 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.41%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	53171	5.033 ug/L	100
3) chloromethane	3.19	50	50935	5.454 ug/L	99
4) vinyl chloride	3.34	62	25654	3.541 ug/L	99
5) bromomethane	3.99	94	29457	5.468 ug/L	98
6) chloroethane	4.11	64	29011	5.980 ug/L	97
7) trichlorofluoromethane	4.52	101	68568	5.825 ug/L	99
8) diethyl ether	5.02	59	32583	5.732 ug/L	93
9) 1,1,2-Trichlorotrifluoroet	5.27	101	48383	6.036 ug/L	97
10) acetone	5.38	43	14589	5.526 ug/L	96
11) 1,1-dichloroethene	5.61	96	43165	6.306 ug/L	92
12) tert-Butyl Alcohol(TBA)	5.76	59	17125	26.303 ug/L	92
13) methylene chloride	6.55	84	47335	5.624 ug/L	96
14) carbon disulfide	6.57	76	116259	6.196 ug/L	97
15) acrylonitrile	6.81	53	15473	5.527 ug/L	96
16) Methyl-t-butyl ether(MTBE)	6.85	73	229512	10.823 ug/L	99
17) trans-1,2-dichloroethene	7.15	96	41764	5.070 ug/L	98
18) hexane	7.29	57	56522	4.888 ug/L	97
19) Isopropyl ether(DIPE)	7.82	45	132364	5.184 ug/L	97
20) vinyl acetate	8.05	43	72430	7.484 ug/L	98
21) 1,1-dichloroethane	8.04	63	76560	5.111 ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	121521	4.848 ug/L	96
23) 2,2-dichloropropane	9.25	77	64044	5.159 ug/L	96
24) cis-1,2-dichloroethene	9.35	61	56120	4.701 ug/L	94
25) 2-butanone(MEK)	8.97	43	18024	5.070 ug/L	95
26) bromochloromethane	10.07	128	22570	5.257 ug/L	97
27) Tetrahydrofuran(THF)	10.16	42	10052	4.839 ug/L	96
28) chloroform	9.70	83	75079	4.975 ug/L	97
29) SS Dibromofluoromethane_MS	10.19	111	72128	9.834 ug/L #	95
30) 1,1,1-trichloroethane	10.59	97	64394	5.034 ug/L	98
31) carbon tetrachloride	11.17	117	54504	5.441 ug/L #	98
32) 1,1-dichloropropene	10.97	75	64118	4.994 ug/L	92
33) SS 1,2-DCA-d4_MS	11.33	65	88847	9.891 ug/L	98
34) tert-amyl methyl ether(TAM	11.24	73	114648	5.097 ug/L	97
35) benzene	11.56	78	187750	5.149 ug/L	99
36) 1,2-dichloroethane	11.53	62	59487	4.917 ug/L	99
37) trichloroethene	12.73	95	50627	5.207 ug/L	95
38) 1,2-dichloropropane	13.05	63	44207	5.006 ug/L	94
39) dibromomethane	13.53	93	26366	5.163 ug/L #	98
40) bromodichloromethane	13.44	83	50982	4.978 ug/L	97
41) 4-methyl-2-pentanone(MIBK)	13.98	58	12579	4.442 ug/L	86
42) cis-1,3-dichloropropene	14.30	75	62796	4.892 ug/L	93
43) Chlorobenzene-D5 IS	16.69	117	239508	9.567 ug/L	98
44) SS Toluene-d8_MS	14.65	98	309915	9.617 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:46:29 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	197616	4.889	ug/L		99
46)	trans-1,3-dichloropropene	15.03	75	58883	4.870	ug/L		92
47)	1,1,2-trichloroethane	15.25	83	31374	5.004	ug/L		98
48)	2-hexanone	15.25	43	23507	4.664	ug/L		94
49)	tetrachloroethene	15.67	166	51556	5.147	ug/L		97
50)	1,3-dichloropropane	15.59	76	66386	4.860	ug/L		93
51)	dibromochloromethane	15.95	129	35732	5.146	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	39148	4.977	ug/L	#	99
53)	chlorobenzene	16.74	112	138257	5.020	ug/L		97
54)	1,1,1,2-tetrachloroethane	16.78	131	43412	5.548	ug/L		99
55)	ethylbenzene	16.79	91	226843	4.822	ug/L		98
56)	mp-xylene	16.89	106	184680	9.918	ug/L		96
57)	o-xylene	17.41	106	88114	4.953	ug/L		97
58)	styrene	17.46	104	141440	4.600	ug/L		99
59)	bromoform	17.88	173	18891	5.631	ug/L	#	94
60)	iso-propylbenzene	17.82	105	208983	4.804	ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	128971	9.722	ug/L		96
63)	bromobenzene	18.38	156	57275	5.030	ug/L		95
64)	1,1,2,2-tetrachloroethane	18.03	83	40719	4.331	ug/L		98
65)	1,2,3-trichloropropane	18.20	110	14428	4.660	ug/L		94
66)	n-propylbenzene	18.28	91	262085	4.739	ug/L		98
67)	2-chlorotoluene	18.51	91	162000	4.742	ug/L		96
68)	4-chlorotoluene	18.56	91	159991	4.603	ug/L		97
69)	1,3,5-trimethylbenzene	18.45	105	156635	4.035	ug/L		98
70)	tert-butylbenzene	18.84	119	164524	4.831	ug/L		97
71)	1,2,4-trimethylbenzene	18.89	105	153626	3.831	ug/L		98
72)	sec-butylbenzene	19.06	105	227299	4.689	ug/L		98
73)	1,3-dichlorobenzeneV	19.32	146	106408	4.951	ug/L		98
74)	p-isopropyltoluene	19.18	119	190634	4.628	ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	106758	4.910	ug/L		98
76)	1,2-dichlorobenzeneV	19.78	146	99154	4.848	ug/L	#	93
77)	n-butylbenzene	19.58	91	158164	4.450	ug/L		98
79)	1,2-dibromo-3-chloropropan	20.52	157	6773	4.039	ug/L		99
80)	1,3,5-trichlorobenzV	20.75	180	59213	4.659	ug/L		99
81)	1,2,4-trichlorobenzV	21.44	180	48968	4.541	ug/L		98
82)	hexachlorobutadieneV	21.56	225	22516	4.628	ug/L		96
83)	naphthaleneV	21.76	128	104106	3.849	ug/L		100
84)	1,2,3-trichlorobenzV	22.05	180	42519	4.510	ug/L		98
85)	SS 2,5-DBT_MS	23.36	250	7466	4.269	ug/L		94

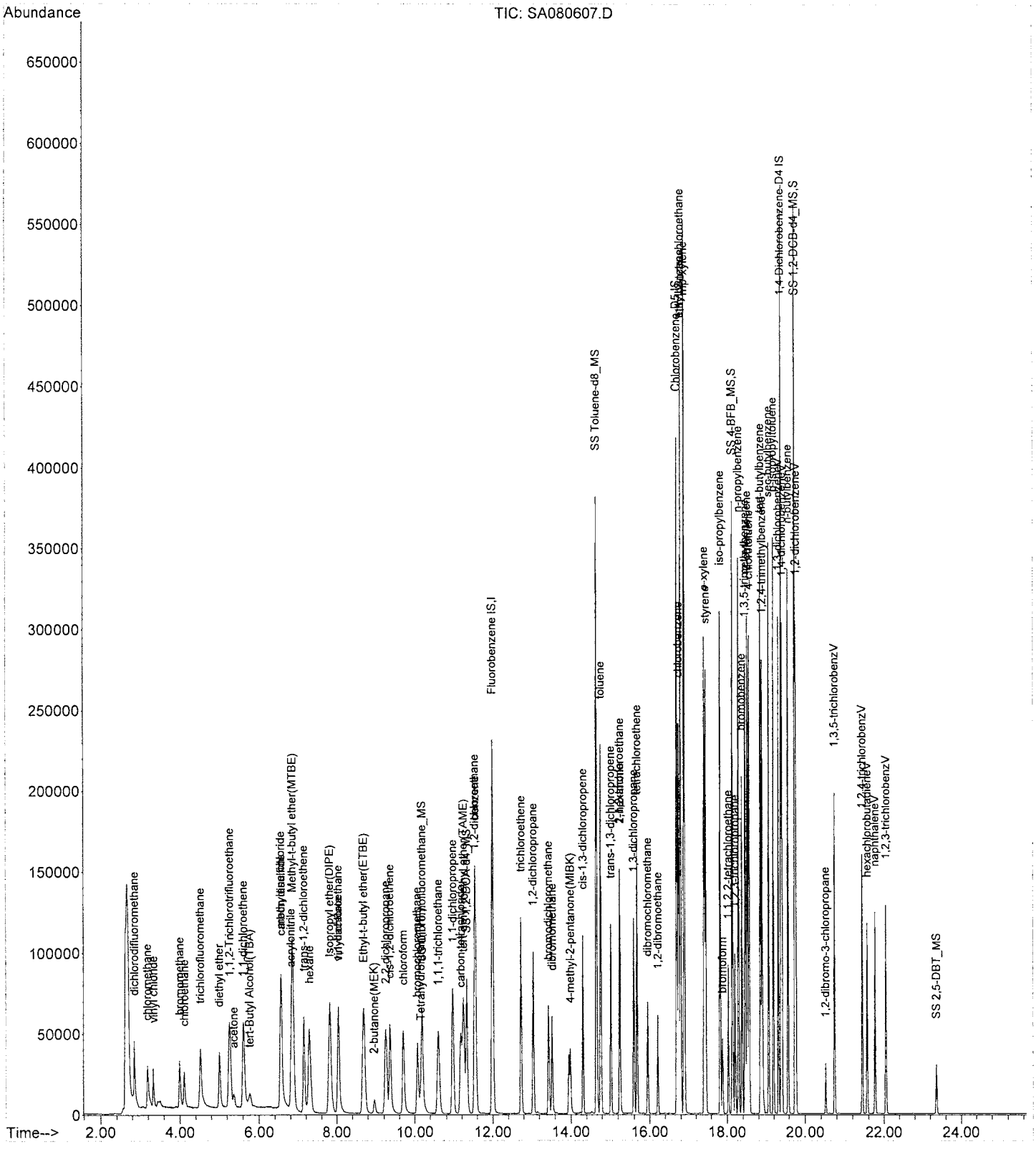
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080607.D Vial: 7
Acq On : 6 Aug 2012 11:31 am Operator: BAM
Sample : 5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:46 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:47:18 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	324389	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	120850	9.35	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.53%				
78) SS 1,2-DCB-d4_MS	19.75	152	122688	9.97	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.67%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	104764	9.892	ug/L		99
3) chloromethane	3.19	50	97535	10.417	ug/L		99
4) vinyl chloride	3.34	62	50688	6.978	ug/L		100
5) bromomethane	3.99	94	60497	11.203	ug/L		98
6) chloroethane	4.11	64	58601	12.050	ug/L		98
7) trichlorofluoromethane	4.52	101	136789	11.591	ug/L		99
8) diethyl ether	5.02	59	63875	11.210	ug/L		95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	94286	11.735	ug/L		97
10) acetone	5.38	43	17944	7.196	ug/L		94
11) 1,1-dichloroethene	5.61	96	84084	12.254	ug/L		92
12) tert-Butyl Alcohol(TBA)	5.77	59	32325	49.526	ug/L		96
13) methylene chloride	6.55	84	91427	10.837	ug/L		96
14) carbon disulfide	6.57	76	222989	11.855	ug/L		100
15) acrylonitrile	6.81	53	29022	10.342	ug/L		97
16) Methyl-t-butyl ether(MTBE)	6.85	73	442551	20.819	ug/L		99
17) trans-1,2-dichloroethene	7.15	96	81697	9.892	ug/L		97
18) hexane	7.29	57	106898	9.223	ug/L		97
19) Isopropyl ether(DIPE)	7.81	45	250738	9.796	ug/L		97
20) vinyl acetate	8.05	43	145728	15.021	ug/L		98
21) 1,1-dichloroethane	8.05	63	146249	9.738	ug/L		99
22) Ethyl-t-butyl ether(ETBE)	8.70	59	230985	9.193	ug/L		96
23) 2,2-dichloropropane	9.25	77	124240	9.983	ug/L		96
24) cis-1,2-dichloroethene	9.35	61	110682	9.248	ug/L		95
25) 2-butanone(MEK)	8.96	43	29336	8.231	ug/L		96
26) bromochloromethane	10.08	128	43996	10.222	ug/L		97
27) Tetrahydrofuran(THF)	10.15	42	18637	8.950	ug/L		98
28) chloroform	9.71	83	144451	9.549	ug/L		97
29) SS Dibromofluoromethane_MS	10.20	111	73780	10.035	ug/L	#	94
30) 1,1,1-trichloroethane	10.59	97	126782	9.887	ug/L		99
31) carbon tetrachloride	11.17	117	109899	10.943	ug/L	#	98
32) 1,1-dichloropropene	10.97	75	122422	9.511	ug/L		93
33) SS 1,2-DCA-d4_MS	11.32	65	90318	10.030	ug/L		98
34) tert-amyl methyl ether(TAM	11.24	73	219873	9.750	ug/L		97
35) benzene	11.56	78	356984	9.766	ug/L		99
36) 1,2-dichloroethane	11.53	62	115520	9.524	ug/L		99
37) trichloroethene	12.73	95	95604	9.808	ug/L		94
38) 1,2-dichloropropane	13.05	63	85183	9.623	ug/L		96
39) dibromomethane	13.53	93	51822	10.124	ug/L	#	98
40) bromodichloromethane	13.44	83	103517	10.082	ug/L		97
41) 4-methyl-2-pentanone(MIBK)	13.98	58	23714	8.354	ug/L		89
42) cis-1,3-dichloropropene	14.30	75	124921	9.708	ug/L		93
43) Chlorobenzene-D5 IS	16.69	117	242009	9.643	ug/L		97
44) SS Toluene-d8_MS	14.65	98	309846	9.591	ug/L		99

(#) = qualifier out of range (m) = manual integration
SA080608.D 5LID0806.M Wed Sep 12 10:22:21 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:47:18 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	377743	9.323	ug/L		99
46)	trans-1,3-dichloropropene	15.03	75	117495	9.693	ug/L		94
47)	1,1,2-trichloroethane	15.25	83	59682	9.495	ug/L		99
48)	2-hexanone	15.25	43	41073	8.129	ug/L		95
49)	tetrachloroethene	15.67	166	99630	9.922	ug/L		97
50)	1,3-dichloropropane	15.59	76	126404	9.232	ug/L		94
51)	dibromochloromethane	15.95	129	74194	10.660	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	75271	9.546	ug/L	#	99
53)	chlorobenzene	16.74	112	264609	9.585	ug/L		99
54)	1,1,1,2-tetrachloroethane	16.78	131	87634	11.171	ug/L		99
55)	ethylbenzene	16.79	91	440040	9.331	ug/L		98
56)	mp-xylene	16.89	106	358565	19.209	ug/L		96
57)	o-xylene	17.41	106	171754	9.631	ug/L		95
58)	styrene	17.46	104	276307	8.963	ug/L		99
59)	bromoform	17.88	173	40931	12.171	ug/L	#	95
60)	iso-propylbenzene	17.83	105	408527	9.369	ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	129685	9.751	ug/L		97
63)	bromobenzene	18.38	156	110889	9.715	ug/L		95
64)	1,1,2,2-tetrachloroethane	18.03	83	80231	8.512	ug/L		98
65)	1,2,3-trichloropropane	18.20	110	27289	8.793	ug/L		95
66)	n-propylbenzene	18.28	91	510400	9.207	ug/L		98
67)	2-chlorotoluene	18.51	91	311972	9.110	ug/L		96
68)	4-chlorotoluene	18.56	91	312660	8.973	ug/L		97
69)	1,3,5-trimethylbenzene	18.45	105	314307	8.076	ug/L		98
70)	tert-butylbenzene	18.84	119	325327	9.530	ug/L		96
71)	1,2,4-trimethylbenzene	18.89	105	307042	7.638	ug/L		98
72)	sec-butylbenzene	19.06	105	449935	9.259	ug/L		98
73)	1,3-dichlorobenzeneV	19.32	146	209179	9.709	ug/L		97
74)	p-isopropyltoluene	19.19	119	385722	9.340	ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	209097m	9.593	ug/L		
76)	1,2-dichlorobenzeneV	19.77	146	192455	9.386	ug/L		97
77)	n-butylbenzene	19.58	91	317274	8.905	ug/L		98
79)	1,2-dibromo-3-chloropropan	20.52	157	14627	8.702	ug/L		97
80)	1,3,5-trichlorobenzV	20.75	180	116460	9.141	ug/L		99
81)	1,2,4-trichlorobenzV	21.44	180	97075	8.980	ug/L		98
82)	hexachlorobutadieneV	21.56	225	44655	9.157	ug/L		96
83)	naphthaleneV	21.76	128	225296	8.309	ug/L		99
84)	1,2,3-trichlorobenzV	22.05	180	84046	8.893	ug/L		98
85)	SS 2,5-DBT_MS	23.36	250	17585	7.955	ug/L		91

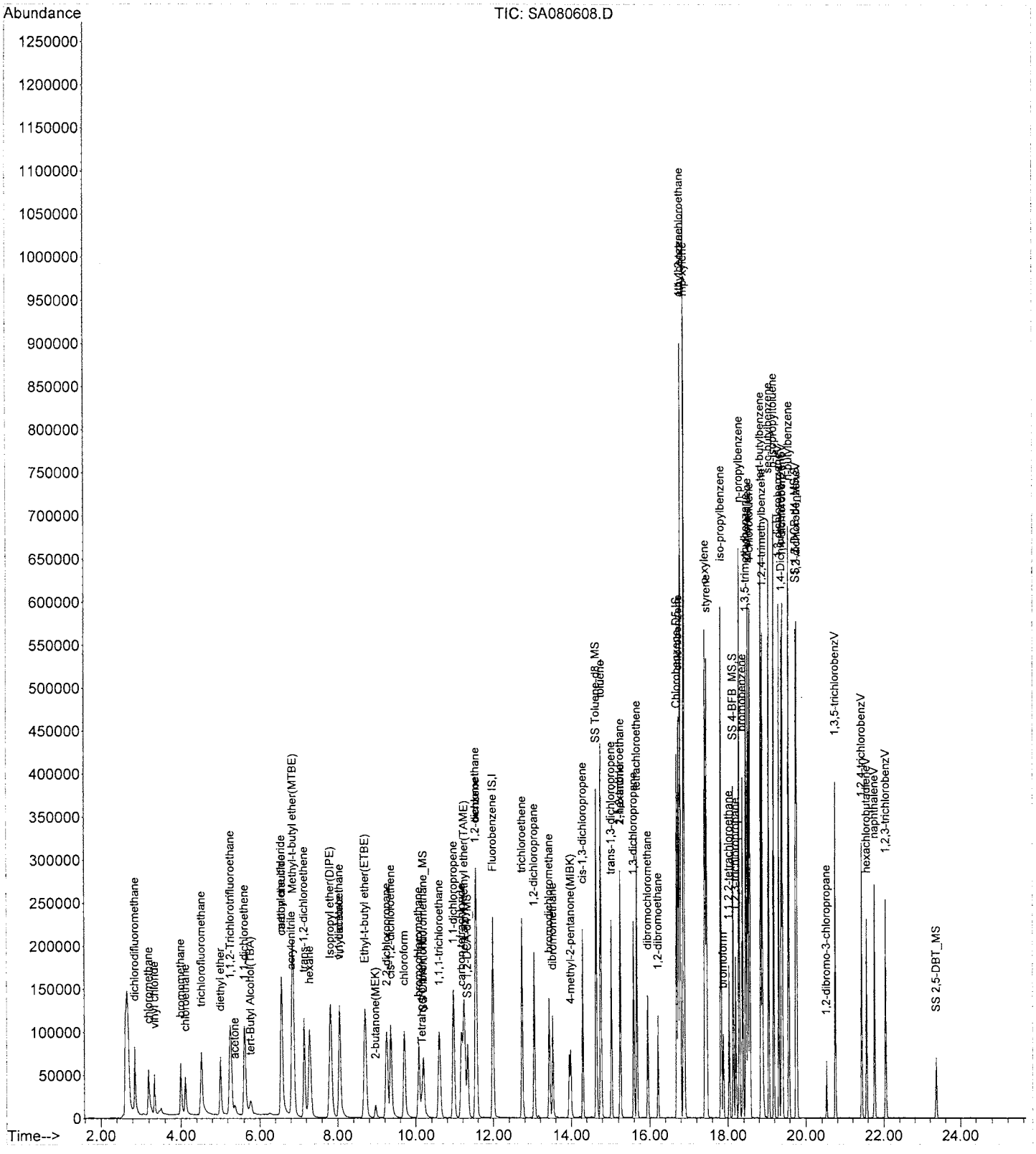
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080608.D Vial: 8
Acq On : 6 Aug 2012 12:05 pm Operator: BAM
Sample : 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:47 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:48:07 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	322868	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	121929	9.48	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.81%				
78) SS 1,2-DCB-d4_MS	19.75	152	125727	10.26	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.62%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	204235	19.374	ug/L		99
3) chloromethane	3.19	50	188088	20.183	ug/L		100
4) vinyl chloride	3.34	62	92845	12.842	ug/L		99
5) bromomethane	3.99	94	120563	22.431	ug/L		100
6) chloroethane	4.11	64	113330	23.414	ug/L		98
7) trichlorofluoromethane	4.52	101	264833	22.548	ug/L		100
8) diethyl ether	5.01	59	126776	22.354	ug/L		94
9) 1,1,2-Trichlorotrifluoroet	5.27	101	184609	23.084	ug/L		96
10) acetone	5.38	43	35268	15.992	ug/L		95
11) 1,1-dichloroethene	5.61	96	166261	24.345	ug/L		92
12) tert-Butyl Alcohol(TBA)	5.77	59	65054	100.141	ug/L		92
13) methylene chloride	6.55	84	179290	21.351	ug/L		96
14) carbon disulfide	6.57	76	446539	23.853	ug/L		99
15) acrylonitrile	6.81	53	57626	20.632	ug/L		96
16) Methyl-t-butyl ether(MTBE)	6.85	73	892323	42.175	ug/L		97
17) trans-1,2-dichloroethene	7.15	96	161790	19.683	ug/L		97
18) hexane	7.29	57	207116	17.953	ug/L		97
19) Isopropyl ether(DIPE)	7.81	45	499965	19.626	ug/L		97
20) vinyl acetate	8.05	43	264329	27.374	ug/L		98
21) 1,1-dichloroethane	8.04	63	289488	19.367	ug/L		99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	460612	18.418	ug/L		97
23) 2,2-dichloropropane	9.25	77	245535	19.822	ug/L		97
24) cis-1,2-dichloroethene	9.35	61	221170	18.567	ug/L		95
25) 2-butanone(MEK)	8.96	43	57507	16.212	ug/L		97
26) bromochloromethane	10.08	128	88910	20.754	ug/L		95
27) Tetrahydrofuran(THF)	10.15	42	37906	18.289	ug/L		98
28) chloroform	9.71	83	289180	19.206	ug/L		97
29) SS Dibromofluoromethane_MS	10.19	111	73903	10.099	ug/L	#	94
30) 1,1,1-trichloroethane	10.59	97	253516	19.863	ug/L		99
31) carbon tetrachloride	11.17	117	227189	22.729	ug/L	#	98
32) 1,1-dichloropropene	10.96	75	242922	18.961	ug/L		94
33) SS 1,2-DCA-d4_MS	11.32	65	88686	9.895	ug/L		99
34) tert-amyl methyl ether(TAM	11.24	73	441059	19.651	ug/L		97
35) benzene	11.56	78	705667	19.396	ug/L		98
36) 1,2-dichloroethane	11.53	62	229347	18.998	ug/L		99
37) trichloroethene	12.73	95	193280	19.923	ug/L		95
38) 1,2-dichloropropane	13.05	63	169672	19.258	ug/L		96
39) dibromomethane	13.53	93	103838	20.381	ug/L	#	99
40) bromodichloromethane	13.44	83	214102	20.951	ug/L		98
41) 4-methyl-2-pentanone(MIBK)	13.98	58	48492	17.163	ug/L		93
42) cis-1,3-dichloropropene	14.30	75	257798	20.129	ug/L		95
43) Chlorobenzene-D5 IS	16.69	117	241334	9.661	ug/L		98
44) SS Toluene-d8_MS	14.65	98	313143	9.739	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:48:07 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	toluene	14.77	91	757600	18.787 ug/L		99
46)	trans-1,3-dichloropropene	15.03	75	244542	20.269 ug/L		95
47)	1,1,2-trichloroethane	15.25	83	119684	19.131 ug/L		99
48)	2-hexanone	15.25	43	81786	16.263 ug/L		97
49)	tetrachloroethene	15.67	166	200566	20.067 ug/L		98
50)	1,3-dichloropropane	15.59	76	254930	18.706 ug/L		95
51)	dibromochloromethane	15.95	129	160422	23.157 ug/L	#	100
52)	1,2-dibromoethane	16.22	107	153194	19.519 ug/L	#	98
53)	chlorobenzene	16.74	112	533100	19.402 ug/L		98
54)	1,1,1,2-tetrachloroethane	16.78	131	184207	23.593 ug/L		98
55)	ethylbenzene	16.79	91	895701	19.084 ug/L		98
56)	mp-xylene	16.89	106	734159	39.515 ug/L		96
57)	o-xylene	17.41	106	346921	19.546 ug/L		96
58)	styrene	17.46	104	569142	18.550 ug/L		98
59)	bromoform	17.88	173	94076	28.105 ug/L	#	95
60)	iso-propylbenzene	17.82	105	831978	19.169 ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	133534	10.088 ug/L		94
63)	bromobenzene	18.38	156	227167	19.995 ug/L		94
64)	1,1,2,2-tetrachloroethane	18.03	83	159294	16.980 ug/L		98
65)	1,2,3-trichloropropane	18.20	110	56191	18.191 ug/L		93
66)	n-propylbenzene	18.28	91	1037490	18.803 ug/L		97
67)	2-chlorotoluene	18.51	91	639556	18.765 ug/L		96
68)	4-chlorotoluene	18.56	91	640894	18.480 ug/L		96
69)	1,3,5-trimethylbenzene	18.45	105	680691	17.573 ug/L		98
70)	tert-butylbenzene	18.84	119	661684	19.474 ug/L		96
71)	1,2,4-trimethylbenzene	18.89	105	668388	16.705 ug/L		98
72)	sec-butylbenzene	19.06	105	927281	19.173 ug/L		98
73)	1,3-dichlorobenzeneV	19.32	146	431025	20.100 ug/L		97
74)	p-isopropyltoluene	19.19	119	802110	19.514 ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	428272	19.742 ug/L		96
76)	1,2-dichlorobenzeneV	19.78	146	397345	19.471 ug/L		94
77)	n-butylbenzene	19.58	91	656964	18.525 ug/L		98
79)	1,2-dibromo-3-chloropropan	20.52	157	32453	19.397 ug/L		97
80)	1,3,5-trichlorobenzV	20.75	180	244917	19.314 ug/L		99
81)	1,2,4-trichlorobenzV	21.44	180	208669	19.394 ug/L		98
82)	hexachlorobutadieneV	21.56	225	92291	19.014 ug/L		96
83)	naphthaleneV	21.76	128	494463	18.321 ug/L		99
84)	1,2,3-trichlorobenzV	22.05	180	180192	19.156 ug/L		98
85)	SS 2,5-DBT_MS	23.36	250	44003	17.674 ug/L		91

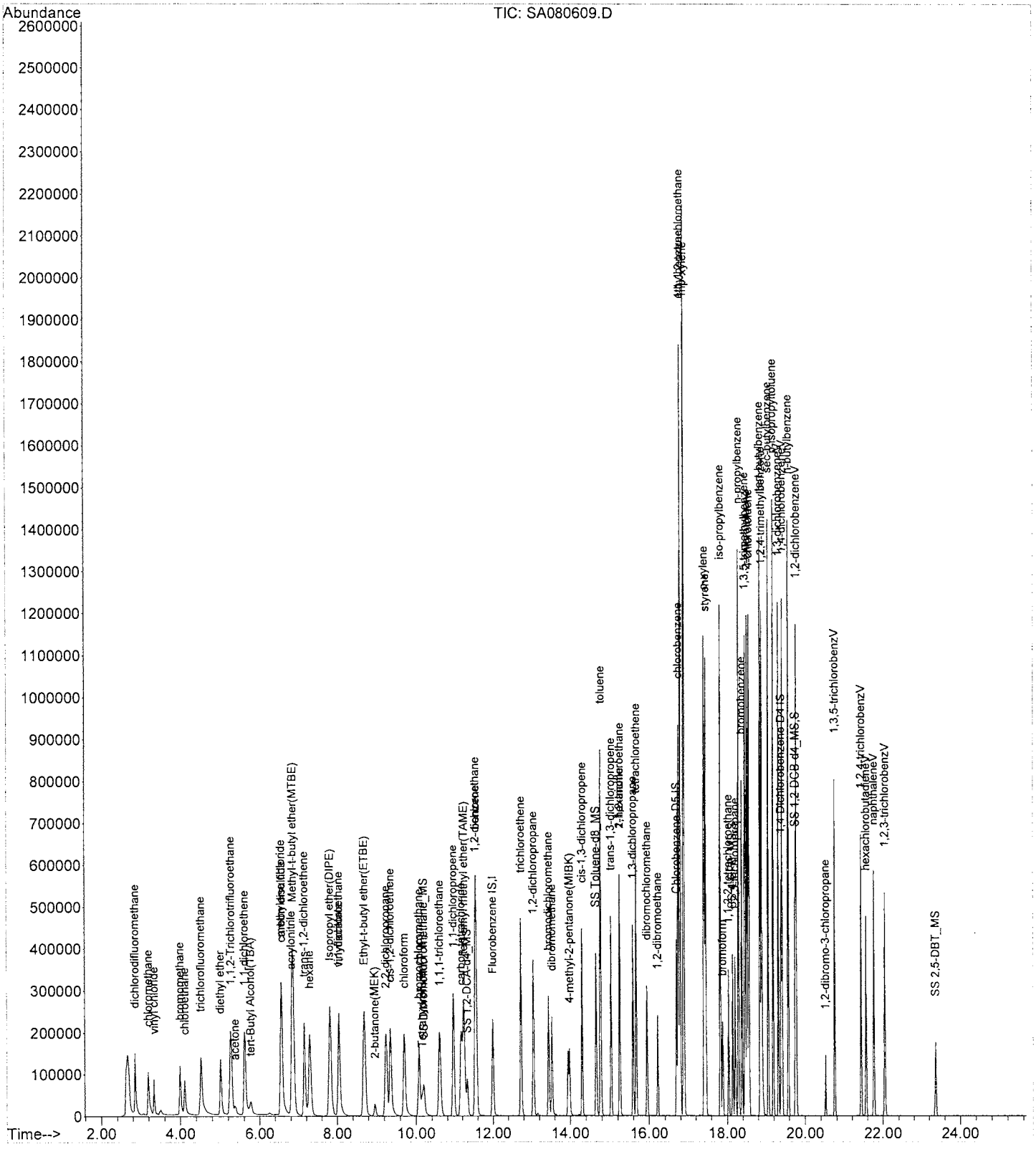
Bdm 8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080609.D Vial: 9
Acq On : 6 Aug 2012 12:39 pm Operator: BAM
Sample : 20 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:48 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:48:56 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	331102	10.000 ug/L	0.00
System Monitoring Compounds					
61) SS 4-BFB_MS	18.13	95	125982	9.55 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.53%		
78) SS 1,2-DCB-d4_MS	19.75	152	132181	10.52 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.21%		
Target Compounds					Qvalue
8) diethyl ether	5.01	59	324027	55.714 ug/L	95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	473204	57.699 ug/L	96
10) acetone	5.38	43	89768	42.404 ug/L	96
11) 1,1-dichloroethene	5.61	96	424348	60.589 ug/L	92
12) tert-Butyl Alcohol(TBA)	5.78	59	164913	247.547 ug/L	93
13) methylene chloride	6.55	84	454513	52.781 ug/L	96
14) carbon disulfide	6.57	76	1160755	60.462 ug/L	98
15) acrylonitrile	6.81	53	146222	51.050 ug/L	96
16) Methyl-t-butyl ether(MTBE)	6.85	73	2293227	105.691 ug/L	97
17) trans-1,2-dichloroethene	7.15	96	425011	50.420 ug/L	97
18) hexane	7.29	57	534314	45.164 ug/L	97
19) Isopropyl ether(DIPE)	7.81	45	1297077	49.650 ug/L	98
21) 1,1-dichloroethane	8.04	63	744510	48.570 ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	1203991	46.946 ug/L	97
23) 2,2-dichloropropane	9.25	77	636475	50.105 ug/L	99
24) cis-1,2-dichloroethene	9.36	61	574724	47.048 ug/L	96
25) 2-butanone(MEK)	8.96	43	146064	40.153 ug/L	99
26) bromochloromethane	10.08	128	231317	52.653 ug/L	95
27) Tetrahydrofuran(THF)	10.15	42	95804	45.074 ug/L	100
28) chloroform	9.71	83	749236	48.522 ug/L	97
29) SS Dibromofluoromethane_MS	10.19	111	76859	10.242 ug/L #	92
30) 1,1,1-trichloroethane	10.59	97	674477	51.531 ug/L	99
31) carbon tetrachloride	11.17	117	616213	60.116 ug/L #	98
32) 1,1-dichloropropene	10.97	75	631116	48.036 ug/L	95
33) SS 1,2-DCA-d4_MS	11.33	65	90468	9.843 ug/L	99
34) tert-amyl methyl ether(TAM	11.24	73	1170905	50.871 ug/L	97
35) benzene	11.56	78	1848728	49.550 ug/L	98
36) 1,2-dichloroethane	11.53	62	587726	47.474 ug/L	99
37) trichloroethene	12.73	95	501409	50.399 ug/L	93
38) 1,2-dichloropropane	13.05	63	443101	49.042 ug/L	97
39) dibromomethane	13.53	93	272163	52.090 ug/L	98
40) bromodichloromethane	13.44	83	580083	55.353 ug/L	97
41) 4-methyl-2-pentanone(MIBK)	13.98	58	127298	43.935 ug/L	91
42) cis-1,3-dichloropropene	14.30	75	691448	52.647 ug/L	96
43) Chlorobenzene-D5 IS	16.69	117	250410	9.775 ug/L	97
44) SS Toluene-d8_MS	14.65	98	318782	9.667 ug/L	99
45) toluene	14.77	91	1995475	48.253 ug/L	99
46) trans-1,3-dichloropropene	15.03	75	674089	54.482 ug/L	96
47) 1,1,2-trichloroethane	15.25	83	314320	48.993 ug/L	98
48) 2-hexanone	15.25	43	217045	42.087 ug/L	98
49) tetrachloroethene	15.67	166	532594	51.962 ug/L	99
50) 1,3-dichloropropane	15.60	76	670112	47.948 ug/L	98
51) dibromochloromethane	15.95	129	463298	65.215 ug/L #	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:48:56 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) 1,2-dibromoethane	16.22	107	408417	50.744 ug/L #	99
53) chlorobenzene	16.74	112	1424693	50.561 ug/L	96
54) 1,1,1,2-tetrachloroethane	16.79	131	518188	64.717 ug/L	99
55) ethylbenzene	16.79	91	2401851	49.901 ug/L	97
56) mp-xylene	16.89	106	1987578	104.317 ug/L	94
57) o-xylene	17.41	106	932780	51.246 ug/L	95
58) styrene	17.46	104	1542129	49.013 ug/L	97
59) bromoform	17.88	173	282056	82.169 ug/L #	96
60) iso-propylbenzene	17.83	105	2243422	50.404 ug/L	98
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	138371	10.193 ug/L	98
63) bromobenzene	18.38	156	615871	52.861 ug/L	92
64) 1,1,2,2-tetrachloroethane	18.03	83	428345	44.523 ug/L	98
65) 1,2,3-trichloropropane	18.20	110	147834	46.669 ug/L	93
66) n-propylbenzene	18.28	91	2764917	48.865 ug/L	96
67) 2-chlorotoluene	18.51	91	1701639	48.685 ug/L	96
68) 4-chlorotoluene	18.56	91	1721385	48.400 ug/L	96
69) 1,3,5-trimethylbenzene	18.46	105	1938811	48.809 ug/L	98
70) tert-butylbenzene	18.84	119	1801252	51.694 ug/L	96
71) 1,2,4-trimethylbenzene	18.89	105	1946861	47.447 ug/L	98
72) sec-butylbenzene	19.06	105	2518151	50.772 ug/L	98
73) 1,3-dichlorobenzeneV	19.32	146	1174081	53.389 ug/L	96
74) p-isopropyltoluene	19.19	119	2202559	52.253 ug/L	97
75) 1,4-dichlorobenzeneV	19.42	146	1166910	52.452 ug/L	97
76) 1,2-dichlorobenzeneV	19.77	146	1083413	51.769 ug/L #	91
77) n-butylbenzene	19.58	91	1805340	49.642 ug/L	98
79) 1,2-dibromo-3-chloropropan	20.52	157	94583	55.126 ug/L	96
80) 1,3,5-trichlorobenzV	20.75	180	680226	52.309 ug/L	99
81) 1,2,4-trichlorobenzV	21.44	180	576646	52.261 ug/L	99
82) hexachlorobutadieneV	21.56	225	254217	51.072 ug/L	96
83) naphthaleneV	21.76	128	1389617	50.208 ug/L	99
84) 1,2,3-trichlorobenzV	22.05	180	498022	51.627 ug/L	99
85) SS 2,5-DBT_MS	23.36	250	146023	53.757 ug/L	89

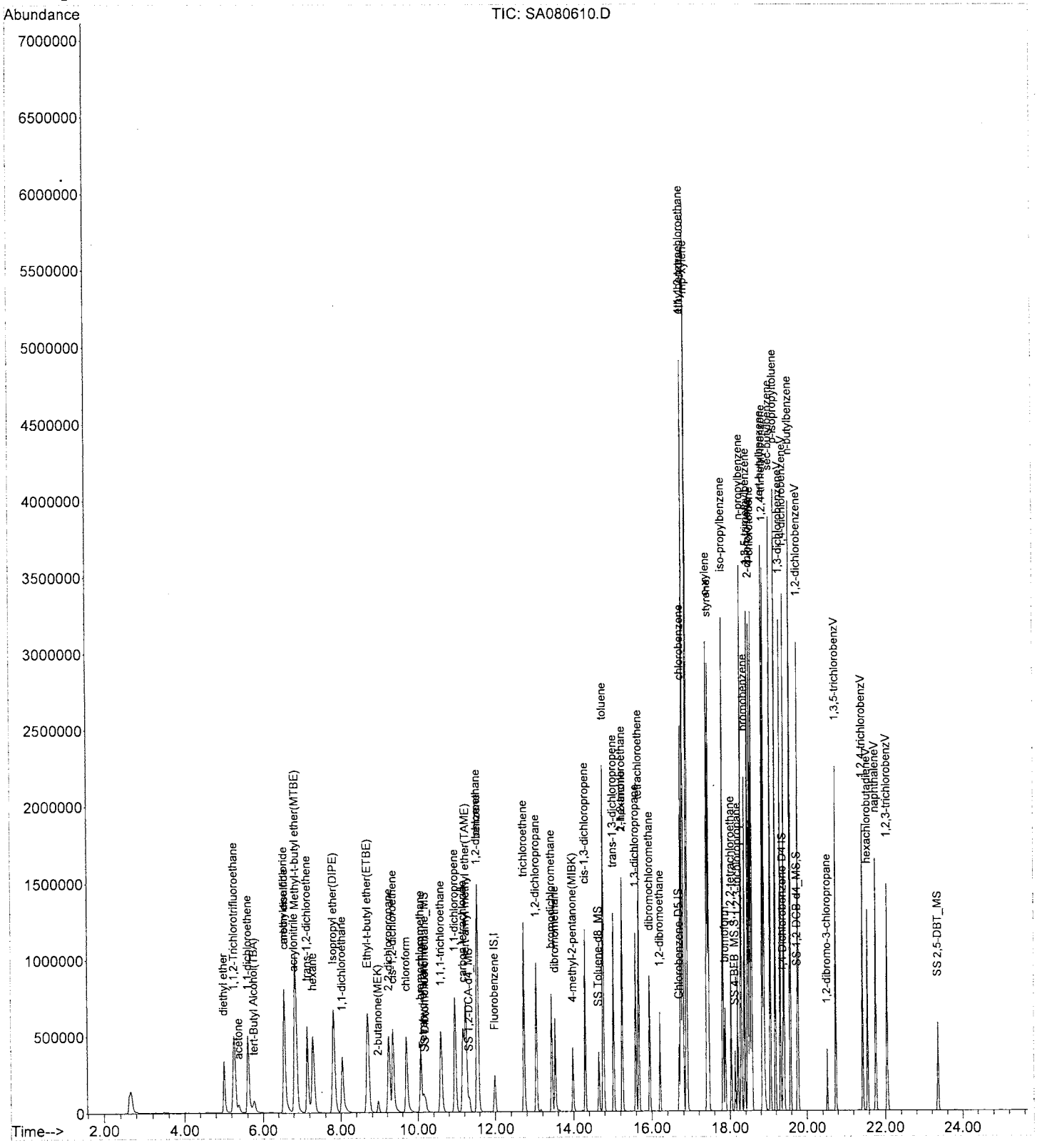
Blue 8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080610.D Vial: 10
Acq On : 6 Aug 2012 1:14 pm Operator: BAM
Sample : 50 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:49 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:49:50 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	313742	10.000 ug/L	0.00
System Monitoring Compounds					
61) SS 4-BFB_MS	18.13	95	116323	9.31 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.08%		
78) SS 1,2-DCB-d4_MS	19.75	152	116932	9.82 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.22%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.85	85	504251	49.226 ug/L	99
3) chloromethane	3.19	50	468249	51.709 ug/L	100
4) vinyl chloride	3.33	62	229297	32.639 ug/L	100
5) bromomethane	3.99	94	315852	60.475 ug/L	98
6) chloroethane	4.11	64	282353	60.032 ug/L	98
7) trichlorofluoromethane	4.52	101	662417	58.038 ug/L	99
20) vinyl acetate	8.05	43	764933	81.521 ug/L	98
29) SS Dibromofluoromethane_MS	10.19	111	71405	10.041 ug/L #	95
33) SS 1,2-DCA-d4_MS	11.33	65	86445	9.926 ug/L	98
43) Chlorobenzene-D5 IS	16.69	117	233790	9.631 ug/L	98
44) SS Toluene-d8_MS	14.65	98	304108	9.733 ug/L	99
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	124513	9.680 ug/L	92

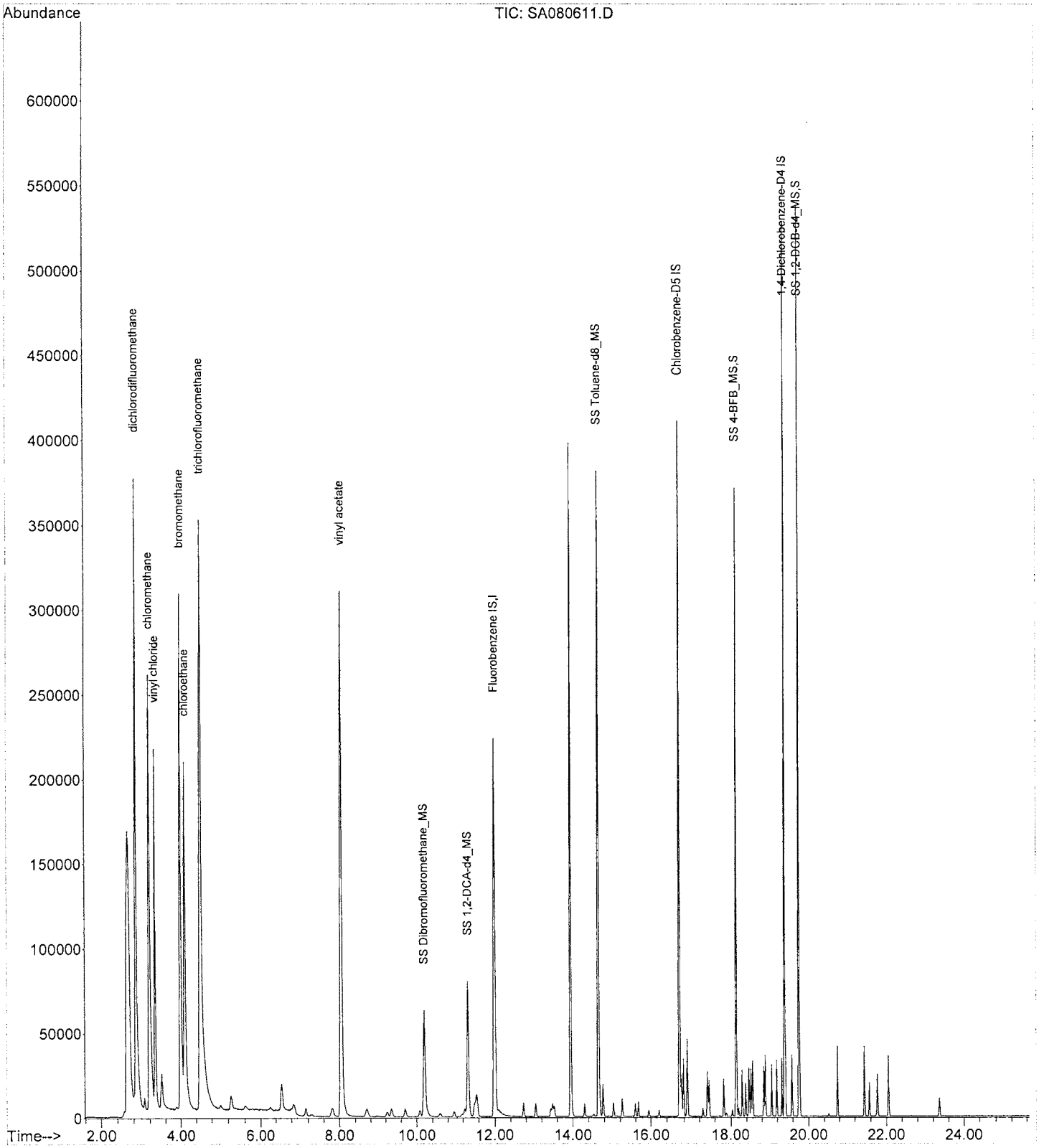
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080611.D Vial: 11
Acq On : 6 Aug 2012 1:49 pm Operator: BAM
Sample : 50 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:50 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:50:44 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	331654	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	128735	9.75	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.45%				
78) SS 1,2-DCB-d4_MS	19.75	152	133827	10.63	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.34%				
Target Compounds							Qvalue
8) diethyl ether	5.02	59	653626	112.198	ug/L		95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	954829	116.232	ug/L		96
10) acetone	5.38	43	192085	92.662	ug/L		98
11) 1,1-dichloroethene	5.61	96	861584	122.814	ug/L		91
12) tert-Butyl Alcohol(TBA)	5.83	59	340440	510.176	ug/L		93
13) methylene chloride	6.55	84	917091	106.322	ug/L		95
14) carbon disulfide	6.57	76	2410223	125.335	ug/L		99
15) acrylonitrile	6.82	53	294486	102.643	ug/L		95
16) Methyl-t-butyl ether(MTBE)	6.85	73	4599018	211.609	ug/L		96
17) trans-1,2-dichloroethene	7.15	96	877469	103.922	ug/L		96
18) hexane	7.29	57	1116659	94.230	ug/L		97
19) Isopropyl ether(DIPE)	7.82	45	2642544	100.984	ug/L		98
21) 1,1-dichloroethane	8.04	63	1519610	98.971	ug/L		98
22) Ethyl-t-butyl ether(ETBE)	8.70	59	2473473	96.285	ug/L		97
23) 2,2-dichloropropane	9.25	77	1346660	105.836	ug/L		99
24) cis-1,2-dichloroethene	9.36	61	1165887	95.282	ug/L		94
25) 2-butanone(MEK)	8.96	43	305075	83.725	ug/L		99
26) bromochloromethane	10.08	128	477536	108.518	ug/L		94
27) Tetrahydrofuran(THF)	10.15	42	197413	92.725	ug/L		99
28) chloroform	9.71	83	1540866	99.624	ug/L		98
29) SS Dibromofluoromethane_MS	10.19	111	76563	10.185	ug/L	#	91
30) 1,1,1-trichloroethane	10.59	97	1387098	105.800	ug/L		99
31) carbon tetrachloride	11.17	117	1291747	125.809	ug/L		99
32) 1,1-dichloropropene	10.97	75	1294359	98.354	ug/L		96
33) SS 1,2-DCA-d4_MS	11.33	65	88761	9.641	ug/L		98
34) tert-amyl methyl ether(TAM	11.24	73	2428997	105.354	ug/L		97
35) benzene	11.56	78	3844569	102.872	ug/L		97
36) 1,2-dichloroethane	11.53	62	1175799	94.818	ug/L		99
37) trichloroethene	12.73	95	1052972	105.662	ug/L		94
38) 1,2-dichloropropane	13.05	63	911141	100.677	ug/L		98
39) dibromomethane	13.53	93	563981	107.761	ug/L		98
40) bromodichloromethane	13.44	83	1220579	116.278	ug/L		98
41) 4-methyl-2-pentanone(MIBK)	13.99	58	267008	92.001	ug/L		92
42) cis-1,3-dichloropropene	14.30	75	1467654	111.561	ug/L		98
43) Chlorobenzene-D5 IS	16.69	117	253138	9.865	ug/L		97
44) SS Toluene-d8_MS	14.66	98	323672	9.799	ug/L		99
45) toluene	14.77	91	4208033	101.585	ug/L		98
46) trans-1,3-dichloropropene	15.03	75	1445331	116.623	ug/L		98
47) 1,1,2-trichloroethane	15.25	83	669054	104.113	ug/L		97
48) 2-hexanone	15.25	43	442409	85.643	ug/L		100
49) tetrachloroethene	15.67	166	1140843	111.121	ug/L		99
50) 1,3-dichloropropane	15.60	76	1394543	99.616	ug/L		99
51) dibromochloromethane	15.95	129	1023813	143.874	ug/L	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:50:44 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Thu May 17 11:15:19 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	1,2-dibromoethane	16.22	107	867603	107.617 ug/L #	99
53)	chlorobenzene	16.74	112	3018005	106.927 ug/L	96
54)	1,1,1,2-tetrachloroethane	16.79	131	1092453	136.211 ug/L	99
55)	ethylbenzene	16.79	91	4993389	103.569 ug/L	96
56)	mp-xylene	16.89	106	4054705	212.454 ug/L	93
57)	o-xylene	17.42	106	1988257	109.052 ug/L	94
58)	styrene	17.46	104	3286856	104.290 ug/L	97
59)	bromoform	17.89	173	635608	184.859 ug/L #	96
60)	iso-propylbenzene	17.83	105	4706635	105.571 ug/L	97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	142723	10.497 ug/L	91
63)	bromobenzene	18.38	156	1319756	113.088 ug/L	90
64)	1,1,2,2-tetrachloroethane	18.03	83	884728	91.807 ug/L	98
65)	1,2,3-trichloropropane	18.21	110	315513	99.437 ug/L	92
66)	n-propylbenzene	18.29	91	5778337	101.951 ug/L	95
67)	2-chlorotoluene	18.51	91	3549616	101.387 ug/L	95
68)	4-chlorotoluene	18.56	91	3633464	101.993 ug/L	95
69)	1,3,5-trimethylbenzene	18.46	105	4166312	104.710 ug/L	98
70)	tert-butylbenzene	18.84	119	3776172	108.191 ug/L	96
71)	1,2,4-trimethylbenzene	18.89	105	4202148	102.239 ug/L	97
72)	sec-butylbenzene	19.06	105	5204063	104.751 ug/L	97
73)	1,3-dichlorobenzeneV	19.32	146	2520418m	114.420 ug/L	
74)	p-isopropyltoluene	19.19	119	4569773	108.232 ug/L	97
75)	1,4-dichlorobenzeneV	19.42	146	2516519	112.928 ug/L	95
76)	1,2-dichlorobenzeneV	19.78	146	2312287	110.305 ug/L #	89
77)	n-butylbenzene	19.58	91	3766931	103.408 ug/L	97
79)	1,2-dibromo-3-chloropropan	20.52	157	202582	117.876 ug/L	95
80)	1,3,5-trichlorobenzV	20.75	180	1467245	112.643 ug/L	98
81)	1,2,4-trichlorobenzV	21.44	180	1247600	112.881 ug/L	98
82)	hexachlorobutadieneV	21.56	225	553942	111.100 ug/L	97
83)	naphthaleneV	21.76	128	3000156	108.217 ug/L	99
84)	1,2,3-trichlorobenzV	22.05	180	1066196	110.343 ug/L	99
85)	SS 2,5-DBT_MS	23.36	250	307494	111.318 ug/L	87

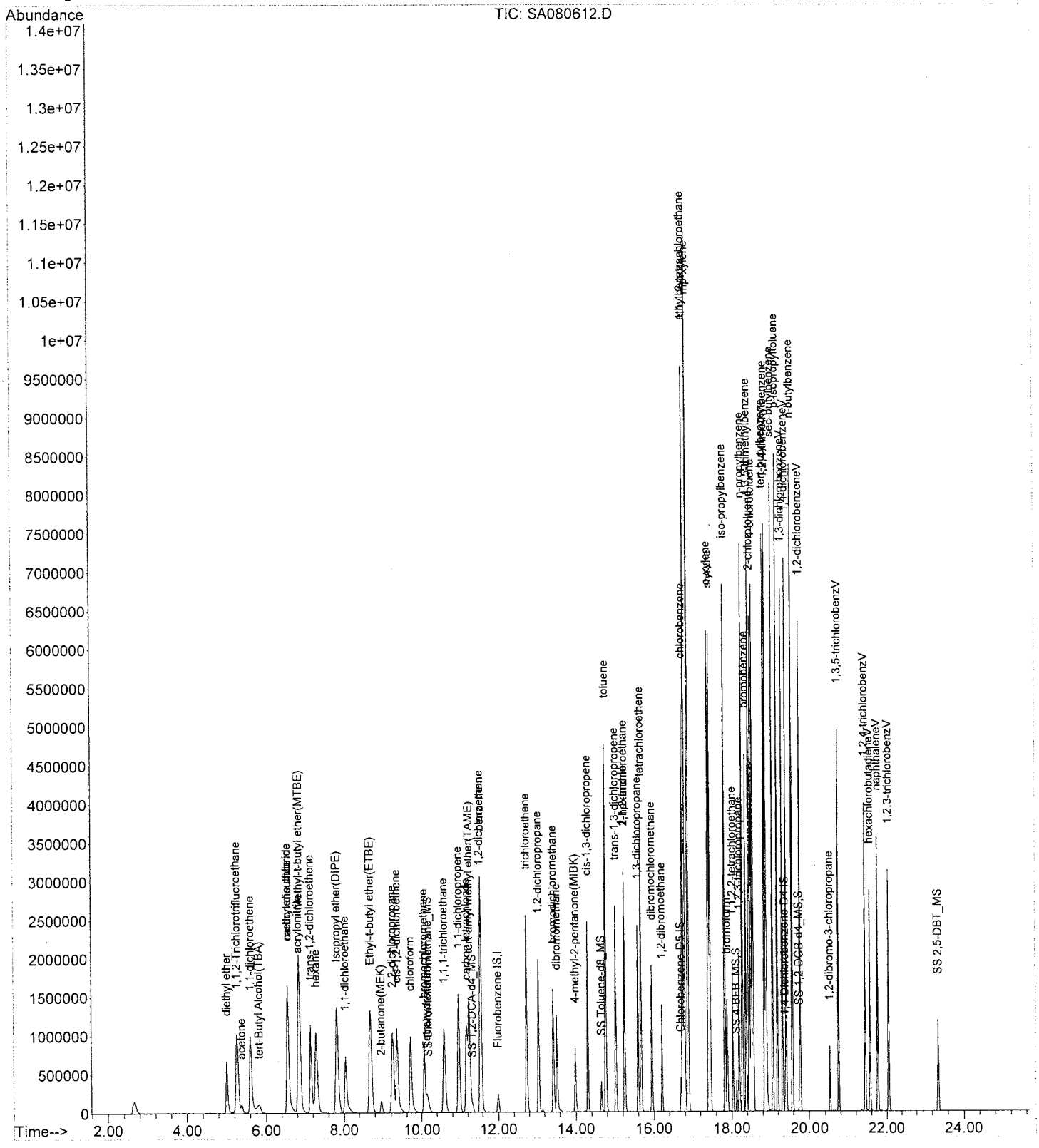
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080612.D Vial: 12
Acq On : 6 Aug 2012 2:23 pm Operator: BAM
Sample : 100 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:51 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 07 07:55:20 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 07:55:09 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	338403	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	122535	9.67	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.68%			
78) SS 1,2-DCB-d4_MS	19.75	152	122462	9.50	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.02%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	1096412	96.539	ug/L	100
3) chloromethane	3.19	50	978516	89.524	ug/L	99
4) vinyl chloride	3.33	62	460879	80.395	ug/L	99
5) bromomethane	3.99	94	693058	105.013	ug/L	97
6) chloroethane	4.10	64	603072	94.903	ug/L	99
7) trichlorofluoromethane	4.52	101	1417482	97.505	ug/L	99
20) vinyl acetate	8.05	43	1555483	11.110	ug/L	100
29) SS Dibromofluoromethane_MS	10.19	111	73710	9.564	ug/L	98
33) SS 1,2-DCA-d4_MS	11.32	65	92429	9.927	ug/L	99
43) Chlorobenzene-D5 IS	16.69	117	248910	9.836	ug/L	99
44) SS Toluene-d8_MS	14.65	98	324602	9.968	ug/L	100
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	130705	9.575	ug/L	92

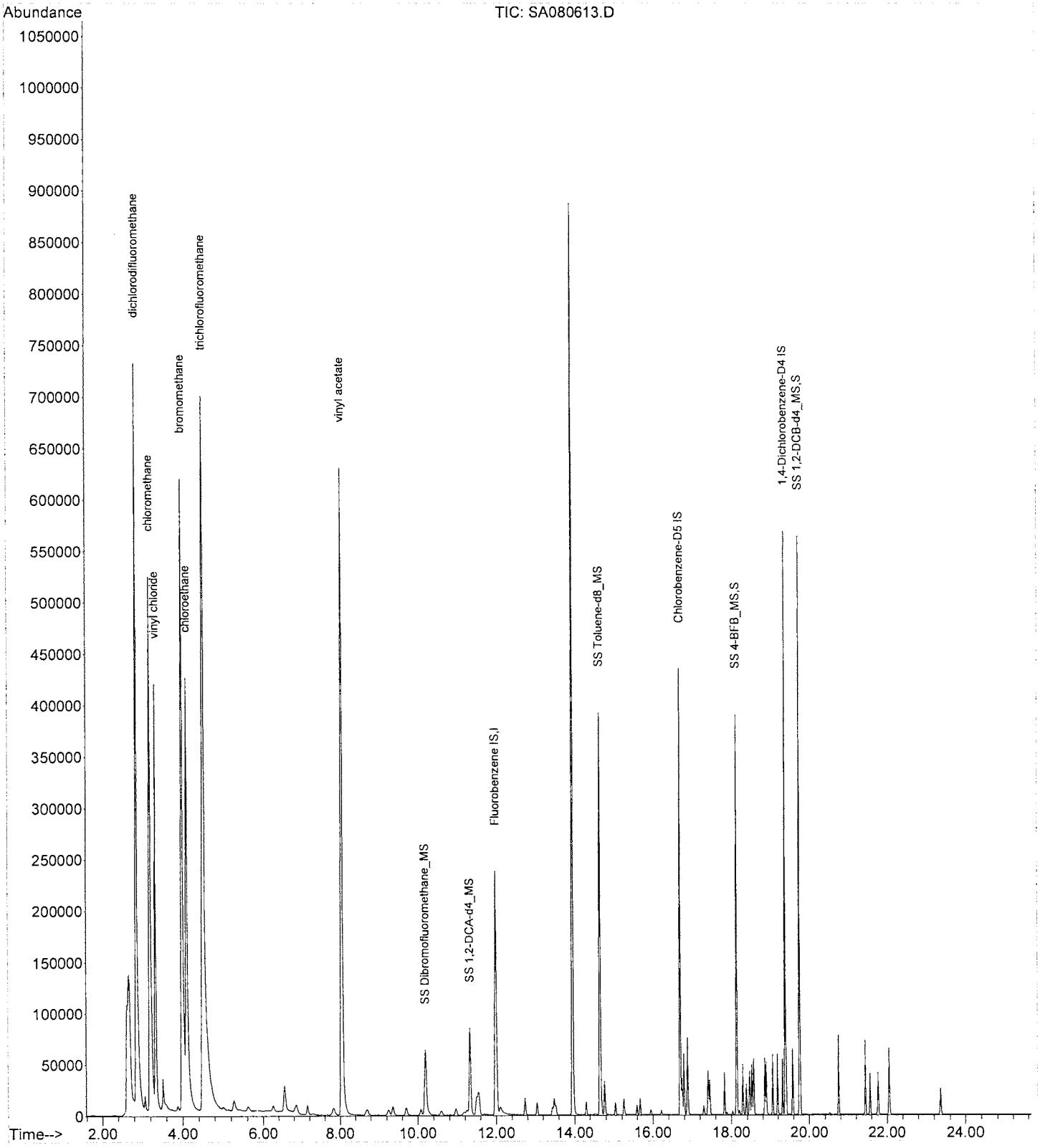
8/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA080613.D 5LID0806.M Wed Sep 12 10:23:06 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\2012\AUG12\AUG0612\SA080613.D Vial: 13
Acq On : 6 Aug 2012 2:57 pm Operator: BAM
Sample : 100 G Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 7:55 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Volatile Organics 524.2

Sample and QC Data

IS/SS ID= V- 3975

Standard ID= V- 3968A

Gas Standard ID= V- 3967

LCS/LCSD and/or MS/MSD Standard ID= V- 3970(G) 3963(L)

Analyst: BSun

Date: 9/6/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	pH<2	A
1	SA090601	BFB 25ng					VOCMS	5L1D080b	AutoTune		✓
2		STD05					VOCMS				✓
3		STD10					VOCMS		OK		✓
4		MB					VOCMS				
5		113643.01		✓		x1	VOCMS				
6		113644.01		✓			VOCMS				
7		" .02		✓			VOCMS				
8		113645.01		✓			VOCMS				
9		113743.01		✓			VOCMS				
10		" .02		✓			VOCMS				
11		" .08		✓			VOCMS				
12		113689.12		✓			VOCMS				
13		" .13		✓			VOCMS				
14		" .14		✓			VOCMS				
15		113816.01		✓			VOCMS				
16		113817.01		✓			VOCMS				
17		113818.01		✓			VOCMS				
18		" .02		✓			VOCMS				
19		" .03		✓			VOCMS				
20		LCS10					VOCMS				
21		LCSD10					VOCMS				
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Samples removed from autosampler, order and pH verified by BSun 9/7/12 1-21

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\SEPT0612\SA090601.D
Tune Time : 6 Sep 2012 11:19 am

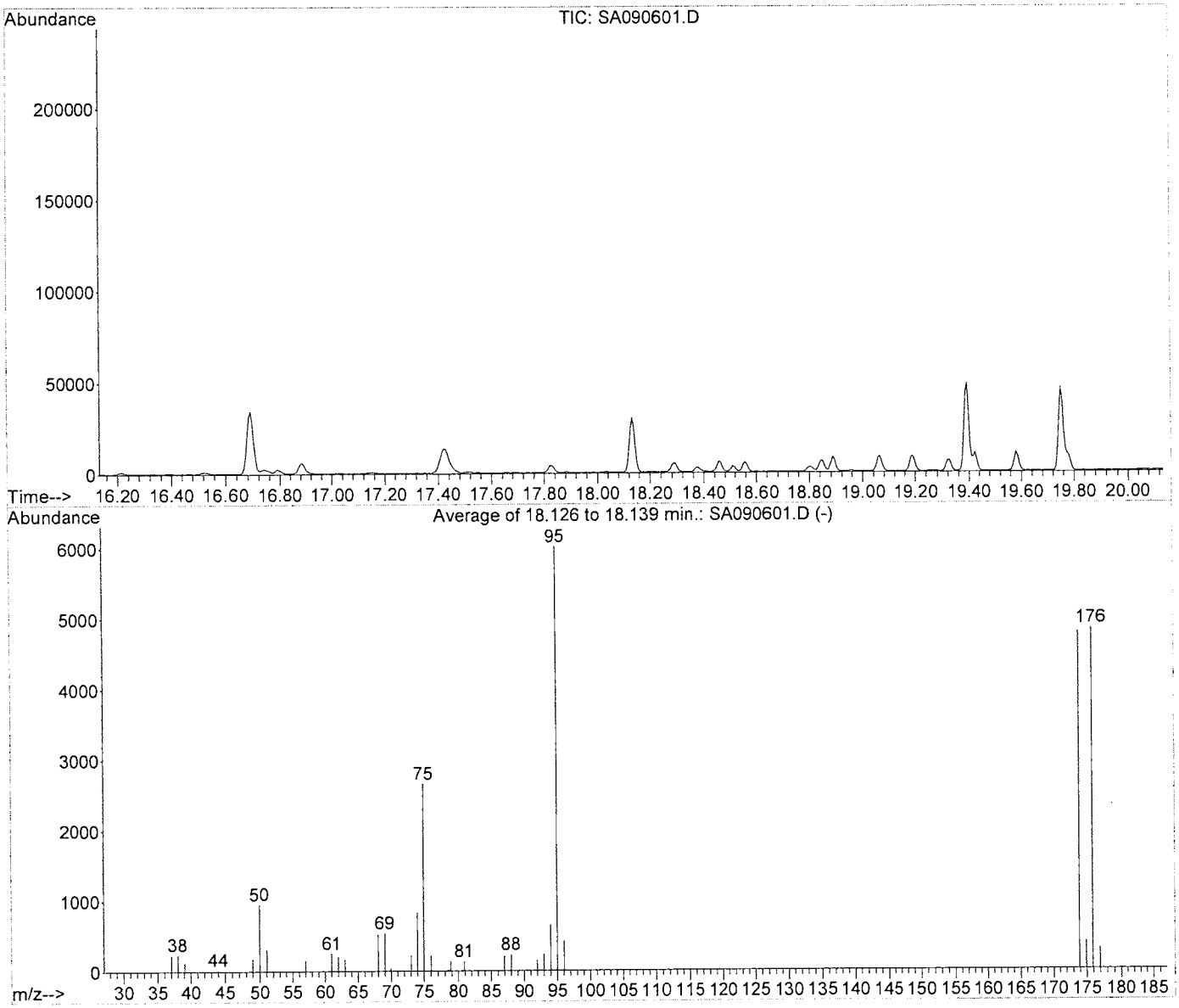
Daily Calibration File : C:\MSDCHEM\1\DATA\AUG0612\SA080608.D

File	Sample	Surrogate Recovery %		Internal Standard Responses
				324389
SA090602.D	STD 0.5	99	104	257911
SA090603.D	STD 10	104	111	262923
SA090604.D	MB	98	103	262969
SA090605.D	113643.01	98	104	256585
SA090606.D	113664.01	98	103	262498
SA090607.D	113664.02	98	104	252697
SA090608.D	113665.01	98	105	247349
SA090609.D	113743.01	98	106	253286
SA090610.D	113743.02	100	106	250123
SA090611.D	113743.08	98	106	247481
SA090612.D	113689.12	100	106	252334
SA090613.D	113689.13	99	108	242983
SA090614.D	113689.14	100	106	242288
SA090615.D	113816.01	100	107	249695
SA090616.D	113817.01	101	109	244260
SA090617.D	113818.01	100	108	243662
SA090618.D	113818.02	100	108	243384
SA090619.D	113818.03	101	108	238651
SA090620.D	LCS 10	107	113	255320
SA090621.D	LCSD 10	108	116	261034

t - fails 12hr time check * - fails criteria

Created: Mon Sep 10 13:05:26 2012 VOAMS5

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090601.D Vial: 1
Acq On : 6 Sep 2012 11:19 am Operator: BAM
Sample : BFB 25 NG Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012



AutoFind: Scans 2720, 2721, 2722; Background Corrected with Scan 2713

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	951	PASS
75	95	30	60	44.2	2661	PASS
95	95	100	100	100.0	6014	PASS
96	95	5	9	7.0	422	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.5	4781	PASS
175	174	5	9	8.2	393	PASS
176	174	95	101	101.0	4828	PASS
177	176	5	9	6.2	299	PASS

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090602.D Vial: 2
Acq On : 6 Sep 2012 11:53 am Operator: BAM
Sample : STD 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 13:11:51 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	257911	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB MS	18.13	95	95635	9.93	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.30%				
78) SS 1,2-DCB-d4 MS	19.75	152	102117	10.44	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.43%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.86	85	2818	0.327	ug/L	#	92
3) chloromethane	3.20	50	3242	0.394	ug/L		92
4) vinyl chloride	3.34	62	1761	0.412	ug/L		93
5) bromomethane	4.00	94	1252	0.247	ug/L	#	94
6) chloroethane	4.12	64	1855	0.385	ug/L		95
7) trichlorofluoromethane	4.52	101	3862	0.350	ug/L	#	98
8) diethyl ether	5.02	59	2288	0.437	ug/L		95
9) 1,1,2-Trichlorotrifluoroet	5.27	101	3490	0.451	ug/L	#	84
10) acetone	5.38	43	1426	0.442	ug/L	#	75
11) 1,1-dichloroethene	5.61	96	2989	0.416	ug/L		98
12) tert-Butyl Alcohol(TBA)	5.77	59	1536	2.870	ug/L	#	81
13) methylene chloride	6.55	84	4206	0.550	ug/L		98
14) carbon disulfide	6.57	76	16743	0.838	ug/L		96
15) acrylonitrile	6.80	53	622	0.247	ug/L	#	42
16) Methyl-t-butyl ether(MTBE)	6.86	73	16073	0.856	ug/L		97
17) trans-1,2-dichloroethene	7.15	96	3355	0.496	ug/L		89
18) hexane	7.29	57	3802	0.428	ug/L		96
19) Isopropyl ether(DIPE)	7.82	45	8462	0.404	ug/L	#	96
20) vinyl acetate	8.06	43	3421	0.278	ug/L	#	76
21) 1,1-dichloroethane	8.04	63	5405	0.447	ug/L	#	90
22) Ethyl-t-butyl ether(ETBE)	8.70	59	7351	0.381	ug/L	#	97
23) 2,2-dichloropropane	9.24	77	3612	0.350	ug/L	#	94
24) cis-1,2-dichloroethene	9.35	61	4093	0.445	ug/L		97
25) 2-butanone(MEK)	8.97	43	1188	0.453	ug/L	#	66
26) bromochloromethane	10.08	128	1762	0.488	ug/L		92
27) Tetrahydrofuran(THF)	10.16	42	868	0.516	ug/L	#	76
28) chloroform	9.70	83	12046	1.000	ug/L		98
29) SS Dibromofluoromethane MS	10.19	111	60218	10.293	ug/L	#	95
30) 1,1,1-trichloroethane	10.59	97	4453	0.426	ug/L		98
31) carbon tetrachloride	11.17	117	3540	0.394	ug/L	#	94
32) 1,1-dichloropropene	10.97	75	4195	0.414	ug/L	#	92
33) SS 1,2-DCA-d4 MS	11.32	65	65269	9.204	ug/L		97
34) tert-amyl methyl ether(TAM	11.23	73	6752	0.366	ug/L	#	81
35) benzene	11.56	78	14705	0.491	ug/L		98
36) 1,2-dichloroethane	11.53	62	4458	0.464	ug/L		95
37) trichloroethene	12.73	95	3870	0.480	ug/L		97
38) 1,2-dichloropropane	13.05	63	3451	0.487	ug/L		93
39) dibromomethane	13.53	93	2024	0.471	ug/L		89
40) bromodichloromethane	13.44	83	4323	0.500	ug/L		98
41) 4-methyl-2-pentanone(MIBK)	13.99	58	757	0.383	ug/L	#	88
42) cis-1,3-dichloropropene	14.30	75	3877	0.373	ug/L		94
43) Chlorobenzene-D5 IS	16.69	117	200790	10.426	ug/L		96
44) SS Toluene-d8 MS	14.65	98	255048	10.279	ug/L		97
45) toluene	14.77	91	17708	0.552	ug/L		98
46) trans-1,3-dichloropropene	15.03	75	3337	0.344	ug/L		95
47) 1,1,2-trichloroethane	15.25	83	2468	0.488	ug/L	#	94
48) 2-hexanone	15.25	43	1441	0.414	ug/L	#	96
49) tetrachloroethene	15.67	166	4169	0.497	ug/L		96
50) 1,3-dichloropropane	15.59	76	5143	0.484	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090602.D Vial: 2
Acq On : 6 Sep 2012 11:53 am Operator: BAM
Sample : STD 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 13:11:51 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

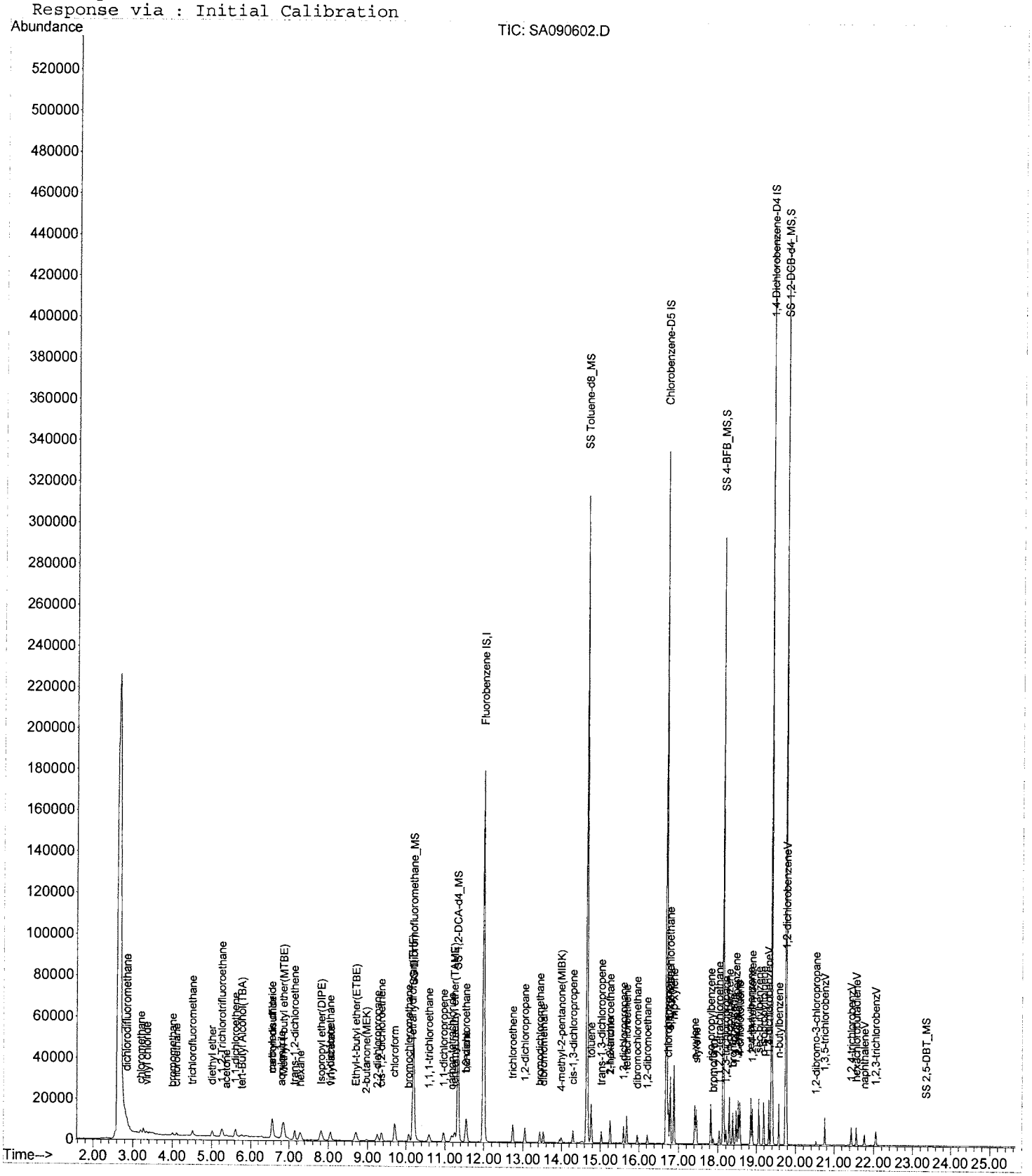
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
51)	dibromochloromethane	15.95	129	2550	0.415 ug/L	#	96
52)	1,2-dibromoethane	16.22	107	2906	0.463 ug/L	#	95
53)	chlorobenzene	16.74	112	11663	0.521 ug/L		95
54)	1,1,1,2-tetrachloroethane	16.78	131	3016	0.422 ug/L	#	73
55)	ethylbenzene	16.79	91	16937	0.460 ug/L		99
56)	mp-xylene	16.89	106	13066	0.866 ug/L		99
57)	o-xylene	17.41	106	6060	0.426 ug/L		97
58)	styrene	17.46	104	9807	0.426 ug/L		94
59)	bromoform	17.88	173	1246	1.554 ug/L	#	87
60)	iso-propylbenzene	17.83	105	13968	0.410 ug/L		99
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	107175	10.342 ug/L		91
63)	bromobenzene	18.38	156	4616	0.490 ug/L		95
64)	1,1,2,2-tetrachloroethane	18.03	83	3353	0.509 ug/L	#	1
65)	1,2,3-trichloropropane	18.21	110	1140	0.492 ug/L		86
66)	n-propylbenzene	18.28	91	18358	0.435 ug/L		100
67)	2-chlorotoluene	18.51	91	11940	0.454 ug/L		99
68)	4-chlorotoluene	18.56	91	11835	0.451 ug/L		99
69)	1,3,5-trimethylbenzene	18.45	105	9750	0.374 ug/L		99
70)	tert-butylbenzene	18.84	119	11105	0.412 ug/L		99
71)	1,2,4-trimethylbenzene	18.89	105	9301	0.362 ug/L		99
72)	sec-butylbenzene	19.06	105	15287	0.411 ug/L		99
73)	1,3-dichlorobenzeneV	19.32	146	8580	0.486 ug/L		96
74)	p-isopropyltoluene	19.18	119	11710	0.377 ug/L		98
75)	1,4-dichlorobenzeneV	19.32	146	8580	0.487 ug/L		96
76)	1,2-dichlorobenzeneV	19.78	146	8666	0.528 ug/L	#	2
77)	n-butylbenzene	19.58	91	9750	0.383 ug/L		97
79)	1,2-dibromo-3-chloropropan	20.52	157	497	0.414 ug/L		97
80)	1,3,5-trichlorobenzV	20.75	180	4611	0.471 ug/L		96
81)	1,2,4-trichlorobenzV	21.44	180	3383	0.417 ug/L		93
82)	hexachlorobutadieneV	21.56	225	1964	0.522 ug/L		95
83)	naphthaleneV	21.76	128	5114	0.307 ug/L	#	95
84)	1,2,3-trichlorobenzV	22.05	180	2864	0.411 ug/L		93
85)	SS 2,5-DBT_MS	23.36	250	140	3.474 ug/L	#	30

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090602.D envdef.m Fri Sep 21 13:15:45 2012

Quantitation Report (Not Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090602.D Vial: 2
Acq On : 6 Sep 2012 11:53 am Operator: BAM
Sample : STD 0.5 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 13:11 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 12:27 pm Operator: BAM
Sample : STD 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene IS	10.000	10.000	0.0	81	0.00
2	dichlorodifluoromethane	10.000	8.433	15.7	71	0.00
3	chloromethane	10.000	8.444	15.6	73	0.00
4	vinyl chloride	10.000	8.824	11.8	76	0.00
5	bromomethane	10.000	7.512	24.9	64	0.00
6	chloroethane	10.000	9.527	4.7	80	0.00
7	trichlorofluoromethane	10.000	9.362	6.4	77	0.00
8	diethyl ether	10.000	8.604	14.0	72	0.00
9	1,1,2-Trichlorotrifluoroeth	10.000	9.258	7.4	78	0.00
10	acetone	10.000	9.697	3.0	85	-0.01
11	1,1-dichloroethene	10.000	8.705	13.0	76	0.00
12	tert-Butyl Alcohol(TBA)	50.000	38.198	23.6	64	-0.02
13	methylene chloride	10.000	9.164	8.4	78	0.00
14	carbon disulfide	10.000	8.116	18.8	74	0.00
15	acrylonitrile	10.000	8.292	17.1	73	-0.01
16	Methyl-t-butyl ether(MTBE)	20.000	16.264	18.7	70	0.00
17	trans-1,2-dichloroethene	10.000	9.624	3.8	81	0.00
18	hexane	10.000	8.729	12.7	74	0.00
19	Isopropyl ether(DIPE)	10.000	8.410	15.9	72	0.00
20	vinyl acetate	10.000	8.263	17.4	71	0.00
21	1,1-dichloroethane	10.000	9.312	6.9	79	0.00
22	Ethyl-t-butyl ether(ETBE)	10.000	8.040	19.6	68	0.00
23	2,2-dichloropropane	10.000	7.390	26.1	63	0.00
24	cis-1,2-dichloroethene	10.000	8.843	11.6	75	0.00
25	2-butanone(MEK)	10.000	7.974	20.3	73	0.00
26	bromochloromethane	10.000	9.877	1.2	83	0.00
27	Tetrahydrofuran(THF)	10.000	7.703	23.0	71	0.00
28	chloroform	10.000	10.013	-0.1	85	0.00
29	SS Dibromofluoromethane_MS	10.000	10.619	-6.2	86	0.00
30	1,1,1-trichloroethane	10.000	8.613	13.9	72	0.00
31	carbon tetrachloride	10.000	8.620	13.8	72	0.00
32	1,1-dichloropropene	10.000	9.105	8.9	77	0.00
33	SS 1,2-DCA-d4_MS	10.000	9.102	9.0	73	0.00
34	tert-amyl methyl ether(TAME	10.000	7.986	20.1	68	0.00
35	benzene	10.000	9.800	2.0	84	0.00
36	1,2-dichloroethane	10.000	8.633	13.7	73	0.00
37	trichloroethene	10.000	9.335	6.6	80	0.00
38	1,2-dichloropropane	10.000	9.399	6.0	80	0.00
39	dibromomethane	10.000	9.508	4.9	80	0.00
40	bromodichloromethane	10.000	9.381	6.2	80	0.00
41	4-methyl-2-pentanone(MIBK)	10.000	8.713	12.9	74	0.00
42	cis-1,3-dichloropropene	10.000	8.825	11.8	75	0.00
43	Chlorobenzene-D5 IS	10.000	10.458	-4.6	85	0.00
44	SS Toluene-d8_MS	10.000	10.316	-3.2	84	0.00
45	toluene	10.000	9.748	2.5	84	0.00
46	trans-1,3-dichloropropene	10.000	8.516	14.8	72	0.00
47	1,1,2-trichloroethane	10.000	9.865	1.3	85	0.00
48	2-hexanone	10.000	7.860	21.4	68	0.00
49	tetrachloroethene	10.000	9.931	0.7	85	0.00
50	1,3-dichloropropane	10.000	9.670	3.3	83	0.00
51	dibromochloromethane	10.000	9.799	2.0	83	0.00
52	1,2-dibromoethane	10.000	9.725	2.8	83	0.00
53	chlorobenzene	10.000	9.962	0.4	86	0.00
54	1,1,1,2-tetrachloroethane	10.000	9.533	4.7	79	0.00
55	ethylbenzene	10.000	9.811	1.9	84	0.00
56	mp-xylene	20.000	19.791	1.0	85	0.00
57	o-xylene	10.000	9.746	2.5	82	0.00

58		styrene	10.000	10.113	-1.1	86	0.00
59		bromoform	10.000	8.894	11.1	84	0.00
60		iso-propylbenzene	10.000	9.781	2.2	83	0.00
61	S	SS 4-BFB_MS	10.000	10.360	-3.6	84	0.00
62		1,4-Dichlorobenzene-D4 IS	10.000	11.026	-10.3	90	0.00
63		bromobenzene	10.000	10.086	-0.9	87	0.00
64		1,1,2,2-tetrachloroethane	10.000	10.406	-4.1	87	0.00
65		1,2,3-trichloropropane	10.000	9.670	3.3	84	0.00
66		n-propylbenzene	10.000	9.845	1.5	83	0.00
67		2-chlorotoluene	10.000	9.805	2.0	84	0.00
68		4-chlorotoluene	10.000	9.727	2.7	83	0.00
69		1,3,5-trimethylbenzene	10.000	9.463	5.4	80	-0.01
70		tert-butylbenzene	10.000	9.782	2.2	83	0.00
71		1,2,4-trimethylbenzene	10.000	9.316	6.8	79	0.00
72		sec-butylbenzene	10.000	9.983	0.2	84	0.00
73		1,3-dichlorobenzeneV	10.000	10.225	-2.2	88	0.10
74		p-isopropyltoluene	10.000	10.077	-0.8	83	0.00
75		1,4-dichlorobenzeneV	10.000	10.258	-2.6	88	0.00
76		1,2-dichlorobenzeneV	10.000	10.253	-2.5	89	0.00
77		n-butylbenzene	10.000	10.134	-1.3	83	0.00
78	S	SS 1,2-DCB-d4_MS	10.000	11.061	-10.6	90	0.00
79		1,2-dibromo-3-chloropropane	10.000	10.229	-2.3	86	0.00
80		1,3,5-trichlorobenzV	10.000	10.159	-1.6	87	0.00
81		1,2,4-trichlorobenzV	10.000	10.092	-0.9	86	0.00
82		hexachlorobutadieneV	10.000	10.285	-2.9	88	0.00
83		naphthaleneV	10.000	10.593	-5.9	80	0.00
84		1,2,3-trichlorobenzV	10.000	10.386	-3.9	88	0.00
85		SS 2,5-DBT_MS	10.000	9.159	8.4	82	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA080608.D 5LID0806.M Mon Sep 10 13:06:00 2012

Blue 9/10/12

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 12:27 pm Operator: BAM
Sample : STD 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 13:12:02 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	262923	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	101714	10.36	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.60%				
78) SS 1,2-DCB-d4_MS	19.75	152	110262	11.06	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.61%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	74091	8.433	ug/L		99
3) chloromethane	3.19	50	70770	8.444	ug/L		99
4) vinyl chloride	3.34	62	38445	8.824	ug/L		100
5) bromomethane	3.99	94	38758	7.512	ug/L		95
6) chloroethane	4.11	64	46737	9.527	ug/L		98
7) trichlorofluoromethane	4.52	101	105419	9.362	ug/L		99
8) diethyl ether	5.02	59	45943	8.604	ug/L		99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	73083	9.258	ug/L		97
10) acetone	5.38	43	15258	9.697	ug/L		95
11) 1,1-dichloroethene	5.61	96	63784	8.705	ug/L		96
12) tert-Butyl Alcohol(TBA)	5.77	59	20842	38.198	ug/L	#	89
13) methylene chloride	6.55	84	71497	9.164	ug/L		98
14) carbon disulfide	6.57	76	165219	8.116	ug/L		99
15) acrylonitrile	6.81	53	21283	8.292	ug/L		100
16) Methyl-t-butyl ether(MTBE)	6.85	73	311340	16.264	ug/L		97
17) trans-1,2-dichloroethene	7.15	96	66336	9.624	ug/L		93
18) hexane	7.29	57	79111	8.729	ug/L		98
19) Isopropyl ether(DIPE)	7.81	45	179774	8.410	ug/L		99
20) vinyl acetate	8.05	43	103819	8.263	ug/L		98
21) 1,1-dichloroethane	8.04	63	114837	9.312	ug/L		100
22) Ethyl-t-butyl ether(ETBE)	8.69	59	158067	8.040	ug/L		97
23) 2,2-dichloropropane	9.25	77	77783	7.390	ug/L		98
24) cis-1,2-dichloroethene	9.35	61	82954	8.843	ug/L		94
25) 2-butanone(MEK)	8.96	43	21315	7.974	ug/L		97
26) bromochloromethane	10.08	128	36365	9.877	ug/L		95
27) Tetrahydrofuran(THF)	10.15	42	13208	7.703	ug/L		99
28) chloroform	9.71	83	123009	10.013	ug/L		98
29) SS Dibromofluoromethane_MS	10.19	111	63332	10.619	ug/L		96
30) 1,1,1-trichloroethane	10.60	97	91869	8.613	ug/L		99
31) carbon tetrachloride	11.17	117	78972	8.620	ug/L		97
32) 1,1-dichloropropene	10.97	75	94014	9.105	ug/L		91
33) SS 1,2-DCA-d4_MS	11.33	65	65799	9.102	ug/L		95
34) tert-amyl methyl ether(TAM	11.24	73	150173	7.986	ug/L	#	94
35) benzene	11.56	78	298998	9.800	ug/L		98
36) 1,2-dichloroethane	11.53	62	84568	8.633	ug/L		99
37) trichloroethene	12.73	95	76747	9.335	ug/L		96
38) 1,2-dichloropropane	13.05	63	67953	9.399	ug/L		95
39) dibromomethane	13.53	93	41668	9.508	ug/L		95
40) bromodichloromethane	13.44	83	82697	9.381	ug/L		99
41) 4-methyl-2-pentanone(MIBK)	13.98	58	17565	8.713	ug/L		99
42) cis-1,3-dichloropropene	14.30	75	93561	8.825	ug/L		91
43) Chlorobenzene-D5 IS	16.69	117	205310	10.458	ug/L		96
44) SS Toluene-d8_MS	14.65	98	260946	10.316	ug/L		97

(#) = qualifier out of range (m) = manual integration

Data File : W:\1\DATA\SEP12\SEPT0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 12:27 pm Operator: BAM
Sample : STD 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 06 13:12:02 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

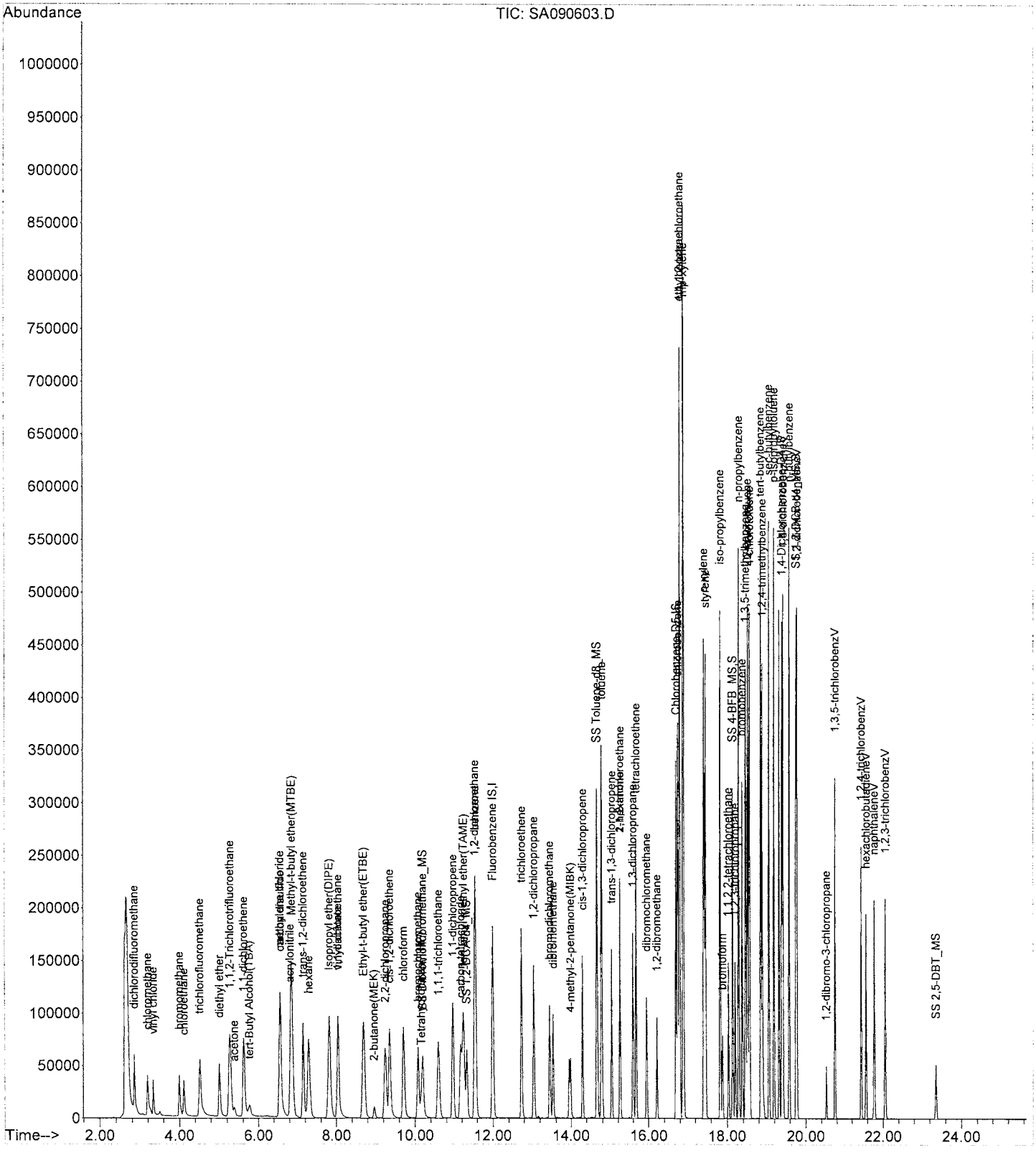
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	319075	9.748	ug/L		99
46)	trans-1,3-dichloropropene	15.03	75	84135	8.516	ug/L		92
47)	1,1,2-trichloroethane	15.25	83	50824	9.865	ug/L		97
48)	2-hexanone	15.25	43	27871	7.860	ug/L		97
49)	tetrachloroethene	15.67	166	84858	9.931	ug/L	#	95
50)	1,3-dichloropropane	15.59	76	104841	9.670	ug/L		90
51)	dibromochloromethane	15.95	129	61337	9.799	ug/L	#	100
52)	1,2-dibromoethane	16.22	107	62272	9.725	ug/L	#	99
53)	chlorobenzene	16.74	112	227560	9.962	ug/L		96
54)	1,1,1,2-tetrachloroethane	16.79	131	69529	9.533	ug/L		97
55)	ethylbenzene	16.79	91	368274	9.811	ug/L		99
56)	mp-xylene	16.89	106	304376	19.791	ug/L		97
57)	o-xylene	17.41	106	141294	9.746	ug/L		99
58)	styrene	17.46	104	237374	10.113	ug/L		98
59)	bromoform	17.88	173	34359	8.894	ug/L		95
60)	iso-propylbenzene	17.83	105	339277	9.781	ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	116479	11.026	ug/L		97
63)	bromobenzene	18.38	156	96841	10.086	ug/L		94
64)	1,1,2,2-tetrachloroethane	18.03	83	69932	10.406	ug/L		99
65)	1,2,3-trichloropropane	18.20	110	22858	9.670	ug/L		98
66)	n-propylbenzene	18.28	91	423724	9.845	ug/L		99
67)	2-chlorotoluene	18.51	91	263004	9.805	ug/L		98
68)	4-chlorotoluene	18.56	91	260414	9.727	ug/L		98
69)	1,3,5-trimethylbenzene	18.45	105	251693	9.463	ug/L		98
70)	tert-butylbenzene	18.84	119	268865	9.782	ug/L		97
71)	1,2,4-trimethylbenzene	18.89	105	243846	9.316	ug/L		98
72)	sec-butylbenzene	19.06	105	378272	9.983	ug/L		98
73)	1,3-dichlorobenzeneV	19.42	146	184074	10.225	ug/L		96
74)	p-isopropyltoluene	19.19	119	319385	10.077	ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	184074	10.258	ug/L		96
76)	1,2-dichlorobenzeneV	19.78	146	171486	10.253	ug/L	#	94
77)	n-butylbenzene	19.58	91	262800	10.134	ug/L		99
79)	1,2-dibromo-3-chloropropan	20.52	157	12516	10.229	ug/L		92
80)	1,3,5-trichlorobenzV	20.75	180	101377	10.159	ug/L		96
81)	1,2,4-trichlorobenzV	21.44	180	83478	10.092	ug/L		95
82)	hexachlorobutadieneV	21.56	225	39480	10.285	ug/L		96
83)	naphthaleneV	21.76	128	179901	10.593	ug/L		99
84)	1,2,3-trichlorobenzV	22.05	180	73735	10.386	ug/L		95
85)	SS 2,5-DBT_MS	23.36	250	14399	9.159	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 12:27 pm Operator: BAM
Sample : STD 10 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 6 13:12 2012 Quant Results File: 5LID0806.RES

Method : W:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090604.D Vial: 4
Acq On : 6 Sep 2012 1:01 pm Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:53:50 2012 Quant Results File: 5LID0806.RES

Quant Method : U:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	262969	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	96632	9.84	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.41%			
78) SS 1,2-DCB-d4_MS	19.75	152	103174	10.35	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.48%			
Target Compounds						Qvalue
10) acetone	5.37	43	166	Below Cal	#	39
14) carbon disulfide	6.57	76	8267	0.406	ug/L #	78
29) SS Dibromofluoromethane_MS	10.19	111	61703	10.344	ug/L #	95
33) SS 1,2-DCA-d4_MS	11.33	65	66758	9.233	ug/L	97
43) Chlorobenzene-D5 IS	16.69	117	204237	10.401	ug/L	96
44) SS Toluene-d8_MS	14.65	98	260518	10.298	ug/L	97
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	108352	10.254	ug/L	90
80) 1,3,5-trichlorobenzV	20.75	180	1806	0.181	ug/L	95
81) 1,2,4-trichlorobenzV	21.44	180	1714	0.207	ug/L	90
82) hexachlorobutadieneV	21.57	225	604	0.157	ug/L #	78
83) naphthaleneV	21.77	128	2265	0.133	ug/L #	84
84) 1,2,3-trichlorobenzV	22.06	180	1644	0.232	ug/L #	90
85) SS 2,5-DBT_MS	23.36	250	118	3.464	ug/L #	15

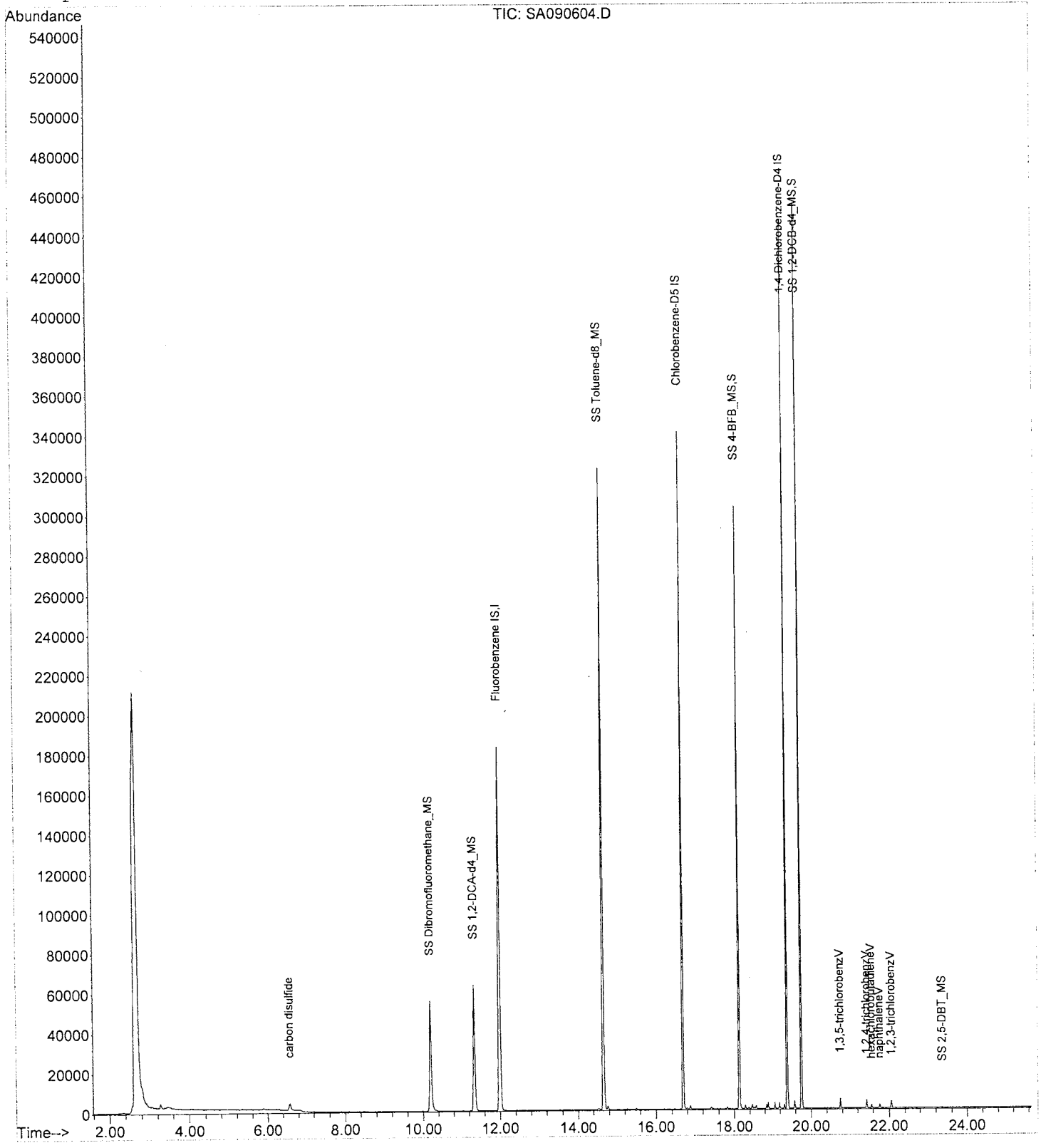
Below 9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090604.D Vial: 4
Acq On : 6 Sep 2012 1:01 pm Operator: BAM
Sample : MB Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:53 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090612.D Vial: 12
Acq On : 6 Sep 2012 5:34 pm Operator: BAM
Sample : 113689.12 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 07:54:13 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	252334	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	94693	10.05	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%			
78) SS 1,2-DCB-d4_MS	19.75	152	101465	10.61	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.06%			
Target Compounds						Qvalue
8) diethyl ether	5.02	59	1086	0.212	ug/L	97
10) acetone	5.38	43	988	0.157	ug/L #	69
14) carbon disulfide	6.57	76	6646	0.340	ug/L #	79
29) SS Dibromofluoromethane_MS	10.19	111	59381	10.374	ug/L	95
33) SS 1,2-DCA-d4_MS	11.32	65	64754	9.333	ug/L	97
43) Chlorobenzene-D5 IS	16.69	117	200886	10.662	ug/L	96
44) SS Toluene-d8_MS	14.65	98	251991	10.381	ug/L	97
59) bromoform	18.14	173	89	~~1.293~~	ug/L #	1
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	105861	10.441	ug/L	90

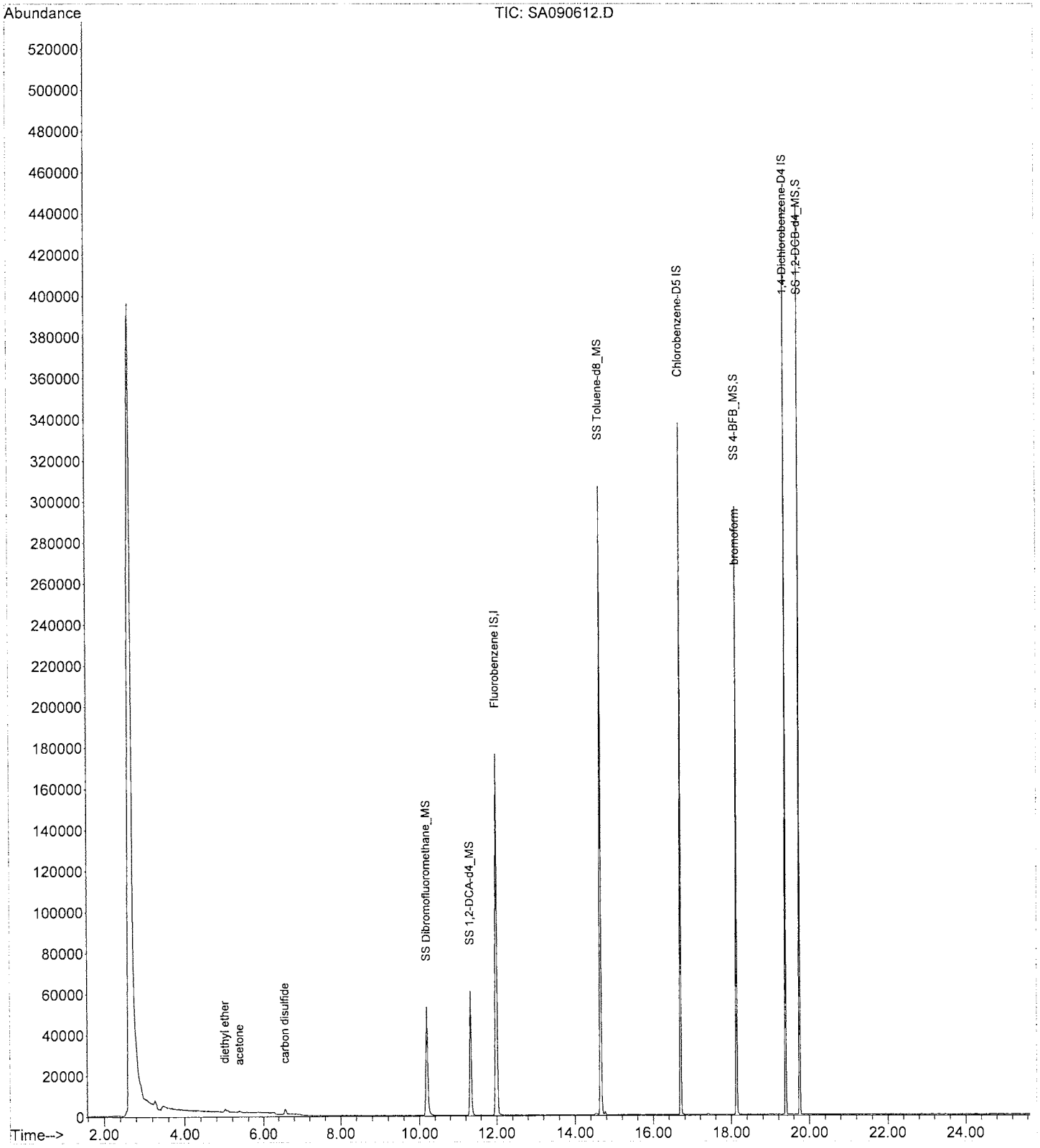
9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090612.D 5LID0806.M Fri Sep 07 07:54:14 2012

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090612.D Vial: 12
Acq On : 6 Sep 2012 5:34 pm Operator: BAM
Sample : 113689.12 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 7:54 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090613.D Vial: 13
Acq On : 6 Sep 2012 6:08 pm Operator: BAM
Sample : 113689.13 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 07:54:17 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	242983	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	89964	9.92	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
78) SS 1,2-DCB-d4_MS	19.75	152	99131	10.76	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.61%			
Target Compounds						Qvalue
10) acetone	5.37	43	2130	1.012	ug/L #	85
14) carbon disulfide	6.57	76	6730	0.358	ug/L #	77
29) SS Dibromofluoromethane_MS	10.19	111	57386	10.411	ug/L #	95
33) SS 1,2-DCA-d4_MS	11.33	65	62823	9.403	ug/L	98
43) Chlorobenzene-D5 IS	16.69	117	194684	10.730	ug/L	96
44) SS Toluene-d8_MS	14.65	98	243971	10.437	ug/L	97
59) bromoform	18.15	173	41	~~1.283~~	ug/L #	1
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	102439	10.492	ug/L	89

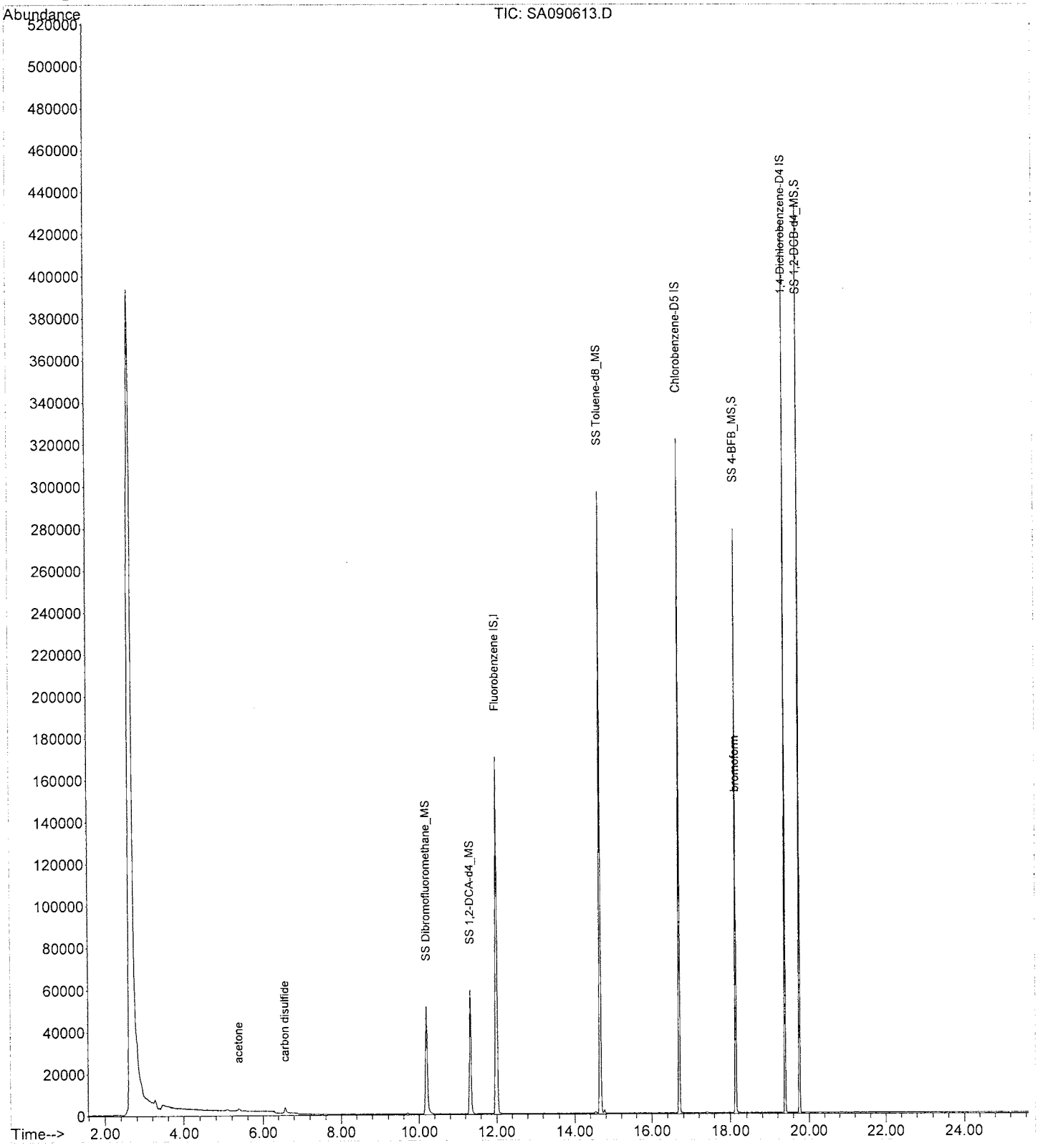
BLM 9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090613.D Vial: 13
Acq On : 6 Sep 2012 6:08 pm Operator: BAM
Sample : 113689.13 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 7:54 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 6:42 pm Operator: BAM
Sample : 113689.14 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 07 07:54:21 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	242288	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	90437	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.96%			
78) SS 1,2-DCB-d4_MS	19.75	152	97398	10.60	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.03%			
Target Compounds						Qvalue
10) acetone	5.38	43	886	0.112	ug/L #	46
14) carbon disulfide	6.57	76	6375	0.340	ug/L #	72
29) SS Dibromofluoromethane_MS	10.19	111	56549	10.289	ug/L #	95
33) SS 1,2-DCA-d4_MS	11.33	65	62573	9.392	ug/L	98
43) Chlorobenzene-D5 IS	16.69	117	193754	10.710	ug/L	96
44) SS Toluene-d8_MS	14.65	98	242779	10.416	ug/L	97
62) 1,4-Dichlorobenzene-D4 IS	19.39	152	100580	10.331	ug/L	91

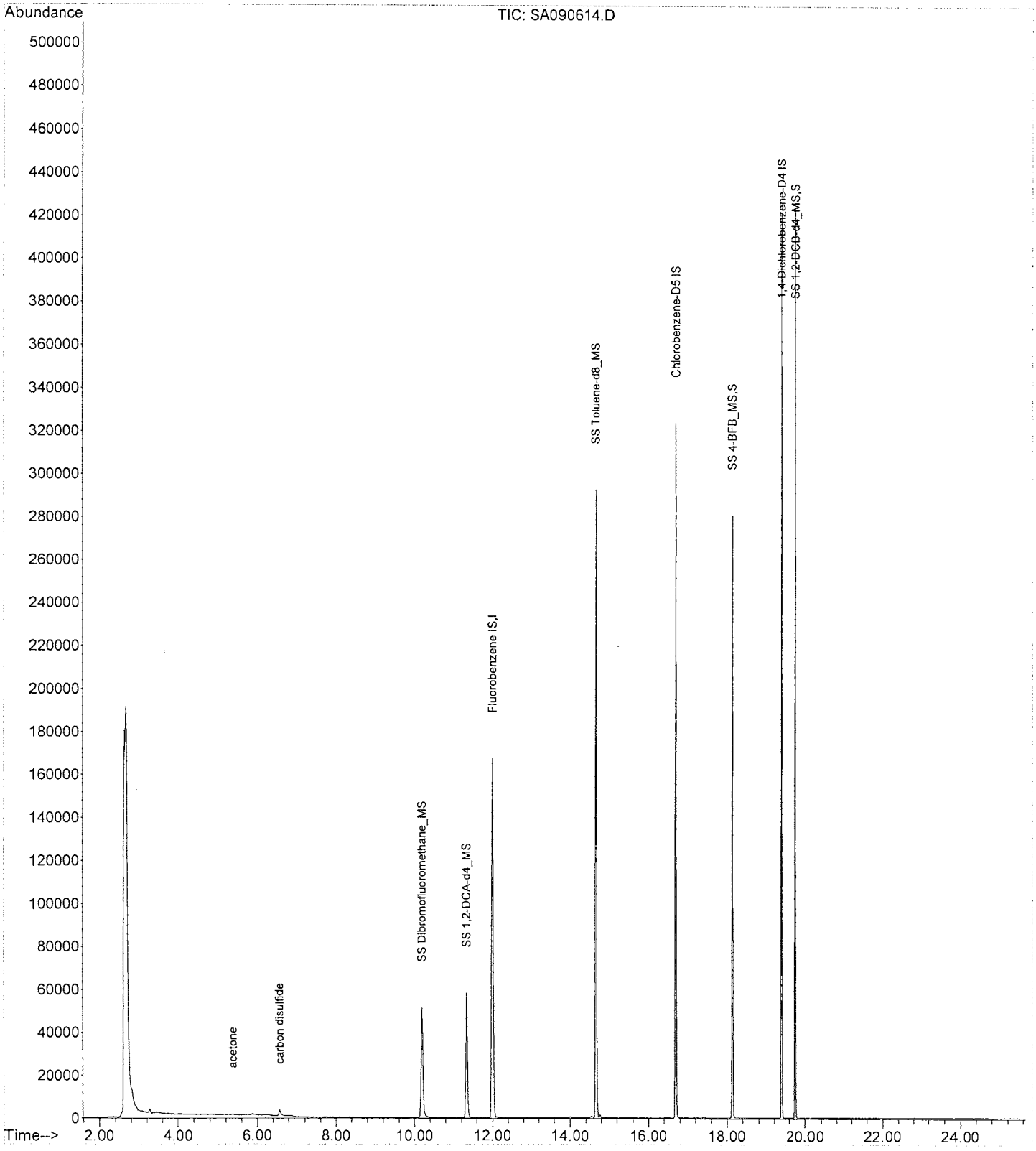
B 9/10/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\SEPT0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 6:42 pm Operator: BAM
Sample : 113689.14 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 7 7:54 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDCHEM\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090620.D Vial: 20
Acq On : 6 Sep 2012 10:07 pm Operator: BAM
Sample : LCSaA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54:10 2012 Quant Results File: 5LID0806.RES

Quant Method : U:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene IS	11.99	96	255320	10.000	ug/L		0.00
System Monitoring Compounds							
61) SS 4-BFB_MS	18.13	95	101609	10.66	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.57%				
78) SS 1,2-DCB-d4_MS	19.75	152	109596	11.32	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.22%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.85	85	56715	6.647	ug/L		100
3) chloromethane	3.19	50	61364	7.540	ug/L		99
4) vinyl chloride	3.34	62	34323	8.112	ug/L		99
5) bromomethane	3.99	94	36893	7.363	ug/L		99
6) chloroethane	4.11	64	43677	9.168	ug/L		99
7) trichlorofluoromethane	4.52	101	98298	8.990	ug/L		99
8) diethyl ether	5.02	59	43900	8.466	ug/L		99
9) 1,1,2-Trichlorotrifluoroet	5.27	101	68702	8.962	ug/L		98
10) acetone	5.38	43	14297	9.338	ug/L		97
11) 1,1-dichloroethene	5.62	96	60153	8.454	ug/L		96
12) tert-Butyl Alcohol(TBA)	5.77	59	20088	37.913	ug/L	#	87
13) methylene chloride	6.55	84	69902	9.227	ug/L		98
14) carbon disulfide	6.57	76	155060	7.844	ug/L		98
15) acrylonitrile	6.81	53	17967	7.209	ug/L		98
16) Methyl-t-butyl ether(MTBE)	6.85	73	146741	7.894	ug/L		96
17) trans-1,2-dichloroethene	7.15	96	63497	9.486	ug/L		93
19) Isopropyl ether(DIPE)	7.82	45	170042	8.192	ug/L		98
20) vinyl acetate	8.06	43	71549	5.865	ug/L		96
21) 1,1-dichloroethane	8.04	63	111386	9.301	ug/L		99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	155551	8.147	ug/L		97
23) 2,2-dichloropropane	9.25	77	60984	5.966	ug/L		95
24) cis-1,2-dichloroethene	9.35	61	89958	9.875	ug/L		98
25) 2-butanone(MEK)	8.96	43	19052	7.340	ug/L		96
26) bromochloromethane	10.08	128	34768	9.724	ug/L		94
27) Tetrahydrofuran(THF)	10.16	42	12943	7.773	ug/L		97
28) chloroform	9.71	83	115473	9.679	ug/L		98
29) SS Dibromofluoromethane_MS	10.20	111	60925	10.519	ug/L		96
30) 1,1,1-trichloroethane	10.60	97	88302	8.525	ug/L		99
31) carbon tetrachloride	11.17	117	74576	8.383	ug/L		97
32) 1,1-dichloropropene	10.97	75	91080	9.084	ug/L		91
33) SS 1,2-DCA-d4_MS	11.33	65	64966	9.254	ug/L		96
34) tert-amyl methyl ether(TAM	11.24	73	146035	7.997	ug/L	#	60
35) benzene	11.56	78	296441	10.006	ug/L		98
36) 1,2-dichloroethane	11.53	62	81963	8.616	ug/L		99
37) trichloroethene	12.73	95	74868	9.378	ug/L		96
38) 1,2-dichloropropane	13.05	63	65971	9.397	ug/L		96
39) dibromomethane	13.53	93	41079	9.653	ug/L		95
40) bromodichloromethane	13.44	83	77892	9.100	ug/L		99
41) 4-methyl-2-pentanone(MIBK)	13.99	58	15681	8.010	ug/L		96
42) cis-1,3-dichloropropene	14.30	75	87807	8.529	ug/L		92
43) Chlorobenzene-D5 IS	16.69	117	203734	10.686	ug/L		96
44) SS Toluene-d8_MS	14.66	98	255165	10.388	ug/L		97
45) toluene	14.77	91	315472	9.925	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090620.D Vial: 20
Acq On : 6 Sep 2012 10:07 pm Operator: BAM
Sample : LCSaA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54:10 2012 Quant Results File: 5LID0806.RES

Quant Method : U:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

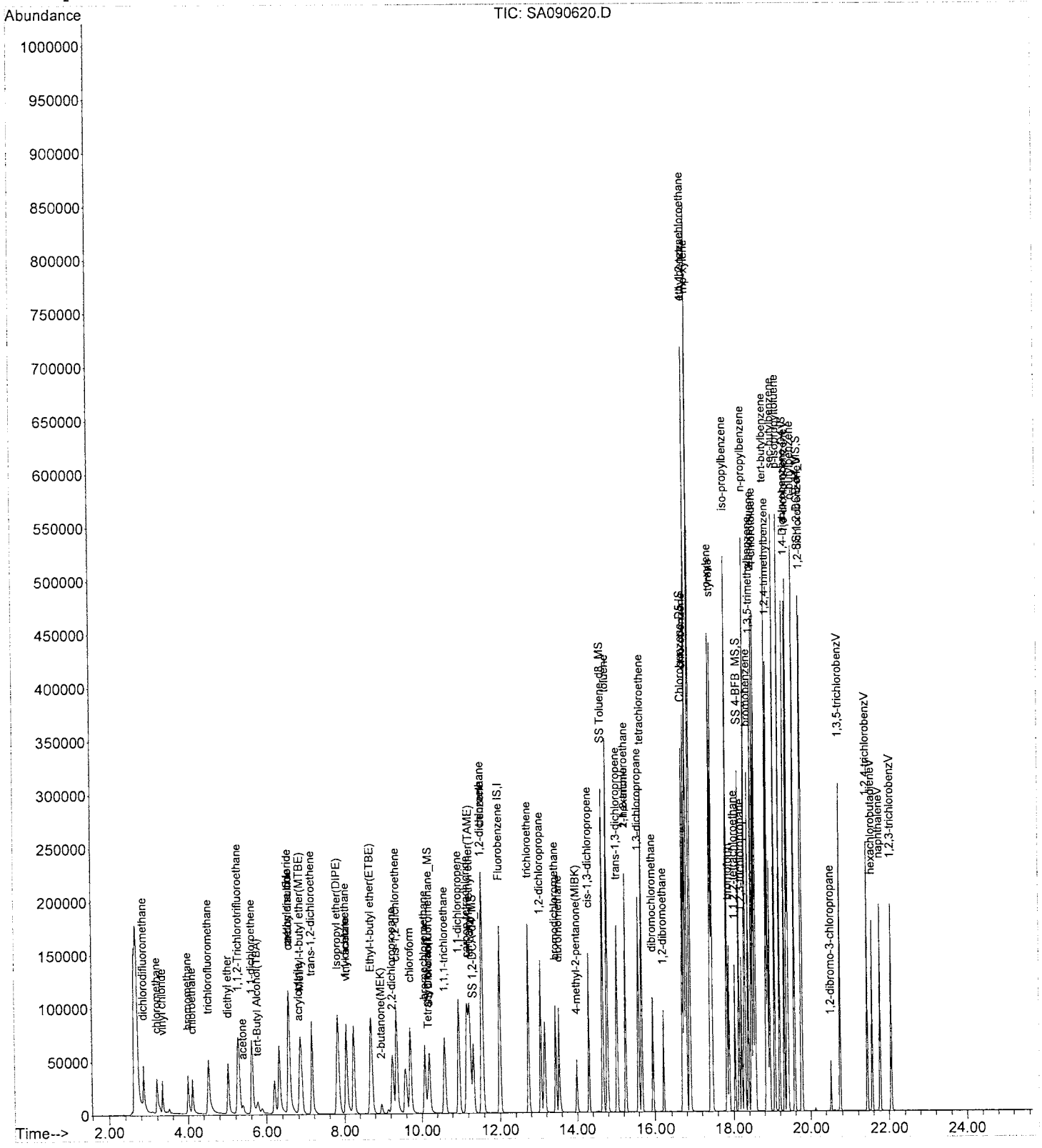
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	trans-1,3-dichloropropene	15.03	75	78601	8.193	ug/L	#	85
47)	1,1,2-trichloroethane	15.25	83	50731	10.140	ug/L		97
48)	2-hexanone	15.25	43	26950	7.826	ug/L		97
49)	tetrachloroethene	15.67	166	98194	11.834	ug/L	#	95
50)	1,3-dichloropropane	15.60	76	105135	9.986	ug/L		97
51)	dibromochloromethane	15.95	129	58097	9.558	ug/L	#	100
52)	1,2-dibromoethane	16.22	107	59793	9.616	ug/L	#	98
53)	chlorobenzene	16.74	112	220434	9.937	ug/L		96
54)	1,1,1,2-tetrachloroethane	16.79	131	67604	9.545	ug/L		99
55)	ethylbenzene	16.79	91	365420	10.025	ug/L		99
56)	mp-xylene	16.89	106	300321	20.109	ug/L		96
57)	o-xylene	17.41	106	139521	9.910	ug/L		98
58)	styrene	17.46	104	238589	10.468	ug/L		98
59)	bromoform	17.88	173	35024	9.272	ug/L		94
60)	iso-propylbenzene	17.83	105	362281	10.755	ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	118015	11.504	ug/L		97
63)	bromobenzene	18.38	156	95712	10.265	ug/L		93
64)	1,1,2,2-tetrachloroethane	18.03	83	65818	10.085	ug/L		98
65)	1,2,3-trichloropropane	18.20	110	22191	9.668	ug/L		96
66)	n-propylbenzene	18.28	91	426745	10.211	ug/L		99
67)	2-chlorotoluene	18.51	91	253833	9.745	ug/L		98
68)	4-chlorotoluene	18.56	91	254994	9.808	ug/L		98
69)	1,3,5-trimethylbenzene	18.45	105	246480	9.543	ug/L		99
70)	tert-butylbenzene	18.84	119	266799	9.996	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	236563	9.307	ug/L		98
72)	sec-butylbenzene	19.06	105	369947	10.054	ug/L		98
73)	1,3-dichlorobenzeneV	19.42	146	180989	10.353	ug/L		96
74)	p-isopropyltoluene	19.19	119	317322	10.310	ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	180989	10.386	ug/L		96
76)	1,2-dichlorobenzeneV	19.78	146	165572	10.194	ug/L	#	94
77)	n-butylbenzene	19.58	91	252270	10.018	ug/L		99
79)	1,2-dibromo-3-chloropropan	20.52	157	11851	9.974	ug/L		92
80)	1,3,5-trichlorobenzV	20.75	180	96474	9.956	ug/L		96
81)	1,2,4-trichlorobenzV	21.44	180	82052	10.215	ug/L		94
82)	hexachlorobutadieneV	21.56	225	36068	9.676	ug/L		96
83)	naphthaleneV	21.76	128	164523	9.976	ug/L		98
84)	1,2,3-trichlorobenzV	22.05	180	68769	9.975	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090620.D Vial: 20
Acq On : 6 Sep 2012 10:07 pm Operator: BAM
Sample : LCSaA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54 2012 Quant Results File: 5LID0806.RES

Method : W:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090621.D Vial: 21
Acq On : 6 Sep 2012 10:41 pm Operator: BAM
Sample : LCSDA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54:56 2012 Quant Results File: 5LID0806.RES

Quant Method : U:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	261034	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.13	95	105094	10.78	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.82%			
78) SS 1,2-DCB-d4_MS	19.75	152	114492	11.57	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.69%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.85	85	54639	6.264	ug/L	100
3) chloromethane	3.19	50	57551	6.916	ug/L	99
4) vinyl chloride	3.34	62	33153	7.664	ug/L	100
5) bromomethane	3.99	94	37739	7.367	ug/L	98
6) chloroethane	4.11	64	41846	8.592	ug/L	98
7) trichlorofluoromethane	4.52	101	94759	8.477	ug/L	100
8) diethyl ether	5.02	59	43504	8.206	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	5.27	101	66035	8.425	ug/L	98
10) acetone	5.38	43	14295	9.121	ug/L	96
11) 1,1-dichloroethene	5.61	96	58961	8.105	ug/L	94
12) tert-Butyl Alcohol(TBA)	5.78	59	21025	38.813	ug/L #	86
13) methylene chloride	6.55	84	67636	8.732	ug/L	97
14) carbon disulfide	6.57	76	155592	7.699	ug/L	98
15) acrylonitrile	6.82	53	18729	7.350	ug/L	96
16) Methyl-t-butyl ether(MTBE)	6.85	73	146476	7.707	ug/L	97
17) trans-1,2-dichloroethene	7.15	96	61376	8.969	ug/L	93
19) Isopropyl ether(DIPE)	7.82	45	168359	7.933	ug/L	99
20) vinyl acetate	8.05	43	72726	5.830	ug/L	97
21) 1,1-dichloroethane	8.04	63	107214	8.757	ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.69	59	154920	7.937	ug/L	96
23) 2,2-dichloropropane	9.25	77	60391	5.779	ug/L	96
24) cis-1,2-dichloroethene	9.35	61	85352	9.164	ug/L	97
25) 2-butanone(MEK)	8.96	43	19573	7.375	ug/L	96
26) bromochloromethane	10.08	128	34174	9.349	ug/L	93
27) Tetrahydrofuran(THF)	10.16	42	13199	7.753	ug/L	97
28) chloroform	9.71	83	112331	9.210	ug/L	97
29) SS Dibromofluoromethane_MS	10.19	111	62690	10.587	ug/L	96
30) 1,1,1-trichloroethane	10.59	97	86388	8.158	ug/L	99
31) carbon tetrachloride	11.17	117	73210	8.049	ug/L	98
32) 1,1-dichloropropene	10.97	75	87376	8.524	ug/L	91
33) SS 1,2-DCA-d4_MS	11.33	65	66633	9.284	ug/L	96
34) tert-amyl methyl ether(TAM	11.25	73	146816	7.864	ug/L #	61
35) benzene	11.56	78	287356	9.487	ug/L	98
36) 1,2-dichloroethane	11.53	62	80566	8.284	ug/L	99
37) trichloroethene	12.73	95	71451	8.754	ug/L	96
38) 1,2-dichloropropane	13.05	63	63871	8.899	ug/L	95
39) dibromomethane	13.53	93	40960	9.414	ug/L	95
40) bromodichloromethane	13.44	83	76043	8.689	ug/L	99
41) 4-methyl-2-pentanone(MIBK)	13.98	58	16052	8.020	ug/L	95
42) cis-1,3-dichloropropene	14.30	75	87003	8.266	ug/L	91
43) Chlorobenzene-D5 IS	16.69	117	210206	10.785	ug/L	96
44) SS Toluene-d8_MS	14.65	98	262581	10.456	ug/L	97
45) toluene	14.77	91	305330	9.396	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090621.D Vial: 21
Acq On : 6 Sep 2012 10:41 pm Operator: BAM
Sample : LCSDA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54:56 2012 Quant Results File: 5LID0806.RES

Quant Method : U:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

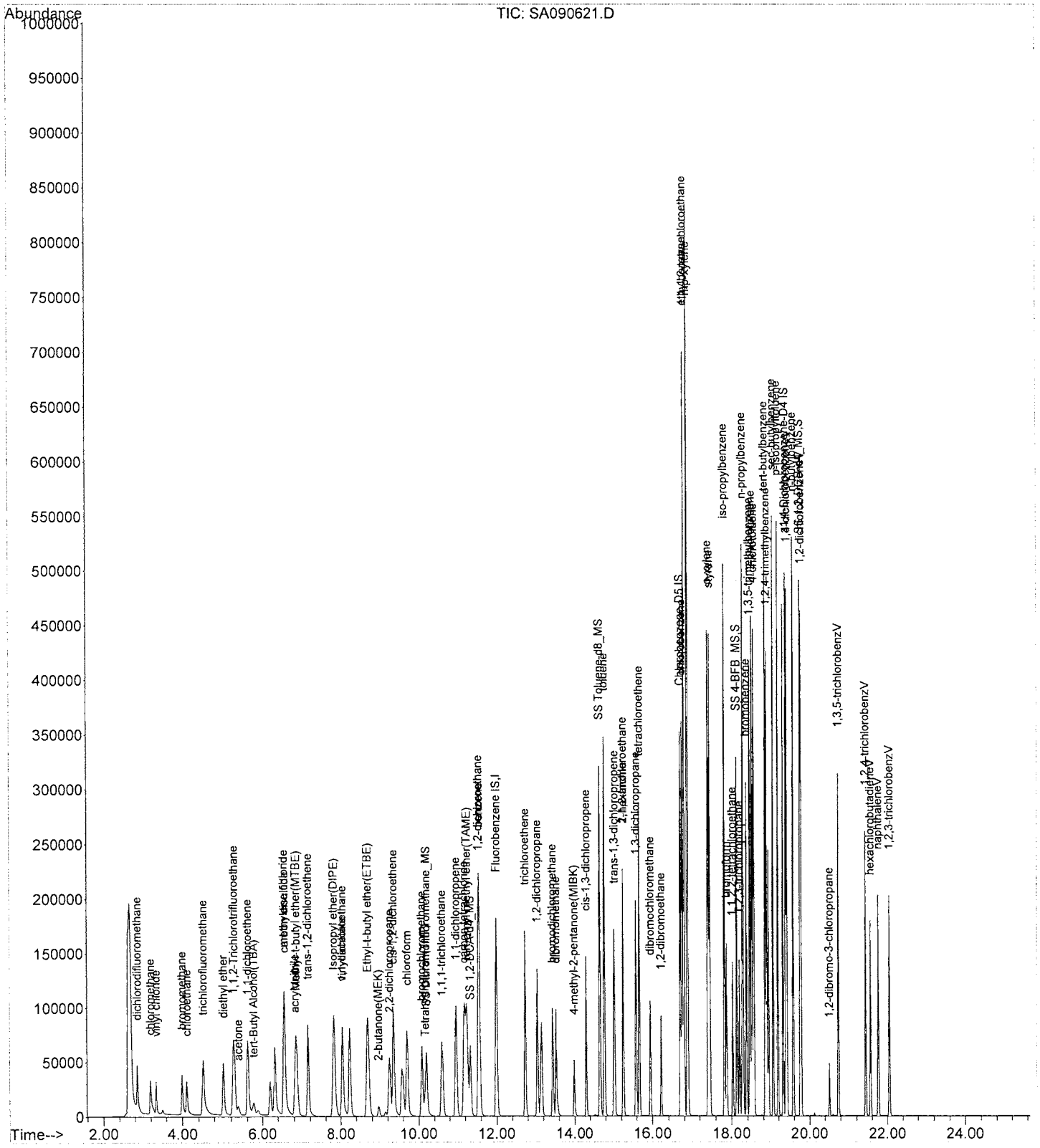
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	trans-1,3-dichloropropene	15.03	75	78127	7.965	ug/L	#	84
47)	1,1,2-trichloroethane	15.25	83	49891	9.754	ug/L		96
48)	2-hexanone	15.25	43	28490	8.092	ug/L		98
49)	tetrachloroethene	15.67	166	92624	10.918	ug/L	#	94
50)	1,3-dichloropropane	15.59	76	103701	9.634	ug/L		98
51)	dibromochloromethane	15.95	129	57118	9.191	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	59645	9.383	ug/L	#	99
53)	chlorobenzene	16.74	112	216873	9.563	ug/L		95
54)	1,1,1,2-tetrachloroethane	16.79	131	66892	9.238	ug/L		99
55)	ethylbenzene	16.79	91	352716	9.465	ug/L		98
56)	mp-xylene	16.89	106	291512	19.092	ug/L		96
57)	o-xylene	17.41	106	137013	9.519	ug/L		98
58)	styrene	17.46	104	234988	10.084	ug/L		97
59)	bromoform	17.88	173	35294	9.158	ug/L		93
60)	iso-propylbenzene	17.83	105	353033	10.251	ug/L		98
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	121916	11.624	ug/L		97
63)	bromobenzene	18.38	156	92881	9.744	ug/L		94
64)	1,1,2,2-tetrachloroethane	18.03	83	67974	10.188	ug/L		98
65)	1,2,3-trichloropropane	18.20	110	21852	9.312	ug/L		99
66)	n-propylbenzene	18.28	91	412668	9.658	ug/L		99
67)	2-chlorotoluene	18.51	91	248032	9.314	ug/L		99
68)	4-chlorotoluene	18.56	91	248507	9.349	ug/L		98
69)	1,3,5-trimethylbenzene	18.45	105	244376	9.254	ug/L		98
70)	tert-butylbenzene	18.84	119	260888	9.560	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	237610	9.143	ug/L		98
72)	sec-butylbenzene	19.06	105	361857	9.619	ug/L		98
73)	1,3-dichlorobenzeneV	19.42	146	177652	9.939	ug/L		96
74)	p-isopropyltoluene	19.19	119	311412	9.896	ug/L		98
75)	1,4-dichlorobenzeneV	19.42	146	177652	9.971	ug/L		96
76)	1,2-dichlorobenzeneV	19.77	146	164619	9.914	ug/L	#	95
77)	n-butylbenzene	19.58	91	249872	9.706	ug/L		99
79)	1,2-dibromo-3-chloropropan	20.52	157	12280	10.109	ug/L		92
80)	1,3,5-trichlorobenzV	20.75	180	98460	9.938	ug/L		95
81)	1,2,4-trichlorobenzV	21.44	180	84405	10.278	ug/L		95
82)	hexachlorobutadieneV	21.56	225	36587	9.600	ug/L		95
83)	naphthaleneV	21.76	128	175373	10.401	ug/L		99
84)	1,2,3-trichlorobenzV	22.05	180	71686	10.170	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\SEP12\SEPT0612\SA090621.D Vial: 21
Acq On : 6 Sep 2012 10:41 pm Operator: BAM
Sample : LCSDA090612VNH521 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 11:54 2012 Quant Results File: 5LID0806.RES

Method : W:\1\METHODS\2012\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Mon Aug 20 11:14:26 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

1,4 Dioxane 8260B SIM

Initial Calibration

IS/SS ID= V- 39134

Standard ID= V- 39135

LCS/LCSD and/or MS/MSD Standard ID= V- 39136

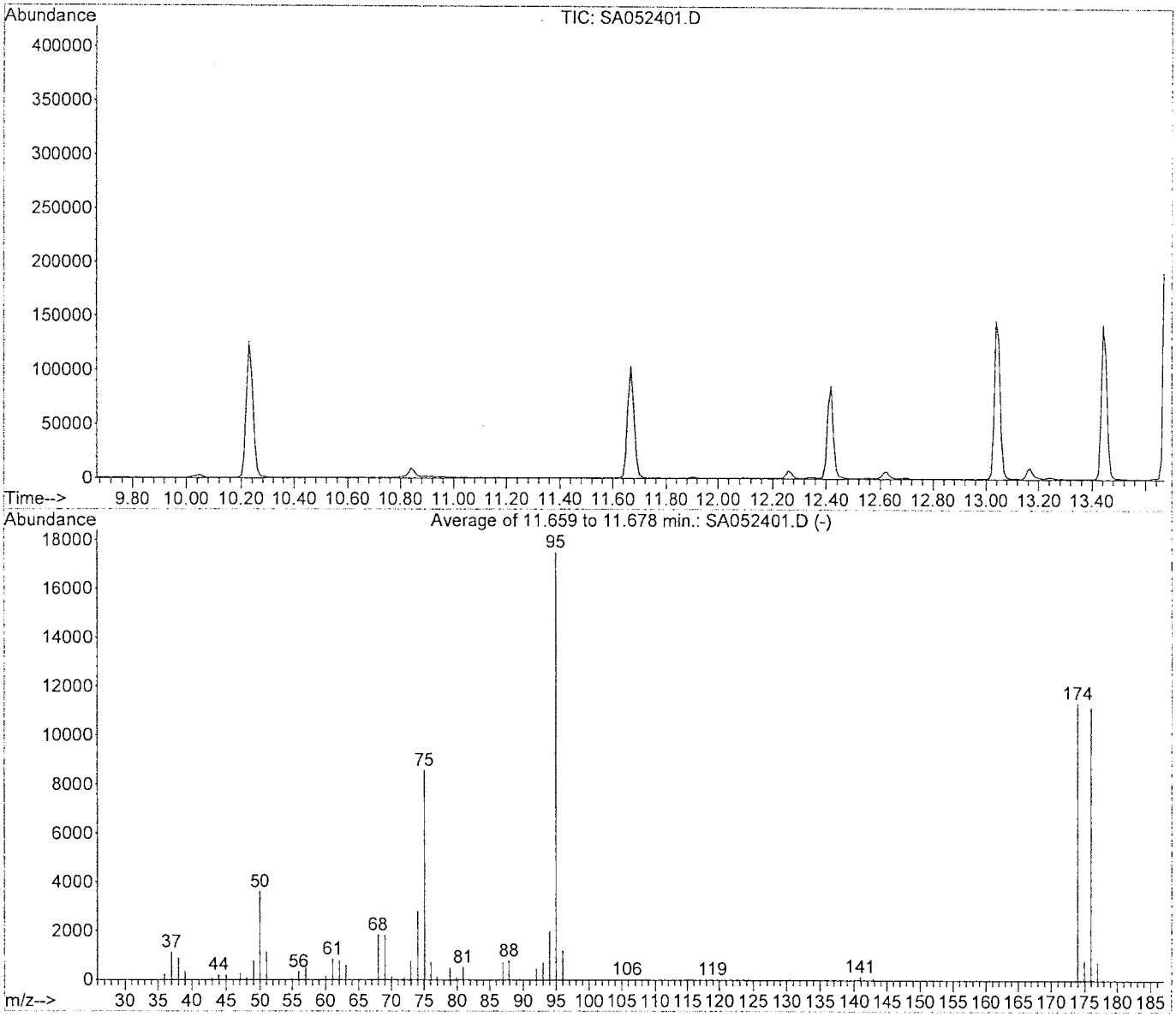
Analyst: VG, GB

Date: 5/23/12

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SA052301	BFB		✓		X1	VOC LSI			
2	SA052302	STD5		✓			VOC SIM	25IM0524		
3	43	LCS5		✓			VOC		STD5 – test run. Do not use	
4	4	LCSD5		✓			VOC		STD2	
5	5	Blank		✓			VOC		STD1	
6	6	STD0.5		✓			VOC			
7	7	STD0.25		✓			VOC		NEW ICAL	
8	8	STD10		✓			VOC			
9	9	20		✓			VOC		25IM0524	
10	10	Blank		✓			VOC			
11	11	STD50		✓			VOC			
12	12	Blank		✓			VOC			
13	13	BFB		✓			VOC MSI			
14	14	STD5		✓			VOC SIM			
15	15	LCS5		✓			VOC			
16	16	LCSD5		✓			VOC			
17	17	Blank		✓			VOC			
18	18	1104134.01		✓			VOC			
19	19	02		✓			VOC			
20	20	03		✓			VOC			
21	21	04		✓			VOC			
22	22	05		✓			VOC			
23	23	06		✓			VOC			
24	24	1104220.01		✓			VOC			
25	25	02		✓			VOC		] Stopped here	
26	26	03		✓			VOC			
27	27	04		✓		↓	VOC			
28							VOC			
29							VOC			
30							VOC			
31							VOC			
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Samples removed from autosampler, order verified by VG 5/25/12

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052401.D Vial: 1
Acq On : 24 May 2012 12:31 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



Spectrum Information: Average of 11.659 to 11.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	3614	PASS
75	95	30	60	49.0	8582	PASS
95	95	100	100	100.0	17506	PASS
96	95	5	9	6.8	1195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	11352	PASS
175	174	5	9	7.1	804	PASS
176	174	95	101	98.5	11180	PASS
177	176	5	9	6.5	732	PASS

Response Factor Report VOAMS2

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration

Calibration Files
1 =SA052405.D 20 =SA052409.D 10 =SA052408.D
50 =SA052411.D .25 =SA052407.D 5 =SA052402.D

		Compound	1	20	10	50	.25	5	Avg	%RSD
1)	I	Fluorobenzene IS	----------ISTD----------							
2)		1,4-dioxaneV	0.026	0.019	0.021	0.016	0.024	0.021	0.021#	13.59
3)	S	SS Toluene-d8_M	0.988	0.990	0.983	0.987	0.984	0.983	0.999	3.86
4)	S	SS 4-BFB_MS	0.446	0.452	0.448	0.453	0.444	0.447	0.448	0.69

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:49:41 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

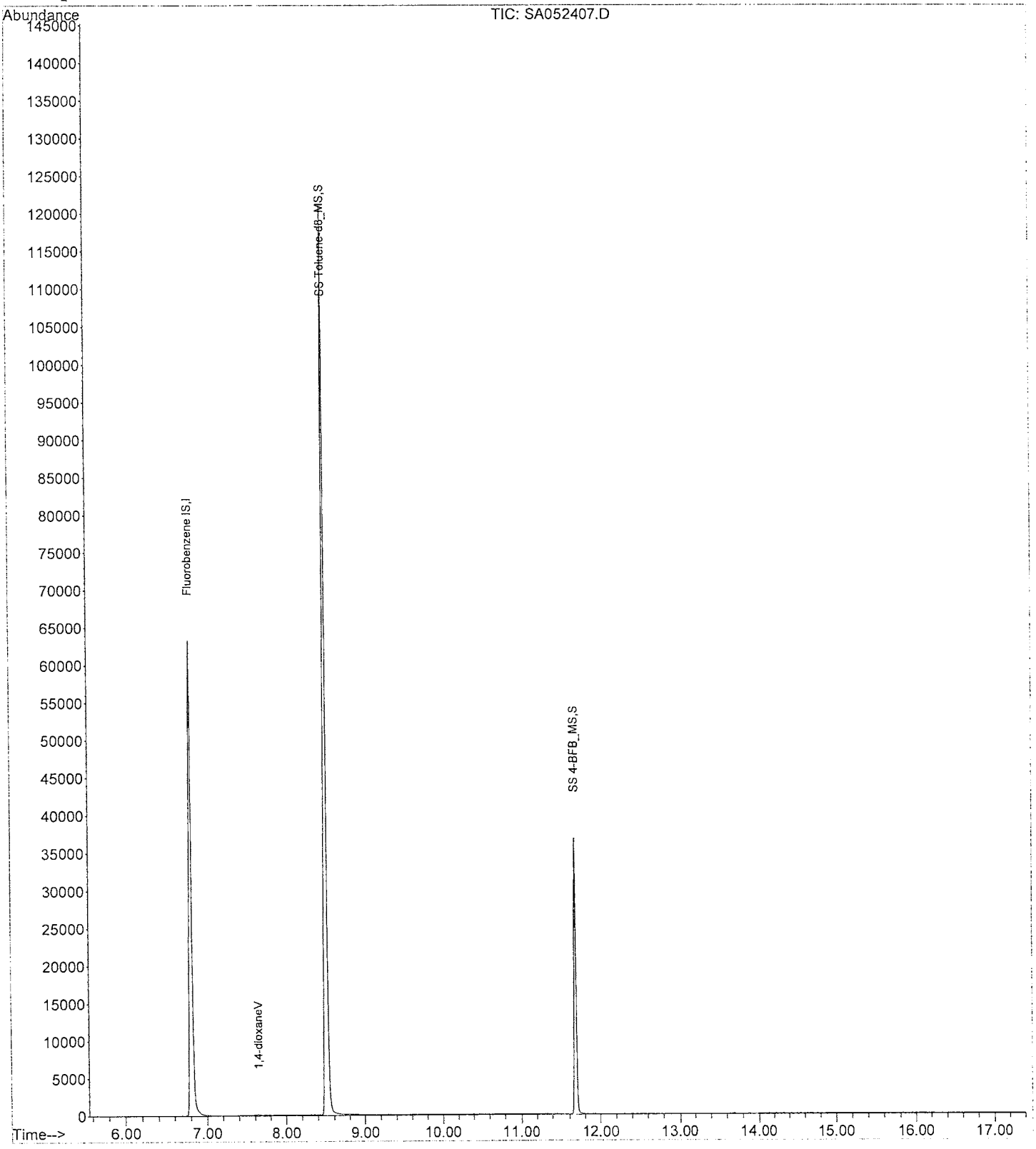
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140323	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138140	9.73	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.34%			
4) SS 4-BFB_MS	11.68	95	62363	9.95	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	84	0.263	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052407.D Vial: 7
Acq On : 24 May 2012 5:25 pm Operator: VG
Sample : STD0.25 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:56:01 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:33:08 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

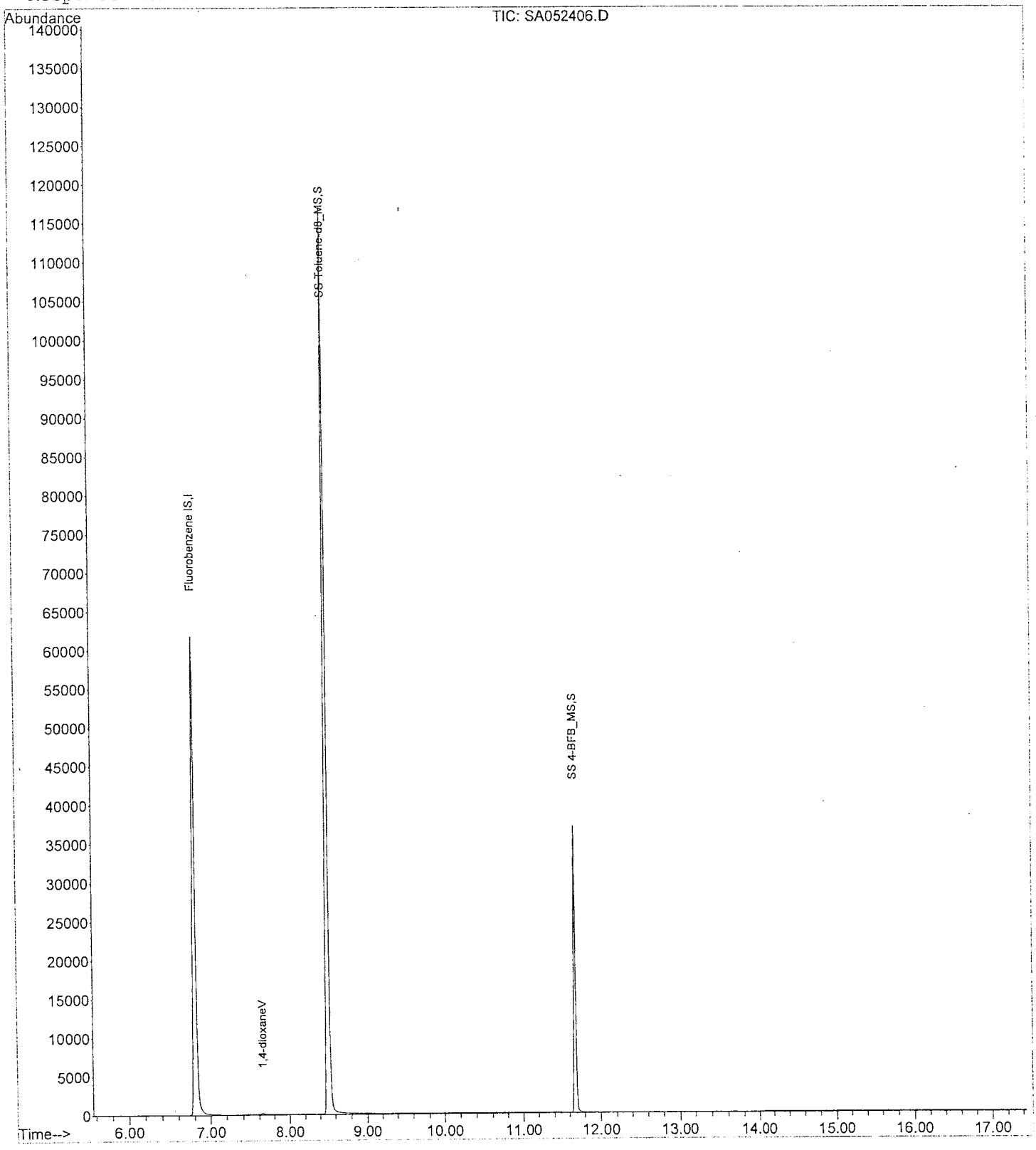
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	141577	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	154861	11.12	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.18%			
4) SS 4-BFB_MS	11.68	95	63244	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	148	0.448	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052406.D Vial: 6
Acq On : 24 May 2012 4:36 pm Operator: VG
Sample : STD0.5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:55 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:05:39 2012 Quant Results File: 2SIM0524.RES

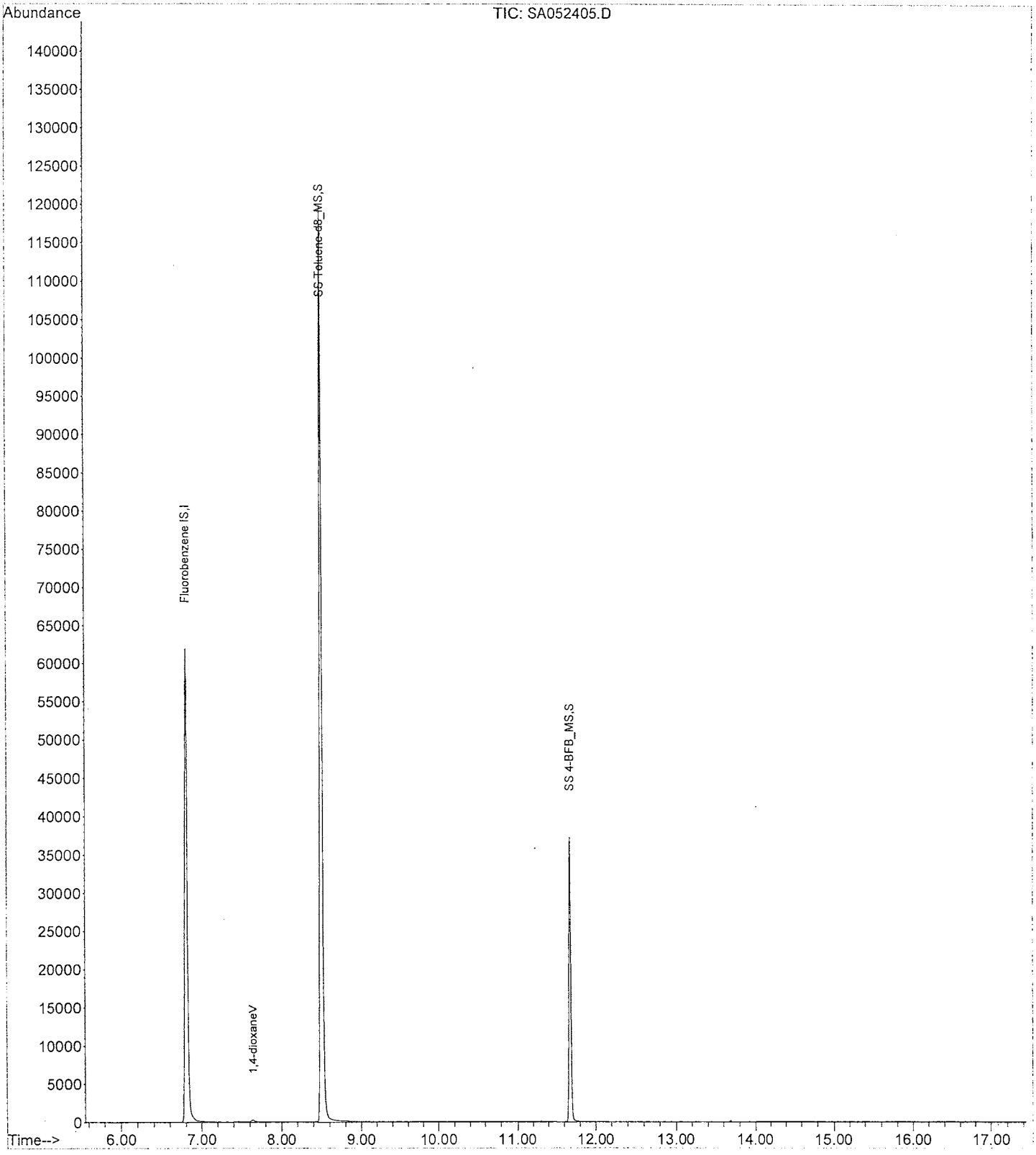
Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:38:10 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	140851	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	139222	10.07	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.71%			
4) SS 4-BFB_MS	11.68	95	62886	10.00	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.98%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	360m	1.149	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052405.D Vial: 5
Acq On : 24 May 2012 3:47 pm Operator: VG
Sample : STD1 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 16:32 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36:43 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

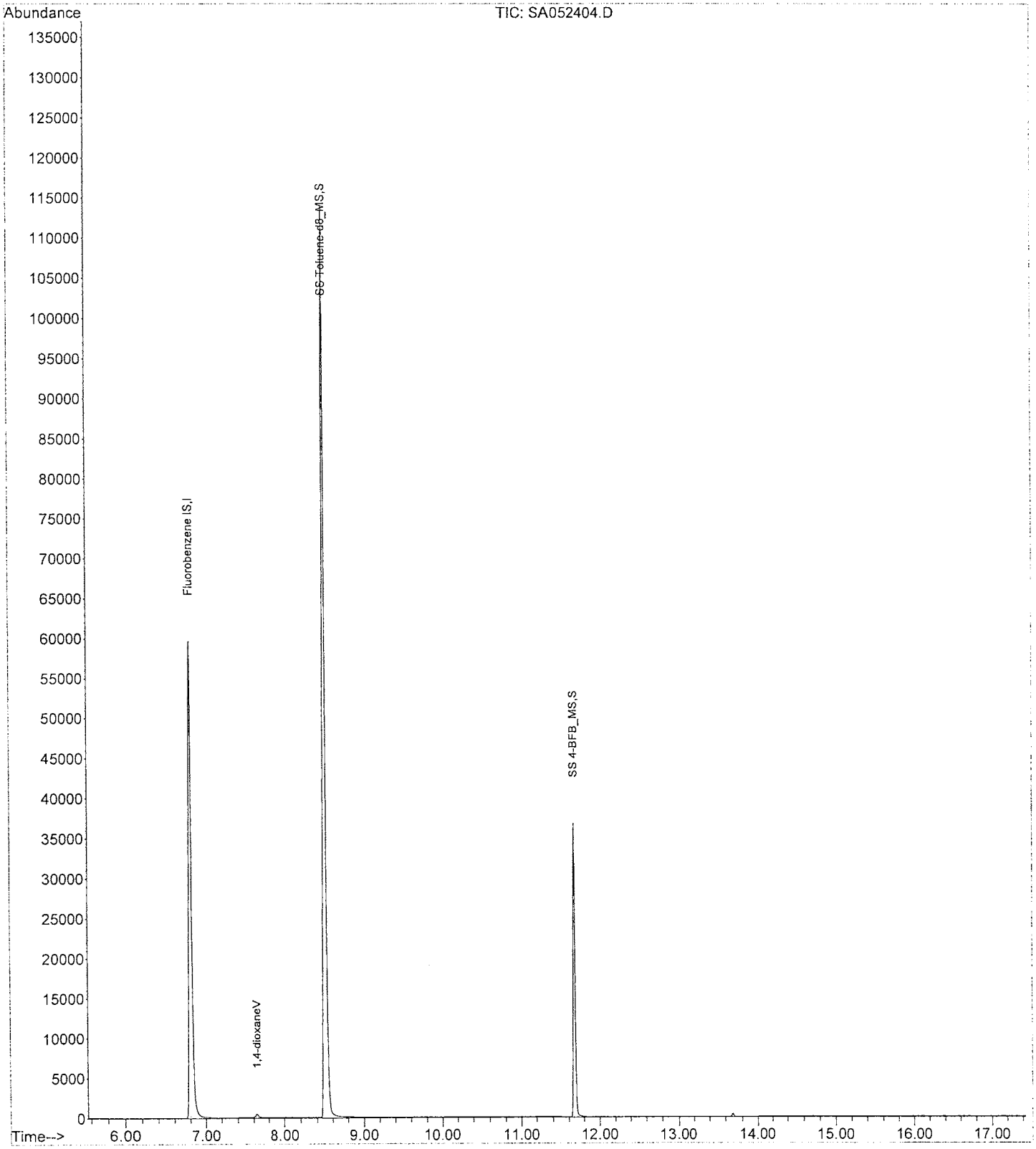
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	143436	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140522	10.35	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.54%			
4) SS 4-BFB_MS	11.67	95	63956	11.53	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.28%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	663	0.976	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052404.D Vial: 4
Acq On : 24 May 2012 2:59 pm Operator: VG
Sample : STD2 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:36 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30:25 2012 Quant Results File: 2SIM0510.RES

Quant Method : V:\1\METHODS\2012\2SIM0510.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 10 16:25:45 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

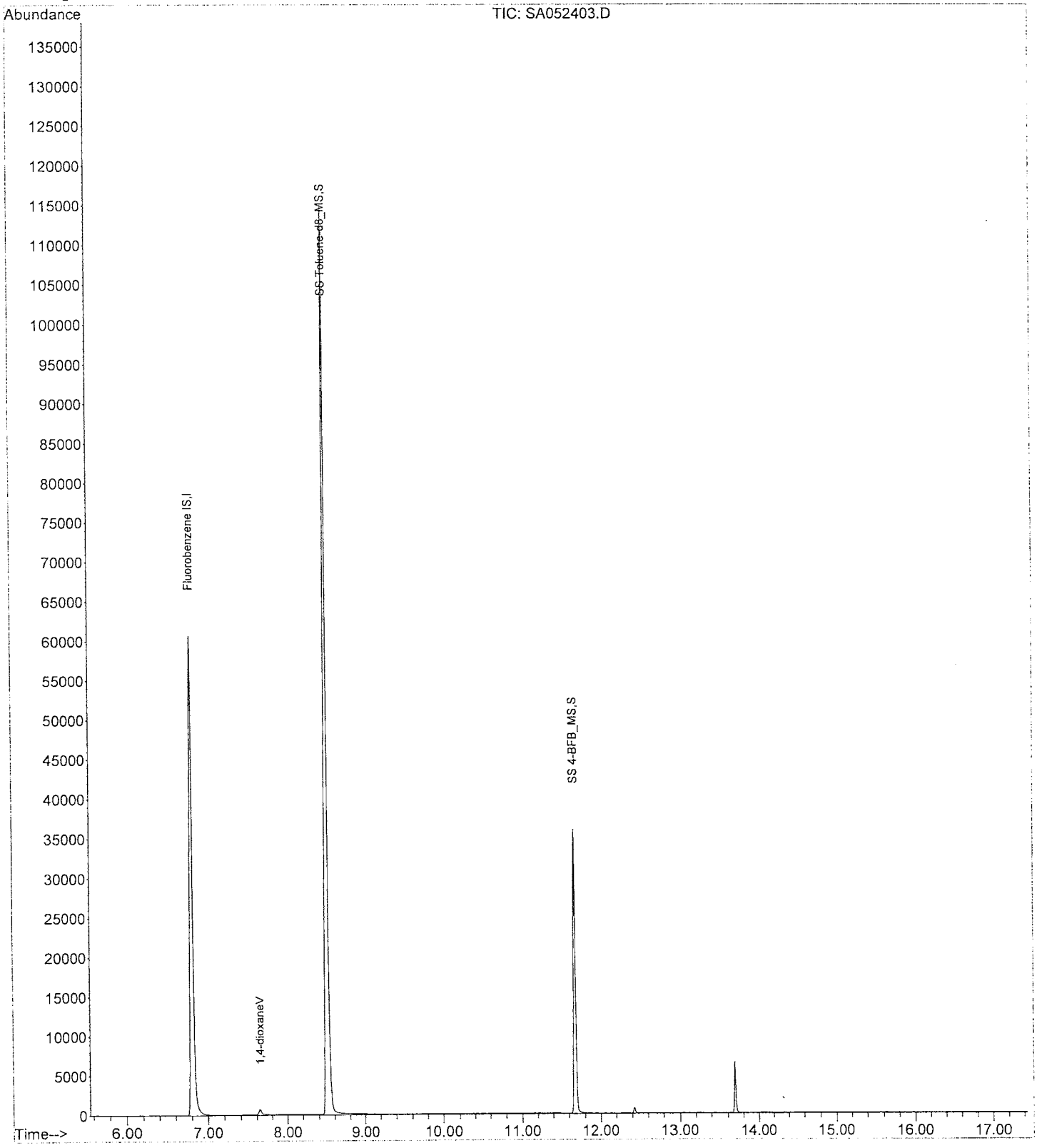
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	142091	10.000	ug/L	-0.03
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	140152	10.42	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.24%			
4) SS 4-BFB_MS	11.67	95	63694	11.59	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.89%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.65	88	965	1.434	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052403.D Vial: 3
Acq On : 24 May 2012 2:10 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:30 2012 Quant Results File: 2SIM0510.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:05 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

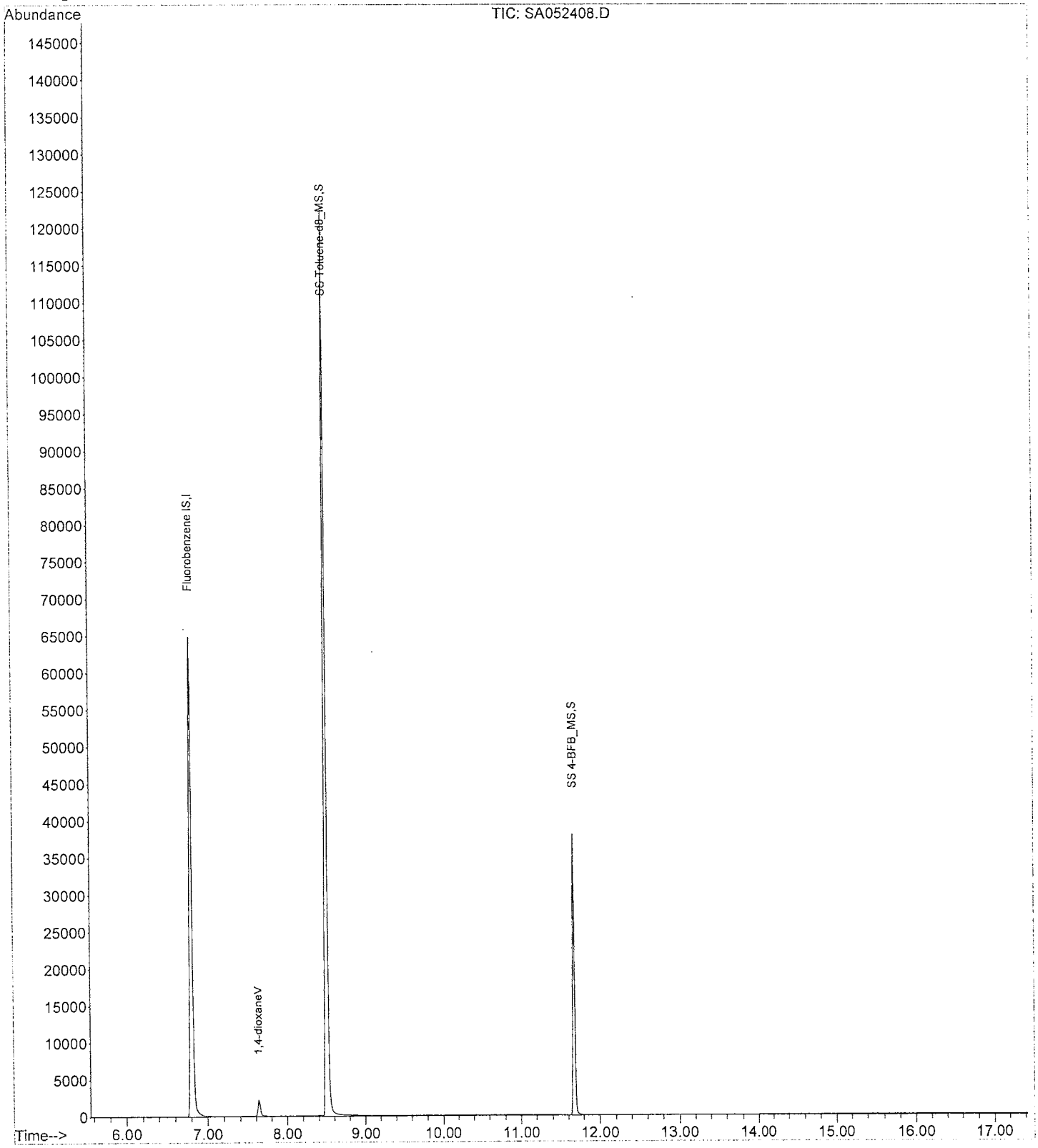
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	141523	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.51	98	139101	9.72	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.19%			
4) SS 4-BFB_MS	11.67	95	63437	10.04	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	2925	9.090	ug/L #	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052408.D Vial: 8
Acq On : 24 May 2012 6:14 pm Operator: VG
Sample : STD10 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:49 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:15 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

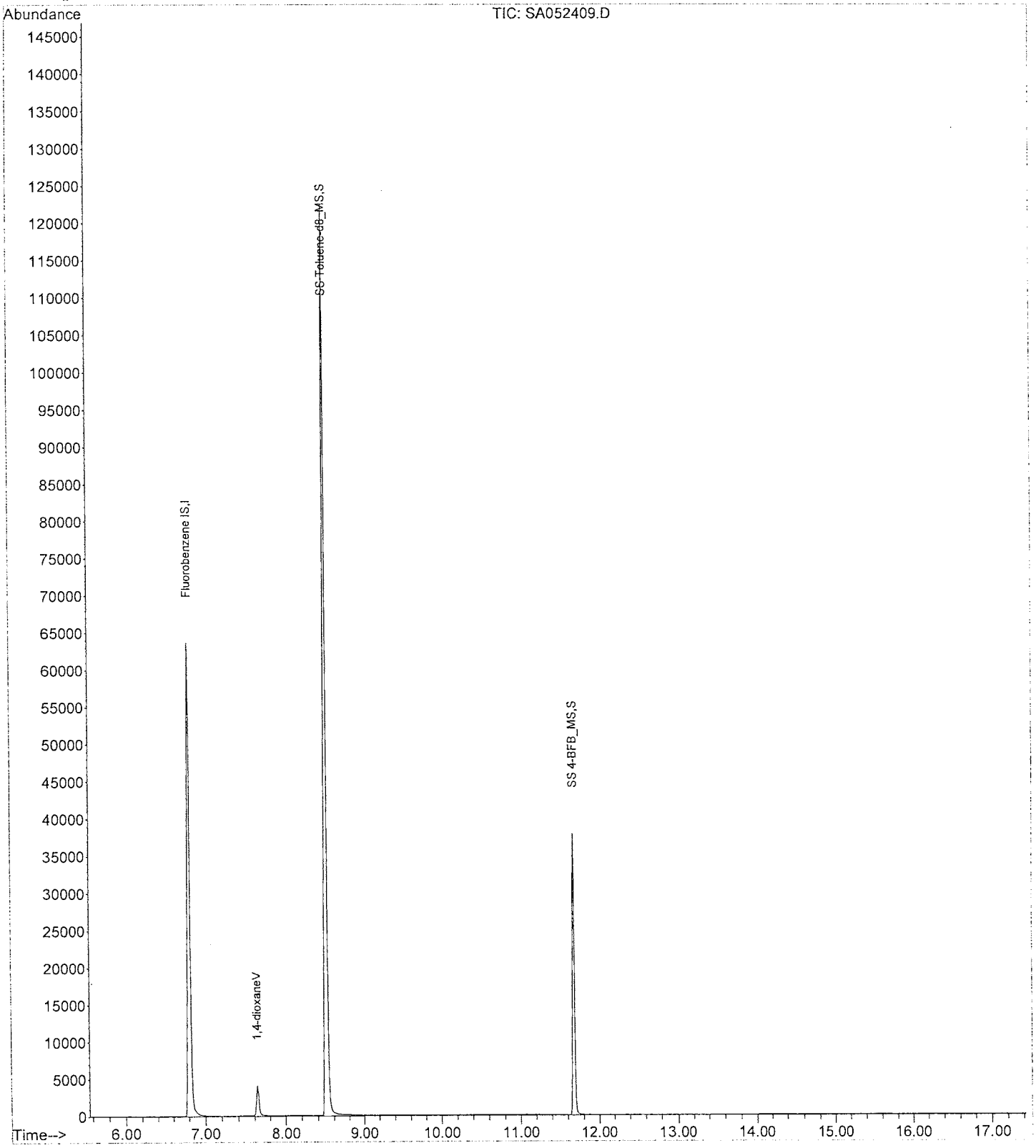
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.81	96	139806	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138348	9.78	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.85%			
4) SS 4-BFB_MS	11.67	95	63221	10.13	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.26%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	5262	16.554	ug/L #	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA052409.D 2SIM0524.M Fri Aug 31 10:59:46 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052409.D Vial: 9
Acq On : 24 May 2012 7:03 pm Operator: VG
Sample : STD20 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:50:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 16:56:48 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

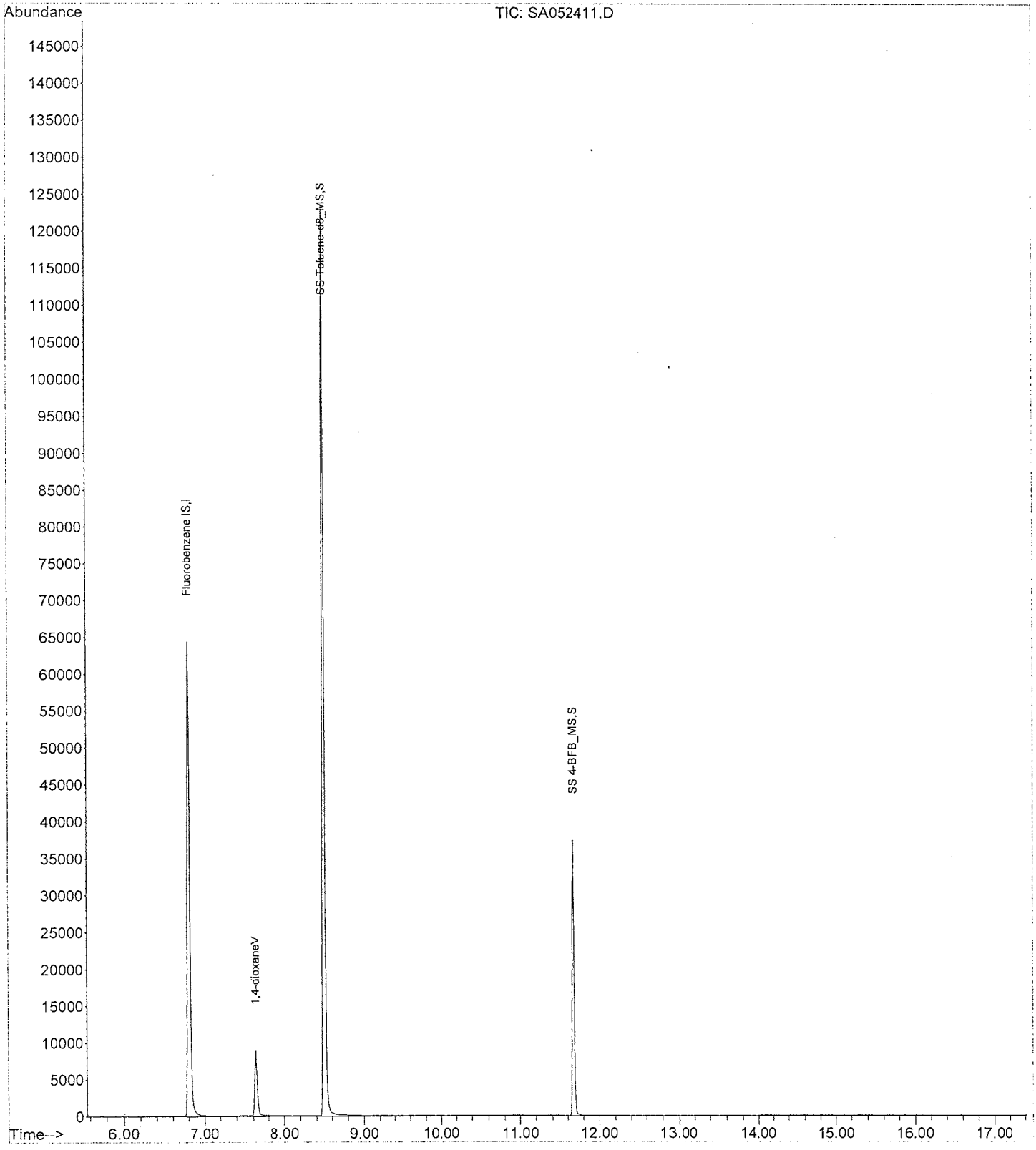
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140527	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138737	9.76	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.62%			
4) SS 4-BFB_MS	11.67	95	63685	10.15	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.48%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	11538	36.111	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052411.D Vial: 11
Acq On : 24 May 2012 8:41 pm Operator: VG
Sample : STD50 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 07:53:55 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

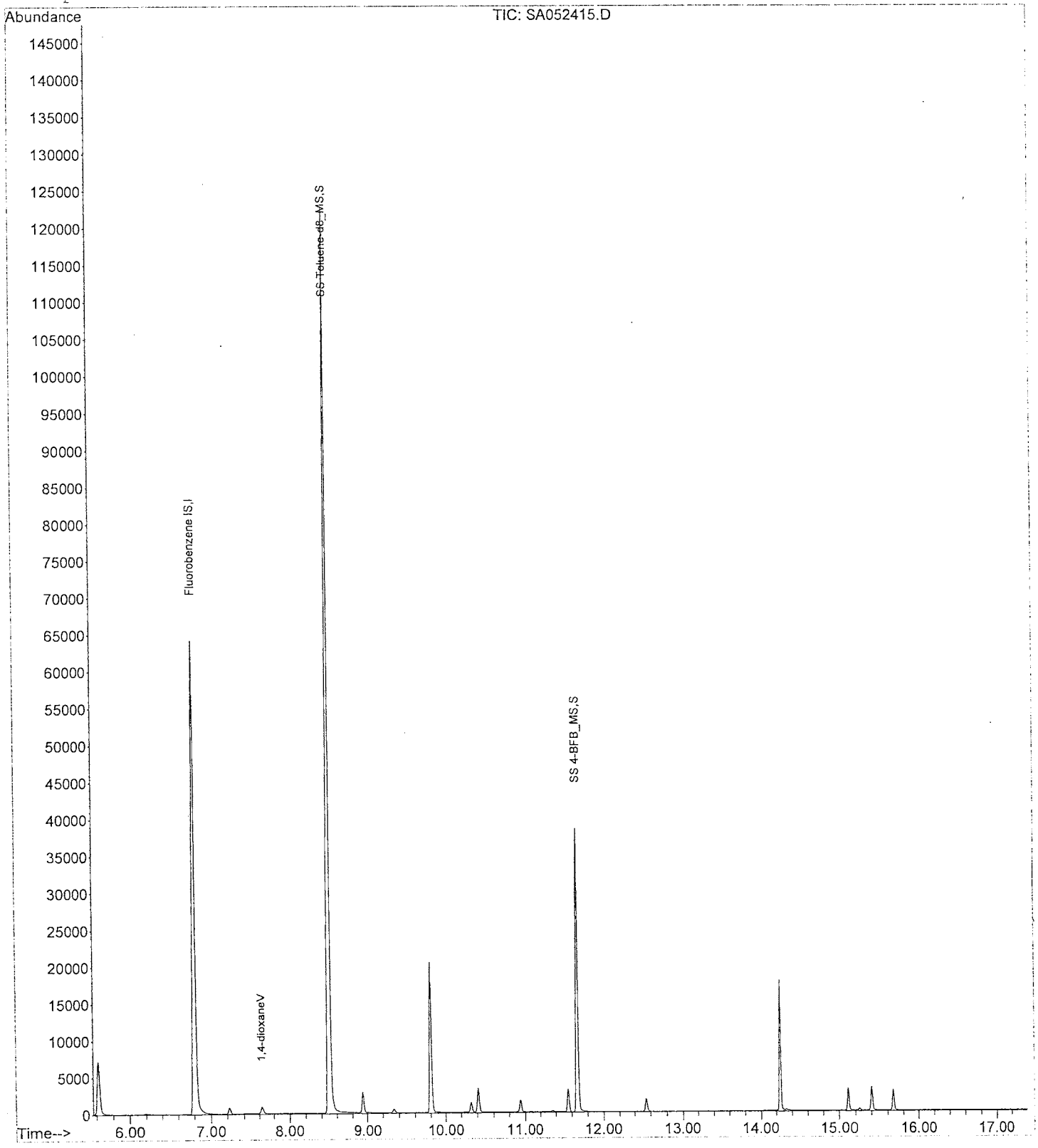
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	138992	10.000	ug/L	0.00
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138030	9.94	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.44%			
4) SS 4-BFB_MS	11.67	95	63375	10.18	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.77%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1130	3.808	ug/L	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052415.D Vial: 15
Acq On : 24 May 2012 11:58 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 25 7:53 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

1,4-Dioxane 8260B SIM

Sample and QC Data

VOAMS2 Analysis Run Log

IS/SS ID= V- 3974 (refilled IS/SS)
Standard ID= V- 3933
LCS/LCSD and/or MS/MSD Standard ID= V-3936

Analyst: VAP

Date: 9/6/~~200~~ 2012

ALS	Data File	Sample Name	RR	AQ	SO	Dilution	Aq Meth	Anal Meth	Comments	A
1	SA090601	blank					VOC MSI			
2	02	BFB					VOC MSI		Autofind BFB	✓
3	03	STD 5					VOC SIM	2SIM0524		✓
4	04	LCS 5					VOC			✓
5	05	LCSd 5					VOC			✓
6	06	Blank					VOC			✓
7	07	113689.11		✓		x10	VOC			
8	08	.15		✓		x1	VOC			
9	09	.12		✓			VOC			
10	10	~~.03~~ .13		✓			VOC			
11	11	.04		✓			VOC			
12	12	.05		✓			VOC			
13	13	.06		✓			VOC			
14	14	.07		✓			VOC			
15	15	.03		✓		x10	VOC			
16	16	STD 0.25					VOC			
17	17	BFB					VOC MSI		Autofind BFB	✓
18	18	STD 5					VOC SIM	2SIM0524		✓
19	19	LCS 5					VOC			✓
20	20	LCSd 5					VOC			✓
21	21	Blank					VOC			✓
22	22	113667.01		✓		x1	VOC			
23	23	.02		✓			VOC			
24	24	.03		✓			VOC			
25	25	STD 0.25					VOC			
26	26	113869.02		✓		x1	VOC			
27	27	.01		✓		x1	VOC			
							VOC			
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9/7/2012 VAP

COPY

Samples removed from autosampler, order verified by VAP 9/10/2012

GC/MS QA-QC Check Report

Tune File : V:\1\DATA\2012\SEP12\SEP0612\SA090602.D
Tune Time : 6 Sep 2012 12:32 pm

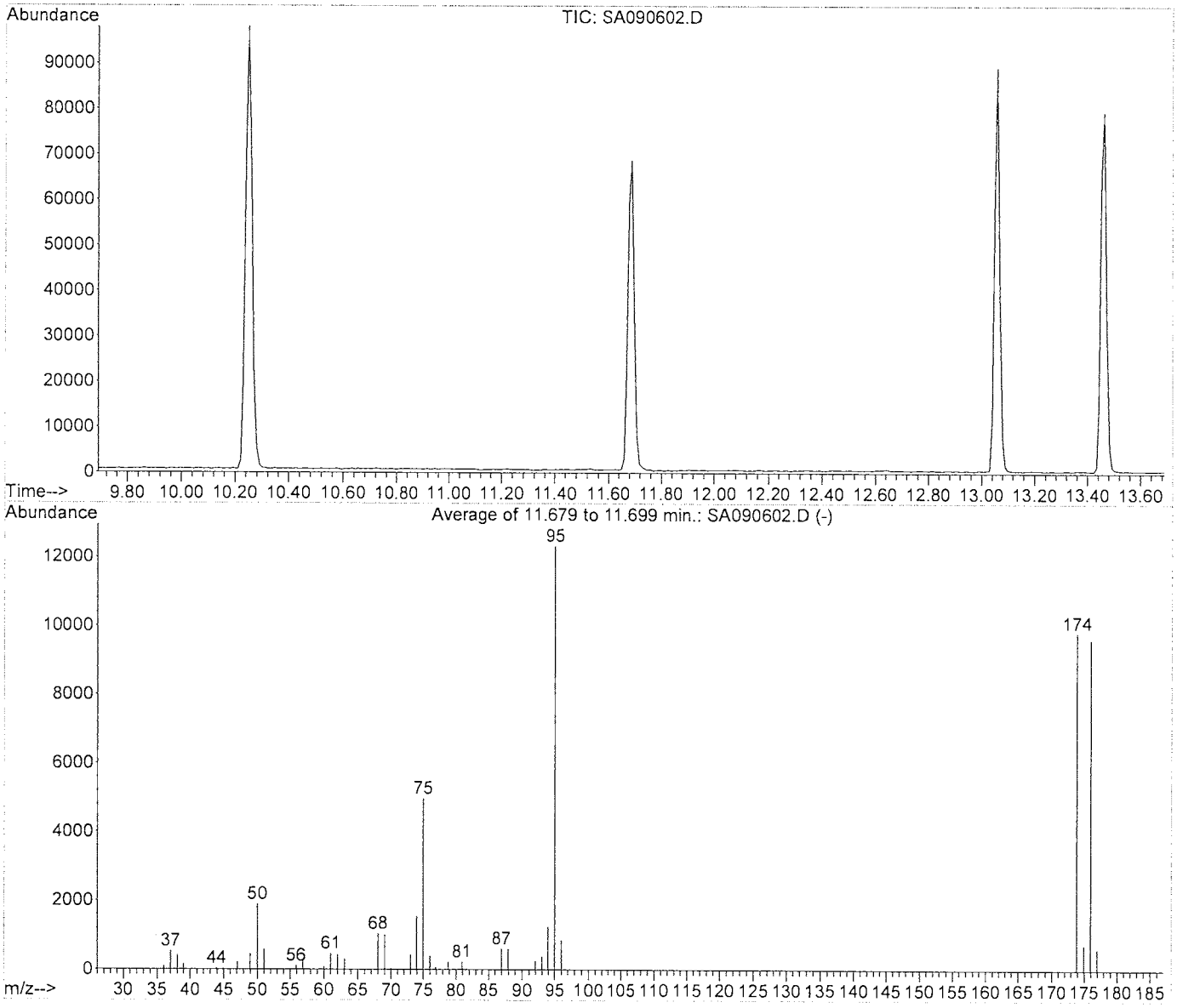
Daily Calibration File : V:\1\DATA\2012\SEP12\SEP0612\SA090603.D

				111465
File	Sample	Surrogate Recovery %		Internal Standard Responses
SA090603.D	STD5	103	89	111465
SA090604.D	LCS5	90	81	124897
SA090605.D	LCSD5	89	78	129024
SA090606.D	BLANK	92	82	122390
SA090607.D	113689.11	93	83	121897
SA090608.D	113689.15	103	82	117578
SA090609.D	113689.12	103	83	116091
SA090610.D	113689.13	104	93	113907
SA090611.D	113689.04	105	85	112186
SA090612.D	113689.05	82	74	125645
SA090613.D	113689.06	87	84	124875
SA090614.D	113689.07	91	83	109564
SA090615.D	113689.03	105	97	113881
SA090616.D	STD 0.25	87	83	115882

t - fails 12hr time check * - fails criteria

Created: Fri Sep 07 08:48:04 2012 VOAMS2

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090602.D Vial: 2
Acq On : 6 Sep 2012 12:32 pm Operator: VG
Sample : BFB Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09



AutoFind: Scans 622, 623, 624; Background Corrected with Scan 617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	1900	PASS
75	95	30	60	40.4	4980	PASS
95	95	100	100	100.0	12336	PASS
96	95	5	9	7.0	862	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.6	9823	PASS
175	174	5	9	7.5	734	PASS
176	174	95	101	97.9	9612	PASS
177	176	5	9	6.5	625	PASS

SA090602.D 2SIM0524.M Fri Sep 07 14:55:35 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	79	0.02
2		1,4-dioxaneV	5.000	4.669	6.6	74	0.03
3	S	SS Toluene-d8_MS	10.000	10.285	-2.9	83	0.02
4	S	SS 4-BFB_MS	10.000	8.880	11.2	70	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA090603.D 2SIM0524.M Fri Sep 07 14:56:52 2012

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 06 13:50:03 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

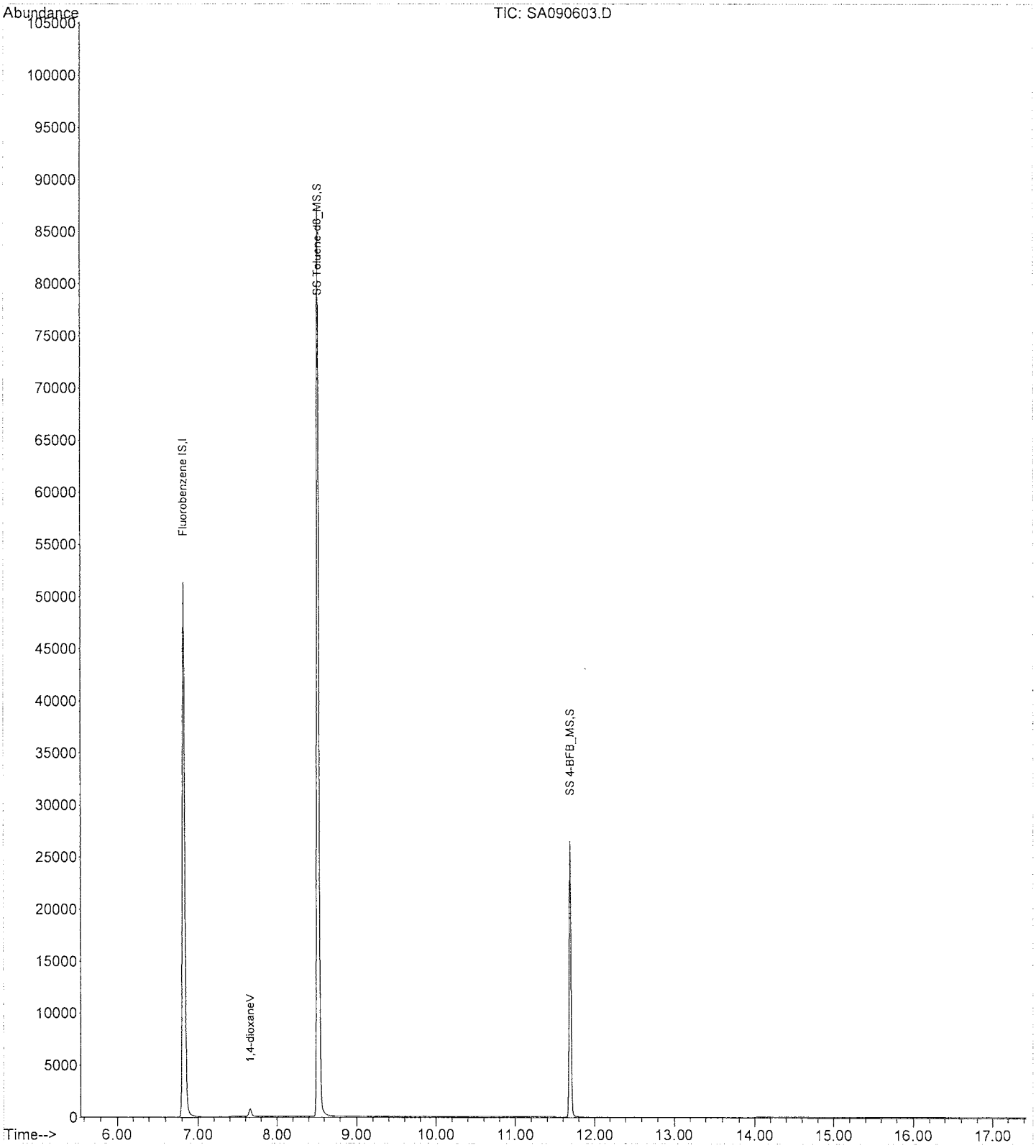
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.824	96	111465	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.521	98	114494	10.285 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.850%		
4) SS 4-BFB_MS	11.693	95	44347	8.880 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.800%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	1111	4.669 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090603.D Vial: 3
Acq On : 6 Sep 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 6 13:50 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090604.D Vial: 4
Acq On : 6 Sep 2012 2:11 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 06 14:45:44 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

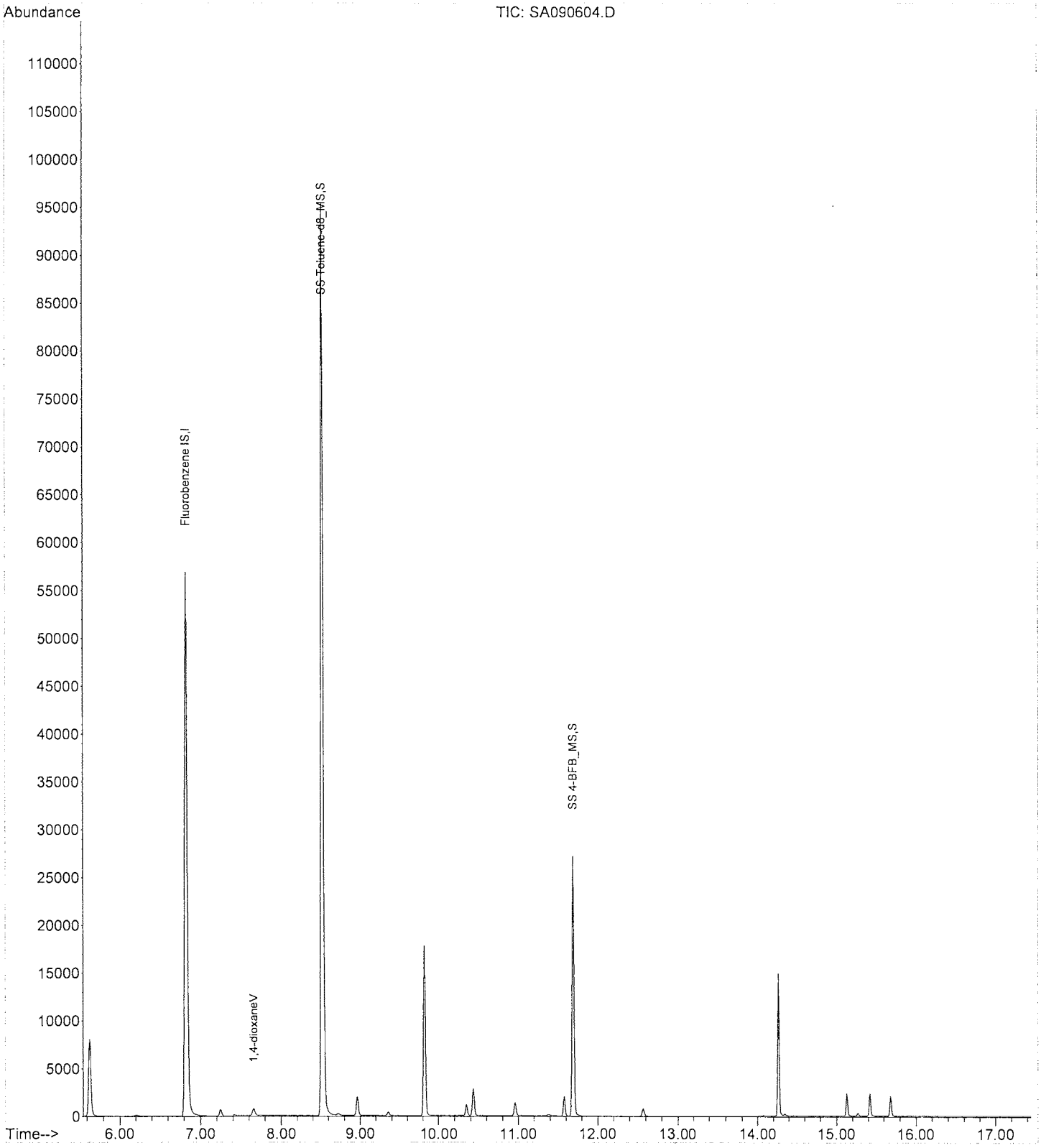
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.826	96	124897	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.525	98	112404	9.012	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.120%			
4) SS 4-BFB_MS	11.693	95	45364	8.106	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.060%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.662	88	1090m	4.088	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090604.D 2SIM0524.M Fri Sep 07 14:53:39 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090604.D Vial: 4
Acq On : 6 Sep 2012 2:11 pm Operator: VG
Sample : LCS5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 6 14:46 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090605.D Vial: 5
Acq On : 6 Sep 2012 3:00 pm Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 06 15:21:00 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

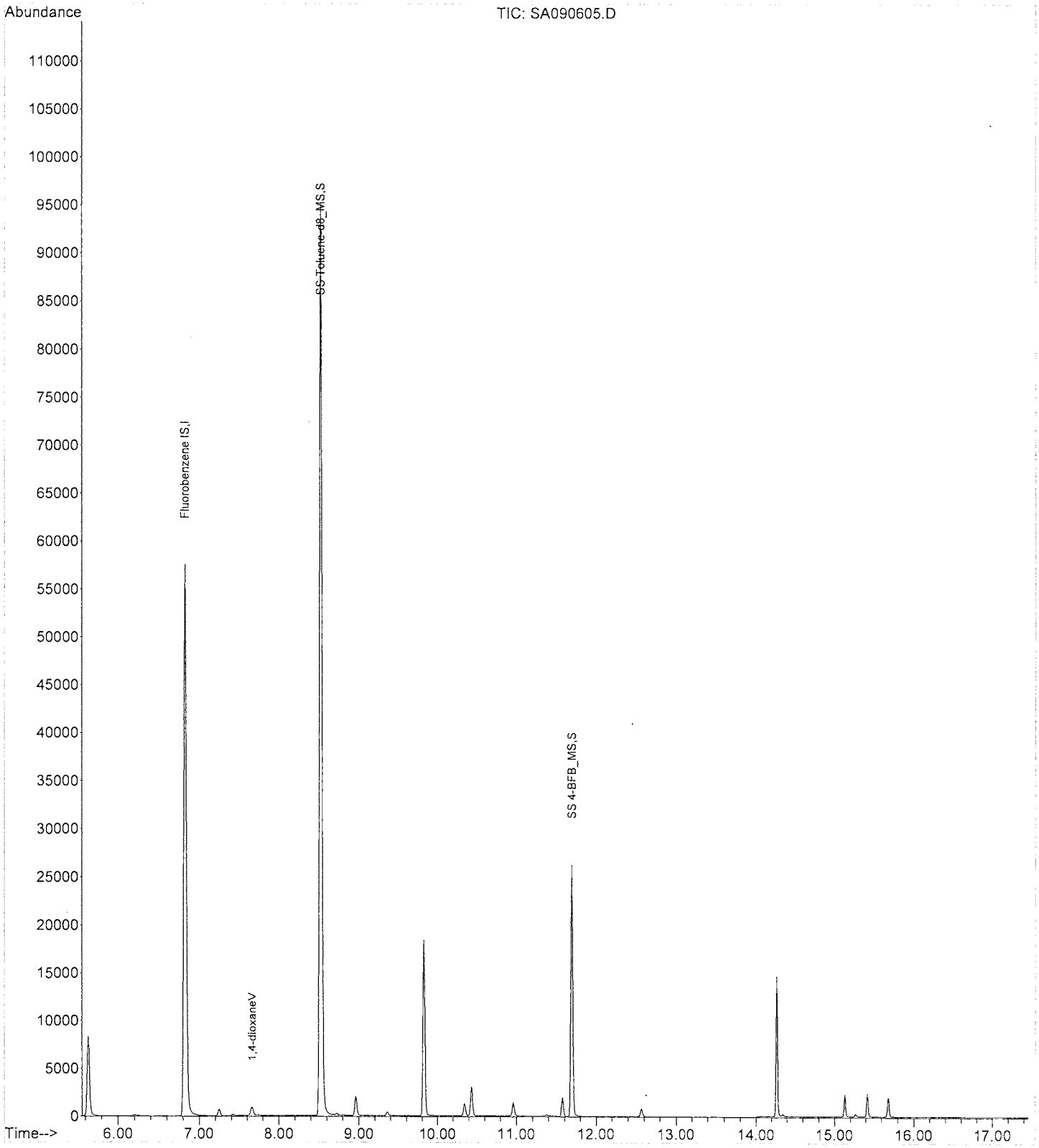
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.825	96	129024	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.525	98	114427	8.880	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.800%			
4) SS 4-BFB_MS	11.692	95	45171	7.814	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 78.140%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.661	88	1275	4.629	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090605.D Vial: 5
Acq On : 6 Sep 2012 3:00 pm Operator: VG
Sample : LCSD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 6 15:21 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090606.D Vial: 6
Acq On : 6 Sep 2012 3:49 pm Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:43:54 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

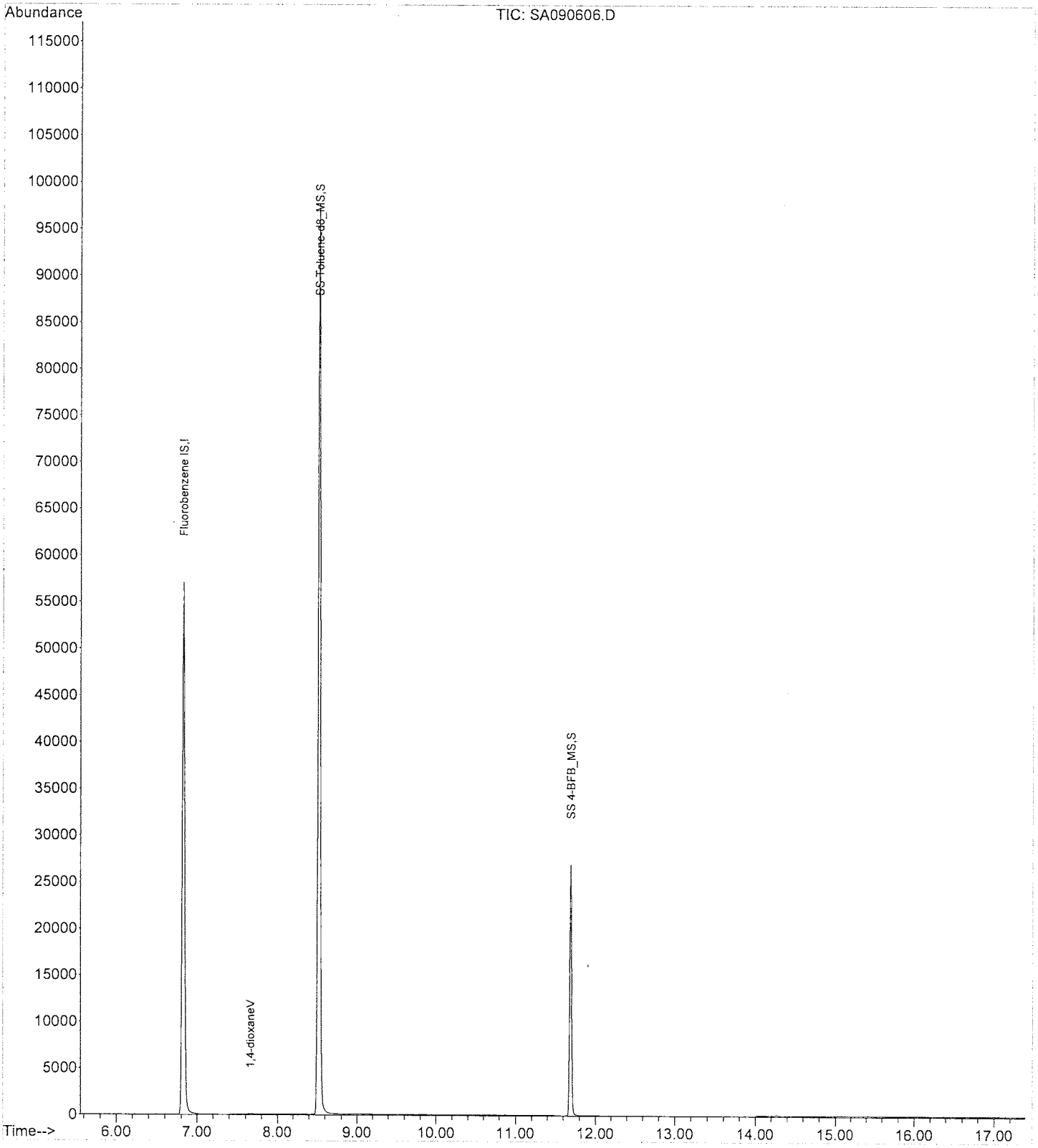
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.824	96	122390	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.525	98	112535	9.207	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.070%			
4) SS 4-BFB_MS	11.692	95	44983	8.203	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.030%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.663	88	21	0.080	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090606.D Vial: 6
Acq On : 6 Sep 2012 3:49 pm Operator: VG
Sample : BLANK Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:43 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090607.D Vial: 7
Acq On : 6 Sep 2012 4:38 pm Operator: VG
Sample : 113689.11 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:36 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.827	96	121897	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.525	98	113264	9.304 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.040%		
4) SS 4-BFB_MS	11.693	95	45216	8.279 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.790%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	2555	9.817 ug/L	99

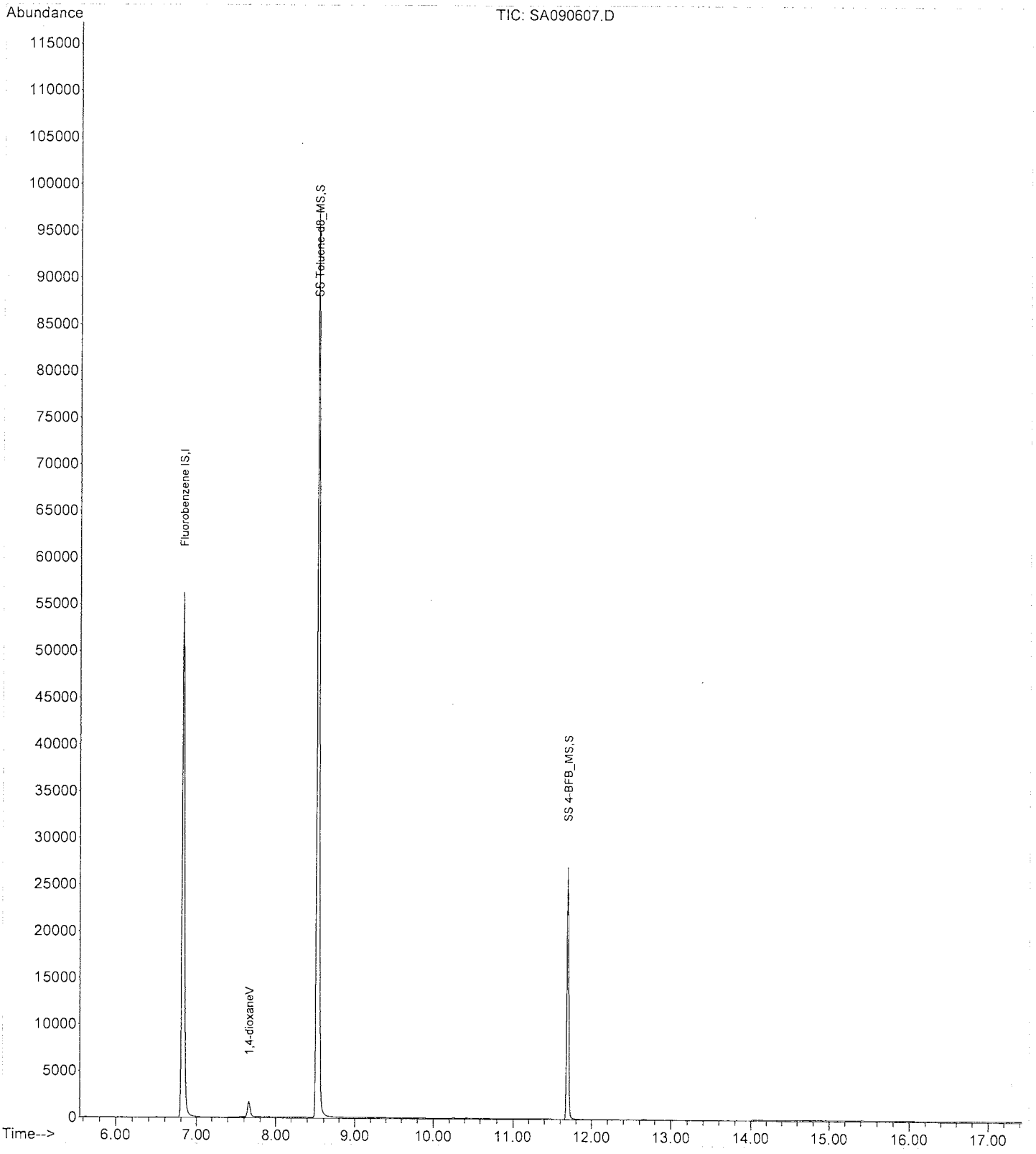
9/7/12
VSP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090607.D 2SIM0524.M Fri Sep 07 08:44:36 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090607.D Vial: 7
Acq On : 6 Sep 2012 4:38 pm Operator: VG
Sample : 113689.11 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090608.D Vial: 8
Acq On : 6 Sep 2012 5:27 pm Operator: VG
Sample : 113689.15 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:39 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.824	96	117578	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.525	98	121194	10.321 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.210%		
4) SS 4-BFB_MS	11.693	95	43290	8.217 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.170%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	31	0.123 ug/L #	65

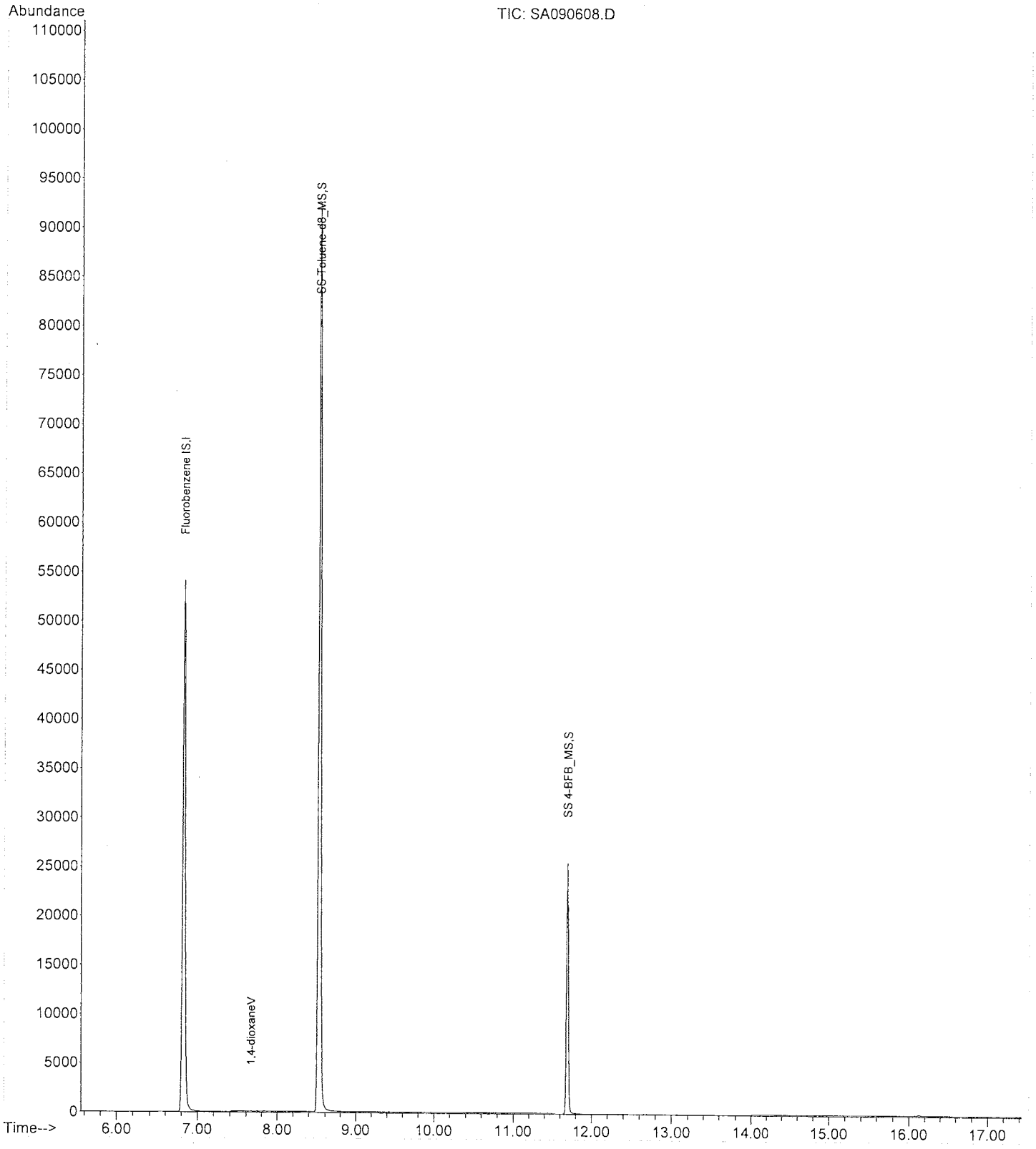
9/7/2012

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090608.D 2SIM0524.M Fri Sep 07 08:44:39 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090608.D Vial: 8
Acq On : 6 Sep 2012 5:27 pm Operator: VG
Sample : 113689.15 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090609.D Vial: 9
Acq On : 6 Sep 2012 6:16 pm Operator: VG
Sample : 113689.12 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:42 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.827	96	116091	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.526	98	118949	10.260 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.600%		
4) SS 4-BFB_MS	11.693	95	43428	8.349 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 83.490%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	100	0.403 ug/L	88

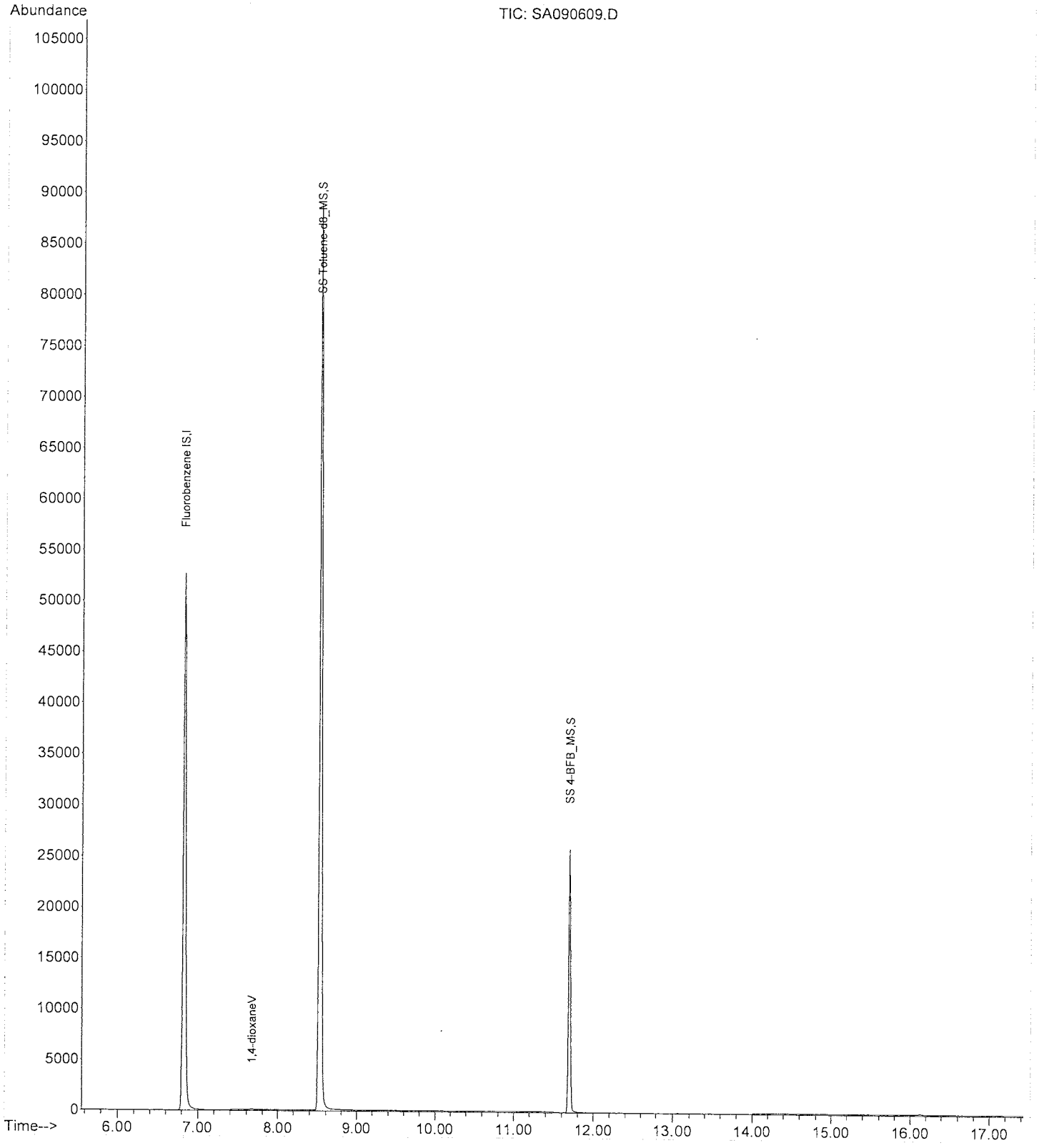
9/7/12
208

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090609.D 2SIM0524.M Fri Sep 07 08:44:42 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090609.D Vial: 9
Acq On : 6 Sep 2012 6:16 pm Operator: VG
Sample : 113689.12 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090610.D Vial: 10
Acq On : 6 Sep 2012 7:05 pm Operator: VG
Sample : 113689.13 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:45 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.825	96	113907	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.521	98	118735	10.438 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.380%		
4) SS 4-BFB_MS	11.692	95	47279	9.264 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.640%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	17	0.070 ug/L	77

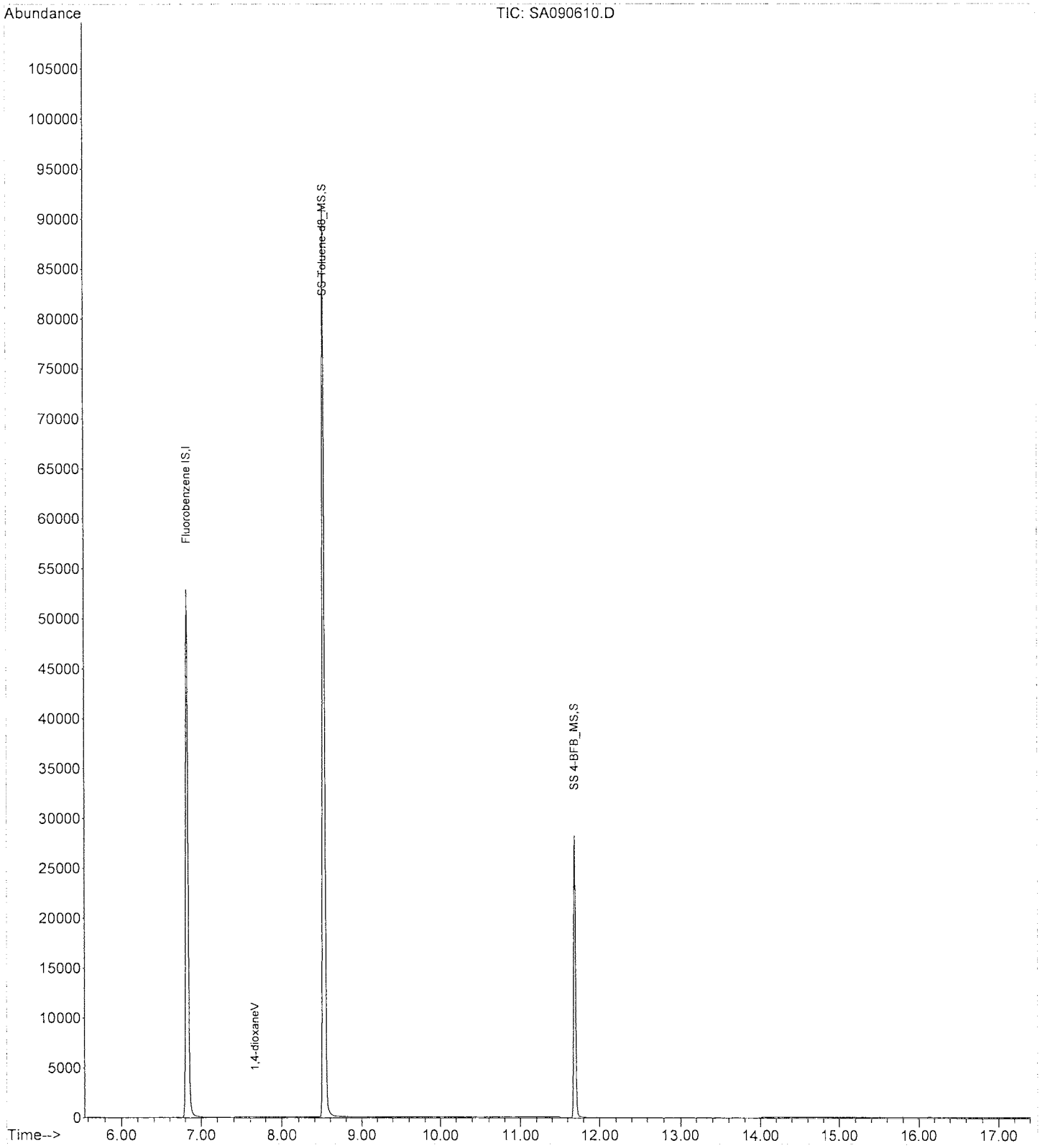
9/7/12
VOP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090610.D 2SIM0524.M Fri Sep 07 08:44:45 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090610.D Vial: 10
Acq On : 6 Sep 2012 7:05 pm Operator: VG
Sample : 113689.13 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090611.D Vial: 11
Acq On : 6 Sep 2012 7:54 pm Operator: VG
Sample : 113689.04 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:48 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.825	96	112186	10.000	ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.525	98	117400	10.479	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.790%			
4) SS 4-BFB_MS	11.693	95	42687	8.492	ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.920%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.662	88	20	0.084	ug/L	93

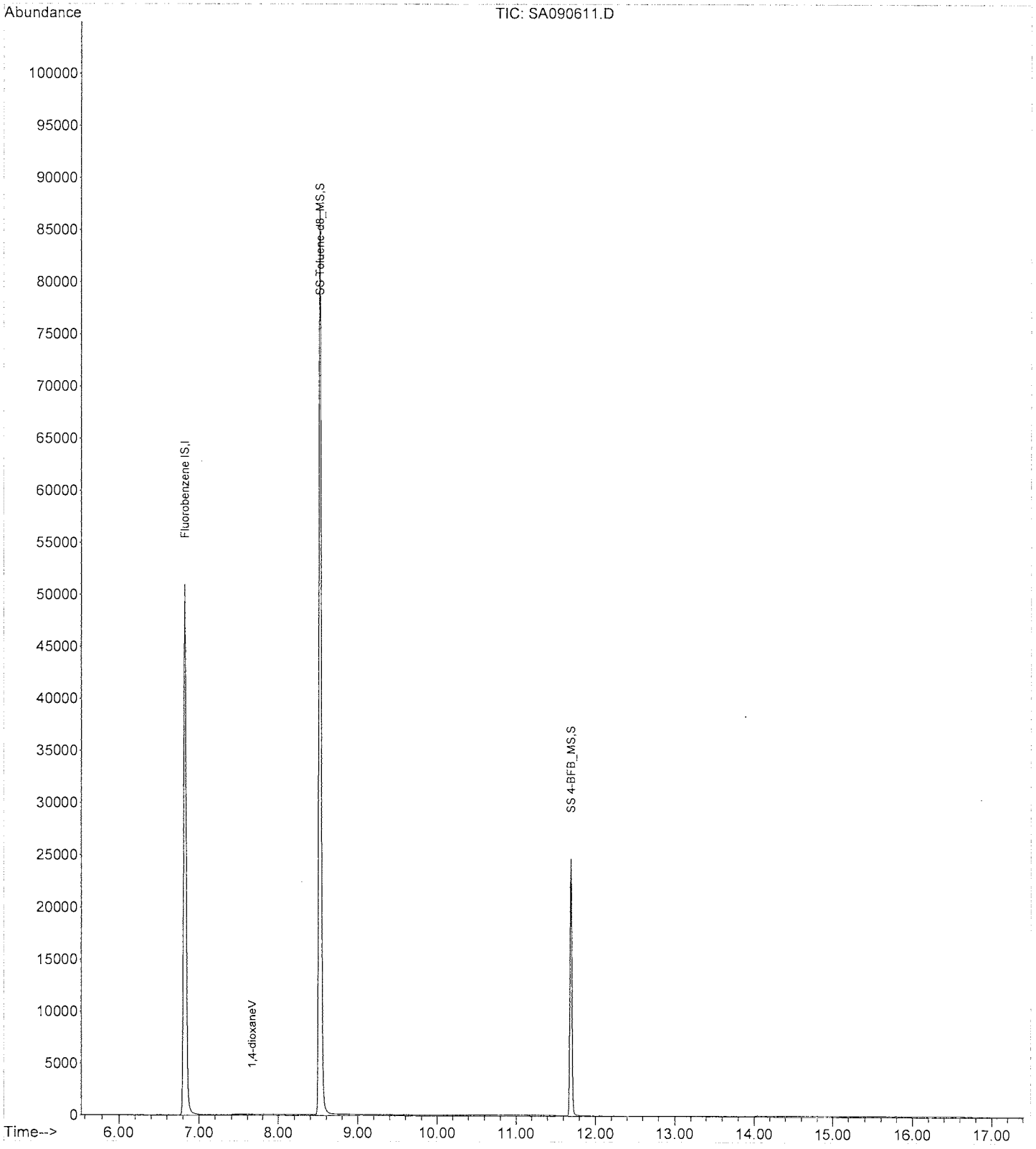
9/7/12
bp

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090611.D 2SIM0524.M Fri Sep 07 08:44:48 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090611.D Vial: 11
Acq On : 6 Sep 2012 7:54 pm Operator: VG
Sample : 113689.04 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090612.D Vial: 12
Acq On : 6 Sep 2012 8:43 pm Operator: VG
Sample : 113689.05 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:51 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.824	96	125645	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.521	98	102806	8.193 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.930%		
4) SS 4-BFB_MS	11.691	95	41792	7.424 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 74.240%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.662	88	19	0.071 ug/L	93

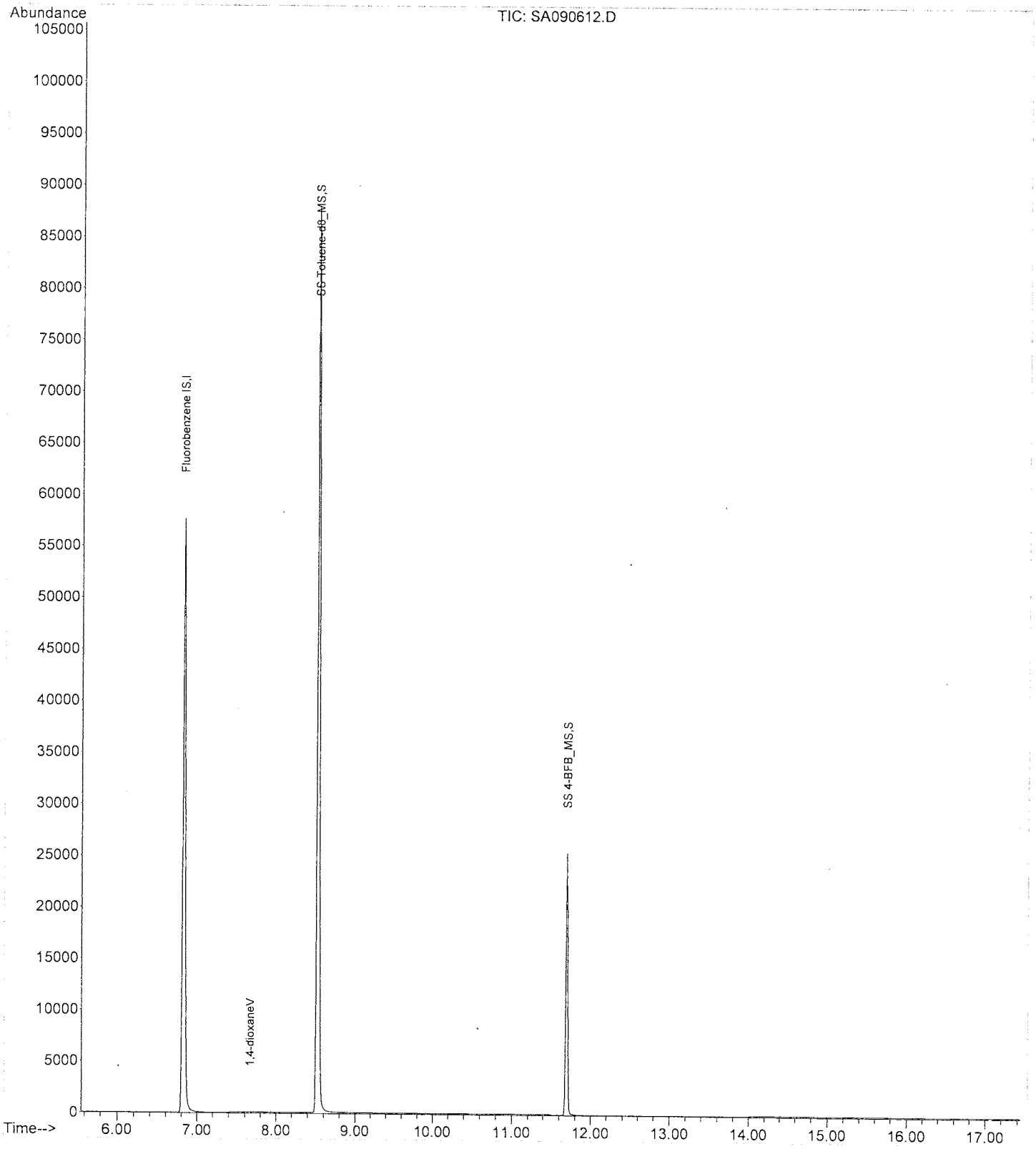
9/7/12
VOP

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090612.D 2SIM0524.M Fri Sep 07 08:44:51 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090612.D Vial: 12
Acq On : 6 Sep 2012 8:43 pm Operator: VG
Sample : 113689.05 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090613.D Vial: 13
Acq On : 6 Sep 2012 9:32 pm Operator: VG
Sample : 113689.06 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:54 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.823	96	124875	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.521	98	108624	8.710 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.100%		
4) SS 4-BFB_MS	11.693	95	46787	8.362 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 83.620%		
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.661	88	137	0.514 ug/L	95

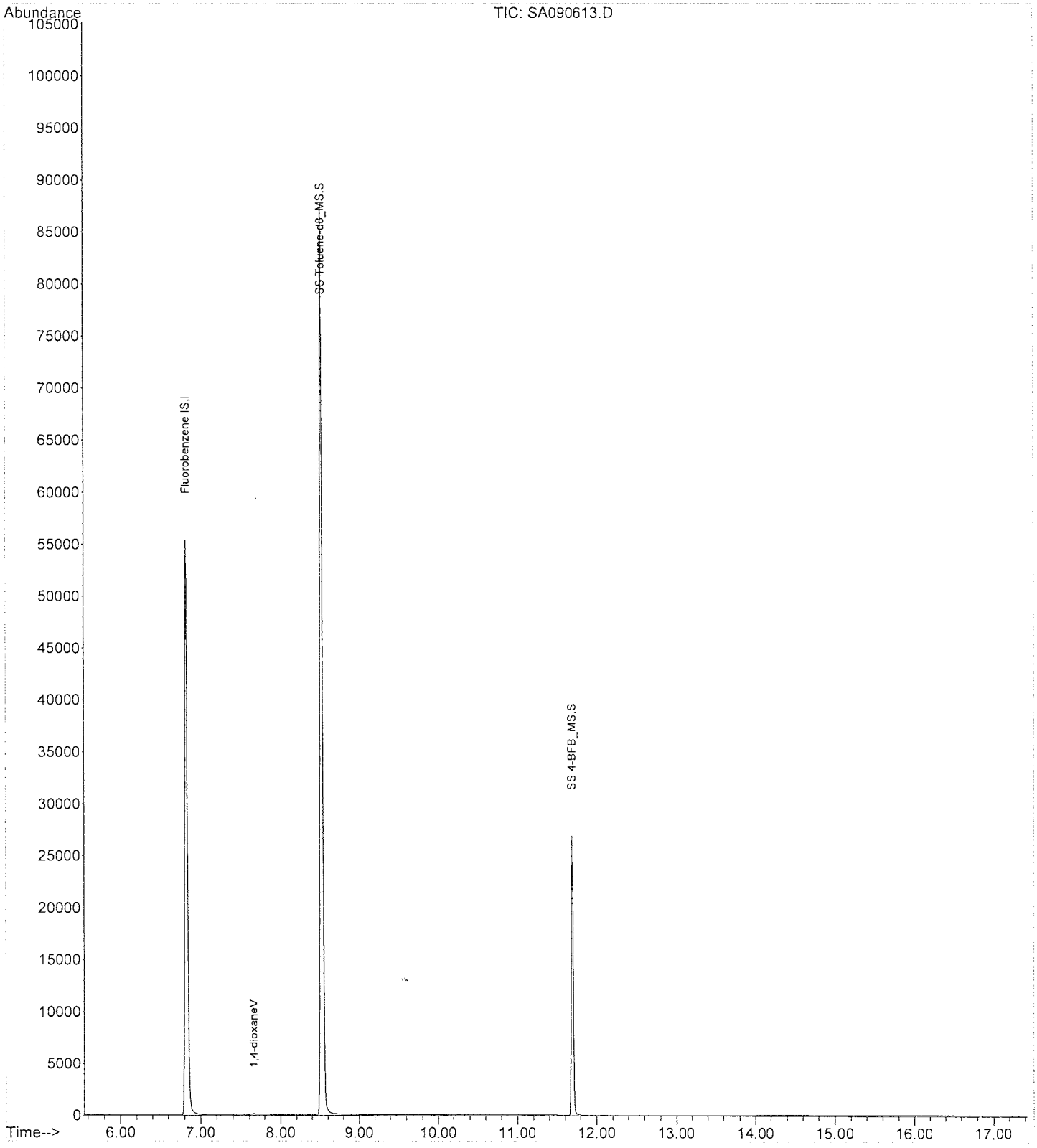
9/7/12
BF

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090613.D 2SIM0524.M Fri Sep 07 08:44:54 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090613.D Vial: 13
Acq On : 6 Sep 2012 9:32 pm Operator: VG
Sample : 113689.06 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 10:21 pm Operator: VG
Sample : 113689.07 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:44:57 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS	6.824	96	109564	10.000 ug/L	0.02
System Monitoring Compounds					
3) SS Toluene-d8_MS	8.521	98	99594	9.102 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery	= 91.020%	
4) SS 4-BFB_MS	11.690	95	40780	8.307 ug/L	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery	= 83.070%	
Target Compounds					Qvalue
2) 1,4-dioxaneV	7.661	88	235	~~1.005 ug~~ 0.93 /L	96

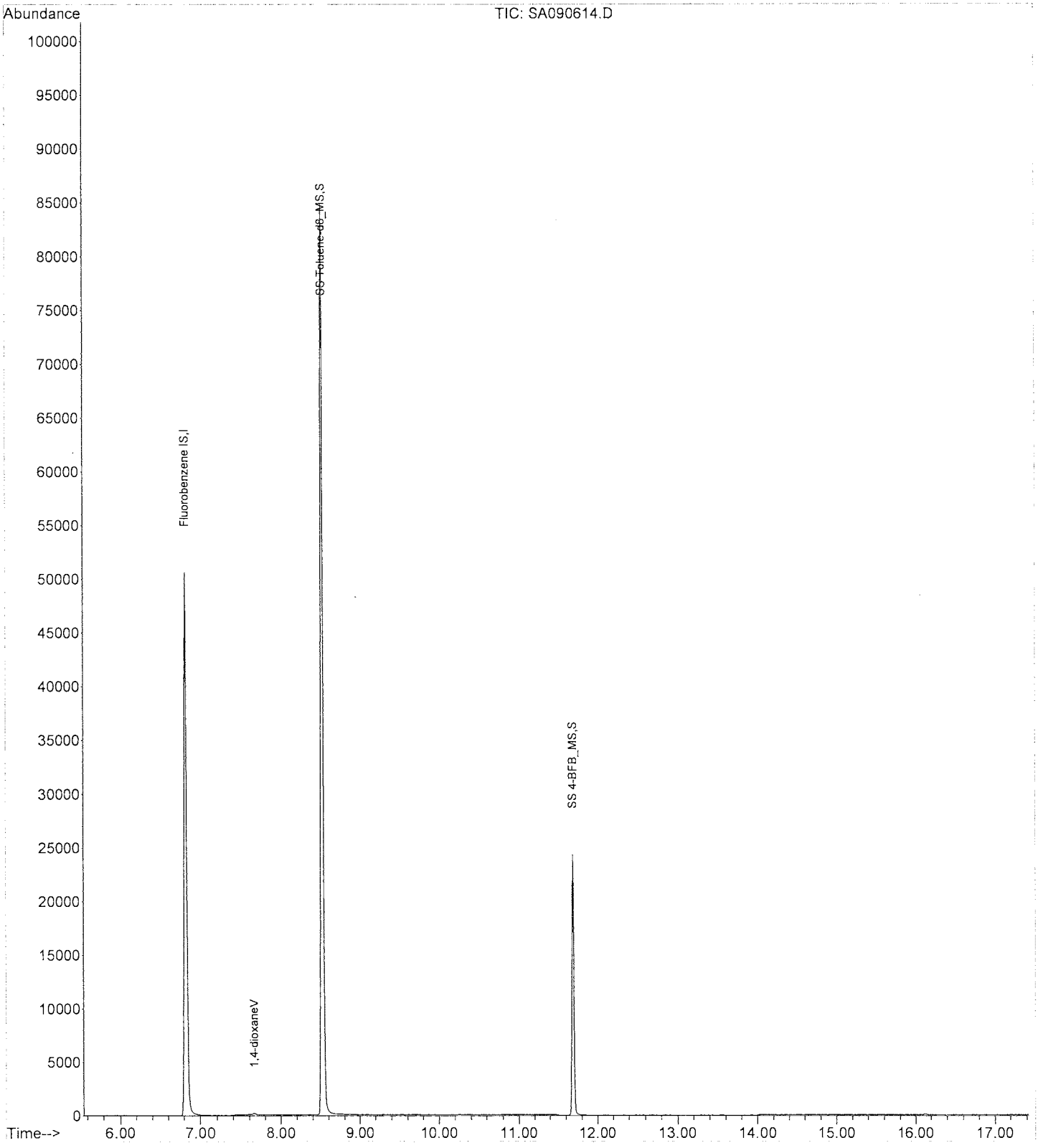
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090614.D 2SIM0524.M Fri Sep 07 08:44:57 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 10:21 pm Operator: VG
Sample : 113689.07 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

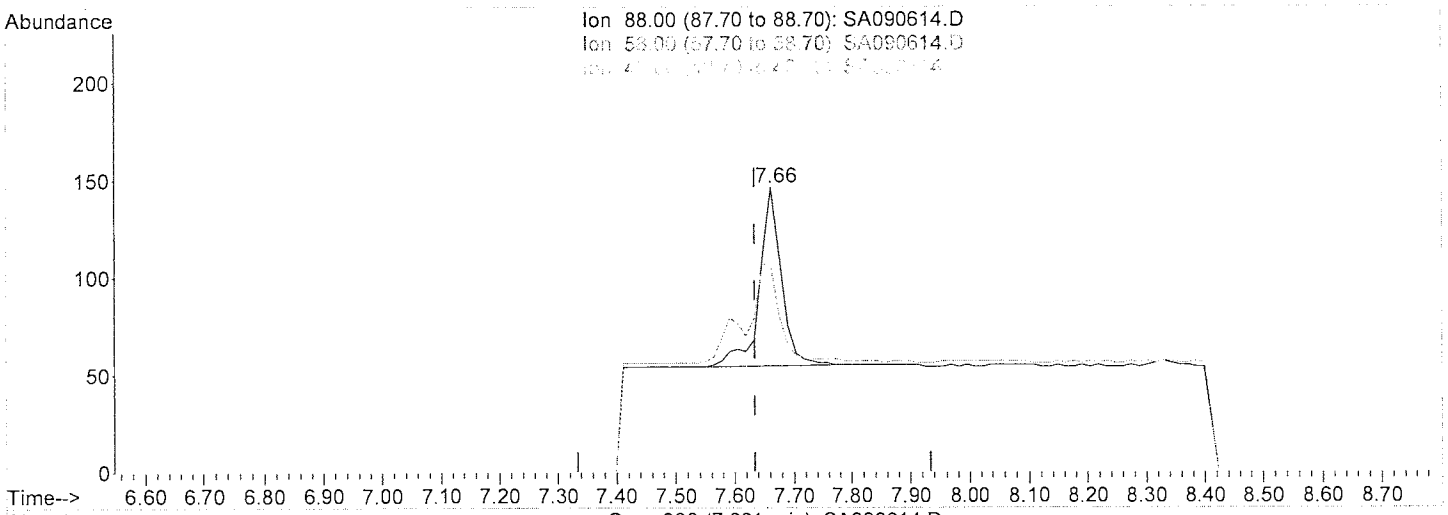
Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration

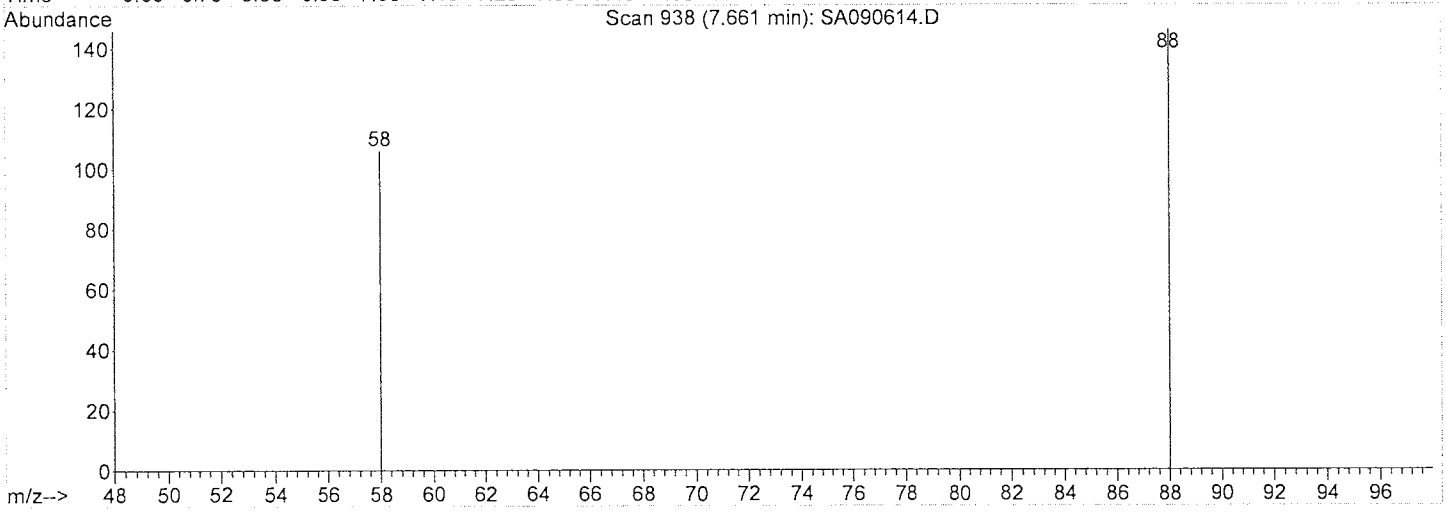


Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 10:21 pm Operator: VG
Sample : 113689.07 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 14:45 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090614.D

(2) 1,4-dioxaneV

7.66min (+0.027) 1.00ug/L

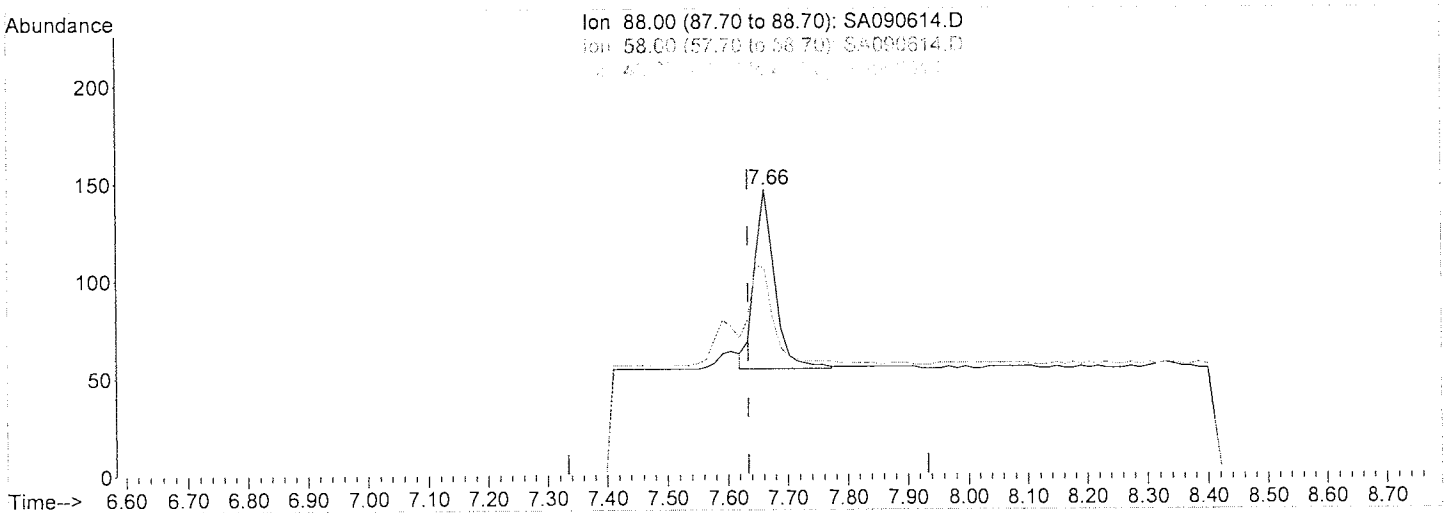
response 235

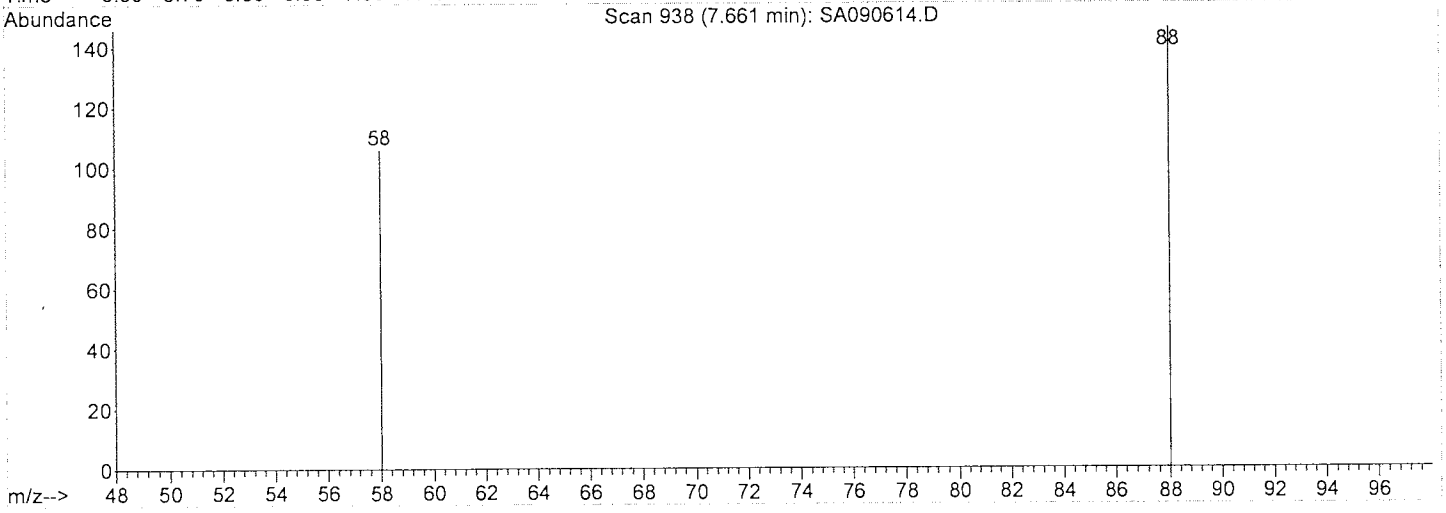
Ion	Exp%	Act%
88.00	100	100
58.00	50.60	53.26
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090614.D Vial: 14
Acq On : 6 Sep 2012 10:21 pm Operator: VG
Sample : 113689.07 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 14:46 2012 Quant Results File: temp.res

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration





TIC: SA090614.D

(2) 1,4-dioxaneV

7.66min (+0.027) 0.93ug/L m

response 217

Ion	Exp%	Act%
88.00	100	100
58.00	50.60	72.60#
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090615.D Vial: 15
Acq On : 6 Sep 2012 11:10 pm Operator: VG
Sample : 113689.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 07 08:45:00 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

Internal Standards		R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene IS		6.823	96	113881	10.000 ug/L	0.02
System Monitoring Compounds						
3) SS Toluene-d8_MS		8.521	98	119325	10.492 ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery	= 104.920%	
4) SS 4-BFB_MS		11.691	95	49475	9.696 ug/L	0.02
Spiked Amount	10.000	Range 70 - 130		Recovery	= 96.960%	
Target Compounds						Qvalue
2) 1,4-dioxaneV		7.662	88	2001	8.230 ug/L	94

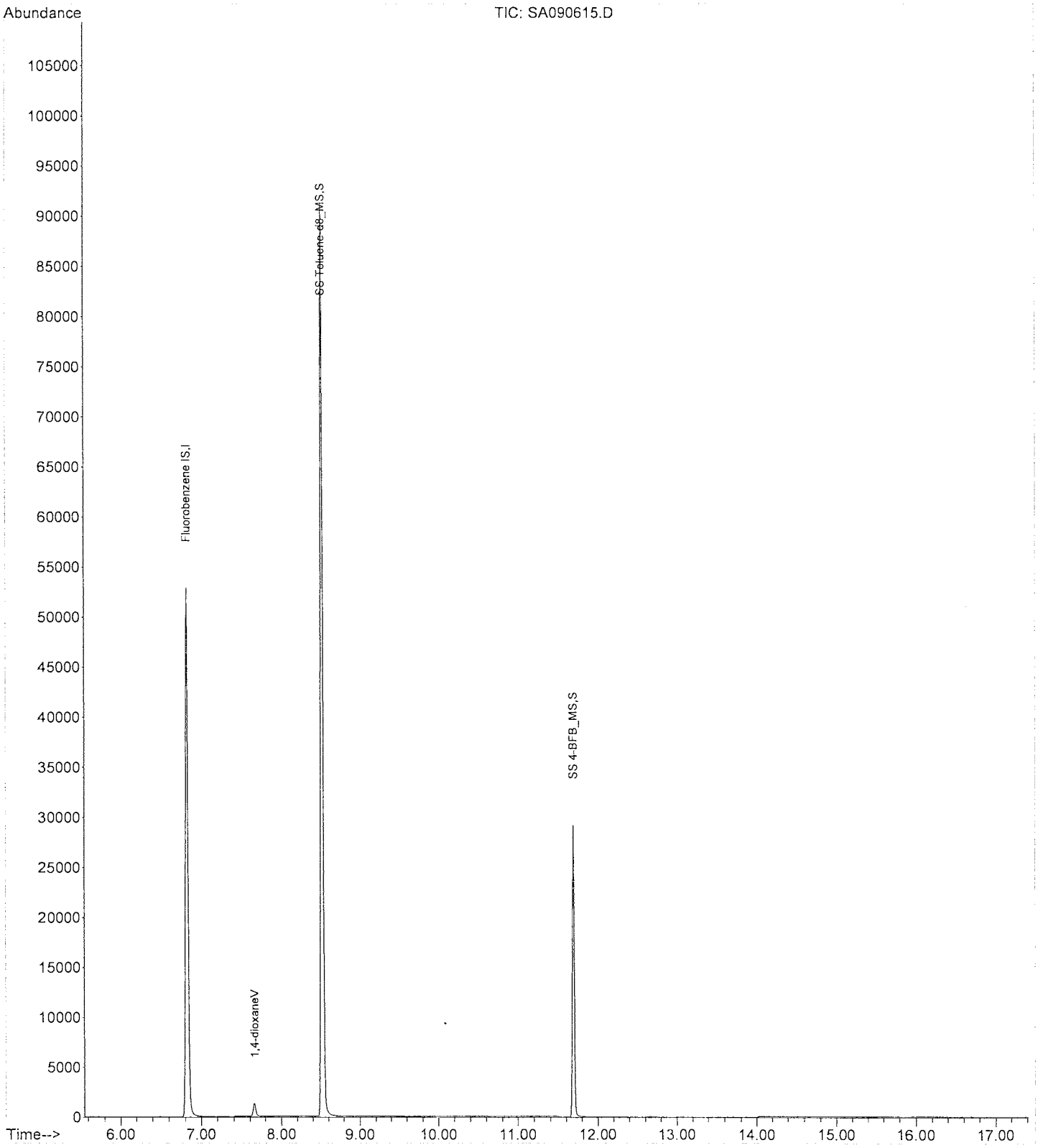
9/7/12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
SA090615.D 2SIM0524.M Fri Sep 07 08:45:00 2012

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\SEP12\SEP0612\SA090615.D Vial: 15
Acq On : 6 Sep 2012 11:10 pm Operator: VG
Sample : 113689.03 Inst : VOAMS2
Misc : X10;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: Sep 7 8:44 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Initial Calibration



Eastern Analytical, Inc.

Professional laboratory & drilling services

Metals 6020A

Sample and QC Data

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Thursday, September 06, 2012 23:21:43	89	90	90	89
QC Std 2	Thursday, September 06, 2012 23:28:08	89	90	91	90
QC Std 5	Thursday, September 06, 2012 23:34:32	91	90	91	90
QC Std 6	Thursday, September 06, 2012 23:40:57	93	93	91	90
113593.12 MS	Thursday, September 06, 2012 23:47:27	90	91	88	88
113593.12 MSD	Thursday, September 06, 2012 23:53:58	91	92	90	0
113653.01	Friday, September 07, 2012 00:20:03	112	91	88	89
113653.02	Friday, September 07, 2012 00:26:35	107	92	85	87
113653.03	Friday, September 07, 2012 00:33:06	104	89	86	88
113653.04	Friday, September 07, 2012 00:39:37	107	90	87	88
113653.05	Friday, September 07, 2012 00:46:08	111	91	88	89
QC Std 1	Friday, September 07, 2012 00:52:34	88	90	90	89
QC Std 2	Friday, September 07, 2012 00:58:59	90	89	90	89
QC Std 5	Friday, September 07, 2012 01:05:23	91	89	87	87
QC Std 6	Friday, September 07, 2012 01:11:48	91	90	89	89
113653.06	Friday, September 07, 2012 01:18:19	105	90	86	87
113653.07	Friday, September 07, 2012 01:24:50	108	89	86	87
113653.07 MS	Friday, September 07, 2012 01:31:21	112	91	88	89
113653.07 MSD	Friday, September 07, 2012 01:37:52	107	87	83	85
113653.07 MS	Friday, September 07, 2012 01:44:23	106	88	84	85
113653.07 MSD	Friday, September 07, 2012 01:50:54	110	88	84	87
113653.08	Friday, September 07, 2012 02:17:01	109	88	85	87
QC Std 1	Friday, September 07, 2012 02:23:28	90	86	87	88
QC Std 2	Friday, September 07, 2012 02:29:53	86	86	87	87
QC Std 5	Friday, September 07, 2012 02:36:17	89	88	88	89
QC Std 6	Friday, September 07, 2012 02:42:41	90	88	87	88
113653.09	Friday, September 07, 2012 02:49:12	111	92	90	90
113653.1	Friday, September 07, 2012 02:55:43	113	93	90	92
113653.11	Friday, September 07, 2012 03:02:14	120	97	95	97
113653.12	Friday, September 07, 2012 03:08:46	104	91	88	91
113653.13	Friday, September 07, 2012 03:15:17	107	94	90	93
113653.14	Friday, September 07, 2012 03:21:48	118	93	89	91
113653.15	Friday, September 07, 2012 03:28:19	104	87	85	87
113653.16	Friday, September 07, 2012 03:34:51	108	89	87	90
113653.17	Friday, September 07, 2012 03:41:22	111	91	88	90
113653.17 MS	Friday, September 07, 2012 03:47:54	107	89	86	87
QC Std 1	Friday, September 07, 2012 03:54:21	93	91	90	91
QC Std 2	Friday, September 07, 2012 04:00:47	90	89	90	90
QC Std 5	Friday, September 07, 2012 04:07:11	94	92	91	91
QC Std 6	Friday, September 07, 2012 04:13:35	94	92	89	91
113653.17 MSD	Friday, September 07, 2012 04:20:06	107	91	85	88
113653.18	Friday, September 07, 2012 04:46:13	111	90	86	87
113653.2	Friday, September 07, 2012 04:52:44	93	90	90	91
113689.01	Friday, September 07, 2012 04:59:16	108	92	89	91
113689.02	Friday, September 07, 2012 05:05:48	106	91	88	90
113689.03	Friday, September 07, 2012 05:12:19	111	86	82	85
113689.04	Friday, September 07, 2012 05:18:51	110	92	90	92
QC Std 1	Friday, September 07, 2012 05:25:18	91	89	87	88

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 2	Friday, September 07, 2012 05:31:43	91	89	88	90
QC Std 5	Friday, September 07, 2012 05:38:07	94	91	89	92
QC Std 6	Friday, September 07, 2012 05:44:32	96	92	89	92
113689.05	Friday, September 07, 2012 05:51:03	107	93	90	92
113689.06	Friday, September 07, 2012 05:57:35	119	94	91	94
113689.07	Friday, September 07, 2012 06:04:07	108	94	91	93
113689.08	Friday, September 07, 2012 06:10:39	117	91	88	91
113689.08 MS	Friday, September 07, 2012 06:17:12	114	92	88	89
113689.08 MSD	Friday, September 07, 2012 06:23:44	111	91	87	89
113689.09	Friday, September 07, 2012 06:49:53	106	88	86	90
QC Std 1	Friday, September 07, 2012 06:56:20	90	87	87	89
QC Std 2	Friday, September 07, 2012 07:02:46	92	89	90	90
QC Std 5	Friday, September 07, 2012 07:09:10	92	90	89	91
QC Std 6	Friday, September 07, 2012 07:15:35	98	93	90	92
113689.1	Friday, September 07, 2012 07:22:06	104	89	86	90
113689.11	Friday, September 07, 2012 07:28:38	115	87	85	88
113593.02	Friday, September 07, 2012 07:35:10	102	85	84	86
113593.02 MS	Friday, September 07, 2012 07:41:43	106	89	85	86
113593.02 MSD	Friday, September 07, 2012 07:48:15	106	88	84	86
113593.03	Friday, September 07, 2012 08:14:26	112	91	87	90
113593.05	Friday, September 07, 2012 08:20:58	104	89	88	91
QC Std 1	Friday, September 07, 2012 08:27:26	92	88	88	89
QC Std 2	Friday, September 07, 2012 08:33:51	91	88	87	88
QC Std 5	Friday, September 07, 2012 08:40:15	96	90	88	91
QC Std 6	Friday, September 07, 2012 08:46:40	96	91	89	91
113593.08	Friday, September 07, 2012 08:53:11	126	96	89	91
113593.09	Friday, September 07, 2012 08:59:44	114	94	90	92
113593.1	Friday, September 07, 2012 09:06:17	106	93	90	92
113593.11	Friday, September 07, 2012 09:14:57	99	91	90	92
113593.12	Friday, September 07, 2012 09:21:30	99	93	91	94
113593.08	Friday, September 07, 2012 09:28:03	113	95	89	90
QC Std 1	Friday, September 07, 2012 09:41:03	96	91	89	91
QC Std 2	Friday, September 07, 2012 09:47:28	100	93	90	92
QC Std 5	Friday, September 07, 2012 09:53:52	99	92	90	91
QC Std 6	Friday, September 07, 2012 10:00:17	97	94	89	91
BLK	Friday, September 07, 2012 10:34:16	109	101	97	99
BLK	Friday, September 07, 2012 10:40:49	112	101	98	98
LCS	Friday, September 07, 2012 10:47:22	105	98	93	96
QC Std 1	Friday, September 07, 2012 11:49:03	100	94	91	93
QC Std 2	Friday, September 07, 2012 11:55:28	97	94	90	91
QC Std 5	Friday, September 07, 2012 12:01:52	96	94	90	91
QC Std 6	Friday, September 07, 2012 12:08:17	96	93	89	91

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Thursday, September 06, 2012 23:28:08
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.007428	ug/L	102.597		100
As	75	105.589959	ug/L	106.227		100
Ba	137	103.444407	ug/L	102.725		100
Be	9	96.293811	ug/L	95.34		100
Cd	111	106.839346	ug/L	106.308		100
Cd	114	105.677894	ug/L	105.152		100
Co	59	105.79631	ug/L	105.165		100
Cr	52	107.476549	ug/L	106.412		100
Cu	63	104.381455	ug/L	104.486		100
Cu	65	104.534691	ug/L	104.639		100
Ge	72		ug/L		89.553	
Hg	200	1.098585	ug/L	109.859		1
Hg	202	1.044361	ug/L	104.436		1
Ho	165		ug/L		90.285	
In	115		ug/L		90.824	
K	39	1088.02537	ug/L	108.477		1000
Mn	55	107.399963	ug/L	106.972		100
Ni	60	106.925168	ug/L	106.077		100
Ni	62	107.747324	ug/L	106.892		100
Pb	208	102.633645	ug/L	102.634		100
Sb	121	102.268699	ug/L	101.963		100
Sb	123	101.513876	ug/L	101.21		100
Sc	45		ug/L		89.05	
Se	82	97.459974	mg/L	97.265		100
V	51	105.472792	ug/L	105.053		100
Zn	64	103.406949	ug/L	102.688		100
Zn	66	102.23294	ug/L	101.522		100
Zn	68	102.049895	ug/L	101.341		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 00:58:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	100.61261	ug/L	100.212		100
As	75	103.648631	ug/L	104.274		100
Ba	137	102.121778	ug/L	101.412		100
Be	9	90.179277	ug/L	89.286		100
Cd	111	104.628519	ug/L	104.108		100
Cd	114	103.551763	ug/L	103.037		100
Co	59	102.778971	ug/L	102.166		100
Cr	52	103.297907	ug/L	102.275		100
Cu	63	100.164966	ug/L	100.265		100
Cu	65	99.555259	ug/L	99.655		100
Ge	72		ug/L		88.501	
Hg	200	1.081424	ug/L	108.142		1
Hg	202	1.059628	ug/L	105.963		1
Ho	165		ug/L		89.109	
In	115		ug/L		89.79	
K	39	1068.99571	ug/L	106.58		1000
Mn	55	104.801425	ug/L	104.384		100
Ni	60	103.681839	ug/L	102.859		100
Ni	62	104.073164	ug/L	103.247		100
Pb	208	102.473459	ug/L	102.473		100
Sb	121	101.17482	ug/L	100.872		100
Sb	123	100.035699	ug/L	99.736		100
Sc	45		ug/L		90.436	
Se	82	92.711649	mg/L	92.527		100
V	51	102.529886	ug/L	102.121		100
Zn	64	99.485537	ug/L	98.794		100
Zn	66	99.193944	ug/L	98.504		100
Zn	68	97.359045	ug/L	96.682		100

Sample ID: QC Std 5
Sample Date/Time: Thursday, September 06, 2012 23:34:32
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.304042	ug/L	107.263		15.2
Ag	109	16.314353	ug/L	107.331		15.2
Al	27	269.911922	ug/L	103.415		261
Ba	137	219.83785	ug/L	101.777		216
Be	9	67.466267	ug/L	95.157		70.9
Cd	111	10.011127	ug/L	104.391		9.59
Cd	114	9.916993	ug/L	103.41		9.59
Ge	72		ug/L		90.389	
Ho	165		ug/L		89.905	
In	115		ug/L		91.463	
Sc	45		ug/L		90.956	
Se	82	113.030576	mg/L	97.44		116
Tl	205	54.025913	ug/L	104.297		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 01:05:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.590443	ug/L	109.148		15.2
Ag	109	16.554947	ug/L	108.914		15.2
Al	27	262.923448	ug/L	100.737		261
Ba	137	222.078672	ug/L	102.814		216
Be	9	64.983236	ug/L	91.655		70.9
Cd	111	10.373649	ug/L	108.172		9.59
Cd	114	10.193759	ug/L	106.296		9.59
Ge	72		ug/L		88.591	
Ho	165		ug/L		86.849	
In	115		ug/L		87.367	
Sc	45		ug/L		90.613	
Se	82	110.516485	mg/L	95.273		116
Tl	205	54.474661	ug/L	105.163		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 6	Sample ID:	QC Std 6
Sample Date/Time:	Thursday, September 06, 2012 23:40:57	Sample Date/Time:	Friday, September 07, 2012 01:11:48
Sample Description:	CV-Minerals	Sample Description:	CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11036.2793	ug/L	110.363		10000
Fe	54	10311.5979	ug/L	103.116		10000
Fe	56	10409.3229	ug/L	104.093		10000
Ge	72		ug/L		93.123	
Ho	165		ug/L		90.258	
In	115		ug/L		90.773	
K	39	10617.0211	ug/L	106.17		10000
Sc	45		ug/L		92.672	

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11160.3026	ug/L	111.603		10000
Fe	54	10079.6803	ug/L	100.797		10000
Fe	56	10408.4177	ug/L	104.084		10000
Ge	72		ug/L		90.429	
Ho	165		ug/L		88.753	
In	115		ug/L		89.094	
K	39	10253.9056	ug/L	102.539		10000
Sc	45		ug/L		91.148	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 02:29:53
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	106.601418	ug/L	106.177		100
As	75	106.309878	ug/L	106.952		100
Ba	137	104.413422	ug/L	103.688		100
Be	9	89.399335	ug/L	88.514		100
Cd	111	106.467961	ug/L	105.938		100
Cd	114	105.967782	ug/L	105.441		100
Co	59	106.719612	ug/L	106.083		100
Cr	52	109.03291	ug/L	107.953		100
Cu	63	103.481252	ug/L	103.585		100
Cu	65	104.201341	ug/L	104.306		100
Ge	72		ug/L		86.24	
Hg	200	1.096861	ug/L	109.686		1
Hg	202	1.088696	ug/L	108.87		1
Ho	165		ug/L		86.887	
In	115		ug/L		87.408	
K	39	1121.47071	ug/L	111.812		1000
Mn	55	108.651672	ug/L	108.219		100
Ni	60	108.628985	ug/L	107.767		100
Ni	62	106.764476	ug/L	105.917		100
Pb	208	105.599981	ug/L	105.6		100
Sb	121	103.897255	ug/L	103.586		100
Sb	123	103.273626	ug/L	102.965		100
Sc	45		ug/L		85.85	
Se	82	94.01926	mg/L	93.832		100
V	51	108.404978	ug/L	107.973		100
Zn	64	103.989363	ug/L	103.266		100
Zn	66	103.025475	ug/L	102.309		100
Zn	68	102.665141	ug/L	101.951		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 04:00:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	104.456471	ug/L	104.04		100
As	75	106.564588	ug/L	107.208		100
Ba	137	104.426431	ug/L	103.701		100
Be	9	95.179802	ug/L	94.237		100
Cd	111	107.433011	ug/L	106.899		100
Cd	114	107.283156	ug/L	106.749		100
Co	59	106.084603	ug/L	105.452		100
Cr	52	108.495144	ug/L	107.421		100
Cu	63	103.879775	ug/L	103.984		100
Cu	65	103.922217	ug/L	104.026		100
Ge	72		ug/L		89.108	
Hg	200	1.106977	ug/L	110.698		1
Hg	202	1.080313	ug/L	108.031		1
Ho	165		ug/L		89.66	
In	115		ug/L		89.555	
K	39	1101.79182	ug/L	109.85		1000
Mn	55	108.553316	ug/L	108.121		100
Ni	60	106.49532	ug/L	105.65		100
Ni	62	107.545825	ug/L	106.692		100
Pb	208	106.610034	ug/L	106.61		100
Sb	121	102.726846	ug/L	102.42		100
Sb	123	102.606458	ug/L	102.3		100
Sc	45		ug/L		90.006	
Se	82	98.697544	mg/L	98.501		100
V	51	107.079747	ug/L	106.653		100
Zn	64	105.289647	ug/L	104.558		100
Zn	66	103.382013	ug/L	102.663		100
Zn	68	102.1701	ug/L	101.46		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 02:36:17
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.282255	ug/L	107.12		15.2
Ag	109	16.242201	ug/L	106.857		15.2
Al	27	268.853812	ug/L	103.009		261
Ba	137	222.3433	ug/L	102.937		216
Be	9	62.988067	ug/L	88.841		70.9
Cd	111	10.134568	ug/L	105.678		9.59
Cd	114	10.056424	ug/L	104.864		9.59
Ge	72		ug/L		87.548	
Ho	165		ug/L		88.538	
In	115		ug/L		88.091	
Sc	45		ug/L		88.507	
Se	82	109.982533	mg/L	94.813		116
Tl	205	54.629723	ug/L	105.463		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 04:07:11
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.660067	ug/L	109.606		15.2
Ag	109	16.394115	ug/L	107.856		15.2
Al	27	267.338622	ug/L	102.429		261
Ba	137	221.016375	ug/L	102.322		216
Be	9	65.250926	ug/L	92.032		70.9
Cd	111	10.220855	ug/L	106.578		9.59
Cd	114	10.023963	ug/L	104.525		9.59
Ge	72		ug/L		92.038	
Ho	165		ug/L		91.368	
In	115		ug/L		90.999	
Sc	45		ug/L		93.87	
Se	82	116.42071	mg/L	100.363		116
Tl	205	55.008623	ug/L	106.194		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 02:42:41
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11273.7819	ug/L	112.738		10000
Fe	54	10265.813	ug/L	102.658		10000
Fe	56	10615.6365	ug/L	106.156		10000
Ge	72		ug/L		88.2	
Ho	165		ug/L		87.663	
In	115		ug/L		87.215	
K	39	10511.932	ug/L	105.119		10000
Sc	45		ug/L		89.744	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 04:13:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11463.0717	ug/L	114.631		10000
Fe	54	10379.1423	ug/L	103.791		10000
Fe	56	10765.2342	ug/L	107.652		10000
Ge	72		ug/L		91.624	
Ho	165		ug/L		90.646	
In	115		ug/L		88.646	
K	39	10482.9163	ug/L	104.829		10000
Sc	45		ug/L		93.563	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 05:31:43
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	104.228591	ug/L	103.813		100
As	75	104.473638	ug/L	105.104		100
Ba	137	104.606138	ug/L	103.879		100
Be	9	95.468681	ug/L	94.523		100
Cd	111	107.566303	ug/L	107.031		100
Cd	114	106.503964	ug/L	105.974		100
Co	59	103.879631	ug/L	103.26		100
Cr	52	107.114838	ug/L	106.054		100
Cu	63	99.921223	ug/L	100.021		100
Cu	65	100.398023	ug/L	100.499		100
Ge	72		ug/L		89.187	
Hg	200	1.104112	ug/L	110.411		1
Hg	202	1.089351	ug/L	108.935		1
Ho	165		ug/L		90.133	
In	115		ug/L		88.269	
K	39	1073.48918	ug/L	107.028		1000
Mn	55	107.304683	ug/L	106.877		100
Ni	60	103.833917	ug/L	103.01		100
Ni	62	104.144994	ug/L	103.318		100
Pb	208	105.355177	ug/L	105.355		100
Sb	121	102.492115	ug/L	102.186		100
Sb	123	101.744848	ug/L	101.441		100
Sc	45		ug/L		90.838	
Se	82	98.328944	mg/L	98.133		100
V	51	104.007884	ug/L	103.594		100
Zn	64	103.193301	ug/L	102.476		100
Zn	66	100.399726	ug/L	99.702		100
Zn	68	100.632213	ug/L	99.933		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 07:02:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	103.76198	ug/L	103.349		100
As	75	105.370189	ug/L	106.006		100
Ba	137	104.59202	ug/L	103.865		100
Be	9	86.532448	ug/L	85.676		100
Cd	111	106.706207	ug/L	106.175		100
Cd	114	106.33957	ug/L	105.811		100
Co	59	103.208204	ug/L	102.593		100
Cr	52	105.890694	ug/L	104.842		100
Cu	63	100.326555	ug/L	100.427		100
Cu	65	99.903214	ug/L	100.003		100
Ge	72		ug/L		88.795	
Hg	200	1.064265	ug/L	106.426		1
Hg	202	1.065636	ug/L	106.564		1
Ho	165		ug/L		90.245	
In	115		ug/L		89.737	
K	39	1076.16884	ug/L	107.295		1000
Mn	55	107.042363	ug/L	106.616		100
Ni	60	104.117455	ug/L	103.291		100
Ni	62	103.566308	ug/L	102.744		100
Pb	208	106.867845	ug/L	106.868		100
Sb	121	102.407044	ug/L	102.101		100
Sb	123	101.434122	ug/L	101.131		100
Sc	45		ug/L		91.818	
Se	82	97.032447	mg/L	96.839		100
V	51	103.964112	ug/L	103.55		100
Zn	64	100.960909	ug/L	100.259		100
Zn	66	99.791743	ug/L	99.098		100
Zn	68	98.622357	ug/L	97.937		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 05:38:07
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.553142	ug/L	108.902		15.2
Ag	109	16.430585	ug/L	108.096		15.2
Al	27	267.249222	ug/L	102.394		261
Ba	137	222.346136	ug/L	102.938		216
Be	9	65.709324	ug/L	92.679		70.9
Cd	111	10.173381	ug/L	106.083		9.59
Cd	114	10.141181	ug/L	105.747		9.59
Ge	72		ug/L		90.509	
Ho	165		ug/L		91.867	
In	115		ug/L		89.489	
Sc	45		ug/L		94.455	
Se	82	114.420081	mg/L	98.638		116
Tl	205	54.483681	ug/L	105.181		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 07:09:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.574182	ug/L	109.041		15.2
Ag	109	16.531621	ug/L	108.761		15.2
Al	27	271.219832	ug/L	103.916		261
Ba	137	225.015531	ug/L	104.174		216
Be	9	62.546827	ug/L	88.218		70.9
Cd	111	10.237591	ug/L	106.753		9.59
Cd	114	10.234177	ug/L	106.717		9.59
Ge	72		ug/L		89.987	
Ho	165		ug/L		91.033	
In	115		ug/L		89.458	
Sc	45		ug/L		92.005	
Se	82	114.565879	mg/L	98.764		116
Tl	205	55.246364	ug/L	106.653		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 6	Sample ID:	QC Std 6
Sample Date/Time:	Friday, September 07, 2012 05:44:32	Sample Date/Time:	Friday, September 07, 2012 07:15:35
Sample Description:	CV-Minerals	Sample Description:	CV-Minerals

Concentration Results				QC Std	Int Std	True	Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value	Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11137.7215	ug/L	111.377		10000	Al	27	11508.9265	ug/L	115.089		10000
Fe	54	10186.9393	ug/L	101.869		10000	Fe	54	10150.4426	ug/L	101.504		10000
Fe	56	10278.9623	ug/L	102.79		10000	Fe	56	10266.6016	ug/L	102.666		10000
Ge	72		ug/L		91.783		Ge	72		ug/L		93.113	
Ho	165		ug/L		91.646		Ho	165		ug/L		91.998	
In	115		ug/L		88.663		In	115		ug/L		90.103	
K	39	10335.2433	ug/L	103.352		10000	K	39	10397.0268	ug/L	103.97		10000
Sc	45		ug/L		95.545		Sc	45		ug/L		97.955	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 08:33:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	106.181942	ug/L	105.759		100
As	75	106.316061	ug/L	106.958		100
Ba	137	104.873113	ug/L	104.144		100
Be	9	90.110849	ug/L	89.219		100
Cd	111	108.423699	ug/L	107.884		100
Cd	114	108.028516	ug/L	107.491		100
Co	59	104.835838	ug/L	104.211		100
Cr	52	107.4494	ug/L	106.386		100
Cu	63	101.290825	ug/L	101.392		100
Cu	65	101.591682	ug/L	101.693		100
Ge	72		ug/L		88.029	
Hg	200	1.073133	ug/L	107.313		1
Hg	202	1.072306	ug/L	107.231		1
Ho	165		ug/L		88.096	
In	115		ug/L		87.477	
K	39	1076.45949	ug/L	107.324		1000
Mn	55	107.808813	ug/L	107.379		100
Ni	60	106.144798	ug/L	105.302		100
Ni	62	104.585018	ug/L	103.755		100
Pb	208	109.279761	ug/L	109.28		100
Sb	121	103.037634	ug/L	102.729		100
Sb	123	102.516499	ug/L	102.21		100
Sc	45		ug/L		90.612	
Se	82	98.041145	mg/L	97.845		100
V	51	104.806395	ug/L	104.389		100
Zn	64	102.890704	ug/L	102.175		100
Zn	66	101.495228	ug/L	100.79		100
Zn	68	100.237678	ug/L	99.541		100

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 09:47:28
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.368695	ug/L	96.981		100
As	75	102.538533	ug/L	103.157		100
Ba	137	100.973954	ug/L	100.272		100
Be	9	96.125473	ug/L	95.174		100
Cd	111	105.649708	ug/L	105.124		100
Cd	114	104.473337	ug/L	103.954		100
Co	59	96.21639	ug/L	95.643		100
Cr	52	100.249329	ug/L	99.257		100
Cu	63	94.48324	ug/L	94.578		100
Cu	65	94.312223	ug/L	94.407		100
Ge	72		ug/L		92.687	
Hg	200	1.066315	ug/L	106.632		1
Hg	202	1.01789	ug/L	101.789		1
Ho	165		ug/L		92.087	
In	115		ug/L		90.273	
K	39	1023.43502	ug/L	102.037		1000
Mn	55	100.944	ug/L	100.542		100
Ni	60	97.295169	ug/L	96.523		100
Ni	62	97.937575	ug/L	97.16		100
Pb	208	106.519004	ug/L	106.519		100
Sb	121	99.651112	ug/L	99.353		100
Sb	123	97.804555	ug/L	97.512		100
Sc	45		ug/L		99.763	
Se	82	100.840949	mg/L	100.64		100
V	51	97.667662	ug/L	97.279		100
Zn	64	96.549555	ug/L	95.878		100
Zn	66	94.324562	ug/L	93.669		100
Zn	68	93.828327	ug/L	93.176		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 08:40:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.164548	ug/L	112.925		15.2
Ag	109	16.889604	ug/L	111.116		15.2
Al	27	264.078595	ug/L	101.18		261
Ba	137	223.362929	ug/L	103.409		216
Be	9	61.315657	ug/L	86.482		70.9
Cd	111	10.157261	ug/L	105.915		9.59
Cd	114	10.219883	ug/L	106.568		9.59
Ge	72		ug/L		90.227	
Ho	165		ug/L		90.913	
In	115		ug/L		88.184	
Sc	45		ug/L		95.61	
Se	82	113.053451	mg/L	97.46		116
Tl	205	55.144716	ug/L	106.457		51.8

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 09:53:52
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	17.068287	ug/L	112.291		15.2
Ag	109	16.703383	ug/L	109.891		15.2
Al	27	254.856911	ug/L	97.646		261
Ba	137	220.658568	ug/L	102.157		216
Be	9	70.613522	ug/L	99.596		70.9
Cd	111	10.197104	ug/L	106.331		9.59
Cd	114	10.176594	ug/L	106.117		9.59
Ge	72		ug/L		92.199	
Ho	165		ug/L		91.208	
In	115		ug/L		90.059	
Sc	45		ug/L		99.079	
Se	82	119.453185	mg/L	102.977		116
Tl	205	56.956529	ug/L	109.955		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 08:46:40
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	11491.3733	ug/L	114.914		10000
Fe	54	10215.7226	ug/L	102.157		10000
Fe	56	10421.914	ug/L	104.219		10000
Ge	72		ug/L		91.427	
Ho	165		ug/L		91.409	
In	115		ug/L		88.746	
K	39	10338.4857	ug/L	103.385		10000
Sc	45		ug/L		95.553	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 10:00:17
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10961.0051	ug/L	109.61		10000
Fe	54	10078.0942	ug/L	100.781		10000
Fe	56	10421.0611	ug/L	104.211		10000
Ge	72		ug/L		93.797	
Ho	165		ug/L		91.344	
In	115		ug/L		88.778	
K	39	10044.1547	ug/L	100.442		10000
Sc	45		ug/L		97.378	

Eastern Analytical, Inc.

Calibration Verification (CV) Summ
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 11:55:28
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	97.107513	ug/L	96.721		100
As	75	104.717685	ug/L	105.35		100
Ba	137	103.782673	ug/L	103.061		100
Be	9	104.622741	ug/L	103.587		100
Cd	111	109.886805	ug/L	109.34		100
Cd	114	107.77002	ug/L	107.234		100
Co	59	102.083242	ug/L	101.474		100
Cr	52	104.935051	ug/L	103.896		100
Cu	63	100.312536	ug/L	100.413		100
Cu	65	100.371706	ug/L	100.472		100
Ge	72		ug/L		93.557	
Hg	200	1.078081	ug/L	107.808		1
Hg	202	1.083392	ug/L	108.339		1
Ho	165		ug/L		90.628	
In	115		ug/L		89.981	
K	39	1042.96433	ug/L	103.984		1000
Mn	55	105.952755	ug/L	105.531		100
Ni	60	102.744734	ug/L	101.929		100
Ni	62	104.15721	ug/L	103.331		100
Pb	208	108.834372	ug/L	108.834		100
Sb	121	101.547375	ug/L	101.244		100
Sb	123	100.741554	ug/L	100.44		100
Sc	45		ug/L		96.544	
Se	82	102.983147	mg/L	102.778		100
V	51	100.687605	ug/L	100.286		100
Zn	64	101.015194	ug/L	100.313		100
Zn	66	98.947185	ug/L	98.259		100
Zn	68	98.74251	ug/L	98.056		100

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 12:01:52
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	16.992136	ug/L	111.79		15.2
Ag	109	16.899415	ug/L	111.18		15.2
Al	27	258.778984	ug/L	99.149		261
Ba	137	222.197892	ug/L	102.869		216
Be	9	75.198168	ug/L	106.062		70.9
Cd	111	10.319093	ug/L	107.603		9.59
Cd	114	10.093319	ug/L	105.248		9.59
Ge	72		ug/L		93.776	
Ho	165		ug/L		90.782	
In	115		ug/L		90.248	
Sc	45		ug/L		95.696	
Se	82	119.529822	mg/L	103.043		116
Tl	205	56.706114	ug/L	109.471		51.8

Eastern Analytical, Inc.

Calibration Verification (CV) Summ
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 12:08:17
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10877.5762	ug/L	108.776		10000
Fe	54	10051.5406	ug/L	100.515		10000
Fe	56	10372.2167	ug/L	103.722		10000
Ge	72		ug/L		93.229	
Ho	165		ug/L		90.756	
In	115		ug/L		89.494	
K	39	10392.2219	ug/L	103.922		10000
Sc	45		ug/L		96.195	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	**QC Std 1**	**Sample ID:**	**QC Std 1**
Sample Date/Time:	**Thursday, September 06, 2012 23:21:43**	**Sample Date/Time:**	**Friday, September 07, 2012 00:52:34**
Sample Description:	**Blank**	**Sample Description:**	**Blank**

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.01153	ug/L		< 1
Ag	109	0.00785	ug/L		< 1
Al	27	-0.780217	ug/L		< 50
As	75	0.016746	ug/L		< 1
Ba	137	-0.001327	ug/L		< 1
Be	9	-0.016137	ug/L		< 1
Ca	44	-5.043109	ug/L		< 50
Cd	111	0.014016	ug/L		< 1
Cd	114	0.014114	ug/L		< 1
Co	59	0.001465	ug/L		< 1
Cr	52	0.052832	ug/L		< 1
Cu	63	-0.096026	ug/L		< 1
Cu	65	-0.008426	ug/L		< 1
Fe	54	-1.229769	ug/L		< 50
Fe	56	24.816208	ug/L		< 50
Ge	72		ug/L	90.257	
Hg	200	-0.00172	ug/L		< 0.2
Hg	202	-0.00343	ug/L		< 0.2
Ho	165		ug/L	89.45	
In	115		ug/L	90.082	
K	39	8.582535	ug/L		< 50
Mg	24	-0.004552	ug/L		< 50
Mg	25	0.056959	ug/L		< 50
Mn	55	-0.928601	ug/L		< 5
Na	23	3.919229	ug/L		< 5000
Ni	60	0.004604	ug/L		< 1
Ni	62	0.034922	ug/L		< 1
P	31	-8.078879	ug/L		< 50
Pb	208	-0.01169	ug/L		< 1
Sb	121	0.009473	ug/L		< 1
Sb	123	0.008926	ug/L		< 1
Sc	45		ug/L	89.237	
Se	82	-0.067136	mg/L		< 1
Tl	205	0.002326	ug/L		< 1
V	51	1.006693	ug/L		< 1
Zn	64	0.165679	ug/L		< 5
Zn	66	0.199313	ug/L		< 5
Zn	68	0.231192	ug/L		< 5

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.016485	ug/L		< 1
Ag	109	0.015977	ug/L		< 1
Al	27	-0.810205	ug/L		< 50
As	75	0.059117	ug/L		< 1
Ba	137	-0.001865	ug/L		< 1
Be	9	0.000552	ug/L		< 1
Ca	44	-12.574116	ug/L		< 50
Cd	111	0.019322	ug/L		< 1
Cd	114	0.021919	ug/L		< 1
Co	59	0.001317	ug/L		< 1
Cr	52	0.053345	ug/L		< 1
Cu	63	-0.108823	ug/L		< 1
Cu	65	-0.005705	ug/L		< 1
Fe	54	1.251155	ug/L		< 50
Fe	56	23.873513	ug/L		< 50
Ge	72		ug/L	90.266	
Hg	200	-0.002353	ug/L		< 0.2
Hg	202	-0.002954	ug/L		< 0.2
Ho	165		ug/L	88.824	
In	115		ug/L	90.109	
K	39	8.153328	ug/L		< 50
Mg	24	0.097075	ug/L		< 50
Mg	25	0.097	ug/L		< 50
Mn	55	-0.930893	ug/L		< 5
Na	23	3.085269	ug/L		< 5000
Ni	60	0.003181	ug/L		< 1
Ni	62	0.019586	ug/L		< 1
P	31	-3.507515	ug/L		< 50
Pb	208	-0.010767	ug/L		< 1
Sb	121	0.013232	ug/L		< 1
Sb	123	0.012066	ug/L		< 1
Sc	45		ug/L	88.179	
Se	82	0.161197	mg/L		< 1
Tl	205	0.003018	ug/L		< 1
V	51	0.869506	ug/L		< 1
Zn	64	0.180725	ug/L		< 5
Zn	66	0.189608	ug/L		< 5
Zn	68	0.205072	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 02:23:28
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.100559	ug/L		< 1
Ag	109	0.099294	ug/L		< 1
Al	27	-0.788831	ug/L		< 50
As	75	0.026791	ug/L		< 1
Ba	137	0.002456	ug/L		< 1
Be	9	-0.007429	ug/L		< 1
Ca	44	-19.563649	ug/L		< 50
Cd	111	-0.006085	ug/L		< 1
Cd	114	-0.002728	ug/L		< 1
Co	59	0.005546	ug/L		< 1
Cr	52	0.027095	ug/L		< 1
Cu	63	-0.070166	ug/L		< 1
Cu	65	-0.000466	ug/L		< 1
Fe	54	-1.080851	ug/L		< 50
Fe	56	22.854231	ug/L		< 50
Ge	72		ug/L	86.268	
Hg	200	0.000461	ug/L		< 0.2
Hg	202	-0.002948	ug/L		< 0.2
Ho	165		ug/L	87.806	
In	115		ug/L	86.647	
K	39	5.934697	ug/L		< 50
Mg	24	0.161986	ug/L		< 50
Mg	25	0.088311	ug/L		< 50
Mn	55	-0.929713	ug/L		< 5
Na	23	5.256339	ug/L		< 5000
Ni	60	0.012498	ug/L		< 1
Ni	62	0.009988	ug/L		< 1
P	31	-8.119396	ug/L		< 50
Pb	208	-0.009107	ug/L		< 1
Sb	121	0.043178	ug/L		< 1
Sb	123	0.038944	ug/L		< 1
Sc	45		ug/L	89.764	
Se	82	0.027821	mg/L		< 1
Tl	205	0.008195	ug/L		< 1
V	51	0.671489	ug/L		< 1
Zn	64	0.164341	ug/L		< 5
Zn	66	0.178491	ug/L		< 5
Zn	68	0.211095	ug/L		< 5

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 03:54:21
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Ag	107	1.196455	ug/L		< 1
Ag	109	1.175559	ug/L		< 1
Al	27	-0.726099	ug/L		< 50
As	75	0.062964	ug/L		< 1
Ba	137	0.010282	ug/L		< 1
Be	9	0.000519	ug/L		< 1
Ca	44	-21.138932	ug/L		< 50
Cd	111	0.021357	ug/L		< 1
Cd	114	0.023226	ug/L		< 1
Co	59	0.012933	ug/L		< 1
Cr	52	0.060762	ug/L		< 1
Cu	63	-0.073045	ug/L		< 1
Cu	65	0.03099	ug/L		< 1
Fe	54	-0.557801	ug/L		< 50
Fe	56	22.826428	ug/L		< 50
Ge	72		ug/L	91.219	
Hg	200	0.00814	ug/L		< 0.2
Hg	202	0.008505	ug/L		< 0.2
Ho	165		ug/L	90.582	
In	115		ug/L	89.759	
K	39	2.716743	ug/L		< 50
Mg	24	0.215921	ug/L		< 50
Mg	25	0.157948	ug/L		< 50
Mn	55	-0.944534	ug/L		< 5
Na	23	4.664851	ug/L		< 5000
Ni	60	0.016453	ug/L		< 1
Ni	62	-0.006314	ug/L		< 1
P	31	-7.375926	ug/L		< 50
Pb	208	-0.001166	ug/L		< 1
Sb	121	0.332939	ug/L		< 1
Sb	123	0.332767	ug/L		< 1
Sc	45		ug/L	93.108	
Se	82	0.144823	mg/L		< 1
Tl	205	0.026134	ug/L		< 1
V	51	0.774635	ug/L		< 1
Zn	64	0.199671	ug/L		< 5
Zn	66	0.204113	ug/L		< 5
Zn	68	0.233463	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID:	**QC Std 1**					**Sample ID:**	**QC Std 1**				
Sample Date/Time:	**Friday, September 07, 2012 05:25:18**					**Sample Date/Time:**	**Friday, September 07, 2012 06:56:20**				
Sample Description:	**Blank**					**Sample Description:**	**Blank**				
Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.079574	ug/L		< 1	Ag	107	0.123651	ug/L		< 1
Ag	109	0.080091	ug/L		< 1	Ag	109	0.117359	ug/L		< 1
Al	27	-0.781878	ug/L		< 50	Al	27	-0.77231	ug/L		< 50
As	75	0.103849	ug/L		< 1	As	75	0.030556	ug/L		< 1
Ba	137	-0.001677	ug/L		< 1	Ba	137	0.001352	ug/L		< 1
Be	9	-0.000139	ug/L		< 1	Be	9	-0.000106	ug/L		< 1
Ca	44	-26.076269	ug/L		< 50	Ca	44	-26.518105	ug/L		< 50
Cd	111	0.017096	ug/L		< 1	Cd	111	0.01683	ug/L		< 1
Cd	114	0.018564	ug/L		< 1	Cd	114	0.020593	ug/L		< 1
Co	59	0.002411	ug/L		< 1	Co	59	0.005315	ug/L		< 1
Cr	52	0.074191	ug/L		< 1	Cr	52	0.083397	ug/L		< 1
Cu	63	-0.117389	ug/L		< 1	Cu	63	-0.107076	ug/L		< 1
Cu	65	-0.008919	ug/L		< 1	Cu	65	-0.004965	ug/L		< 1
Fe	54	-1.163199	ug/L		< 50	Fe	54	-0.868346	ug/L		< 50
Fe	56	20.87404	ug/L		< 50	Fe	56	25.646631	ug/L		< 50
Ge	72		ug/L	88.834		Ge	72		ug/L	86.758	
Hg	200	-0.003484	ug/L		< 0.2	Hg	200	-0.001363	ug/L		< 0.2
Hg	202	-0.002977	ug/L		< 0.2	Hg	202	-0.004068	ug/L		< 0.2
Ho	165		ug/L	87.918		Ho	165		ug/L	89.37	
In	115		ug/L	86.521		In	115		ug/L	86.969	
K	39	3.665075	ug/L		< 50	K	39	3.995345	ug/L		< 50
Mg	24	0.169241	ug/L		< 50	Mg	24	0.269888	ug/L		< 50
Mg	25	0.218242	ug/L		< 50	Mg	25	0.297677	ug/L		< 50
Mn	55	-0.978181	ug/L		< 5	Mn	55	-0.971386	ug/L		< 5
Na	23	3.028041	ug/L		< 5000	Na	23	3.512347	ug/L		< 5000
Ni	60	0.013174	ug/L		< 1	Ni	60	0.006856	ug/L		< 1
Ni	62	-0.014623	ug/L		< 1	Ni	62	0.010632	ug/L		< 1
P	31	-7.928803	ug/L		< 50	P	31	-6.399727	ug/L		< 50
Pb	208	-0.006854	ug/L		< 1	Pb	208	-0.006072	ug/L		< 1
Sb	121	0.020779	ug/L		< 1	Sb	121	0.040195	ug/L		< 1
Sb	123	0.020251	ug/L		< 1	Sb	123	0.040163	ug/L		< 1
Sc	45		ug/L	90.595		Sc	45		ug/L	90.048	
Se	82	0.200612	mg/L		< 1	Se	82	0.006769	mg/L		< 1
Tl	205	0.008641	ug/L		< 1	Tl	205	0.00373	ug/L		< 1
V	51	0.924208	ug/L		< 1	V	51	0.941799	ug/L		< 1
Zn	64	0.200822	ug/L		< 5	Zn	64	0.19523	ug/L		< 5
Zn	66	0.171638	ug/L		< 5	Zn	66	0.180931	ug/L		< 5
Zn	68	0.218088	ug/L		< 5	Zn	68	0.1963	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 08:27:26
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	1.215645	ug/L		< 1
Ag	109	1.212195	ug/L		< 1
Al	27	-0.781788	ug/L		< 50
As	75	-0.05965	ug/L		< 1
Ba	137	0.0018	ug/L		< 1
Be	9	-0.010349	ug/L		< 1
Ca	44	-32.132469	ug/L		< 50
Cd	111	0.016207	ug/L		< 1
Cd	114	0.013874	ug/L		< 1
Co	59	-0.009745	ug/L		< 1
Cr	52	0.023569	ug/L		< 1
Cu	63	-0.107682	ug/L		< 1
Cu	65	-0.006666	ug/L		< 1
Fe	54	-0.513681	ug/L		< 50
Fe	56	19.512539	ug/L		< 50
Ge	72		ug/L	88.448	
Hg	200	-0.000572	ug/L		< 0.2
Hg	202	0.000713	ug/L		< 0.2
Ho	165		ug/L	88.745	
In	115		ug/L	87.936	
K	39	2.602435	ug/L		< 50
Mg	24	0.186703	ug/L		< 50
Mg	25	0.134743	ug/L		< 50
Mn	55	-0.888502	ug/L		< 5
Na	23	4.151505	ug/L		< 5000
Ni	60	0.009834	ug/L		< 1
Ni	62	0.002181	ug/L		< 1
P	31	-1.880792	ug/L		< 50
Pb	208	-0.001921	ug/L		< 1
Sb	121	0.033089	ug/L		< 1
Sb	123	0.028666	ug/L		< 1
Sc	45		ug/L	92.447	
Se	82	-0.040608	mg/L		< 1
Tl	205	0.003836	ug/L		< 1
V	51	0.525243	ug/L		< 1
Zn	64	0.178892	ug/L		< 5
Zn	66	0.204984	ug/L		< 5
Zn	68	0.196825	ug/L		< 5

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 09:41:03
Sample Description: Blank

Concentration Results

Analyte	Mass	Conc.	Units	Int Std % R	RL
Ag	107	0.504789	ug/L		< 1
Ag	109	0.493296	ug/L		< 1
Al	27	-0.790761	ug/L		< 50
As	75	-0.016947	ug/L		< 1
Ba	137	0.000794	ug/L		< 1
Be	9	-0.010761	ug/L		< 1
Ca	44	-36.316289	ug/L		< 50
Cd	111	-0.000081	ug/L		< 1
Cd	114	0.005519	ug/L		< 1
Co	59	-0.015323	ug/L		< 1
Cr	52	-0.001542	ug/L		< 1
Cu	63	-0.124448	ug/L		< 1
Cu	65	-0.013073	ug/L		< 1
Fe	54	-3.405341	ug/L		< 50
Fe	56	0.423482	ug/L		< 50
Ge	72		ug/L	90.792	
Hg	200	-0.001708	ug/L		< 0.2
Hg	202	-0.004033	ug/L		< 0.2
Ho	165		ug/L	90.65	
In	115		ug/L	88.614	
K	39	-0.012363	ug/L		< 50
Mg	24	0.163955	ug/L		< 50
Mg	25	0.135218	ug/L		< 50
Mn	55	-0.947382	ug/L		< 5
Na	23	2.800332	ug/L		< 5000
Ni	60	0.007045	ug/L		< 1
Ni	62	-0.001408	ug/L		< 1
P	31	-4.181301	ug/L		< 50
Pb	208	-0.002429	ug/L		< 1
Sb	121	0.016332	ug/L		< 1
Sb	123	0.017159	ug/L		< 1
Sc	45		ug/L	95.8	
Se	82	0.042951	mg/L		< 1
Tl	205	0.004001	ug/L		< 1
V	51	0.397102	ug/L		< 1
Zn	64	0.166021	ug/L		< 5
Zn	66	0.164793	ug/L		< 5
Zn	68	0.172732	ug/L		< 5

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 1
Sample Date/Time: Friday, September 07, 2012 11:49:03
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Ag	107	0.145091	ug/L		< 1
Ag	109	0.142532	ug/L		< 1
Al	27	-0.871982	ug/L		< 50
As	75	-0.05243	ug/L		< 1
Ba	137	-0.000573	ug/L		< 1
Be	9	-0.005677	ug/L		< 1
Ca	44	-23.269544	ug/L		< 50
Cd	111	0.01194	ug/L		< 1
Cd	114	0.016248	ug/L		< 1
Co	59	0.00119	ug/L		< 1
Cr	52	0.013292	ug/L		< 1
Cu	63	-0.042811	ug/L		< 1
Cu	65	-0.012533	ug/L		< 1
Fe	54	4.821207	ug/L		< 50
Fe	56	5.520875	ug/L		< 50
Ge	72		ug/L	94.211	
Hg	200	-0.002224	ug/L		< 0.2
Hg	202	0.000185	ug/L		< 0.2
Ho	165		ug/L	92.528	
In	115		ug/L	91.284	
K	39	-3.917261	ug/L		< 50
Mg	24	0.000854	ug/L		< 50
Mg	25	0.032969	ug/L		< 50
Mn	55	-0.808364	ug/L		< 5
Na	23	0.862686	ug/L		< 5000
Ni	60	0.003749	ug/L		< 1
Ni	62	-0.021085	ug/L		< 1
P	31	-0.559258	ug/L		< 50
Pb	208	0.000712	ug/L		< 1
Sb	121	0.015151	ug/L		< 1
Sb	123	0.014213	ug/L		< 1
Sc	45		ug/L	100.313	
Se	82	-0.19638	mg/L		< 1
Tl	205	0.025221	ug/L		< 1
V	51	0.713253	ug/L		< 1
Zn	64	-0.047186	ug/L		< 5
Zn	66	-0.049887	ug/L		< 5
Zn	68	-0.00629	ug/L		< 5

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113653 & 113689
Total & Dissolved Metals

Sample ID: ICSA
Sample Date/Time: Thursday, September 06, 2012 18:13:18
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	0.022329	ug/L			< 1
Ag	109	0.015076	ug/L			< 1
Al	27	51040.18	ug/L	102.08		50000
As	75	0.012524	ug/L			< 1
Ba	137	0.107142	ug/L			< 1
Be	9	0.002204	ug/L			< 1
Ca	44	52880.57	ug/L	105.76		50000
Cd	111	0.044246	ug/L			< 1
Cd	114	0.041467	ug/L			< 1
Co	59	0.115918	ug/L			< 1
Cr	52	0.584863	ug/L			< 1
Cu	63	0.918004	ug/L			< 1
Cu	65	0.61801	ug/L			< 1
Fe	54	48199.92	ug/L	96.40		50000
Fe	56	49378.62	ug/L	98.76		50000
Fe	57	54721.37	ug/L	109.44		50000
Ge	72		ug/L		98.404	
Hg	200	0.049365	ug/L			< 0.1
Hg	202	0.054148	ug/L			< 0.1
Ho	165		ug/L		95.365	
In	115		ug/L		94.572	
K	39	49382.71	ug/L	98.77		50000
Mg	24	50675.53	ug/L	101.35		50000
Mg	25	52058.35	ug/L	104.12		50000
Mn	55	-0.66903	ug/L			< 5
Na	23	51523.46	ug/L	103.05		50000
Ni	60	1.305315	ug/L			1.3
Ni	62	0.740441	ug/L			< 1
P	31	51414.75	ug/L	102.83		50000
Pb	208	0.088906	ug/L			< 1
Sb	121	0.074427	ug/L			< 1
Sb	123	0.072759	ug/L			< 1
Sc	45		ug/L		95.385	
Se	82	-0.02981	mg/L			< 1
Tl	205	-0.00279	ug/L			< 1
V	51	3.26334	ug/L			< 5
Zn	64	4.064416	ug/L			< 5
Zn	66	0.851648	ug/L			< 5
Zn	68	0.468235	ug/L			< 5

Sample ID: ICSAB
Sample Date/Time: Thursday, September 06, 2012 18:19:43
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	9.013652	ug/L	90.14		10
Ag	109	8.977228	ug/L	89.77		10
Al	27	53343.77	ug/L	106.69		50000
As	75	9.652218	ug/L	96.52		10
Ba	137	10.42693	ug/L	104.27		10
Be	9	8.870807	ug/L	88.71		10
Ca	44	53179.04	ug/L	106.36		50000
Cd	111	9.414568	ug/L	94.15		10
Cd	114	9.494782	ug/L	94.95		10
Co	59	9.546719	ug/L	95.47		10
Cr	52	10.3947	ug/L	103.95		10
Cu	63	9.446077	ug/L	94.46		10
Cu	65	9.249026	ug/L	92.49		10
Fe	54	48330.9	ug/L	96.66		50000
Fe	56	50293.03	ug/L	100.59		50000
Fe	57	54140.21	ug/L	108.28		50000
Ge	72		ug/L		96.32	
Hg	200	0.990908	ug/L	99.09		1
Hg	202	0.996032	ug/L	99.60		1
Ho	165		ug/L		95.135	
In	115		ug/L		91.844	
K	39	51332.46	ug/L	102.66		50000
Mg	24	51977.7	ug/L	103.96		50000
Mg	25	52998.19	ug/L	106.00		50000
Mn	55	8.984413	ug/L	89.84		10
Na	23	54307.54	ug/L	108.62		50000
Ni	60	10.81138	ug/L	95.06		10
Ni	62	9.836471	ug/L	98.36		10
P	31	52973.47	ug/L	105.95		50000
Pb	208	8.729211	ug/L	87.29		10
Sb	121	10.25554	ug/L	102.56		10
Sb	123	10.25176	ug/L	102.52		10
Sc	45		ug/L		92.274	
Se	82	8.660605	mg/L	86.61		10
Tl	205	8.617827	ug/L	86.21		10
V	51	13.39856	ug/L	101.35		10
Zn	64	13.09263	ug/L	90.28		10
Zn	66	9.53987	ug/L	95.40		10
Zn	68	9.227265	ug/L	92.27		10

Sample ID: 113689.01
Sample Date/Time: Friday, September 07, 2012 04:59:16
Autosampler Position: 92
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01.49161

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6139.408	ug/L	
Be	9	0.000444	7.333	ug/L	0.009
B	10	54.870989	4675.249	ug/L	0.372
B	11	59.108675	23704.113	ug/L	1.007
C	12		743896.528	ug/L	
Na	23	21621.931979	172757361.696	ug/L	87.110
Mg	24	11389.736477	61984213.219	ug/L	102.668
Mg	25	11441.738229	8607774.662	ug/L	221.739
Al	27	109.752307	916825.908	ug/L	2.775
Si	28		29121370.510	ug/L	
P	31	44.303300	35931.184	ug/L	2.137
S	32		115618686.823	ug/L	
Cl	35		11584398.956	ug/L	
K	39	3642.747849	50028802.498	ug/L	6.070
Ca	44	33440.702207	12829025.092	ug/L	144.430
Sc	45		239935.963	ug/L	
Ti	47	7.402898	8504.070	ug/L	0.475
Ti	48	29.046409	313437.595	ug/L	0.068
V	51	0.420249	44022.103	ug/L	0.051
ClO	51		45653.472	ug/L	
Cr	52	0.112883	13143.285	ug/L	0.003
Cr	53	0.540165	13410.685	ug/L	0.043
Fe	54	493.533972	567094.490	ug/L	2.639
Mn	55	495.364303	9096860.986	ug/L	5.218
Fe	56	520.478174	13095189.387	ug/L	7.799
Fe	57	584.493787	230163.702	ug/L	3.143
Co	59	0.205683	3578.074	ug/L	0.014
Ni	60	1.135735	3419.344	ug/L	0.023
Ni	62	0.487668	276.674	ug/L	0.003
Cu	63	0.841275	6829.301	ug/L	0.050
Zn	64	4.055536	13574.364	ug/L	0.033
Cu	65	0.797324	2763.781	ug/L	0.008
Zn	66	3.362604	6753.575	ug/L	0.024
Zn	68	3.828847	5480.374	ug/L	0.181
Ge	72		183986.264	ug/L	
As	75	17.707190	31165.774	ug/L	0.209
Se	74	98.366248	12206.660	mg/L	95.208
ArCl	77		1046.737	ug/L	
Br	79		26858.919	ug/L	

Br	81		55374.186	ug/L	
Y	89		496884.283	ug/L	
Mo	95	2.191769	10062.333	ug/L	0.030
Rh	103		437862.017	ug/L	
Ag	107	-0.034051	833.713	ug/L	0.006
Ag	109	-0.035117	791.376	ug/L	0.007
Cd	111	0.020967	155.336	ug/L	0.008
Cd	114	0.025166	370.678	ug/L	0.005
In	115		560920.276	ug/L	
Sb	121	0.124076	1395.454	ug/L	0.002
Sb	123	0.122907	1066.601	ug/L	0.002
Ba	137	18.074395	89067.409	ug/L	0.099
Ba	138	17.940567	568176.441	ug/L	0.104
Tb	159		624250.776	ug/L	
Ho	165		590136.459	ug/L	
Hg	200	0.016956	56.334	ug/L	0.007
Hg	202	0.010107	56.001	ug/L	0.003
Tl	205	0.000067	927.390	ug/L	0.004
Pb	208	0.178385	7206.184	ug/L	0.001
Bi	209		444558.421	ug/L	
Se	77	0.071499	988.054	mg/L	0.215
Se	78	-2.983583	18391.144	mg/L	0.938
Se	82	0.440141	90.116	mg/L	0.088

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		108.129
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	91.752
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	89.106
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	91.104
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.02
Sample Date/Time: Friday, September 07, 2012 05:05:48
Autosampler Position: 93
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.02.49162

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6104.717	ug/L	
Be	9	-0.004507	5.667	ug/L	0.001
B	10	28.805045	2480.030	ug/L	2.029
B	11	31.370654	12676.960	ug/L	0.360
C	12		757360.784	ug/L	
Na	23	26015.523904	204414076.337	ug/L	564.220
Mg	24	13885.429023	74307327.827	ug/L	326.911
Mg	25	14002.053857	10358064.780	ug/L	81.239
Al	27	8.683637	79373.016	ug/L	0.281
Si	28		28226611.343	ug/L	
P	31	21.868052	24074.404	ug/L	5.034
S	32		110486818.143	ug/L	
Cl	35		12485489.197	ug/L	
K	39	5733.044825	76873023.767	ug/L	114.539
Ca	44	29356.107537	11080829.867	ug/L	640.781
Sc	45		235960.364	ug/L	
Ti	47	0.671204	1670.170	ug/L	0.043
Ti	48	20.989129	221862.063	ug/L	4.170
V	51	0.318225	41872.294	ug/L	0.005
ClO	51		43659.021	ug/L	
Cr	52	-0.092246	10577.992	ug/L	0.018
Cr	53	0.742660	13485.131	ug/L	0.211
Fe	54	2394.204595	2440841.856	ug/L	10.569
Mn	55	591.272798	10674809.904	ug/L	5.408
Fe	56	2333.419696	43333225.033	ug/L	3.841
Fe	57	2348.402878	870889.272	ug/L	29.013
Co	59	0.208351	3556.398	ug/L	0.002
Ni	60	0.841403	2513.373	ug/L	0.019
Ni	62	0.249136	169.337	ug/L	0.005
Cu	63	0.325317	3270.954	ug/L	0.002
Zn	64	2.735763	9301.520	ug/L	0.040
Cu	65	0.260232	974.062	ug/L	0.001
Zn	66	1.990180	4137.316	ug/L	0.030
Zn	68	2.953807	4257.373	ug/L	0.047
Ge	72		182500.405	ug/L	
As	75	6.751497	11601.220	ug/L	0.067
Se	74	40.328557	14134.015	mg/L	162.252
ArCl	77		1100.411	ug/L	
Br	79		31181.786	ug/L	

Br	81		58695.485	ug/L	
Y	89		490824.546	ug/L	
Mo	95	1.061198	4855.678	ug/L	0.007
Rh	103		427798.276	ug/L	
Ag	107	-0.049673	633.362	ug/L	0.003
Ag	109	-0.053456	565.690	ug/L	0.004
Cd	111	0.022817	159.670	ug/L	0.001
Cd	114	0.025814	372.345	ug/L	0.000
In	115		556660.048	ug/L	
Sb	121	0.128313	1428.460	ug/L	0.004
Sb	123	0.127273	1092.944	ug/L	0.004
Ba	137	35.162726	171885.103	ug/L	0.441
Ba	138	35.187233	1105507.354	ug/L	0.573
Tb	159		620431.719	ug/L	
Ho	165		586136.667	ug/L	
Hg	200	-0.000809	21.667	ug/L	0.001
Hg	202	-0.001123	27.334	ug/L	0.000
Tl	205	-0.001396	885.052	ug/L	0.004
Pb	208	0.056327	3052.566	ug/L	0.003
Bi	209		436788.695	ug/L	
Se	77	1.009923	1128.070	mg/L	0.101
Se	78	-3.360240	18218.307	mg/L	0.573
Se	82	0.422025	86.324	mg/L	0.037

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		106.337
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 91.011
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 88.429
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 90.486
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.03
Sample Date/Time: Friday, September 07, 2012 05:12:19
Autosampler Position: 94
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.03.49163

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5951.281	ug/L	
Be	9	0.003863	8.667	ug/L	0.005
B	10	218.593464	18641.614	ug/L	5.319
B	11	237.001422	95300.551	ug/L	1.072
C	12		1215893.449	ug/L	
Na	23	S	S	ug/L	S
Mg	24	30328.119627	169037321.657	ug/L	635.374
Mg	25	30564.692460	23550351.708	ug/L	261.826
Al	27	22.271047	198044.345	ug/L	3.474
Si	28		48412218.857	ug/L	
P	31	228.635284	133047.013	ug/L	12.709
S	32		106663855.317	ug/L	
Cl	35		14512342.019	ug/L	
K	39	11593.264729	160900664.398	ug/L	52.653
Ca	44	47753.348421	18749409.355	ug/L	0.338
Sc	45		245783.846	ug/L	
Ti	47	2.714667	3855.189	ug/L	0.008
Ti	48	55.154356	612147.164	ug/L	3.921
V	51	0.583127	47466.069	ug/L	0.027
ClO	51		49044.428	ug/L	
Cr	52	0.251618	15115.524	ug/L	0.025
Cr	53	1.082839	14565.137	ug/L	0.099
Fe	54	10280.245268	10680236.640	ug/L	138.817
Mn	55	1467.732886	27568536.879	ug/L	14.585
Fe	56	10282.303491	184208087.728	ug/L	125.283
Fe	57	11661.931166	4451443.051	ug/L	278.086
Co	59	2.326297	33837.531	ug/L	0.056
Ni	60	8.989890	27118.662	ug/L	0.242
Ni	62	8.217971	3751.478	ug/L	0.059
Cu	63	1.643447	12578.822	ug/L	0.035
Zn	64	1.627896	6149.207	ug/L	0.005
Cu	65	0.283721	1094.077	ug/L	0.000
Zn	66	1.133209	2679.755	ug/L	0.048
Zn	68	3.757052	5517.396	ug/L	0.127
Ge	72		171825.970	ug/L	
As	75	20.365791	33522.885	ug/L	0.064
Se	74	220.559290	7433.186	mg/L	32.176
ArCl	77		1226.428	ug/L	
Br	79		418009.366	ug/L	

Br	81		473684.283	ug/L	
Y	89		467849.368	ug/L	
Mo	95	13.955324	59623.821	ug/L	0.175
Rh	103		395398.295	ug/L	
Ag	107	-0.060258	466.350	ug/L	0.004
Ag	109	-0.060751	444.349	ug/L	0.001
Cd	111	0.063372	261.340	ug/L	0.010
Cd	114	0.065959	605.693	ug/L	0.002
In	115		516787.108	ug/L	
Sb	121	0.125421	1298.439	ug/L	0.005
Sb	123	0.125804	1003.909	ug/L	0.003
Ba	137	110.355094	500684.805	ug/L	1.108
Ba	138	118.454760	3454399.664	ug/L	1.709
Tb	159		583529.511	ug/L	
Ho	165		549844.854	ug/L	
Hg	200	0.013193	45.667	ug/L	0.002
Hg	202	0.008785	49.001	ug/L	0.003
Tl	205	-0.001710	822.379	ug/L	0.005
Pb	208	0.091734	3979.715	ug/L	0.004
Bi	209		388500.569	ug/L	
Se	77	1.689176	1229.417	mg/L	0.834
Se	78	-3.649629	18085.514	mg/L	0.430
Se	82	4.516018	943.260	mg/L	0.240

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		110.764
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	85.688
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	82.095
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	84.884
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.04
Sample Date/Time: Friday, September 07, 2012 05:18:51
Autosampler Position: 95
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.04.49164

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5905.919	ug/L	
Be	9	-0.011260	3.667	ug/L	0.002
B	10	10.445634	1026.402	ug/L	0.616
B	11	11.690485	5329.949	ug/L	0.629
C	12		793676.083	ug/L	
Na	23	8698.790873	70983328.038	ug/L	186.564
Mg	24	3784.056443	21028344.015	ug/L	85.281
Mg	25	3904.693379	2999816.645	ug/L	13.149
Al	27	0.801267	15822.004	ug/L	0.041
Si	28		31121249.085	ug/L	
P	31	-3.383946	11872.509	ug/L	5.395
S	32		115331366.026	ug/L	
Cl	35		10732337.324	ug/L	
K	39	1854.629871	26498814.439	ug/L	97.945
Ca	44	13249.093333	5214691.349	ug/L	441.430
Sc	45		245051.117	ug/L	
Ti	47	0.458120	1514.141	ug/L	0.074
Ti	48	9.661477	104528.747	ug/L	1.255
V	51	0.194258	41692.174	ug/L	0.045
ClO	51		43294.652	ug/L	
Cr	52	0.060521	12798.830	ug/L	0.032
Cr	53	0.295922	13325.560	ug/L	0.022
Fe	54	-2.904912	68343.646	ug/L	0.727
Mn	55	-0.882515	4676.249	ug/L	0.007
Fe	56	-21.478795	3920122.380	ug/L	3.727
Fe	57	19.758242	20749.059	ug/L	0.075
Co	59	0.070375	1735.516	ug/L	0.003
Ni	60	3.832475	11575.483	ug/L	0.156
Ni	62	3.588141	1669.170	ug/L	0.098
Cu	63	0.338438	3488.037	ug/L	0.000
Zn	64	2.479730	8842.700	ug/L	0.080
Cu	65	0.393520	1460.799	ug/L	0.013
Zn	66	2.104397	4512.165	ug/L	0.075
Zn	68	2.344904	3601.749	ug/L	0.062
Ge	72		185297.397	ug/L	
As	75	0.175705	7.865	ug/L	0.018
Se	74	70.532430	13316.343	mg/L	38.310
ArCl	77		974.729	ug/L	
Br	79		19379.845	ug/L	

Br	81		47467.085	ug/L	
Y	89		496345.989	ug/L	
Mo	95	0.575476	2693.426	ug/L	0.004
Rh	103		445557.729	ug/L	
Ag	107	-0.053089	600.693	ug/L	0.004
Ag	109	-0.054860	558.023	ug/L	0.003
Cd	111	0.010252	124.002	ug/L	0.003
Cd	114	0.011467	276.674	ug/L	0.001
In	115		565924.476	ug/L	
Sb	121	0.025096	368.678	ug/L	0.000
Sb	123	0.021108	255.201	ug/L	0.004
Ba	137	3.087590	15406.199	ug/L	0.092
Ba	138	3.110294	99655.656	ug/L	0.057
Tb	159		628576.602	ug/L	
Ho	165		595417.899	ug/L	
Hg	200	0.002268	28.000	ug/L	0.002
Hg	202	0.000901	33.000	ug/L	0.002
Tl	205	-0.003349	849.382	ug/L	0.005
Pb	208	-0.004055	1038.700	ug/L	0.000
Bi	209		440218.020	ug/L	
Se	77	-0.259181	938.715	mg/L	0.379
Se	78	-3.505108	18151.831	mg/L	0.395
Se	82	0.435163	89.074	mg/L	0.362

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		110.434
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 92.406
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 89.901
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 91.919
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.05
Sample Date/Time: Friday, September 07, 2012 05:51:03
Autosampler Position: 96
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.05.49169

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6316.861	ug/L	
Be	9	-0.007821	4.667	ug/L	0.009
B	10	9.318177	900.387	ug/L	0.887
B	11	9.631713	4361.424	ug/L	0.750
C	12		782461.100	ug/L	
Na	23	8818.763810	69600981.564	ug/L	158.185
Mg	24	4127.732413	22184623.438	ug/L	94.217
Mg	25	4241.017407	3150948.252	ug/L	69.927
Al	27	2.925696	32661.830	ug/L	0.097
Si	28		31105319.008	ug/L	
P	31	-6.522637	9889.716	ug/L	1.208
S	32		101839260.267	ug/L	
Cl	35		10527882.969	ug/L	
K	39	1918.739062	26481190.329	ug/L	80.455
Ca	44	16072.707935	6110524.627	ug/L	302.920
Sc	45		237017.194	ug/L	
Ti	47	0.487570	1493.471	ug/L	0.097
Ti	48	13.070191	137623.503	ug/L	0.696
V	51	0.284075	41579.631	ug/L	0.010
ClO	51		43187.782	ug/L	
Cr	52	0.036186	12097.547	ug/L	0.040
Cr	53	0.698737	13481.459	ug/L	0.010
Fe	54	24.804673	93635.276	ug/L	5.261
Mn	55	9.370598	190061.155	ug/L	0.276
Fe	56	6.149575	4256554.591	ug/L	10.257
Fe	57	52.753231	32163.374	ug/L	4.706
Co	59	0.021350	1006.066	ug/L	0.001
Ni	60	1.082906	3223.937	ug/L	0.036
Ni	62	0.788116	403.013	ug/L	0.067
Cu	63	0.242357	2727.770	ug/L	0.017
Zn	64	2.144440	7518.433	ug/L	0.099
Cu	65	0.301331	1112.413	ug/L	0.002
Zn	66	1.753785	3721.799	ug/L	0.035
Zn	68	2.040870	3087.222	ug/L	0.110
Ge	72		187125.907	ug/L	
As	75	0.204572	59.100	ug/L	0.038
Se	74	104.843356	12172.621	mg/L	85.484
ArCl	77		1120.747	ug/L	
Br	79		17467.987	ug/L	

Br	81		44502.805	ug/L	
Y	89		495763.239	ug/L	
Mo	95	0.226259	1095.410	ug/L	0.011
Rh	103		441113.160	ug/L	
Ag	107	0.295179	4972.556	ug/L	0.190
Ag	109	0.284781	4669.718	ug/L	0.191
Cd	111	0.004493	106.335	ug/L	0.002
Cd	114	0.006570	241.672	ug/L	0.003
In	115		565649.310	ug/L	
Sb	121	0.051715	647.696	ug/L	0.002
Sb	123	0.053523	516.257	ug/L	0.003
Ba	137	2.514996	12555.123	ug/L	0.074
Ba	138	2.546628	81606.944	ug/L	0.074
Tb	159		625158.015	ug/L	
Ho	165		594306.247	ug/L	
Hg	200	0.006724	36.667	ug/L	0.002
Hg	202	0.007154	49.001	ug/L	0.004
Tl	205	-0.000999	906.388	ug/L	0.004
Pb	208	0.012046	1584.738	ug/L	0.002
Bi	209		452282.646	ug/L	
Se	77	-0.089371	964.051	mg/L	0.670
Se	78	-3.262403	18263.201	mg/L	0.140
Se	82	0.250975	50.521	mg/L	0.275

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		106.814
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 93.318
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 89.857
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.748
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.06
Sample Date/Time: Friday, September 07, 2012 05:57:35
Autosampler Position: 97
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.06.49170

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6670.446	ug/L	
Be	9	0.057073	28.000	ug/L	0.003
B	10	17.361157	1729.182	ug/L	0.300
B	11	17.891238	8375.941	ug/L	0.116
C	12		832959.638	ug/L	
Na	23	14503.585722	127100712.554	ug/L	76.601
Mg	24	4051.025046	24177584.414	ug/L	35.586
Mg	25	4164.342044	3435609.342	ug/L	1.447
Al	27	1147.127113	10419338.572	ug/L	1.070
Si	28		38806619.878	ug/L	
P	31	49.130453	42098.139	ug/L	1.842
S	32		108084497.035	ug/L	
Cl	35		11183451.076	ug/L	
K	39	2214.446417	33777957.862	ug/L	10.054
Ca	44	25523.877453	10749376.537	ug/L	576.948
Sc	45		263146.203	ug/L	
Ti	47	64.804739	72944.976	ug/L	1.557
Ti	48	77.406032	921668.173	ug/L	6.033
V	51	3.088466	89836.936	ug/L	0.040
ClO	51		92351.973	ug/L	
Cr	52	3.045818	51845.444	ug/L	0.001
Cr	53	2.740981	18304.259	ug/L	0.132
Fe	54	2378.477691	2704647.399	ug/L	36.623
Mn	55	266.662816	5381468.305	ug/L	3.346
Fe	56	2376.718956	49136117.174	ug/L	30.893
Fe	57	2403.826196	993838.342	ug/L	16.461
Co	59	1.089295	17387.788	ug/L	0.011
Ni	60	3.311576	10756.467	ug/L	0.014
Ni	62	3.183678	1598.490	ug/L	0.055
Cu	63	2.169544	17388.789	ug/L	0.030
Zn	64	6.681696	23871.704	ug/L	0.058
Cu	65	2.204629	8127.713	ug/L	0.001
Zn	66	5.850465	12470.672	ug/L	0.011
Zn	68	6.054751	9227.773	ug/L	0.022
Ge	72		189061.762	ug/L	
As	75	6.131856	10887.197	ug/L	0.008
Se	74	-32.803867	17293.177	mg/L	90.452
ArCl	77		1251.099	ug/L	
Br	79		54831.218	ug/L	

Br	81		86456.152	ug/L	
Y	89		532653.398	ug/L	
Mo	95	1.028529	4876.356	ug/L	0.014
Rh	103		442583.779	ug/L	
Ag	107	-0.036375	821.379	ug/L	0.004
Ag	109	-0.035645	801.377	ug/L	0.006
Cd	111	0.032347	193.671	ug/L	0.001
Cd	114	0.031403	423.014	ug/L	0.003
In	115		572423.836	ug/L	
Sb	121	0.068518	834.047	ug/L	0.002
Sb	123	0.067776	638.842	ug/L	0.003
Ba	137	10.362996	52144.641	ug/L	0.045
Ba	138	10.302073	333111.862	ug/L	0.054
Tb	159		641814.573	ug/L	
Ho	165		607803.484	ug/L	
Hg	200	0.003448	31.000	ug/L	0.000
Hg	202	0.001817	36.000	ug/L	0.001
Tl	205	0.018735	1428.793	ug/L	0.005
Pb	208	0.885806	32085.552	ug/L	0.012
Bi	209		437314.198	ug/L	
Se	77	1.671298	1226.749	mg/L	0.303
Se	78	-3.811069	18011.433	mg/L	0.864
Se	82	0.871374	180.380	mg/L	0.176

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		118.589
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 94.283
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 90.934
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 93.831
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.07
Sample Date/Time: Friday, September 07, 2012 06:04:07
Autosampler Position: 98
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.07.49171

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6935.978	ug/L	
Be	9	-0.010062	4.000	ug/L	0.003
B	10	9.542872	933.391	ug/L	0.109
B	11	9.922535	4542.847	ug/L	0.155
C	12		735953.135	ug/L	
Na	23	16889.147383	135267341.013	ug/L	478.405
Mg	24	4540.095612	24768066.989	ug/L	85.008
Mg	25	4636.655992	3496039.562	ug/L	136.741
Al	27	3.977067	41867.031	ug/L	0.166
Si	28		22897524.889	ug/L	
P	31	6.532536	16693.662	ug/L	2.270
S	32		108746931.095	ug/L	
Cl	35		10765570.634	ug/L	
K	39	2603.231967	36128460.991	ug/L	16.300
Ca	44	22786.414101	8775728.276	ug/L	548.316
Sc	45		240589.685	ug/L	
Ti	47	0.091212	1115.413	ug/L	0.010
Ti	48	15.222582	163317.938	ug/L	0.246
V	51	0.794090	49452.299	ug/L	0.093
ClO	51		51270.359	ug/L	
Cr	52	-0.065693	11089.852	ug/L	0.039
Cr	53	1.000273	14134.123	ug/L	0.045
Fe	54	38.872727	109299.168	ug/L	0.794
Mn	55	28.547664	545058.925	ug/L	1.101
Fe	56	24.454753	4634795.431	ug/L	5.114
Fe	57	82.348702	43672.343	ug/L	4.064
Co	59	0.050073	1421.125	ug/L	0.002
Ni	60	0.598945	1847.873	ug/L	0.026
Ni	62	0.095966	105.335	ug/L	0.010
Cu	63	0.323753	3322.307	ug/L	0.025
Zn	64	1.481236	5558.208	ug/L	0.056
Cu	65	0.311333	1161.419	ug/L	0.022
Zn	66	1.107446	2574.390	ug/L	0.059
Zn	68	1.411987	2303.982	ug/L	0.030
Ge	72		189313.582	ug/L	
As	75	6.926322	12353.632	ug/L	0.162
Se	74	86.865533	13026.218	mg/L	102.487
ArCl	77		1332.778	ug/L	
Br	79		33259.429	ug/L	

Br	81		61378.116	ug/L	
Y	89		508507.244	ug/L	
Mo	95	2.712608	12804.806	ug/L	0.034
Rh	103		448812.781	ug/L	
Ag	107	-0.049255	654.697	ug/L	0.002
Ag	109	-0.053661	577.358	ug/L	0.006
Cd	111	0.025067	170.670	ug/L	0.005
Cd	114	0.022793	360.011	ug/L	0.002
In	115		570614.123	ug/L	
Sb	121	0.067696	822.712	ug/L	0.001
Sb	123	0.069857	653.679	ug/L	0.004
Ba	137	6.190065	31077.004	ug/L	0.029
Ba	138	6.253698	201705.294	ug/L	0.001
Tb	159		637164.860	ug/L	
Ho	165		604418.437	ug/L	
Hg	200	0.112751	248.673	ug/L	0.012
Hg	202	0.086647	256.340	ug/L	0.002
Tl	205	-0.004004	847.382	ug/L	0.004
Pb	208	0.016439	1765.085	ug/L	0.001
Bi	209		453557.599	ug/L	
Se	77	1.403175	1186.744	mg/L	0.784
Se	78	-4.041700	17905.604	mg/L	0.226
Se	82	0.557292	114.638	mg/L	0.011

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		108.423
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 94.409
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 90.646
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 93.309
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.08
Sample Date/Time: Friday, September 07, 2012 06:10:39
Autosampler Position: 99
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08.49172

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6625.080	ug/L	
Be	9	0.026728	17.000	ug/L	0.013
B	10	143.243764	12930.989	ug/L	7.750
B	11	152.321060	64850.481	ug/L	2.142
C	12		904945.261	ug/L	
Na	23	77385.756889	667774653.621	ug/L	2400.686
Mg	24	25458.468692	149643337.300	ug/L	582.373
Mg	25	25860.457948	21011441.617	ug/L	634.243
Al	27	48.907164	446663.456	ug/L	1.211
Si	28		40590788.559	ug/L	
P	31	184.742995	116155.565	ug/L	5.713
S	32		108331912.166	ug/L	
Cl	35		15111742.041	ug/L	
K	39	8888.332900	130293888.575	ug/L	348.327
Ca	44	54672.280048	22634426.031	ug/L	152.693
Sc	45		259242.918	ug/L	
Ti	47	5.039115	6603.464	ug/L	0.056
Ti	48	66.307050	776635.204	ug/L	4.134
V	51	0.444265	47919.107	ug/L	0.094
ClO	51		49562.568	ug/L	
Cr	52	0.096833	13993.916	ug/L	0.033
Cr	53	0.830359	14953.772	ug/L	0.174
Fe	54	6556.788107	7211491.404	ug/L	101.569
Mn	55	312.978675	6216473.644	ug/L	8.657
Fe	56	6584.621488	126025601.411	ug/L	177.656
Fe	57	7500.532168	3023311.149	ug/L	380.672
Co	59	0.135731	2815.798	ug/L	0.008
Ni	60	4.108072	13119.925	ug/L	0.085
Ni	62	3.020917	1497.472	ug/L	0.041
Cu	63	1.578656	12787.449	ug/L	0.067
Zn	64	24.635241	83986.318	ug/L	0.868
Cu	65	0.937877	3487.370	ug/L	0.009
Zn	66	24.434703	49524.703	ug/L	0.942
Zn	68	25.608455	36905.462	ug/L	0.827
Ge	72		182885.389	ug/L	
As	75	40.532090	71298.722	ug/L	1.265
Se	74	54.980428	13678.852	mg/L	15.443
ArCl	77		1413.124	ug/L	
Br	79		156227.736	ug/L	

Br	81		193447.600	ug/L	
Y	89		498833.885	ug/L	
Mo	95	2.781904	12684.971	ug/L	0.019
Rh	103		426243.949	ug/L	
Ag	107	-0.056565	546.022	ug/L	0.005
Ag	109	-0.057876	510.686	ug/L	0.008
Cd	111	0.055343	257.006	ug/L	0.003
Cd	114	0.062834	629.695	ug/L	0.005
In	115		555443.830	ug/L	
Sb	121	0.065204	775.374	ug/L	0.001
Sb	123	0.066176	607.712	ug/L	0.004
Ba	137	85.000824	414382.847	ug/L	2.345
Ba	138	91.860001	2878514.816	ug/L	2.296
Tb	159		621797.621	ug/L	
Ho	165		586720.477	ug/L	
Hg	200	0.057420	134.336	ug/L	0.002
Hg	202	0.036762	123.002	ug/L	0.003
Tl	205	-0.006592	758.373	ug/L	0.003
Pb	208	0.255829	9770.154	ug/L	0.005
Bi	209		433484.102	ug/L	
Se	77	2.600810	1365.436	mg/L	0.051
Se	78	-3.085149	18344.538	mg/L	0.602
Se	82	1.762128	366.828	mg/L	0.049

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		116.830
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	91.203
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	88.236
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	90.577
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.08 MS
Sample Date/Time: Friday, September 07, 2012 06:17:12
Autosampler Position: 100
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08 MS.49173

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6447.620	ug/L	
Be	9	819.780470	277969.794	ug/L	5.048
B	10	131.259174	11602.515	ug/L	0.091
B	11	139.058197	57938.955	ug/L	0.978
C	12		1429397.852	ug/L	
Na	23	80783.541995	681656941.614	ug/L	287.247
Mg	24	33515.909928	192616249.779	ug/L	138.969
Mg	25	34277.984208	27231718.084	ug/L	176.928
Al	27	10399.408621	90882274.470	ug/L	17.631
Si	28		36820828.722	ug/L	
P	31	9374.967082	5063361.585	ug/L	129.106
S	32		115171743.361	ug/L	
Cl	35		17125263.630	ug/L	
K	39	17613.165976	251481901.142	ug/L	153.666
Ca	44	61396.988309	24841685.987	ug/L	428.180
Sc	45		253397.781	ug/L	
Ti	47	27.515180	30444.879	ug/L	0.487
Ti	48	74.495083	853806.117	ug/L	3.420
V	51	953.785091	14342929.233	ug/L	6.670
ClO	51		14797991.832	ug/L	
Cr	52	930.011396	11441266.304	ug/L	10.665
Cr	53	764.030408	1215435.846	ug/L	9.633
Fe	54	15315.530509	16368586.060	ug/L	301.021
Mn	55	1235.201674	23923314.564	ug/L	20.304
Fe	56	15698.934591	287631726.727	ug/L	186.888
Fe	57	17439.623453	6857133.326	ug/L	168.887
Co	59	876.468886	12858741.050	ug/L	12.078
Ni	60	843.954095	2616768.529	ug/L	4.208
Ni	62	767.347454	355020.632	ug/L	8.495
Cu	63	785.051638	5633775.574	ug/L	3.360
Zn	64	869.638317	2865610.124	ug/L	7.977
Cu	65	780.295459	2721255.091	ug/L	3.673
Zn	66	766.662349	1503182.274	ug/L	9.602
Zn	68	762.558583	1061321.404	ug/L	4.923
Ge	72		184087.843	ug/L	
As	75	1029.247996	1830184.725	ug/L	6.332
Se	74	-317.890170	26846.841	mg/L	58.268
ArCl	77		139769.659	ug/L	
Br	79		141717.976	ug/L	

Br	81		176993.315	ug/L	
Y	89		490950.138	ug/L	
Mo	95	1121.360047	5129537.939	ug/L	10.772
Rh	103		419040.437	ug/L	
Ag	107	775.305069	9544369.542	ug/L	3.899
Ag	109	763.359484	9063956.057	ug/L	14.190
Cd	111	1099.032307	3276295.111	ug/L	2.511
Cd	114	1079.538179	7469926.347	ug/L	6.022
In	115		551957.098	ug/L	
Sb	121	1097.595854	11240133.499	ug/L	2.721
Sb	123	1093.915459	8601270.672	ug/L	3.038
Ba	137	1150.779707	5576005.195	ug/L	8.792
Ba	138	1146.688797	35714526.514	ug/L	5.083
Tb	159		614453.758	ug/L	
Ho	165		578618.556	ug/L	
Hg	200	1.125672	2170.614	ug/L	0.015
Hg	202	1.086324	2731.104	ug/L	0.050
Tl	205	1082.055963	26180595.201	ug/L	27.566
Pb	208	1057.104164	35078743.594	ug/L	28.422
Bi	209		431918.651	ug/L	
Se	77	912.678468	137152.228	mg/L	9.160
Se	78	946.401400	454037.590	mg/L	1.964
Se	82	914.246680	191363.896	mg/L	1.087

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		114.196
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 91.803
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 87.682
Sb
Sb
Ba
Ba
Tb
> Ho 89.326
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113689.08 MSD
Sample Date/Time: Friday, September 07, 2012 06:23:44
Autosampler Position: 101
Sample Description: AqTot pre
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08 MSD.49174

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6119.392	ug/L	
Be	9	811.447645	267973.031	ug/L	24.282
B	10	128.081430	11030.799	ug/L	2.944
B	11	136.242020	55310.637	ug/L	0.892
C	12		1398494.237	ug/L	
Na	23	82333.922267	676741931.929	ug/L	455.872
Mg	24	34949.383836	195695273.001	ug/L	896.496
Mg	25	35481.325195	27459144.245	ug/L	170.257
Al	27	10721.128129	91261185.088	ug/L	188.164
Si	28		36197475.279	ug/L	
P	31	9837.354335	5173377.976	ug/L	422.161
S	32		115427139.625	ug/L	
Cl	35		16505961.530	ug/L	
K	39	18272.629625	254075346.841	ug/L	345.856
Ca	44	61561.891578	24262545.717	ug/L	428.959
Sc	45		246845.329	ug/L	
Ti	47	27.382274	29510.132	ug/L	1.146
Ti	48	73.476744	820136.414	ug/L	4.400
V	51	988.455241	14476620.263	ug/L	24.207
ClO	51		15037380.726	ug/L	
Cr	52	960.677180	11511627.128	ug/L	17.825
Cr	53	778.170498	1205633.883	ug/L	10.110
Fe	54	15312.954052	15945030.104	ug/L	195.936
Mn	55	1259.629905	23766622.765	ug/L	0.756
Fe	56	15787.483724	281745071.909	ug/L	148.784
Fe	57	17961.285721	6879475.815	ug/L	5.422
Co	59	899.774584	12858703.814	ug/L	13.375
Ni	60	867.871079	2621136.095	ug/L	13.066
Ni	62	786.953523	354623.218	ug/L	13.360
Cu	63	800.089118	5592894.486	ug/L	8.718
Zn	64	878.768523	2820525.021	ug/L	18.374
Cu	65	801.705711	2723331.024	ug/L	11.389
Zn	66	778.087836	1485796.301	ug/L	21.963
Zn	68	777.082330	1053406.716	ug/L	15.095
Ge	72		182859.471	ug/L	
As	75	1028.132322	1815840.308	ug/L	24.407
Se	74	-197.862231	22480.032	mg/L	55.762
ArCl	77		137877.056	ug/L	
Br	79		135414.893	ug/L	

Br	81		168632.558	ug/L	
Y	89		487642.638	ug/L	
Mo	95	1125.640599	5114796.310	ug/L	1.622
Rh	103		419984.458	ug/L	
Ag	107	768.691870	9371722.033	ug/L	4.915
Ag	109	775.441487	9120634.803	ug/L	20.379
Cd	111	1114.031893	3288038.014	ug/L	23.383
Cd	114	1082.133177	7413100.498	ug/L	28.925
In	115		546598.850	ug/L	
Sb	121	1110.725133	11261837.876	ug/L	21.444
Sb	123	1098.371661	8550542.075	ug/L	23.389
Ba	137	1157.551412	5553348.831	ug/L	19.601
Ba	138	1155.559844	35635679.329	ug/L	17.320
Tb	159		609782.790	ug/L	
Ho	165		579370.662	ug/L	
Hg	200	1.114673	2151.276	ug/L	0.029
Hg	202	1.114363	2804.794	ug/L	0.048
Tl	205	1079.881925	26164548.378	ug/L	22.951
Pb	208	1057.081217	35128721.024	ug/L	20.274
Bi	209		423251.826	ug/L	
Se	77	898.954227	135104.523	mg/L	0.064
Se	78	950.699728	456009.973	mg/L	13.870
Se	82	914.502469	191417.437	mg/L	13.173

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		111.243
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 91.190
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 86.831
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 89.442
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.09
Sample Date/Time: Friday, September 07, 2012 06:49:53
Autosampler Position: 105
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.09.49178

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5653.761	ug/L	
Be	9	-0.003476	6.000	ug/L	0.003
B	10	16.587649	1487.470	ug/L	0.939
B	11	17.900597	7516.181	ug/L	0.008
C	12		734107.894	ug/L	
Na	23	S	S	ug/L	S
Mg	24	19655.786149	105227461.830	ug/L	196.082
Mg	25	20266.686026	14995215.243	ug/L	226.140
Al	27	88.927534	732481.028	ug/L	0.637
Si	28		24775431.378	ug/L	
P	31	73.188411	49837.975	ug/L	2.278
S	32		115219630.160	ug/L	
Cl	35		18042780.983	ug/L	
K	39	5376.597060	72176005.447	ug/L	4.947
Ca	44	56683.337594	21363418.972	ug/L	404.284
Sc	45		236025.033	ug/L	
Ti	47	5.423081	6394.312	ug/L	0.019
Ti	48	71.493095	763185.885	ug/L	0.480
V	51	1.143016	53407.662	ug/L	0.028
ClO	51		55624.903	ug/L	
Cr	52	0.118581	12993.461	ug/L	0.011
Cr	53	2.831109	16551.223	ug/L	0.100
Fe	54	3175.424249	3215765.805	ug/L	0.019
Mn	55	439.661048	7944764.294	ug/L	2.559
Fe	56	3218.375173	58215060.692	ug/L	2.480
Fe	57	3247.963688	1199856.367	ug/L	31.329
Co	59	0.148313	2736.106	ug/L	0.007
Ni	60	1.755935	5155.847	ug/L	0.031
Ni	62	0.707427	367.011	ug/L	0.051
Cu	63	1.465657	10891.629	ug/L	0.022
Zn	64	5.510150	17815.576	ug/L	0.056
Cu	65	0.516115	1805.197	ug/L	0.011
Zn	66	4.803133	9273.487	ug/L	0.000
Zn	68	5.228487	7205.593	ug/L	0.049
Ge	72		175956.248	ug/L	
As	75	6.575910	10884.218	ug/L	0.165
Se	74	-10.621527	15337.170	mg/L	68.232
ArCl	77		1499.472	ug/L	
Br	79		64904.526	ug/L	

Br	81		95594.639	ug/L	
Y	89		487549.679	ug/L	
Mo	95	0.998591	4406.445	ug/L	0.025
Rh	103		415919.347	ug/L	
Ag	107	0.273029	4512.865	ug/L	0.096
Ag	109	0.263501	4241.399	ug/L	0.101
Cd	111	0.063896	276.007	ug/L	0.002
Cd	114	0.065446	632.695	ug/L	0.006
In	115		542493.776	ug/L	
Sb	121	0.072095	826.379	ug/L	0.001
Sb	123	0.072315	640.218	ug/L	0.006
Ba	137	20.526492	97815.747	ug/L	0.117
Ba	138	20.495950	627633.437	ug/L	0.478
Tb	159		614585.880	ug/L	
Ho	165		580080.620	ug/L	
Hg	200	0.020739	62.668	ug/L	0.004
Hg	202	0.014473	66.001	ug/L	0.005
Tl	205	-0.008892	694.034	ug/L	0.005
Pb	208	0.393442	14240.540	ug/L	0.000
Bi	209		450304.471	ug/L	
Se	77	2.734876	1385.439	mg/L	0.468
Se	78	-3.928952	17957.340	mg/L	0.107
Se	82	0.781396	161.546	mg/L	0.032

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		106.366
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 87.748
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 86.179
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 89.551
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113689.10
Sample Date/Time: Friday, September 07, 2012 07:22:06
Autosampler Position: 106
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.10.49183

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5816.527	ug/L	
Be	9	0.003424	8.000	ug/L	0.008
B	10	19.240866	1657.168	ug/L	1.714
B	11	21.082598	8504.728	ug/L	0.653
C	12		762161.555	ug/L	
Na	23	S	S	ug/L	S
Mg	24	17140.615258	89333803.759	ug/L	376.237
Mg	25	17196.400382	12387970.795	ug/L	454.598
Al	27	30.093921	246844.853	ug/L	1.663
Si	28		24098165.321	ug/L	
P	31	23.634104	24324.962	ug/L	0.669
S	32		111636101.331	ug/L	
Cl	35		16963772.489	ug/L	
K	39	5386.115270	70381176.360	ug/L	180.274
Ca	44	46252.237254	16978544.267	ug/L	1262.031
Sc	45		229875.447	ug/L	
Ti	47	1.420701	2352.661	ug/L	0.010
Ti	48	35.711714	369996.344	ug/L	0.774
V	51	1.052134	50768.233	ug/L	0.040
ClO	51		52624.756	ug/L	
Cr	52	0.004224	11378.376	ug/L	0.015
Cr	53	2.834634	16117.770	ug/L	0.273
Fe	54	889.098702	924572.674	ug/L	35.874
Mn	55	577.099572	10145026.836	ug/L	21.093
Fe	56	996.535662	20324373.782	ug/L	51.263
Fe	57	1064.258952	391124.973	ug/L	31.101
Co	59	2.135523	29096.781	ug/L	0.080
Ni	60	2.739549	7782.741	ug/L	0.107
Ni	62	1.669742	760.039	ug/L	0.158
Cu	63	1.344361	9811.391	ug/L	0.079
Zn	64	3.022068	9912.975	ug/L	0.094
Cu	65	0.349854	1231.762	ug/L	0.014
Zn	66	2.320515	4614.550	ug/L	0.119
Zn	68	3.300258	4582.534	ug/L	0.119
Ge	72		178886.958	ug/L	
As	75	3.396343	5573.192	ug/L	0.055
Se	74	12.967838	14805.390	mg/L	56.349
ArCl	77		1419.458	ug/L	
Br	79		57066.686	ug/L	

Br	81		86960.313	ug/L	
Y	89		486680.899	ug/L	
Mo	95	1.114056	4994.088	ug/L	0.012
Rh	103		417269.458	ug/L	
Ag	107	0.201552	3641.164	ug/L	0.133
Ag	109	0.197269	3462.419	ug/L	0.130
Cd	111	0.039646	205.004	ug/L	0.004
Cd	114	0.037842	444.682	ug/L	0.002
In	115		542392.974	ug/L	
Sb	121	0.072100	826.379	ug/L	0.000
Sb	123	0.071963	637.260	ug/L	0.006
Ba	137	36.762396	175073.788	ug/L	0.751
Ba	138	36.764537	1125371.302	ug/L	0.582
Tb	159		614437.471	ug/L	
Ho	165		581378.955	ug/L	
Hg	200	0.042754	105.002	ug/L	0.001
Hg	202	0.025872	94.668	ug/L	0.003
Tl	205	-0.006163	761.706	ug/L	0.003
Pb	208	0.128402	5431.701	ug/L	0.002
Bi	209		420805.055	ug/L	
Se	77	3.092385	1438.781	mg/L	0.367
Se	78	-4.821497	17547.776	mg/L	0.283
Se	82	0.732722	151.358	mg/L	0.084

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.595
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	89.209
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	86.163
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	89.752
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.11
Sample Date/Time: Friday, September 07, 2012 07:28:38
Autosampler Position: 107
Sample Description: AqTot
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.11.49184

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5847.214	ug/L	
Be	9	-0.000895	7.333	ug/L	0.011
B	10	209.435027	18486.972	ug/L	6.399
B	11	233.048365	96963.315	ug/L	8.205
C	12		1180929.981	ug/L	
Na	23	S	S	ug/L	S
Mg	24	24457.997848	141048754.805	ug/L	534.349
Mg	25	24313.883366	19382236.169	ug/L	125.682
Al	27	1.079410	18858.148	ug/L	0.167
Si	28		44919965.446	ug/L	
P	31	33.544916	32257.015	ug/L	0.369
S	32		108020647.969	ug/L	
Cl	35		15558749.015	ug/L	
K	39	5999.990991	86649902.392	ug/L	26.250
Ca	44	63959.655690	25965463.495	ug/L	89.812
Sc	45		254272.281	ug/L	
Ti	47	1.220072	2387.671	ug/L	0.047
Ti	48	78.302566	900869.074	ug/L	4.669
V	51	0.496001	47797.132	ug/L	0.009
ClO	51		50200.091	ug/L	
Cr	52	0.038433	13010.781	ug/L	0.012
Cr	53	1.133000	15148.429	ug/L	0.007
Fe	54	4865.118991	5268497.918	ug/L	145.537
Mn	55	522.809028	10174021.211	ug/L	10.655
Fe	56	4870.769265	92627560.597	ug/L	133.393
Fe	57	4783.214337	1897264.676	ug/L	46.017
Co	59	0.104124	2297.980	ug/L	0.001
Ni	60	9.652981	30123.461	ug/L	0.063
Ni	62	8.278885	3909.547	ug/L	0.291
Cu	63	1.265918	10296.933	ug/L	0.033
Zn	64	1.103082	4626.755	ug/L	0.059
Cu	65	0.148507	658.697	ug/L	0.006
Zn	66	0.702164	1925.223	ug/L	0.015
Zn	68	2.136059	3446.354	ug/L	0.065
Ge	72		174285.454	ug/L	
As	75	15.344458	25547.899	ug/L	0.236
Se	74	65.521207	12687.366	mg/L	61.641
ArCl	77		1373.117	ug/L	
Br	79		580239.137	ug/L	

Br	81		647904.773	ug/L	
Y	89		482491.021	ug/L	
Mo	95	2.033855	8849.394	ug/L	0.026
Rh	103		409923.870	ug/L	
Ag	107	-0.042612	693.033	ug/L	0.005
Ag	109	-0.045217	638.362	ug/L	0.002
Cd	111	0.010449	117.669	ug/L	0.002
Cd	114	0.017939	304.675	ug/L	0.002
In	115		534526.151	ug/L	
Sb	121	0.093633	1027.735	ug/L	0.002
Sb	123	0.094182	797.607	ug/L	0.001
Ba	137	55.292719	259519.176	ug/L	0.045
Ba	138	54.487154	1643730.377	ug/L	0.121
Tb	159		605478.838	ug/L	
Ho	165		573194.041	ug/L	
Hg	200	0.011442	44.334	ug/L	0.000
Hg	202	0.005064	42.001	ug/L	0.001
Tl	205	-0.012814	592.692	ug/L	0.004
Pb	208	-0.007824	876.025	ug/L	0.000
Bi	209		413093.055	ug/L	
Se	77	2.556122	1358.768	mg/L	0.164
Se	78	-3.454651	18174.984	mg/L	0.037
Se	82	6.855709	1432.993	mg/L	0.383

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		114.590
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 86.915
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 84.913
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 88.488
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

for 113609

Sample ID: BLK
Sample Date/Time: Friday, September 07, 2012 10:40:49
Autosampler Position: 124
Sample Description: ~~8/31/12~~ 9/4/12
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\BLK.49210

Rerun (also rerun on low Cal 9/7)

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6921.300	ug/L	
Be	9	-0.008471	4.667	ug/L	0.003
B	10	0.153458	161.003	ug/L	0.015
B	11	0.062141	714.369	ug/L	0.072
C	12		742607.215	ug/L	
Na	23	5.546439	58785.315	ug/L	0.044
Mg	24	0.535421	3644.430	ug/L	0.043
Mg	25	0.587971	553.406	ug/L	0.124
Al	27	0.017836	9359.088	ug/L	0.033
Si	28		120978.430	ug/L	
P	31	-0.711415	13464.643	ug/L	0.525
S	32		116672196.412	ug/L	
Cl	35		13854562.570	ug/L	
K	39	-9.011372	897028.180	ug/L	1.128
Ca	44	20.751735	49546.282	ug/L	3.939
Sc	45		249135.878	ug/L	
Ti	47	-0.450482	586.692	ug/L	0.030
Ti	48	0.031496	-2759.071	ug/L	0.010
V	51	0.724094	50198.422	ug/L	0.043
ClO	51		51870.781	ug/L	
Cr	52	0.017107	12489.571	ug/L	0.009
Cr	53	2.307109	16659.755	ug/L	0.104
Fe	54	7.399001	80254.918	ug/L	1.901
Mn	55	-0.945300	3561.067	ug/L	0.005
Fe	56	-8.042921	4224271.059	ug/L	0.546
Fe	57	-1.300951	12967.207	ug/L	1.207
Co	59	0.000682	759.039	ug/L	0.005
Ni	60	0.034532	194.004	ug/L	0.002
Ni	62	0.018869	74.001	ug/L	0.027
Cu	63	-0.057372	754.039	ug/L	0.000
Zn	64	0.550068	2742.259	ug/L	0.006
Cu	65	-0.008114	108.335	ug/L	0.004
Zn	66	0.560994	1613.826	ug/L	0.042
Zn	68	0.586360	1257.099	ug/L	0.000
Ge	72		202150.522	ug/L	
As	75	-0.110551	-549.373	ug/L	0.035
Se	74	38.539199	15713.350	mg/L	73.447
ArCl	77		1234.429	ug/L	
Br	79		2828.469	ug/L	

Br	81		35664.883	ug/L	
Y	89		544139.190	ug/L	
Mo	95	0.010076	98.335	ug/L	0.000
Rh	103		496312.213	ug/L	
Ag	107	0.365899	6408.323	ug/L	0.007
Ag	109	0.358721	6087.101	ug/L	0.015
Cd	111	0.016790	156.670	ug/L	0.003
Cd	114	0.020845	373.678	ug/L	0.002
In	115		615767.800	ug/L	
Sb	121	0.016374	301.341	ug/L	0.002
Sb	123	0.016295	235.782	ug/L	0.001
Ba	137	0.005490	106.002	ug/L	0.001
Ba	138	0.006458	598.931	ug/L	0.001
Tb	159		671416.721	ug/L	
Ho	165		637732.092	ug/L	
Hg	200	-0.002509	20.000	ug/L	0.000
Hg	202	-0.003018	24.667	ug/L	0.003
Tl	205	0.015868	1421.792	ug/L	0.005
Pb	208	-0.009826	900.026	ug/L	0.002
Bi	209		507447.729	ug/L	
Se	77	1.206549	1157.407	mg/L	0.506
Se	78	0.334090	19913.532	mg/L	0.943
Se	82	-0.169257	-37.440	mg/L	0.045

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		112.275
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 100.811
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 97.819
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 98.452
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Friday, September 07, 2012 18:38:10	100	97	99	101
QC Std 2	Friday, September 07, 2012 18:44:36	98	97	98	99
QC Std 3	Friday, September 07, 2012 18:51:00	97	96	97	98
QC Std 5	Friday, September 07, 2012 18:57:24	98	97	97	99
QC Std 6	Friday, September 07, 2012 19:03:48	101	100	98	99
LLCS	Friday, September 07, 2012 19:29:31	99	99	98	100
ICSA	Friday, September 07, 2012 19:35:56	100	101	94	97
ICSAB	Friday, September 07, 2012 19:42:22	99	101	93	98
5ppm LRC-flush	Friday, September 07, 2012 19:48:47	102	99	97	100
BLK	Friday, September 07, 2012 20:01:40	106	102	102	105
BLK	Friday, September 07, 2012 20:08:07	104	101	102	103
QC Std 1	Friday, September 07, 2012 20:14:34	103	100	99	102
QC Std 2	Friday, September 07, 2012 20:20:59	98	97	97	97
QC Std 5	Friday, September 07, 2012 20:27:23	97	97	97	99
QC Std 6	Friday, September 07, 2012 20:33:48	100	98	96	100
LCS	Friday, September 07, 2012 20:40:13	102	97	95	99
113593.02	Friday, September 07, 2012 21:05:52	103	97	98	99
113593.04	Friday, September 07, 2012 21:12:16	101	96	97	99
113593.06	Friday, September 07, 2012 21:18:41	100	97	97	98
113653.14	Friday, September 07, 2012 21:25:07	102	96	98	100
113653.15	Friday, September 07, 2012 21:31:33	101	97	97	100
113653.16	Friday, September 07, 2012 21:37:59	104	99	101	101
QC Std 1	Friday, September 07, 2012 21:44:26	103	99	100	102
QC Std 2	Friday, September 07, 2012 21:50:51	99	98	100	101
QC Std 5	Friday, September 07, 2012 21:57:15	97	96	99	98
QC Std 6	Friday, September 07, 2012 22:03:40	96	95	93	96
113653.17	Friday, September 07, 2012 22:10:05	101	99	99	100
113653.18	Friday, September 07, 2012 22:16:32	103	100	100	100
113689.03	Friday, September 07, 2012 22:22:58	100	98	98	100
113689.09	Friday, September 07, 2012 22:29:24	101	98	98	99
113689.1	Friday, September 07, 2012 22:35:49	98	98	98	99
113689.11	Friday, September 07, 2012 22:42:14	101	96	98	99
113593.02 MS	Friday, September 07, 2012 22:48:39	100	95	92	95
113593.02 MSD	Friday, September 07, 2012 22:55:05	98	93	91	95
113653.17 MS	Friday, September 07, 2012 23:01:30	95	92	90	94
113653.17 MSD	Friday, September 07, 2012 23:07:55	97	89	89	92
QC Std 1	Friday, September 07, 2012 23:14:22	94	89	92	93
QC Std 2	Friday, September 07, 2012 23:20:47	93	89	91	93
QC Std 5	Friday, September 07, 2012 23:27:11	93	89	90	93
QC Std 6	Friday, September 07, 2012 23:33:36	95	91	90	96
113593.01	Friday, September 07, 2012 23:59:20	107	93	90	94
113593.03	Saturday, September 08, 2012 00:05:47	104	92	92	96
113593.07	Saturday, September 08, 2012 00:12:12	99	91	90	95
113653.01	Saturday, September 08, 2012 00:18:38	108	92	91	94
113653.02	Saturday, September 08, 2012 00:25:03	100	91	89	93
113653.03	Saturday, September 08, 2012 00:31:29	102	89	90	93
113653.06	Saturday, September 08, 2012 00:37:55	105	91	91	95
QC Std 1	Saturday, September 08, 2012 00:44:21	93	89	92	94
QC Std 2	Saturday, September 08, 2012 00:50:46	87	87	89	90
QC Std 5	Saturday, September 08, 2012 00:57:10	88	89	90	92
QC Std 6	Saturday, September 08, 2012 01:03:35	95	92	91	95
113653.07	Saturday, September 08, 2012 01:10:05	104	93	90	95
113653.08	Saturday, September 08, 2012 01:16:36	104	92	91	94
113689.08	Saturday, September 08, 2012 01:23:06	102	89	91	93
113653.07 MS	Saturday, September 08, 2012 01:29:38	102	90	87	91

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Friday, September 07, 2012 18:38:10	100	97	99	101
QC Std 2	Friday, September 07, 2012 18:44:36	98	97	98	99
QC Std 3	Friday, September 07, 2012 18:51:00	97	96	97	98
QC Std 5	Friday, September 07, 2012 18:57:24	98	97	97	99
QC Std 6	Friday, September 07, 2012 19:03:48	101	100	98	99
LLCS	Friday, September 07, 2012 19:29:31	99	99	98	100
ICSA	Friday, September 07, 2012 19:35:56	100	101	94	97
ICSAB	Friday, September 07, 2012 19:42:22	99	101	93	98
5ppm LRC-flush	Friday, September 07, 2012 19:48:47	102	99	97	100
BLK	Friday, September 07, 2012 20:01:40	106	102	102	105
BLK	Friday, September 07, 2012 20:08:07	104	101	102	103
QC Std 1	Friday, September 07, 2012 20:14:34	103	100	99	102
QC Std 2	Friday, September 07, 2012 20:20:59	98	97	97	97
QC Std 5	Friday, September 07, 2012 20:27:23	97	97	97	99
QC Std 6	Friday, September 07, 2012 20:33:48	100	98	96	100
LCS	Friday, September 07, 2012 20:40:13	102	97	95	99
113593.02	Friday, September 07, 2012 21:05:52	103	97	98	99
113593.04	Friday, September 07, 2012 21:12:16	101	96	97	99
113593.06	Friday, September 07, 2012 21:18:41	100	97	97	98
113653.14	Friday, September 07, 2012 21:25:07	102	96	98	100
113653.15	Friday, September 07, 2012 21:31:33	101	97	97	100
113653.16	Friday, September 07, 2012 21:37:59	104	99	101	101
QC Std 1	Friday, September 07, 2012 21:44:26	103	99	100	102
QC Std 2	Friday, September 07, 2012 21:50:51	99	98	100	101
QC Std 5	Friday, September 07, 2012 21:57:15	97	96	99	98
QC Std 6	Friday, September 07, 2012 22:03:40	96	95	93	96
113653.17	Friday, September 07, 2012 22:10:05	101	99	99	100
113653.18	Friday, September 07, 2012 22:16:32	103	100	100	100
113689.03	Friday, September 07, 2012 22:22:58	100	98	98	100
113689.09	Friday, September 07, 2012 22:29:24	101	98	98	99
113689.1	Friday, September 07, 2012 22:35:49	98	98	98	99
113689.11	Friday, September 07, 2012 22:42:14	101	96	98	99
113593.02 MS	Friday, September 07, 2012 22:48:39	100	95	92	95
113593.02 MSD	Friday, September 07, 2012 22:55:05	98	93	91	95
113653.17 MS	Friday, September 07, 2012 23:01:30	95	92	90	94
113653.17 MSD	Friday, September 07, 2012 23:07:55	97	89	89	92
QC Std 1	Friday, September 07, 2012 23:14:22	94	89	92	93
QC Std 2	Friday, September 07, 2012 23:20:47	93	89	91	93
QC Std 5	Friday, September 07, 2012 23:27:11	93	89	90	93
QC Std 6	Friday, September 07, 2012 23:33:36	95	91	90	96
113593.01	Friday, September 07, 2012 23:59:20	107	93	90	94
113593.03	Saturday, September 08, 2012 00:05:47	104	92	92	96
113593.07	Saturday, September 08, 2012 00:12:12	99	91	90	95
113653.01	Saturday, September 08, 2012 00:18:38	108	92	91	94
113653.02	Saturday, September 08, 2012 00:25:03	100	91	89	93
113653.03	Saturday, September 08, 2012 00:31:29	102	89	90	93
113653.06	Saturday, September 08, 2012 00:37:55	105	91	91	95
QC Std 1	Saturday, September 08, 2012 00:44:21	93	89	92	94
QC Std 2	Saturday, September 08, 2012 00:50:46	87	87	89	90
QC Std 5	Saturday, September 08, 2012 00:57:10	88	89	90	92
QC Std 6	Saturday, September 08, 2012 01:03:35	95	92	91	95
113653.07	Saturday, September 08, 2012 01:10:05	104	93	90	95
113653.08	Saturday, September 08, 2012 01:16:36	104	92	91	94
113689.08	Saturday, September 08, 2012 01:23:06	102	89	91	93
113653.07 MS	Saturday, September 08, 2012 01:29:38	102	90	87	91

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.07 MSD	Saturday, September 08, 2012 01:36:09	101	90	88	91
113689.08 MS	Saturday, September 08, 2012 01:42:41	95	87	85	89
113689.08 MSD	Saturday, September 08, 2012 01:49:12	98	87	86	90
QC Std 1	Saturday, September 08, 2012 02:15:12	88	86	89	91
QC Std 2	Saturday, September 08, 2012 02:21:37	85	84	87	89
QC Std 5	Saturday, September 08, 2012 02:28:01	85	85	87	90
QC Std 6	Saturday, September 08, 2012 02:34:25	90	88	88	93
113593.02	Saturday, September 08, 2012 02:40:56	105	86	85	90
113593.04	Saturday, September 08, 2012 02:47:27	102	85	86	89
113593.05	Saturday, September 08, 2012 02:53:58	99	89	87	92
113593.06	Saturday, September 08, 2012 03:00:29	100	84	84	89
113593.08	Saturday, September 08, 2012 03:07:00	115	90	87	90
113593.09	Saturday, September 08, 2012 03:13:31	100	88	88	92
113593.1	Saturday, September 08, 2012 03:20:02	103	92	89	90
113593.11	Saturday, September 08, 2012 03:26:34	89	88	88	93
113593.12	Saturday, September 08, 2012 03:33:06	87	86	87	90
113653.04	Saturday, September 08, 2012 03:39:37	107	92	90	91
QC Std 1	Saturday, September 08, 2012 03:46:04	91	90	90	94
QC Std 2	Saturday, September 08, 2012 03:52:29	87	86	87	89
QC Std 5	Saturday, September 08, 2012 03:58:53	88	87	88	89
QC Std 6	Saturday, September 08, 2012 04:05:18	92	90	88	91
113653.05	Saturday, September 08, 2012 04:11:48	109	90	88	90
113653.09	Saturday, September 08, 2012 04:18:20	107	90	88	92
113653.1	Saturday, September 08, 2012 04:24:51	110	93	88	95
113653.11	Saturday, September 08, 2012 04:31:22	111	93	89	93
113653.12	Saturday, September 08, 2012 04:37:53	105	93	89	92
113653.13	Saturday, September 08, 2012 04:44:25	109	92	90	94
113653.14	Saturday, September 08, 2012 04:50:56	117	90	88	94
113653.15	Saturday, September 08, 2012 04:57:27	104	86	83	88
113653.16	Saturday, September 08, 2012 05:03:59	103	87	85	90
113653.17	Saturday, September 08, 2012 05:10:31	104	87	85	90
QC Std 1	Saturday, September 08, 2012 05:16:58	95	89	90	94
QC Std 2	Saturday, September 08, 2012 05:23:23	90	89	89	92
QC Std 5	Saturday, September 08, 2012 05:29:47	90	87	88	91
QC Std 6	Saturday, September 08, 2012 05:36:12	96	93	88	95
113653.18	Saturday, September 08, 2012 05:42:43	113	90	86	91
113653.2	Saturday, September 08, 2012 05:49:14	94	89	91	94
113689.01	Saturday, September 08, 2012 05:55:46	106	91	89	94
113689.02	Saturday, September 08, 2012 06:02:17	106	89	87	93
113689.03	Saturday, September 08, 2012 06:08:49	114	86	84	90
113689.04	Saturday, September 08, 2012 06:15:21	104	89	87	91
113689.05	Saturday, September 08, 2012 06:21:53	110	89	88	92
113689.06	Saturday, September 08, 2012 06:28:24	110	87	86	89
113689.07	Saturday, September 08, 2012 06:34:56	100	86	84	89
113689.09	Saturday, September 08, 2012 06:41:27	101	84	82	87
QC Std 1	Saturday, September 08, 2012 06:47:55	87	85	85	90
QC Std 2	Saturday, September 08, 2012 06:54:20	83	82	82	85
QC Std 5	Saturday, September 08, 2012 07:00:44	84	82	82	85
QC Std 6	Saturday, September 08, 2012 07:07:09	89	86	84	88
113689.1	Saturday, September 08, 2012 07:13:40	98	83	81	86
113689.11	Saturday, September 08, 2012 07:20:12	106	83	82	86
113593.12 MS	Saturday, September 08, 2012 07:26:44	88	85	84	88
113593.12 MSD	Saturday, September 08, 2012 07:33:16	89	84	83	86
113653.01	Saturday, September 08, 2012 07:59:26	109	87	83	87
113653.02	Saturday, September 08, 2012 08:05:58	102	85	80	84

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113593, 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
113653.04	Saturday, September 08, 2012 08:12:30	108	87	86	89
QC Std 1	Saturday, September 08, 2012 08:18:58	87	85	85	88
QC Std 2	Saturday, September 08, 2012 08:25:23	84	83	83	86
QC Std 5	Saturday, September 08, 2012 08:31:47	85	84	85	87
QC Std 6	Saturday, September 08, 2012 08:38:12	87	87	84	88
113653.05	Saturday, September 08, 2012 08:44:43	106	87	84	88
113653.06	Saturday, September 08, 2012 08:51:15	107	87	83	87
113653.07	Saturday, September 08, 2012 08:57:48	103	85	83	87
113653.07 MS	Saturday, September 08, 2012 09:04:20	100	83	80	83
113653.07 MSD	Saturday, September 08, 2012 09:10:52	97	82	80	84
113653.08	Saturday, September 08, 2012 09:37:03	100	82	81	86
113653.09	Saturday, September 08, 2012 09:43:36	99	85	84	87
QC Std 1	Saturday, September 08, 2012 09:50:03	83	84	84	87
QC Std 2	Saturday, September 08, 2012 09:56:29	82	83	82	86
QC Std 5	Saturday, September 08, 2012 10:02:53	84	83	83	86
QC Std 6	Saturday, September 08, 2012 10:09:18	86	85	84	87
113653.1	Saturday, September 08, 2012 10:15:49	99	83	83	85
113653.11	Saturday, September 08, 2012 10:22:22	101	86	83	88
113653.12	Saturday, September 08, 2012 10:28:54	96	85	83	87
113653.13	Saturday, September 08, 2012 10:35:27	95	84	82	86
113653.16	Saturday, September 08, 2012 10:42:00	96	83	81	85
113653.17	Saturday, September 08, 2012 10:48:32	94	79	78	82
113653.2	Saturday, September 08, 2012 10:55:05	84	83	84	86
113689.01	Saturday, September 08, 2012 11:01:38	94	83	83	86
113689.01 MS	Saturday, September 08, 2012 11:08:11	97	84	81	85
113689.01 MSD	Saturday, September 08, 2012 11:14:44	98	84	81	84
QC Std 1	Saturday, September 08, 2012 11:21:11	85	84	82	87
QC Std 2	Saturday, September 08, 2012 11:27:37	84	83	83	86
QC Std 5	Saturday, September 08, 2012 11:34:01	85	83	83	86
QC Std 6	Saturday, September 08, 2012 11:40:26	87	86	83	88
113689.02	Saturday, September 08, 2012 12:06:36	98	84	82	88
113689.03	Saturday, September 08, 2012 12:13:09	106	81	79	84
113689.04	Saturday, September 08, 2012 12:19:42	92	81	80	84
113689.05	Saturday, September 08, 2012 12:26:15	89	77	77	80
113689.07	Saturday, September 08, 2012 12:32:48	86	78	77	80
113689.08	Saturday, September 08, 2012 12:39:21	97	79	77	82
113689.09	Saturday, September 08, 2012 12:45:54	91	79	77	82
QC Std 1	Saturday, September 08, 2012 12:52:22	81	79	81	85
QC Std 2	Saturday, September 08, 2012 12:58:47	79	78	80	83
QC Std 5	Saturday, September 08, 2012 13:05:12	80	80	81	83
QC Std 6	Saturday, September 08, 2012 13:11:36	87	84	83	86
113689.1	Saturday, September 08, 2012 13:18:08	94	82	79	85
113689.11	Saturday, September 08, 2012 13:24:42	100	81	79	83
QC Std 1	Saturday, September 08, 2012 13:31:09	83	82	85	87
QC Std 2	Saturday, September 08, 2012 13:37:35	81	83	84	86
QC Std 5	Saturday, September 08, 2012 13:43:59	79	80	82	86
QC Std 6	Saturday, September 08, 2012 13:50:24	86	84	82	85

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Friday, September 07, 2012 18:38:10	Sample Date/Time:	Friday, September 07, 2012 20:14:34
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.762981	ug/L		< 50	Al	27	-0.846713	ug/L		< 50
Ca	44	5.370319	ug/L		< 50	Ca	44	0.273469	ug/L		< 50
Fe	54	7.177708	ug/L		< 50	Fe	54	3.753112	ug/L		< 50
Fe	56	5.286731	ug/L		< 50	Fe	56	-1.5092	ug/L		< 50
Fe	57	-0.778852	ug/L		< 50	Fe	57	-1.532881	ug/L		< 50
Ge	72		ug/L	97.399		Ge	72		ug/L	100.329	
Ho	165		ug/L	100.936		Ho	165		ug/L	102.074	
In	115		ug/L	98.844		In	115		ug/L	99.455	
Mg	24	0.043825	ug/L		< 50	Mg	24	-0.016678	ug/L		< 50
Mg	25	0.070452	ug/L		< 50	Mg	25	-0.013059	ug/L		< 50
Mn	55	-0.001824	ug/L		< 5	Mn	55	-0.011139	ug/L		< 5
Na	23	-1.054749	ug/L		< 5000	Na	23	-1.221769	ug/L		< 5000
Sc	45		ug/L	99.7		Sc	45		ug/L	102.831	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Friday, September 07, 2012 21:44:26	Sample Date/Time:	Friday, September 07, 2012 23:14:22
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.848913	ug/L		< 50	Al	27	-0.737747	ug/L		< 50
Ca	44	-0.932593	ug/L		< 50	Ca	44	-1.940492	ug/L		< 50
Fe	54	4.967352	ug/L		< 50	Fe	54	4.448004	ug/L		< 50
Fe	56	1.077024	ug/L		< 50	Fe	56	-9.052308	ug/L		< 50
Fe	57	-3.007094	ug/L		< 50	Fe	57	-7.100305	ug/L		< 50
Ge	72		ug/L	98.741		Ge	72		ug/L	89.302	
Ho	165		ug/L	102.173		Ho	165		ug/L	93.486	
In	115		ug/L	100.354		In	115		ug/L	91.565	
Mg	24	-0.001243	ug/L		< 50	Mg	24	0.051856	ug/L		< 50
Mg	25	0.01821	ug/L		< 50	Mg	25	0.048126	ug/L		< 50
Mn	55	-0.004059	ug/L		< 5	Mn	55	0.000192	ug/L		< 5
Na	23	-1.00803	ug/L		< 5000	Na	23	-0.643553	ug/L		< 5000
Sc	45		ug/L	103.291		Sc	45		ug/L	93.625	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 00:44:21	Sample Date/Time:	Saturday, September 08, 2012 02:15:12
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.82467	ug/L		< 50	Al	27	-0.831116	ug/L		< 50
Ca	44	-5.59895	ug/L		< 50	Ca	44	-3.329458	ug/L		< 50
Fe	54	8.136208	ug/L		< 50	Fe	54	9.263843	ug/L		< 50
Fe	56	0.763253	ug/L		< 50	Fe	56	12.144718	ug/L		< 50
Fe	57	-5.8138	ug/L		< 50	Fe	57	-3.232825	ug/L		< 50
Ge	72		ug/L	89.407		Ge	72		ug/L	86.408	
Ho	165		ug/L	93.797		Ho	165		ug/L	91.194	
In	115		ug/L	91.624		In	115		ug/L	88.971	
Mg	24	0.077979	ug/L		< 50	Mg	24	0.009493	ug/L		< 50
Mg	25	0.009773	ug/L		< 50	Mg	25	0.037663	ug/L		< 50
Mn	55	-0.008424	ug/L		< 5	Mn	55	0.019377	ug/L		< 5
Na	23	-0.374709	ug/L		< 5000	Na	23	-0.041478	ug/L		< 5000
Sc	45		ug/L	92.926		Sc	45		ug/L	88.465	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 03:46:04	Sample Date/Time:	Saturday, September 08, 2012 05:16:58
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.825339	ug/L		< 50	Al	27	-0.834975	ug/L		< 50
Ca	44	-7.940643	ug/L		< 50	Ca	44	-11.595541	ug/L		< 50
Fe	54	7.079365	ug/L		< 50	Fe	54	9.351822	ug/L		< 50
Fe	56	0.89331	ug/L		< 50	Fe	56	12.318339	ug/L		< 50
Fe	57	-5.024962	ug/L		< 50	Fe	57	-4.170961	ug/L		< 50
Ge	72		ug/L	90.104		Ge	72		ug/L	89.057	
Ho	165		ug/L	94.277		Ho	165		ug/L	94.243	
In	115		ug/L	89.99		In	115		ug/L	89.791	
Mg	24	0.037558	ug/L		< 50	Mg	24	0.084296	ug/L		< 50
Mg	25	0.023138	ug/L		< 50	Mg	25	0.113633	ug/L		< 50
Mn	55	0.070064	ug/L		< 5	Mn	55	0.028048	ug/L		< 5
Na	23	0.889554	ug/L		< 5000	Na	23	4.137292	ug/L		< 5000
Sc	45		ug/L	90.813		Sc	45		ug/L	94.95	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 06:47:55	Sample Date/Time:	Saturday, September 08, 2012 08:18:58
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.794713	ug/L		< 50	Al	27	-0.781539	ug/L		< 50
Ca	44	-8.98912	ug/L		< 50	Ca	44	-7.76439	ug/L		< 50
Fe	54	8.991527	ug/L		< 50	Fe	54	11.546793	ug/L		< 50
Fe	56	25.903916	ug/L		< 50	Fe	56	10.711752	ug/L		< 50
Fe	57	-5.92038	ug/L		< 50	Fe	57	-3.65967	ug/L		< 50
Ge	72		ug/L	85.408		Ge	72		ug/L	84.836	
Ho	165		ug/L	89.877		Ho	165		ug/L	88.463	
In	115		ug/L	84.53		In	115		ug/L	85.057	
Mg	24	0.224152	ug/L		< 50	Mg	24	0.146286	ug/L		< 50
Mg	25	0.229947	ug/L		< 50	Mg	25	0.124174	ug/L		< 50
Mn	55	0.026233	ug/L		< 5	Mn	55	0.111538	ug/L		< 5
Na	23	3.823404	ug/L		< 5000	Na	23	2.742379	ug/L		< 5000
Sc	45		ug/L	87.198		Sc	45		ug/L	87.228	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID:	QC Std 1	Sample ID:	QC Std 1
Sample Date/Time:	Saturday, September 08, 2012 09:50:03	Sample Date/Time:	Saturday, September 08, 2012 11:21:11
Sample Description:	Blank	Sample Description:	Blank

Concentration Results				Int Std		Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL	Analyte	Mass	Conc.	Units	% R	RL
Al	27	-0.799773	ug/L		< 50	Al	27	-0.668976	ug/L		< 50
Ca	44	-0.661895	ug/L		< 50	Ca	44	-3.955676	ug/L		< 50
Fe	54	12.806004	ug/L		< 50	Fe	54	12.450988	ug/L		< 50
Fe	56	21.201217	ug/L		< 50	Fe	56	27.555675	ug/L		< 50
Fe	57	-4.078429	ug/L		< 50	Fe	57	-2.815323	ug/L		< 50
Ge	72		ug/L	83.6		Ge	72		ug/L	84.013	
Ho	165		ug/L	86.679		Ho	165		ug/L	87.159	
In	115		ug/L	84.114		In	115		ug/L	82.406	
Mg	24	0.1595	ug/L		< 50	Mg	24	0.28736	ug/L		< 50
Mg	25	0.161189	ug/L		< 50	Mg	25	0.287397	ug/L		< 50
Mn	55	0.047615	ug/L		< 5	Mn	55	0.052023	ug/L		< 5
Na	23	3.076573	ug/L		< 5000	Na	23	2.78854	ug/L		< 5000
Sc	45		ug/L	82.606		Sc	45		ug/L	85.25	

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID QC Std 1
Sample D: Saturday, September 08, 2012 12:52:22
Sample Description: Blank

CV sum
Sample Date/Time: Saturday, September 08, 2012 13:31:09
Sample Description: Blank

v Analyte	Mass	Conc.	Units	Int Std % R	RL	Concentration Results Analyte	Mass	Conc.	Units	Int Std % R	RL
Al	27	-0.780324	ug/L		< 50	Al	27	-0.755159	ug/L		< 50
Ca	44	-2.481456	ug/L		< 50	Ca	44	-7.215805	ug/L		< 50
Fe	54	10.11744	ug/L		< 50	Fe	54	12.465994	ug/L		< 50
Fe	56	39.041042	ug/L		< 50	Fe	56	35.217536	ug/L		< 50
Fe	57	-3.173767	ug/L		< 50	Fe	57	-2.171576	ug/L		< 50
Ge	72		ug/L	79.436		Ge	72		ug/L	82.12	
Ho	165		ug/L	84.52		Ho	165		ug/L	86.889	
In	115		ug/L	80.617		In	115		ug/L	84.535	
Mg	24	0.440754	ug/L		< 50	Mg	24	0.515661	ug/L		< 50
Mg	25	0.366217	ug/L		< 50	Mg	25	0.485953	ug/L		< 50
Mn	55	0.030563	ug/L		< 5	Mn	55	0.029926	ug/L		< 5
Na	23	5.720763	ug/L		< 5000	Na	23	6.332975	ug/L		< 5000
Sc	45		ug/L	80.885		Sc	45		ug/L	83.463	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 18:44:36
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		97.003	
Ho	165		ug/L		98.557	
In	115		ug/L		97.578	
Mn	55	97.987948	ug/L	97.598		100
Sc	45		ug/L		97.97	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 20:20:59
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		96.918	
Ho	165		ug/L		97.453	
In	115		ug/L		96.888	
Mn	55	102.11727	ug/L	101.71		100
Sc	45		ug/L		97.533	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 18:57:24
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	239.706601	ug/L	91.842		261
Fe	54	224.411917	ug/L	93.117		241
Fe	56	247.191479	ug/L	102.569		241
Fe	57	243.611542	ug/L	101.084		241
Ge	72		ug/L		97.266	
Ho	165		ug/L		98.692	
In	115		ug/L		97.471	
Sc	45		ug/L		97.687	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 20:27:23
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.933841	ug/L	93.844		261
Fe	54	233.216321	ug/L	96.77		241
Fe	56	251.946725	ug/L	104.542		241
Fe	57	250.551404	ug/L	103.963		241
Ge	72		ug/L		97.244	
Ho	165		ug/L		98.628	
In	115		ug/L		96.65	
Sc	45		ug/L		96.649	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 19:03:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9821.04106	ug/L	98.21		10000
Ca	44	10868.5528	ug/L	108.686		10000
Fe	54	9719.4603	ug/L	97.195		10000
Fe	56	9273.51168	ug/L	92.735		10000
Ge	72		ug/L		99.593	
Ho	165		ug/L		99.227	
In	115		ug/L		97.714	
Mg	24	9617.06466	ug/L	96.171		10000
Mg	25	9514.15647	ug/L	95.142		10000
Na	23	9735.18095	ug/L	97.352		10000
Sc	45		ug/L		101.112	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 20:33:48
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10122.9206	ug/L	101.229		10000
Ca	44	10760.4728	ug/L	107.605		10000
Fe	54	9935.72185	ug/L	99.357		10000
Fe	56	9778.40894	ug/L	97.784		10000
Ge	72		ug/L		97.869	
Ho	165		ug/L		99.77	
In	115		ug/L		95.899	
Mg	24	9850.65187	ug/L	98.507		10000
Mg	25	9689.54824	ug/L	96.895		10000
Na	23	9811.68527	ug/L	98.117		10000
Sc	45		ug/L		100.372	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 21:50:51
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		98.365	
Ho	165		ug/L		100.869	
In	115		ug/L		99.644	
Mn	55	98.350618	ug/L	97.959		100
Sc	45		ug/L		99.298	

Sample ID: QC Std 2
Sample Date/Time: Friday, September 07, 2012 23:20:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		89.047	
Ho	165		ug/L		93.476	
In	115		ug/L		90.743	
Mn	55	96.727627	ug/L	96.342		100
Sc	45		ug/L		93.034	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 21:57:15
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	240.640902	ug/L	92.2		261
Fe	54	228.769029	ug/L	94.925		241
Fe	56	260.013622	ug/L	107.889		241
Fe	57	241.573979	ug/L	100.238		241
Ge	72		ug/L		96.381	
Ho	165		ug/L		97.863	
In	115		ug/L		99.169	
Sc	45		ug/L		96.636	

Sample ID: QC Std 5
Sample Date/Time: Friday, September 07, 2012 23:27:11
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	243.607706	ug/L	93.336		261
Fe	54	217.623034	ug/L	90.3		241
Fe	56	236.25211	ug/L	98.03		241
Fe	57	239.147715	ug/L	99.231		241
Ge	72		ug/L		89.122	
Ho	165		ug/L		93.145	
In	115		ug/L		89.862	
Sc	45		ug/L		93.07	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 22:03:40
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10072.7387	ug/L	100.727		10000
Ca	44	10952.3783	ug/L	109.524		10000
Fe	54	10206.8512	ug/L	102.069		10000
Fe	56	10042.2978	ug/L	100.423		10000
Ge	72		ug/L		94.586	
Ho	165		ug/L		95.928	
In	115		ug/L		93.189	
Mg	24	10156.6113	ug/L	101.566		10000
Mg	25	9987.61904	ug/L	99.876		10000
Na	23	10182.0068	ug/L	101.82		10000
Sc	45		ug/L		96.077	

Sample ID: QC Std 6
Sample Date/Time: Friday, September 07, 2012 23:33:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10003.8754	ug/L	100.039		10000
Ca	44	10669.6801	ug/L	106.697		10000
Fe	54	9759.43554	ug/L	97.594		10000
Fe	56	9556.90106	ug/L	95.569		10000
Ge	72		ug/L		90.805	
Ho	165		ug/L		95.629	
In	115		ug/L		90.014	
Mg	24	9935.05165	ug/L	99.351		10000
Mg	25	9713.54015	ug/L	97.135		10000
Na	23	9844.06417	ug/L	98.441		10000
Sc	45		ug/L		95.333	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 00:50:46
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		87.174	
Ho	165		ug/L		90.083	
In	115		ug/L		88.755	
Mn	55	103.209128	ug/L	102.798		100
Sc	45		ug/L		87.286	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 02:21:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		84.253	
Ho	165		ug/L		88.767	
In	115		ug/L		87.242	
Mn	55	101.407433	ug/L	101.003		100
Sc	45		ug/L		84.976	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 00:57:10
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	255.14964	ug/L	97.758		261
Fe	54	242.966482	ug/L	100.816		241
Fe	56	256.802865	ug/L	106.557		241
Fe	57	243.611175	ug/L	101.083		241
Ge	72		ug/L		88.689	
Ho	165		ug/L		92.055	
In	115		ug/L		89.799	
Sc	45		ug/L		88.484	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 02:28:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	250.459206	ug/L	95.961		261
Fe	54	231.972135	ug/L	96.254		241
Fe	56	253.007992	ug/L	104.983		241
Fe	57	247.311975	ug/L	102.619		241
Ge	72		ug/L		85.112	
Ho	165		ug/L		90.007	
In	115		ug/L		86.857	
Sc	45		ug/L		84.784	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 01:03:35
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10206.1983	ug/L	102.062		10000
Ca	44	10834.1078	ug/L	108.341		10000
Fe	54	9812.10925	ug/L	98.121		10000
Fe	56	9722.09183	ug/L	97.221		10000
Ge	72		ug/L		92.248	
Ho	165		ug/L		94.51	
In	115		ug/L		90.695	
Mg	24	10316.7968	ug/L	103.168		10000
Mg	25	10146.2322	ug/L	101.462		10000
Na	23	10032.7837	ug/L	100.328		10000
Sc	45		ug/L		95.195	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 02:34:25
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10195.7436	ug/L	101.957		10000
Ca	44	11052.1775	ug/L	110.522		10000
Fe	54	9768.78946	ug/L	97.688		10000
Fe	56	9580.78899	ug/L	95.808		10000
Ge	72		ug/L		87.676	
Ho	165		ug/L		93.178	
In	115		ug/L		88.008	
Mg	24	10054.7446	ug/L	100.547		10000
Mg	25	10102.7576	ug/L	101.028		10000
Na	23	10192.0817	ug/L	101.921		10000
Sc	45		ug/L		90.361	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 03:52:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		85.705	
Ho	165		ug/L		88.935	
In	115		ug/L		87.026	
Mn	55	101.646839	ug/L	101.242		100
Sc	45		ug/L		86.754	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 05:23:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		88.715	
Ho	165		ug/L		92.062	
In	115		ug/L		88.844	
Mn	55	102.074017	ug/L	101.667		100
Sc	45		ug/L		89.924	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 03:58:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.022578	ug/L	93.878		261
Fe	54	233.553637	ug/L	96.91		241
Fe	56	251.965528	ug/L	104.55		241
Fe	57	246.001919	ug/L	102.075		241
Ge	72		ug/L		87.05	
Ho	165		ug/L		88.806	
In	115		ug/L		88.128	
Sc	45		ug/L		88.419	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 05:29:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	249.308178	ug/L	95.52		261
Fe	54	232.980879	ug/L	96.673		241
Fe	56	263.633303	ug/L	109.391		241
Fe	57	246.459145	ug/L	102.265		241
Ge	72		ug/L		86.682	
Ho	165		ug/L		90.655	
In	115		ug/L		87.966	
Sc	45		ug/L		90.278	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 04:05:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9918.1596	ug/L	99.182		10000
Ca	44	10613.2698	ug/L	106.133		10000
Fe	54	9474.74126	ug/L	94.747		10000
Fe	56	9246.39579	ug/L	92.464		10000
Ge	72		ug/L		89.768	
Ho	165		ug/L		91.441	
In	115		ug/L		87.766	
Mg	24	9992.75358	ug/L	99.928		10000
Mg	25	9692.79444	ug/L	96.928		10000
Na	23	9864.07804	ug/L	98.641		10000
Sc	45		ug/L		92.095	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 05:36:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10078.3115	ug/L	100.783		10000
Ca	44	10837.822	ug/L	108.378		10000
Fe	54	9685.44128	ug/L	96.854		10000
Fe	56	9549.35141	ug/L	95.494		10000
Ge	72		ug/L		93.21	
Ho	165		ug/L		94.84	
In	115		ug/L		87.987	
Mg	24	9898.17902	ug/L	98.982		10000
Mg	25	9999.70596	ug/L	99.997		10000
Na	23	10140.2359	ug/L	101.402		10000
Sc	45		ug/L		95.571	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 06:54:20
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.433	
Ho	165		ug/L		84.85	
In	115		ug/L		82.18	
Mn	55	101.120024	ug/L	100.717		100
Sc	45		ug/L		82.533	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 08:25:23
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.52	
Ho	165		ug/L		85.688	
In	115		ug/L		82.522	
Mn	55	102.13096	ug/L	101.724		100
Sc	45		ug/L		84.366	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 07:00:44
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	245.18656	ug/L	93.941		261
Fe	54	227.914056	ug/L	94.57		241
Fe	56	271.588126	ug/L	112.692		241
Fe	57	238.729371	ug/L	99.058		241
Ge	72		ug/L		81.66	
Ho	165		ug/L		84.936	
In	115		ug/L		82.463	
Sc	45		ug/L		84.185	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 08:31:47
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	244.149223	ug/L	93.544		261
Fe	54	223.801239	ug/L	92.864		241
Fe	56	251.36644	ug/L	104.301		241
Fe	57	234.526576	ug/L	97.314		241
Ge	72		ug/L		83.956	
Ho	165		ug/L		87.077	
In	115		ug/L		84.971	
Sc	45		ug/L		85.39	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 07:07:09
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10028.8908	ug/L	100.289		10000
Ca	44	10730.8532	ug/L	107.309		10000
Fe	54	9706.89708	ug/L	97.069		10000
Fe	56	9658.50601	ug/L	96.585		10000
Ge	72		ug/L		86.381	
Ho	165		ug/L		88.016	
In	115		ug/L		83.773	
Mg	24	10100.807	ug/L	101.008		10000
Mg	25	9963.28239	ug/L	99.633		10000
Na	23	9987.97701	ug/L	99.88		10000
Sc	45		ug/L		89.332	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 08:38:12
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10348.5488	ug/L	103.485		10000
Ca	44	10910.5324	ug/L	109.105		10000
Fe	54	9926.81306	ug/L	99.268		10000
Fe	56	9621.71089	ug/L	96.217		10000
Ge	72		ug/L		86.844	
Ho	165		ug/L		87.529	
In	115		ug/L		83.565	
Mg	24	10206.7881	ug/L	102.068		10000
Mg	25	10021.9309	ug/L	100.219		10000
Na	23	10278.3793	ug/L	102.784		10000
Sc	45		ug/L		87.337	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 09:56:29
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.815	
Ho	165		ug/L		85.505	
In	115		ug/L		82.467	
Mn	55	100.292462	ug/L	99.893		100
Sc	45		ug/L		81.817	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 11:27:37
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		83.263	
Ho	165		ug/L		86.245	
In	115		ug/L		82.617	
Mn	55	97.804386	ug/L	97.415		100
Sc	45		ug/L		84.44	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 10:02:53
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	241.57943	ug/L	92.559		261
Fe	54	233.970347	ug/L	97.083		241
Fe	56	256.749267	ug/L	106.535		241
Fe	57	239.115813	ug/L	99.218		241
Ge	72		ug/L		82.894	
Ho	165		ug/L		85.646	
In	115		ug/L		83.41	
Sc	45		ug/L		83.553	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 11:34:01
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.371946	ug/L	92.863		261
Fe	54	229.909119	ug/L	95.398		241
Fe	56	255.808153	ug/L	106.144		241
Fe	57	237.941729	ug/L	98.731		241
Ge	72		ug/L		83.332	
Ho	165		ug/L		85.811	
In	115		ug/L		83.293	
Sc	45		ug/L		84.928	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 10:09:18
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10139.3856	ug/L	101.394		10000
Ca	44	10798.0704	ug/L	107.981		10000
Fe	54	9736.36796	ug/L	97.364		10000
Fe	56	9598.96361	ug/L	95.99		10000
Ge	72		ug/L		84.589	
Ho	165		ug/L		86.965	
In	115		ug/L		83.539	
Mg	24	10021.9273	ug/L	100.219		10000
Mg	25	9936.44175	ug/L	99.364		10000
Na	23	10063.0831	ug/L	100.631		10000
Sc	45		ug/L		85.595	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 11:40:26
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9987.57075	ug/L	99.876		10000
Ca	44	10824.1353	ug/L	108.241		10000
Fe	54	9813.1487	ug/L	98.131		10000
Fe	56	9357.55451	ug/L	93.576		10000
Ge	72		ug/L		85.557	
Ho	165		ug/L		87.517	
In	115		ug/L		82.521	
Mg	24	9993.66247	ug/L	99.937		10000
Mg	25	10047.3328	ug/L	100.473		10000
Na	23	10083.1648	ug/L	100.832		10000
Sc	45		ug/L		87.293	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 12:58:47
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		78.234	
Ho	165		ug/L		82.769	
In	115		ug/L		80.199	
Mn	55	100.518983	ug/L	100.119		100
Sc	45		ug/L		79.051	

Sample ID: QC Std 2
Sample Date/Time: Saturday, September 08, 2012 13:37:35
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ge	72		ug/L		82.72	
Ho	165		ug/L		86.027	
In	115		ug/L		83.828	
Mn	55	100.217078	ug/L	99.818		100
Sc	45		ug/L		81.428	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:05:12
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	242.136557	ug/L	92.773		261
Fe	54	231.813932	ug/L	96.188		241
Fe	56	280.099294	ug/L	116.224		241
Fe	57	245.458443	ug/L	101.85		241
Ge	72		ug/L		79.536	
Ho	165		ug/L		83.158	
In	115		ug/L		80.708	
Sc	45		ug/L		79.539	

Sample ID: QC Std 5
Sample Date/Time: Saturday, September 08, 2012 13:43:59
Sample Description: CV-Trace Metals 2

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	248.600398	ug/L	95.249		261
Fe	54	236.544791	ug/L	98.151		241
Fe	56	288.951988	ug/L	119.897		241
Fe	57	252.889631	ug/L	104.933		241
Ge	72		ug/L		80.194	
Ho	165		ug/L		85.602	
In	115		ug/L		82.25	
Sc	45		ug/L		79.333	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:11:36
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	9737.32035	ug/L	97.373		10000
Ca	44	10568.1286	ug/L	105.681		10000
Fe	54	9547.97255	ug/L	95.48		10000
Fe	56	9594.99872	ug/L	95.95		10000
Ge	72		ug/L		84.136	
Ho	165		ug/L		85.935	
In	115		ug/L		82.595	
Mg	24	9701.60503	ug/L	97.016		10000
Mg	25	9694.41781	ug/L	96.944		10000
Na	23	9901.93632	ug/L	99.019		10000
Sc	45		ug/L		86.644	

Sample ID: QC Std 6
Sample Date/Time: Saturday, September 08, 2012 13:50:24
Sample Description: CV-Minerals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Al	27	10063.1198	ug/L	100.631		10000
Ca	44	10859.6103	ug/L	108.596		10000
Fe	54	9754.19231	ug/L	97.542		10000
Fe	56	9498.05269	ug/L	94.981		10000
Ge	72		ug/L		83.516	
Ho	165		ug/L		85.474	
In	115		ug/L		82.078	
Mg	24	9898.04058	ug/L	98.98		10000
Mg	25	9945.35833	ug/L	99.454		10000
Na	23	9963.49099	ug/L	99.635		10000
Sc	45		ug/L		86.097	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593, 113653 & 113689
Total & Dissolved Metals

Sample ID ICSA
Sample Da Friday, September 07, 2012 19:35:56
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	-0.00278	ug/L			< 1
Ag	109	-0.00177	ug/L			< 1
Al	27	49059.94	ug/L			50000
As	75	-0.14036	ug/L			< 1
Ba	137	0.102439	ug/L			< 1
Be	9	0.015344	ug/L			< 1
Ca	44	53262.34	ug/L			50000
Cd	111	0.056792	ug/L			< 1
Cd	114	0.053708	ug/L			< 1
Co	59	0.111072	ug/L			< 1
Cr	52	0.455798	ug/L			< 1
Cu	63	1.032771	ug/L			1.03
Cu	65	0.650015	ug/L			< 1
Fe	54	48811.77	ug/L			50000
Fe	56	48004.1	ug/L			50000
Fe	57	54242.44	ug/L			50000
Ge	72		ug/L		100.866	
Hg	200	0.048078	ug/L			< 0.1
Hg	202	0.053034	ug/L			< 0.1
Ho	165		ug/L		97.42	
In	115		ug/L		94.492	
K	39	48600.57	ug/L			50000
Mg	24	47947.38	ug/L			50000
Mg	25	47563.77	ug/L			50000
Mn	55	0.176795	ug/L			< 5
Na	23	49141.84	ug/L			50000
Ni	60	1.368041	ug/L			1.3
Ni	62	0.857476	ug/L			< 1
P	31	53514.52	ug/L			50000
Pb	208	0.10004	ug/L			< 1
Sb	121	0.065631	ug/L			< 1
Sb	123	0.064661	ug/L			< 1
Sc	45		ug/L		99.766	
Se	82	-0.05464	mg/L			< 1
Tl	205	-0.01314	ug/L			< 1
V	51	1.93374	ug/L			< 5
Zn	64	4.200555	ug/L			< 5
Zn	66	0.873629	ug/L			< 5
Zn	68	0.457485	ug/L			< 5

Sample ID ICSAB
Sample Da Friday, September 07, 2012 19:42:22
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	9.259829	ug/L	92.60		10
Ag	109	9.139858	ug/L	91.40		10
Al	27	49653.87	ug/L	99.31		50000
As	75	9.559282	ug/L	95.59		10
Ba	137	10.07839	ug/L	100.78		10
Be	9	9.783013	ug/L	97.83		10
Ca	44	52736.65	ug/L	105.47		50000
Cd	111	9.746973	ug/L	97.47		10
Cd	114	9.865336	ug/L	98.65		10
Co	59	9.439641	ug/L	94.40		10
Cr	52	9.913251	ug/L	99.13		10
Cu	63	9.592441	ug/L	85.60		10
Cu	65	9.172727	ug/L	91.73		10
Fe	54	48439	ug/L	96.88		50000
Fe	56	48469.59	ug/L	96.94		50000
Fe	57	55542.26	ug/L	111.08		50000
Ge	72		ug/L		101.189	
Hg	200	1.008409	ug/L	100.84		1
Hg	202	1.015906	ug/L	101.59		1
Ho	165		ug/L		97.75	
In	115		ug/L		93.4	
K	39	48397.61	ug/L	96.80		50000
Mg	24	48459.95	ug/L	96.92		50000
Mg	25	46399.7	ug/L	92.80		50000
Mn	55	9.589027	ug/L	95.89		10
Na	23	48247.39	ug/L	96.49		50000
Ni	60	10.4397	ug/L	90.72		10
Ni	62	9.837015	ug/L	98.37		10
P	31	52772.57	ug/L	105.55		50000
Pb	208	9.532929	ug/L	95.33		10
Sb	121	10.23088	ug/L	102.31		10
Sb	123	10.12516	ug/L	101.25		10
Sc	45		ug/L		99.102	
Se	82	9.789298	mg/L	97.89		10
Tl	205	9.397685	ug/L	94.11		10
V	51	11.92832	ug/L	99.95		10
Zn	64	13.34159	ug/L	91.41		10
Zn	66	9.975645	ug/L	99.76		10
Zn	68	9.479099	ug/L	94.79		10

Sample ID: 113689.03
Sample Date/Time: Friday, September 07, 2012 22:22:58
Autosampler Position: 38
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.03.49307

Not Cor

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6472.971	ug/L	
Be	9	0.006264	5.667	ug/L	0.009
B	10	28.640047	2021.912	ug/L	1.634
B	11	29.495250	10353.330	ug/L	0.623
C	12		409113.052	ug/L	
Na	23	16212.362747	120764622.532	ug/L	264.505
Mg	24	3318.084595	16792437.940	ug/L	42.120
Mg	25	3342.287430	2423820.584	ug/L	21.290
Al	27	1.379817	19095.312	ug/L	0.153
Si	28		4790741.262	ug/L	
P	31	31.840058	23509.374	ug/L	0.101
S	32		104671645.282	ug/L	
Cl	35		11330561.464	ug/L	
K	39	1407.332504	18435269.471	ug/L	18.915
Ca	44	5243.615017	1931379.332	ug/L	118.077
Sc	45		228211.596	ug/L	
Ti	47	0.476912	732.370	ug/L	0.004
Ti	48	5.764616	56896.516	ug/L	0.295
V	51	0.616147	45249.452	ug/L	0.001
ClO	51		46110.772	ug/L	
Cr	52	0.094149	12317.943	ug/L	0.008
Cr	53	1.727052	14758.785	ug/L	0.003
Fe	54	1159.362855	1160113.577	ug/L	12.858
Mn	55	173.294725	3081600.637	ug/L	1.077
Fe	56	1225.304024	24426781.780	ug/L	29.994
Fe	57	1203.152525	438891.450	ug/L	10.275
Co	59	0.302571	4640.564	ug/L	0.006
Ni	60	1.151169	3250.280	ug/L	0.002
Ni	62	1.035502	472.684	ug/L	0.018
Cu	63	0.245326	2031.581	ug/L	0.007
Zn	64	0.207782	1296.680	ug/L	0.003
Cu	65	0.027474	220.005	ug/L	0.005
Zn	66	0.143663	639.362	ug/L	0.001
Zn	68	0.530708	980.396	ug/L	0.021
Ge	72		201916.579	ug/L	
As	75	1.970493	3499.897	ug/L	0.012
Se	74	42.099828	17649.029	mg/L	6.772
ArCl	77		1105.412	ug/L	
Br	79		51787.962	ug/L	

Br	81		84725.896	ug/L	
Y	89		531081.658	ug/L	
Mo	95	1.384686	6402.318	ug/L	0.017
Rh	103		474917.804	ug/L	
Ag	107	-0.068553	1295.773	ug/L	0.016
Ag	109	-0.072119	1199.092	ug/L	0.013
Cd	111	0.021793	154.670	ug/L	0.003
Cd	114	0.018839	343.677	ug/L	0.001
In	115		573071.130	ug/L	
Sb	121	0.020894	427.681	ug/L	0.001
Sb	123	0.020486	326.622	ug/L	0.002
Ba	137	11.015157	54942.744	ug/L	0.352
Ba	138	11.054168	355899.068	ug/L	0.386
Tb	159		649481.130	ug/L	
Ho	165		620968.243	ug/L	
Hg	200	-0.001879	21.000	ug/L	0.000
Hg	202	-0.001085	26.000	ug/L	0.000
Tl	205	-0.003979	1274.769	ug/L	0.005
Pb	208	0.017606	1848.760	ug/L	0.011
Bi	209		463788.231	ug/L	
Se	77	0.724489	1093.399	mg/L	0.108
Se	78	1.234916	20167.298	mg/L	0.356
Se	82	0.387862	80.865	mg/L	0.088

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		100.237
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 98.377
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 98.496
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 99.798
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.09
Sample Date/Time: Friday, September 07, 2012 22:29:24
Autosampler Position: 39
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.09.49308

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6311.528	ug/L	
Be	9	-0.001527	3.667	ug/L	0.008
B	10	2.322888	236.339	ug/L	0.580
B	11	2.379864	1162.419	ug/L	0.246
C	12		364808.222	ug/L	
Na	23	11318.593275	84666608.231	ug/L	644.564
Mg	24	2059.942213	10466802.841	ug/L	139.594
Mg	25	1758.192071	1280232.093	ug/L	111.120
Al	27	8.688900	77157.104	ug/L	0.526
Si	28		2485483.835	ug/L	
P	31	10.894342	14509.688	ug/L	1.785
S	32		104587844.117	ug/L	
Cl	35		11221130.172	ug/L	
K	39	593.268493	8358266.401	ug/L	19.768
Ca	44	6233.172623	2300318.256	ug/L	338.400
Sc	45		229407.081	ug/L	
Ti	47	0.702466	950.393	ug/L	0.067
Ti	48	5.036691	49657.652	ug/L	0.342
V	51	0.542752	44478.998	ug/L	0.081
ClO	51		45689.654	ug/L	
Cr	52	0.063454	12032.712	ug/L	0.041
Cr	53	1.536358	14570.816	ug/L	0.184
Fe	54	340.984341	391703.681	ug/L	7.016
Mn	55	43.179041	773410.342	ug/L	1.974
Fe	56	349.591191	9917879.082	ug/L	16.166
Fe	57	362.623748	142072.509	ug/L	22.664
Co	59	0.018977	990.064	ug/L	0.007
Ni	60	0.309606	931.057	ug/L	0.023
Ni	62	0.176527	123.335	ug/L	0.002
Cu	63	0.217440	1860.209	ug/L	0.025
Zn	64	0.710332	2802.926	ug/L	0.023
Cu	65	0.071541	357.011	ug/L	0.011
Zn	66	0.637434	1502.139	ug/L	0.002
Zn	68	0.701095	1193.090	ug/L	0.038
Ge	72		200192.284	ug/L	
As	75	0.554358	786.930	ug/L	0.059
Se	74	40.856835	17338.513	mg/L	15.536
ArCl	77		1124.414	ug/L	
Br	79		10582.270	ug/L	

Br	81		41706.218	ug/L	
Y	89		530198.213	ug/L	
Mo	95	0.128604	647.030	ug/L	0.001
Rh	103		469506.625	ug/L	
Ag	107	-0.116724	684.699	ug/L	0.005
Ag	109	-0.118259	635.695	ug/L	0.007
Cd	111	0.035756	197.004	ug/L	0.006
Cd	114	0.035755	462.683	ug/L	0.000
In	115		571613.535	ug/L	
Sb	121	0.008021	293.674	ug/L	0.001
Sb	123	0.009377	238.206	ug/L	0.001
Ba	137	2.075657	10375.021	ug/L	0.097
Ba	138	2.083611	67171.515	ug/L	0.100
Tb	159		657159.234	ug/L	
Ho	165		617352.462	ug/L	
Hg	200	-0.001357	22.000	ug/L	0.001
Hg	202	-0.001596	24.334	ug/L	0.003
Tl	205	-0.006727	1196.758	ug/L	0.007
Pb	208	0.051626	3036.564	ug/L	0.008
Bi	209		462732.043	ug/L	
Se	77	0.915145	1120.069	mg/L	0.054
Se	78	1.024408	20067.848	mg/L	0.024
Se	82	0.049659	10.061	mg/L	0.113

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		100.762
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 97.537
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 98.245
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 99.217
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.10
Sample Date/Time: Friday, September 07, 2012 22:35:49
Autosampler Position: 40
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.10.49309

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6323.537	ug/L	
Be	9	0.000241	4.000	ug/L	0.004
B	10	2.150639	220.005	ug/L	0.095
B	11	2.351279	1126.748	ug/L	0.152
C	12		369663.559	ug/L	
Na	23	11379.194832	83189485.067	ug/L	78.993
Mg	24	1752.196666	8702431.691	ug/L	58.709
Mg	25	1507.350617	1072786.137	ug/L	32.727
Al	27	2.677310	28801.773	ug/L	0.063
Si	28		2417958.374	ug/L	
P	31	3.651773	11107.922	ug/L	2.325
S	32		101886254.187	ug/L	
Cl	35		11094007.909	ug/L	
K	39	595.535529	8192123.786	ug/L	5.855
Ca	44	4821.593443	1745092.869	ug/L	91.414
Sc	45		223969.394	ug/L	
Ti	47	0.276573	532.021	ug/L	0.015
Ti	48	4.764106	45816.972	ug/L	0.171
V	51	0.657126	44942.961	ug/L	0.094
ClO	51		45628.383	ug/L	
Cr	52	0.058862	11705.973	ug/L	0.003
Cr	53	1.775896	14548.779	ug/L	0.223
Fe	54	108.957046	168208.495	ug/L	3.057
Mn	55	56.805122	993270.492	ug/L	0.512
Fe	56	119.319636	5931299.162	ug/L	0.208
Fe	57	114.238811	52596.981	ug/L	3.345
Co	59	0.264082	4067.617	ug/L	0.002
Ni	60	0.306213	901.054	ug/L	0.010
Ni	62	0.196280	128.336	ug/L	0.009
Cu	63	0.166892	1502.139	ug/L	0.006
Zn	64	0.478799	2062.777	ug/L	0.007
Cu	65	0.029618	222.338	ug/L	0.005
Zn	66	0.412936	1085.076	ug/L	0.000
Zn	68	0.581335	1022.734	ug/L	0.037
Ge	72		201228.064	ug/L	
As	75	0.210730	139.060	ug/L	0.032
Se	74	23.581593	15585.834	mg/L	9.293
ArCl	77		1138.749	ug/L	
Br	79		9389.290	ug/L	

Br	81		38660.427	ug/L	
Y	89		522775.330	ug/L	
Mo	95	0.130262	658.030	ug/L	0.003
Rh	103		462862.781	ug/L	
Ag	107	-0.120236	639.696	ug/L	0.003
Ag	109	-0.122807	580.691	ug/L	0.000
Cd	111	0.020940	151.336	ug/L	0.003
Cd	114	0.023582	376.012	ug/L	0.002
In	115		570627.829	ug/L	
Sb	121	0.008278	295.674	ug/L	0.001
Sb	123	0.008084	227.533	ug/L	0.002
Ba	137	3.839440	19116.269	ug/L	0.058
Ba	138	3.810841	122442.511	ug/L	0.039
Tb	159		650948.210	ug/L	
Ho	165		615804.257	ug/L	
Hg	200	0.001403	27.667	ug/L	0.000
Hg	202	-0.001984	23.334	ug/L	0.002
Tl	205	-0.002614	1300.440	ug/L	0.003
Pb	208	0.023394	2041.777	ug/L	0.009
Bi	209		464703.237	ug/L	
Se	77	0.142992	1012.056	mg/L	0.553
Se	78	1.139011	20121.989	mg/L	0.024
Se	82	0.128525	26.572	mg/L	0.002

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		98.374
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 98.042
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 98.076
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 98.968
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.11
Sample Date/Time: Friday, September 07, 2012 22:42:14
Autosampler Position: 41
Sample Description: AqTot 1:10 Min LR
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.11.49310

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6270.163	ug/L	
Be	9	-0.003923	3.000	ug/L	0.009
B	10	27.416496	1944.561	ug/L	0.314
B	11	29.246043	10295.263	ug/L	0.871
C	12		415739.042	ug/L	
Na	23	13989.621225	104493391.932	ug/L	77.640
Mg	24	2736.829979	13886708.516	ug/L	71.746
Mg	25	2321.799420	1688595.075	ug/L	22.755
Al	27	-0.521915	4084.659	ug/L	0.018
Si	28		4459593.072	ug/L	
P	31	13.379988	15602.200	ug/L	10.184
S	32		107325348.831	ug/L	
Cl	35		10618436.699	ug/L	
K	39	729.366048	10035194.050	ug/L	32.464
Ca	44	7792.419018	2863829.278	ug/L	258.782
Sc	45		228846.266	ug/L	
Ti	47	0.242454	511.019	ug/L	0.006
Ti	48	5.093806	50229.340	ug/L	0.518
V	51	0.464561	43328.466	ug/L	0.122
ClO	51		44052.264	ug/L	
Cr	52	0.030170	11640.934	ug/L	0.017
Cr	53	1.188490	14063.343	ug/L	0.221
Fe	54	553.199208	591117.132	ug/L	7.929
Mn	55	55.063605	983547.653	ug/L	2.476
Fe	56	576.211683	13670403.397	ug/L	42.575
Fe	57	591.792404	223111.006	ug/L	27.360
Co	59	0.019807	999.732	ug/L	0.004
Ni	60	1.227136	3469.030	ug/L	0.026
Ni	62	1.095095	498.352	ug/L	0.005
Cu	63	0.201298	1755.187	ug/L	0.000
Zn	64	0.372072	1789.052	ug/L	0.027
Cu	65	0.027083	219.338	ug/L	0.002
Zn	66	0.315100	938.391	ug/L	0.031
Zn	68	0.521341	971.395	ug/L	0.027
Ge	72		197461.555	ug/L	
As	75	1.368325	2298.522	ug/L	0.048
Se	74	23.391645	15269.898	mg/L	5.298
ArCl	77		1083.075	ug/L	
Br	79		69071.236	ug/L	

Br	81		102523.754	ug/L	
Y	89		526350.517	ug/L	
Mo	95	0.249923	1181.422	ug/L	0.001
Rh	103		456422.444	ug/L	
Ag	107	-0.112965	730.037	ug/L	0.003
Ag	109	-0.112477	704.368	ug/L	0.007
Cd	111	0.009508	115.669	ug/L	0.001
Cd	114	0.009458	275.340	ug/L	0.002
In	115		569128.875	ug/L	
Sb	121	0.007346	285.341	ug/L	0.001
Sb	123	0.005674	207.787	ug/L	0.005
Ba	137	5.602491	27796.045	ug/L	0.090
Ba	138	5.611641	179686.074	ug/L	0.030
Tb	159		646790.365	ug/L	
Ho	165		614753.477	ug/L	
Hg	200	-0.002585	19.334	ug/L	0.001
Hg	202	-0.002480	22.000	ug/L	0.003
Tl	205	-0.007692	1169.420	ug/L	0.003
Pb	208	0.010191	1573.736	ug/L	0.007
Bi	209		466226.732	ug/L	
Se	77	0.133459	1010.723	mg/L	0.485
Se	78	0.564660	19850.648	mg/L	0.500
Se	82	0.782842	163.556	mg/L	0.072

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		100.516
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 96.207
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 97.818
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 98.800
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.08
Sample Date/Time: Saturday, September 08, 2012 01:23:06
Autosampler Position: 58
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08.49335

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5493.661	ug/L	
Be	9	0.015875	8.333	ug/L	0.008
B	10	73.152619	5110.487	ug/L	0.117
B	11	78.844728	27449.994	ug/L	0.152
C	12		545465.404	ug/L	
Na	23	38364.652053	289558623.679	ug/L	94.012
Mg	24	13315.807138	68289715.736	ug/L	54.200
Mg	25	12982.829065	9539550.587	ug/L	97.296
Al	27	26.816375	223042.818	ug/L	1.076
Si	28		18473503.936	ug/L	
P	31	105.909427	56282.634	ug/L	1.895
S	32		104535967.205	ug/L	
Cl	35		12332754.970	ug/L	
K	39	4818.723457	61637559.434	ug/L	11.141
Ca	44	28026.907637	10339256.378	ug/L	452.611
Sc	45		231252.886	ug/L	
Ti	47	3.122779	3290.630	ug/L	0.173
Ti	48	23.909279	245251.167	ug/L	2.201
V	51	0.430066	43317.727	ug/L	0.090
ClO	51		44173.850	ug/L	
Cr	52	0.058088	12079.163	ug/L	0.011
Cr	53	0.785801	13652.385	ug/L	0.491
Fe	54	3643.544270	3544422.235	ug/L	61.893
Mn	55	165.314735	2979005.155	ug/L	0.091
Fe	56	3515.700730	63333890.968	ug/L	15.537
Fe	57	3583.807420	1298441.645	ug/L	37.668
Co	59	0.075265	1734.516	ug/L	0.001
Ni	60	2.195195	6212.517	ug/L	0.044
Ni	62	1.617770	719.702	ug/L	0.084
Cu	63	0.987576	6864.994	ug/L	0.007
Zn	64	13.870399	42441.587	ug/L	0.041
Cu	65	0.576474	1936.559	ug/L	0.022
Zn	66	14.032845	25014.953	ug/L	0.201
Zn	68	15.031689	18874.763	ug/L	0.190
Ge	72		182440.555	ug/L	
As	75	20.577434	35258.671	ug/L	0.586
Se	74	19.904812	13757.475	mg/L	20.564
ArCl	77		1061.073	ug/L	
Br	79		89317.664	ug/L	

Br	81		122740.255	ug/L	
Y	89		492259.115	ug/L	
Mo	95	1.459838	6095.104	ug/L	0.046
Rh	103		415906.186	ug/L	
Ag	107	-0.118147	620.027	ug/L	0.004
Ag	109	-0.117049	605.360	ug/L	0.002
Cd	111	0.029747	166.003	ug/L	0.002
Cd	114	0.027070	372.678	ug/L	0.001
In	115		530922.159	ug/L	
Sb	121	0.036839	549.689	ug/L	0.004
Sb	123	0.038413	434.664	ug/L	0.000
Ba	137	43.801622	202330.158	ug/L	0.382
Ba	138	43.244007	1289614.486	ug/L	0.430
Tb	159		609206.583	ug/L	
Ho	165		575582.473	ug/L	
Hg	200	0.022179	66.334	ug/L	0.000
Hg	202	0.015002	64.668	ug/L	0.001
Tl	205	-0.013902	946.726	ug/L	0.005
Pb	208	0.142155	5803.450	ug/L	0.010
Bi	209		424780.535	ug/L	
Se	77	0.753087	1097.400	mg/L	0.175
Se	78	-1.762063	18751.428	mg/L	0.169
Se	82	1.095474	229.007	mg/L	0.044

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		101.573
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 88.888
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 91.251
Sb
Sb
Ba
Ba
Tb
> Ho 92.504
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113689.08 MS
Sample Date/Time: Saturday, September 08, 2012 01:42:41
Autosampler Position: 61
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08 MS.49338

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5372.254	ug/L	
Be	9	771.694637	192751.883	ug/L	21.918
B	10	75.777720	4937.723	ug/L	1.063
B	11	77.924867	25322.808	ug/L	1.226
C	12		1055189.559	ug/L	
Na	23	49510.696414	348738321.396	ug/L	888.489
Mg	24	23862.364403	114201217.082	ug/L	497.167
Mg	25	23388.311026	16039192.790	ug/L	232.910
Al	27	10309.384237	77019992.204	ug/L	156.361
Si	28		17693632.412	ug/L	
P	31	10502.470116	4305577.448	ug/L	166.352
S	32		104320478.496	ug/L	
Cl	35		14363109.802	ug/L	
K	39	14659.470727	173172190.790	ug/L	59.126
Ca	44	39431.348262	13562379.984	ug/L	488.688
Sc	45		215818.392	ug/L	
Ti	47	25.091450	22804.132	ug/L	0.537
Ti	48	31.042405	298004.022	ug/L	0.481
V	51	1017.022053	12903292.689	ug/L	6.964
ClO	51		13293366.026	ug/L	
Cr	52	988.326220	10351980.175	ug/L	1.202
Cr	53	846.544567	1099915.112	ug/L	10.360
Fe	54	13701.873825	12261519.161	ug/L	245.338
Mn	55	1143.463269	19213241.493	ug/L	13.299
Fe	56	13047.955083	208945998.411	ug/L	25.523
Fe	57	15342.609281	5146219.987	ug/L	234.988
Co	59	959.718253	11694717.880	ug/L	5.676
Ni	60	930.572868	2429121.633	ug/L	5.502
Ni	62	861.155461	331842.630	ug/L	12.039
Cu	63	875.616668	5291432.924	ug/L	3.056
Zn	64	924.588959	2598170.012	ug/L	3.791
Cu	65	867.681112	2528716.665	ug/L	4.790
Zn	66	841.478193	1378275.870	ug/L	16.832
Zn	68	844.431830	972207.514	ug/L	8.802
Ge	72		177787.047	ug/L	
As	75	983.028521	1652325.706	ug/L	17.057
Se	74	112.321487	22287.824	mg/L	24.842
ArCl	77		128205.634	ug/L	
Br	79		79808.966	ug/L	

Br	81		110732.814	ug/L	
Y	89		463691.548	ug/L	
Mo	95	1112.310075	4483393.666	ug/L	6.117
Rh	103		397540.258	ug/L	
Ag	107	825.359085	9092155.044	ug/L	12.501
Ag	109	834.594891	8835888.202	ug/L	8.385
Cd	111	1062.691381	2857842.082	ug/L	17.368
Cd	114	1051.753549	6477862.307	ug/L	14.293
In	115		497343.143	ug/L	
Sb	121	1086.629914	9782243.271	ug/L	14.030
Sb	123	1074.003203	7399888.903	ug/L	11.033
Ba	137	1122.237633	4854251.298	ug/L	16.886
Ba	138	1108.753717	30963354.581	ug/L	19.498
Tb	159		579173.757	ug/L	
Ho	165		553703.460	ug/L	
Hg	200	1.031823	1955.897	ug/L	0.028
Hg	202	1.027228	2521.375	ug/L	0.007
Tl	205	1065.988805	24268510.183	ug/L	4.035
Pb	208	1039.701218	32840352.071	ug/L	11.916
Bi	209		412244.506	ug/L	
Se	77	883.206956	124539.250	mg/L	1.763
Se	78	861.969061	426806.043	mg/L	0.296
Se	82	846.182036	177151.488	mg/L	5.492

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		94.794
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 86.621
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 85.480
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 88.988
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113689.08 MSD
Sample Date/Time: Saturday, September 08, 2012 01:49:12
Autosampler Position: 62
Sample Description: AqTot 1:1 Min LR + Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08 MSD.49339

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5400.271	ug/L	
Be	9	745.981754	192188.014	ug/L	31.828
B	10	72.017590	4845.339	ug/L	1.633
B	11	77.058764	25838.593	ug/L	1.933
C	12		1027851.302	ug/L	
Na	23	49178.819881	357395178.167	ug/L	871.372
Mg	24	23233.521300	114685715.605	ug/L	1002.638
Mg	25	22946.909500	16231699.205	ug/L	894.130
Al	27	10372.414107	79957338.358	ug/L	153.782
Si	28		17787371.543	ug/L	
P	31	10204.913789	4315511.295	ug/L	404.823
S	32		105377969.384	ug/L	
Cl	35		14272696.304	ug/L	
K	39	14611.629910	178149136.583	ug/L	60.622
Ca	44	38693.483987	13726799.645	ug/L	1740.853
Sc	45		222729.843	ug/L	
Ti	47	25.353056	23761.923	ug/L	1.197
Ti	48	29.568227	292749.321	ug/L	0.668
V	51	996.093797	13035223.146	ug/L	42.559
ClO	51		13413874.829	ug/L	
Cr	52	972.170536	10502748.761	ug/L	41.195
Cr	53	831.403935	1114402.171	ug/L	35.653
Fe	54	13146.252401	12136935.611	ug/L	548.537
Mn	55	1119.837740	19412082.391	ug/L	29.069
Fe	56	12957.965870	214092749.580	ug/L	365.862
Fe	57	14888.538451	5151880.084	ug/L	501.334
Co	59	942.756202	11850800.968	ug/L	29.354
Ni	60	901.714870	2428301.782	ug/L	23.345
Ni	62	831.514495	330549.067	ug/L	25.022
Cu	63	847.644776	5283913.267	ug/L	28.419
Zn	64	902.635273	2616849.325	ug/L	21.629
Cu	65	847.898064	2548935.903	ug/L	30.098
Zn	66	824.613470	1393177.614	ug/L	32.391
Zn	68	828.510983	984020.420	ug/L	25.248
Ge	72		179288.060	ug/L	
As	75	981.496105	1663755.908	ug/L	10.866
Se	74	129.175786	24088.261	mg/L	10.553
ArCl	77		129337.170	ug/L	
Br	79		78589.489	ug/L	

Br	81		109627.796	ug/L	
Y	89		460866.887	ug/L	
Mo	95	1095.362411	4452383.558	ug/L	6.329
Rh	103		392012.363	ug/L	
Ag	107	825.945585	9149493.146	ug/L	39.740
Ag	109	846.390739	9009423.538	ug/L	3.356
Cd	111	1058.762085	2862862.780	ug/L	4.137
Cd	114	1054.190397	6528246.833	ug/L	7.459
In	115		500016.337	ug/L	
Sb	121	1074.813835	9728657.503	ug/L	2.533
Sb	123	1076.545153	7457634.817	ug/L	8.654
Ba	137	1122.774616	4883006.167	ug/L	15.212
Ba	138	1117.426428	31375587.270	ug/L	20.003
Tb	159		581034.023	ug/L	
Ho	165		561999.392	ug/L	
Hg	200	1.034379	1990.238	ug/L	0.010
Hg	202	1.045383	2603.732	ug/L	0.022
Tl	205	1045.787274	24165484.721	ug/L	2.703
Pb	208	1028.995531	32990683.435	ug/L	2.690
Bi	209		413263.358	ug/L	
Se	77	906.605455	127812.343	mg/L	16.021
Se	78	862.912010	427251.523	mg/L	3.980
Se	82	848.732643	177685.468	mg/L	0.718

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		97.829
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 87.352
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 85.939
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 90.321
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.01
Sample Date/Time: Saturday, September 08, 2012 05:55:46
Autosampler Position: 88
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01.49377

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5752.490	ug/L	
Be	9	-0.000813	4.000	ug/L	0.003
B	10	55.059366	4023.597	ug/L	0.288
B	11	59.180842	21535.694	ug/L	0.757
C	12		591306.756	ug/L	
Na	23	19807.316114	155594663.852	ug/L	20.519
Mg	24	10708.388980	57156782.283	ug/L	319.830
Mg	25	10448.820330	7990810.127	ug/L	168.305
Al	27	104.679659	880699.896	ug/L	0.041
Si	28		27163900.027	ug/L	
P	31	52.734789	34324.774	ug/L	1.080
S	32		117126094.573	ug/L	
Cl	35		11102727.030	ug/L	
K	39	3600.707199	48188691.026	ug/L	30.552
Ca	44	32657.643399	12531829.931	ug/L	261.349
Sc	45		240676.283	ug/L	
Ti	47	8.002882	8312.215	ug/L	0.126
Ti	48	32.729286	350476.986	ug/L	0.747
V	51	0.190754	41717.919	ug/L	0.022
ClO	51		42927.888	ug/L	
Cr	52	0.137047	13492.166	ug/L	0.033
Cr	53	-0.353284	12582.494	ug/L	0.073
Fe	54	482.538956	551598.384	ug/L	2.065
Mn	55	476.535622	8931368.592	ug/L	2.159
Fe	56	493.271105	12928391.139	ug/L	19.889
Fe	57	590.981037	234423.882	ug/L	0.965
Co	59	0.203715	3550.729	ug/L	0.003
Ni	60	1.181671	3516.715	ug/L	0.019
Ni	62	0.540998	286.007	ug/L	0.009
Cu	63	0.940618	6827.965	ug/L	0.008
Zn	64	4.221748	13943.499	ug/L	0.047
Cu	65	0.806293	2763.114	ug/L	0.008
Zn	66	3.430365	6676.184	ug/L	0.022
Zn	68	3.986432	5469.366	ug/L	0.021
Ge	72		187688.352	ug/L	
As	75	17.555874	30915.402	ug/L	0.199
Se	74	17.662530	13937.084	mg/L	5.617
ArCl	77		987.730	ug/L	
Br	79		26445.035	ug/L	

Br	81		56562.015	ug/L	
Y	89		487879.231	ug/L	
Mo	95	2.171466	9299.514	ug/L	0.033
Rh	103		418801.807	ug/L	
Ag	107	-0.072499	1122.747	ug/L	0.001
Ag	109	-0.074822	1050.738	ug/L	0.000
Cd	111	0.009901	105.668	ug/L	0.007
Cd	114	0.014858	283.674	ug/L	0.002
In	115		515302.680	ug/L	
Sb	121	0.113305	1246.765	ug/L	0.000
Sb	123	0.109774	931.585	ug/L	0.004
Ba	137	18.889173	84717.456	ug/L	0.057
Ba	138	18.779428	543676.308	ug/L	0.253
Tb	159		611052.444	ug/L	
Ho	165		584296.637	ug/L	
Hg	200	0.015472	54.001	ug/L	0.004
Hg	202	0.011765	57.334	ug/L	0.003
Tl	205	-0.005477	1163.753	ug/L	0.006
Pb	208	0.194694	7644.326	ug/L	0.009
Bi	209		443164.129	ug/L	
Se	77	-0.257382	956.050	mg/L	0.013
Se	78	-0.937864	19140.807	mg/L	0.380
Se	82	0.499071	104.148	mg/L	0.137

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.712
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 91.445
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 88.567
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.905
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.02
Sample Date/Time: Saturday, September 08, 2012 06:02:17
Autosampler Position: 89
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.02.49378

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5892.579	ug/L	
Be	9	0.001532	4.667	ug/L	0.003
B	10	28.686155	2142.607	ug/L	0.203
B	11	30.650553	11368.217	ug/L	0.409
C	12		609942.894	ug/L	
Na	23	23734.462018	187029282.679	ug/L	360.780
Mg	24	12915.366910	69146365.299	ug/L	399.641
Mg	25	12852.841292	9861328.928	ug/L	29.496
Al	27	8.685894	81256.369	ug/L	0.285
Si	28		26519198.308	ug/L	
P	31	31.977657	24936.647	ug/L	0.275
S	32		115374251.177	ug/L	
Cl	35		12024237.073	ug/L	
K	39	5588.071652	74473057.351	ug/L	13.065
Ca	44	28368.380453	10923693.538	ug/L	676.064
Sc	45		241451.156	ug/L	
Ti	47	1.396570	1698.842	ug/L	0.080
Ti	48	24.377878	261447.114	ug/L	2.066
V	51	-0.030484	38718.334	ug/L	0.053
ClO	51		39604.477	ug/L	
Cr	52	-0.078979	11006.157	ug/L	0.004
Cr	53	-0.504793	12404.915	ug/L	0.077
Fe	54	2333.989853	2397350.573	ug/L	45.170
Mn	55	567.107214	10661996.124	ug/L	6.010
Fe	56	2212.537884	43206853.910	ug/L	7.539
Fe	57	2306.305855	877285.175	ug/L	26.877
Co	59	0.194934	3442.686	ug/L	0.003
Ni	60	0.918192	2758.780	ug/L	0.027
Ni	62	0.244912	159.336	ug/L	0.019
Cu	63	0.440833	3471.364	ug/L	0.008
Zn	64	2.774051	9436.673	ug/L	0.102
Cu	65	0.248943	954.726	ug/L	0.007
Zn	66	2.019301	4112.638	ug/L	0.004
Zn	68	2.900872	4088.960	ug/L	0.050
Ge	72		182282.715	ug/L	
As	75	6.904448	11664.632	ug/L	0.045
Se	74	13.026346	13074.381	mg/L	16.982
ArCl	77		954.393	ug/L	
Br	79		32035.464	ug/L	

Br	81		61569.286	ug/L	
Y	89		485224.895	ug/L	
Mo	95	1.067218	4468.142	ug/L	0.006
Rh	103		408068.735	ug/L	
Ag	107	-0.096790	835.380	ug/L	0.001
Ag	109	-0.098577	780.708	ug/L	0.004
Cd	111	0.023382	141.669	ug/L	0.002
Cd	114	0.018510	303.341	ug/L	0.003
In	115		509084.669	ug/L	
Sb	121	0.115597	1252.766	ug/L	0.005
Sb	123	0.116964	970.759	ug/L	0.005
Ba	137	37.040504	164068.669	ug/L	0.532
Ba	138	36.703624	1049608.986	ug/L	0.068
Tb	159		602552.487	ug/L	
Ho	165		580100.845	ug/L	
Hg	200	0.002563	28.334	ug/L	0.001
Hg	202	-0.001068	24.334	ug/L	0.001
Tl	205	-0.006760	1125.415	ug/L	0.006
Pb	208	0.063209	3240.258	ug/L	0.003
Bi	209		429030.347	ug/L	
Se	77	-0.381307	938.715	mg/L	0.216
Se	78	-1.372208	18935.608	mg/L	0.519
Se	82	0.327755	68.282	mg/L	0.022

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		106.052
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.811
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 87.498
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 93.230
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.03
Sample Date/Time: Saturday, September 08, 2012 06:08:49
Autosampler Position: 90
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.03.49379

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5935.277	ug/L	
Be	9	0.002829	5.333	ug/L	0.010
B	10	205.193283	15874.354	ug/L	1.646
B	11	223.406645	86269.294	ug/L	1.129
C	12		859039.363	ug/L	
Na	23	S	S	ug/L	S
Mg	24	27233.969959	156177045.644	ug/L	193.541
Mg	25	26725.038538	21957840.092	ug/L	367.706
Al	27	17.813093	168773.714	ug/L	0.100
Si	28		44973859.312	ug/L	
P	31	227.510394	122604.520	ug/L	3.733
S	32		110406039.268	ug/L	
Cl	35		13968917.059	ug/L	
K	39	11074.126050	157076361.138	ug/L	159.993
Ca	44	45434.962228	18723911.750	ug/L	121.166
Sc	45		258632.583	ug/L	
Ti	47	3.356226	3934.228	ug/L	0.221
Ti	48	35.866138	415563.977	ug/L	11.913
V	51	0.246329	45636.384	ug/L	0.130
ClO	51		46489.032	ug/L	
Cr	52	0.214093	15455.095	ug/L	0.038
Cr	53	-0.157400	13809.620	ug/L	0.467
Fe	54	9505.972747	10218666.130	ug/L	13.019
Mn	55	1326.719892	26703947.617	ug/L	28.343
Fe	56	9345.717431	180536490.375	ug/L	330.486
Fe	57	10978.981051	4415620.594	ug/L	243.205
Co	59	2.228162	33363.115	ug/L	0.051
Ni	60	8.702580	27290.509	ug/L	0.251
Ni	62	7.841070	3675.446	ug/L	0.297
Cu	63	1.756281	13238.098	ug/L	0.041
Zn	64	1.591661	6126.792	ug/L	0.030
Cu	65	0.285448	1149.751	ug/L	0.007
Zn	66	1.174394	2744.775	ug/L	0.068
Zn	68	3.699924	5478.038	ug/L	0.164
Ge	72		176670.905	ug/L	
As	75	20.313705	33707.724	ug/L	0.032
Se	74	-9.362611	10526.591	mg/L	42.489
ArCl	77		1229.095	ug/L	
Br	79		435351.740	ug/L	

Br	81		486387.301	ug/L	
Y	89		479778.110	ug/L	
Mo	95	13.760855	55175.157	ug/L	0.031
Rh	103		388527.670	ug/L	
Ag	107	-0.108826	675.032	ug/L	0.003
Ag	109	-0.111564	617.360	ug/L	0.003
Cd	111	0.057712	228.005	ug/L	0.008
Cd	114	0.061426	554.022	ug/L	0.006
In	115		491256.685	ug/L	
Sb	121	0.111936	1176.088	ug/L	0.007
Sb	123	0.107721	873.870	ug/L	0.001
Ba	137	111.466055	476303.036	ug/L	1.957
Ba	138	119.280295	3290753.195	ug/L	1.341
Tb	159		581117.762	ug/L	
Ho	165		557916.034	ug/L	
Hg	200	0.010018	41.334	ug/L	0.000
Hg	202	0.008697	47.334	ug/L	0.004
Tl	205	-0.011683	969.728	ug/L	0.004
Pb	208	0.097467	4206.759	ug/L	0.003
Bi	209		412270.978	ug/L	
Se	77	2.125826	1289.425	mg/L	0.013
Se	78	-0.879337	19168.456	mg/L	0.566
Se	82	4.993711	1045.120	mg/L	0.625

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		113.599
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

86.077

84.434

89.665

Sample ID: 113689.04
Sample Date/Time: Saturday, September 08, 2012 06:15:21
Autosampler Position: 91
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.04.49380

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5501.667	ug/L	
Be	9	0.006891	6.000	ug/L	0.011
B	10	11.629441	898.720	ug/L	0.699
B	11	12.477215	4748.287	ug/L	0.521
C	12		623452.679	ug/L	
Na	23	8397.405783	64843092.501	ug/L	178.489
Mg	24	3796.131998	19913481.754	ug/L	77.445
Mg	25	3825.120407	2874926.910	ug/L	104.674
Al	27	0.850944	15458.011	ug/L	0.086
Si	28		30458084.478	ug/L	
P	31	2.989783	11408.355	ug/L	4.078
S	32		118666439.792	ug/L	
Cl	35		10528718.204	ug/L	
K	39	1959.231857	26221266.865	ug/L	21.589
Ca	44	13611.474004	5152314.300	ug/L	71.994
Sc	45		236615.682	ug/L	
Ti	47	1.267349	1536.812	ug/L	0.071
Ti	48	11.195038	116567.784	ug/L	0.374
V	51	0.071369	39355.084	ug/L	0.017
ClO	51		40046.079	ug/L	
Cr	52	0.107761	12926.964	ug/L	0.005
Cr	53	-0.211684	12567.140	ug/L	0.136
Fe	54	1.032461	72335.047	ug/L	2.511
Mn	55	0.105534	5005.096	ug/L	0.006
Fe	56	-11.656469	4007447.879	ug/L	5.917
Fe	57	22.752977	21995.441	ug/L	2.260
Co	59	0.077164	1799.196	ug/L	0.006
Ni	60	4.108303	11830.813	ug/L	0.048
Ni	62	3.870789	1687.507	ug/L	0.044
Cu	63	0.448544	3450.356	ug/L	0.024
Zn	64	2.717507	9074.268	ug/L	0.010
Cu	65	0.418420	1476.468	ug/L	0.015
Zn	66	2.301463	4535.843	ug/L	0.039
Zn	68	2.666264	3711.128	ug/L	0.007
Ge	72		182881.685	ug/L	
As	75	0.013135	-214.925	ug/L	0.017
Se	74	44.620184	16267.383	mg/L	25.480
ArCl	77		945.059	ug/L	
Br	79		19380.511	ug/L	

Br	81		48880.950	ug/L	
Y	89		475166.664	ug/L	
Mo	95	0.592014	2512.706	ug/L	0.003
Rh	103		407369.429	ug/L	
Ag	107	-0.097462	826.379	ug/L	0.002
Ag	109	-0.097948	786.042	ug/L	0.003
Cd	111	0.015559	119.669	ug/L	0.008
Cd	114	0.013599	272.007	ug/L	0.000
In	115		508407.101	ug/L	
Sb	121	0.011702	295.008	ug/L	0.000
Sb	123	0.011509	226.618	ug/L	0.001
Ba	137	3.482690	15449.272	ug/L	0.130
Ba	138	3.427116	98118.412	ug/L	0.076
Tb	159		591467.405	ug/L	
Ho	165		565853.427	ug/L	
Hg	200	0.001366	25.334	ug/L	0.001
Hg	202	0.000765	28.334	ug/L	0.001
Tl	205	-0.003218	1177.089	ug/L	0.008
Pb	208	0.008105	1381.388	ug/L	0.002
Bi	209		410631.852	ug/L	
Se	77	-0.953262	858.707	mg/L	0.485
Se	78	-1.572407	18841.028	mg/L	0.266
Se	82	0.280336	58.354	mg/L	0.262

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		103.928
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 89.103
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 87.382
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 90.941
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.05
Sample Date/Time: Saturday, September 08, 2012 06:21:53
Autosampler Position: 92
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.05.49381

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5945.944	ug/L	
Be	9	-0.000217	4.333	ug/L	0.001
B	10	8.946780	751.039	ug/L	0.102
B	11	9.460393	3900.209	ug/L	0.221
C	12		651234.425	ug/L	
Na	23	8176.853531	66745051.973	ug/L	24.681
Mg	24	3847.140336	21327699.590	ug/L	107.023
Mg	25	3859.336650	3066424.265	ug/L	1.839
Al	27	2.641947	31845.529	ug/L	0.017
Si	28		30602348.822	ug/L	
P	31	-0.648375	10363.618	ug/L	1.042
S	32		109452302.203	ug/L	
Cl	35		10282308.251	ug/L	
K	39	1830.208834	25954075.064	ug/L	22.253
Ca	44	15518.291686	6203852.771	ug/L	416.319
Sc	45		250038.999	ug/L	
Ti	47	1.224588	1580.487	ug/L	0.012
Ti	48	11.784013	129503.505	ug/L	2.362
V	51	0.031953	41007.691	ug/L	0.051
ClO	51		41900.090	ug/L	
Cr	52	-0.009269	12238.789	ug/L	0.039
Cr	53	-0.236985	13243.438	ug/L	0.168
Fe	54	19.838283	95878.560	ug/L	0.908
Mn	55	9.636870	190813.285	ug/L	0.026
Fe	56	0.468272	4457381.427	ug/L	1.295
Fe	57	50.043010	33849.761	ug/L	4.601
Co	59	0.012072	983.730	ug/L	0.002
Ni	60	1.090911	3379.329	ug/L	0.017
Ni	62	0.713187	374.011	ug/L	0.002
Cu	63	0.324371	2779.119	ug/L	0.004
Zn	64	2.176258	7827.217	ug/L	0.024
Cu	65	0.290462	1129.081	ug/L	0.005
Zn	66	1.739178	3726.801	ug/L	0.047
Zn	68	1.983800	3010.862	ug/L	0.087
Ge	72		182990.026	ug/L	
As	75	0.203412	113.634	ug/L	0.064
Se	74	13.466896	13168.038	mg/L	28.097
ArCl	77		1024.068	ug/L	
Br	79		18123.581	ug/L	

Br	81		46161.733	ug/L	
Y	89		477893.005	ug/L	
Mo	95	0.217605	960.727	ug/L	0.001
Rh	103		408469.781	ug/L	
Ag	107	-0.086600	950.393	ug/L	0.007
Ag	109	-0.090436	869.050	ug/L	0.000
Cd	111	0.001468	81.335	ug/L	0.005
Cd	114	-0.001170	179.337	ug/L	0.001
In	115		509198.786	ug/L	
Sb	121	0.013747	314.342	ug/L	0.004
Sb	123	0.014031	244.873	ug/L	0.000
Ba	137	2.654125	11810.785	ug/L	0.019
Ba	138	2.676765	76840.465	ug/L	0.058
Tb	159		596178.660	ug/L	
Ho	165		573072.883	ug/L	
Hg	200	0.000510	24.000	ug/L	0.002
Hg	202	0.001046	29.334	ug/L	0.000
Tl	205	-0.007591	1093.410	ug/L	0.005
Pb	208	0.024461	1934.767	ug/L	0.000
Bi	209		444229.544	ug/L	
Se	77	0.142991	1012.056	mg/L	0.499
Se	78	-2.267251	18512.761	mg/L	0.523
Se	82	0.406621	84.793	mg/L	0.156

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		109.824
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 89.156
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 87.518
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 92.101
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.06
Sample Date/Time: Saturday, September 08, 2012 06:28:24
Autosampler Position: 93
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.06.49382

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5677.773	ug/L	
Be	9	0.045894	17.667	ug/L	0.010
B	10	15.893154	1264.767	ug/L	0.129
B	11	17.268274	6785.599	ug/L	0.206
C	12		657032.929	ug/L	
Na	23	13279.782168	108166592.011	ug/L	147.220
Mg	24	3825.635812	21166913.225	ug/L	26.209
Mg	25	3788.563210	3003750.365	ug/L	13.281
Al	27	1084.006031	9368535.198	ug/L	28.256
Si	28		33814979.635	ug/L	
P	31	59.822693	38910.414	ug/L	5.801
S	32		104037150.749	ug/L	
Cl	35		10406145.047	ug/L	
K	39	2190.799942	30796009.881	ug/L	35.945
Ca	44	24584.026112	9784526.861	ug/L	727.910
Sc	45		249511.739	ug/L	
Ti	47	64.088884	66853.918	ug/L	1.277
Ti	48	79.425327	884725.405	ug/L	1.323
V	51	2.890161	82725.856	ug/L	0.078
ClO	51		84091.013	ug/L	
Cr	52	3.010811	48743.144	ug/L	0.062
Cr	53	2.043376	16601.311	ug/L	0.339
Fe	54	2374.700594	2519460.225	ug/L	33.990
Mn	55	255.582436	4967300.487	ug/L	1.033
Fe	56	2245.689481	45231845.717	ug/L	105.435
Fe	57	2380.717040	935087.885	ug/L	79.100
Co	59	1.088602	16143.816	ug/L	0.021
Ni	60	3.303830	10048.651	ug/L	0.044
Ni	62	3.331707	1539.813	ug/L	0.039
Cu	63	2.276945	16410.629	ug/L	0.047
Zn	64	6.756722	22683.872	ug/L	0.146
Cu	65	2.222180	7633.280	ug/L	0.047
Zn	66	5.972942	11733.351	ug/L	0.081
Zn	68	6.345080	8804.018	ug/L	0.350
Ge	72		178413.728	ug/L	
As	75	6.136888	10121.739	ug/L	0.020
Se	74	53.981695	16738.931	mg/L	16.703
ArCl	77		1047.071	ug/L	
Br	79		56691.102	ug/L	

Br	81		86797.181	ug/L	
Y	89		492512.270	ug/L	
Mo	95	1.005390	4123.309	ug/L	0.003
Rh	103		398335.191	ug/L	
Ag	107	-0.093846	853.382	ug/L	0.003
Ag	109	-0.096893	785.042	ug/L	0.001
Cd	111	0.036697	175.337	ug/L	0.006
Cd	114	0.041057	438.015	ug/L	0.005
In	115		500291.624	ug/L	
Sb	121	0.041240	557.689	ug/L	0.002
Sb	123	0.044115	449.258	ug/L	0.004
Ba	137	10.657729	46428.386	ug/L	0.151
Ba	138	10.657219	299686.262	ug/L	0.129
Tb	159		585447.819	ug/L	
Ho	165		556483.707	ug/L	
Hg	200	0.002988	28.000	ug/L	0.003
Hg	202	0.000849	28.000	ug/L	0.002
Tl	205	0.021515	1726.849	ug/L	0.007
Pb	208	0.902134	29740.730	ug/L	0.006
Bi	209		415511.893	ug/L	
Se	77	0.219252	1022.724	mg/L	0.094
Se	78	-1.950427	18662.439	mg/L	0.162
Se	82	0.809512	169.140	mg/L	0.262

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
|>	Sc		109.593
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

86.926

85.987

89.435

Sample ID: 113689.07
Sample Date/Time: Saturday, September 08, 2012 06:34:56
Autosampler Position: 94
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.07.49383

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6122.061	ug/L	
Be	9	0.000006	4.000	ug/L	0.011
B	10	9.371561	710.702	ug/L	0.155
B	11	10.048085	3739.473	ug/L	0.105
C	12		608522.380	ug/L	
Na	23	15794.844757	117062010.708	ug/L	10.661
Mg	24	4314.075306	21723713.498	ug/L	7.472
Mg	25	4307.851334	3108356.355	ug/L	17.581
Al	27	3.882287	38669.261	ug/L	0.001
Si	28		20536240.341	ug/L	
P	31	13.359488	15441.368	ug/L	3.081
S	32		103502419.507	ug/L	
Cl	35		10063129.756	ug/L	
K	39	2625.689811	33408752.051	ug/L	35.422
Ca	44	22599.983378	8189967.546	ug/L	374.681
Sc	45		227066.160	ug/L	
Ti	47	0.912033	1140.083	ug/L	0.044
Ti	48	16.746084	168264.493	ug/L	1.173
V	51	0.413269	42319.366	ug/L	0.051
ClO	51		43595.722	ug/L	
Cr	52	-0.056742	10594.331	ug/L	0.021
Cr	53	-0.359952	11861.186	ug/L	0.218
Fe	54	40.033722	105980.449	ug/L	1.219
Mn	55	28.733646	510827.770	ug/L	0.123
Fe	56	27.926501	4501589.507	ug/L	3.995
Fe	57	84.068104	42701.015	ug/L	4.136
Co	59	0.042776	1286.771	ug/L	0.000
Ni	60	0.601236	1723.514	ug/L	0.018
Ni	62	0.174590	121.335	ug/L	0.021
Cu	63	0.434395	3223.270	ug/L	0.008
Zn	64	5.736064	17630.178	ug/L	0.062
Cu	65	0.317166	1107.078	ug/L	0.002
Zn	66	5.449308	9777.353	ug/L	0.044
Zn	68	5.702036	7237.285	ug/L	0.087
Ge	72		177099.099	ug/L	
As	75	7.102198	11664.274	ug/L	0.066
Se	74	28.678118	14199.886	mg/L	6.799
ArCl	77		967.728	ug/L	
Br	79		32283.259	ug/L	

Br	81		61001.382	ug/L	
Y	89		466683.357	ug/L	
Mo	95	2.737472	11047.486	ug/L	0.002
Rh	103		395758.909	ug/L	
Ag	107	-0.099920	766.373	ug/L	0.000
Ag	109	-0.102241	709.368	ug/L	0.003
Cd	111	0.030964	155.670	ug/L	0.000
Cd	114	0.029878	359.011	ug/L	0.003
In	115		487609.946	ug/L	
Sb	121	0.052282	641.029	ug/L	0.001
Sb	123	0.047011	457.465	ug/L	0.003
Ba	137	6.651500	28253.124	ug/L	0.250
Ba	138	6.568652	180118.122	ug/L	0.131
Tb	159		574679.712	ug/L	
Ho	165		552967.901	ug/L	
Hg	200	0.117603	242.339	ug/L	0.002
Hg	202	0.082526	226.005	ug/L	0.000
Tl	205	-0.003306	1152.085	ug/L	0.004
Pb	208	0.033184	2142.121	ug/L	0.003
Bi	209		425477.842	ug/L	
Se	77	0.009533	993.388	mg/L	0.310
Se	78	-1.360468	18941.155	mg/L	0.279
Se	82	0.514297	107.335	mg/L	0.192

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.734
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 86.286
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 83.807
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 88.870
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.09
Sample Date/Time: Saturday, September 08, 2012 06:41:27
Autosampler Position: 95
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.09.49384

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5477.650	ug/L	
Be	9	0.007366	6.000	ug/L	0.003
B	10	16.215085	1186.423	ug/L	0.203
B	11	17.821371	6436.008	ug/L	0.358
C	12		618807.206	ug/L	
Na	23	S	S	ug/L	S
Mg	24	18001.032228	91696611.773	ug/L	126.560
Mg	25	17927.550415	13085503.063	ug/L	165.277
Al	27	81.626300	657279.813	ug/L	0.217
Si	28		22312052.977	ug/L	
P	31	74.053451	42047.900	ug/L	0.801
S	32		107736373.592	ug/L	
Cl	35		16659461.019	ug/L	
K	39	5158.613809	65474212.435	ug/L	86.497
Ca	44	55566.738561	20330553.419	ug/L	515.320
Sc	45		229717.032	ug/L	
Ti	47	5.895613	5917.318	ug/L	0.195
Ti	48	66.599151	682784.300	ug/L	0.121
V	51	0.799228	48011.931	ug/L	0.019
ClO	51		48877.890	ug/L	
Cr	52	0.122255	12710.946	ug/L	0.019
Cr	53	1.697009	14814.877	ug/L	0.019
Fe	54	3100.630193	3007011.672	ug/L	7.481
Mn	55	417.320348	7464446.397	ug/L	10.752
Fe	56	3027.652503	54738909.586	ug/L	55.116
Fe	57	3142.482568	1132168.547	ug/L	145.700
Co	59	0.142772	2598.064	ug/L	0.008
Ni	60	1.754957	4948.396	ug/L	0.050
Ni	62	0.716460	345.010	ug/L	0.023
Cu	63	1.581829	10641.332	ug/L	0.007
Zn	64	5.489839	17100.497	ug/L	0.010
Cu	65	0.504082	1699.843	ug/L	0.001
Zn	66	4.873437	8886.430	ug/L	0.097
Zn	68	5.371428	6917.033	ug/L	0.008
Ge	72		172190.318	ug/L	
As	75	6.744123	10757.186	ug/L	0.023
Se	74	18.840708	12897.541	mg/L	2.740
ArCl	77		1383.119	ug/L	
Br	79		69709.177	ug/L	

Br	81		100212.430	ug/L	
Y	89		459234.803	ug/L	
Mo	95	0.957321	3791.829	ug/L	0.001
Rh	103		380028.571	ug/L	
Ag	107	-0.061508	1155.085	ug/L	0.002
Ag	109	-0.060179	1120.080	ug/L	0.009
Cd	111	0.051776	206.004	ug/L	0.002
Cd	114	0.051145	477.017	ug/L	0.000
In	115		476943.814	ug/L	
Sb	121	0.027237	410.680	ug/L	0.002
Sb	123	0.025638	305.742	ug/L	0.004
Ba	137	21.506019	89244.130	ug/L	0.516
Ba	138	21.313425	570956.522	ug/L	0.568
Tb	159		566808.562	ug/L	
Ho	165		541623.067	ug/L	
Hg	200	0.020841	60.001	ug/L	0.002
Hg	202	0.013793	58.001	ug/L	0.001
Tl	205	-0.017072	820.712	ug/L	0.006
Pb	208	0.402721	13515.740	ug/L	0.001
Bi	209		401581.075	ug/L	
Se	77	3.098200	1425.445	mg/L	0.337
Se	78	-1.528446	18861.796	mg/L	0.311
Se	82	0.865541	180.870	mg/L	0.191

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		100.898
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 83.894
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 81.974
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 87.047
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.10
Sample Date/Time: Saturday, September 08, 2012 07:13:40
Autosampler Position: 96
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.10.49389

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5410.945	ug/L	
Be	9	0.002965	4.667	ug/L	0.000
B	10	19.567889	1369.784	ug/L	0.744
B	11	20.838367	7224.276	ug/L	0.358
C	12		619421.399	ug/L	
Na	23	S	S	ug/L	S
Mg	24	15784.710908	77786588.960	ug/L	164.996
Mg	25	16004.182162	11301763.507	ug/L	21.610
Al	27	27.817299	221958.967	ug/L	0.112
Si	28		21946072.111	ug/L	
P	31	30.705397	22409.837	ug/L	2.220
S	32		112513039.981	ug/L	
Cl	35		15923958.900	ug/L	
K	39	5423.730002	66560989.680	ug/L	53.250
Ca	44	47423.329000	16795281.577	ug/L	1920.708
Sc	45		222235.788	ug/L	
Ti	47	2.074037	2190.619	ug/L	0.001
Ti	48	32.711906	323036.739	ug/L	6.831
V	51	0.746908	45760.350	ug/L	0.096
ClO	51		46465.604	ug/L	
Cr	52	0.054133	11562.750	ug/L	0.023
Cr	53	1.832565	14508.384	ug/L	0.432
Fe	54	889.035904	881802.286	ug/L	22.867
Mn	55	549.438824	9507136.371	ug/L	9.812
Fe	56	942.395743	19207174.532	ug/L	11.555
Fe	57	1055.586437	376505.423	ug/L	19.853
Co	59	2.126836	27407.862	ug/L	0.010
Ni	60	2.687229	7293.331	ug/L	0.038
Ni	62	1.777709	754.706	ug/L	0.026
Cu	63	1.502986	9804.049	ug/L	0.004
Zn	64	3.133512	9726.363	ug/L	0.017
Cu	65	0.335150	1137.083	ug/L	0.023
Zn	66	2.443098	4499.825	ug/L	0.015
Zn	68	3.513594	4489.820	ug/L	0.018
Ge	72		169665.959	ug/L	
As	75	3.562946	5495.823	ug/L	0.028
Se	74	53.534727	15885.081	mg/L	46.600
ArCl	77		1327.777	ug/L	
Br	79		57783.547	ug/L	

Br	81		87722.429	ug/L	
Y	89		458603.821	ug/L	
Mo	95	1.135820	4422.787	ug/L	0.011
Rh	103		378762.942	ug/L	
Ag	107	0.171102	3551.082	ug/L	0.085
Ag	109	0.167181	3371.009	ug/L	0.083
Cd	111	0.031346	151.003	ug/L	0.009
Cd	114	0.024740	316.009	ug/L	0.000
In	115		469513.202	ug/L	
Sb	121	0.052793	621.694	ug/L	0.001
Sb	123	0.052005	472.799	ug/L	0.000
Ba	137	39.348959	160725.354	ug/L	0.877
Ba	138	38.693419	1020369.912	ug/L	0.755
Tb	159		563376.084	ug/L	
Ho	165		533135.508	ug/L	
Hg	200	0.034125	83.001	ug/L	0.009
Hg	202	0.028280	91.001	ug/L	0.003
Tl	205	-0.011283	935.725	ug/L	0.006
Pb	208	0.149783	5611.403	ug/L	0.001
Bi	209		384551.168	ug/L	
Se	77	2.459482	1336.098	mg/L	0.216
Se	78	-1.844421	18712.519	mg/L	0.203
Se	82	0.752937	157.296	mg/L	0.093

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		97.612
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 82.664
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 80.697
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 85.682
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.11
Sample Date/Time: Saturday, September 08, 2012 07:20:12
Autosampler Position: 97
Sample Description: AqTot Be/Min rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.11.49390

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5519.012	ug/L	
Be	9	0.008718	6.667	ug/L	0.014
B	10	211.711322	15309.038	ug/L	9.015
B	11	230.250596	83111.560	ug/L	10.639
C	12		914913.170	ug/L	
Na	23	S	S	ug/L	S
Mg	24	23262.012073	124765391.400	ug/L	365.600
Mg	25	22842.409023	17553456.999	ug/L	752.028
Al	27	1.076014	17698.987	ug/L	0.034
Si	28		40195719.632	ug/L	
P	31	39.534412	28443.935	ug/L	0.606
S	32		102859943.911	ug/L	
Cl	35		14352621.583	ug/L	
K	39	6054.395949	80754959.154	ug/L	86.202
Ca	44	63620.154228	24501394.445	ug/L	2432.514
Sc	45		241883.915	ug/L	
Ti	47	1.829908	2137.606	ug/L	0.143
Ti	48	75.475301	815247.705	ug/L	2.874
V	51	0.344838	44109.860	ug/L	0.035
ClO	51		44560.722	ug/L	
Cr	52	0.066697	12732.749	ug/L	0.019
Cr	53	0.376216	13698.120	ug/L	0.145
Fe	54	4839.542280	4900936.733	ug/L	37.650
Mn	55	500.677922	9429784.889	ug/L	7.857
Fe	56	4657.261432	86350013.285	ug/L	42.884
Fe	57	4754.699706	1796756.986	ug/L	154.818
Co	59	0.106250	2237.298	ug/L	0.004
Ni	60	9.879193	28979.744	ug/L	0.022
Ni	62	8.646531	3787.493	ug/L	0.070
Cu	63	1.449757	10310.280	ug/L	0.002
Zn	64	1.235161	4609.439	ug/L	0.009
Cu	65	0.150967	636.362	ug/L	0.008
Zn	66	0.842091	1959.231	ug/L	0.024
Zn	68	2.352740	3388.999	ug/L	0.058
Ge	72		170131.883	ug/L	
As	75	15.340773	24459.332	ug/L	0.125
Se	74	27.406521	13531.628	mg/L	33.410
ArCl	77		1323.443	ug/L	
Br	79		570534.227	ug/L	

Br	81		640407.768	ug/L	
Y	89		455785.961	ug/L	
Mo	95	2.083046	8088.678	ug/L	0.007
Rh	103		376206.754	ug/L	
Ag	107	-0.082240	933.057	ug/L	0.007
Ag	109	-0.083803	878.385	ug/L	0.004
Cd	111	0.003040	80.001	ug/L	0.000
Cd	114	0.011836	244.006	ug/L	0.001
In	115		475473.868	ug/L	
Sb	121	0.080619	869.384	ug/L	0.008
Sb	123	0.071963	610.348	ug/L	0.002
Ba	137	57.050115	235980.187	ug/L	0.595
Ba	138	56.583085	1511066.201	ug/L	0.348
Tb	159		559267.691	ug/L	
Ho	165		536664.181	ug/L	
Hg	200	0.009988	39.667	ug/L	0.003
Hg	202	0.009062	46.334	ug/L	0.001
Tl	205	-0.017666	800.377	ug/L	0.004
Pb	208	0.002635	1143.373	ug/L	0.001
Bi	209		385603.734	ug/L	
Se	77	2.345086	1320.096	mg/L	0.539
Se	78	-2.310791	18492.191	mg/L	0.304
Se	82	6.544536	1369.791	mg/L	0.067

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		106.242
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 82.891
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 81.721
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 86.250
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.01
Sample Date/Time: Saturday, September 08, 2012 11:01:38
Autosampler Position: 123
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01.49424

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5341.569	ug/L	
Be	9	-0.004347	2.667	ug/L	0.008
B	10	50.572261	3303.300	ug/L	2.103
B	11	54.411110	17690.043	ug/L	2.885
C	12		542528.858	ug/L	
Na	23	20070.317198	140666569.580	ug/L	811.293
Mg	24	10519.404897	50092934.251	ug/L	427.999
Mg	25	10569.445730	7211983.211	ug/L	434.660
Al	27	9.906413	81387.573	ug/L	0.032
Si	28		23954241.285	ug/L	
P	31	40.310103	25571.802	ug/L	1.979
S	32		104899105.586	ug/L	
Cl	35		9715249.448	ug/L	
K	39	3513.042401	41968537.930	ug/L	147.082
Ca	44	32272.960447	11046198.642	ug/L	2003.942
Sc	45		214855.589	ug/L	
Ti	47	1.162280	1302.773	ug/L	0.026
Ti	48	26.127114	249712.226	ug/L	2.355
V	51	0.093540	36003.847	ug/L	0.082
ClO	51		36552.035	ug/L	
Cr	52	-0.046417	10130.525	ug/L	0.016
Cr	53	-0.267878	11336.177	ug/L	0.332
Fe	54	323.299824	351230.498	ug/L	5.848
Mn	55	476.569485	7968580.595	ug/L	21.886
Fe	56	335.640862	9069345.711	ug/L	26.968
Fe	57	417.848330	151581.896	ug/L	3.676
Co	59	0.101549	1929.891	ug/L	0.004
Ni	60	0.879658	2354.328	ug/L	0.005
Ni	62	0.202155	125.335	ug/L	0.004
Cu	63	0.317248	2344.659	ug/L	0.009
Zn	64	3.696292	10972.691	ug/L	0.129
Cu	65	0.190158	679.032	ug/L	0.001
Zn	66	3.046473	5331.616	ug/L	0.113
Zn	68	3.600926	4441.463	ug/L	0.034
Ge	72		171376.290	ug/L	
As	75	17.244987	27724.022	ug/L	0.101
Se	74	57.299628	16386.930	mg/L	3.555
ArCl	77		917.389	ug/L	
Br	79		24886.627	ug/L	

Br	81		52685.754	ug/L	
Y	89		445786.781	ug/L	
Mo	95	2.074480	8114.368	ug/L	0.012
Rh	103		383407.435	ug/L	
Ag	107	-0.128017	456.016	ug/L	0.000
Ag	109	-0.129180	423.681	ug/L	0.000
Cd	111	0.002698	80.001	ug/L	0.003
Cd	114	0.003117	194.337	ug/L	0.005
In	115		480301.496	ug/L	
Sb	121	0.026591	407.680	ug/L	0.005
Sb	123	0.024992	303.875	ug/L	0.001
Ba	137	17.595687	73550.745	ug/L	0.235
Ba	138	17.633106	475811.956	ug/L	0.258
Tb	159		557669.083	ug/L	
Ho	165		536888.530	ug/L	
Hg	200	0.014538	48.001	ug/L	0.001
Hg	202	0.006929	41.334	ug/L	0.001
Tl	205	0.000294	1198.758	ug/L	0.005
Pb	208	0.048082	2537.165	ug/L	0.005
Bi	209		396472.899	ug/L	
Se	77	-0.343175	944.049	mg/L	0.485
Se	78	-2.182499	18552.801	mg/L	0.292
Se	82	0.390649	81.449	mg/L	0.061

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		94.371
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 83.498
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 82.551
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 86.286
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.01 MS
Sample Date/Time: Saturday, September 08, 2012 11:08:11
Autosampler Position: 124
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01 MS.49425

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5402.944	ug/L	
Be	9	803.220137	205297.936	ug/L	22.426
B	10	47.926735	3223.270	ug/L	1.491
B	11	50.226829	16819.380	ug/L	1.995
C	12		1038488.824	ug/L	
Na	23	29233.987217	210620769.665	ug/L	1528.854
Mg	24	19966.955915	97724756.440	ug/L	1286.977
Mg	25	19685.938715	13812587.573	ug/L	692.157
Al	27	10247.038502	78340484.983	ug/L	245.620
Si	28		23541004.484	ug/L	
P	31	9975.396172	4185626.251	ug/L	205.557
S	32		109775535.267	ug/L	
Cl	35		13480962.170	ug/L	
K	39	13359.747866	161653998.624	ug/L	59.322
Ca	44	42048.408981	14796212.526	ug/L	1342.291
Sc	45		220935.142	ug/L	
Ti	47	23.375966	21769.938	ug/L	0.139
Ti	48	32.486783	319078.445	ug/L	1.670
V	51	989.901133	12847932.650	ug/L	46.946
ClO	51		13031874.413	ug/L	
Cr	52	974.554123	10440424.026	ug/L	54.609
Cr	53	829.509668	1102920.358	ug/L	31.622
Fe	54	10026.123308	9194356.282	ug/L	584.480
Mn	55	1406.023564	24170228.449	ug/L	52.302
Fe	56	9713.923880	160149585.428	ug/L	376.511
Fe	57	11497.084789	3948439.147	ug/L	472.747
Co	59	933.407973	11636337.532	ug/L	37.358
Ni	60	905.912712	2419298.327	ug/L	35.513
Ni	62	845.922049	333586.348	ug/L	19.073
Cu	63	859.531231	5312851.142	ug/L	44.922
Zn	64	912.164831	2621957.544	ug/L	44.924
Cu	65	854.428477	2547160.932	ug/L	41.172
Zn	66	822.723149	1378503.619	ug/L	38.598
Zn	68	828.332493	975577.580	ug/L	37.966
Ge	72		172846.385	ug/L	
As	75	1018.926359	1665133.793	ug/L	24.657
Se	74	144.931836	24693.976	mg/L	5.201
ArCl	77		130021.852	ug/L	
Br	79		20994.444	ug/L	

Br	81		48771.638	ug/L	
Y	89		445278.150	ug/L	
Mo	95	1100.083287	4310668.194	ug/L	36.322
Rh	103		372943.143	ug/L	
Ag	107	399.344837	4153121.560	ug/L	20.686
Ag	109	402.423485	4024474.856	ug/L	4.088
Cd	111	1094.232109	2777929.991	ug/L	44.434
Cd	114	1086.632524	6318393.567	ug/L	38.393
In	115		469729.342	ug/L	
Sb	121	1112.897521	9455961.277	ug/L	58.757
Sb	123	1109.263887	7214408.203	ug/L	48.043
Ba	137	1125.380704	4595031.417	ug/L	50.269
Ba	138	1109.917181	29259725.541	ug/L	48.206
Tb	159		555638.548	ug/L	
Ho	165		531198.096	ug/L	
Hg	200	1.049691	1908.553	ug/L	0.030
Hg	202	1.022903	2408.676	ug/L	0.022
Tl	205	1099.261797	24007535.782	ug/L	18.007
Pb	208	1066.436496	32314911.224	ug/L	20.157
Bi	209		418597.894	ug/L	
Se	77	906.210225	127757.056	mg/L	23.225
Se	78	865.906864	428666.389	mg/L	24.114
Se	82	857.950744	179615.317	mg/L	10.453

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		97.041
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In
Sb
Sb
Ba
Ba
Tb
> Ho
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

84.214

80.734

85.371

Sample ID: 113689.01 MSD
Sample Date/Time: Saturday, September 08, 2012 11:14:44
Autosampler Position: 125
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01 MSD.49426

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5543.025	ug/L	
Be	9	793.866184	205532.352	ug/L	13.140
B	10	46.430243	3165.583	ug/L	0.750
B	11	49.311309	16730.882	ug/L	1.772
C	12		1028026.749	ug/L	
Na	23	28969.064491	211329919.502	ug/L	1957.681
Mg	24	20131.335288	99831271.758	ug/L	751.233
Mg	25	20124.587559	14298114.091	ug/L	937.174
Al	27	10166.482579	78678110.978	ug/L	563.239
Si	28		23949783.178	ug/L	
P	31	10141.062349	4307502.131	ug/L	476.843
S	32		111000628.485	ug/L	
Cl	35		13440778.393	ug/L	
K	39	13274.936230	162571996.070	ug/L	511.622
Ca	44	41958.412156	14950605.080	ug/L	1785.899
Sc	45		223749.292	ug/L	
Ti	47	21.821501	20592.170	ug/L	0.363
Ti	48	28.057695	279335.622	ug/L	1.813
V	51	972.196959	12782591.655	ug/L	33.345
ClO	51		12950467.159	ug/L	
Cr	52	951.276136	10324654.998	ug/L	34.949
Cr	53	806.636858	1086566.026	ug/L	29.404
Fe	54	9912.254548	9211658.717	ug/L	244.197
Mn	55	1390.303748	24200060.976	ug/L	70.821
Fe	56	9684.237624	161689887.993	ug/L	459.297
Fe	57	11175.669119	3887369.677	ug/L	471.407
Co	59	917.020876	11579208.351	ug/L	30.760
Ni	60	885.241202	2394263.059	ug/L	35.208
Ni	62	821.940325	328297.903	ug/L	13.224
Cu	63	844.743456	5290393.054	ug/L	21.284
Zn	64	896.546290	2610591.190	ug/L	31.069
Cu	65	842.715752	2545193.029	ug/L	22.381
Zn	66	815.027296	1383416.699	ug/L	24.581
Zn	68	819.137551	977511.724	ug/L	13.869
Ge	72		171830.509	ug/L	
As	75	1016.252459	1650585.936	ug/L	26.096
Se	74	137.178085	23791.769	mg/L	35.537
ArCl	77		129462.620	ug/L	
Br	79		19569.907	ug/L	

Br	81		46165.717	ug/L	
Y	89		438902.284	ug/L	
Mo	95	1115.226872	4343062.211	ug/L	34.105
Rh	103		370625.952	ug/L	
Ag	107	381.456198	3964460.707	ug/L	14.228
Ag	109	372.744047	3723827.808	ug/L	10.848
Cd	111	1095.621396	2779380.043	ug/L	9.503
Cd	114	1081.112622	6281176.108	ug/L	6.556
In	115		469114.239	ug/L	
Sb	121	1114.084318	9460638.092	ug/L	10.461
Sb	123	1109.416738	7210352.322	ug/L	7.232
Ba	137	1127.707620	4601104.859	ug/L	28.663
Ba	138	1119.464134	29488961.422	ug/L	27.778
Tb	159		550330.374	ug/L	
Ho	165		522617.552	ug/L	
Hg	200	1.058724	1893.883	ug/L	0.007
Hg	202	1.071364	2480.697	ug/L	0.042
Tl	205	1113.226489	23919017.871	ug/L	26.706
Pb	208	1089.016541	32466525.472	ug/L	17.271
Bi	209		406274.385	ug/L	
Se	77	891.585072	125711.220	mg/L	3.526
Se	78	867.959527	429636.134	mg/L	5.771
Se	82	846.235225	177162.623	mg/L	4.562

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		98.277
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
| Zn
> Ge 83.719
| As
| Se
| ArCl
| Br
| Br
| Y
| Mo
| Rh
| Ag
| Ag
| Cd
| Cd
> In 80.628
| Sb
| Sb
| Ba
| Ba
| Tb
> Ho 83.992
| Hg
| Hg
| Tl
| Pb
| Bi
Se
Se
Se

Sample ID: 113689.02
Sample Date/Time: Saturday, September 08, 2012 12:06:36
Autosampler Position: 129
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.02.49434

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5532.350	ug/L	
Be	9	-0.004810	2.667	ug/L	0.007
B	10	25.135123	1747.852	ug/L	1.347
B	11	27.950286	9633.198	ug/L	0.330
C	12		528411.397	ug/L	
Na	23	22211.169786	162114267.196	ug/L	525.997
Mg	24	12609.432609	62538928.919	ug/L	141.874
Mg	25	12457.749051	8853837.578	ug/L	87.134
Al	27	1.755689	21624.515	ug/L	0.037
Si	28		24063554.070	ug/L	
P	31	24.002609	19703.345	ug/L	3.965
S	32		106802589.185	ug/L	
Cl	35		9766110.990	ug/L	
K	39	5465.080899	67491336.867	ug/L	1.446
Ca	44	27755.684382	9900617.107	ug/L	527.799
Sc	45		223674.691	ug/L	
Ti	47	1.063898	1265.101	ug/L	0.091
Ti	48	22.705876	225369.618	ug/L	0.128
V	51	-0.016379	36046.351	ug/L	0.073
ClO	51		36714.354	ug/L	
Cr	52	-0.032114	10702.483	ug/L	0.014
Cr	53	-0.527482	11459.666	ug/L	0.170
Fe	54	2182.317833	2082080.330	ug/L	152.666
Mn	55	544.558858	9483291.658	ug/L	9.297
Fe	56	2142.497922	38880787.931	ug/L	23.110
Fe	57	2251.668768	793668.867	ug/L	35.411
Co	59	0.172771	2907.828	ug/L	0.012
Ni	60	0.788328	2203.956	ug/L	0.005
Ni	62	0.225851	140.002	ug/L	0.010
Cu	63	0.315750	2431.683	ug/L	0.010
Zn	64	11.042415	32812.222	ug/L	0.205
Cu	65	0.161205	619.361	ug/L	0.006
Zn	66	10.591114	18354.360	ug/L	0.195
Zn	68	11.526385	14073.693	ug/L	0.309
Ge	72		173319.281	ug/L	
As	75	6.836176	10979.284	ug/L	0.066
Se	74	25.470404	13595.915	mg/L	10.997
ArCl	77		912.388	ug/L	
Br	79		24140.264	ug/L	

Br	81		53391.889	ug/L	
Y	89		447433.046	ug/L	
Mo	95	1.039030	4137.649	ug/L	0.006
Rh	103		381361.399	ug/L	
Ag	107	0.015963	1965.911	ug/L	0.061
Ag	109	0.009171	1818.212	ug/L	0.063
Cd	111	0.015610	112.002	ug/L	0.005
Cd	114	0.011937	244.006	ug/L	0.002
In	115		474367.471	ug/L	
Sb	121	0.048442	590.692	ug/L	0.001
Sb	123	0.052596	481.588	ug/L	0.000
Ba	137	36.797277	151875.306	ug/L	0.215
Ba	138	36.450641	971314.280	ug/L	0.208
Tb	159		563548.879	ug/L	
Ho	165		548978.162	ug/L	
Hg	200	-0.002362	17.667	ug/L	0.000
Hg	202	0.001963	30.334	ug/L	0.003
Tl	205	0.008365	1407.457	ug/L	0.006
Pb	208	0.043315	2444.488	ug/L	0.007
Bi	209		415496.553	ug/L	
Se	77	-0.247850	957.384	mg/L	0.189
Se	78	-1.647056	18805.761	mg/L	0.241
Se	82	0.311534	64.886	mg/L	0.236

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		98.244
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 84.444
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 81.531
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.229
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.03
Sample Date/Time: Saturday, September 08, 2012 12:13:09
Autosampler Position: 130
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.03.49435

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5696.452	ug/L	
Be	9	-0.008172	2.000	ug/L	0.006
B	10	199.091703	14353.139	ug/L	3.030
B	11	210.338848	75717.713	ug/L	1.570
C	12		1127946.734	ug/L	
Na	23	S	S	ug/L	S
Mg	24	25939.019488	138549023.295	ug/L	1035.907
Mg	25	25128.882849	19235505.629	ug/L	861.497
Al	27	1.841554	24007.392	ug/L	0.103
Si	28		41451122.574	ug/L	
P	31	193.345514	98595.119	ug/L	4.614
S	32		102213477.783	ug/L	
Cl	35		12675833.444	ug/L	
K	39	10865.467076	143643959.052	ug/L	16.528
Ca	44	43409.483529	16678817.650	ug/L	190.486
Sc	45		241100.374	ug/L	
Ti	47	2.363988	2667.085	ug/L	0.019
Ti	48	28.470932	303342.503	ug/L	6.788
V	51	0.145585	41100.108	ug/L	0.153
ClO	51		41713.569	ug/L	
Cr	52	0.252238	14846.313	ug/L	0.053
Cr	53	-0.432420	12472.008	ug/L	0.541
Fe	54	9160.907968	9170357.794	ug/L	496.463
Mn	55	1291.063783	24202532.814	ug/L	68.997
Fe	56	9012.724359	162406524.232	ug/L	353.992
Fe	57	10335.726636	3873144.959	ug/L	476.781
Co	59	2.629533	36543.336	ug/L	0.103
Ni	60	8.238498	24082.769	ug/L	0.254
Ni	62	7.417506	3241.277	ug/L	0.481
Cu	63	1.539857	10874.276	ug/L	0.064
Zn	64	2.022222	7055.747	ug/L	0.113
Cu	65	0.150234	631.362	ug/L	0.009
Zn	66	1.699146	3516.382	ug/L	0.102
Zn	68	4.036707	5537.074	ug/L	0.208
Ge	72		167140.067	ug/L	
As	75	19.032978	29864.324	ug/L	0.063
Se	74	-1.158571	10704.360	mg/L	12.588
ArCl	77		1114.079	ug/L	
Br	79		362040.509	ug/L	

Br	81		408415.626	ug/L	
Y	89		444652.746	ug/L	
Mo	95	12.324997	46748.356	ug/L	0.247
Rh	103		361826.495	ug/L	
Ag	107	-0.114401	575.357	ug/L	0.002
Ag	109	-0.113080	563.356	ug/L	0.000
Cd	111	0.036243	160.003	ug/L	0.004
Cd	114	0.032709	355.010	ug/L	0.002
In	115		459980.621	ug/L	
Sb	121	0.295794	2632.407	ug/L	0.001
Sb	123	0.292939	1998.550	ug/L	0.005
Ba	137	105.355060	421560.950	ug/L	0.802
Ba	138	112.280451	2900575.071	ug/L	0.481
Tb	159		544527.630	ug/L	
Ho	165		523379.140	ug/L	
Hg	200	0.009948	38.667	ug/L	0.004
Hg	202	0.011581	51.001	ug/L	0.003
Tl	205	-0.009567	955.727	ug/L	0.004
Pb	208	0.034725	2073.447	ug/L	0.001
Bi	209		390397.324	ug/L	
Se	77	0.543368	1068.063	mg/L	0.741
Se	78	-2.406085	18447.171	mg/L	0.224
Se	82	4.317211	903.491	mg/L	0.164

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		105.898
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 81.434
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 79.058
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 84.114
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.04
Sample Date/Time: Saturday, September 08, 2012 12:19:42
Autosampler Position: 131
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.04.49436

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5206.828	ug/L	
Be	9	0.004184	4.667	ug/L	0.016
B	10	10.152292	704.034	ug/L	0.179
B	11	10.980186	3739.474	ug/L	0.470
C	12		517137.425	ug/L	
Na	23	8078.226042	55212380.194	ug/L	131.236
Mg	24	3599.417914	16710975.043	ug/L	92.876
Mg	25	3537.103413	2353018.137	ug/L	106.654
Al	27	0.840349	13604.883	ug/L	0.138
Si	28		25369601.107	ug/L	
P	31	3.192262	10193.415	ug/L	2.372
S	32		98498292.813	ug/L	
Cl	35		9329207.188	ug/L	
K	39	1850.879765	21966459.337	ug/L	73.638
Ca	44	12462.825637	4175387.478	ug/L	496.926
Sc	45		209388.150	ug/L	
Ti	47	1.000298	1128.081	ug/L	0.008
Ti	48	10.669458	98128.996	ug/L	0.745
V	51	0.170714	36043.340	ug/L	0.069
ClO	51		36715.360	ug/L	
Cr	52	0.148336	11850.807	ug/L	0.019
Cr	53	-0.093897	11267.759	ug/L	0.315
Fe	54	-7.053326	57063.528	ug/L	0.551
Mn	55	0.416501	9497.389	ug/L	0.009
Fe	56	-1.839376	3697409.636	ug/L	0.474
Fe	57	19.007651	18260.148	ug/L	0.367
Co	59	0.285336	4053.277	ug/L	0.011
Ni	60	3.853397	9824.738	ug/L	0.053
Ni	62	3.537203	1369.117	ug/L	0.098
Cu	63	0.252252	1904.218	ug/L	0.011
Zn	64	2.716561	8026.664	ug/L	0.066
Cu	65	0.211567	722.369	ug/L	0.001
Zn	66	2.391314	4156.325	ug/L	0.114
Zn	68	2.692711	3312.637	ug/L	0.144
Ge	72		165806.454	ug/L	
As	75	0.184481	73.089	ug/L	0.053
Se	74	40.774247	14374.199	mg/L	8.846
ArCl	77		800.377	ug/L	
Br	79		16781.330	ug/L	

Br	81		42951.356	ug/L	
Y	89		425808.169	ug/L	
Mo	95	0.310517	1219.427	ug/L	0.020
Rh	103		373174.953	ug/L	
Ag	107	-0.116779	559.356	ug/L	0.002
Ag	109	-0.115659	546.022	ug/L	0.002
Cd	111	0.007858	90.668	ug/L	0.007
Cd	114	0.009731	227.338	ug/L	0.006
In	115		466785.332	ug/L	
Sb	121	0.060495	683.033	ug/L	0.006
Sb	123	0.057649	506.505	ug/L	0.004
Ba	137	3.197772	13034.468	ug/L	0.013
Ba	138	3.165988	83264.361	ug/L	0.029
Tb	159		544522.578	ug/L	
Ho	165		522674.901	ug/L	
Hg	200	0.003576	27.334	ug/L	0.003
Hg	202	0.002748	30.667	ug/L	0.002
Tl	205	0.008475	1342.113	ug/L	0.004
Pb	208	0.053051	2617.173	ug/L	0.004
Bi	209		391899.418	ug/L	
Se	77	-1.363161	801.369	mg/L	0.229
Se	78	-3.218302	18063.453	mg/L	0.603
Se	82	0.277152	57.688	mg/L	0.073

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
[	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		91.969
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 80.784
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 80.228
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 84.001
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.05
Sample Date/Time: Saturday, September 08, 2012 12:26:15
Autosampler Position: 132
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.05.49437

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		4994.705	ug/L	
Be	9	-0.005251	2.333	ug/L	0.002
B	10	8.303267	571.357	ug/L	0.830
B	11	8.407666	2850.475	ug/L	0.200
C	12		541317.660	ug/L	
Na	23	8261.157795	54781007.942	ug/L	147.961
Mg	24	3915.925257	17639103.497	ug/L	171.729
Mg	25	3852.062876	2486438.425	ug/L	87.222
Al	27	0.731470	12439.748	ug/L	0.009
Si	28		25332034.125	ug/L	
P	31	-1.786084	7977.633	ug/L	0.954
S	32		94064812.145	ug/L	
Cl	35		8697070.886	ug/L	
K	39	1875.294990	21587219.361	ug/L	26.925
Ca	44	15226.353625	4944796.758	ug/L	21.159
Sc	45		203139.218	ug/L	
Ti	47	0.938602	1042.404	ug/L	0.056
Ti	48	12.471627	111600.155	ug/L	1.556
V	51	0.193815	35247.886	ug/L	0.018
ClO	51		35983.770	ug/L	
Cr	52	0.095780	10980.476	ug/L	0.014
Cr	53	0.156527	11237.053	ug/L	0.011
Fe	54	0.929019	62039.220	ug/L	3.185
Mn	55	4.618846	75664.341	ug/L	0.065
Fe	56	0.798775	3626080.481	ug/L	0.859
Fe	57	30.328812	21280.338	ug/L	0.345
Co	59	0.967271	11754.379	ug/L	0.002
Ni	60	0.999003	2519.374	ug/L	0.007
Ni	62	0.685271	293.674	ug/L	0.065
Cu	63	0.249637	1832.870	ug/L	0.006
Zn	64	2.948558	8401.415	ug/L	0.061
Cu	65	0.218462	719.702	ug/L	0.001
Zn	66	2.557679	4289.722	ug/L	0.052
Zn	68	2.787742	3317.639	ug/L	0.062
Ge	72		159008.467	ug/L	
As	75	0.103976	-48.468	ug/L	0.095
Se	74	47.482812	14292.196	mg/L	56.705
ArCl	77		927.390	ug/L	
Br	79		16733.571	ug/L	

Br	81		42238.007	ug/L	
Y	89		413680.782	ug/L	
Mo	95	0.208844	802.377	ug/L	0.016
Rh	103		360729.985	ug/L	
Ag	107	-0.120399	500.352	ug/L	0.001
Ag	109	-0.123232	451.349	ug/L	0.000
Cd	111	0.023659	125.002	ug/L	0.016
Cd	114	0.026145	308.675	ug/L	0.011
In	115		447474.074	ug/L	
Sb	121	0.136529	1270.768	ug/L	0.000
Sb	123	0.136545	974.675	ug/L	0.001
Ba	137	2.525893	9879.798	ug/L	0.015
Ba	138	2.523634	63679.377	ug/L	0.002
Tb	159		524072.338	ug/L	
Ho	165		499640.787	ug/L	
Hg	200	0.000159	20.334	ug/L	0.001
Hg	202	0.000459	24.334	ug/L	0.004
Tl	205	0.013226	1380.786	ug/L	0.004
Pb	208	0.038321	2082.783	ug/L	0.008
Bi	209		378391.127	ug/L	
Se	77	-0.266915	954.717	mg/L	0.270
Se	78	-2.770888	18274.826	mg/L	1.088
Se	82	0.164400	34.083	mg/L	0.086

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		89.225
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 77.472
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 76.909
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 80.299
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.07
Sample Date/Time: Saturday, September 08, 2012 12:32:48
Autosampler Position: 133
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.07.49438

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5273.529	ug/L	
Be	9	0.004151	4.333	ug/L	0.011
B	10	8.454958	556.023	ug/L	0.353
B	11	8.782356	2839.472	ug/L	0.163
C	12		558901.664	ug/L	
Na	23	15161.545044	96323462.930	ug/L	245.356
Mg	24	4151.581223	17916625.919	ug/L	157.557
Mg	25	4132.008233	2555446.985	ug/L	112.281
Al	27	7.304030	56208.865	ug/L	0.001
Si	28		16759332.060	ug/L	
P	31	11.073536	12383.011	ug/L	2.426
S	32		88134882.108	ug/L	
Cl	35		7840069.705	ug/L	
K	39	2512.290406	27433149.563	ug/L	61.029
Ca	44	21010.465593	6527896.521	ug/L	638.962
Sc	45		194670.567	ug/L	
Ti	47	0.709578	813.044	ug/L	0.029
Ti	48	16.183652	139435.342	ug/L	1.405
V	51	0.619449	38627.278	ug/L	0.091
ClO	51		39444.451	ug/L	
Cr	52	-0.003957	9580.816	ug/L	0.010
Cr	53	0.139682	10747.123	ug/L	0.187
Fe	54	29.823104	82629.231	ug/L	4.038
Mn	55	30.427617	463582.658	ug/L	0.306
Fe	56	40.510876	4037113.827	ug/L	6.611
Fe	57	73.010386	33270.759	ug/L	1.687
Co	59	0.961508	11201.344	ug/L	0.004
Ni	60	0.625389	1533.811	ug/L	0.038
Ni	62	0.240515	126.669	ug/L	0.077
Cu	63	0.296960	2014.577	ug/L	0.002
Zn	64	2.115963	5939.539	ug/L	0.091
Cu	65	0.205369	655.697	ug/L	0.018
Zn	66	1.779442	2960.512	ug/L	0.078
Zn	68	2.029272	2391.338	ug/L	0.076
Ge	72		159845.091	ug/L	
As	75	6.676417	9883.622	ug/L	0.038
Se	74	32.226736	13124.523	mg/L	0.098
ArCl	77		895.053	ug/L	
Br	79		33417.362	ug/L	

Br	81		56972.241	ug/L	
Y	89		413660.746	ug/L	
Mo	95	2.588973	9432.652	ug/L	0.023
Rh	103		358053.878	ug/L	
Ag	107	-0.118951	517.353	ug/L	0.002
Ag	109	-0.118761	496.352	ug/L	0.001
Cd	111	0.043233	173.337	ug/L	0.005
Cd	114	0.045078	415.680	ug/L	0.009
In	115		449701.579	ug/L	
Sb	121	0.228969	2029.247	ug/L	0.008
Sb	123	0.226378	1538.807	ug/L	0.013
Ba	137	6.153683	24118.526	ug/L	0.039
Ba	138	6.113664	154652.997	ug/L	0.040
Tb	159		524145.504	ug/L	
Ho	165		497588.949	ug/L	
Hg	200	0.098172	185.337	ug/L	0.001
Hg	202	0.077173	191.671	ug/L	0.001
Tl	205	0.020176	1516.142	ug/L	0.008
Pb	208	0.040705	2139.788	ug/L	0.008
Bi	209		375396.747	ug/L	
Se	77	-0.343176	944.049	mg/L	0.162
Se	78	-3.481384	17939.165	mg/L	0.114
Se	82	0.503201	105.012	mg/L	0.118

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		85.505
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 77.879
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 77.292
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 79.970
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.08
Sample Date/Time: Saturday, September 08, 2012 12:39:21
Autosampler Position: 134
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08.49439

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5340.239	ug/L	
Be	9	0.012184	7.000	ug/L	0.002
B	10	130.282731	8639.523	ug/L	1.184
B	11	137.128964	45377.108	ug/L	2.926
C	12		724619.545	ug/L	
Na	23	69743.717398	503042136.466	ug/L	3100.836
Mg	24	23668.367239	116002287.679	ug/L	372.516
Mg	25	22892.614422	16077144.695	ug/L	605.537
Al	27	1.715154	21059.802	ug/L	0.023
Si	28		31029792.125	ug/L	
P	31	182.419771	85852.022	ug/L	0.733
S	32		98350643.142	ug/L	
Cl	35		12653151.092	ug/L	
K	39	8570.907754	104067154.377	ug/L	52.348
Ca	44	50422.075504	17752652.424	ug/L	1102.080
Sc	45		221015.709	ug/L	
Ti	47	1.942186	2057.253	ug/L	0.038
Ti	48	37.543303	369485.719	ug/L	0.009
V	51	0.218490	38669.790	ug/L	0.017
ClO	51		39137.791	ug/L	
Cr	52	0.009829	11025.963	ug/L	0.015
Cr	53	0.006826	12029.075	ug/L	0.146
Fe	54	6122.994071	5648339.662	ug/L	40.743
Mn	55	286.657736	4934754.620	ug/L	4.741
Fe	56	5873.256864	98476987.559	ug/L	163.788
Fe	57	7015.074080	2416638.095	ug/L	4.586
Co	59	0.957412	12665.610	ug/L	0.005
Ni	60	3.849758	10361.339	ug/L	0.087
Ni	62	2.878780	1185.089	ug/L	0.012
Cu	63	0.822002	5536.074	ug/L	0.003
Zn	64	1.549259	5115.151	ug/L	0.051
Cu	65	0.122058	495.352	ug/L	0.009
Zn	66	1.263667	2497.368	ug/L	0.027
Zn	68	3.276023	4185.338	ug/L	0.045
Ge	72		161722.035	ug/L	
As	75	37.564336	57229.237	ug/L	0.583
Se	74	6.291951	10992.080	mg/L	30.816
ArCl	77		1136.749	ug/L	
Br	79		113829.686	ug/L	

Br	81		147407.641	ug/L	
Y	89		427326.137	ug/L	
Mo	95	2.753887	10145.427	ug/L	0.089
Rh	103		352983.746	ug/L	
Ag	107	-0.123301	473.350	ug/L	0.001
Ag	109	-0.126552	421.347	ug/L	0.000
Cd	111	0.024893	128.669	ug/L	0.000
Cd	114	0.022759	291.341	ug/L	0.002
In	115		449201.112	ug/L	
Sb	121	0.165531	1511.474	ug/L	0.002
Sb	123	0.162530	1140.072	ug/L	0.015
Ba	137	86.303951	337247.716	ug/L	0.878
Ba	138	91.795390	2315833.482	ug/L	1.236
Tb	159		535776.706	ug/L	
Ho	165		507133.331	ug/L	
Hg	200	0.052405	110.335	ug/L	0.001
Hg	202	0.034467	100.335	ug/L	0.002
Tl	205	-0.004756	1026.402	ug/L	0.008
Pb	208	0.045257	2313.803	ug/L	0.002
Bi	209		388459.405	ug/L	
Se	77	0.962809	1126.736	mg/L	0.121
Se	78	-2.923332	18202.807	mg/L	1.004
Se	82	1.325358	277.134	mg/L	0.076

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
| >	Sc		97.077
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 78.794
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 77.206
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 81.504
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.09
Sample Date/Time: Saturday, September 08, 2012 12:45:54
Autosampler Position: 135
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.09.49440

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5057.420	ug/L	
Be	9	0.000176	3.667	ug/L	0.003
B	10	16.997780	1117.080	ug/L	0.141
B	11	18.396628	5973.022	ug/L	0.337
C	12		558744.699	ug/L	
Na	23	104228.252790	703685788.834	ug/L	1298.926
Mg	24	18281.668835	83870907.369	ug/L	206.132
Mg	25	17898.064693	11763016.503	ug/L	438.559
Al	27	16.593840	126270.501	ug/L	0.085
Si	28		20363265.788	ug/L	
P	31	74.039467	37889.425	ug/L	3.142
S	32		108538470.454	ug/L	
Cl	35		15284430.298	ug/L	
K	39	5290.208835	60427284.774	ug/L	189.103
Ca	44	55885.492311	18406158.298	ug/L	2164.887
Sc	45		206919.142	ug/L	
Ti	47	1.630837	1657.834	ug/L	0.005
Ti	48	52.033853	483533.397	ug/L	20.584
V	51	0.759355	42725.604	ug/L	0.181
ClO	51		43616.831	ug/L	
Cr	52	0.072021	10938.384	ug/L	0.047
Cr	53	1.949380	13641.033	ug/L	0.670
Fe	54	3127.011771	2728959.368	ug/L	143.201
Mn	55	426.079761	6860209.864	ug/L	19.637
Fe	56	2974.122600	48447401.827	ug/L	214.082
Fe	57	3073.523477	997097.543	ug/L	155.068
Co	59	1.080435	13287.503	ug/L	0.036
Ni	60	1.884555	4778.970	ug/L	0.078
Ni	62	0.700938	304.341	ug/L	0.097
Cu	63	1.290633	7890.836	ug/L	0.069
Zn	64	4.737876	13365.444	ug/L	0.256
Cu	65	0.214566	721.703	ug/L	0.010
Zn	66	4.159561	6878.670	ug/L	0.215
Zn	68	4.714840	5502.053	ug/L	0.204
Ge	72		162761.430	ug/L	
As	75	6.346164	9555.883	ug/L	0.023
Se	74	21.935424	12462.714	mg/L	20.929
ArCl	77		1275.769	ug/L	
Br	79		49680.936	ug/L	

Br	81		78547.540	ug/L	
Y	89		429410.641	ug/L	
Mo	95	0.947010	3546.060	ug/L	0.016
Rh	103		356327.957	ug/L	
Ag	107	-0.123345	471.684	ug/L	0.001
Ag	109	-0.126192	423.681	ug/L	0.001
Cd	111	0.022832	123.335	ug/L	0.002
Cd	114	0.019421	272.007	ug/L	0.006
In	115		448034.954	ug/L	
Sb	121	0.290866	2524.042	ug/L	0.004
Sb	123	0.288851	1921.338	ug/L	0.002
Ba	137	21.393080	83419.183	ug/L	0.246
Ba	138	21.276739	535597.254	ug/L	0.168
Tb	159		534696.248	ug/L	
Ho	165		512641.377	ug/L	
Hg	200	0.014250	45.334	ug/L	0.001
Hg	202	0.016039	60.001	ug/L	0.002
Tl	205	-0.012349	877.718	ug/L	0.003
Pb	208	0.963262	29184.752	ug/L	0.005
Bi	209		373985.995	ug/L	
Se	77	1.153468	1153.407	mg/L	0.634
Se	78	-2.035605	18622.198	mg/L	0.807
Se	82	0.667601	139.430	mg/L	0.261

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		90.885
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 79.300
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 77.005
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 82.389
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.10
Sample Date/Time: Saturday, September 08, 2012 13:18:08
Autosampler Position: 136
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.10.49445

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5280.202	ug/L	
Be	9	0.007673	5.667	ug/L	0.006
B	10	18.265265	1240.430	ug/L	0.241
B	11	19.780426	6643.160	ug/L	0.066
C	12		553959.538	ug/L	
Na	23	100948.150743	707394936.601	ug/L	2753.375
Mg	24	15228.990892	72516789.807	ug/L	374.652
Mg	25	15202.169244	10373147.092	ug/L	306.244
Al	27	4.142475	38518.679	ug/L	0.123
Si	28		20293065.463	ug/L	
P	31	24.384710	19078.593	ug/L	3.032
S	32		108753959.163	ug/L	
Cl	35		14553477.286	ug/L	
K	39	5152.218310	61131220.035	ug/L	146.830
Ca	44	44904.619442	15364456.841	ug/L	750.340
Sc	45		214774.506	ug/L	
Ti	47	0.931039	1094.744	ug/L	0.059
Ti	48	30.319537	289623.353	ug/L	0.187
V	51	0.578680	42104.031	ug/L	0.081
ClO	51		43421.891	ug/L	
Cr	52	0.008515	10698.126	ug/L	0.031
Cr	53	1.333674	13383.979	ug/L	0.220
Fe	54	802.404218	775596.289	ug/L	1.700
Mn	55	528.423552	8836657.421	ug/L	6.282
Fe	56	861.706994	17297574.538	ug/L	25.354
Fe	57	941.283233	325864.614	ug/L	6.786
Co	59	2.840591	35138.462	ug/L	0.045
Ni	60	2.678471	7024.116	ug/L	0.093
Ni	62	1.794426	735.704	ug/L	0.039
Cu	63	1.272398	8086.342	ug/L	0.033
Zn	64	4.139840	12211.281	ug/L	0.091
Cu	65	0.199739	706.368	ug/L	0.010
Zn	66	3.540968	6137.132	ug/L	0.058
Zn	68	4.474313	5439.348	ug/L	0.025
Ge	72		167906.008	ug/L	
As	75	3.104030	4709.851	ug/L	0.016
Se	74	10.959418	11854.867	mg/L	7.104
ArCl	77		1254.432	ug/L	
Br	79		45681.663	ug/L	

Br	81		77326.934	ug/L	
Y	89		442462.592	ug/L	
Mo	95	1.112661	4288.054	ug/L	0.020
Rh	103		363862.945	ug/L	
Ag	107	0.096686	2750.513	ug/L	0.151
Ag	109	0.095059	2623.456	ug/L	0.135
Cd	111	0.012783	102.002	ug/L	0.003
Cd	114	0.009950	226.338	ug/L	0.000
In	115		461964.303	ug/L	
Sb	121	0.210753	1933.225	ug/L	0.009
Sb	123	0.207105	1457.702	ug/L	0.003
Ba	137	37.348848	150107.625	ug/L	0.501
Ba	138	37.138060	963615.198	ug/L	0.509
Tb	159		547391.828	ug/L	
Ho	165		526200.879	ug/L	
Hg	200	0.033859	81.335	ug/L	0.006
Hg	202	0.024967	82.335	ug/L	0.007
Tl	205	-0.007374	1009.734	ug/L	0.007
Pb	208	0.042394	2314.472	ug/L	0.001
Bi	209		376871.251	ug/L	
Se	77	1.858902	1252.086	mg/L	0.256
Se	78	-0.611422	19295.028	mg/L	0.212
Se	82	0.536340	111.950	mg/L	0.066

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		94.335
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

Fe
Fe
Co
Ni
Ni
Cu
Zn
Cu
Zn
Zn
> Ge 81.807
As
Se
ArCl
Br
Br
Y
Mo
Rh
Ag
Ag
Cd
Cd
> In 79.399
Sb
Sb
Ba
Ba
Tb
> Ho 84.568
Hg
Hg
Tl
Pb
Bi
Se
Se
Se

Sample ID: 113689.11
Sample Date/Time: Saturday, September 08, 2012 13:24:42
Autosampler Position: 137
Sample Description: Aqdis
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.11.49446

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5236.177	ug/L	
Be	9	0.010103	6.667	ug/L	0.007
B	10	206.067079	14009.594	ug/L	5.157
B	11	223.436714	75821.374	ug/L	8.393
C	12		1103182.197	ug/L	
Na	23	S	S	ug/L	S
Mg	24	23181.516498	116869469.818	ug/L	334.279
Mg	25	22821.370266	16485814.401	ug/L	399.866
Al	27	0.511460	12192.725	ug/L	0.012
Si	28		38297398.215	ug/L	
P	31	36.351831	25364.535	ug/L	0.652
S	32		106455412.931	ug/L	
Cl	35		13547050.583	ug/L	
K	39	6016.521961	75423987.440	ug/L	90.635
Ca	44	63952.800830	23154336.544	ug/L	782.552
Sc	45		227365.769	ug/L	
Ti	47	1.809430	1990.571	ug/L	0.025
Ti	48	73.154676	742415.146	ug/L	1.349
V	51	0.449589	42859.559	ug/L	0.020
ClO	51		43945.738	ug/L	
Cr	52	0.116821	12520.707	ug/L	0.019
Cr	53	0.750041	13379.639	ug/L	0.131
Fe	54	4882.830988	4647066.898	ug/L	73.265
Mn	55	506.684796	8969277.211	ug/L	12.589
Fe	56	4636.013734	80798409.176	ug/L	169.083
Fe	57	4799.411173	1704751.633	ug/L	96.402
Co	59	0.225173	3629.427	ug/L	0.005
Ni	60	10.010504	27598.103	ug/L	0.143
Ni	62	8.698974	3580.408	ug/L	0.395
Cu	63	1.439430	9623.521	ug/L	0.043
Zn	64	1.154216	4091.890	ug/L	0.051
Cu	65	0.166062	644.696	ug/L	0.002
Zn	66	0.707498	1610.159	ug/L	0.036
Zn	68	2.245984	3056.211	ug/L	0.039
Ge	72		165995.283	ug/L	
As	75	15.037817	23387.060	ug/L	0.196
Se	74	39.467619	14247.119	mg/L	45.220
ArCl	77		1272.768	ug/L	
Br	79		509534.422	ug/L	

Br	81		568014.222	ug/L	
Y	89		441294.293	ug/L	
Mo	95	2.092512	7927.535	ug/L	0.002
Rh	103		361654.713	ug/L	
Ag	107	-0.122874	489.351	ug/L	0.001
Ag	109	-0.125568	441.348	ug/L	0.001
Cd	111	0.005810	84.335	ug/L	0.001
Cd	114	0.010393	228.005	ug/L	0.000
In	115		460253.880	ug/L	
Sb	121	0.104245	1038.070	ug/L	0.002
Sb	123	0.101351	778.151	ug/L	0.003
Ba	137	56.285894	225379.474	ug/L	0.094
Ba	138	55.349462	1430862.464	ug/L	0.241
Tb	159		545246.576	ug/L	
Ho	165		517050.530	ug/L	
Hg	200	0.011367	40.667	ug/L	0.003
Hg	202	0.009068	44.667	ug/L	0.003
Tl	205	-0.011445	904.054	ug/L	0.004
Pb	208	0.008874	1285.715	ug/L	0.006
Bi	209		367190.206	ug/L	
Se	77	1.534782	1206.747	mg/L	0.067
Se	78	-2.622387	18344.983	mg/L	0.263
Se	82	6.228933	1303.719	mg/L	0.167

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		99.866
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 80.876
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 79.105
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 83.097
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample/Batch Report

User Name: ICPMS1
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\AQUIRE_September102012.sam
Report Date/Time: Tuesday, September 11, 2012 12:50:56

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
		Calibration Blank		Sample					
2		Hg0.1ppbCS		Sample					
3		Hg1.0ppbCS		Sample					
4		Hg5.0ppbCS		Sample					
9		TM.5ppbCS		Sample					
10		TM5ppbCS		Sample					
11		TM20ppbCS		Sample					
12		Min100CS		Sample					
13		Min1000CS		Sample					
14		Min5000CS		Sample					
5		Reagent Blank		Sample					
6		SCP_ICV		Sample					
15		ERA DWQC_ICV		Sample					
7		ERA WWQC_ICV		Sample					
8		MIN_ICV		Sample					
16		flush		Sample					
17		flush		Sample					
18		LLCS		Sample					
19		0.5ppb		Sample					
20		ICSA		Sample					
21		ICSAB		Sample					
22		5ppm LRC-flush		Sample					
23		flush		Sample					
24		113653.18	1:10 min LR	Sample					
25		113653.01	1:1 Be rerun	Sample					
26		113653.02	1:1 Be rerun	Sample					
27		113653.03	1:1 Be rerun	Sample					
28		113653.04	1:1 Be rerun	Sample					
29		113653.05	1:1 Be rerun	Sample					
30		113653.06	1:1 Be rerun	Sample					
31		113653.07	1:1 Be rerun	Sample					
32		113653.08	1:1 Be rerun	Sample					
33		113653.09	1:1 Be rerun	Sample					
34		113653.10	1:1 Be rerun	Sample					
35		113653.11	1:1 Be rerun	Sample					
36		113653.12	1:1 Be rerun	Sample					
37		113653.13	1:1 Be rerun	Sample					
38		113653.14	1:1 Be rerun	Sample					
39		113653.15	1:1 Be rerun	Sample					
40		113653.16	1:1 Be rerun	Sample					
41		113653.17	1:1 Be rerun	Sample					
42		113653.18	1:1 Be rerun	Sample					
43		113653.20	1:1 Be rerun	Sample					
44		113689.01	1:1 Be rerun	Sample					
45		113689.02	1:1 Be rerun	Sample					
46		113689.03	1:1 Be rerun	Sample					
47		113689.04	1:1 Be rerun	Sample					
48		113689.05	1:1 Be rerun	Sample					
49		113689.06	1:1 Be rerun	Sample					

50	113689.07	1:1 Be rerun	Sample
51	113689.08	1:1 Be rerun	Sample
52	113689.09	1:1 Be rerun	Sample
53	113689.10	1:1 Be rerun	Sample
54	113689.11	1:1 Be rerun	Sample
55	flush		Sample
56	Soil BLK	1:25	Sample
57	Soil LCS	1:25	Sample
58	Soil QC	1:50	Sample
59	Soil Ag LCS	1:10	Sample
60	flush		Sample
61	flush		Sample
62	113706.01	1:25	Sample
63	113862.01	1:25	Sample
64	113862.03	1:25	Sample
65	113862.04	1:25	Sample
66	113862.06	1:25	Sample
67	113921.01	1:25	Sample
68	113921.02	1:25	Sample
69	113921.03	1:25	Sample
70	113924.01	1:25	Sample
71	113924.01 MS	1:25	Sample
72	113924.01 MS	1:25	Sample
73	flush		Sample
74	flush		Sample
75	flush		Sample
76	BLK		Sample
77	filter BLK		Sample
78	Ag LCS		Sample
79	LCS		Sample
80	filter LCS		Sample
81	LCS	1:10	Sample
82	flush		Sample
83	flush		Sample
84	flush		Sample
85	113766.01		Sample
86	113768.01		Sample
87	113787.01		Sample
88	113787.02		Sample
89	113787.03		Sample
90	113804.01		Sample
91	113858.02		Sample
92	113858.03		Sample
93	113781.01		Sample
94	113781.02		Sample
95	113781.02 MS		Sample
96	113781.02 MSD		Sample
97	flush		Sample
98	flush		Sample
99	flush		Sample
100	113780.01	1:10 dig	Sample
101	113780.01	1:10 dig w/ HCl	Sample
102	113780.01	1:10 from STR	Sample
103	113780.01	1:10 from STR	Sample
104	flush		Sample
105	113876.01	1:100	Sample
106	113876.02	1;100	Sample
107	113876.03	1:100	Sample
108	113876.04	1:100	Sample
109	113884.01		Sample

110	113884.01 MS		Sample
111	113884.01 MSD		Sample
112	flush		Sample
113	flush		Sample
114	flush		Sample
115	113794.01		Sample
116	113888.01		Sample
117	113903.01		Sample
118	113751.01		Sample
119	113752.01		Sample
120	113882.01		Sample
121	113882.02		Sample
122	113882.03		Sample
123	113882.04		Sample
124	113882.05		Sample
125	113882.05 MS		Sample
126	113882.05 MSD		Sample
127	flush		Sample
128	flush		Sample
129	flush		Sample
130	113773.01		Sample
131	113773.02		Sample
132	113773.03		Sample
133	113818.01		Sample
134	113818.02		Sample
135	113823.01		Sample
136	113823.02		Sample
137	113823.03		Sample
138	113823.04		Sample
139	113823.05		Sample
140	113823.05 MS		Sample
141	113823.05 MSD		Sample
142	flush		Sample
143	flush		Sample
144	flush		Sample
145	113778.02		Sample
146	113819.01		Sample
147	113842.01		Sample
148	113756.01		Sample
149	113762.01	1:10	Sample
150	113820.01	1:10	Sample
151	113820.01	1:4	Sample
152	113820.01	1:1	Sample
153	113820.01		Sample
154	flush		Sample
155			Sample
156			Sample
157			Sample
158			Sample
159			Sample
160			Sample

Eastern Analytical, Inc.

Internal Standard Summary
EAI SDG 113653 & 113689

Sample ID	Date/Time of Analysis	Scandium %R	Germanium %R	Indium %R	Holmium %R
QC Std 1	Monday, September 10, 2012 12:43:56	103	102	104	103
QC Std 2	Monday, September 10, 2012 12:50:21	97	99	99	98
QC Std 3	Monday, September 10, 2012 12:56:45	97	99	98	98
QC Std 5	Monday, September 10, 2012 13:03:10	97	98	98	98
QC Std 6	Monday, September 10, 2012 13:09:34	101	100	97	99
LLCS	Monday, September 10, 2012 13:29:53	97	99	99	98
0.5ppb	Monday, September 10, 2012 13:36:18	102	103	102	102
ICSA	Monday, September 10, 2012 13:42:43	92	95	90	91
ICSAB	Monday, September 10, 2012 13:49:09	92	97	90	92
5ppm LRC-flush	Monday, September 10, 2012 13:55:34	98	99	98	99
QC Std 1	Monday, September 10, 2012 14:08:27	101	102	102	102
QC Std 2	Monday, September 10, 2012 14:14:52	95	99	97	98
QC Std 5	Monday, September 10, 2012 14:21:17	98	98	98	98
QC Std 6	Monday, September 10, 2012 14:27:41	97	98	96	98
113653.18	Monday, September 10, 2012 14:34:07	99	101	99	99
113653.01	Monday, September 10, 2012 14:40:35	105	96	93	94
113653.02	Monday, September 10, 2012 14:47:01	101	94	91	91
113653.03	Monday, September 10, 2012 14:53:25	99	92	91	91
113653.04	Monday, September 10, 2012 14:59:50	113	104	101	99
113653.05	Monday, September 10, 2012 15:06:15	102	97	94	94
113653.06	Monday, September 10, 2012 15:12:39	101	96	94	91
113653.07	Monday, September 10, 2012 15:19:04	102	95	92	93
113653.08	Monday, September 10, 2012 15:25:29	103	94	93	93
113653.09	Monday, September 10, 2012 15:31:54	106	99	98	96
113653.1	Monday, September 10, 2012 15:38:20	109	101	100	98
QC Std 1	Monday, September 10, 2012 15:44:47	99	99	99	99
QC Std 2	Monday, September 10, 2012 15:51:12	99	100	99	97
QC Std 5	Monday, September 10, 2012 15:57:36	99	101	100	99
QC Std 6	Monday, September 10, 2012 16:04:01	101	98	97	97
113653.11	Monday, September 10, 2012 16:19:21	106	101	100	99
113653.12	Monday, September 10, 2012 16:25:47	105	99	96	95
113653.13	Monday, September 10, 2012 16:32:14	106	99	100	99
113653.14	Monday, September 10, 2012 16:38:40	103	95	93	92
113653.15	Monday, September 10, 2012 16:45:06	106	98	97	95
113653.16	Monday, September 10, 2012 16:51:31	105	97	97	96
113653.17	Monday, September 10, 2012 16:57:56	104	97	95	93
113653.18	Monday, September 10, 2012 17:04:22	103	98	96	95
113653.2	Monday, September 10, 2012 17:10:47	97	99	99	97
113689.01	Monday, September 10, 2012 17:17:12	100	98	97	96
QC Std 1	Monday, September 10, 2012 17:23:38	94	98	98	96
QC Std 2	Monday, September 10, 2012 17:30:04	92	94	96	94
QC Std 5	Monday, September 10, 2012 17:36:28	93	96	97	94
QC Std 6	Monday, September 10, 2012 17:42:52	91	95	93	93
113689.02	Monday, September 10, 2012 17:49:17	98	95	95	94
113689.03	Monday, September 10, 2012 17:55:43	102	93	90	92
113689.04	Monday, September 10, 2012 18:02:09	95	95	96	94
113689.05	Monday, September 10, 2012 18:08:36	97	95	95	94
113689.06	Monday, September 10, 2012 18:15:03	96	92	91	89
113689.07	Monday, September 10, 2012 18:21:29	101	99	97	98
113689.08	Monday, September 10, 2012 18:27:55	102	97	97	96
113689.09	Monday, September 10, 2012 18:34:20	95	91	90	90
113689.1	Monday, September 10, 2012 18:40:46	97	93	93	91
113689.11	Monday, September 10, 2012 18:47:11	96	88	88	88
QC Std 1	Monday, September 10, 2012 18:53:38	95	98	100	98
QC Std 2	Monday, September 10, 2012 19:00:03	89	93	95	92
QC Std 5	Monday, September 10, 2012 19:06:27	88	91	94	91
QC Std 6	Monday, September 10, 2012 19:12:51	90	92	91	91

Eastern Analytical, Inc.

Blank Summary
EAI SDG 113653 & 113689
Total Metals

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 12:43:56
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.000555	ug/L		<1
Ge	72		ug/L	102.3	
Ho	165		ug/L	102.59	
In	115		ug/L	103.528	
Sc	45		ug/L	103.256	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 14:08:27
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	0.007737	ug/L		<1
Ge	72		ug/L	101.9	
Ho	165		ug/L	102.363	
In	115		ug/L	102.116	
Sc	45		ug/L	101.273	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 15:44:47
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.002186	ug/L		<1
Ge	72		ug/L	99.089	
Ho	165		ug/L	99.45	
In	115		ug/L	99.119	
Sc	45		ug/L	99.041	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 17:23:38
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.00761	ug/L		<1
Ge	72		ug/L	97.508	
Ho	165		ug/L	95.754	
In	115		ug/L	97.539	
Sc	45		ug/L	93.818	

Sample ID: QC Std 1
Sample Date/Time: Monday, September 10, 2012 18:53:38
Sample Description: Blank

Concentration Results				Int Std	
Analyte	Mass	Conc.	Units	% R	RL
Be	9	-0.001741	ug/L		<1
Ge	72		ug/L	97.932	
Ho	165		ug/L	97.933	
In	115		ug/L	99.917	
Sc	45		ug/L	95.367	

Eastern Analytical, Inc.

Calibration Verification (CV) Summary
EAI SDG 113653& 113689
Total Metals

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 12:50:21
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	106.564547	ug/L	105.509		100
Ge	72		ug/L		99.006	
Ho	165		ug/L		97.814	
In	115		ug/L		98.506	
Sc	45		ug/L		97.357	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 14:14:52
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	117.460586	ug/L	116.298		100
Ge	72		ug/L		99.487	
Ho	165		ug/L		98.433	
In	115		ug/L		97.103	
Sc	45		ug/L		94.753	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 15:51:12
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	107.024963	ug/L	105.965		100
Ge	72		ug/L		99.649	
Ho	165		ug/L		96.564	
In	115		ug/L		99.047	
Sc	45		ug/L		98.813	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 17:30:04
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	101.057226	ug/L	100.057		100
Ge	72		ug/L		94.222	
Ho	165		ug/L		93.967	
In	115		ug/L		95.873	
Sc	45		ug/L		91.7	

Sample ID: QC Std 2
Sample Date/Time: Monday, September 10, 2012 19:00:03
Sample Description: CV-Trace Metals

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Be	9	95.308552	ug/L	94.365		100
Ge	72		ug/L		92.83	
Ho	165		ug/L		91.892	
In	115		ug/L		94.561	
Sc	45		ug/L		89.064	

Eastern Analytical, Inc.

ICSA/ICSB
EAI SDG 113593
Total & Dissolved Metals

Sample ID: ICSA
Sample Date/Time: Monday, September 10, 2012 13:42:43
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	0.038386	ug/L			< 1
Ag	109	0.033085	ug/L			< 1
Al	27	50757.22	ug/L	101.51		50000
As	75	-0.0603	ug/L			< 1
Ba	137	0.096163	ug/L			< 1
Be	9	0.011185	ug/L			< 1
Ca	44	55023.84	ug/L	110.05		50000
Cd	111	0.09428	ug/L			< 1
Cd	114	0.098944	ug/L			< 1
Co	59	0.106306	ug/L			< 1
Cr	52	0.298007	ug/L			< 1
Cu	63	0.981433	ug/L			< 1
Cu	65	0.638749	ug/L			< 1
Fe	54	49397.85	ug/L	98.80		50000
Fe	56	50922.43	ug/L	101.84		50000
Fe	57	57443.22	ug/L	114.89		50000
Ge	72		ug/L		95.082	
Hg	200	0.04975	ug/L			< 0.1
Hg	202	0.054006	ug/L			< 0.1
Ho	165		ug/L		91.093	
In	115		ug/L		89.714	
K	39	50404.05	ug/L	100.81		50000
Mg	24	48480.03	ug/L	96.96		50000
Mg	25	49979.56	ug/L	99.96		50000
Mn	55	-0.60166	ug/L			< 5
Na	23	49437.87	ug/L	98.88		50000
Ni	60	1.235071	ug/L			1.2
Ni	62	0.554891	ug/L			< 1
P	31	52759.27	ug/L	105.52		50000
Pb	208	0.069794	ug/L			< 1
Sb	121	0.073458	ug/L			< 1
Sb	123	0.070511	ug/L			< 1
Sc	45		ug/L		91.856	
Se	82	-0.15257	mg/L			< 1
Tl	205	-0.00722	ug/L			< 1
V	51	1.735818	ug/L			< 5
Zn	64	4.370564	ug/L			< 5
Zn	66	1.221267	ug/L			< 5
Zn	68	0.775064	ug/L			< 5

Sample ID: ICSAB
Sample Date/Time: Monday, September 10, 2012 13:49:09
Sample Description:

Concentration Results				QC Std	Int Std	True
Analyte	Mass	Conc.	Units	% R	% R	Value
Ag	107	8.976445	ug/L	89.76		10
Ag	109	8.982681	ug/L	89.83		10
Al	27	50138.36	ug/L	100.28		50000
As	75	8.905054	ug/L	89.05		10
Ba	137	9.667689	ug/L	96.68		10
Be	9	10.55717	ug/L	105.57		10
Ca	44	55291.34	ug/L	110.58		50000
Cd	111	9.550153	ug/L	95.50		10
Cd	114	9.450816	ug/L	94.51		10
Co	59	9.189783	ug/L	91.90		10
Cr	52	9.465061	ug/L	94.65		10
Cu	63	9.313969	ug/L	93.14		10
Cu	65	9.205929	ug/L	92.06		10
Fe	54	49054.91	ug/L	98.11		50000
Fe	56	51638.36	ug/L	103.28		50000
Fe	57	57932.84	ug/L	115.87		50000
Ge	72		ug/L		97.149	
Hg	200	1.051031	ug/L	105.10		1
Hg	202	1.057595	ug/L	105.76		1
Ho	165		ug/L		91.645	
In	115		ug/L		89.939	
K	39	49442.08	ug/L	98.88		50000
Mg	24	49618.52	ug/L	99.24		50000
Mg	25	48705.09	ug/L	97.41		50000
Mn	55	8.718271	ug/L	87.18		10
Na	23	49203.4	ug/L	98.41		50000
Ni	60	10.14456	ug/L	89.09		10
Ni	62	9.209267	ug/L	92.09		10
P	31	51989.61	ug/L	103.98		50000
Pb	208	9.452449	ug/L	94.52		10
Sb	121	9.847229	ug/L	98.47		10
Sb	123	9.985406	ug/L	99.85		10
Sc	45		ug/L		91.755	
Se	82	8.311811	mg/L	83.12		10
Tl	205	9.265368	ug/L	92.65		10
V	51	11.12253	ug/L	93.87		10
Zn	64	12.9249	ug/L	85.54		10
Zn	66	9.696399	ug/L	84.75		10
Zn	68	9.212625	ug/L	92.13		10

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, September 10, 2012 11:13:08
Sample Description:
Method File: C:\Elandata\Method\EPA200 DAILY.mth
Dataset File: C:\Elandata\Dataset\daily performance\Sample.035
Tuning File: C:\Elandata\Tuning\EPA.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

1.74 x 10^-5

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	28197.5	28197.481	247.357	0.9
	Rh	102.9	305439.4	305439.438	1035.401	0.3
	In	114.9	396513.5	396513.469	2951.477	0.7
	Pb	208.0	214372.9	214372.909	479.627	0.2
⌈>	Ba	137.9	358977.8	358977.778	753.299	0.2
⌊	Ba++	69.0	3391.6	0.009	0.000	1.2
⌈>	Ce	139.9	425037.9	425037.883	3027.370	0.7
⌊	CeO	155.9	11928.8	0.028	0.000	1.2
	Bkgd	220.0	5.0	5.001	3.317	66.3

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1947.00	Analog Stage Voltage
1273.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-5.50	AC Rod Offset

71361.7

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	15	6.0	3214.1
Co	59	15	7.8	143083.2
In	115	15	8.3	403643.4

71360.7

Instrument Tuning Report

File Name: EPA.tun
File Path: C:\elandata\Tuning\EPA.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.975	600	2087	0.568	
Mg	23.985	23.979	5743	2024	0.560	
Rh	102.905	102.878	25058	1900	0.634	
Ce	139.905	139.878	34044	1961	0.644	
Pb	207.977	207.975	50454	2247	0.627	

Sample ID: 113689.01
Sample Date/Time: Monday, September 10, 2012 17:17:12
Autosampler Position: 44
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.01.49503

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6350.220	ug/L	
Be	9	0.006865	6.000	ug/L	0.010
B	10	29.510932	2284.643	ug/L	0.089
B	11	29.709898	11092.876	ug/L	0.205
C	12		577415.232	ug/L	
Na	23	10867.576787	74101256.046	ug/L	31.330
Mg	24	5785.756120	26888241.742	ug/L	49.446
Mg	25	5874.332622	3833030.331	ug/L	121.124
Al	27	61.031035	444838.277	ug/L	0.875
Si	28		12908958.148	ug/L	
P	31	25.546198	22102.541	ug/L	5.094
S	32		104846309.862	ug/L	
Cl	35		10849002.973	ug/L	
K	39	1992.173598	23863495.399	ug/L	2.075
Ca	44	17642.051710	6017892.122	ug/L	242.929
Sc	45		218330.989	ug/L	
Ti	47	4.086294	4150.989	ug/L	0.024
Ti	48	17.567390	178630.290	ug/L	2.142
V	51	0.424604	40249.643	ug/L	0.073
ClO	51		41569.238	ug/L	
Cr	52	0.008326	11872.798	ug/L	0.016
Cr	53	0.678599	12628.225	ug/L	0.227
Fe	54	273.962022	310415.197	ug/L	12.309
Mn	55	253.879214	4426870.047	ug/L	4.628
Fe	56	277.992325	8279104.091	ug/L	2.715
Fe	57	336.068827	122003.499	ug/L	16.729
Co	59	0.121482	2149.276	ug/L	0.001
Ni	60	0.585506	1707.844	ug/L	0.019
Ni	62	0.237630	165.003	ug/L	0.041
Cu	63	0.553515	3801.166	ug/L	0.005
Zn	64	3.536779	11529.523	ug/L	0.043
Cu	65	0.464239	1519.809	ug/L	0.002
Zn	66	3.267037	6253.213	ug/L	0.013
Zn	68	3.424445	4683.587	ug/L	0.040
Ge	72		187871.150	ug/L	
As	75	8.328569	15316.414	ug/L	0.002
Se	74	2.477655	15471.692	mg/L	30.703
ArCl	77		907.054	ug/L	
Br	79		17590.891	ug/L	

Br	81		45005.578	ug/L	
Y	89		485934.948	ug/L	
Mo	95	1.051957	4906.373	ug/L	0.008
Rh	103		434306.896	ug/L	
Ag	107	-0.057041	375.011	ug/L	0.002
Ag	109	-0.060527	335.343	ug/L	0.001
Cd	111	2.660234	8380.278	ug/L	0.035
Cd	114	2.695493	19437.289	ug/L	0.052
In	115		553198.618	ug/L	
Sb	121	0.054298	655.364	ug/L	0.000
Sb	123	0.056480	514.590	ug/L	0.002
Ba	137	8.966670	42377.297	ug/L	0.009
Ba	138	9.115896	275201.667	ug/L	0.029
Tb	159		595127.886	ug/L	
Ho	165		567019.226	ug/L	
Hg	200	0.005922	35.000	ug/L	0.003
Hg	202	0.004499	41.001	ug/L	0.003
Tl	205	0.003409	1888.549	ug/L	0.007
Pb	208	0.094883	6077.196	ug/L	0.004
Bi	209		445768.930	ug/L	
Se	77	-0.255417	930.714	mg/L	0.258
Se	78	-0.913555	18282.354	mg/L	0.469
Se	82	0.209757	54.302	mg/L	0.065

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		100.382
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 98.313
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 96.826
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 95.693
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.02
Sample Date/Time: Monday, September 10, 2012 17:49:17
Autosampler Position: 45
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.02.49508

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6761.181	ug/L	
Be	9	0.001392	4.333	ug/L	0.005
B	10	16.167833	1257.766	ug/L	0.400
B	11	15.839383	5931.661	ug/L	0.375
C	12		554971.958	ug/L	
Na	23	12840.183472	85865953.808	ug/L	242.380
Mg	24	7199.507057	32821044.648	ug/L	37.753
Mg	25	7134.785646	4565944.971	ug/L	74.106
Al	27	6.381158	53837.709	ug/L	0.164
Si	28		12321549.670	ug/L	
P	31	8.386584	14756.820	ug/L	3.421
S	32		102017047.714	ug/L	
Cl	35		11063062.771	ug/L	
K	39	3101.805174	35924690.257	ug/L	44.463
Ca	44	15560.333596	5209859.704	ug/L	277.358
Sc	45		214162.627	ug/L	
Ti	47	0.684033	866.383	ug/L	0.026
Ti	48	12.477717	123933.928	ug/L	0.284
V	51	0.363717	38689.877	ug/L	0.005
ClO	51		39789.954	ug/L	
Cr	52	-0.092399	10556.695	ug/L	0.011
Cr	53	0.910920	12695.319	ug/L	0.003
Fe	54	1192.908011	1091689.920	ug/L	28.761
Mn	55	304.434096	5202856.702	ug/L	2.765
Fe	56	1292.122152	23017685.008	ug/L	8.671
Fe	57	1303.614264	430791.747	ug/L	20.410
Co	59	0.123052	2127.604	ug/L	0.003
Ni	60	0.422560	1244.764	ug/L	0.006
Ni	62	0.059271	90.335	ug/L	0.010
Cu	63	0.232604	1775.191	ug/L	0.013
Zn	64	2.069472	7179.986	ug/L	0.036
Cu	65	0.133054	516.353	ug/L	0.009
Zn	66	1.732263	3613.088	ug/L	0.039
Zn	68	2.208719	3191.259	ug/L	0.013
Ge	72		182296.862	ug/L	
As	75	3.339179	5764.190	ug/L	0.126
Se	74	13.062774	16719.323	mg/L	21.203
ArCl	77		944.392	ug/L	
Br	79		18800.703	ug/L	

Br	81		44830.079	ug/L	
Y	89		471687.689	ug/L	
Mo	95	0.535028	2441.019	ug/L	0.012
Rh	103		422452.111	ug/L	
Ag	107	0.099471	2296.661	ug/L	0.060
Ag	109	0.094134	2152.625	ug/L	0.063
Cd	111	0.059706	368.345	ug/L	0.015
Cd	114	0.060069	815.378	ug/L	0.017
In	115		543597.961	ug/L	
Sb	121	0.088771	996.065	ug/L	0.001
Sb	123	0.095414	805.535	ug/L	0.001
Ba	137	17.630083	81807.923	ug/L	0.054
Ba	138	17.847764	529107.182	ug/L	0.050
Tb	159		594307.415	ug/L	
Ho	165		559834.993	ug/L	
Hg	200	0.001652	26.000	ug/L	0.002
Hg	202	0.004702	41.001	ug/L	0.002
Tl	205	0.004307	1886.882	ug/L	0.007
Pb	208	0.009431	3059.232	ug/L	0.004
Bi	209		433764.565	ug/L	
Se	77	-0.574686	884.043	mg/L	0.323
Se	78	-0.535151	18461.505	mg/L	0.699
Se	82	0.218022	56.000	mg/L	0.021

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌐	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		98.466
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	95.396
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	95.146
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	94.480
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.03
Sample Date/Time: Monday, September 10, 2012 17:55:43
Autosampler Position: 46
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.03.49509

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6530.345	ug/L	
Be	9	0.001961	4.667	ug/L	0.003
B	10	122.339962	9411.634	ug/L	4.352
B	11	123.639181	46006.918	ug/L	0.713
C	12		760321.882	ug/L	
Na	23	74310.837099	514888533.519	ug/L	1254.392
Mg	24	15822.455841	74756717.761	ug/L	69.445
Mg	25	16054.711624	10648172.273	ug/L	449.216
Al	27	11.065881	89767.006	ug/L	0.559
Si	28		21690601.958	ug/L	
P	31	129.190155	65662.844	ug/L	1.396
S	32		100265219.670	ug/L	
Cl	35		12385962.435	ug/L	
K	39	6627.217319	78441440.928	ug/L	93.960
Ca	44	25875.263156	8956990.151	ug/L	85.168
Sc	45		221959.633	ug/L	
Ti	47	1.704910	1894.550	ug/L	0.049
Ti	48	20.527730	212776.224	ug/L	1.383
V	51	0.413248	40772.982	ug/L	0.040
ClO	51		41617.814	ug/L	
Cr	52	0.085449	12937.462	ug/L	0.002
Cr	53	0.685260	12849.871	ug/L	0.079
Fe	54	5812.936032	5233171.499	ug/L	22.077
Mn	55	768.159571	13577798.938	ug/L	19.970
Fe	56	6040.586088	96152522.094	ug/L	122.011
Fe	57	5803.733201	1946340.778	ug/L	139.564
Co	59	1.299249	17437.215	ug/L	0.003
Ni	60	5.108421	14106.411	ug/L	0.061
Ni	62	4.515801	1941.893	ug/L	0.011
Cu	63	1.105177	7344.372	ug/L	0.011
Zn	64	1.155192	4773.441	ug/L	0.006
Cu	65	0.231380	835.047	ug/L	0.023
Zn	66	0.938366	2393.006	ug/L	0.004
Zn	68	2.430388	3572.404	ug/L	0.021
Ge	72		176978.416	ug/L	
As	75	9.802623	17036.549	ug/L	0.025
Se	74	-22.142228	10786.067	mg/L	2.645
ArCl	77		1084.742	ug/L	
Br	79		227665.432	ug/L	

Br	81		264962.674	ug/L	
Y	89		465550.618	ug/L	
Mo	95	6.770851	29529.176	ug/L	0.120
Rh	103		402747.569	ug/L	
Ag	107	-0.032544	636.029	ug/L	0.008
Ag	109	-0.035539	592.025	ug/L	0.009
Cd	111	0.098732	462.683	ug/L	0.013
Cd	114	0.099543	1036.070	ug/L	0.011
In	115		516651.695	ug/L	
Sb	121	0.077096	833.380	ug/L	0.000
Sb	123	0.076488	626.762	ug/L	0.004
Ba	137	55.558160	244826.995	ug/L	1.196
Ba	138	55.012670	1548843.900	ug/L	1.603
Tb	159		574602.854	ug/L	
Ho	165		545699.101	ug/L	
Hg	200	0.004712	31.334	ug/L	0.000
Hg	202	0.007178	46.334	ug/L	0.002
Tl	205	0.000364	1740.851	ug/L	0.008
Pb	208	0.037705	3928.040	ug/L	0.006
Bi	209		403751.774	ug/L	
Se	77	0.811870	1086.732	mg/L	0.761
Se	78	-1.242440	18126.646	mg/L	0.564
Se	82	2.443074	513.141	mg/L	0.246

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.051
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	92.612
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	90.429
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	92.095
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.04
Sample Date/Time: Monday, September 10, 2012 18:02:09
Autosampler Position: 47
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.04.49510

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6256.819	ug/L	
Be	9	0.000658	4.000	ug/L	0.003
B	10	6.455690	523.354	ug/L	0.478
B	11	6.499521	2507.705	ug/L	0.774
C	12		579015.354	ug/L	
Na	23	4785.794687	30926091.809	ug/L	164.659
Mg	24	2091.489819	9204758.795	ug/L	107.266
Mg	25	1851.979791	1144603.823	ug/L	49.126
Al	27	0.254536	10580.544	ug/L	0.048
Si	28		13952704.907	ug/L	
P	31	-5.438591	8878.557	ug/L	1.552
S	32		99187785.565	ug/L	
Cl	35		10447672.441	ug/L	
K	39	1100.951379	12895895.871	ug/L	43.365
Ca	44	7478.558712	2432878.861	ug/L	321.427
Sc	45		206894.203	ug/L	
Ti	47	0.611197	770.374	ug/L	0.017
Ti	48	5.692576	53448.213	ug/L	0.160
V	51	0.500288	39105.344	ug/L	0.017
ClO	51		40152.552	ug/L	
Cr	52	0.038098	11560.410	ug/L	0.021
Cr	53	1.504997	13014.773	ug/L	0.255
Fe	54	-0.434798	66905.108	ug/L	6.697
Mn	55	-0.821504	3812.504	ug/L	0.010
Fe	56	-2.553595	3861027.281	ug/L	12.761
Fe	57	11.725506	14793.514	ug/L	3.257
Co	59	0.069028	1403.456	ug/L	0.000
Ni	60	2.194120	5715.520	ug/L	0.093
Ni	62	1.925010	808.711	ug/L	0.028
Cu	63	0.198642	1513.808	ug/L	0.013
Zn	64	2.252090	7429.446	ug/L	0.076
Cu	65	0.163080	583.691	ug/L	0.009
Zn	66	2.157303	4161.327	ug/L	0.137
Zn	68	2.207813	3080.219	ug/L	0.098
Ge	72		182233.896	ug/L	
As	75	0.126802	-88.509	ug/L	0.001
Se	74	8.090468	15970.424	mg/L	9.718
ArCl	77		881.718	ug/L	
Br	79		13163.661	ug/L	

Br	81		38077.631	ug/L	
Y	89		475147.515	ug/L	
Mo	95	0.291247	1346.780	ug/L	0.019
Rh	103		427553.888	ug/L	
Ag	107	-0.050806	447.349	ug/L	0.002
Ag	109	-0.055352	392.346	ug/L	0.002
Cd	111	0.095875	480.351	ug/L	0.006
Cd	114	0.104358	1128.415	ug/L	0.001
In	115		546393.105	ug/L	
Sb	121	0.018280	277.674	ug/L	0.002
Sb	123	0.019764	223.951	ug/L	0.002
Ba	137	1.596185	7507.841	ug/L	0.022
Ba	138	1.612796	48388.580	ug/L	0.019
Tb	159		584050.992	ug/L	
Ho	165		556432.612	ug/L	
Hg	200	-0.000603	21.334	ug/L	0.001
Hg	202	-0.000186	28.000	ug/L	0.001
Tl	205	0.013046	2092.262	ug/L	0.004
Pb	208	-0.024542	1878.428	ug/L	0.004
Bi	209		424889.566	ug/L	
Se	77	-0.437857	904.045	mg/L	0.181
Se	78	-1.383527	18059.850	mg/L	0.406
Se	82	0.247836	62.125	mg/L	0.122

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		95.124
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	95.363
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	95.635
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	93.906
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.05
Sample Date/Time: Monday, September 10, 2012 18:08:36
Autosampler Position: 48
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.05.49511

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6462.296	ug/L	
Be	9	0.000499	4.000	ug/L	0.004
B	10	4.914354	421.347	ug/L	0.321
B	11	4.941676	2007.908	ug/L	0.058
C	12		587527.397	ug/L	
Na	23	4593.230488	30204840.264	ug/L	106.826
Mg	24	2223.006166	9954875.733	ug/L	23.347
Mg	25	1959.837844	1231817.672	ug/L	51.882
Al	27	0.660914	13554.786	ug/L	0.038
Si	28		13871863.424	ug/L	
P	31	-2.493176	10186.772	ug/L	3.876
S	32		95309022.789	ug/L	
Cl	35		10145284.544	ug/L	
K	39	1069.522331	12773942.175	ug/L	19.410
Ca	44	8528.639896	2818709.047	ug/L	9.254
Sc	45		210373.370	ug/L	
Ti	47	0.573251	748.705	ug/L	0.029
Ti	48	7.172179	69079.124	ug/L	0.158
V	51	0.454133	39158.890	ug/L	0.101
ClO	51		40387.283	ug/L	
Cr	52	-0.006611	11283.573	ug/L	0.011
Cr	53	1.050286	12645.918	ug/L	0.407
Fe	54	10.692562	77486.987	ug/L	0.865
Mn	55	4.531765	93439.798	ug/L	0.020
Fe	56	1.895899	3992854.822	ug/L	0.974
Fe	57	27.232330	19957.214	ug/L	0.252
Co	59	0.030184	950.059	ug/L	0.001
Ni	60	0.533949	1512.475	ug/L	0.038
Ni	62	0.362682	208.004	ug/L	0.003
Cu	63	0.156589	1289.438	ug/L	0.007
Zn	64	2.768794	8984.838	ug/L	0.064
Cu	65	0.139919	527.021	ug/L	0.002
Zn	66	2.668370	5059.125	ug/L	0.008
Zn	68	2.705496	3698.123	ug/L	0.036
Ge	72		181013.775	ug/L	
As	75	0.181763	11.549	ug/L	0.001
Se	74	2.029098	14897.391	mg/L	14.155
ArCl	77		946.059	ug/L	
Br	79		12340.855	ug/L	

Br	81		37286.016	ug/L	
Y	89		472642.619	ug/L	
Mo	95	0.124358	595.026	ug/L	0.011
Rh	103		421802.245	ug/L	
Ag	107	-0.054497	397.346	ug/L	0.001
Ag	109	-0.052857	417.347	ug/L	0.003
Cd	111	0.123474	557.689	ug/L	0.013
Cd	114	0.125556	1261.767	ug/L	0.006
In	115		540208.702	ug/L	
Sb	121	0.016829	259.673	ug/L	0.001
Sb	123	0.017450	203.744	ug/L	0.003
Ba	137	1.277521	5955.343	ug/L	0.004
Ba	138	1.293326	38440.348	ug/L	0.015
Tb	159		591098.446	ug/L	
Ho	165		554050.974	ug/L	
Hg	200	0.000276	23.000	ug/L	0.003
Hg	202	-0.002068	23.000	ug/L	0.001
Tl	205	0.014246	2112.601	ug/L	0.008
Pb	208	-0.008517	2415.816	ug/L	0.005
Bi	209		446917.772	ug/L	
Se	77	-0.456099	901.378	mg/L	0.748
Se	78	-1.284391	18106.785	mg/L	1.494
Se	82	0.308070	74.501	mg/L	0.199

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.724
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	94.724
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	94.553
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	93.504
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.06
Sample Date/Time: Monday, September 10, 2012 18:15:03
Autosampler Position: 49
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.06.49512

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6287.508	ug/L	
Be	9	0.034170	13.333	ug/L	0.007
B	10	8.870188	699.034	ug/L	0.105
B	11	8.786869	3315.971	ug/L	0.028
C	12		587828.643	ug/L	
Na	23	7413.818491	48143757.621	ug/L	14.712
Mg	24	2154.559929	9536041.243	ug/L	43.203
Mg	25	1896.591144	1178346.720	ug/L	30.965
Al	27	637.373272	4339179.485	ug/L	14.607
Si	28		15458318.077	ug/L	
P	31	25.863749	21156.735	ug/L	2.272
S	32		88768598.724	ug/L	
Cl	35		9696567.694	ug/L	
K	39	1260.071303	14707448.566	ug/L	10.413
Ca	44	13358.786105	4346023.598	ug/L	255.305
Sc	45		207884.770	ug/L	
Ti	47	33.730093	31061.288	ug/L	0.119
Ti	48	43.727406	426841.414	ug/L	2.755
V	51	2.020718	58662.966	ug/L	0.146
ClO	51		59774.133	ug/L	
Cr	52	1.641613	28479.607	ug/L	0.041
Cr	53	2.452166	14290.701	ug/L	0.244
Fe	54	1303.735556	1151713.888	ug/L	14.504
Mn	55	141.430688	2355370.376	ug/L	1.622
Fe	56	1372.415113	23487406.971	ug/L	13.882
Fe	57	1415.835563	453136.700	ug/L	26.343
Co	59	0.630521	8220.464	ug/L	0.001
Ni	60	1.781835	4690.256	ug/L	0.012
Ni	62	1.651854	706.368	ug/L	0.034
Cu	63	1.235859	7650.962	ug/L	0.010
Zn	64	4.629321	13963.152	ug/L	0.103
Cu	65	1.200529	3550.062	ug/L	0.021
Zn	66	4.374343	7718.686	ug/L	0.076
Zn	68	4.552956	5722.858	ug/L	0.015
Ge	72		176509.093	ug/L	
As	75	2.854866	4729.207	ug/L	0.001
Se	74	-11.190201	12453.013	mg/L	27.396
ArCl	77		974.395	ug/L	
Br	79		32188.057	ug/L	

Br	81		57885.383	ug/L	
Y	89		469063.610	ug/L	
Mo	95	0.518017	2290.311	ug/L	0.003
Rh	103		404610.697	ug/L	
Ag	107	-0.053542	392.012	ug/L	0.003
Ag	109	-0.055880	366.011	ug/L	0.003
Cd	111	0.120312	525.687	ug/L	0.010
Cd	114	0.120164	1174.088	ug/L	0.000
In	115		517892.700	ug/L	
Sb	121	0.033355	409.680	ug/L	0.003
Sb	123	0.029764	285.747	ug/L	0.001
Ba	137	5.178547	22940.136	ug/L	0.022
Ba	138	5.230981	147989.417	ug/L	0.010
Tb	159		560564.930	ug/L	
Ho	165		527722.767	ug/L	
Hg	200	0.002620	26.334	ug/L	0.000
Hg	202	0.000134	27.334	ug/L	0.001
Tl	205	0.022289	2200.957	ug/L	0.011
Pb	208	0.430018	16526.401	ug/L	0.008
Bi	209		423642.568	ug/L	
Se	77	0.383127	1024.058	mg/L	0.155
Se	78	-0.749970	18359.801	mg/L	0.050
Se	82	0.399538	93.293	mg/L	0.118

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		95.579
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 92.367
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 90.647
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 89.061
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.07
Sample Date/Time: Monday, September 10, 2012 18:21:29
Autosampler Position: 50
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.07.49513

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6958.662	ug/L	
Be	9	0.011046	7.333	ug/L	0.006
B	10	5.019062	449.349	ug/L	0.097
B	11	4.936418	2101.931	ug/L	0.197
C	12		547336.244	ug/L	
Na	23	8600.690390	59222181.348	ug/L	61.978
Mg	24	2302.861440	10806094.436	ug/L	59.328
Mg	25	2053.575948	1352943.409	ug/L	12.529
Al	27	2.122034	24699.672	ug/L	0.565
Si	28		10313233.251	ug/L	
P	31	3.918134	13341.118	ug/L	1.295
S	32		100815908.212	ug/L	
Cl	35		10514329.197	ug/L	
K	39	1445.224834	17746771.387	ug/L	3.704
Ca	44	11961.936633	4130095.712	ug/L	39.610
Sc	45		220471.098	ug/L	
Ti	47	0.406258	622.361	ug/L	0.008
Ti	48	7.952791	80415.915	ug/L	0.977
V	51	0.540653	42219.911	ug/L	0.006
ClO	51		43386.409	ug/L	
Cr	52	-0.097084	10813.967	ug/L	0.011
Cr	53	0.846426	12984.403	ug/L	0.216
Fe	54	21.224708	90477.530	ug/L	1.272
Mn	55	14.310767	269346.255	ug/L	0.169
Fe	56	4.659933	4225825.282	ug/L	4.770
Fe	57	46.577098	27313.698	ug/L	1.661
Co	59	0.038107	1097.411	ug/L	0.003
Ni	60	0.253674	822.379	ug/L	0.012
Ni	62	-0.018671	61.001	ug/L	0.028
Cu	63	0.208503	1676.171	ug/L	0.001
Zn	64	1.329529	5246.543	ug/L	0.006
Cu	65	0.150098	583.025	ug/L	0.003
Zn	66	1.215403	2844.807	ug/L	0.040
Zn	68	1.328386	2239.632	ug/L	0.002
Ge	72		188771.784	ug/L	
As	75	3.312903	5922.044	ug/L	0.101
Se	74	6.335301	16240.836	mg/L	2.234
ArCl	77		1058.406	ug/L	
Br	79		20378.730	ug/L	

Br	81		46541.966	ug/L	
Y	89		486873.528	ug/L	
Mo	95	1.309099	6125.124	ug/L	0.005
Rh	103		432714.263	ug/L	
Ag	107	-0.051785	439.682	ug/L	0.004
Ag	109	-0.055511	394.346	ug/L	0.002
Cd	111	0.125920	576.691	ug/L	0.035
Cd	114	0.128203	1306.441	ug/L	0.028
In	115		551531.225	ug/L	
Sb	121	0.035501	458.683	ug/L	0.003
Sb	123	0.038737	374.370	ug/L	0.002
Ba	137	3.134320	14814.543	ug/L	0.004
Ba	138	3.162698	95432.041	ug/L	0.023
Tb	159		605871.749	ug/L	
Ho	165		579086.369	ug/L	
Hg	200	0.048087	123.335	ug/L	0.003
Hg	202	0.036605	129.002	ug/L	0.002
Tl	205	0.006968	2018.912	ug/L	0.009
Pb	208	0.017247	3441.292	ug/L	0.005
Bi	209		457368.666	ug/L	
Se	77	0.127711	986.721	mg/L	0.722
Se	78	-1.905991	17812.495	mg/L	0.627
Se	82	0.340064	81.074	mg/L	0.055

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌜	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
\>	Sc		101.366
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

	Fe
	Fe
	Co
	Ni
	Ni
	Cu
	Zn
	Cu
	Zn
	Zn
>	Ge 98.784
	As
	Se
	ArCl
	Br
	Br
	Y
	Mo
	Rh
	Ag
	Ag
	Cd
	Cd
>	In 96.534
	Sb
	Sb
	Ba
	Ba
	Tb
>	Ho 97.729
	Hg
	Hg
	Tl
	Pb
	Bi
	Se
	Se
	Se

Sample ID: 113689.08
Sample Date/Time: Monday, September 10, 2012 18:27:55
Autosampler Position: 51
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.08.49514

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6658.440	ug/L	
Be	9	0.026487	12.000	ug/L	0.001
B	10	77.487405	6010.382	ug/L	1.706
B	11	78.283152	29342.581	ug/L	0.593
C	12		603102.413	ug/L	
Na	23	40852.106389	284130522.851	ug/L	32.106
Mg	24	13688.179702	64908758.652	ug/L	97.763
Mg	25	13878.368828	9240139.764	ug/L	140.412
Al	27	33.643662	254217.216	ug/L	2.552
Si	28		18017248.211	ug/L	
P	31	102.372653	54686.178	ug/L	0.110
S	32		98613154.043	ug/L	
Cl	35		12416731.952	ug/L	
K	39	5051.996799	60254388.395	ug/L	17.586
Ca	44	29746.561781	10327232.268	ug/L	701.310
Sc	45		222789.972	ug/L	
Ti	47	2.993465	3161.915	ug/L	0.188
Ti	48	24.858246	259066.708	ug/L	0.460
V	51	0.405684	40808.129	ug/L	0.068
ClO	51		42066.191	ug/L	
Cr	52	-0.006162	11950.844	ug/L	0.016
Cr	53	1.026394	13362.615	ug/L	0.113
Fe	54	3866.051710	3516214.453	ug/L	121.007
Mn	55	166.823789	2973493.240	ug/L	3.038
Fe	56	3898.023401	63758866.771	ug/L	40.357
Fe	57	3875.656946	1308403.083	ug/L	30.980
Co	59	0.101666	1934.892	ug/L	0.003
Ni	60	2.188505	6141.469	ug/L	0.043
Ni	62	1.526817	705.368	ug/L	0.078
Cu	63	0.887326	5988.032	ug/L	0.047
Zn	64	19.610350	58826.179	ug/L	0.305
Cu	65	0.454926	1522.143	ug/L	0.006
Zn	66	19.877114	34747.292	ug/L	0.551
Zn	68	20.918510	25764.047	ug/L	0.627
Ge	72		185315.069	ug/L	
As	75	19.235635	35319.238	ug/L	0.096
Se	74	-4.701858	14143.206	mg/L	4.499
ArCl	77		1091.410	ug/L	
Br	79		86933.494	ug/L	

Br	81		116778.017	ug/L	
Y	89		482559.938	ug/L	
Mo	95	1.347660	6188.834	ug/L	0.010
Rh	103		422965.136	ug/L	
Ag	107	-0.055081	401.013	ug/L	0.002
Ag	109	-0.058112	365.678	ug/L	0.000
Cd	111	0.076620	428.681	ug/L	0.010
Cd	114	0.082060	989.064	ug/L	0.008
In	115		555312.888	ug/L	
Sb	121	0.032592	431.348	ug/L	0.002
Sb	123	0.034810	346.041	ug/L	0.001
Ba	137	42.092140	199414.544	ug/L	0.820
Ba	138	42.168177	1276454.574	ug/L	0.691
Tb	159		603286.651	ug/L	
Ho	165		569757.119	ug/L	
Hg	200	0.021973	68.001	ug/L	0.000
Hg	202	0.017042	74.668	ug/L	0.004
Tl	205	-0.004386	1698.844	ug/L	0.010
Pb	208	0.143783	7818.737	ug/L	0.004
Bi	209		446955.977	ug/L	
Se	77	0.893968	1098.733	mg/L	0.181
Se	78	-0.348054	18550.084	mg/L	0.330
Se	82	0.841520	184.099	mg/L	0.190

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		102.432
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

	Fe	
	Fe	
	Co	
	Ni	
	Ni	
	Cu	
	Zn	
	Cu	
	Zn	
	Zn	
>	Ge	96.975
	As	
	Se	
	ArCl	
	Br	
	Br	
	Y	
	Mo	
	Rh	
	Ag	
	Ag	
	Cd	
	Cd	
>	In	97.196
	Sb	
	Sb	
	Ba	
	Ba	
	Tb	
>	Ho	96.155
	Hg	
	Hg	
	Tl	
	Pb	
	Bi	
	Se	
	Se	
	Se	

Sample ID: 113689.09
Sample Date/Time: Monday, September 10, 2012 18:34:20
Autosampler Position: 52
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.09.49515

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5928.600	ug/L	
Be	9	0.006729	5.667	ug/L	0.005
B	10	9.325084	725.703	ug/L	0.210
B	11	9.376717	3491.039	ug/L	0.032
C	12		545187.181	ug/L	
Na	23	56978.050622	366637001.853	ug/L	518.397
Mg	24	9964.512137	43724236.275	ug/L	64.972
Mg	25	10159.807384	6256794.855	ug/L	205.100
Al	27	47.391275	328057.288	ug/L	0.432
Si	28		10377430.899	ug/L	
P	31	41.854888	27139.895	ug/L	5.838
S	32		95472633.153	ug/L	
Cl	35		13233482.547	ug/L	
K	39	2872.203218	32076009.122	ug/L	79.720
Ca	44	29392.139074	9441660.128	ug/L	1006.563
Sc	45		206154.687	ug/L	
Ti	47	3.033250	2965.180	ug/L	0.072
Ti	48	26.942741	260344.186	ug/L	2.191
V	51	0.692891	41388.079	ug/L	0.091
ClO	51		41900.089	ug/L	
Cr	52	0.018835	11318.175	ug/L	0.026
Cr	53	1.445333	12893.265	ug/L	0.269
Fe	54	1590.212985	1378228.805	ug/L	17.480
Mn	55	219.763119	3618330.422	ug/L	8.278
Fe	56	1731.060982	28351501.509	ug/L	70.417
Fe	57	1783.230266	562940.789	ug/L	47.535
Co	59	0.097184	1737.517	ug/L	0.003
Ni	60	0.903752	2420.680	ug/L	0.000
Ni	62	0.288608	175.337	ug/L	0.005
Cu	63	0.927120	5776.893	ug/L	0.015
Zn	64	3.444854	10635.944	ug/L	0.070
Cu	65	0.329219	1052.405	ug/L	0.006
Zn	66	3.134389	5693.506	ug/L	0.053
Zn	68	3.420086	4415.783	ug/L	0.098
Ge	72		174107.590	ug/L	
As	75	3.177849	5228.164	ug/L	0.081
Se	74	-11.073762	12295.980	mg/L	13.959
ArCl	77		1091.410	ug/L	
Br	79		41126.501	ug/L	

Br	81		66568.691	ug/L	
Y	89		459217.298	ug/L	
Mo	95	0.503262	2195.620	ug/L	0.009
Rh	103		400368.373	ug/L	
Ag	107	-0.050617	422.347	ug/L	0.002
Ag	109	-0.054597	376.678	ug/L	0.000
Cd	111	0.067828	370.678	ug/L	0.003
Cd	114	0.069762	832.380	ug/L	0.003
In	115		512718.738	ug/L	
Sb	121	0.017175	249.673	ug/L	0.001
Sb	123	0.017242	191.780	ug/L	0.002
Ba	137	10.209614	44707.444	ug/L	0.108
Ba	138	10.315073	288550.723	ug/L	0.079
Tb	159		563458.551	ug/L	
Ho	165		532170.156	ug/L	
Hg	200	0.009658	40.000	ug/L	0.000
Hg	202	0.003770	36.667	ug/L	0.002
Tl	205	-0.011600	1413.793	ug/L	0.013
Pb	208	0.184570	8636.036	ug/L	0.007
Bi	209		413388.709	ug/L	
Se	77	0.757138	1078.731	mg/L	0.890
Se	78	-1.875949	17826.718	mg/L	1.676
Se	82	0.423825	98.283	mg/L	0.055

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		94.784
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
┌> Ge 91.110
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
|> In 89.741
| Sb
| Sb
| Ba
└ Ba
┌ Tb
|> Ho 89.812
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.10
Sample Date/Time: Monday, September 10, 2012 18:40:46
Autosampler Position: 53
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.10.49516

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		6119.392	ug/L	
Be	9	-0.001930	3.333	ug/L	0.000
B	10	10.206109	806.377	ug/L	0.530
B	11	10.535826	3978.910	ug/L	0.069
C	12		560843.266	ug/L	
Na	23	58073.326211	382418036.713	ug/L	1887.445
Mg	24	8902.563028	39971128.151	ug/L	37.697
Mg	25	8906.715861	5613742.703	ug/L	158.596
Al	27	16.688180	124056.385	ug/L	0.047
Si	28		10788176.961	ug/L	
P	31	12.292159	16085.829	ug/L	0.526
S	32		106526308.966	ug/L	
Cl	35		13566829.506	ug/L	
K	39	2959.448644	33801821.164	ug/L	86.413
Ca	44	24855.953461	8178416.600	ug/L	772.379
Sc	45		210917.445	ug/L	
Ti	47	1.070855	1212.093	ug/L	0.003
Ti	48	20.468326	201518.269	ug/L	2.258
V	51	0.678977	42182.083	ug/L	0.045
ClO	51		43440.044	ug/L	
Cr	52	-0.043674	10916.329	ug/L	0.002
Cr	53	1.742641	13580.940	ug/L	0.000
Fe	54	508.963206	498097.276	ug/L	11.983
Mn	55	298.908707	5031546.965	ug/L	4.691
Fe	56	555.116691	12007358.569	ug/L	7.232
Fe	57	614.777886	206086.931	ug/L	0.729
Co	59	1.169863	14978.147	ug/L	0.010
Ni	60	1.471134	3950.898	ug/L	0.032
Ni	62	0.919445	428.014	ug/L	0.024
Cu	63	0.851346	5457.025	ug/L	0.008
Zn	64	2.618746	8594.431	ug/L	0.055
Cu	65	0.222003	766.373	ug/L	0.011
Zn	66	2.303291	4481.816	ug/L	0.002
Zn	68	2.735314	3740.474	ug/L	0.137
Ge	72		177971.849	ug/L	
As	75	1.704703	2721.579	ug/L	0.045
Se	74	13.944009	16502.902	mg/L	6.818
ArCl	77		1126.081	ug/L	
Br	79		36136.559	ug/L	

Br	81		62415.957	ug/L	
Y	89		468060.872	ug/L	
Mo	95	0.629769	2798.792	ug/L	0.025
Rh	103		413984.641	ug/L	
Ag	107	-0.056068	372.011	ug/L	0.002
Ag	109	-0.057913	352.010	ug/L	0.000
Cd	111	0.046728	321.342	ug/L	0.007
Cd	114	0.057664	780.041	ug/L	0.005
In	115		531126.083	ug/L	
Sb	121	0.016683	254.006	ug/L	0.001
Sb	123	0.018888	210.951	ug/L	0.003
Ba	137	18.746257	84964.377	ug/L	0.474
Ba	138	18.856178	546022.190	ug/L	0.434
Tb	159		574757.702	ug/L	
Ho	165		541197.905	ug/L	
Hg	200	0.016849	54.667	ug/L	0.001
Hg	202	0.006997	45.334	ug/L	0.005
Tl	205	-0.008839	1503.475	ug/L	0.013
Pb	208	0.049740	4297.106	ug/L	0.004
Bi	209		428911.292	ug/L	
Se	77	0.602059	1056.061	mg/L	0.258
Se	78	-1.482806	18012.848	mg/L	0.453
Se	82	0.477925	109.398	mg/L	0.127

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
⌈	Li		
|	Be		
|	B		
|	B		
|	C		
|	Na		
|	Mg		
|	Mg		
|	Al		
|	Si		
|	P		
|	S		
|	Cl		
|	K		
|	Ca		
>	Sc		96.974
|	Ti		
|	Ti		
|	V		
|	ClO		
|	Cr		
|	Cr		
|	Fe		
|	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 93.132
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 92.963
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 91.335
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Sample ID: 113689.11
Sample Date/Time: Monday, September 10, 2012 18:47:11
Autosampler Position: 54
Sample Description: 1:1 Be rerun
Batch ID:
Method File: C:\Elandata\Method\tim.mth
Dataset File: C:\Elandata\Dataset\default\113689.11.49517

Concentration Results

Analyte	Mass	Conc. Mean	Meas. Intens. Mean	Report Unit	Conc. SD
Li	6		5844.547	ug/L	
Be	9	0.012392	7.333	ug/L	0.001
B	10	116.011704	8427.656	ug/L	3.674
B	11	119.463725	41963.748	ug/L	5.783
C	12		739805.576	ug/L	
Na	23	67554.508871	441748061.124	ug/L	3417.970
Mg	24	12998.660331	57946725.527	ug/L	980.407
Mg	25	13256.679929	8296948.023	ug/L	781.698
Al	27	0.386638	11625.257	ug/L	0.043
Si	28		18548483.747	ug/L	
P	31	19.705029	18931.852	ug/L	6.912
S	32		91613822.860	ug/L	
Cl	35		12092293.621	ug/L	
K	39	3428.589047	38752137.827	ug/L	97.314
Ca	44	35919.004307	11723819.207	ug/L	1510.197
Sc	45		209594.492	ug/L	
Ti	47	0.853892	1003.732	ug/L	0.070
Ti	48	21.577893	211207.712	ug/L	1.165
V	51	0.386655	38149.258	ug/L	0.071
ClO	51		39384.861	ug/L	
Cr	52	-0.020382	11093.464	ug/L	0.011
Cr	53	0.915238	12426.278	ug/L	0.271
Fe	54	2734.467232	2360168.608	ug/L	60.405
Mn	55	271.250825	4537697.886	ug/L	5.221
Fe	56	2676.375401	42423164.494	ug/L	29.762
Fe	57	2808.635509	895113.337	ug/L	36.385
Co	59	0.079228	1546.480	ug/L	0.000
Ni	60	5.334703	13905.101	ug/L	0.005
Ni	62	4.663482	1890.216	ug/L	0.315
Cu	63	0.816705	5215.881	ug/L	0.012
Zn	64	1.449613	5317.215	ug/L	0.050
Cu	65	0.088272	376.345	ug/L	0.002
Zn	66	1.263020	2781.120	ug/L	0.025
Zn	68	2.062558	2956.844	ug/L	0.103
Ge	72		169109.068	ug/L	
As	75	7.148163	11790.929	ug/L	0.035
Se	74	-24.186712	10005.650	mg/L	1.879
ArCl	77		1026.068	ug/L	
Br	79		290682.187	ug/L	

Br	81		332762.648	ug/L	
Y	89		450535.089	ug/L	
Mo	95	0.971359	4081.290	ug/L	0.003
Rh	103		383943.160	ug/L	
Ag	107	-0.052450	391.012	ug/L	0.001
Ag	109	-0.056295	349.010	ug/L	0.000
Cd	111	0.037126	276.007	ug/L	0.008
Cd	114	0.044288	649.363	ug/L	0.006
In	115		500069.715	ug/L	
Sb	121	0.031551	378.678	ug/L	0.003
Sb	123	0.032158	292.869	ug/L	0.001
Ba	137	27.273867	116386.806	ug/L	0.319
Ba	138	27.504280	749903.586	ug/L	0.076
Tb	159		550008.744	ug/L	
Ho	165		522530.956	ug/L	
Hg	200	0.003998	28.667	ug/L	0.003
Hg	202	0.001738	31.000	ug/L	0.002
Tl	205	-0.011252	1398.123	ug/L	0.008
Pb	208	-0.027749	1661.077	ug/L	0.005
Bi	209		411442.641	ug/L	
Se	77	0.474349	1037.393	mg/L	0.232
Se	78	-1.007271	18237.984	mg/L	0.901
Se	82	2.930403	613.264	mg/L	0.020

QC Calculated Values

	Analyte	QC Std % Recovery	Int Std % Recovery
	Li		
	Be		
	B		
	B		
	C		
	Na		
	Mg		
	Mg		
	Al		
	Si		
	P		
	S		
	Cl		
	K		
	Ca		
>	Sc		96.365
	Ti		
	Ti		
	V		
	ClO		
	Cr		
	Cr		
	Fe		
	Mn		

| Fe
| Fe
| Co
| Ni
| Ni
| Cu
| Zn
| Cu
| Zn
└ Zn
> Ge 88.494
| As
| Se
| ArCl
| Br
| Br
| Y
└ Mo
┌ Rh
| Ag
| Ag
| Cd
| Cd
> In 87.527
| Sb
| Sb
| Ba
└ Ba
┌ Tb
> Ho 88.185
| Hg
| Hg
| Tl
| Pb
└ Bi
Se
Se
Se

Eastern Analytical Inc.

Aqueous Digestion Logbook

BatSamNum	Prep Date	Digestion Batch ID	Reagent/Chem Inv.			Temp. °C	Analyst	Notes
BLANK	9/4/12	A	44354.6	41628.2	43174.1	83.6	ET	
LCS			71356.1	43821.4	43816.1			
LCS Ag				43818.1				
113655.01								
113684.01								
.02								
MS			71356.1	43821.4	43816.1			
MSD			"	"	"			
113685.01								
~~113677.01~~								
113678 ~~.01~~								
~~113679.01~~								
113689.01	9/4/12	A						
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								
43690.01								

+23°C

Eastern Analytical, Inc.
professional laboratory & drilling services

November 28, 2012

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook, NH 03229

Addendum: 113593, 113653 and 113689

Mr. McKibben

Enclosed please find the data requested by Ms. Taryn Scholz of Quality Assurance Associates. The enclosed data is an addendum to the final reports issued for EAI SRB: 113593, 113653 and 113689.

Please do not hesitate to contact me with any additional questions or concerns.

Sincerely,

Kathleen E. Noonan-Kelley
QA/QC Coordinator

ENC. 8 pages

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	337733	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.14	95	128113	10.16	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.58%			
78) SS 1,2-DCB-d4_MS	19.76	152	135542	10.59	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.85%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	d	
3) chloromethane	0.00	50	0	N.D.	d	
4) vinyl chloride	0.00	62	0	N.D.	d	
5) bromomethane	0.00	94	0	N.D.	d	
6) chloroethane	0.00	64	0	N.D.	d	
7) trichlorofluoromethane	0.00	101	0	N.D.	d	
8) diethyl ether	5.02	59	1884433	274.730	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	5.25	101	2693982	265.663	ug/L	98
10) acetone	5.39	43	597498	311.338	ug/L	97
11) 1,1-dichloroethene	5.60	96	2494588	265.035	ug/L	97
12) tert-Butyl Alcohol(TBA)	5.94	59	1010649m	1441.982	ug/L	
13) methylene chloride	6.54	84	2605428	259.985	ug/L	97
14) carbon disulfide	6.56	76	6881922	263.188	ug/L	98
15) acrylonitrile	6.82	53	854560	259.193	ug/L	98
16) Methyl-t-butyl ether(MTBE)	6.85	73	13242292	538.527	ug/L	97
17) trans-1,2-dichloroethene	7.14	96	2665871	301.091	ug/L	95
18) hexane	7.28	57	3289594	282.570	ug/L	97
19) Isopropyl ether(DIPE)	7.83	45	7923155	288.552	ug/L	96
20) vinyl acetate	0.00	43	0	N.D.	d	
21) 1,1-dichloroethane	8.04	63	4509875	284.706	ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.70	59	7634176	302.290	ug/L	96
23) 2,2-dichloropropane	9.24	77	3971980	293.767	ug/L	92
24) cis-1,2-dichloroethene	9.36	61	3457011	286.879	ug/L	97
25) 2-butanone(MEK)	8.98	43	945469	275.351	ug/L	96
26) bromochloromethane	10.08	128	1494653	316.022	ug/L	94
27) Tetrahydrofuran(THF)	10.16	42	598067	271.529	ug/L	97
28) chloroform	9.71	83	4672440	296.082	ug/L	99
29) SS Dibromofluoromethane_MS	10.20	111	77219	10.079	ug/L #	1
30) 1,1,1-trichloroethane	10.59	97	4219895	307.985	ug/L	97
31) carbon tetrachloride	11.17	117	3986905	338.805	ug/L	98
32) 1,1-dichloropropene	10.97	75	3882031	292.701	ug/L	91
33) SS 1,2-DCA-d4_MS	11.33	65	86328	9.296	ug/L #	61
34) tert-amyl methyl ether(TAM	11.25	73	7740298	320.451	ug/L	94
35) benzene	11.56	78	11526590	294.121	ug/L	98
36) 1,2-dichloroethane	11.54	62	3257726	258.898	ug/L	99
37) trichloroethene	12.73	95	3276423	310.244	ug/L	96
38) 1,2-dichloropropane	13.05	63	2814877	303.107	ug/L	93
39) dibromomethane	13.53	93	1728554	307.057	ug/L	95
40) bromodichloromethane	13.44	83	3831775	338.405	ug/L	99
41) 4-methyl-2-pentanone(MIBK)	14.01	58	813519	314.152	ug/L	93
42) cis-1,3-dichloropropene	14.31	75	4610911	338.570	ug/L #	88
43) Chlorobenzene-D5 IS	16.70	117	258522	10.251	ug/L	99
44) SS Toluene-d8_MS	14.66	98	326814	10.059	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

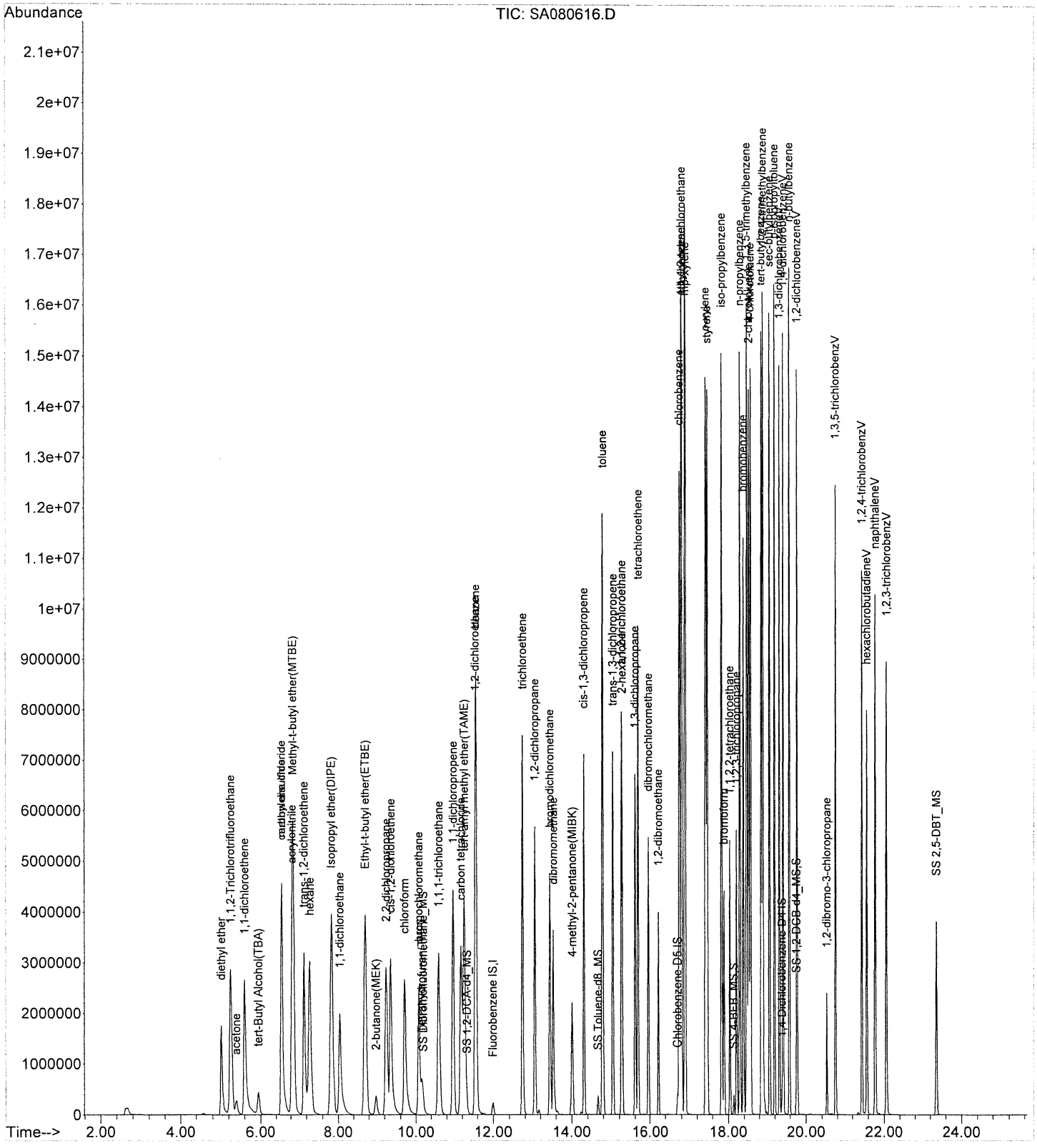
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	11923325	283.582	ug/L		98
46)	trans-1,3-dichloropropene	15.04	75	4406215	347.199	ug/L	#	89
47)	1,1,2-trichloroethane	15.26	83	2066329	312.224	ug/L		94
48)	2-hexanone	15.27	43	1250207	274.468	ug/L		91
49)	tetrachloroethene	15.68	166	3421899	311.759	ug/L	#	94
50)	1,3-dichloropropane	15.60	76	4253537	305.416	ug/L		88
51)	dibromochloromethane	15.96	129	3203573	398.430	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	2673542	325.054	ug/L		99
53)	chlorobenzene	16.75	112	8474592	288.820	ug/L		97
54)	1,1,1,2-tetrachloroethane	16.79	131	2564940	273.778	ug/L		99
55)	ethylbenzene	16.80	91	10997784	228.096	ug/L		96
56)	mp-xylene	16.90	106	8327806	421.543	ug/L		94
57)	o-xylene	17.42	106	5376282	288.687	ug/L		96
58)	styrene	17.46	104	8638974	286.531	ug/L		98
59)	bromoform	17.90	173	1981716	343.457	ug/L		94
60)	iso-propylbenzene	17.83	105	11751338	263.730	ug/L		97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	143345	10.563	ug/L		98
63)	bromobenzene	18.38	156	3801042	308.190	ug/L	#	90
64)	1,1,2,2-tetrachloroethane	18.04	83	2584928	299.435	ug/L		98
65)	1,2,3-trichloropropane	18.21	110	942971	310.567	ug/L		93
66)	n-propylbenzene	18.30	91	13418206	242.710	ug/L		91
67)	2-chlorotoluene	18.52	91	9013121	261.589	ug/L		96
68)	4-chlorotoluene	18.56	91	9104054	264.717	ug/L		96
69)	1,3,5-trimethylbenzene	18.47	105	10199049	298.518	ug/L		98
70)	tert-butylbenzene	18.85	119	9365594	265.266	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	10068952	299.464	ug/L		97
72)	sec-butylbenzene	19.07	105	11798441	242.402	ug/L		96
73)	1,3-dichlorobenzeneV	19.33	146	6421158	277.666	ug/L	#	94
74)	p-isopropyltoluene	19.20	119	10224557	251.138	ug/L		96
75)	1,4-dichlorobenzeneV	19.43	146	6351138	275.525	ug/L	#	96
76)	1,2-dichlorobenzeneV	19.78	146	6038361	281.057	ug/L	#	90
77)	n-butylbenzene	19.59	91	8749088	262.659	ug/L		95
79)	1,2-dibromo-3-chloropropan	20.52	157	655157	416.840	ug/L		93
80)	1,3,5-trichlorobenzV	20.75	180	4199734	327.633	ug/L	#	94
81)	1,2,4-trichlorobenzV	21.44	180	3784076	356.156	ug/L	#	94
82)	hexachlorobutadieneV	21.57	225	1689842	342.711	ug/L		95
83)	naphthaleneV	21.77	128	9023265	413.621	ug/L		99
84)	1,2,3-trichlorobenzV	22.06	180	3335709	365.771	ug/L	#	95
85)	SS 2,5-DBT_MS	23.36	250	1103649	346.069	ug/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 8:20 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:37:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:37:17 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

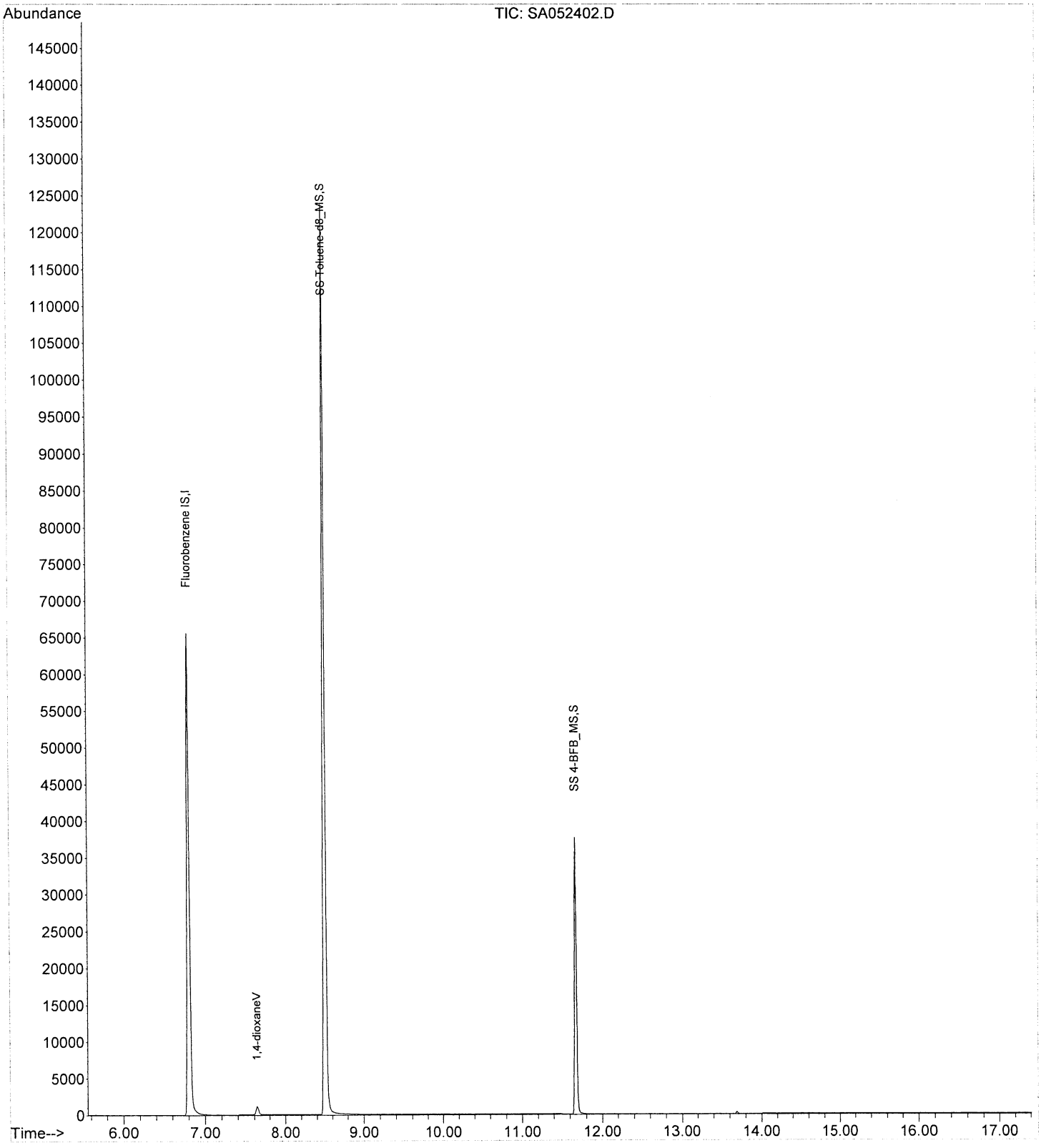
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140949	10.000	ug/L	-0.04
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138600	10.04	ug/L	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
4) SS 4-BFB_MS	11.67	95	63043	10.03	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1506	4.623	ug/L	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:37 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Wed Nov 28 08:41:35 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.02
2		1,4-dioxaneV	5.000	5.118	-2.4	84	0.01
3	S	SS Toluene-d8_MS	10.000	10.208	-2.1	85	0.02
4	S	SS 4-BFB_MS	10.000	9.039	9.6	75	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 08:58:13 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.00
2		1,4-dioxaneV	5.000	5.904	-18.1	97	0.01
3	S	SS Toluene-d8_MS	10.000	8.126	18.7	68	0.00
4	S	SS 4-BFB_MS	10.000	8.228	17.7	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 09:00:13 2012

Kathleen Noonan-Kelley

From: Taryn Scholz [taryn@qaallc.com]
Sent: Tuesday, November 27, 2012 3:15 PM
To: Kathleen Noonan-Kelley
Cc: Kevin Mckibben
Subject: Coakley Landfill 113593, 113653, 113689

Hi Kathleen,

I'm performing the Tier 1 validation of the recent Coakley data. I've found just a few pieces of missing information as follows:
1. 8260B VOCs - The quant report/chromatogram for file SA080616.D (300 M standard) for the 8/6 ICAL on ms5.

2. 8260B SIM 1,4-Dioxane - The quant report/chromatogram for file SA052402.D (STD5) for the 5/24 ICAL on ms2.

3. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090202.D for the 9/2 CCV on ms2.

4. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090218.D for the 9/3 CCV on ms2.

Can you please provide these? Each one is missing from one or more of the three work orders. Please submit as a single addendum for the project to preserve the original page numbers in the data packages.

Please let me know when you'll be able to send them - by Thursday am would be helpful.

Thanks so much,

Taryn

--

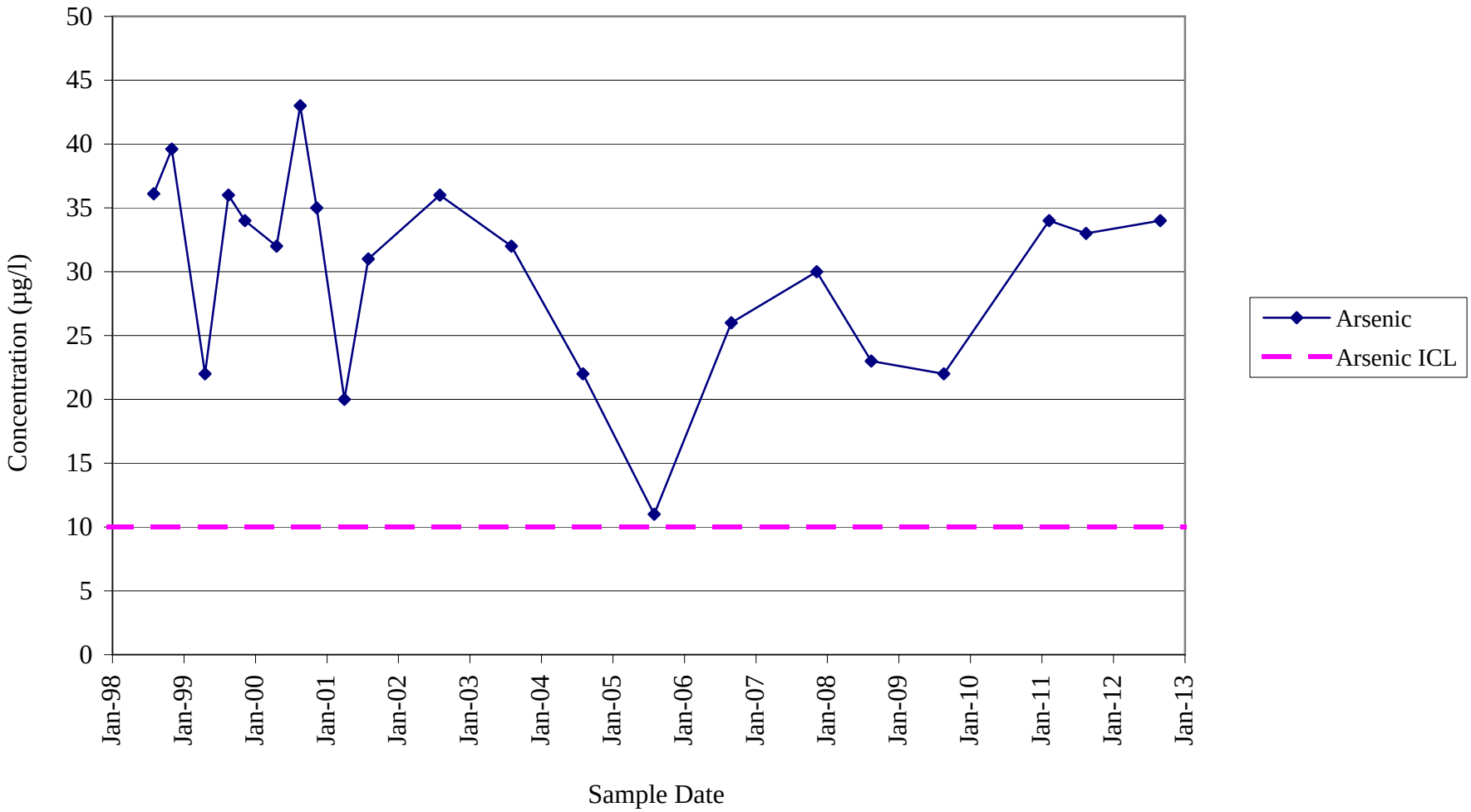
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

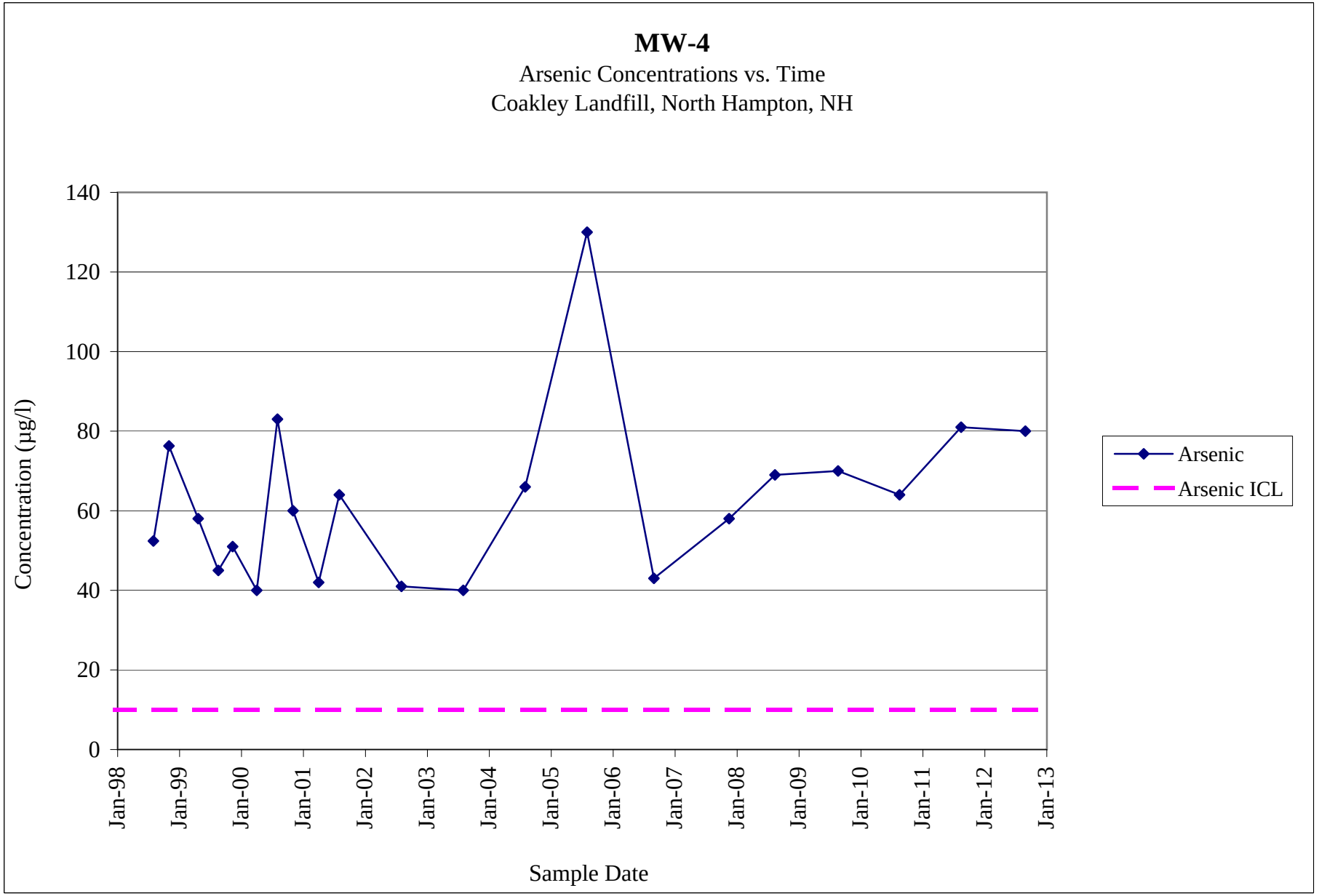
SECTION 4

BP-4

Arsenic Concentrations vs. Time

Coakley Landfill, North Hampton, NH

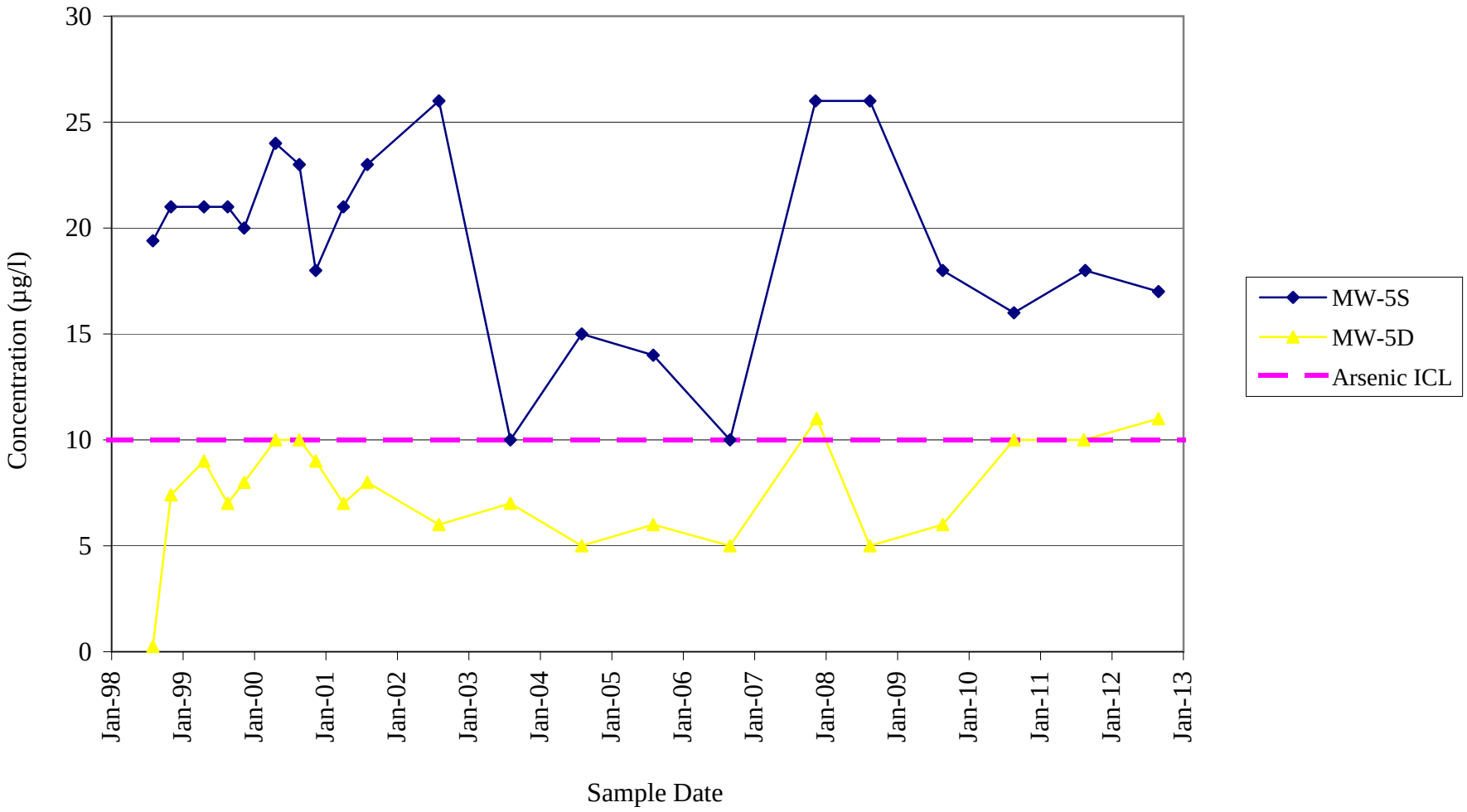



MW-4
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
140
120
100
80
60
40
20
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Arsenic
Arsenic ICL

MW-5S & MW-5D

Arsenic Concentrations vs. Time

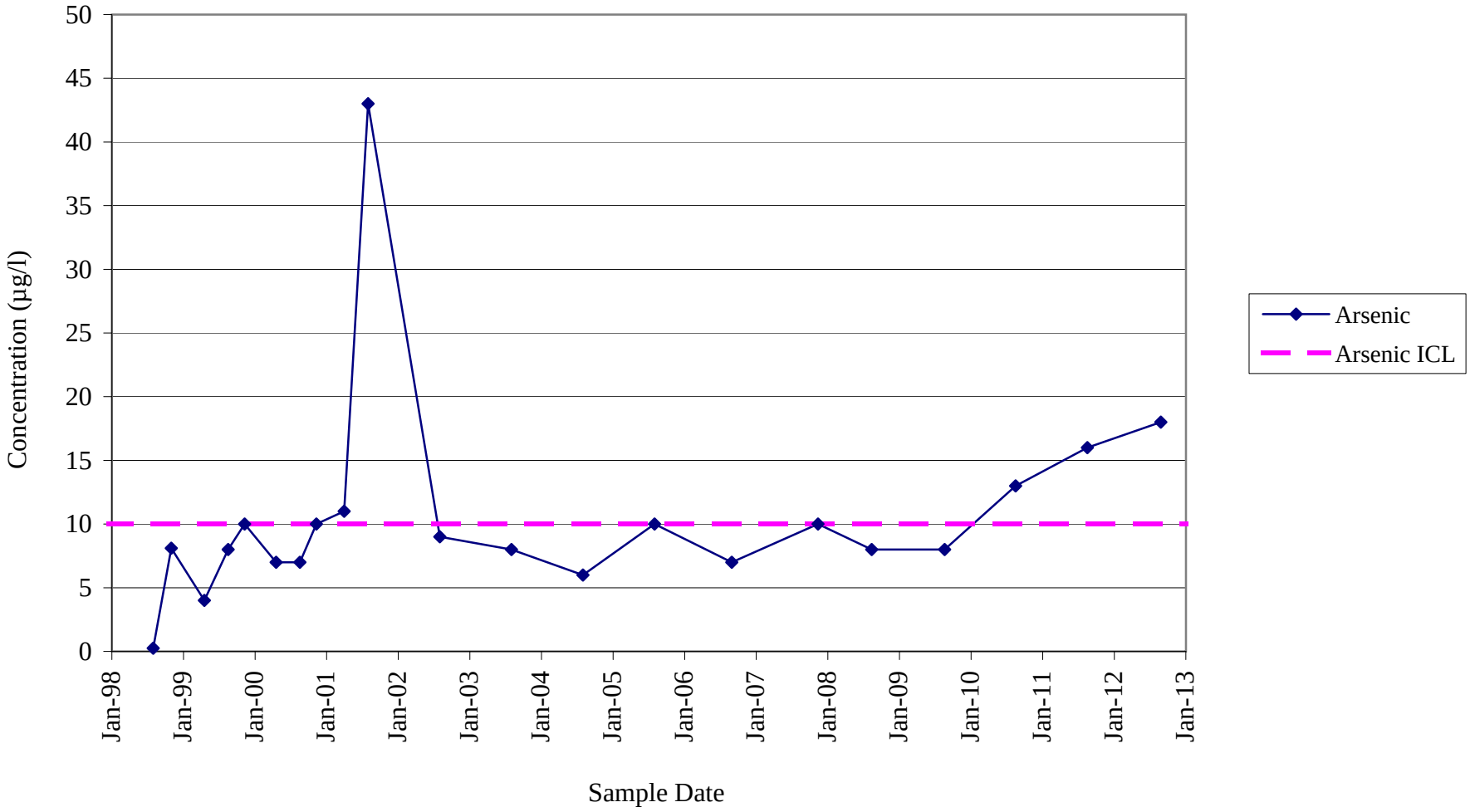
Coakley Landfill, North Hampton, NH

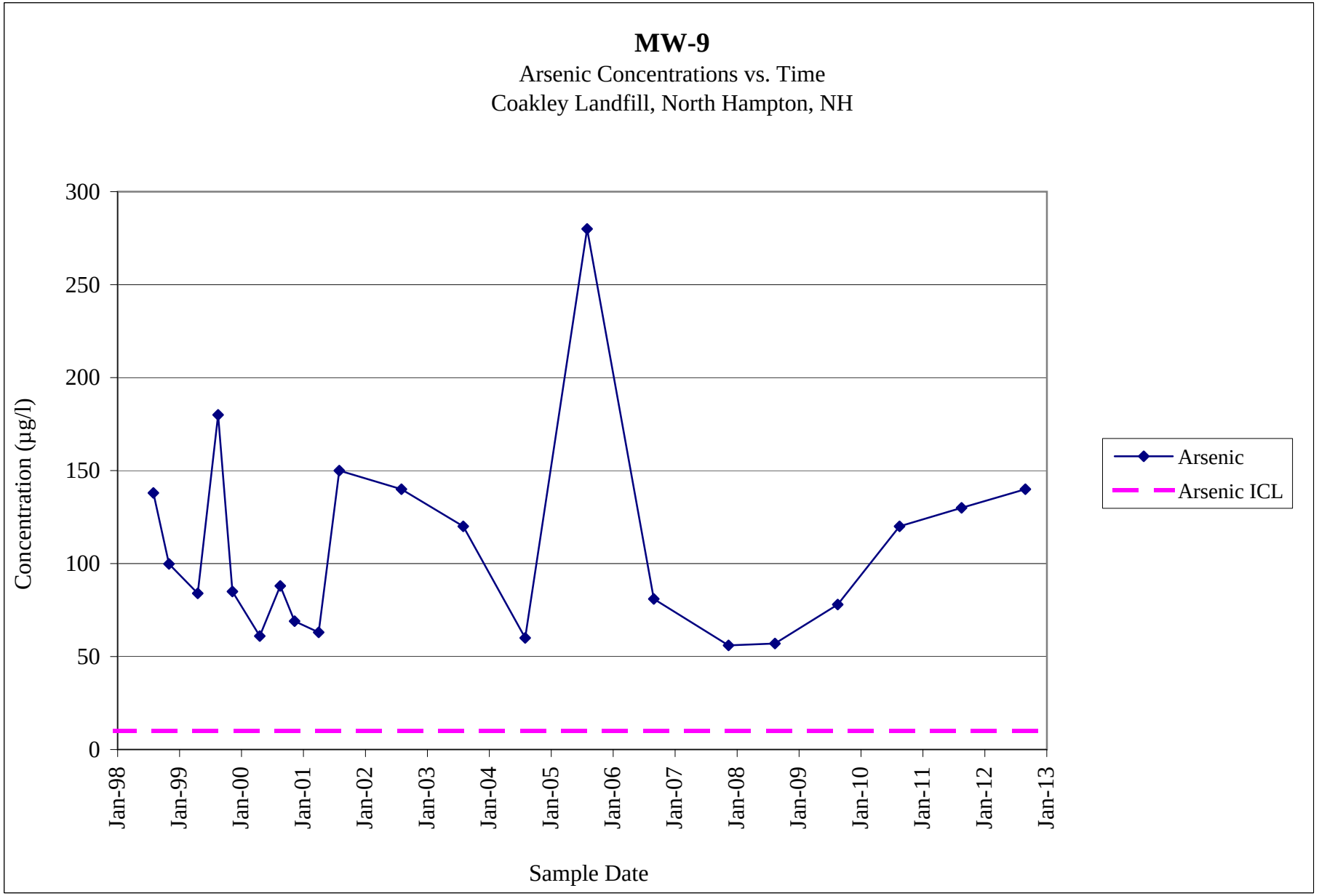


MW-8

Arsenic Concentrations vs. Time

Coakley Landfill, North Hampton, NH

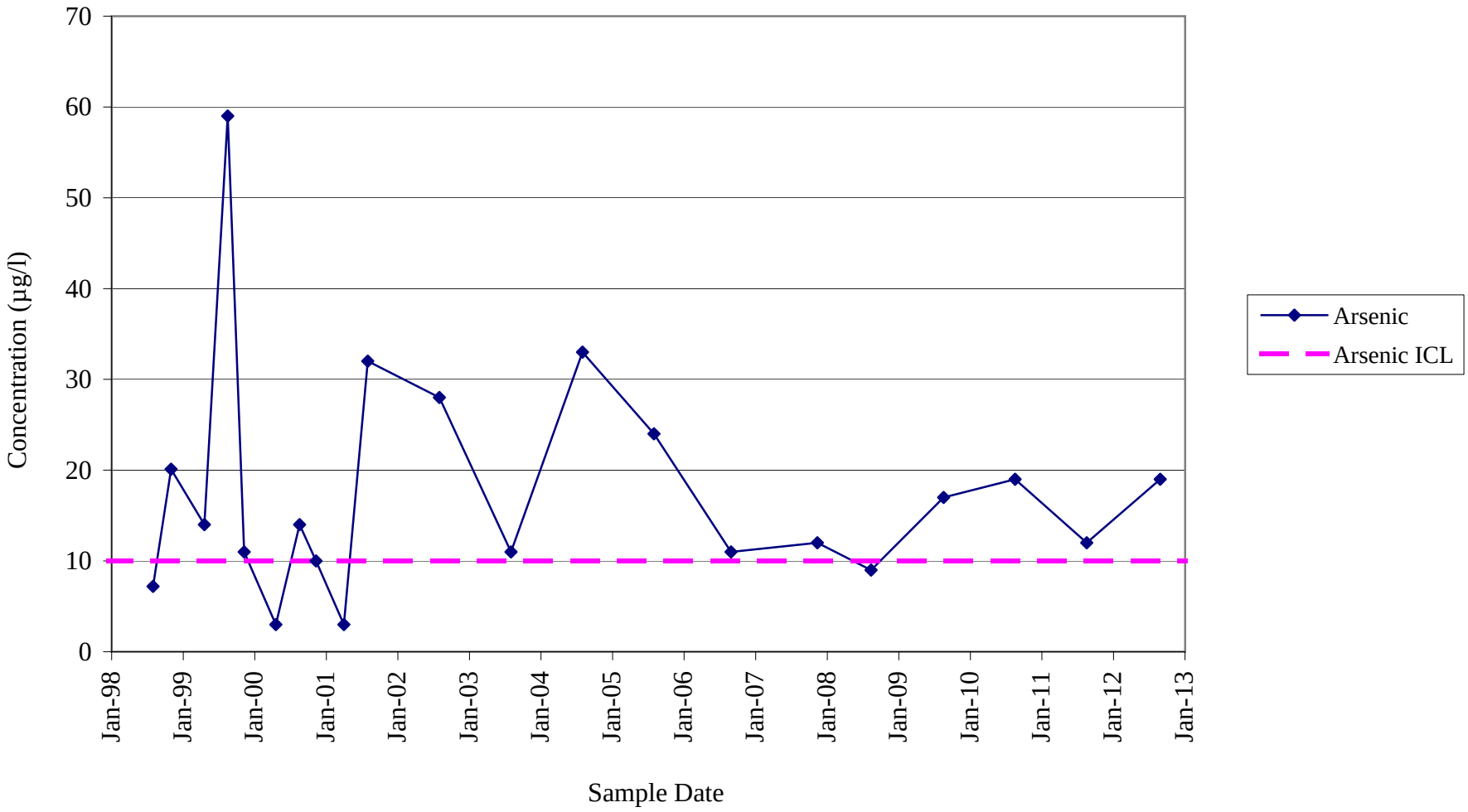



MW-9
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
300
250
200
150
100
50
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Arsenic
Arsenic ICL

MW-10

Arsenic Concentrations vs. Time

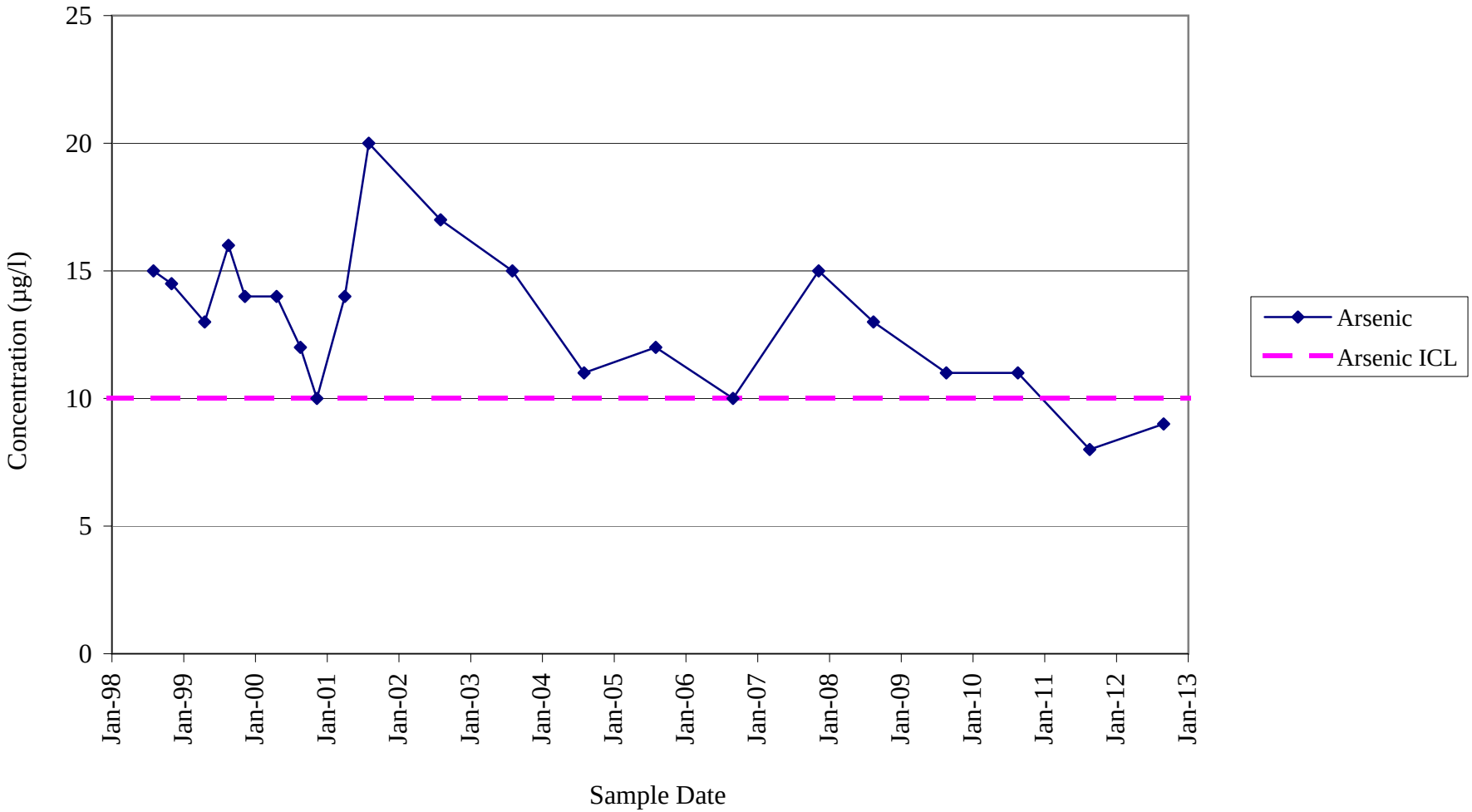
Coakley Landfill, North Hampton, NH

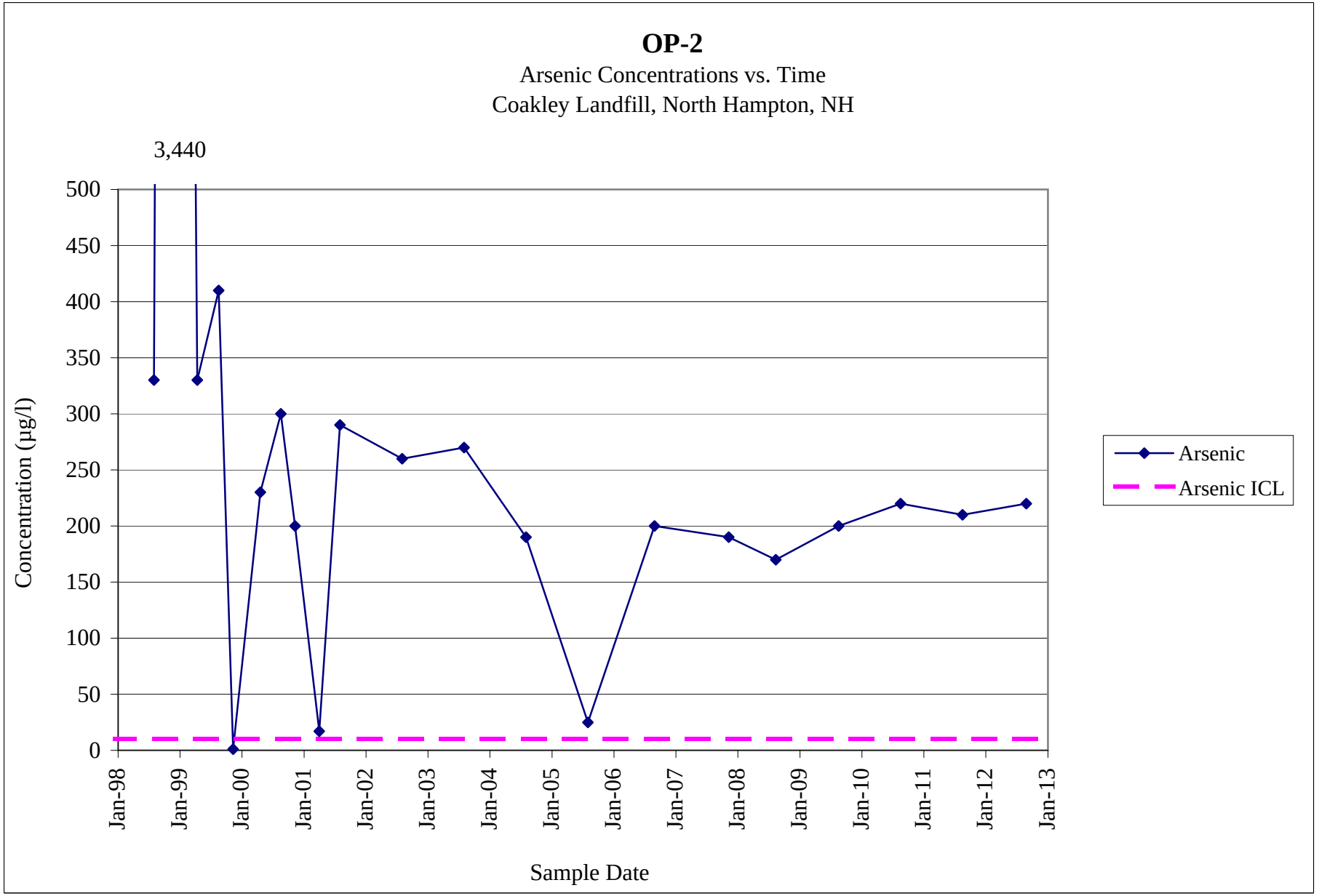


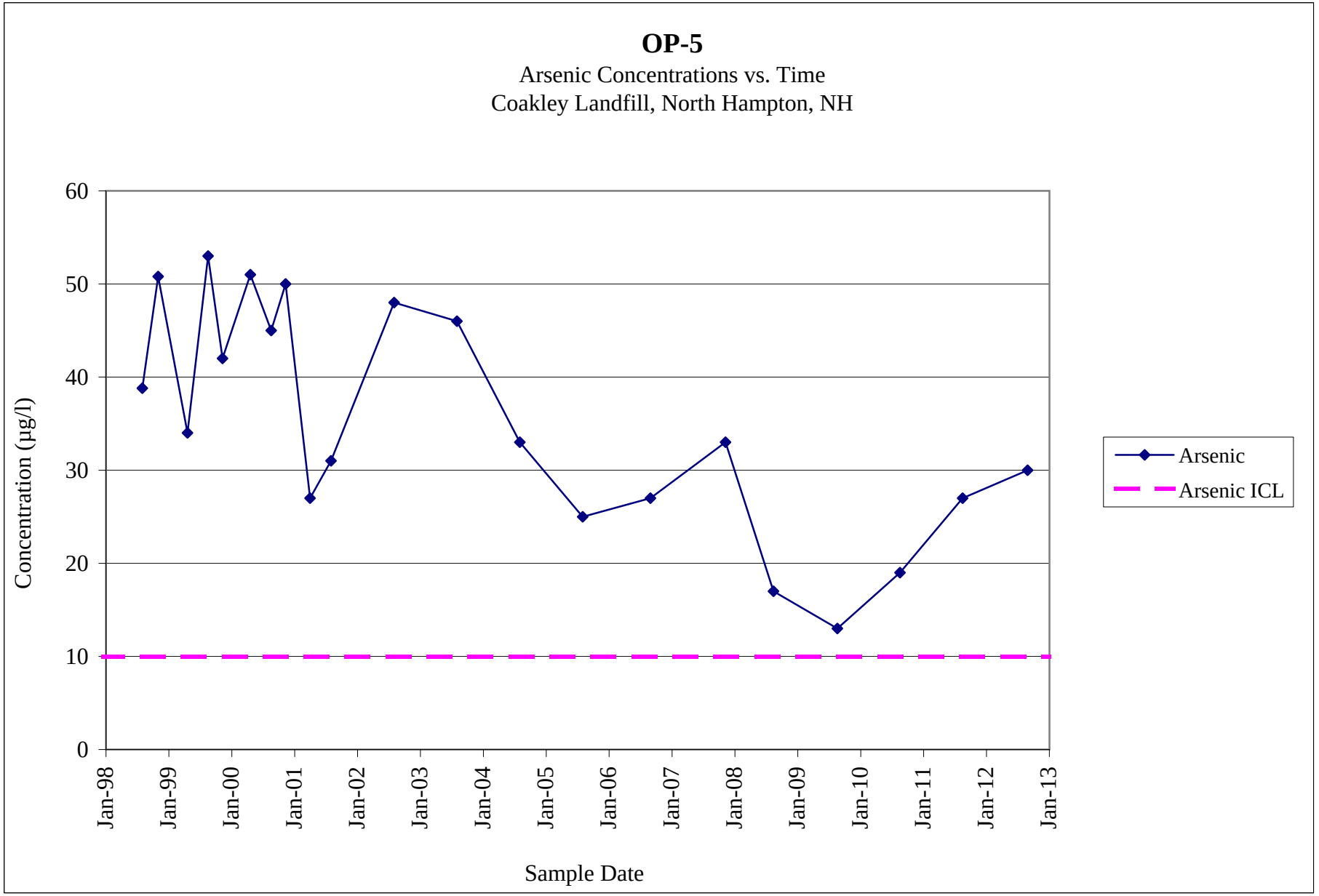
MW-11

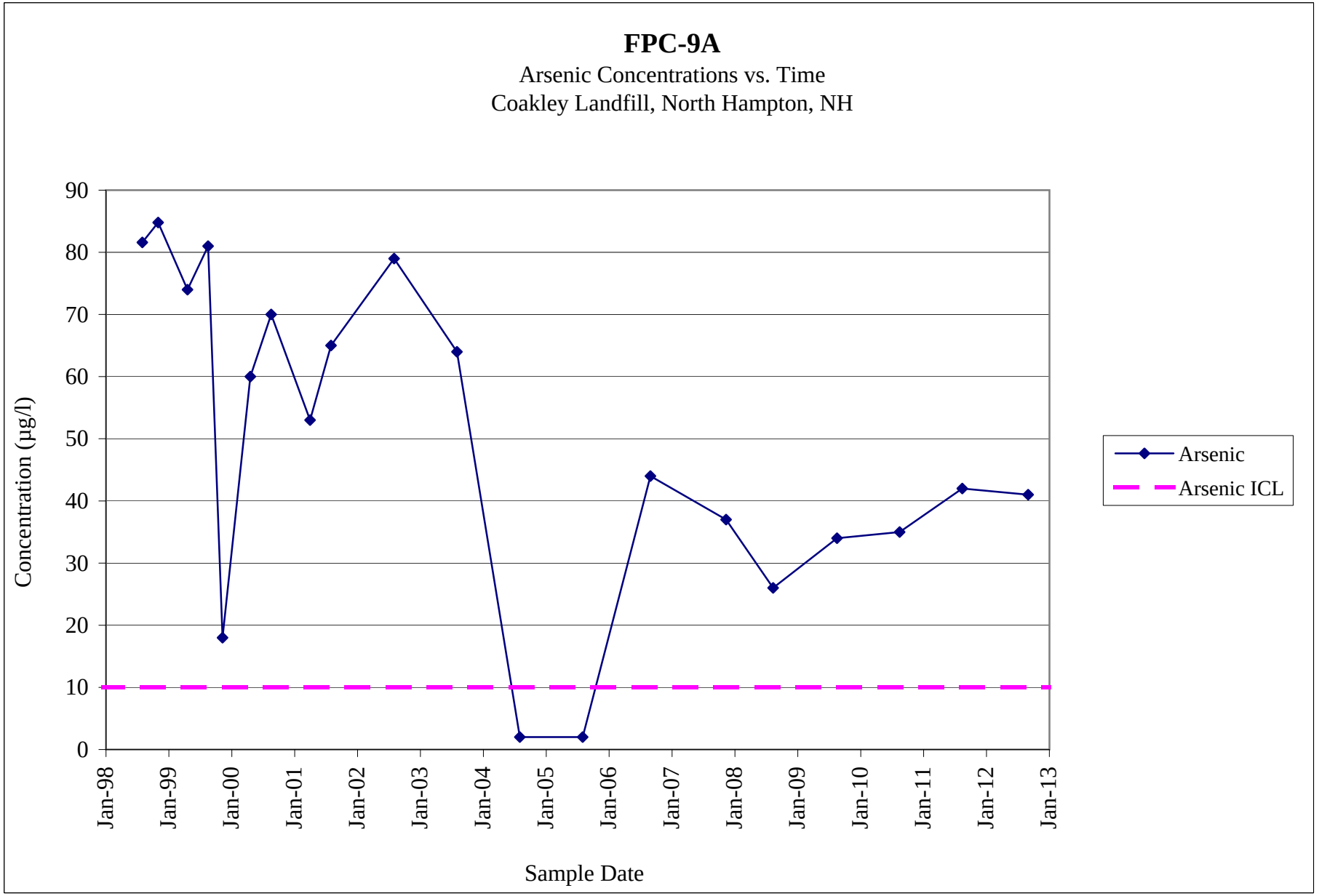
Arsenic Concentrations vs. Time

Coakley Landfill, North Hampton, NH




OP-2
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
3,440
500
450
400
350
300
250
200
150
100
50
0
Concentration (µg/l)
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Arsenic
Arsenic ICL

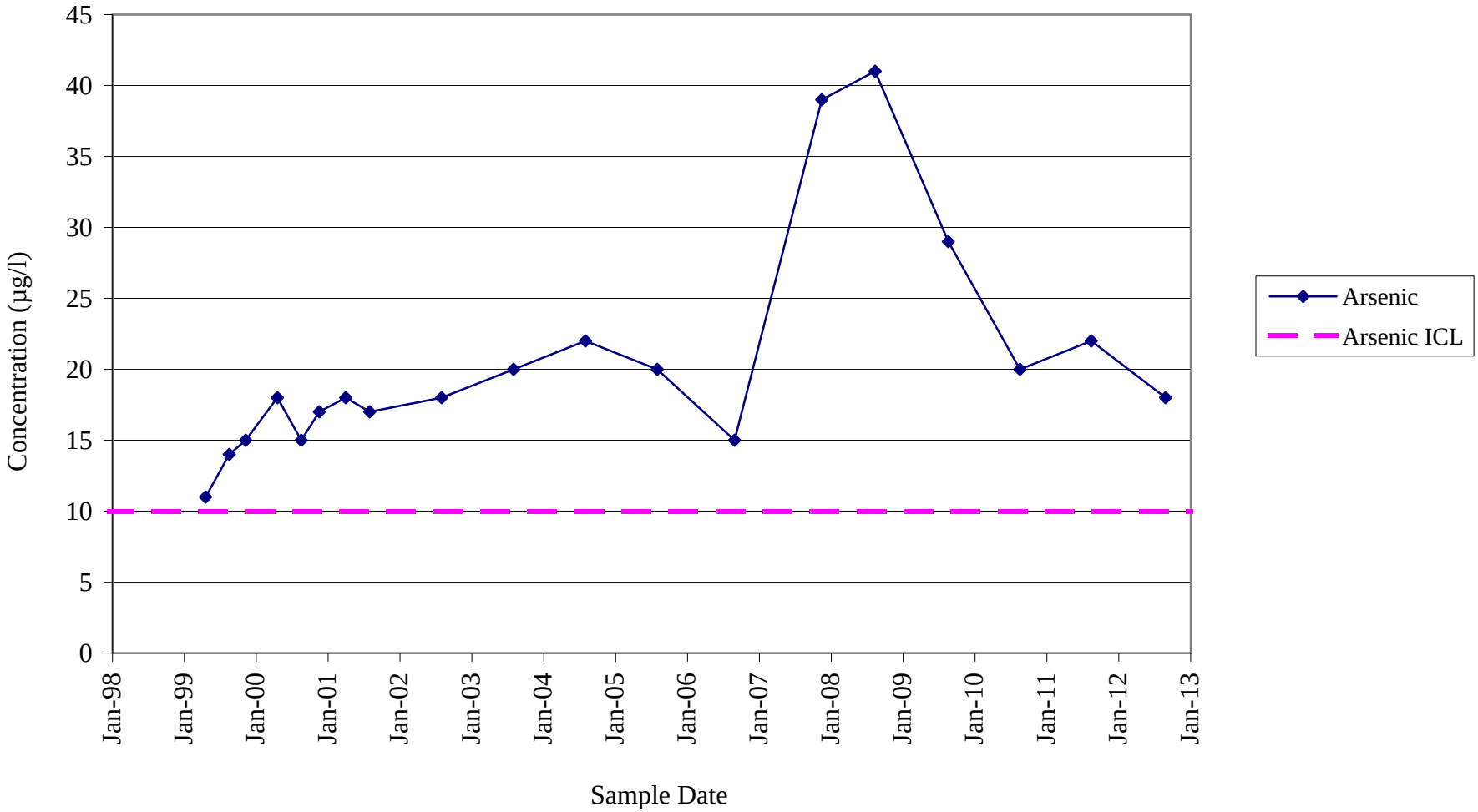

OP-5
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
60
50
40
30
20
10
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Arsenic
Arsenic ICL

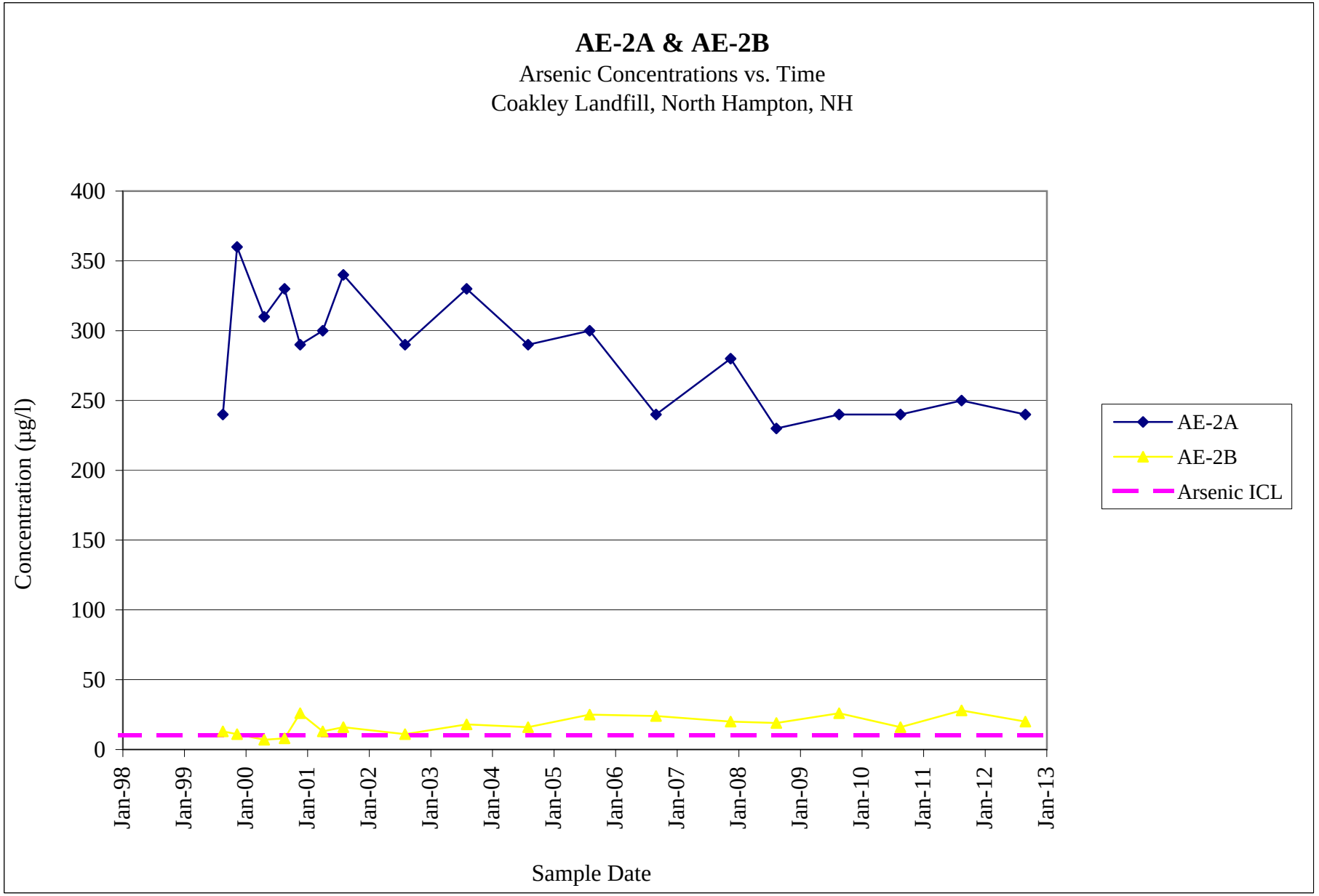

FPC-9A
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
90
80
70
60
50
40
30
20
10
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Arsenic
Arsenic ICL

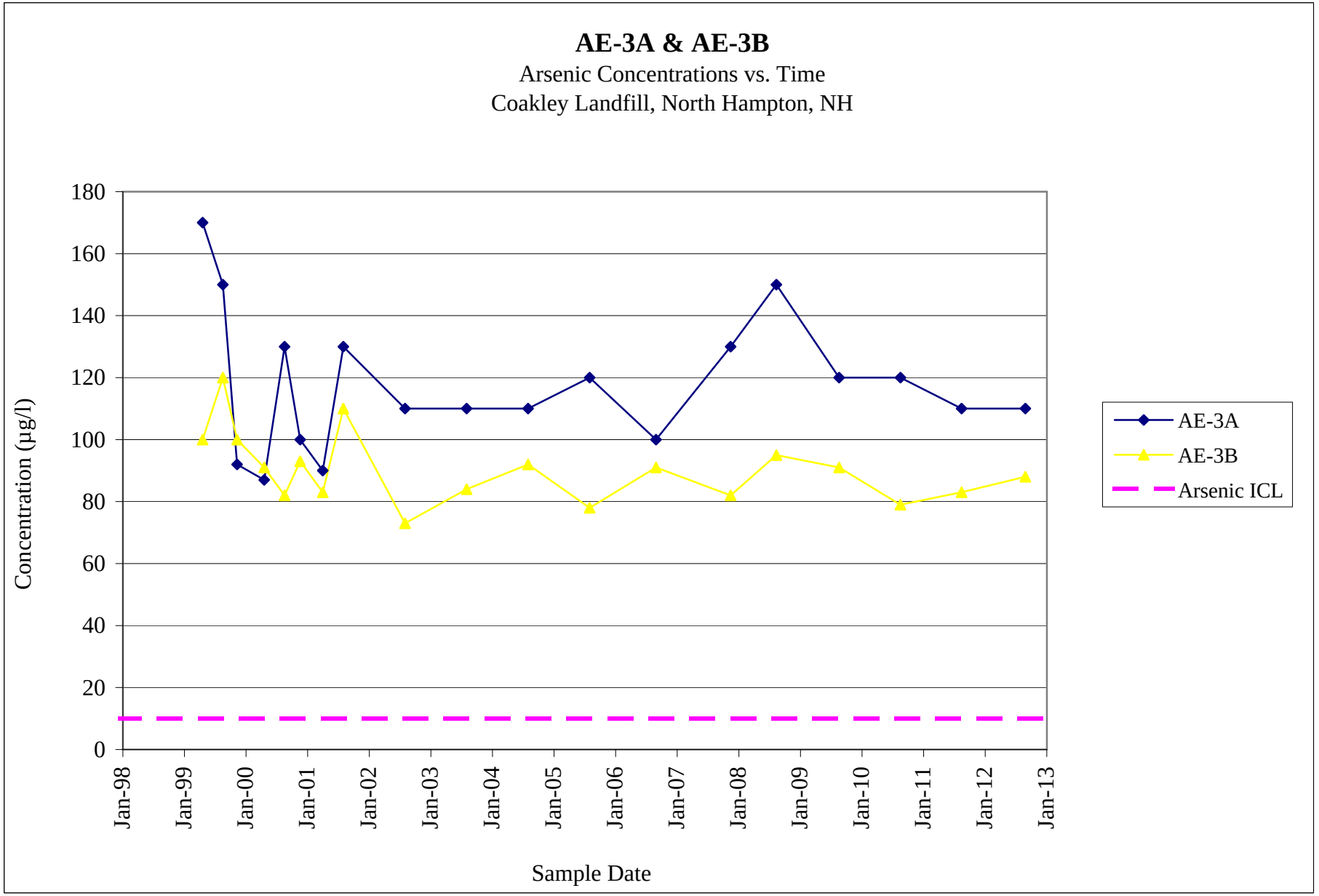
AE-1A

Arsenic Concentrations vs. Time

Coakley Landfill, North Hampton, NH



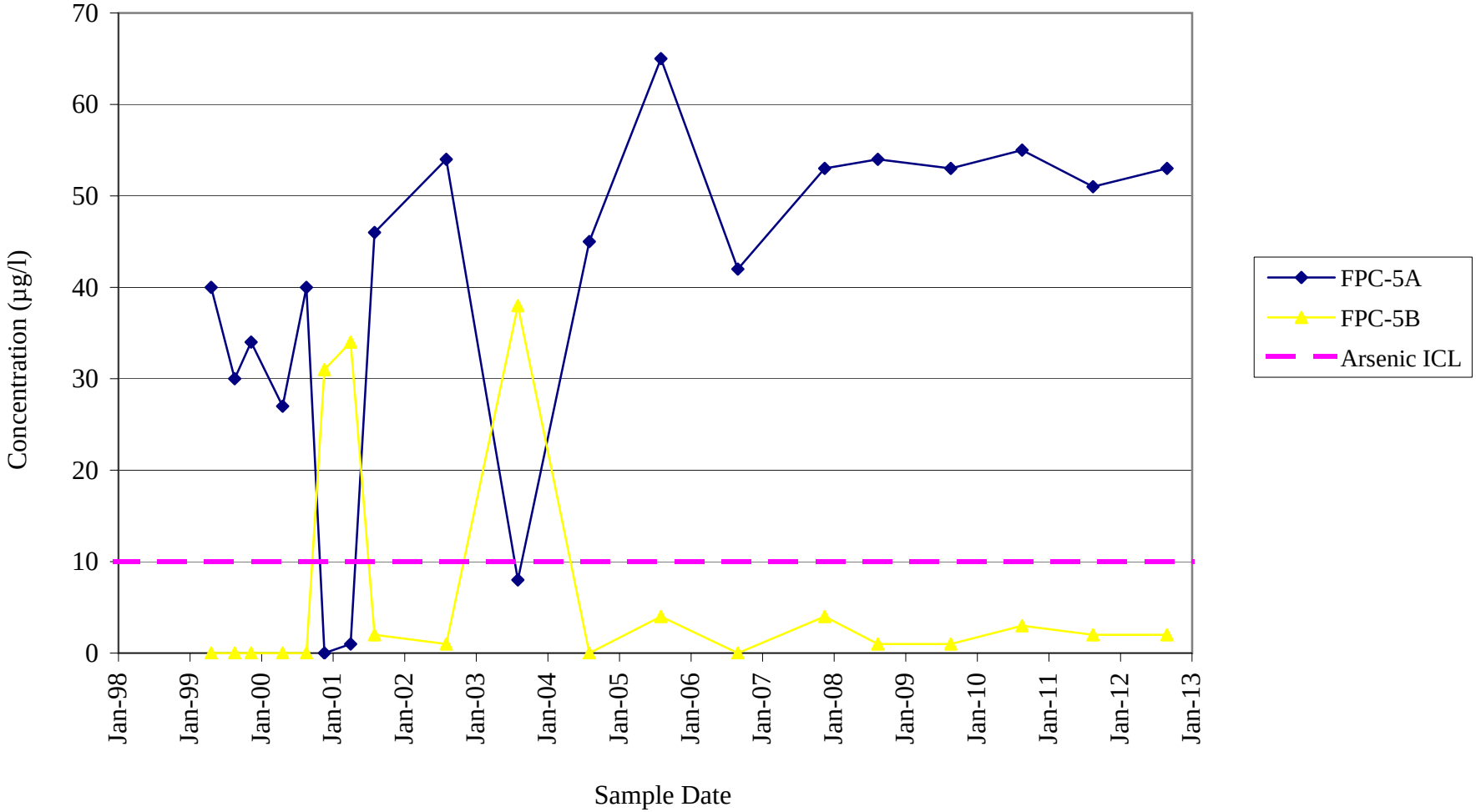

AE-2A & AE-2B
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
400
350
300
250
200
150
100
50
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
AE-2A
AE-2B
Arsenic ICL


AE-3A & AE-3B
Arsenic Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
180
160
140
120
100
80
60
40
20
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
AE-3A
AE-3B
Arsenic ICL

FPC-5A & FPC-5B

Arsenic Concentrations vs. Time

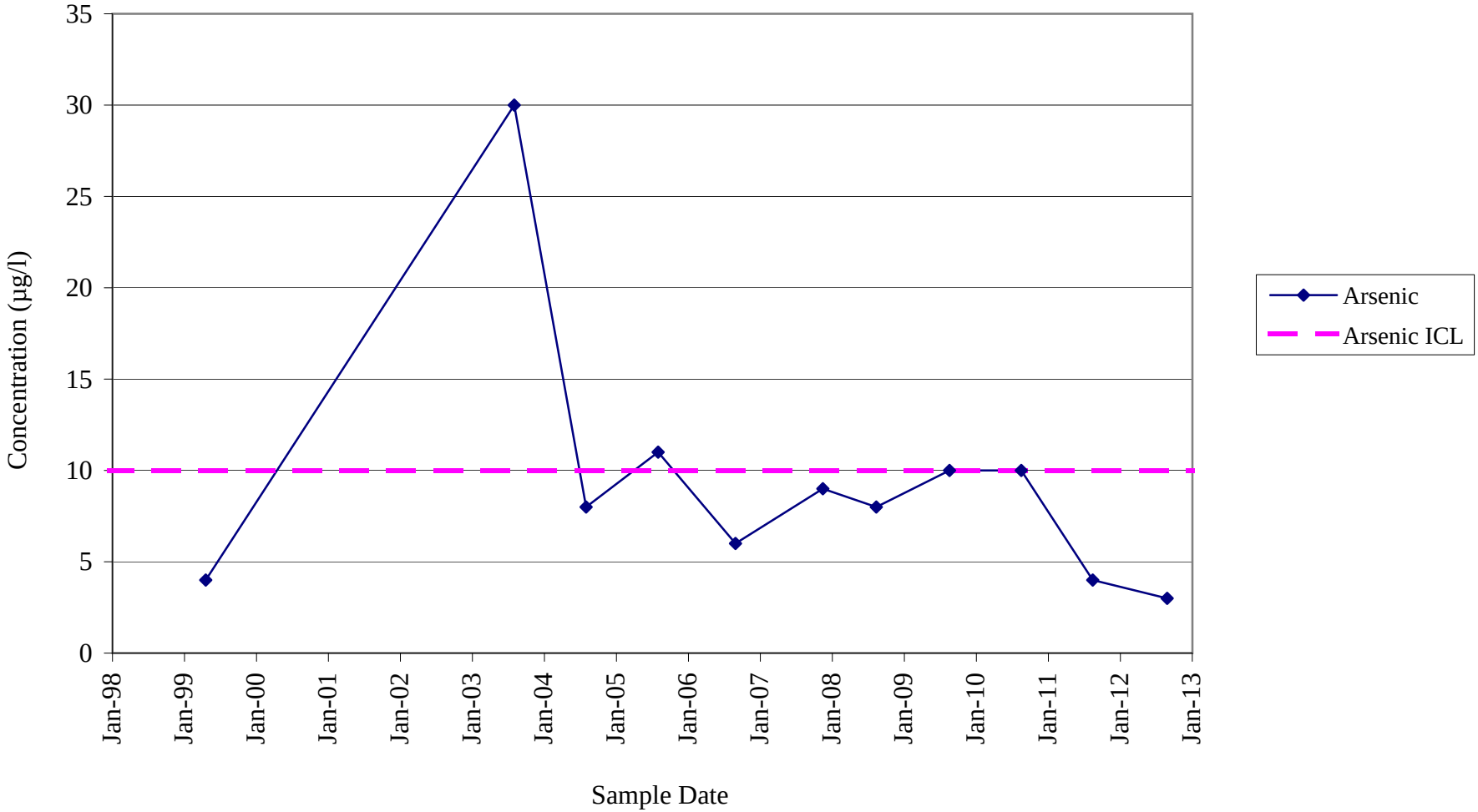
Coakley Landfill, North Hampton, NH



FPC-11B

Arsenic Concentrations vs. Time

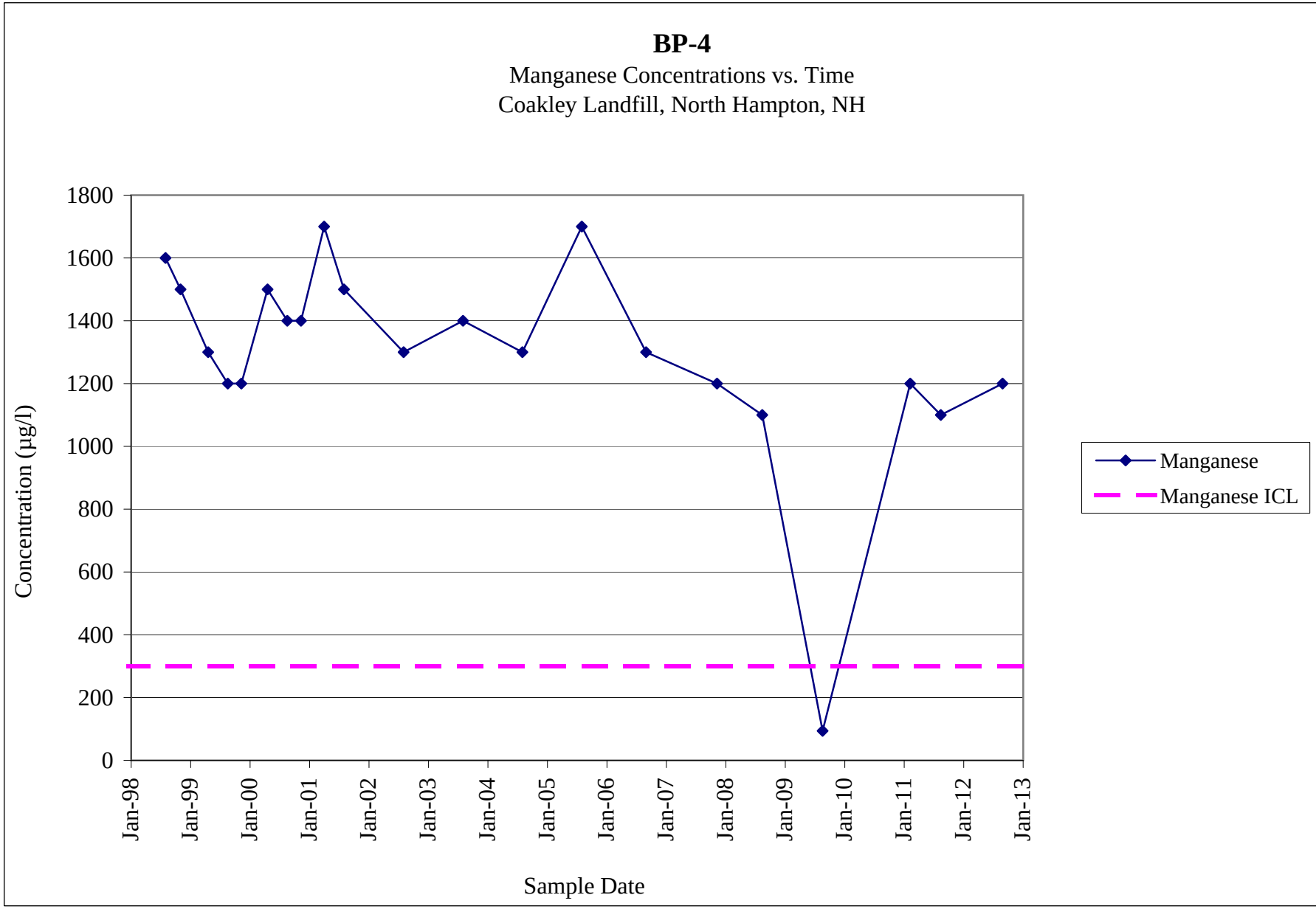
Coakley Landfill, North Hampton, NH

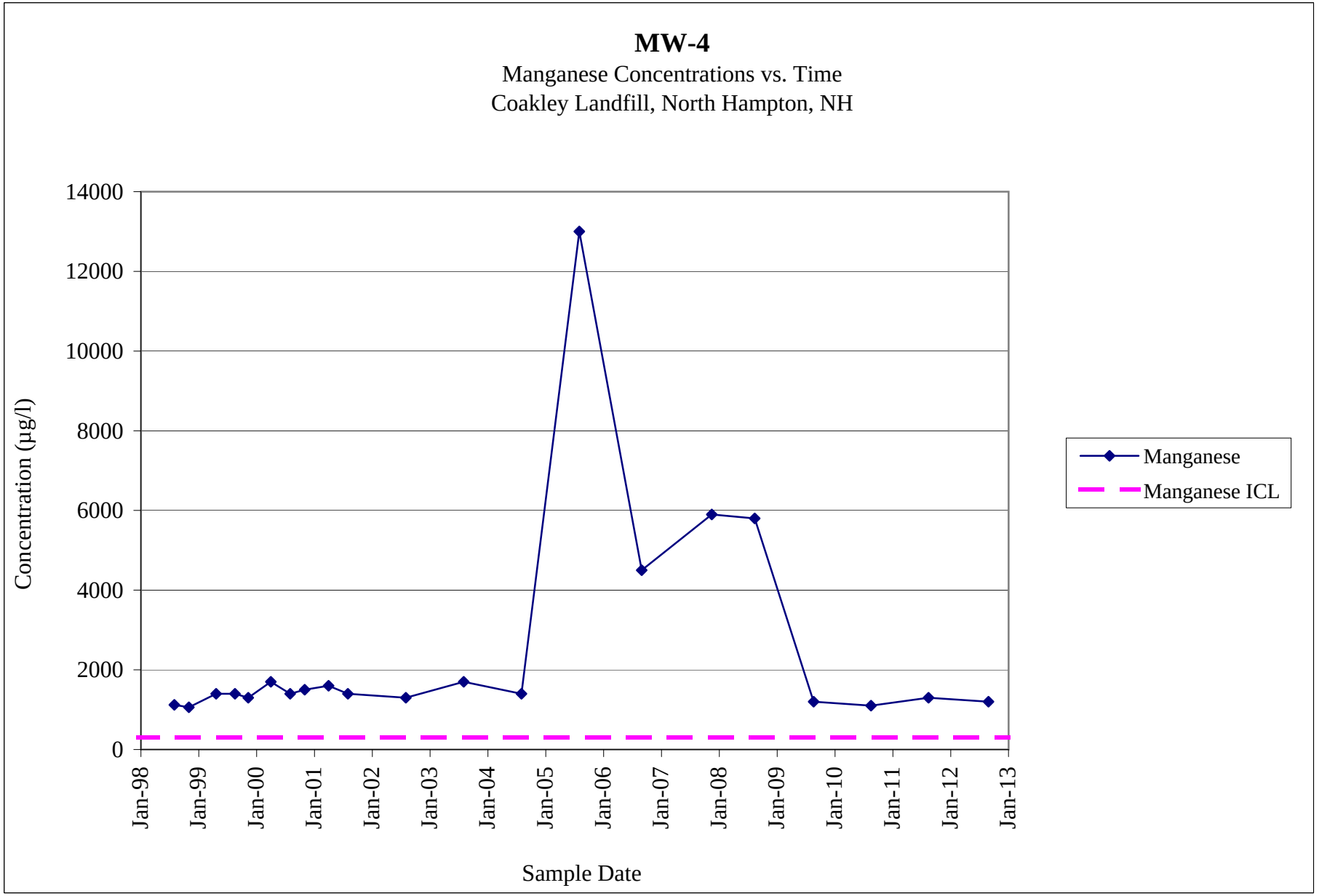


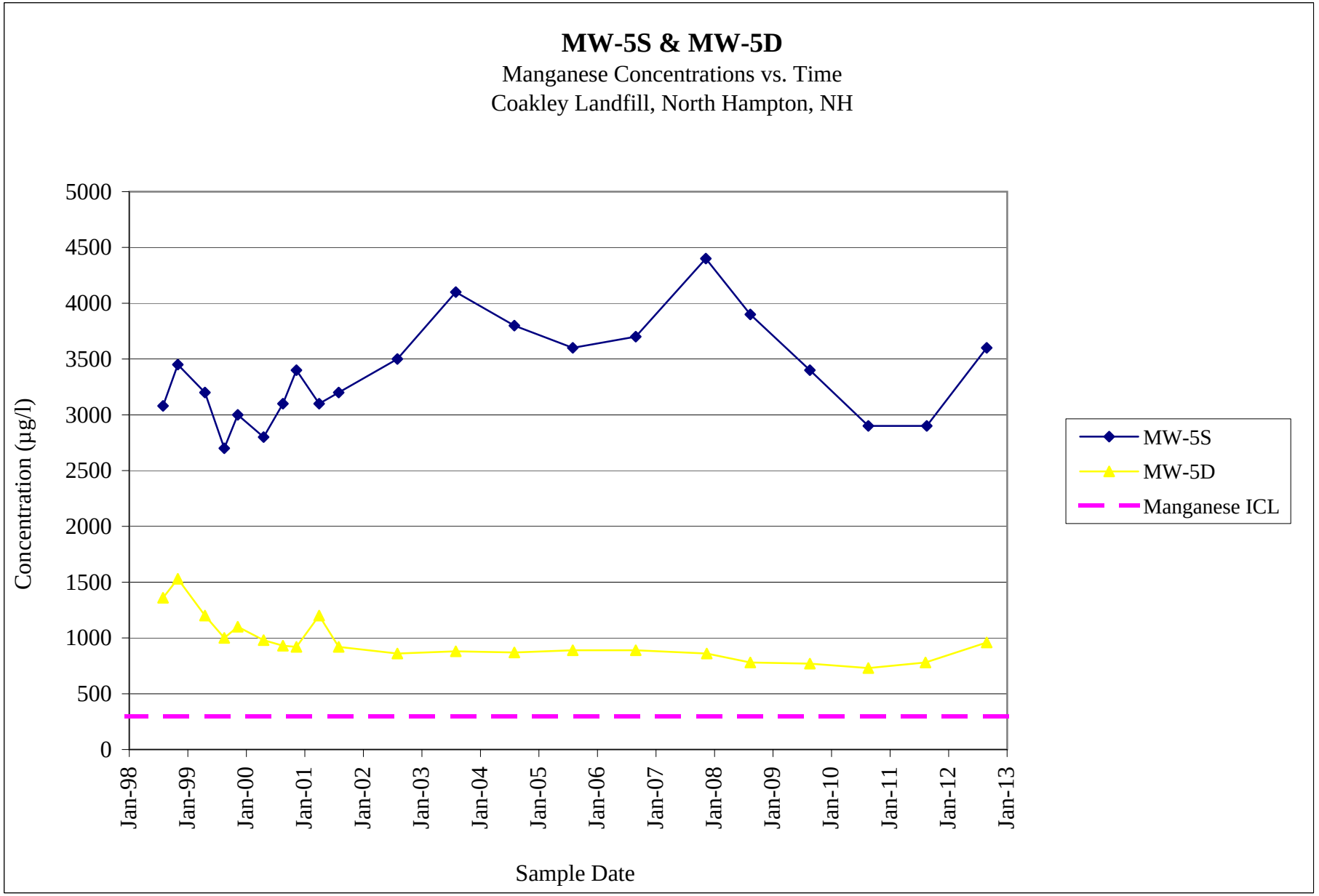
BP-4

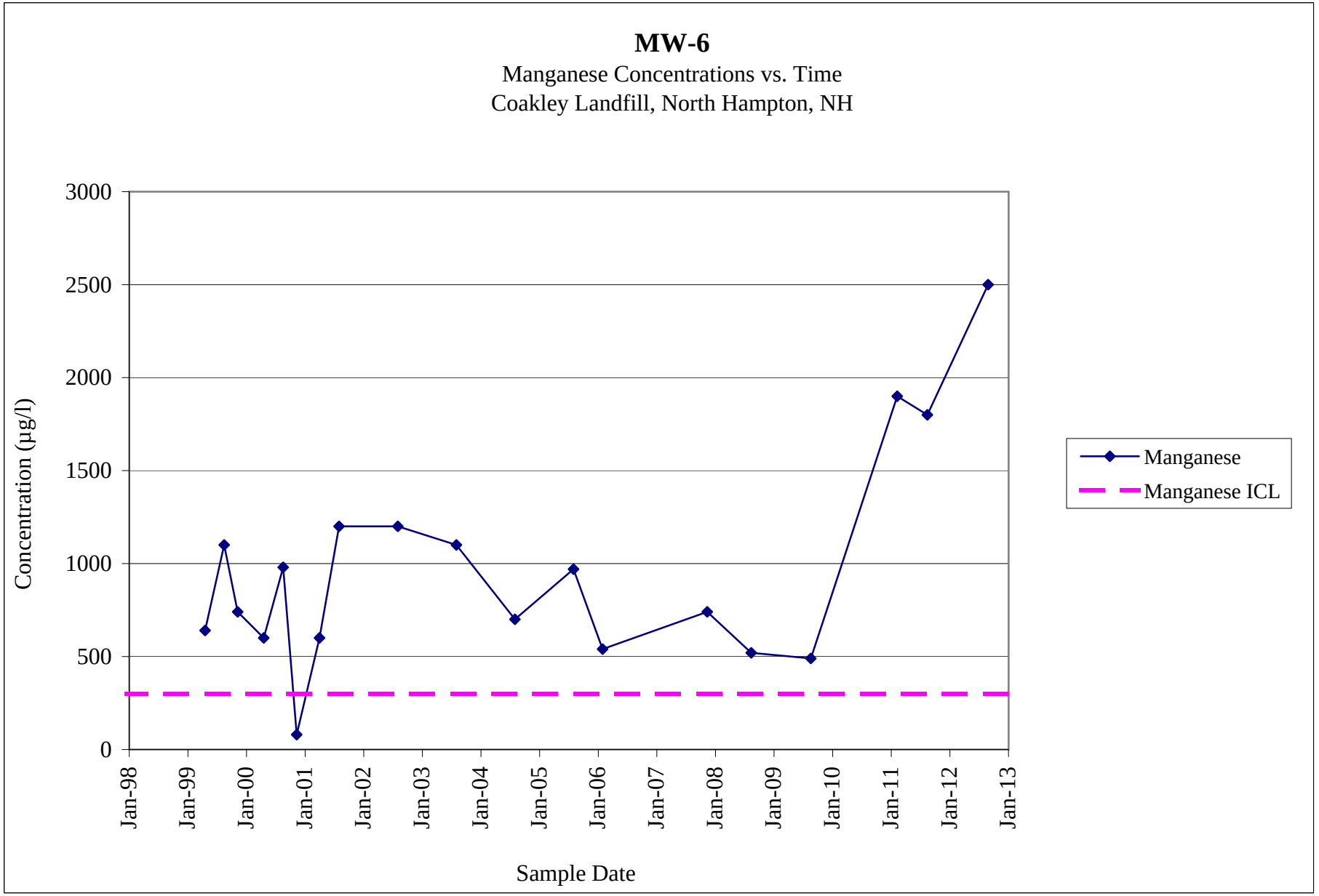
Manganese Concentrations vs. Time

Coakley Landfill, North Hampton, NH




MW-4
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
14000
12000
10000
8000
6000
4000
2000
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Manganese
Manganese ICL

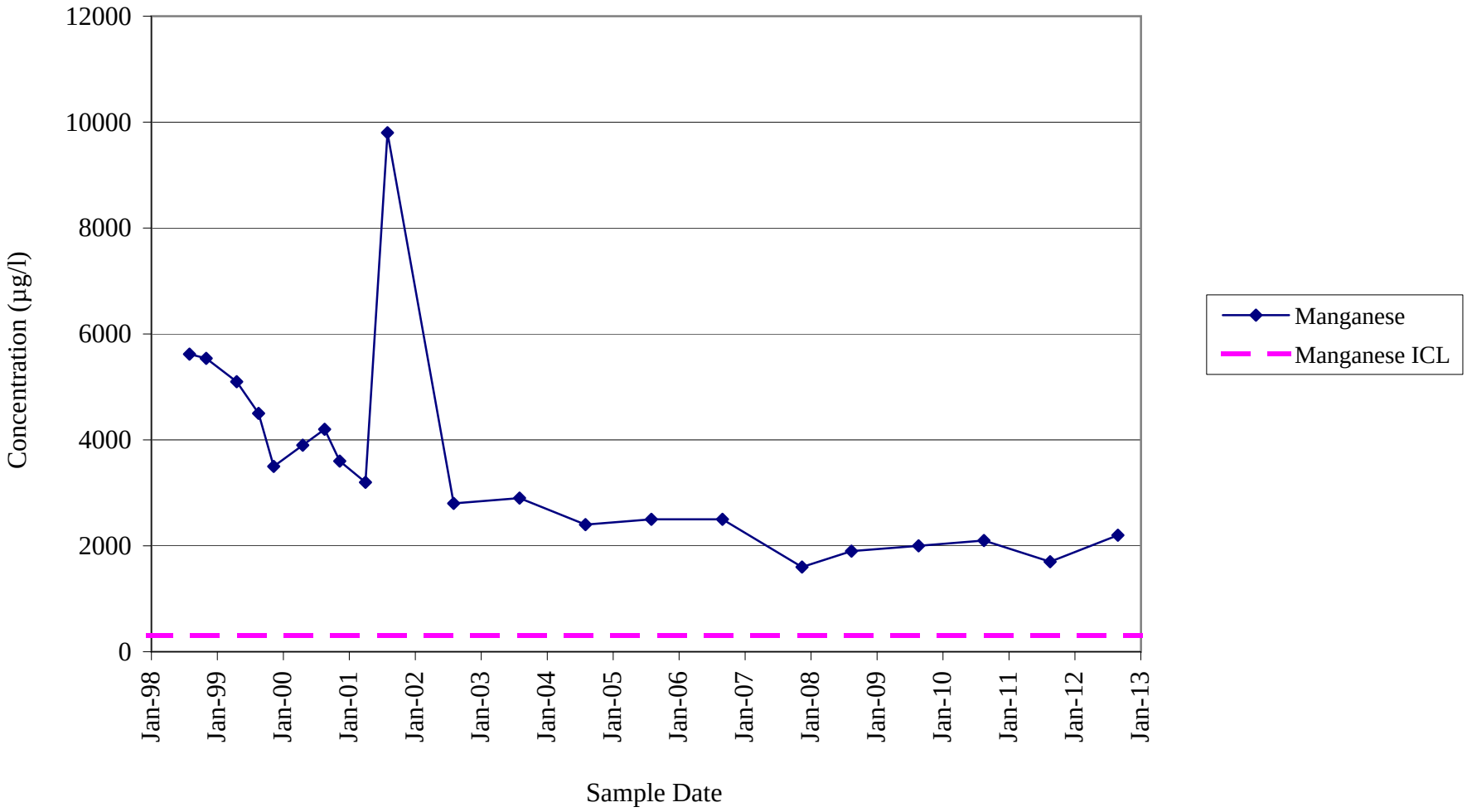

MW-5S & MW-5D
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
MW-5S
MW-5D
Manganese ICL

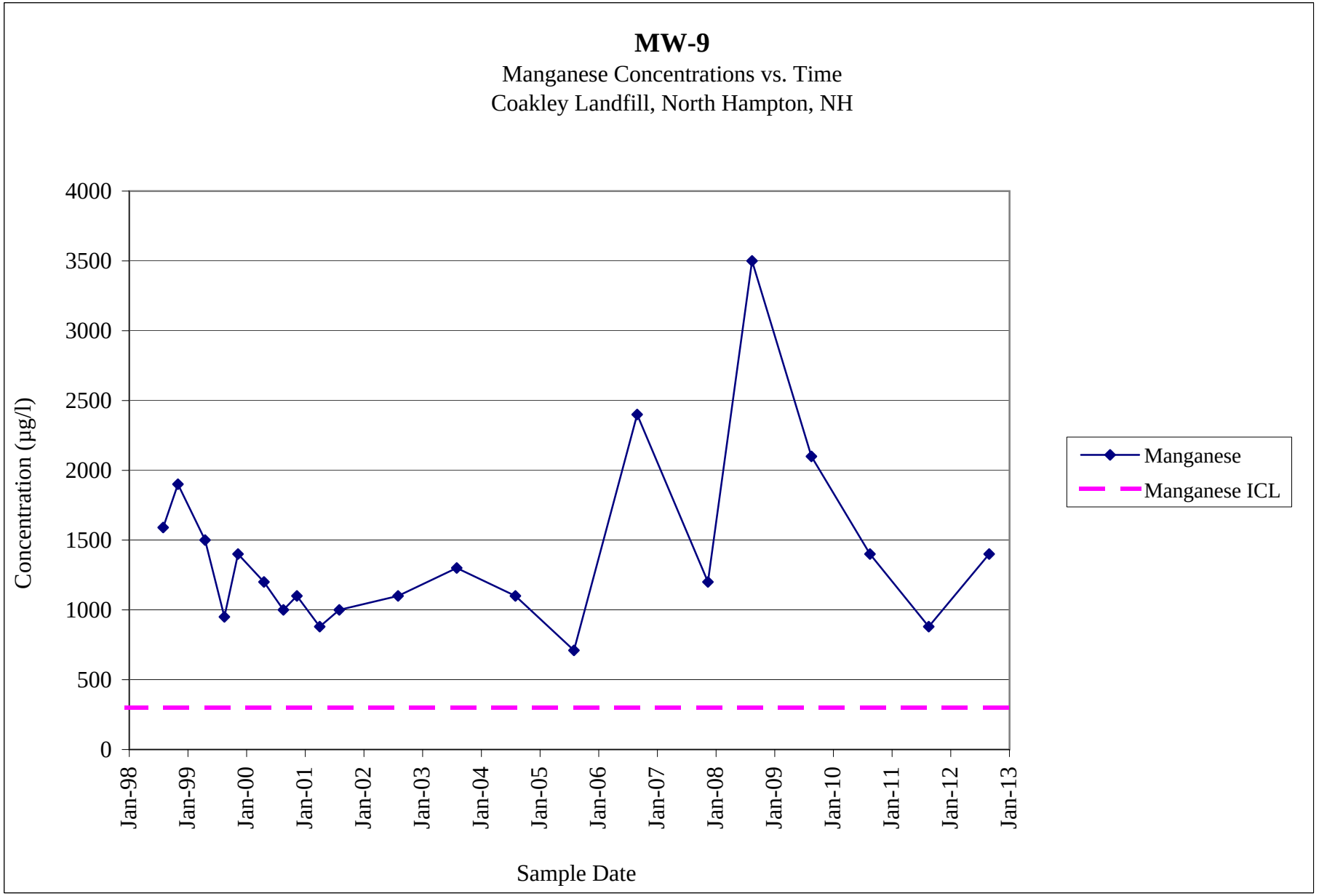

MW-6
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
3000
2500
2000
1500
1000
500
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Manganese
Manganese ICL

MW-8

Manganese Concentrations vs. Time

Coakley Landfill, North Hampton, NH

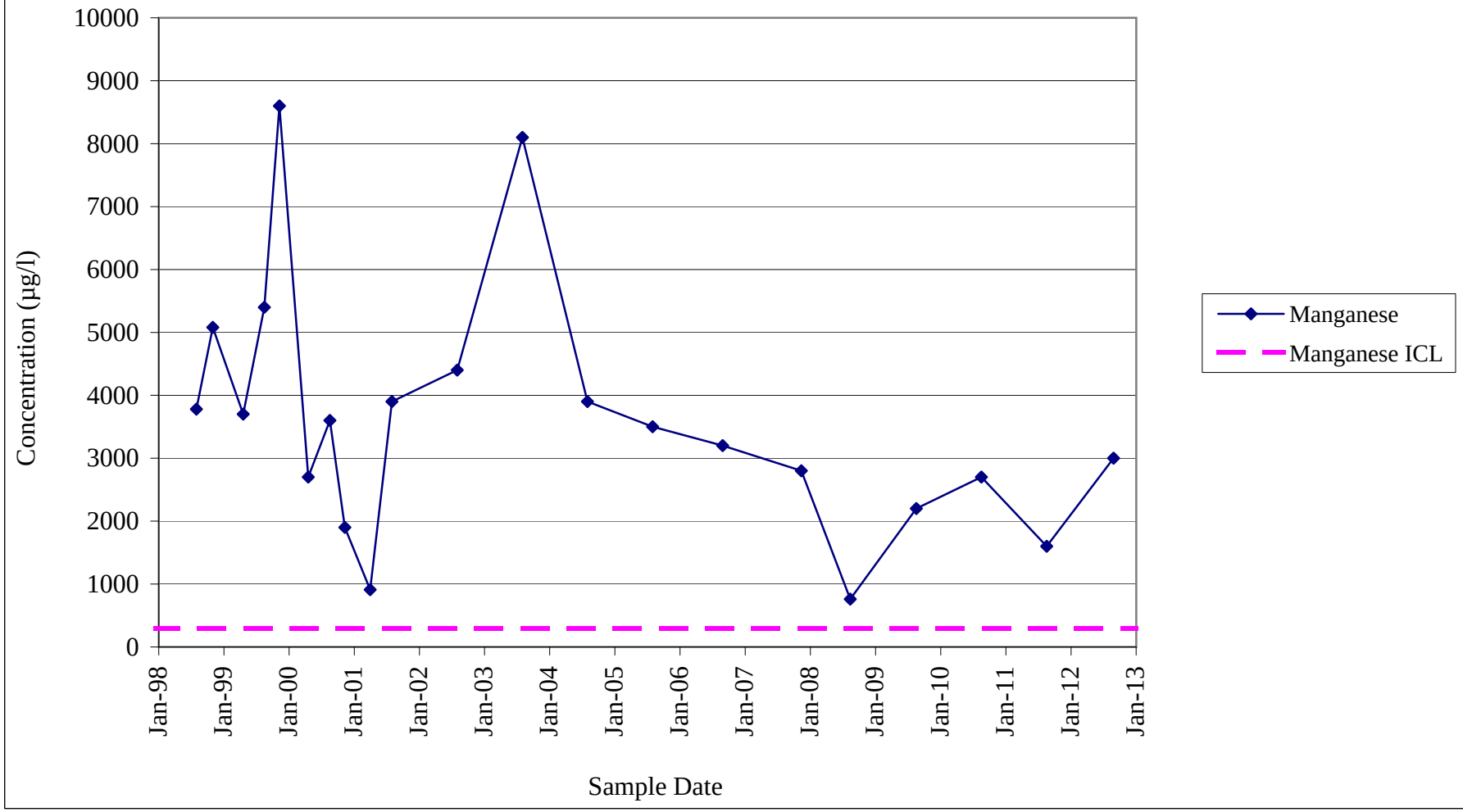



MW-9
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
4000
3500
3000
2500
2000
1500
1000
500
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Manganese
Manganese ICL

MW-10

Manganese Concentrations vs. Time

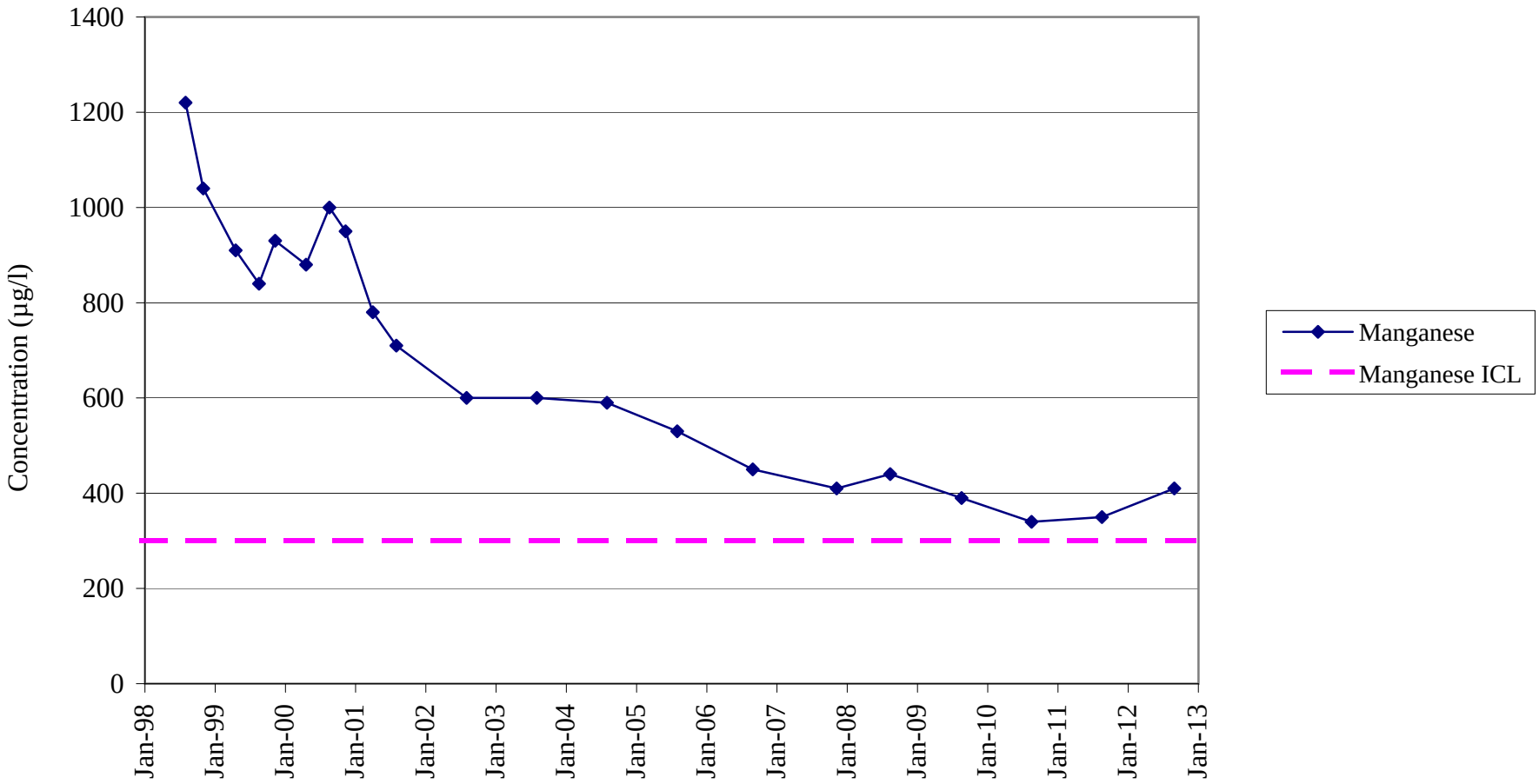
Coakley Landfill, North Hampton, NH

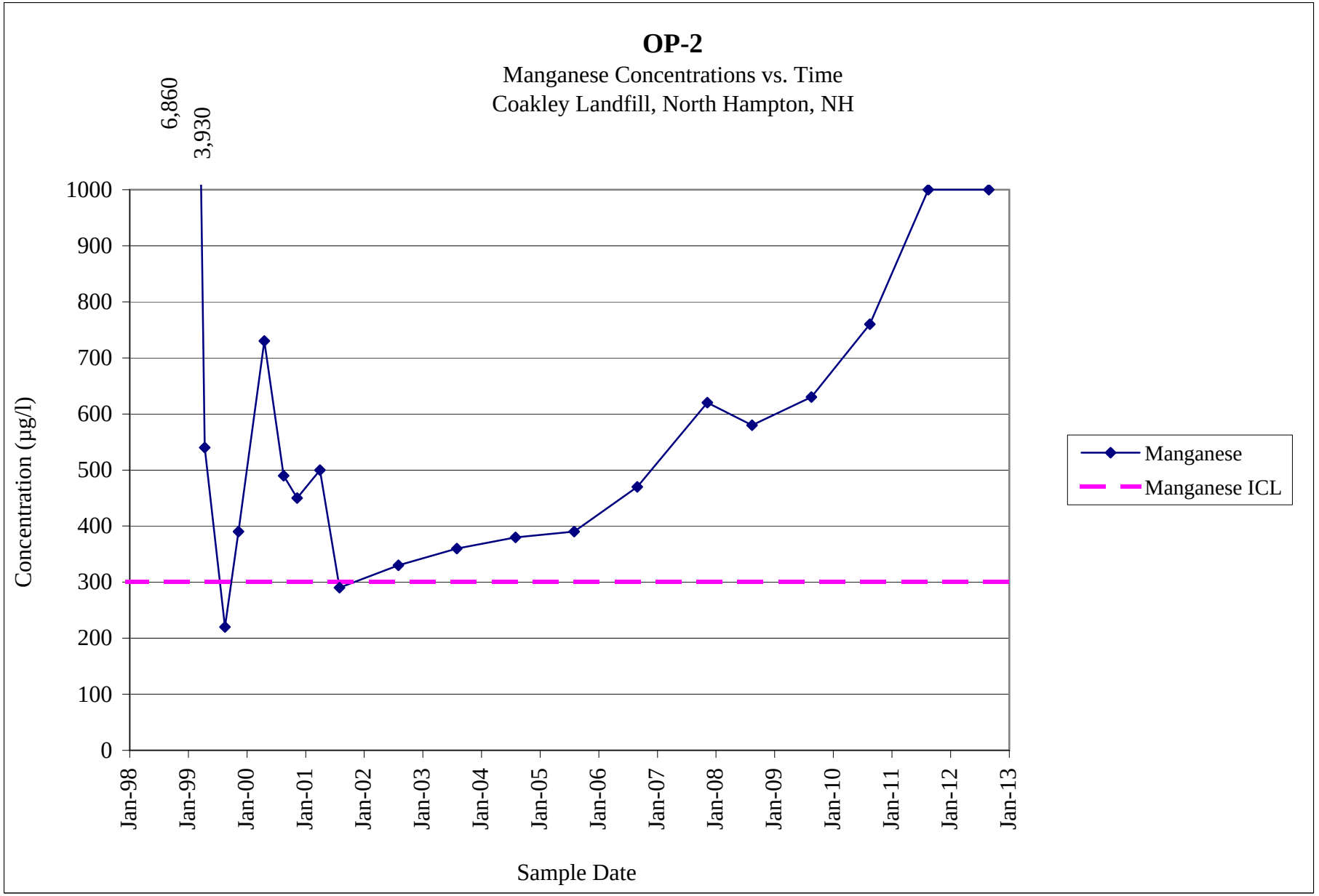


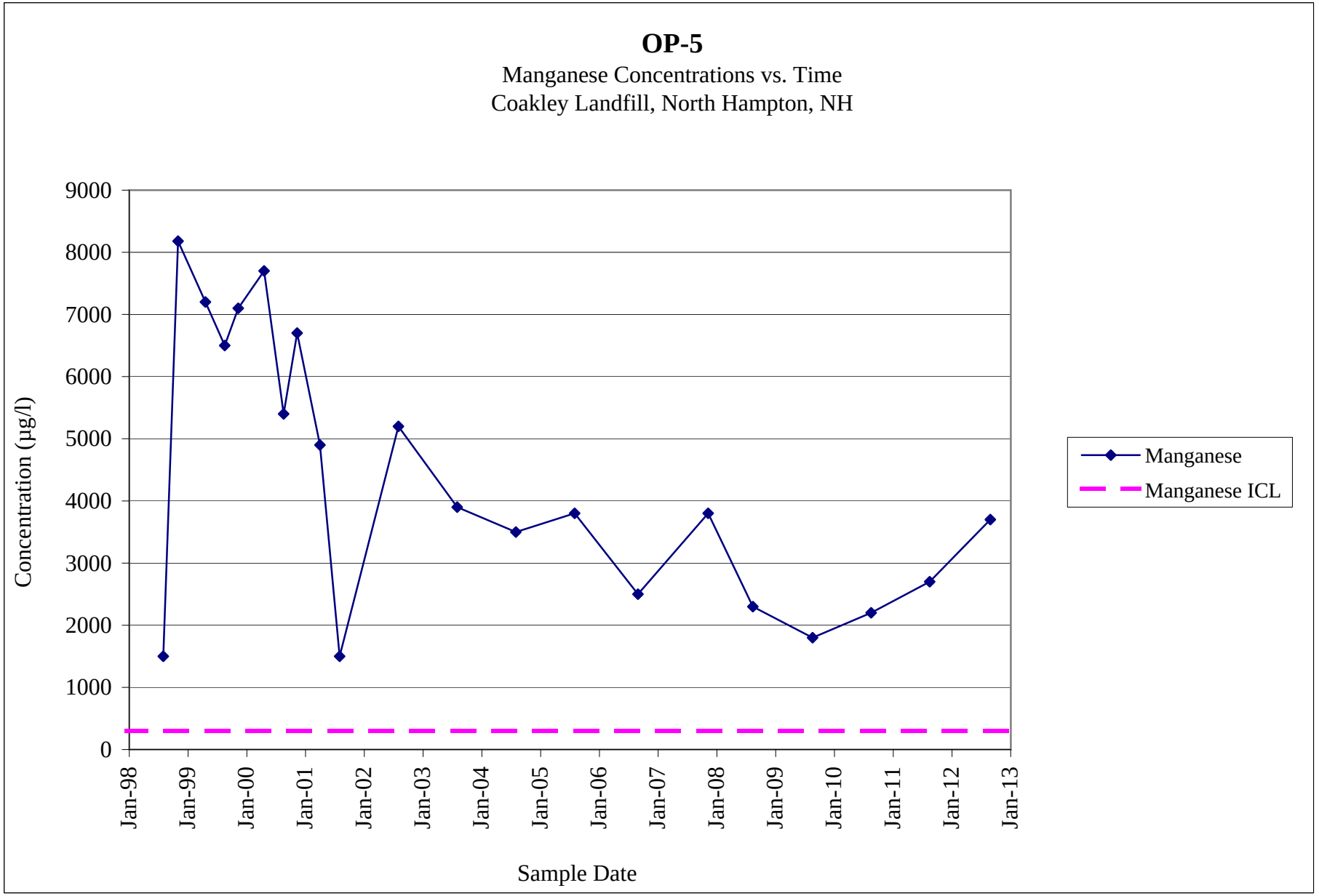
MW-11

Manganese Concentrations vs. Time

Coakley Landfill, North Hampton, NH



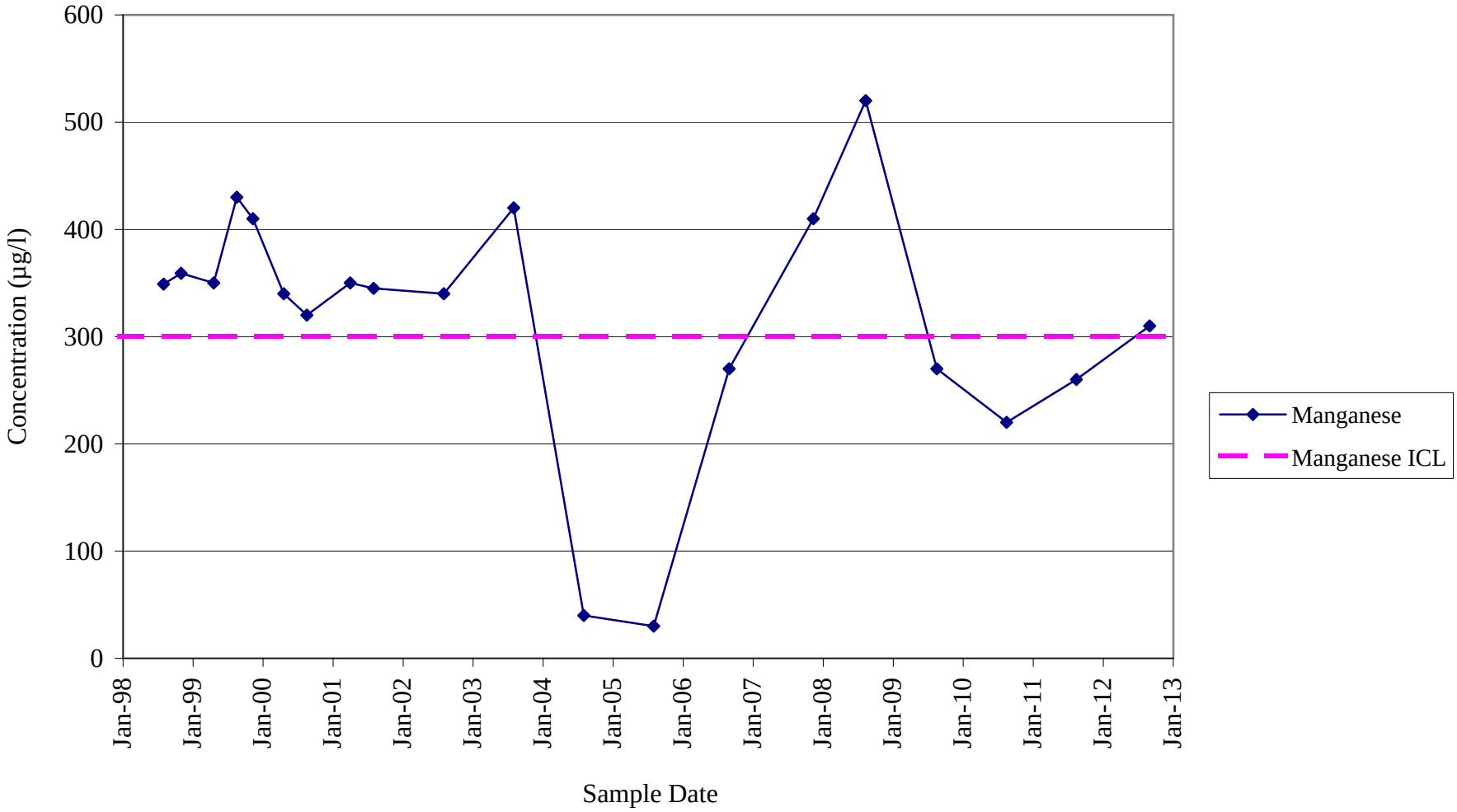

OP-2
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
6,860
3,930
Concentration (µg/l)
1000
900
800
700
600
500
400
300
200
100
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Manganese
Manganese ICL


OP-5
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Manganese
Manganese ICL

FPC-9A

Manganese Concentrations vs. Time

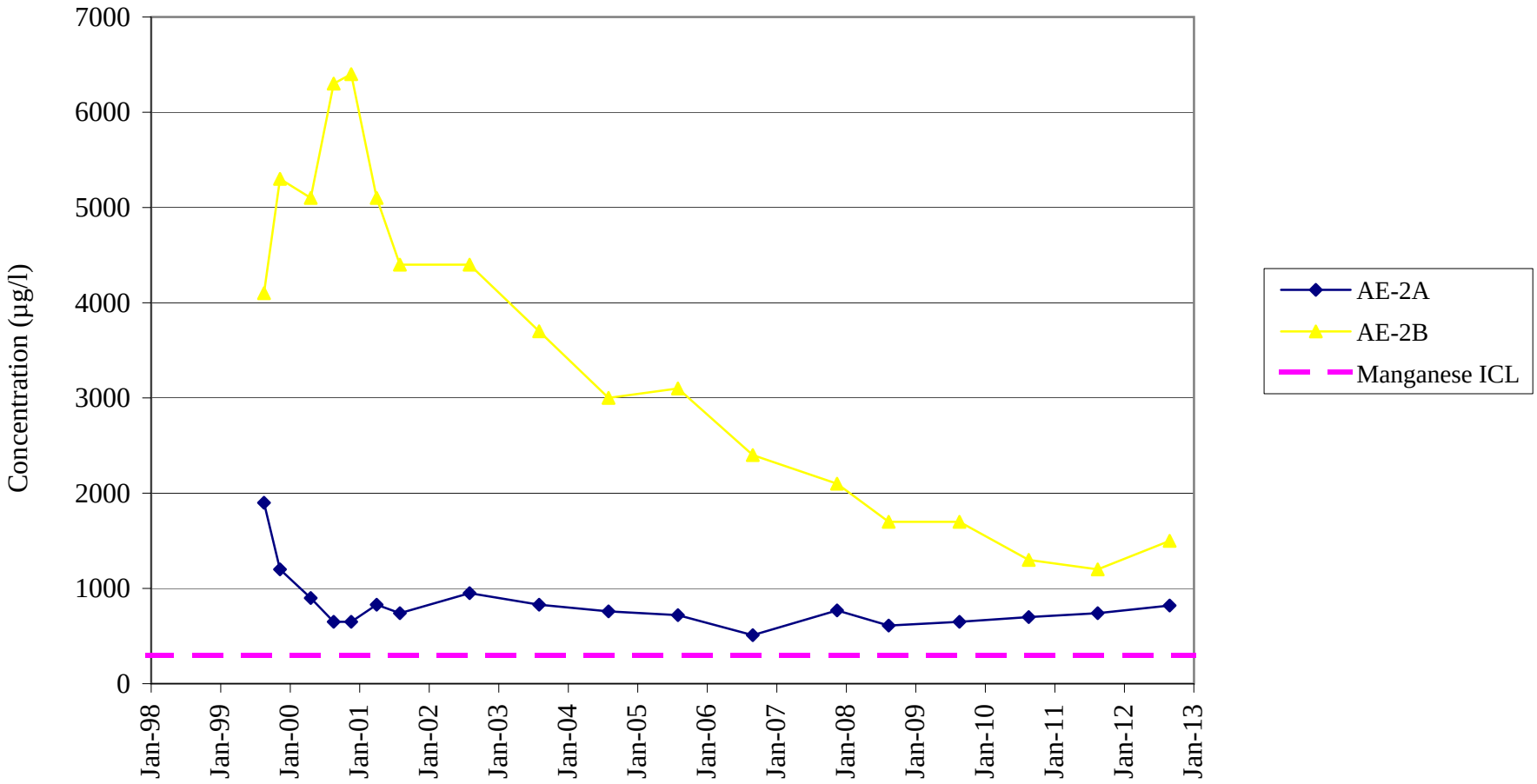
Coakley Landfill, North Hampton, NH

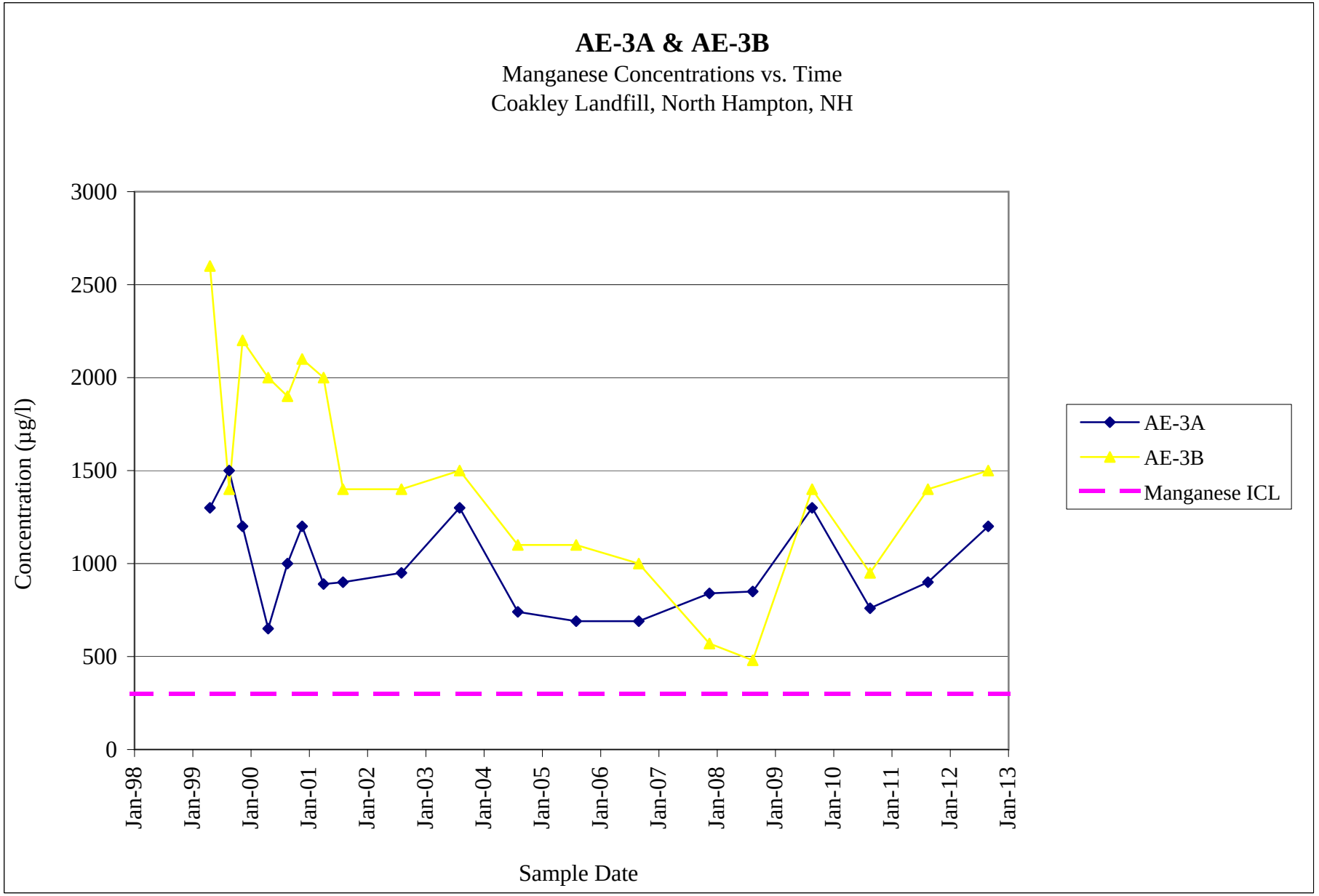


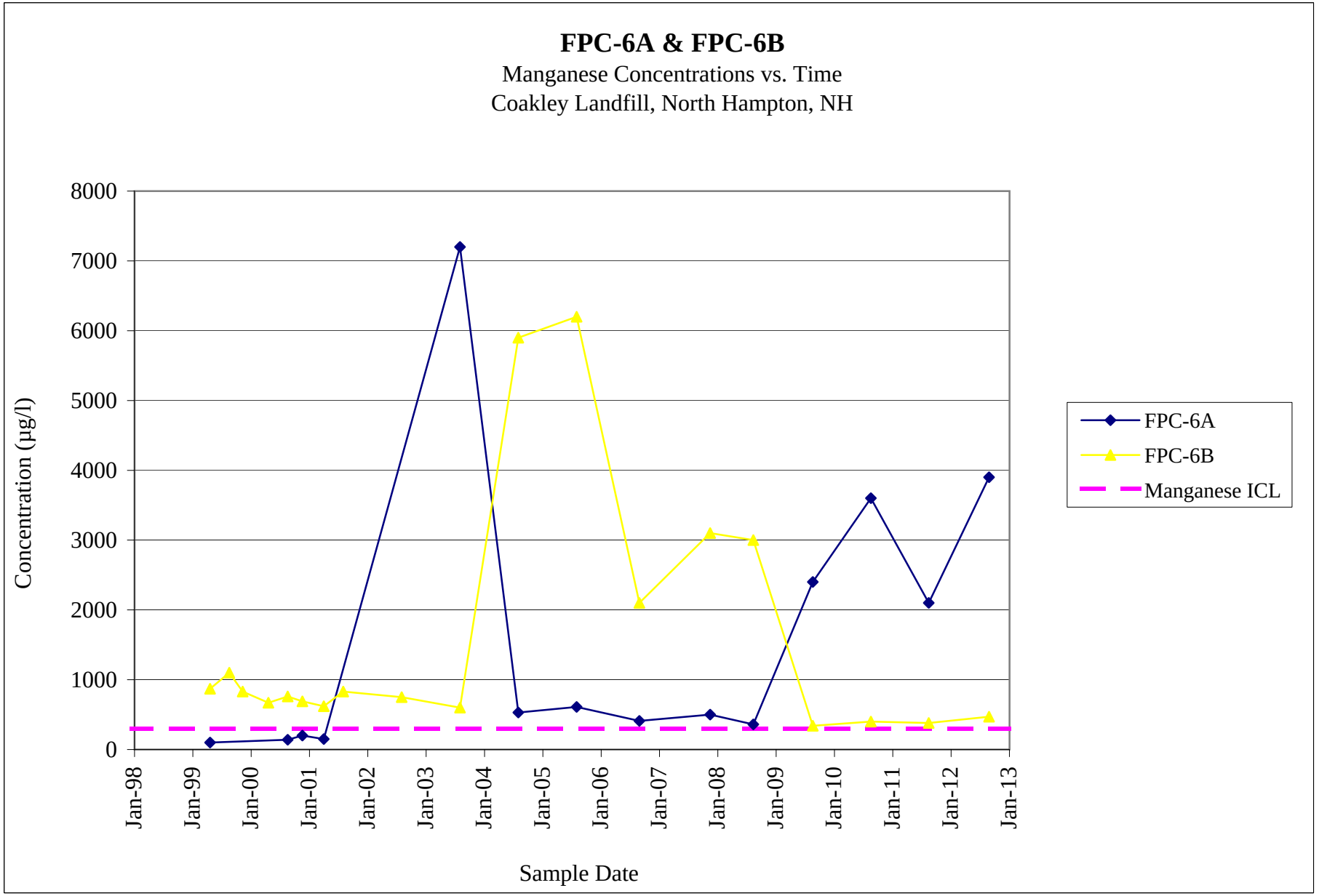
AE-2A & AE-2B

Manganese Concentrations vs. Time

Coakley Landfill, North Hampton, NH



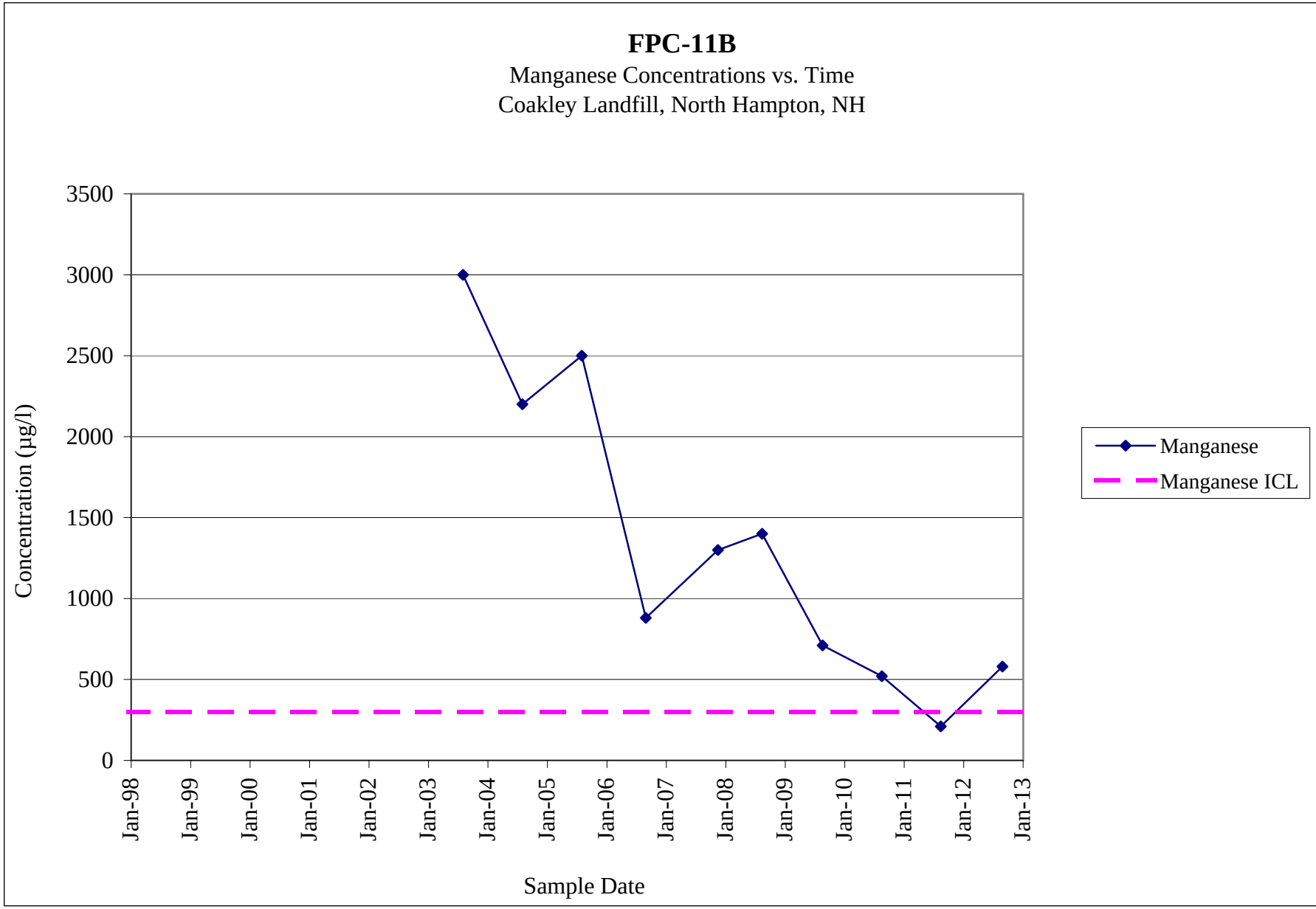

AE-3A & AE-3B
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
3000
2500
2000
1500
1000
500
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
AE-3A
AE-3B
Manganese ICL


FPC-6A & FPC-6B
Manganese Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
FPC-6A
FPC-6B
Manganese ICL

FPC-11B

Manganese Concentrations vs. Time

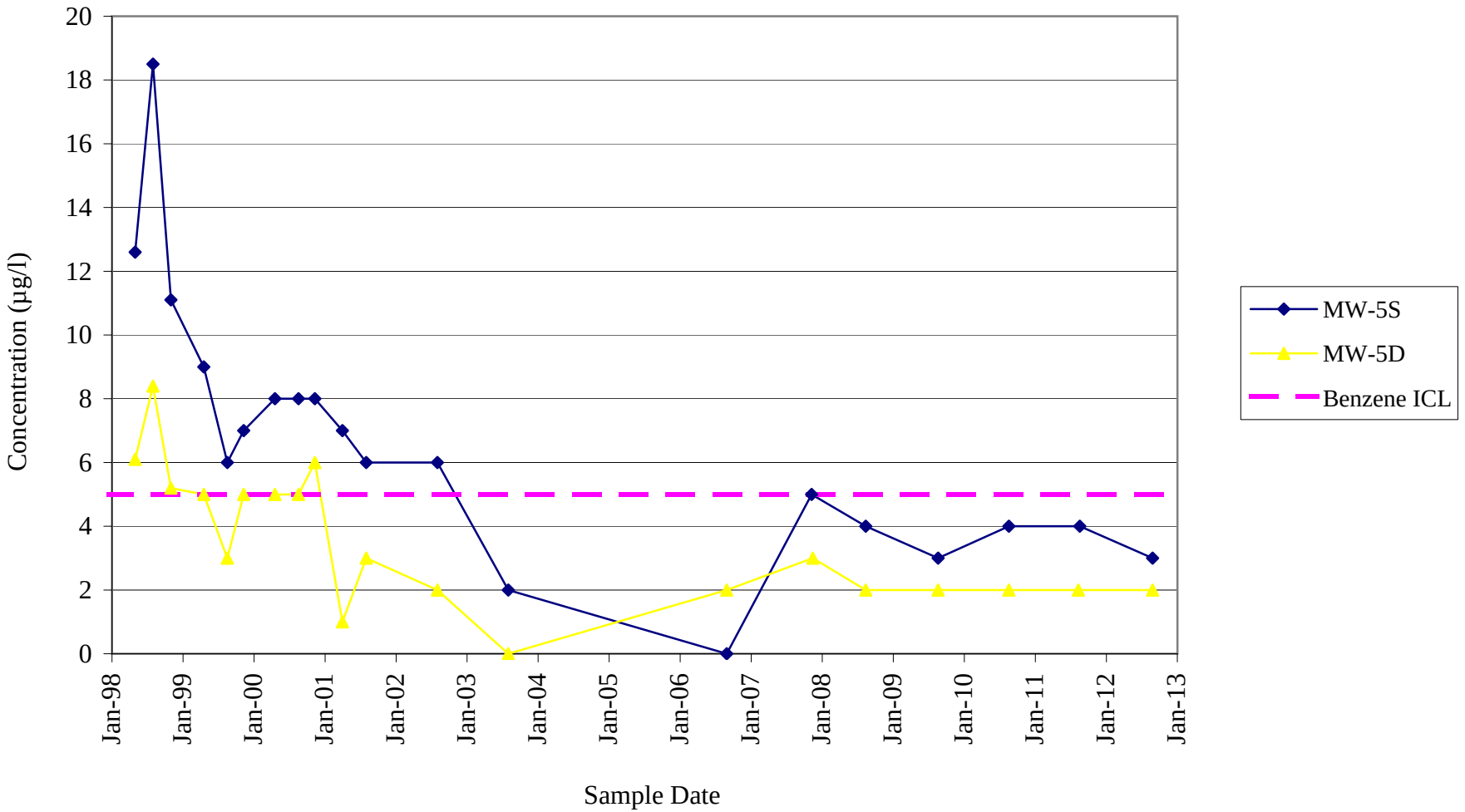
Coakley Landfill, North Hampton, NH

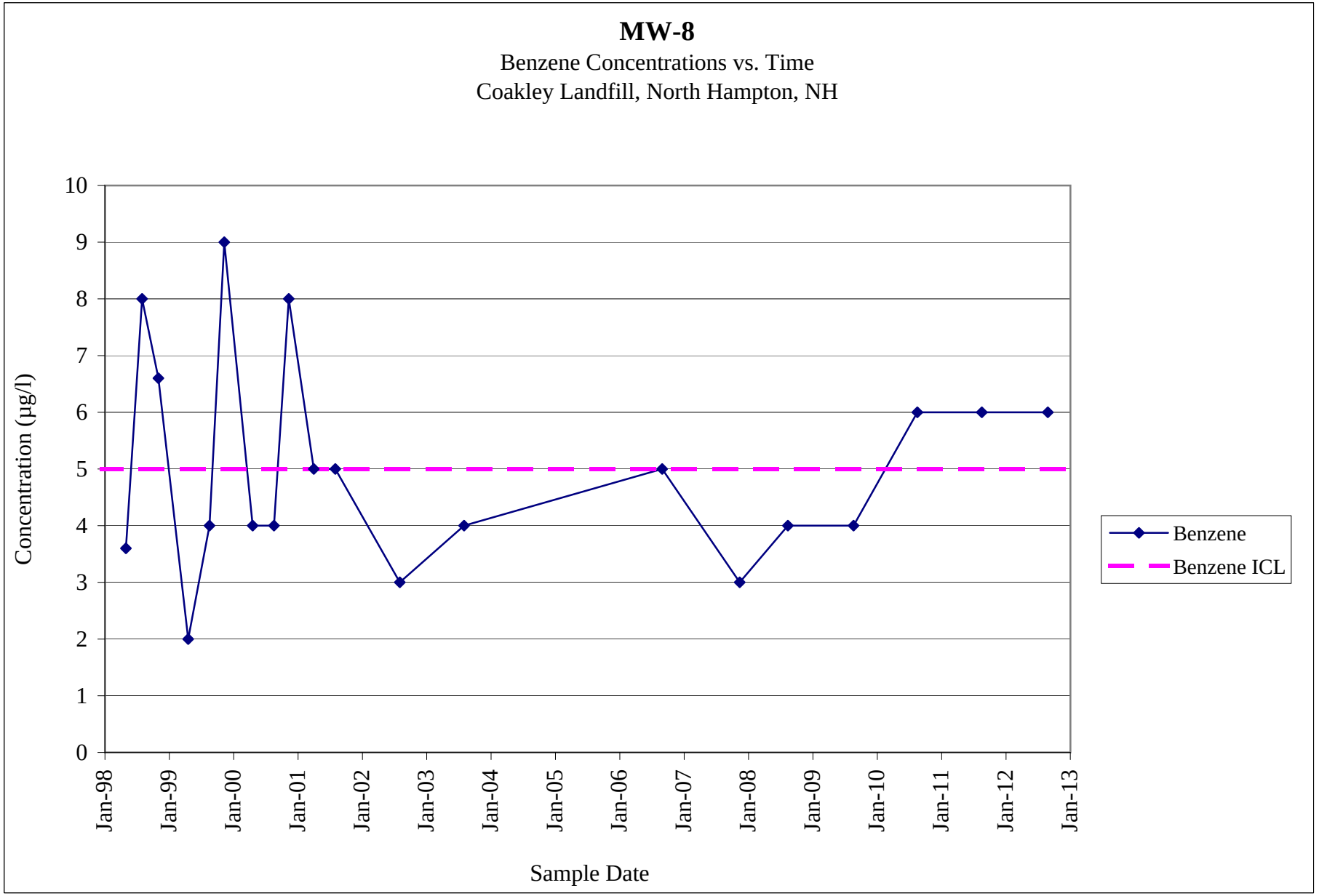


MW-5S & MW-5D

Benzene Concentrations vs. Time

Coakley Landfill, North Hampton, NH

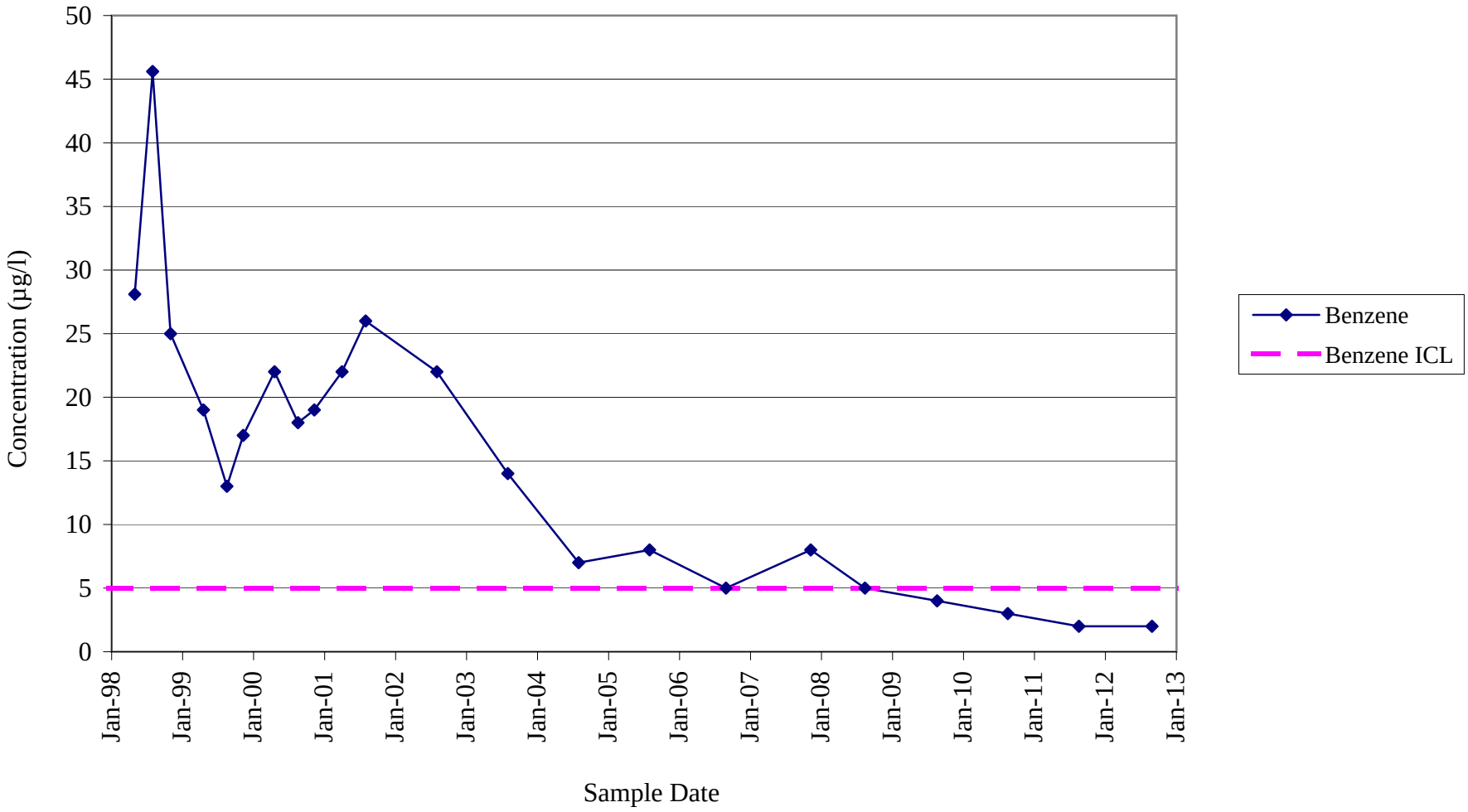


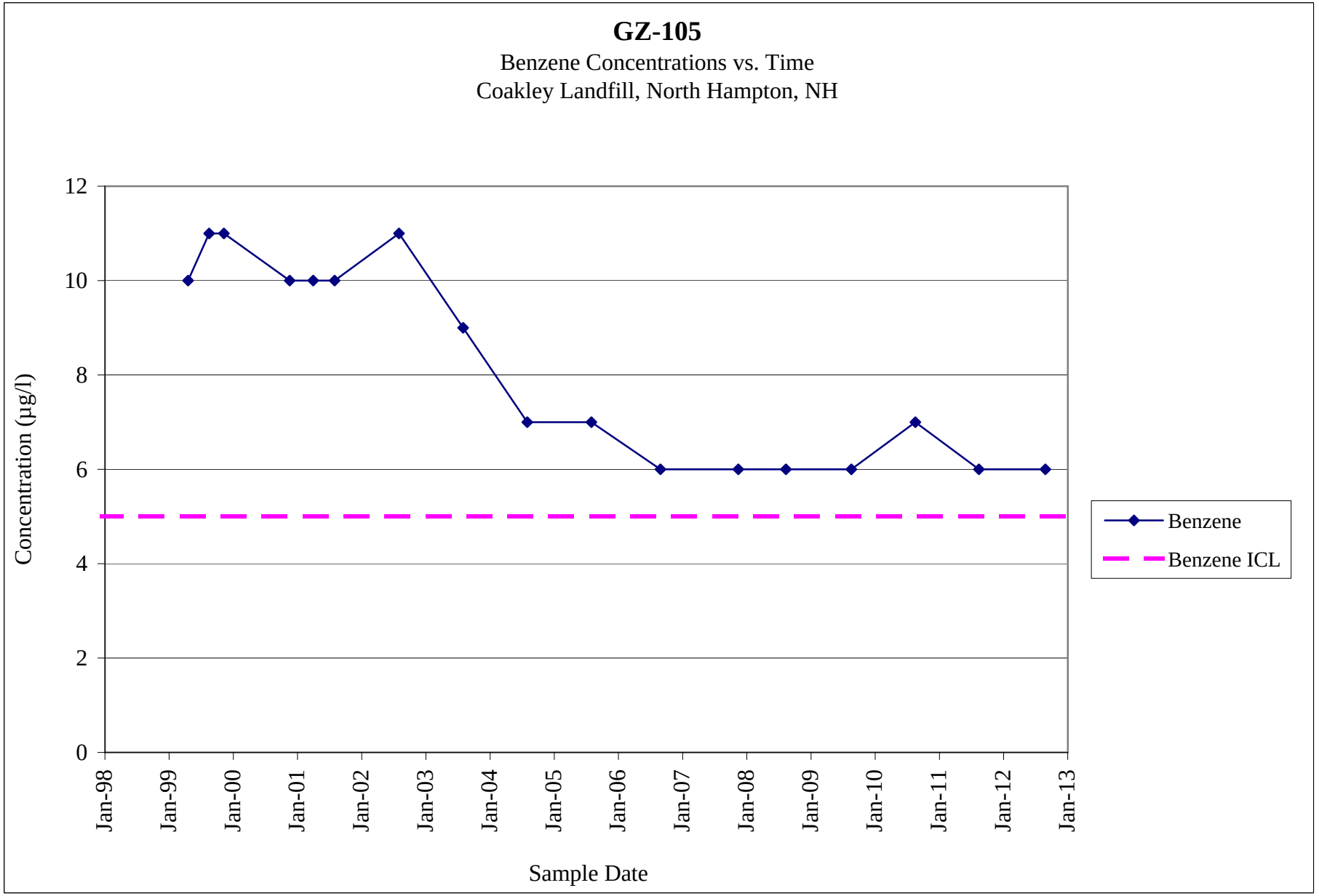

MW-8
Benzene Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
10
9
8
7
6
5
4
3
2
1
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Benzene
Benzene ICL

MW-11

Benzene Concentrations vs. Time

Coakley Landfill, North Hampton, NH




GZ-105
Benzene Concentrations vs. Time
Coakley Landfill, North Hampton, NH
Concentration (µg/l)
12
10
8
6
4
2
0
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Sample Date
Benzene
Benzene ICL

MANN-KENDALL DATA EVALUATION SUMMARY

	Arsenic		Manganese		Benzene	
Well	Trend	Confidence	Trend	Confidence	Trend	Confidence
BP-4	Decreasing	85	Decreasing	97.5		
MW-4	Increasing	90	No Trend	Not Stable		
MW-5S	Decreasing	85	Increasing	95	Decreasing	99.5
MW-5D	No Trend	Stable	Decreasing	99.5	Decreasing	99.5
MW-6			Increasing	75		
MW-8	Increasing	95	Decreasing	99.5	No Trend	Stable
MW-9	No Trend	Stable	No Trend	Stable		
MW-10	No Trend	Stable	Decreasing	99		
MW-11	Decreasing	99	Decreasing	99.5	Decreasing	99.5
OP-2	Decreasing	90	Increasing	95		
OP-5	Decreasing	99.5	Decreasing	99.5		
AE-1A	Increasing	99.5				
AE-2A	Decreasing	99.5	Decreasing	95		
AE-2B	Increasing	99.5	Decreasing	99.5		
AE-3A	No Trend	Stable	Decreasing	85		
AE-3B	Decreasing	95	Decreasing	99.5		
FPC-5A	Increasing	99.5				
FPC-5B	Increasing	90				
FPC-6A			Increasing	99.5		
FPC-6B			Decreasing	85		
FPC-9A	Decreasing	99	Decreasing	95		
FPC-11B	Decreasing	80	Decreasing	99.5		
GZ-105					Decreasing	99.5

Shaded cells are for bedrock wells

Summary

Arsenic		Manganese		Benzene	
Decreasing	9	Decreasing	13	Decreasing	4
Increasing	6	Increasing	4	Increasing	0
No Trend	4	No Trend	2	No Trend	1

SECTION 5

SITE:	Coakley Landfill (P2081)	
CLIENT:	Provan & Lorber Contoocook, New Hampshire	
LABORATORY:	Eastern Analytical, Inc. (Concord, New Hampshire) Work Order: 113593	
EVENT:	Groundwater Sampling–August 2012 (Part 1 of 3)	
SAMPLES(1):	9 groundwater samples, 1 field duplicate, 1 field blank, 1 equipment rinsate blank, 1 field MS/MSD, 2 trip blanks	
TESTS/METHODS(1):	Volatile Organics (VOCs)–73 target analytes	8260B
	1,4 Dioxane	8260B SIM
	Total Metals–23 analytes	200.8
	Dissolved Metals–Fe and Mn	200.8

(1) See Table 1 for a complete listing of samples and the tests performed on each.

QAA completed a Tier I validation of the above chemical analysis data in accordance with the USEPA's Region I *Data Validation Functional Guidelines* (Revised December 1996).

The validation was performed using a 'Level C' data package submitted by the laboratory in portable document format (pdf) and Complete SDG File (CSF) Inventory Sheets, which are included as Attachment A.

The validator checked the data package for completeness, assessed the results of Performance Evaluation (PE) samples analyzed with the field samples, and confirmed that all sample tests were performed within the method holding times. The results of the validation are summarized as follows:

Data Completeness: All sample results, QC results, and raw data including all information necessary to perform a Tier III validation as applicable for the analytical methodology is included in the original laboratory data package except as follows:

- The original data package is missing a few items that were provided upon request. The laboratory submitted these items in an addendum, which is included as Attachment B.
- For the GC/MS tests (VOCs and 1,4-Dioxane), the raw mass spectra are not included in the package. The laboratory does not provide spectra for detects for GC/MS since the quantitation report provides the retention time, the target analyte identification, and the Q value, which gives a good indication of how the sample mass spectrum matches the reference spectrum; and thus, no further action was taken.
- For metals, the package is missing a copy of the analysis logbook pages and the ICP-MS tune data for the 9/7/12 analytical run. This information is included in work order 113653 and thus no further action was taken.

Additionally, the validator checked the sample information on the custody record (i.e., the sample ID, date received, date sampled, and sample matrix) against that reported by the laboratory and found no discrepancies.

PE Sample Results: A laboratory control sample (LCS), which is a clean sample matrix spiked with the analytes of interest, was analyzed with every analytical batch (maximum 20 samples of the same matrix). Additionally, a laboratory control sample duplicate (LCSD) was analyzed with every analytical batch for all tests except metals. Results are shown in Table 2.

Holding Time Check: All tests were performed within the holding times specified in the analytical methods.

QAA Validator: Taryn G. Scholz (Name) 11/27/12 (Date)

Attachments:
A Complete SDG File (CSF) Inventory Sheets
B Laboratory Addendum

TABLE 1
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 1 OF 3)

SAMPLES COLLECTED

Lab ID	Sample ID	Date Sampled	Matrix	Tests Performed			
				VOCs	1,4-Dioxane	23 Total Metals	Dissolved Fe/Mn
113593.01	GW-BP-4-0812	8/28/12	Water		X	X	
113593.02	GW-MW-5S-0812(1)	8/27/12	Water	X	X	X	X
113593.03	GW-MW-5S-DUP-0812	8/27/12	Water	X	X	X	X
113593.04	GW-MW-5D-0812	8/27/12	Water	X	X	X	
113593.05	GW-MW-6-0812	8/27/12	Water	X	X	X	X
113593.06	GW-MW-8-0812	8/27/12	Water	X	X	X	
113593.07	GW-MW-10-0812	8/28/12	Water			X	
113593.08	GW-OP-2-0812	8/27/12	Water		X	X	X
113593.09	GW-GZ-123-0812	8/28/12	Water	X		X	X
113593.1	GW-GZ-125-0812	8/28/12	Water	X		X	X
113593.11	GW-MW-5S-FB-0812	8/27/12	Water	X	X	X	X
113593.12	Equipment	8/28/12	Water	X	X	X	X
113593.13	Trip Blank	-	Water	X			
113593.14	Trip Blank	-	Water		X		

1) Field MS/MSD collected at this location.

TABLE 2
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 1 OF 3)

PE SAMPLE RESULTS

Test	Lab Limits	Analysis Date	PE Sample Type	QC Outcome
VOCs 8260B	40-160% or 70-130%(1)	8/30/12	LCS/LCSD	Recoveries within limits for all target analytes
		9/7/12	LCS/LCSD	Recoveries within limits for all target analytes except: 2,2-Dichloropropane 65% (LCS) and 69% (LCSD)
1,4-Dioxane	70-130%	8/29/12	LCS/LCSD	Recoveries within limits for the target analyte
		8/30/12	LCS/LCSD	Recoveries within limits for the target analyte
		8/30/12	LCS/LCSD	Recoveries within limits for the target analyte
Total and Dissolved Metals	85-115%	9/6/12	LCS	Recoveries within limits for all target analytes
		9/7/12	LCS	Recoveries within limits for all target analytes

(1) Laboratory limits are 40-160% for seven of the analytes (i.e., dichlorodifluoromethane, chloromethane, bromomethane, acetone, 2-butanone (MEK), 1,4-dioxane, and 2-hexanone). These analytes are volatile gases, highly water soluble ketones, or unstable analytes and typically show lower performance.

ATTACHMENT A
COMPLETE SDG FILE (CSF) INVENTORY SHEETS

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113593(QAA No. PL09)
SDG NOs. TO FOLLOW: 113653(PL10),113689(PL11)

All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

ITEM	PAGE NUMBER(S)
1. Signed Cover Sheet with NELAC Accreditation	cover
2. SDG Case Narrative	*
3. Sample ID Summary	1
4. Shipping/Receiving Documents	
Airbills (No. of shipments:)	hand delivered
Chain-of-custody records	23-24
Sample tags	NA
Sample log-in sheet (Lab, DC-1)	1
Miscellaneous shipping/receiving records Describe:	NA
5. Internal Lab Sample Transfer Records and Tracking Sheets	
Describe:	NA
6. Other Records	
Percent solids determination log	NA
Telephone communication log	NA
Describe:	NA
7. Comments * Included at the end of each QC report (i.e., blank, spike QC Summary) for each test	

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/19/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113593(QAA No. PL09)
SDG NOs. TO FOLLOW: 113653(PL10),113689(PL11)

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: VOCs
Method: 8260B

	PAGE NUMBER(S)			
Date/Batch:	8/30/12 ms3	9/7/12 ms5		
Samples:	4,5,9,10, 11,12,13	2(MS/D),3,6		
1. QC Summary				
Deuterated Monitoring Compound (Form II)	121	166		
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample: 2)	NA	10-11		
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	6-7	8-9		
Method Blank (Form IV)	6-7	8-9		
GC/MS Instrument Performance Tune (Form V)	122	167		
Internal Standard Area and RT Form VIII)	121	166		
2. Sample Data				
TCL Results (Form I) (no. analytes: 73)	2-5	2-3		
Tentatively Identified Compounds (Form I TIC)	NA	NA		
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	133-158*	178-179, 186-189*		
3. Standards Data				
Initial Calibration Summary (Form VI) (8/9 ms3, 8/6 ms5)	26-31**	75-80		
Quantitation reports and RIC for all standards	32-74	81-118, addendum 1-3		
Continuing Calibration Summary (Form VII)	123-124	171-172		
Quantitation reports and RIC for all standards	125-127	173-175		
4. Raw QC Data				
Tune	122	167		
Method Blank	131-132	176-177		
Lab Control Sample/Lab Control Sample Dup	159-164	190-195		
Matrix Spike/Matrix Spike Dup	NA	180-185		
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	120	165		
Internal sample/extract transfer custody records	not incl	not incl		
Screening records	NA	NA		
Other instrument output, including strip charts from screening activities Describe:	NA	NA		

6. Comments

LCS/LCSD (lab limits) – %R < LCL for 2,2-dichloropropane (65%/69%) for 9/7/12

*Raw spectra not included, quantitation reports include Q values

** Analysis run log on pg. 26 shows ‘VOAMS4’ but actually VOAMS3 as shown on quant reports

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/19/12 (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113593(QAA No. PL09)
SDG NOs. TO FOLLOW: 113653(PL10),113689(PL11)

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: 1,4-Dioxane
Method: 8260B SIM

	PAGE NUMBER(S)			
Date/Batch:	8/29/12	8/30/12	8/30/12	
Samples:	1,3,8, 11,12,14	4,5,6	2(MS/D)	
1. QC Summary				
Deuterated Monitoring Compound (Form II)	220	221	272	
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample: 2)	NA	NA	15	
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	14	16	15	
Method Blank (Form IV)	14	16	15	
GC/MS Instrument Performance Tune (Form V)	222	247	273	
Internal Standard Area and RT Form VIII)	220	221	272	
2. Sample Data				
TCL Results (Form I) (no. analytes: 1)	12-13	12	12	
Tentatively Identified Compounds (Form I TIC)	NA	NA	NA	
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	233-246*	257-270*	287-288*	
3. Standards Data				
Initial Calibration Summary (Form VI) (5/24/12 ms2)	197-199	197-199	197-199	
Quantitation reports and RIC for all standards	200-217, addendum 4-5	200-217, addendum 4-5	200-217, addendum 4-5	
Continuing Calibration Summary (Form VII)	223	248	274	
Quantitation reports and RIC for all standards	224-226	249-250	275-276	
4. Raw QC Data				
Tune	222	247	273	
Method Blank	231-232	255-256	285-286	
Lab Control Sample/Lab Control Sample Dup	227-230	251-254	281-284	
Matrix Spike/Matrix Spike Dup	NA	NA	277-280	
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	219	219	271	
Internal sample/extract transfer custody records	not incl	not incl	not incl	
Screening records	NA	NA	NA	
Other instrument output, including strip charts from screening activities Describe:	NA	NA	NA	

6. Comments
LCS/LCSD (lab limits) – P/P

*Raw spectra not included, quantitation reports include Q values

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/19/12 (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113593(QAA No. PL09)
SDG NOs. TO FOLLOW: 113653(PL10),113689(PL11)

INDUCTIVELY COUPLED PLASMA/ MASS SPECTROMETRY (ICP-MS)
Parameter: 23 Total, Fe/Mn Dissolved
Method: 200.8

	PAGE NUMBER(S)			
Date/Batch:	9/6/12	9/7/12 (Ca,Mg,Na)		
Samples:	1-12* 2MS/D	1-12 2MS/D		
1. Cover Sheet	not reqd	not reqd		
2. Sample Data Sheet (Form I)	17-19	17-19		
3. Initial/Continuing Calibration Verification (Form IIA)	301-310	409-415		
4. CRQL Standard (From IIB)	not reqd	not reqd		
5. Blanks (Form III)	20, 22(diss) 296-300	20, 402-408		
6. Interference Check Sample (Form IVB)	311	416		
7. Matrix Spike Sample (Form VA) (Parent Sample: 2)	21, 22(diss) as MSD	21 with MSD		
8. Post-Digestion Spike Sample (Form VB)	not reqd	not reqd		
9. Duplicates (Form VI)	21, 22(diss) as MSD	21 as MSD		
10. Laboratory Control Sample (Form VII)	20, 22(diss)	20		
11. Serial Dilutions (Form VIII)	not reqd	not reqd		
12. Method Detection Limits (Annually) (Form IX)	not reqd	not reqd		
13. Linear Ranges (Quarterly) (Form XI)	not reqd	not reqd		
14. Preparation Log (Form XII)	not reqd	not reqd		
15. Analysis Run Log (Form XIII)	not reqd	not reqd		
16. ICP-MS Tune (Form XIV)	475	364-365**		
17. IPC-MS Internal Stds Relative Intensity (Form XV)	294-295	399-401		
18. ICP-MS Raw Data	312-398	417-473		
19. Preparation Logs Raw Data	474	474		
20. Original prep/analysis forms or copies of logbook pgs	290-293	265-267**		

21. Comments
LCS (lab limits) – P
Non-conformance report on pg. 22
Cover sheet on pg. 289 shows ‘6020A’ but actually method 200.8 as shown on analytical results

*Dissolved metals not requested for samples 1,4,6,7
**Page numbers in work order 113653 (missing in 113593)

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/19/12 (Date)

ATTACHMENT B
LABORATORY ADDENDUM

Eastern Analytical, Inc.
professional laboratory & drilling services

November 28, 2012

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook, NH 03229

Addendum: 113593, 113653 and 113689

Mr. McKibben

Enclosed please find the data requested by Ms. Taryn Scholz of Quality Assurance Associates. The enclosed data is an addendum to the final reports issued for EAI SRB: 113593, 113653 and 113689.

Please do not hesitate to contact me with any additional questions or concerns.

Sincerely,

Kathleen E. Noonan-Kelley
QA/QC Coordinator

ENC. 8 pages

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	337733	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.14	95	128113	10.16	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.58%			
78) SS 1,2-DCB-d4_MS	19.76	152	135542	10.59	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.85%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	d	
3) chloromethane	0.00	50	0	N.D.	d	
4) vinyl chloride	0.00	62	0	N.D.	d	
5) bromomethane	0.00	94	0	N.D.	d	
6) chloroethane	0.00	64	0	N.D.	d	
7) trichlorofluoromethane	0.00	101	0	N.D.	d	
8) diethyl ether	5.02	59	1884433	274.730	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	5.25	101	2693982	265.663	ug/L	98
10) acetone	5.39	43	597498	311.338	ug/L	97
11) 1,1-dichloroethene	5.60	96	2494588	265.035	ug/L	97
12) tert-Butyl Alcohol(TBA)	5.94	59	1010649m	1441.982	ug/L	
13) methylene chloride	6.54	84	2605428	259.985	ug/L	97
14) carbon disulfide	6.56	76	6881922	263.188	ug/L	98
15) acrylonitrile	6.82	53	854560	259.193	ug/L	98
16) Methyl-t-butyl ether(MTBE)	6.85	73	13242292	538.527	ug/L	97
17) trans-1,2-dichloroethene	7.14	96	2665871	301.091	ug/L	95
18) hexane	7.28	57	3289594	282.570	ug/L	97
19) Isopropyl ether(DIPE)	7.83	45	7923155	288.552	ug/L	96
20) vinyl acetate	0.00	43	0	N.D.	d	
21) 1,1-dichloroethane	8.04	63	4509875	284.706	ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.70	59	7634176	302.290	ug/L	96
23) 2,2-dichloropropane	9.24	77	3971980	293.767	ug/L	92
24) cis-1,2-dichloroethene	9.36	61	3457011	286.879	ug/L	97
25) 2-butanone(MEK)	8.98	43	945469	275.351	ug/L	96
26) bromochloromethane	10.08	128	1494653	316.022	ug/L	94
27) Tetrahydrofuran(THF)	10.16	42	598067	271.529	ug/L	97
28) chloroform	9.71	83	4672440	296.082	ug/L	99
29) SS Dibromofluoromethane_MS	10.20	111	77219	10.079	ug/L #	1
30) 1,1,1-trichloroethane	10.59	97	4219895	307.985	ug/L	97
31) carbon tetrachloride	11.17	117	3986905	338.805	ug/L	98
32) 1,1-dichloropropene	10.97	75	3882031	292.701	ug/L	91
33) SS 1,2-DCA-d4_MS	11.33	65	86328	9.296	ug/L #	61
34) tert-amyl methyl ether(TAM	11.25	73	7740298	320.451	ug/L	94
35) benzene	11.56	78	11526590	294.121	ug/L	98
36) 1,2-dichloroethane	11.54	62	3257726	258.898	ug/L	99
37) trichloroethene	12.73	95	3276423	310.244	ug/L	96
38) 1,2-dichloropropane	13.05	63	2814877	303.107	ug/L	93
39) dibromomethane	13.53	93	1728554	307.057	ug/L	95
40) bromodichloromethane	13.44	83	3831775	338.405	ug/L	99
41) 4-methyl-2-pentanone(MIBK)	14.01	58	813519	314.152	ug/L	93
42) cis-1,3-dichloropropene	14.31	75	4610911	338.570	ug/L #	88
43) Chlorobenzene-D5 IS	16.70	117	258522	10.251	ug/L	99
44) SS Toluene-d8_MS	14.66	98	326814	10.059	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

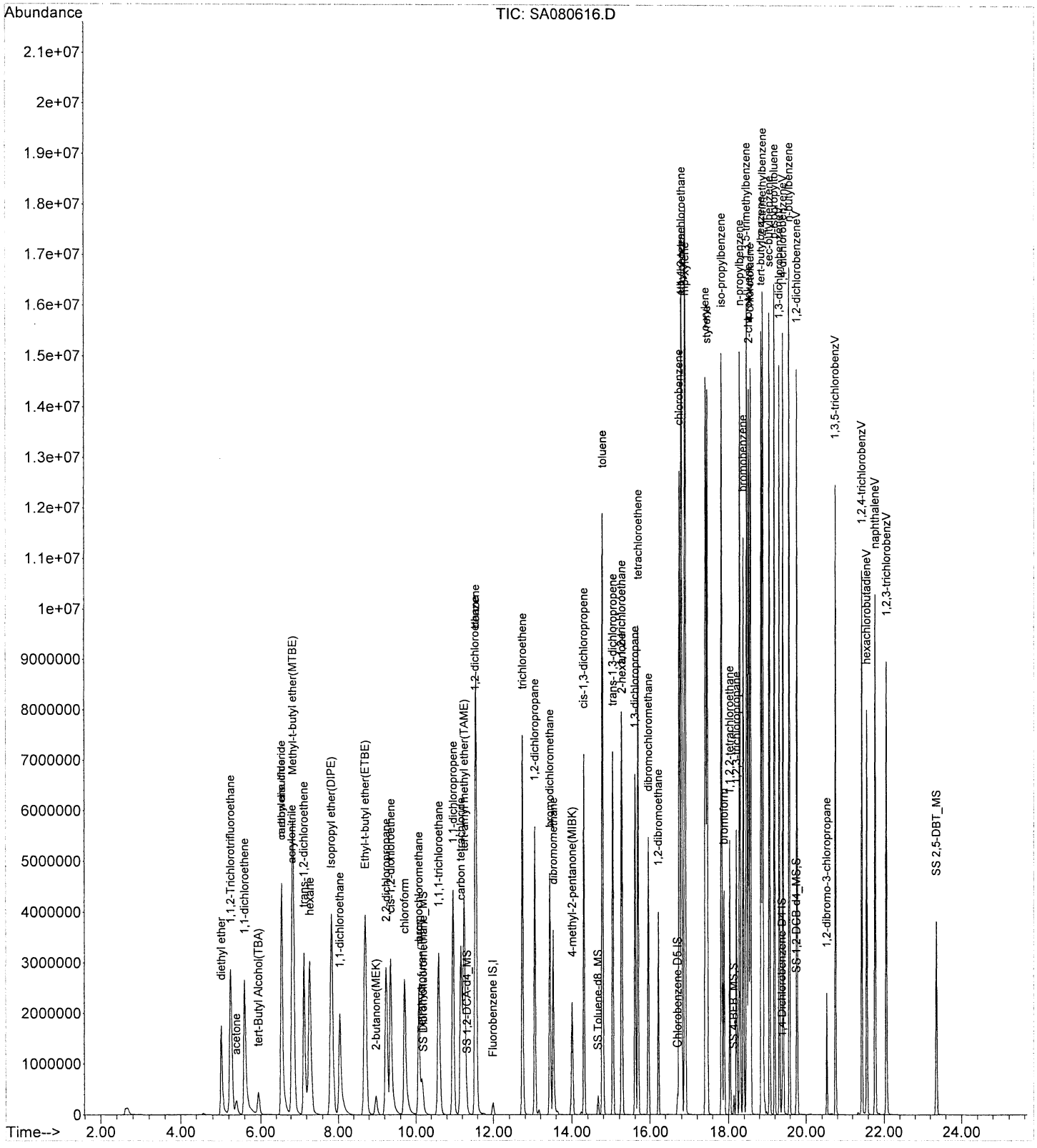
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	11923325	283.582	ug/L		98
46)	trans-1,3-dichloropropene	15.04	75	4406215	347.199	ug/L	#	89
47)	1,1,2-trichloroethane	15.26	83	2066329	312.224	ug/L		94
48)	2-hexanone	15.27	43	1250207	274.468	ug/L		91
49)	tetrachloroethene	15.68	166	3421899	311.759	ug/L	#	94
50)	1,3-dichloropropane	15.60	76	4253537	305.416	ug/L		88
51)	dibromochloromethane	15.96	129	3203573	398.430	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	2673542	325.054	ug/L		99
53)	chlorobenzene	16.75	112	8474592	288.820	ug/L		97
54)	1,1,1,2-tetrachloroethane	16.79	131	2564940	273.778	ug/L		99
55)	ethylbenzene	16.80	91	10997784	228.096	ug/L		96
56)	mp-xylene	16.90	106	8327806	421.543	ug/L		94
57)	o-xylene	17.42	106	5376282	288.687	ug/L		96
58)	styrene	17.46	104	8638974	286.531	ug/L		98
59)	bromoform	17.90	173	1981716	343.457	ug/L		94
60)	iso-propylbenzene	17.83	105	11751338	263.730	ug/L		97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	143345	10.563	ug/L		98
63)	bromobenzene	18.38	156	3801042	308.190	ug/L	#	90
64)	1,1,2,2-tetrachloroethane	18.04	83	2584928	299.435	ug/L		98
65)	1,2,3-trichloropropane	18.21	110	942971	310.567	ug/L		93
66)	n-propylbenzene	18.30	91	13418206	242.710	ug/L		91
67)	2-chlorotoluene	18.52	91	9013121	261.589	ug/L		96
68)	4-chlorotoluene	18.56	91	9104054	264.717	ug/L		96
69)	1,3,5-trimethylbenzene	18.47	105	10199049	298.518	ug/L		98
70)	tert-butylbenzene	18.85	119	9365594	265.266	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	10068952	299.464	ug/L		97
72)	sec-butylbenzene	19.07	105	11798441	242.402	ug/L		96
73)	1,3-dichlorobenzeneV	19.33	146	6421158	277.666	ug/L	#	94
74)	p-isopropyltoluene	19.20	119	10224557	251.138	ug/L		96
75)	1,4-dichlorobenzeneV	19.43	146	6351138	275.525	ug/L	#	96
76)	1,2-dichlorobenzeneV	19.78	146	6038361	281.057	ug/L	#	90
77)	n-butylbenzene	19.59	91	8749088	262.659	ug/L		95
79)	1,2-dibromo-3-chloropropan	20.52	157	655157	416.840	ug/L		93
80)	1,3,5-trichlorobenzV	20.75	180	4199734	327.633	ug/L	#	94
81)	1,2,4-trichlorobenzV	21.44	180	3784076	356.156	ug/L	#	94
82)	hexachlorobutadieneV	21.57	225	1689842	342.711	ug/L		95
83)	naphthaleneV	21.77	128	9023265	413.621	ug/L		99
84)	1,2,3-trichlorobenzV	22.06	180	3335709	365.771	ug/L	#	95
85)	SS 2,5-DBT_MS	23.36	250	1103649	346.069	ug/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 8:20 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:37:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:37:17 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

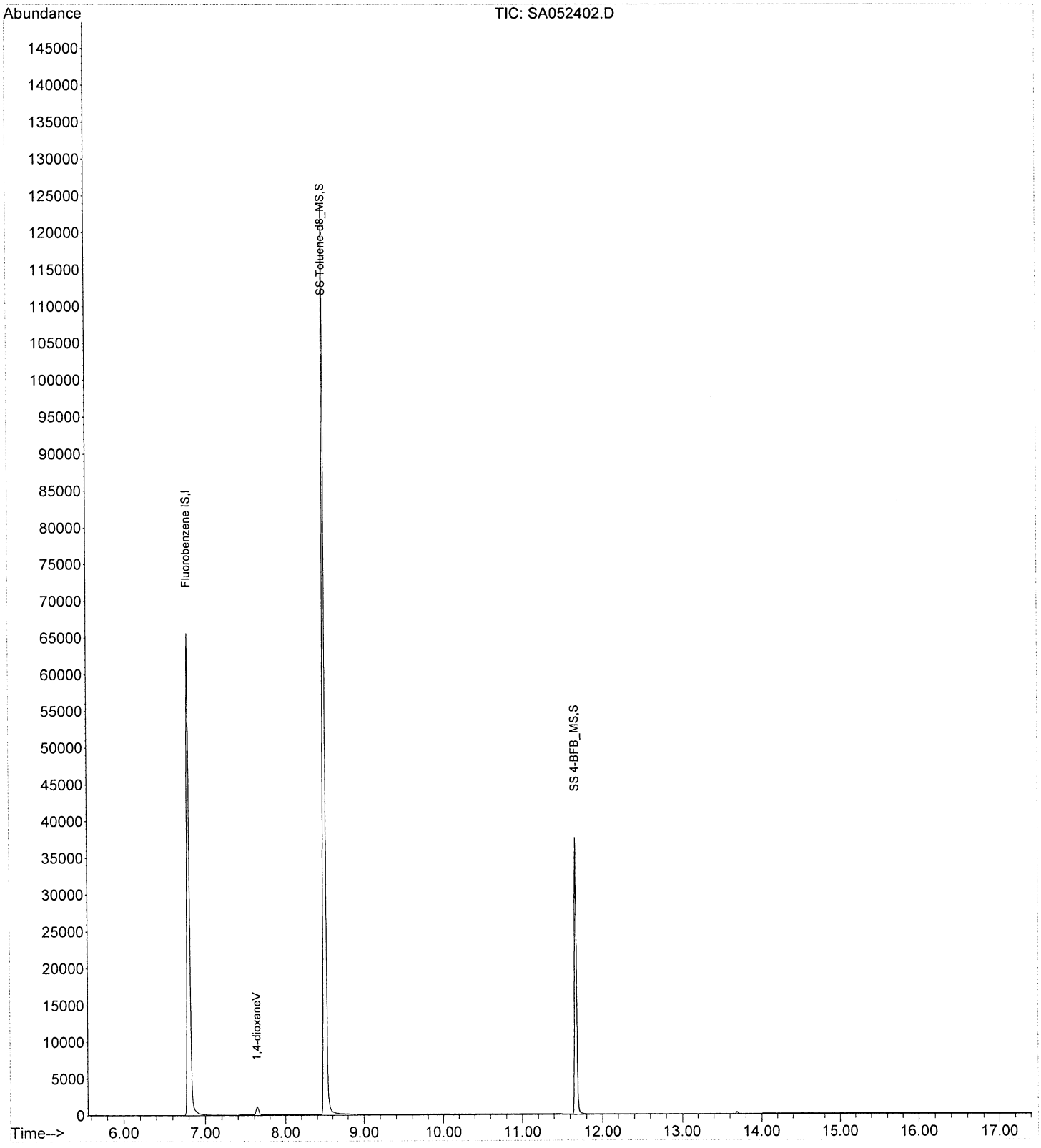
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140949	10.000	ug/L	-0.04
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138600	10.04	ug/L	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
4) SS 4-BFB_MS	11.67	95	63043	10.03	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1506	4.623	ug/L	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:37 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Wed Nov 28 08:41:35 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.02
2		1,4-dioxaneV	5.000	5.118	-2.4	84	0.01
3	S	SS Toluene-d8_MS	10.000	10.208	-2.1	85	0.02
4	S	SS 4-BFB_MS	10.000	9.039	9.6	75	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 08:58:13 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.00
2		1,4-dioxaneV	5.000	5.904	-18.1	97	0.01
3	S	SS Toluene-d8_MS	10.000	8.126	18.7	68	0.00
4	S	SS 4-BFB_MS	10.000	8.228	17.7	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 09:00:13 2012

Kathleen Noonan-Kelley

From: Taryn Scholz [taryn@qaallc.com]
Sent: Tuesday, November 27, 2012 3:15 PM
To: Kathleen Noonan-Kelley
Cc: Kevin Mckibben
Subject: Coakley Landfill 113593, 113653, 113689

Hi Kathleen,

I'm performing the Tier 1 validation of the recent Coakley data. I've found just a few pieces of missing information as follows:
1. 8260B VOCs - The quant report/chromatogram for file SA080616.D (300 M standard) for the 8/6 ICAL on ms5.

2. 8260B SIM 1,4-Dioxane - The quant report/chromatogram for file SA052402.D (STD5) for the 5/24 ICAL on ms2.

3. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090202.D for the 9/2 CCV on ms2.

4. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090218.D for the 9/3 CCV on ms2.

Can you please provide these? Each one is missing from one or more of the three work orders. Please submit as a single addendum for the project to preserve the original page numbers in the data packages.

Please let me know when you'll be able to send them - by Thursday am would be helpful.

Thanks so much,

Taryn

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Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

SITE:	Coakley Landfill (P2081)	
CLIENT:	Provan & Lorber Contoocook, New Hampshire	
LABORATORY:	Eastern Analytical, Inc. (Concord, New Hampshire) Work Order: 113653	
EVENT:	Groundwater Sampling–August 2012 (Part 2 of 3)	
SAMPLES(1):	16 groundwater samples, 1 surface water sample, 2 field duplicates, 1 field blank, 2 field MS/MSD, 2 trip blanks	
TESTS/METHODS(1):	Volatile Organics (VOCs)–73 target analytes	8260B
	1,4 Dioxane	8260B SIM
	Total Metals–23 analytes	200.8
	Dissolved Metals–Fe and Mn	200.8
	Ammonia-N	4500NH3D
	COD	H8000

(1) See Table 1 for a complete listing of samples and the tests performed on each.

QAA completed a Tier I validation of the above chemical analysis data in accordance with the USEPA's Region I *Data Validation Functional Guidelines* (Revised December 1996).

The validation was performed using a 'Level C' data package submitted by the laboratory in portable document format (pdf) and Complete SDG File (CSF) Inventory Sheets, which are included as Attachment A.

The validator checked the data package for completeness, assessed the results of Performance Evaluation (PE) samples analyzed with the field samples, and confirmed that all sample tests were performed within the method holding times. The results of the validation are summarized as follows:

Data Completeness: All sample results, QC results, and raw data including all information necessary to perform a Tier III validation as applicable for the analytical methodology is included in the original laboratory data package except as follows:

- The original data package is missing a few items that were provided upon request. The laboratory submitted these items in an addendum, which is included as Attachment B.
- For the GC/MS tests (VOCs and 1,4-Dioxane), the raw mass spectra are not included in the package. The laboratory does not provide spectra for detects for GC/MS since the quantitation report provides the retention time, the target analyte identification, and the Q value, which gives a good indication of how the sample mass spectrum matches the reference spectrum; and thus, no further action was taken.
- For metals, the package is missing a copy of the analysis logbook pages and the ICP-MS tune data for the 9/6/12 analytical run. This information is included in work order 113593 and thus no further action was taken.

Additionally, the validator checked the sample information on the custody record (i.e., the sample ID, date received, date sampled, and sample matrix) against that reported by the laboratory and found no discrepancies.

PE Sample Results: A laboratory control sample (LCS), which is a clean sample matrix spiked with the analytes of interest, was analyzed with every analytical batch (maximum 20 samples of the same matrix). Additionally, a laboratory control sample duplicate (LCSD) was analyzed with every analytical batch for all tests except metals. Results are shown in Table 2.

Holding Time Check: All tests were performed within the holding times specified in the analytical methods.

QAA Validator: Taryn G. Scholz (Name) 11/27/12 (Date)

Attachments:
A Complete SDG File (CSF) Inventory Sheets
B Laboratory Addendum

TABLE 1
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 2 OF 3)

SAMPLES COLLECTED

Lab ID	Sample ID	Date Sampled	Matrix	Tests Performed					
				VOCs	1,4-Dioxane	23 Total Metals	Dissolved Fe/Mn	Ammonia-N	COD
113653.01	GW-MW-4-0812	8/28/12	Water		X	X	X		
113653.02	GW-MW-9-0812	8/28/12	Water		X	X	X		
113653.03	GW-MW-11-0812	8/29/12	Water	X	X	X			
113653.04	GW-OP-5-0812	8/28/12	Water			X	X		
113653.05	GW-AE-2A-0812	8/30/12	Water	X	X	X	X		
113653.06	GW-AE-3A-0812	8/30/12	Water	X	X	X	X		
113653.07	GW-AE-3B-0812(1)	8/30/12	Water	X	X	X	X		
113653.08	GW-AE-3B-DUP-0812	8/30/12	Water	X	X	X	X		
113653.09	GW-AE-4A-0812	8/29/12	Water	X	X	X	X		
113653.1	GW-AE-4B-0812	8/29/12	Water	X	X	X	X		
113653.11	GW-FPC-2A-0812	8/29/12	Water	X		X	X		
113653.12	GW-FPC-2B-0812	8/29/12	Water	X		X	X		
113653.13	GW-FPC-4B-0812	8/29/12	Water	X	X	X	X		
113653.14	GW-FPC-5A-0812	8/30/12	Water		X	X			
113653.15	GW-FPC-5B-0812	8/30/12	Water		X	X			
113653.16	GW-FPC-6A-0812	8/29/12	Water	X	X	X	X		
113653.17	GW-FPC-6B-0812	8/29/12	Water	X	X	X	X		
113653.18	LC-L-1-0812(1)	8/30/12	Water	X	X	X		X	X
113653.19	LC-L-1-DUP-0812	8/30/12	Water					X	X
113653.2	GW-AE-3B-FB-0812	8/30/12	Water	X	X	X	X		
113653.21	Trip Blank	-	Water	X					
113653.22	Trip Blank	-	Water		X				

1) Field MS/MSD collected at this location (Ammonia-N only for LC-L-1-0812).

TABLE 2
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 2 OF 3)

PE SAMPLE RESULTS

Test	Lab Limits	Analysis Date	PE Sample Type	QC Outcome
VOCs 8260B	40-160% or 70-130%(1)	9/4/12	LCS/LCSD	Recoveries within limits for all target analytes except: 2,2-Dichloropropane 68% (LCS)
		9/5/12	LCS/LCSD	Recoveries within limits for all target analytes
1,4-Dioxane	70-130%	8/31/12	LCS/LCSD	Recoveries within limits for the target analyte
		9/2/12	LCS/LCSD	Recoveries within limits for the target analyte
		9/3/12	LCS/LCSD	Recoveries within limits for the target analyte
Total and Dissolved Metals	85-115%	9/6/12	LCS	Recoveries within limits for all target analytes
		9/7/12	LCS	Recoveries within limits for all target analytes
Ammonia-N	90-110%	9/11/12	LCS/LCSD	Recoveries within limits for the target analyte
COD	85-115%	9/4/12	LCS/LCSD	Recoveries within limits for the target analyte

(1) Laboratory limits are 40-160% for seven of the analytes (i.e., dichlorodifluoromethane, chloromethane, bromomethane, acetone, 2-butanone (MEK), 1,4-dioxane, and 2-hexanone). These analytes are volatile gases, highly water soluble ketones, or unstable analytes and typically show lower performance.

ATTACHMENT A
COMPLETE SDG FILE (CSF) INVENTORY SHEETS

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113653(QAA No. PL10)
SDG NOs. TO FOLLOW: 113689(PL11)

All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

ITEM	PAGE NUMBER(S)
1. Signed Cover Sheet with NELAC Accreditation	cover
2. SDG Case Narrative	*
3. Sample ID Summary	1
4. Shipping/Receiving Documents	
Airbills (No. of shipments:)	hand delivered
Chain-of-custody records	30-32
Sample tags	NA
Sample log-in sheet (Lab, DC-1)	1
Miscellaneous shipping/receiving records Describe:	NA
5. Internal Lab Sample Transfer Records and Tracking Sheets	
Describe:	NA
6. Other Records	
Percent solids determination log	NA
Telephone communication log	NA
Describe:	NA
7. Comments * Included at the end of each QC report (i.e., blank, spike QC Summary) for each test	

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/26/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113653(QAA No. PL10)
SDG NOs. TO FOLLOW: 113689(PL11)

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: VOCs
Method: 8260B

	PAGE NUMBER(S)			
Date/Batch:	9/4/12	9/5/12		
Samples:	3,5,6, 7(MS/D), 8-13,16-18	20,21		
1. QC Summary				
Deuterated Monitoring Compound (Form II)	80-81	132-133		
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample: 7)	10-11	NA		
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	8-9	12-13		
Method Blank (Form IV)	8-9	12-13		
GC/MS Instrument Performance Tune (Form V)	82	134		
Internal Standard Area and RT Form VIII)	80-81	132-133		
2. Sample Data				
TCL Results (Form I) (no. analytes: 73)	2-5	4-7		
Tentatively Identified Compounds (Form I TIC)	NA	NA		
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	93-100, 107-124*	145-148*		
3. Standards Data				
Initial Calibration Summary (Form VI) (8/6 ms5)	34-39	34-39		
Quantitation reports and RIC for all standards	40-77, addendum 1-3	40-77, addendum 1-3		
Continuing Calibration Summary (Form VII)	86-87	138-139		
Quantitation reports and RIC for all standards	88-90	140-142		
4. Raw QC Data				
Tune	82	134		
Method Blank	91-92	143-144		
Lab Control Sample/Lab Control Sample Dup	125-130	149-154		
Matrix Spike/Matrix Spike Dup	101-106	NA		
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	79	131		
Internal sample/extract transfer custody records	not incl	not incl		
Screening records	NA	NA		
Other instrument output, including strip charts from screening activities Describe:	NA	NA		

6. Comments
LCS/LCSD (lab limits) – %R < LCL for 2,2-dichloropropane (68%/P at 71%) for 9/4/12

*Raw spectra not included, quantitation reports include Q values

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/26/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113653(QAA No. PL10)
SDG NOs. TO FOLLOW: 113689(PL11)

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: 1,4-Dioxane
Method: 8260B SIM

	PAGE NUMBER(S)			
Date/Batch:	8/31/12	9/2/12	9/3/12	
Samples:	2,3,5-8	7MS/D, 1,14-18,20,22	9,10,13	
1. QC Summary				
Deuterated Monitoring Compound (Form II)	179	207	243	
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample: 7)	NA	17	NA	
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	17	18	19	
Method Blank (Form IV)	17	18	19	
GC/MS Instrument Performance Tune (Form V)	180	208	244	
Internal Standard Area and RT Form VIII)	179	207	243	
2. Sample Data				
TCL Results (Form I) (no. analytes: 1)	14	16	14-16	
Tentatively Identified Compounds (Form I TIC)	NA	NA	NA	
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	190-205*	223-242*	255-260*	
3. Standards Data				
Initial Calibration Summary (Form VI) (5/24/12 ms2)	156-158	156-158	156-158	
Quantitation reports and RIC for all standards	159-174, addendum 4-5	159-174, addendum 4-5	159-174, addendum 4-5	
Continuing Calibration Summary (Form VII)	181	addendum 6	addendum 7	
Quantitation reports and RIC for all standards	182-183	209-210	245-246	
4. Raw QC Data				
Tune	180	208	244	
Method Blank	188-189	221-222	253-254	
Lab Control Sample/Lab Control Sample Dup	184-187	211-214	247-252	
Matrix Spike/Matrix Spike Dup	NA	215-220	NA	
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	178	206	206	
Internal sample/extract transfer custody records	not incl	not incl	not incl	
Screening records	NA	NA	NA	
Other instrument output, including strip charts from screening activities Describe:	NA	NA	NA	
6. Comments LCS/LCSD (lab limits) – P/P *Raw spectra not included, quantitation reports include Q values				

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/26/12 (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113653(QAA No. PL10)
SDG NOs. TO FOLLOW: 113689(PL11)

INDUCTIVELY COUPLED PLASMA/ MASS SPECTROMETRY (ICP-MS)
Parameter: 23 Total, Fe/Mn Dissolved
Method: 200.8

	PAGE NUMBER(S)			
Date/Batch:	9/6/12	9/7/12	9/10/12	
Samples:	1-18,20 7MS/D (Total)	1-18,20* (Al,Ca,Mg,Na Total; Fe,Mn Diss)	18(Ca,Na) 1-18,20 (Be reruns)	
1. Cover Sheet	not reqd	not reqd	not reqd	
2. Sample Data Sheet (Form I)	22-26	22-26	22-26	
3. Initial/Continuing Calibration Verification (Form IIA)	275-284	366-372	527	
4. CRQL Standard (From IIB)	not reqd	not reqd	not reqd	
5. Blanks (Form III)	27; 270-274	27,29(diss); 373-379	NA^; 526	
6. Interference Check Sample (Form IVB)	285	380	528	
7. Matrix Spike Sample (Form VA) (Parent Sample: 7)	28 with MSD	28,29(diss) with MSD	NA	
8. Post-Digestion Spike Sample (Form VB)	not reqd	not reqd	not reqd	
9. Duplicates (Form VI)	28 as MSD	28,29(diss) as MSD	NA	
10. Laboratory Control Sample (Form VII)	27	27,29(diss)	NA^	
11. Serial Dilutions (Form VIII)	not reqd	not reqd	not reqd	
12. Method Detection Limits (Annually) (Form IX)	not reqd	not reqd	not reqd	
13. Linear Ranges (Quarterly) (Form XI)	not reqd	not reqd	not reqd	
14. Preparation Log (Form XII)	not reqd	not reqd	not reqd	
15. Analysis Run Log (Form XIII)	not reqd	not reqd	not reqd	
16. ICP-MS Tune (Form XIV)	475**	364-365	529-530	
17. IPC-MS Internal Stds Relative Intensity (Form XV)	268-269	361-363	525	
18. ICP-MS Raw Data	286-360	381-521	531-590	
19. Preparation Logs Raw Data	591	591	591	
20. Original prep/analysis forms or copies of logbook pgs	290-293**	265-267	522-524	

21. Comments
LCS (lab limits) – P
Cover sheet on pg. 264 shows ‘6020A’ but actually method 200.8 as shown on analytical results

*Dissolved metals not requested for samples 3,14,15,18
**Page numbers in work order 113593 (missing in 113653)
^Blank/LCS not rerun with samples (original run on 9/6 passed QC)

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/26/12 (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113653(QAA No. PL10)
SDG NOs. TO FOLLOW: 113689(PL11)

WET CHEMISTRY

	PAGE NUMBER(S)			
Parameter/Method:	NH3-N 4500	COD H8000		
Date/Batch:	9/11/12	9/4/12		
Samples:	18,19	18,19		
1. Sample Data Sheet (Form I	20	20		
2. Initial/Continuing Calibration Verification (Form II)	263	262		
3. Blanks (Form III)	21	21		
4. Matrix Spike Sample (Form V) (Parent Sample: 18)	21 w/MSD	NA		
5. Duplicates (Form VI)	21 as MSD	NA		
6. Laboratory Control Sample (Form VII)	21 w/LCSD	21 w/LCSD		
7. Raw Data	263	262		
8. Original prep/analysis forms or copies of logbook pgs	263	262		
9. Comments LCS/LCSD (lab limits) – P/P Non-conformance report on pg. 21				

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/26/12 (Date)

ATTACHMENT B
LABORATORY ADDENDUM

Eastern Analytical, Inc.
professional laboratory & drilling services

November 28, 2012

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook, NH 03229

Addendum: 113593, 113653 and 113689

Mr. McKibben

Enclosed please find the data requested by Ms. Taryn Scholz of Quality Assurance Associates. The enclosed data is an addendum to the final reports issued for EAI SRB: 113593, 113653 and 113689.

Please do not hesitate to contact me with any additional questions or concerns.

Sincerely,

Kathleen E. Noonan-Kelley
QA/QC Coordinator

ENC. 8 pages

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	337733	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.14	95	128113	10.16	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.58%			
78) SS 1,2-DCB-d4_MS	19.76	152	135542	10.59	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.85%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	d	
3) chloromethane	0.00	50	0	N.D.	d	
4) vinyl chloride	0.00	62	0	N.D.	d	
5) bromomethane	0.00	94	0	N.D.	d	
6) chloroethane	0.00	64	0	N.D.	d	
7) trichlorofluoromethane	0.00	101	0	N.D.	d	
8) diethyl ether	5.02	59	1884433	274.730	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	5.25	101	2693982	265.663	ug/L	98
10) acetone	5.39	43	597498	311.338	ug/L	97
11) 1,1-dichloroethene	5.60	96	2494588	265.035	ug/L	97
12) tert-Butyl Alcohol(TBA)	5.94	59	1010649m	1441.982	ug/L	
13) methylene chloride	6.54	84	2605428	259.985	ug/L	97
14) carbon disulfide	6.56	76	6881922	263.188	ug/L	98
15) acrylonitrile	6.82	53	854560	259.193	ug/L	98
16) Methyl-t-butyl ether(MTBE)	6.85	73	13242292	538.527	ug/L	97
17) trans-1,2-dichloroethene	7.14	96	2665871	301.091	ug/L	95
18) hexane	7.28	57	3289594	282.570	ug/L	97
19) Isopropyl ether(DIPE)	7.83	45	7923155	288.552	ug/L	96
20) vinyl acetate	0.00	43	0	N.D.	d	
21) 1,1-dichloroethane	8.04	63	4509875	284.706	ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.70	59	7634176	302.290	ug/L	96
23) 2,2-dichloropropane	9.24	77	3971980	293.767	ug/L	92
24) cis-1,2-dichloroethene	9.36	61	3457011	286.879	ug/L	97
25) 2-butanone(MEK)	8.98	43	945469	275.351	ug/L	96
26) bromochloromethane	10.08	128	1494653	316.022	ug/L	94
27) Tetrahydrofuran(THF)	10.16	42	598067	271.529	ug/L	97
28) chloroform	9.71	83	4672440	296.082	ug/L	99
29) SS Dibromofluoromethane_MS	10.20	111	77219	10.079	ug/L #	1
30) 1,1,1-trichloroethane	10.59	97	4219895	307.985	ug/L	97
31) carbon tetrachloride	11.17	117	3986905	338.805	ug/L	98
32) 1,1-dichloropropene	10.97	75	3882031	292.701	ug/L	91
33) SS 1,2-DCA-d4_MS	11.33	65	86328	9.296	ug/L #	61
34) tert-amyl methyl ether(TAM	11.25	73	7740298	320.451	ug/L	94
35) benzene	11.56	78	11526590	294.121	ug/L	98
36) 1,2-dichloroethane	11.54	62	3257726	258.898	ug/L	99
37) trichloroethene	12.73	95	3276423	310.244	ug/L	96
38) 1,2-dichloropropane	13.05	63	2814877	303.107	ug/L	93
39) dibromomethane	13.53	93	1728554	307.057	ug/L	95
40) bromodichloromethane	13.44	83	3831775	338.405	ug/L	99
41) 4-methyl-2-pentanone(MIBK)	14.01	58	813519	314.152	ug/L	93
42) cis-1,3-dichloropropene	14.31	75	4610911	338.570	ug/L #	88
43) Chlorobenzene-D5 IS	16.70	117	258522	10.251	ug/L	99
44) SS Toluene-d8_MS	14.66	98	326814	10.059	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

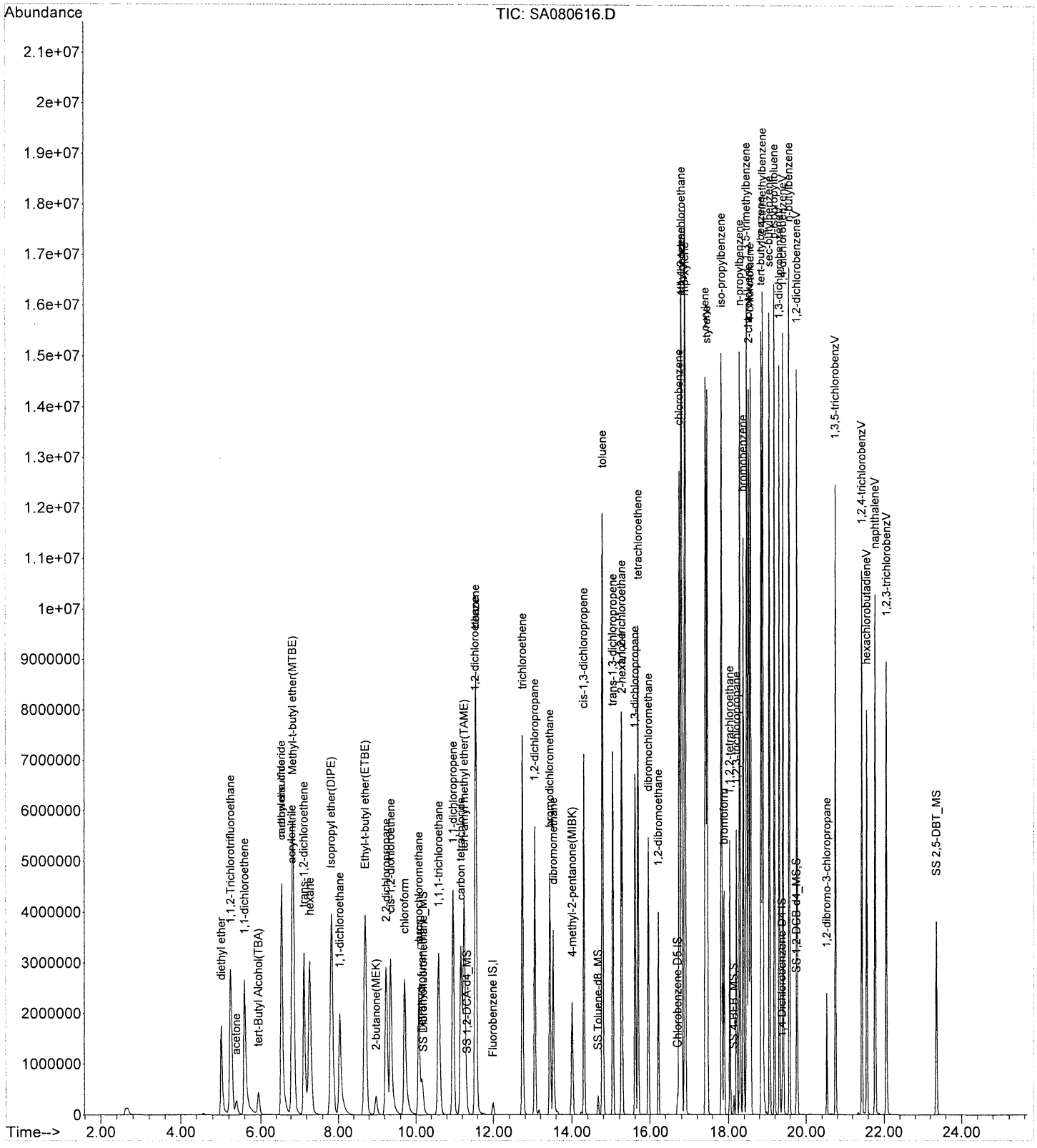
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	11923325	283.582	ug/L		98
46)	trans-1,3-dichloropropene	15.04	75	4406215	347.199	ug/L	#	89
47)	1,1,2-trichloroethane	15.26	83	2066329	312.224	ug/L		94
48)	2-hexanone	15.27	43	1250207	274.468	ug/L		91
49)	tetrachloroethene	15.68	166	3421899	311.759	ug/L	#	94
50)	1,3-dichloropropane	15.60	76	4253537	305.416	ug/L		88
51)	dibromochloromethane	15.96	129	3203573	398.430	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	2673542	325.054	ug/L		99
53)	chlorobenzene	16.75	112	8474592	288.820	ug/L		97
54)	1,1,1,2-tetrachloroethane	16.79	131	2564940	273.778	ug/L		99
55)	ethylbenzene	16.80	91	10997784	228.096	ug/L		96
56)	mp-xylene	16.90	106	8327806	421.543	ug/L		94
57)	o-xylene	17.42	106	5376282	288.687	ug/L		96
58)	styrene	17.46	104	8638974	286.531	ug/L		98
59)	bromoform	17.90	173	1981716	343.457	ug/L		94
60)	iso-propylbenzene	17.83	105	11751338	263.730	ug/L		97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	143345	10.563	ug/L		98
63)	bromobenzene	18.38	156	3801042	308.190	ug/L	#	90
64)	1,1,2,2-tetrachloroethane	18.04	83	2584928	299.435	ug/L		98
65)	1,2,3-trichloropropane	18.21	110	942971	310.567	ug/L		93
66)	n-propylbenzene	18.30	91	13418206	242.710	ug/L		91
67)	2-chlorotoluene	18.52	91	9013121	261.589	ug/L		96
68)	4-chlorotoluene	18.56	91	9104054	264.717	ug/L		96
69)	1,3,5-trimethylbenzene	18.47	105	10199049	298.518	ug/L		98
70)	tert-butylbenzene	18.85	119	9365594	265.266	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	10068952	299.464	ug/L		97
72)	sec-butylbenzene	19.07	105	11798441	242.402	ug/L		96
73)	1,3-dichlorobenzeneV	19.33	146	6421158	277.666	ug/L	#	94
74)	p-isopropyltoluene	19.20	119	10224557	251.138	ug/L		96
75)	1,4-dichlorobenzeneV	19.43	146	6351138	275.525	ug/L	#	96
76)	1,2-dichlorobenzeneV	19.78	146	6038361	281.057	ug/L	#	90
77)	n-butylbenzene	19.59	91	8749088	262.659	ug/L		95
79)	1,2-dibromo-3-chloropropan	20.52	157	655157	416.840	ug/L		93
80)	1,3,5-trichlorobenzV	20.75	180	4199734	327.633	ug/L	#	94
81)	1,2,4-trichlorobenzV	21.44	180	3784076	356.156	ug/L	#	94
82)	hexachlorobutadieneV	21.57	225	1689842	342.711	ug/L		95
83)	naphthaleneV	21.77	128	9023265	413.621	ug/L		99
84)	1,2,3-trichlorobenzV	22.06	180	3335709	365.771	ug/L	#	95
85)	SS 2,5-DBT_MS	23.36	250	1103649	346.069	ug/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 8:20 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:37:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:37:17 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

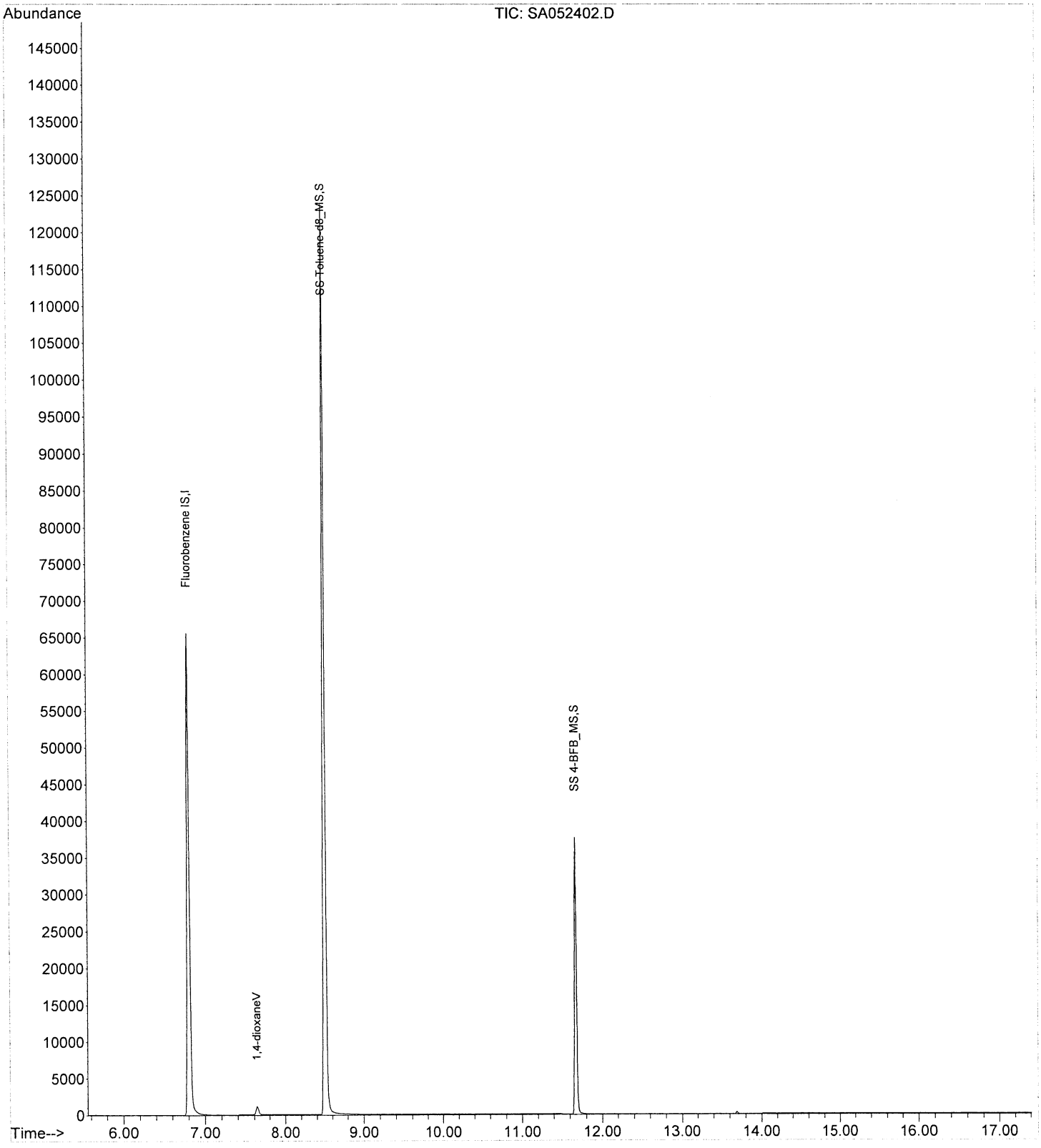
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140949	10.000	ug/L	-0.04
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138600	10.04	ug/L	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
4) SS 4-BFB_MS	11.67	95	63043	10.03	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1506	4.623	ug/L	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:37 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Wed Nov 28 08:41:35 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.02
2		1,4-dioxaneV	5.000	5.118	-2.4	84	0.01
3	S	SS Toluene-d8_MS	10.000	10.208	-2.1	85	0.02
4	S	SS 4-BFB_MS	10.000	9.039	9.6	75	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 08:58:13 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.00
2		1,4-dioxaneV	5.000	5.904	-18.1	97	0.01
3	S	SS Toluene-d8_MS	10.000	8.126	18.7	68	0.00
4	S	SS 4-BFB_MS	10.000	8.228	17.7	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 09:00:13 2012

Kathleen Noonan-Kelley

From: Taryn Scholz [taryn@qaallc.com]
Sent: Tuesday, November 27, 2012 3:15 PM
To: Kathleen Noonan-Kelley
Cc: Kevin Mckibben
Subject: Coakley Landfill 113593, 113653, 113689

Hi Kathleen,

I'm performing the Tier 1 validation of the recent Coakley data. I've found just a few pieces of missing information as follows:
1. 8260B VOCs - The quant report/chromatogram for file SA080616.D (300 M standard) for the 8/6 ICAL on ms5.

2. 8260B SIM 1,4-Dioxane - The quant report/chromatogram for file SA052402.D (STD5) for the 5/24 ICAL on ms2.

3. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090202.D for the 9/2 CCV on ms2.

4. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090218.D for the 9/3 CCV on ms2.

Can you please provide these? Each one is missing from one or more of the three work orders. Please submit as a single addendum for the project to preserve the original page numbers in the data packages.

Please let me know when you'll be able to send them - by Thursday am would be helpful.

Thanks so much,

Taryn

--

Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

SITE:	Coakley Landfill (P2081)	
CLIENT:	Provan & Lorber Contoocook, New Hampshire	
LABORATORY:	Eastern Analytical, Inc. (Concord, New Hampshire) Work Order: 113689	
EVENT:	Groundwater Sampling–August 2012 (Part 3 of 3)	
SAMPLES(1):	11 groundwater samples, 2 drinking water samples, 2 trip blanks	
TESTS/METHODS(1):	Volatile Organics (VOCs)–73 target analytes	8260B
	Volatile Organics (VOCs)–73 target analytes	524.2
	1,4 Dioxane	8260B SIM
	Total Metals–23 analytes	200.8
	Dissolved Metals–Fe and Mn	200.8

(1) See Table 1 for a complete listing of samples and the tests performed on each.

QAA completed a Tier I validation of the above chemical analysis data in accordance with the USEPA's Region I *Data Validation Functional Guidelines* (Revised December 1996).

The validation was performed using a 'Level C' data package submitted by the laboratory in portable document format (pdf) and Complete SDG File (CSF) Inventory Sheets, which are included as Attachment A.

The validator checked the data package for completeness, assessed the results of Performance Evaluation (PE) samples analyzed with the field samples, and confirmed that all sample tests were performed within the method holding times. The results of the validation are summarized as follows:

Data Completeness: All sample results, QC results, and raw data including all information necessary to perform a Tier III validation as applicable for the analytical methodology is included in the original laboratory data package except as follows:

- The original data package is missing a few items that were provided upon request. The laboratory submitted these items in an addendum, which is included as Attachment B.
- For the GC/MS tests (VOCs and 1,4-Dioxane), the raw mass spectra are not included in the package. The laboratory does not provide spectra for detects for GC/MS since the quantitation report provides the retention time, the target analyte identification, and the Q value, which gives a good indication of how the sample mass spectrum matches the reference spectrum; and thus, no further action was taken.
- For metals, the package is missing a copy of the analysis logbook pages and the ICP-MS tune data for the 9/6/12 analytical run. This information is included in work order 113593 and thus no further action was taken.
- For metals, the package is also missing a copy of the analysis logbook pages and the ICP-MS tune data for the 9/7/12 analytical run. This information is included in work order 113653 and thus no further action was taken.

Additionally, the validator checked the sample information on the custody record (i.e., the sample ID, date received, date sampled, and sample matrix) against that reported by the laboratory and found no discrepancies.

PE Sample Results: A laboratory control sample (LCS), which is a clean sample matrix spiked with the analytes of interest, was analyzed with every analytical batch (maximum 20 samples of the same matrix). Additionally, a laboratory control sample duplicate (LCSD) was analyzed with every analytical batch for all tests except metals. Results are shown in Table 2.

Holding Time Check: All tests were performed within the holding times specified in the analytical methods.

QAA Validator: Taryn G. Scholz (Name) 11/27/12 (Date)

Attachments:
A Complete SDG File (CSF) Inventory Sheets
B Laboratory Addendum

TABLE 1
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 3 OF 3)

SAMPLES COLLECTED

Lab ID	Sample ID	Date Sampled	Matrix	Tests Performed				
				VOCs (8260B)	VOCs (524.2)	1,4-Dioxane	23 Total Metals	Dissolved Fe/Mn
113689.01	GW-AE-1A-0812	8/31/12	Water				X	X
113689.02	GW-AE-1B-0812	8/30/12	Water				X	X
113689.03	GW-AE-2B-0812	8/30/12	Water	X		X	X	X
113689.04	GW-FPC-7A-0812	8/31/12	Water			X	X	X
113689.05	GW-FPC-7B-0812	8/31/12	Water			X	X	X
113689.06	GW-FPC-8A-0812	8/31/12	Water	X		X	X	
113689.07	GW-FPC-8B-0812	8/31/12	Water	X		X	X	X
113689.08	GW-FPC-9A-0812	8/31/12	Water				X	X
113689.09	GW-FPC11A-0812	8/31/12	Water				X	X
113689.1	GW-FPC-11B-0812	8/31/12	Water				X	X
113689.11	GW-GZ-105-0812	8/31/12	Water	X		X	X	X
113689.12	DW-R-3-0812	8/30/12	Water		X	X		
113689.13	DW-346BHR-0812	8/30/12	Water		X	X		
113689.14	Trip Blank	-	Water		X			
113689.15	Trip Blank	-	Water			X		

TABLE 2
COAKLEY LANDFILL
GROUNDWATER SAMPLING - AUGUST 2012
(PART 3 OF 3)

PE SAMPLE RESULTS

Test	Lab Limits	Analysis Date	PE Sample Type	QC Outcome
VOCs 8260B	40-160% or 70-130%(1)	9/5/12	LCS/LCSD	Recoveries within limits for all target analytes
VOCs 524.2	70-130%	9/6/12	LCS/LCSD	Recoveries within limits for the target analyte except: Dichlorodifluoromethane 66% (LCS) and 63% (LCSD) Chloromethane 69% (LCSD) Vinyl acetate 59% (LCS) and 58% (LCSD) 2,2-Dichloropropane 60% (LCS) and 58% (LCSD)
1,4-Dioxane	70-130%	9/6/12	LCS/LCSD	Recoveries within limits for the target analyte
Total and Dissolved Metals	85-115%	9/6/12	LCS	Recoveries within limits for all target analytes
		9/7/12	LCS	Recoveries within limits for all target analytes

(1) Laboratory limits are 40-160% for seven of the analytes (i.e., dichlorodifluoromethane, chloromethane, bromomethane, acetone, 2-butanone (MEK), 1,4-dioxane, and 2-hexanone). These analytes are volatile gases, highly water soluble ketones, or unstable analytes and typically show lower performance.

ATTACHMENT A
COMPLETE SDG FILE (CSF) INVENTORY SHEETS

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113689(QAA No. PL11)
SDG NOs. TO FOLLOW: None

All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

ITEM	PAGE NUMBER(S)
1. Signed Cover Sheet with NELAC Accreditation	cover
2. SDG Case Narrative	*
3. Sample ID Summary	1
4. Shipping/Receiving Documents	
Airbills (No. of shipments:)	hand delivered
Chain-of-custody records	20-21
Sample tags	NA
Sample log-in sheet (Lab, DC-1)	1
Miscellaneous shipping/receiving records Describe:	NA
5. Internal Lab Sample Transfer Records and Tracking Sheets	
Describe:	NA
6. Other Records	
Percent solids determination log	NA
Telephone communication log	NA
Describe:	NA
7. Comments * Included at the end of each QC report (i.e., blank, spike QC Summary) for each test	

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/27/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113689(QAA No. PL11)
SDG NOs. TO FOLLOW: None

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: VOCs
Method: 8260B

	PAGE NUMBER(S)			
Date/Batch:	9/5/12			
Samples:	3,6,7,11			
1. QC Summary				
Deuterated Monitoring Compound (Form II)	69-70			
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample:)	NA			
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	4-5			
Method Blank (Form IV)	4-5			
GC/MS Instrument Performance Tune (Form V)	71			
Internal Standard Area and RT Form VIII)	69-70			
2. Sample Data				
TCL Results (Form I) (no. analytes: 73)	2-3			
Tentatively Identified Compounds (Form I TIC)	NA			
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	82-89*			
3. Standards Data				
Initial Calibration Summary (Form VI) (8/6 ms5)	23-28			
Quantitation reports and RIC for all standards	29-66, addendum 1-3			
Continuing Calibration Summary (Form VII)	75-76			
Quantitation reports and RIC for all standards	77-79			
4. Raw QC Data				
Tune	71			
Method Blank	80-81			
Lab Control Sample/Lab Control Sample Dup	90-95			
Matrix Spike/Matrix Spike Dup	NA			
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	68			
Internal sample/extract transfer custody records	not incl			
Screening records	NA			
Other instrument output, including strip charts from screening activities Describe:	NA			

6. Comments
LCS/LCSD (lab limits) – P/P

*Raw spectra not included, quantitation reports include Q values

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/27/12 (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113689(QAA No. PL11)
SDG NOs. TO FOLLOW: None

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: VOCs
Method: 524.2

	PAGE NUMBER(S)			
Date/Batch:	9/6/12			
Samples:	12-14			
1. QC Summary				
Deuterated Monitoring Compound (Form II)	135			
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample:)	NA			
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	8-9			
Method Blank (Form IV)	8-9			
GC/MS Instrument Performance Tune (Form V)	136			
Internal Standard Area and RT Form VIII)	135			
2. Sample Data				
TCL Results (Form I) (no. analytes: 73)	6-7			
Tentatively Identified Compounds (Form I TIC)	NA			
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	147-152*			
3. Standards Data				
Initial Calibration Summary (Form VI) (8/6 ms5)	97-102			
Quantitation reports and RIC for all standards	103-133			
Continuing Calibration Summary (Form VII)	140-141			
Quantitation reports and RIC for all standards	142-144			
4. Raw QC Data				
Tune	136			
Method Blank	145-146			
Lab Control Sample/Lab Control Sample Dup	153-158			
Matrix Spike/Matrix Spike Dup	NA			
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	134			
Internal sample/extract transfer custody records	not incl			
Screening records	NA			
Other instrument output, including strip charts from screening activities Describe:	NA			

6. Comments
LCS/LCSD (lab limits) – %R < LCL for Dichlorodifluoromethane 66%/63%, Chloromethane P at 75%/69%, Vinyl acetate 59%/58%, 2,2-Dichloropropane 60%/58%

*Raw spectra not included, quantitation reports include Q values

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/27/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113689(QAA No. PL11)
SDG NOs. TO FOLLOW: None

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
Parameter: 1,4-Dioxane
Method: 8260B SIM

	PAGE NUMBER(S)			
Date/Batch:	9/6/12			
Samples:	3-7, 11-13,15			
1. QC Summary				
Deuterated Monitoring Compound (Form II)	183			
Matrix Spike/Matrix Spike Dup(Form III) (Parent Sample:)	NA			
Lab Control Sample/Lab Control Sample Dup (Form IIIA)	12			
Method Blank (Form IV)	12			
GC/MS Instrument Performance Tune (Form V)	184			
Internal Standard Area and RT Form VIII)	183			
2. Sample Data				
TCL Results (Form I) (no. analytes: 1)	10-11			
Tentatively Identified Compounds (Form I TIC)	NA			
Raw Data for each sample: Quantitation reports Reconstructed total ion chromatograms (RIC) Raw spectra/background-subtracted spectra of detects Mass spectra of TICs with three best library matches	194-213*			
3. Standards Data				
Initial Calibration Summary (Form VI) (5/24/12 ms2)	160-162			
Quantitation reports and RIC for all standards	163-178, addendum 4-5			
Continuing Calibration Summary (Form VII)	185			
Quantitation reports and RIC for all standards	186-187			
4. Raw QC Data				
Tune	184			
Method Blank	192-193			
Lab Control Sample/Lab Control Sample Dup	188-191			
Matrix Spike/Matrix Spike Dup	NA			
5. Miscellaneous Data				
Original prep/analysis forms or copies of logbook pgs	182			
Internal sample/extract transfer custody records	not incl			
Screening records	NA			
Other instrument output, including strip charts from screening activities Describe:	NA			

6. Comments
LCS/LCSD (lab limits) – P/P

*Raw spectra not included, quantitation reports include Q values

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) 11/27/12
(Name and Company) (Date)

Organics Complete SDG File (CSF) Inventory Sheet

LABORATORY NAME (CITY/STATE): Eastern Analytical, Inc. (Concord, NH)
SDG NO.: 113689(QAA No. PL11)
SDG NOs. TO FOLLOW: None

INDUCTIVELY COUPLED PLASMA/ MASS SPECTROMETRY (ICP-MS)
Parameter: 23 Total, Fe/Mn Dissolved
Method: 200.8

	PAGE NUMBER(S)			
Date/Batch:	9/6/12	9/7/12	9/10/12	
Samples:	1-11 8MS/D (Total)	1-11* (Al,Ca,Mg,Na Total; Fe,Mn Diss)	1-11 (Be reruns)	
1. Cover Sheet	not reqd	not reqd	not reqd	
2. Sample Data Sheet (Form I)	13-16	13-16	13-16	
3. Initial/Continuing Calibration Verification (Form IIA)	217-226	286-292	386	
4. CRQL Standard (From IIB)	not reqd	not reqd	not reqd	
5. Blanks (Form III)	17; 227-231	17,19(diss); 279-285	NA^; 385	
6. Interference Check Sample (Form IVB)	232	293	387	
7. Matrix Spike Sample (Form VA) (Parent Sample: 8,1(diss))	18 with MSD	18,19(diss) with MSD	NA	
8. Post-Digestion Spike Sample (Form VB)	not reqd	not reqd	not reqd	
9. Duplicates (Form VI)	18 as MSD	18,19(diss) as MSD	NA	
10. Laboratory Control Sample (Form VII)	17	17,19(diss)	NA^	
11. Serial Dilutions (Form VIII)	not reqd	not reqd	not reqd	
12. Method Detection Limits (Annually) (Form IX)	not reqd	not reqd	not reqd	
13. Linear Ranges (Quarterly) (Form XI)	not reqd	not reqd	not reqd	
14. Preparation Log (Form XII)	not reqd	not reqd	not reqd	
15. Analysis Run Log (Form XIII)	not reqd	not reqd	not reqd	
16. ICP-MS Tune (Form XIV)	475**	364-365***	388-389	
17. IPC-MS Internal Stds Relative Intensity (Form XV)	215-216	275-278	384	
18. ICP-MS Raw Data	233-274	294-380	390-422	
19. Preparation Logs Raw Data	423	423	423	
20. Original prep/analysis forms or copies of logbook pgs	290-293**	265-267***	381-383	

21. Comments
LCS (lab limits) – P
Cover sheet on pg. 264 shows ‘6020A’ but actually method 200.8 as shown on analytical results

*Dissolved metals not requested for samples 3,14,15,18
**Page numbers in work order 113593 (missing in 113689)
***Page numbers in work order 113653 (missing in 113689)
^Blank/LCS not rerun with samples (original run on 9/6 passed QC)

Completed by: Taryn G. Scholz/ Quality Assurance Associates (QAA, LLC) (Name and Company) 11/27/12 (Date)

ATTACHMENT B
LABORATORY ADDENDUM

Eastern Analytical, Inc.
professional laboratory & drilling services

November 28, 2012

Kevin McKibben
Provan & Lorber (Co)
PO Box 389
Contoocook, NH 03229

Addendum: 113593, 113653 and 113689

Mr. McKibben

Enclosed please find the data requested by Ms. Taryn Scholz of Quality Assurance Associates. The enclosed data is an addendum to the final reports issued for EAI SRB: 113593, 113653 and 113689.

Please do not hesitate to contact me with any additional questions or concerns.

Sincerely,

Kathleen E. Noonan-Kelley
QA/QC Coordinator

ENC. 8 pages

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	11.99	96	337733	10.000	ug/L	0.00
System Monitoring Compounds						
61) SS 4-BFB_MS	18.14	95	128113	10.16	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.58%			
78) SS 1,2-DCB-d4_MS	19.76	152	135542	10.59	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.85%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	d	
3) chloromethane	0.00	50	0	N.D.	d	
4) vinyl chloride	0.00	62	0	N.D.	d	
5) bromomethane	0.00	94	0	N.D.	d	
6) chloroethane	0.00	64	0	N.D.	d	
7) trichlorofluoromethane	0.00	101	0	N.D.	d	
8) diethyl ether	5.02	59	1884433	274.730	ug/L	97
9) 1,1,2-Trichlorotrifluoroet	5.25	101	2693982	265.663	ug/L	98
10) acetone	5.39	43	597498	311.338	ug/L	97
11) 1,1-dichloroethene	5.60	96	2494588	265.035	ug/L	97
12) tert-Butyl Alcohol(TBA)	5.94	59	1010649m	1441.982	ug/L	
13) methylene chloride	6.54	84	2605428	259.985	ug/L	97
14) carbon disulfide	6.56	76	6881922	263.188	ug/L	98
15) acrylonitrile	6.82	53	854560	259.193	ug/L	98
16) Methyl-t-butyl ether(MTBE)	6.85	73	13242292	538.527	ug/L	97
17) trans-1,2-dichloroethene	7.14	96	2665871	301.091	ug/L	95
18) hexane	7.28	57	3289594	282.570	ug/L	97
19) Isopropyl ether(DIPE)	7.83	45	7923155	288.552	ug/L	96
20) vinyl acetate	0.00	43	0	N.D.	d	
21) 1,1-dichloroethane	8.04	63	4509875	284.706	ug/L	99
22) Ethyl-t-butyl ether(ETBE)	8.70	59	7634176	302.290	ug/L	96
23) 2,2-dichloropropane	9.24	77	3971980	293.767	ug/L	92
24) cis-1,2-dichloroethene	9.36	61	3457011	286.879	ug/L	97
25) 2-butanone(MEK)	8.98	43	945469	275.351	ug/L	96
26) bromochloromethane	10.08	128	1494653	316.022	ug/L	94
27) Tetrahydrofuran(THF)	10.16	42	598067	271.529	ug/L	97
28) chloroform	9.71	83	4672440	296.082	ug/L	99
29) SS Dibromofluoromethane_MS	10.20	111	77219	10.079	ug/L #	1
30) 1,1,1-trichloroethane	10.59	97	4219895	307.985	ug/L	97
31) carbon tetrachloride	11.17	117	3986905	338.805	ug/L	98
32) 1,1-dichloropropene	10.97	75	3882031	292.701	ug/L	91
33) SS 1,2-DCA-d4_MS	11.33	65	86328	9.296	ug/L #	61
34) tert-amyl methyl ether(TAM	11.25	73	7740298	320.451	ug/L	94
35) benzene	11.56	78	11526590	294.121	ug/L	98
36) 1,2-dichloroethane	11.54	62	3257726	258.898	ug/L	99
37) trichloroethene	12.73	95	3276423	310.244	ug/L	96
38) 1,2-dichloropropane	13.05	63	2814877	303.107	ug/L	93
39) dibromomethane	13.53	93	1728554	307.057	ug/L	95
40) bromodichloromethane	13.44	83	3831775	338.405	ug/L	99
41) 4-methyl-2-pentanone(MIBK)	14.01	58	813519	314.152	ug/L	93
42) cis-1,3-dichloropropene	14.31	75	4610911	338.570	ug/L #	88
43) Chlorobenzene-D5 IS	16.70	117	258522	10.251	ug/L	99
44) SS Toluene-d8_MS	14.66	98	326814	10.059	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 08 09:20:00 2012 Quant Results File: 5LID0806.RES

Quant Method : C:\MSDCHEM\1...\5LID0806.M (RTE Integrator)
Title : VOAMS5 01/18/2012
Last Update : Tue Aug 07 08:54:49 2012
Response via : Initial Calibration
DataAcq Meth : VOCMS

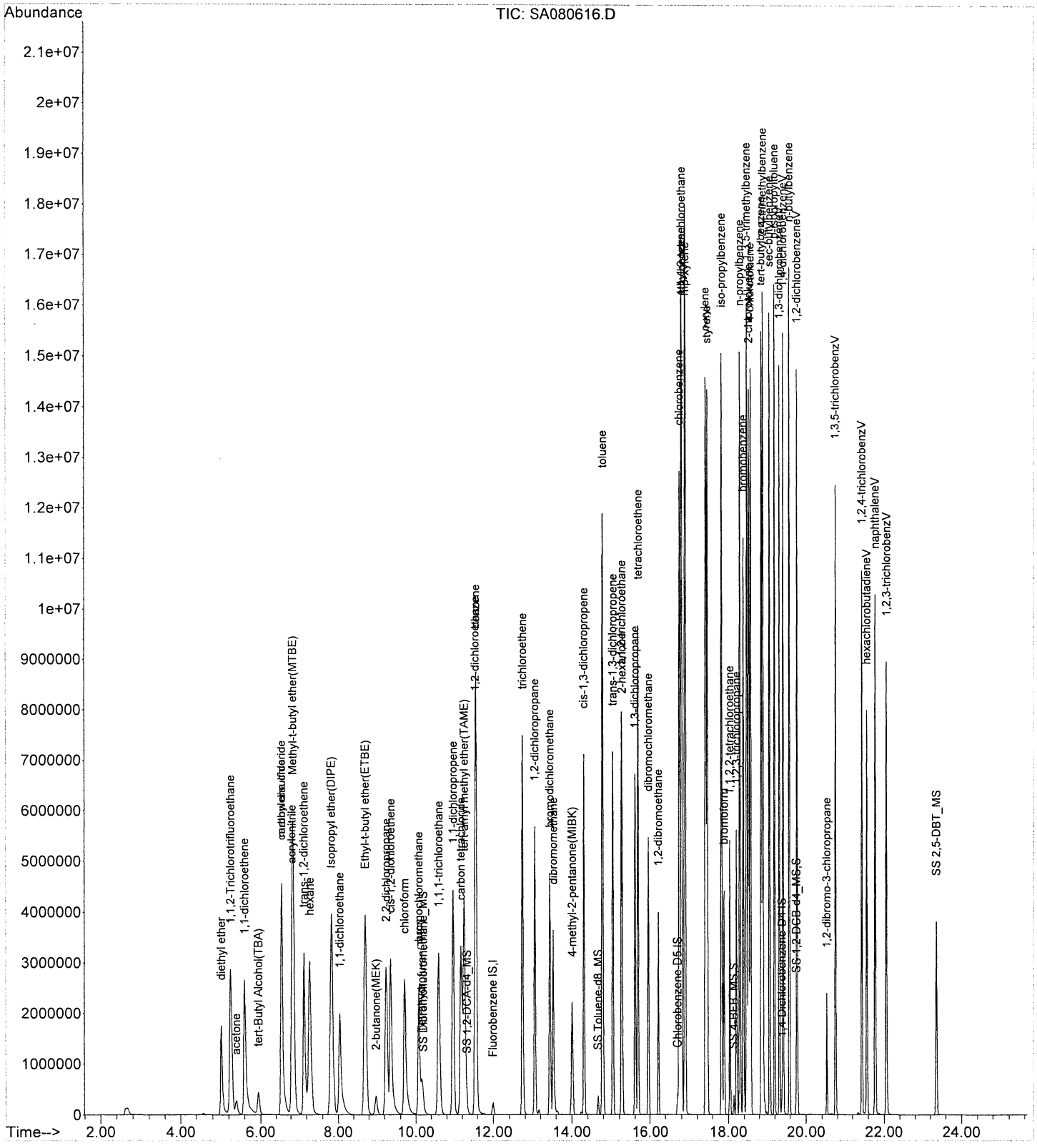
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	toluene	14.77	91	11923325	283.582	ug/L		98
46)	trans-1,3-dichloropropene	15.04	75	4406215	347.199	ug/L	#	89
47)	1,1,2-trichloroethane	15.26	83	2066329	312.224	ug/L		94
48)	2-hexanone	15.27	43	1250207	274.468	ug/L		91
49)	tetrachloroethene	15.68	166	3421899	311.759	ug/L	#	94
50)	1,3-dichloropropane	15.60	76	4253537	305.416	ug/L		88
51)	dibromochloromethane	15.96	129	3203573	398.430	ug/L	#	99
52)	1,2-dibromoethane	16.22	107	2673542	325.054	ug/L		99
53)	chlorobenzene	16.75	112	8474592	288.820	ug/L		97
54)	1,1,1,2-tetrachloroethane	16.79	131	2564940	273.778	ug/L		99
55)	ethylbenzene	16.80	91	10997784	228.096	ug/L		96
56)	mp-xylene	16.90	106	8327806	421.543	ug/L		94
57)	o-xylene	17.42	106	5376282	288.687	ug/L		96
58)	styrene	17.46	104	8638974	286.531	ug/L		98
59)	bromoform	17.90	173	1981716	343.457	ug/L		94
60)	iso-propylbenzene	17.83	105	11751338	263.730	ug/L		97
62)	1,4-Dichlorobenzene-D4 IS	19.39	152	143345	10.563	ug/L		98
63)	bromobenzene	18.38	156	3801042	308.190	ug/L	#	90
64)	1,1,2,2-tetrachloroethane	18.04	83	2584928	299.435	ug/L		98
65)	1,2,3-trichloropropane	18.21	110	942971	310.567	ug/L		93
66)	n-propylbenzene	18.30	91	13418206	242.710	ug/L		91
67)	2-chlorotoluene	18.52	91	9013121	261.589	ug/L		96
68)	4-chlorotoluene	18.56	91	9104054	264.717	ug/L		96
69)	1,3,5-trimethylbenzene	18.47	105	10199049	298.518	ug/L		98
70)	tert-butylbenzene	18.85	119	9365594	265.266	ug/L		98
71)	1,2,4-trimethylbenzene	18.89	105	10068952	299.464	ug/L		97
72)	sec-butylbenzene	19.07	105	11798441	242.402	ug/L		96
73)	1,3-dichlorobenzeneV	19.33	146	6421158	277.666	ug/L	#	94
74)	p-isopropyltoluene	19.20	119	10224557	251.138	ug/L		96
75)	1,4-dichlorobenzeneV	19.43	146	6351138	275.525	ug/L	#	96
76)	1,2-dichlorobenzeneV	19.78	146	6038361	281.057	ug/L	#	90
77)	n-butylbenzene	19.59	91	8749088	262.659	ug/L		95
79)	1,2-dibromo-3-chloropropan	20.52	157	655157	416.840	ug/L		93
80)	1,3,5-trichlorobenzV	20.75	180	4199734	327.633	ug/L	#	94
81)	1,2,4-trichlorobenzV	21.44	180	3784076	356.156	ug/L	#	94
82)	hexachlorobutadieneV	21.57	225	1689842	342.711	ug/L		95
83)	naphthaleneV	21.77	128	9023265	413.621	ug/L		99
84)	1,2,3-trichlorobenzV	22.06	180	3335709	365.771	ug/L	#	95
85)	SS 2,5-DBT_MS	23.36	250	1103649	346.069	ug/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : W:\1\DATA\2012\AUG12\AUG0612\SA080616.D Vial: 16
Acq On : 6 Aug 2012 4:40 pm Operator: BAM
Sample : 300 Inst : VOAMS5
Misc : x1; 5mL; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 8:20 2012 Quant Results File: 5LID0806.RES

Method : C:\MSDchem\1\methods\envdef.m (Chemstation Integrator)
Title :
Last Update :
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 15:37:25 2012 Quant Results File: 2SIM0524.RES

Quant Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Thu May 24 15:37:17 2012
Response via : Initial Calibration
DataAcq Meth : VOCSIM

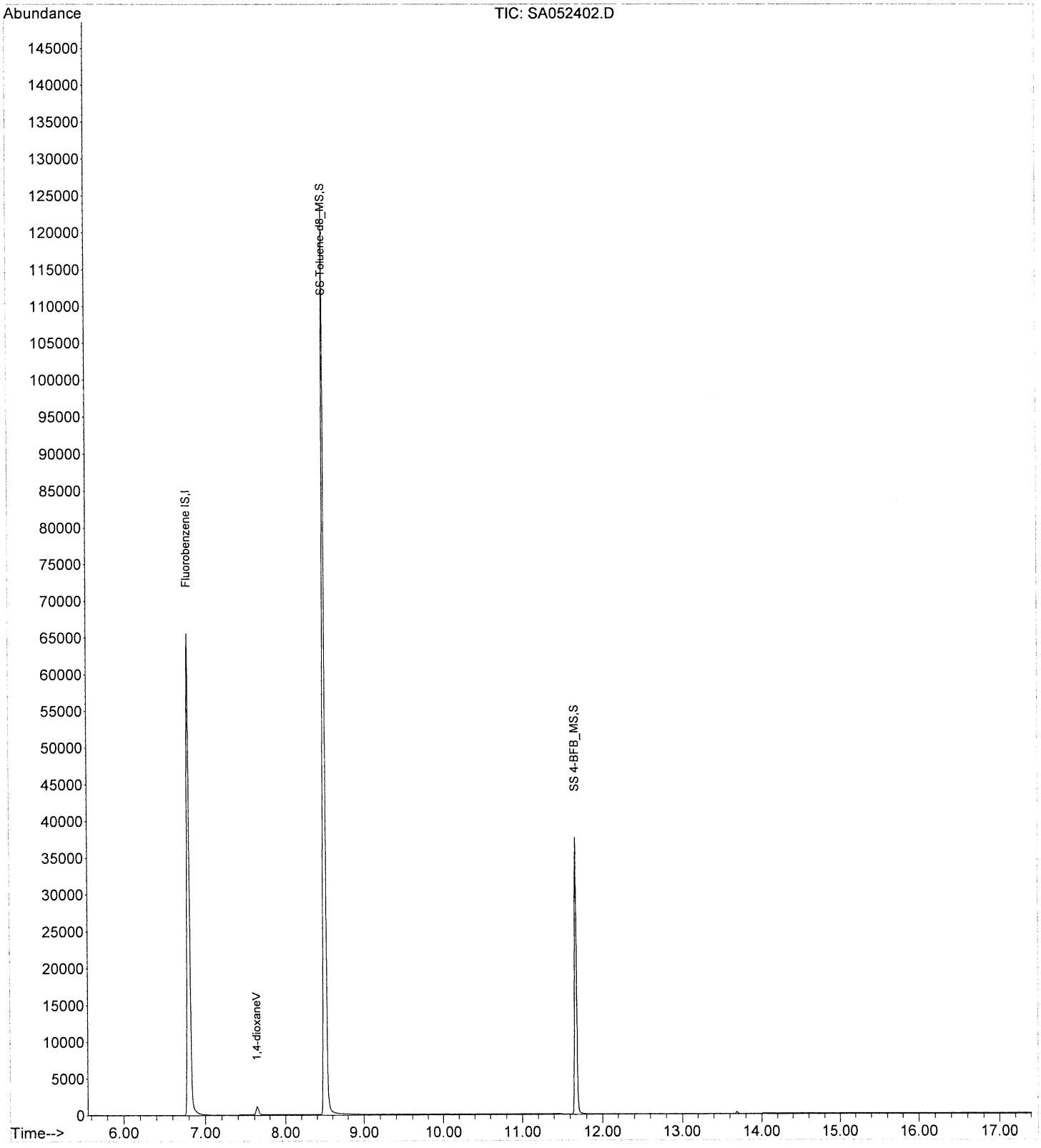
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	6.80	96	140949	10.000	ug/L	-0.04
System Monitoring Compounds						
3) SS Toluene-d8_MS	8.50	98	138600	10.04	ug/L	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
4) SS 4-BFB_MS	11.67	95	63043	10.03	ug/L	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
Target Compounds						Qvalue
2) 1,4-dioxaneV	7.63	88	1506	4.623	ug/L	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : V:\1\DATA\2012\MAY12\MAY2412\SA052402.D Vial: 2
Acq On : 24 May 2012 1:21 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P
Quant Time: May 24 14:37 2012 Quant Results File: 2SIM0524.RES

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Wed Nov 28 08:41:35 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090202.D Vial: 2
Acq On : 2 Sep 2012 6:54 pm Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.02
2		1,4-dioxaneV	5.000	5.118	-2.4	84	0.01
3	S	SS Toluene-d8_MS	10.000	10.208	-2.1	85	0.02
4	S	SS 4-BFB_MS	10.000	9.039	9.6	75	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 08:58:13 2012

Evaluate Continuing Calibration Report

Data File : V:\1\DATA\2012\SEP12\SEP0212\SA090218.D Vial: 18
Acq On : 3 Sep 2012 8:13 am Operator: VG
Sample : STD5 Inst : VOAMS2
Misc : X1;5mL Multiplr: 1.00
MS Integration Params: INTP23.P

Method : V:\1\METHODS\2012\2SIM0524.M (RTE Integrator)
Title : VOAMS2 4/8/09
Last Update : Fri May 25 07:51:51 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene IS	10.000	10.000	0.0	82	0.00
2		1,4-dioxaneV	5.000	5.904	-18.1	97	0.01
3	S	SS Toluene-d8_MS	10.000	8.126	18.7	68	0.00
4	S	SS 4-BFB_MS	10.000	8.228	17.7	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SA052402.D 2SIM0524.M Wed Nov 28 09:00:13 2012

Kathleen Noonan-Kelley

From: Taryn Scholz [taryn@qaallc.com]
Sent: Tuesday, November 27, 2012 3:15 PM
To: Kathleen Noonan-Kelley
Cc: Kevin Mckibben
Subject: Coakley Landfill 113593, 113653, 113689

Hi Kathleen,

I'm performing the Tier 1 validation of the recent Coakley data. I've found just a few pieces of missing information as follows:
1. 8260B VOCs - The quant report/chromatogram for file SA080616.D (300 M standard) for the 8/6 ICAL on ms5.

2. 8260B SIM 1,4-Dioxane - The quant report/chromatogram for file SA052402.D (STD5) for the 5/24 ICAL on ms2.

3. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090202.D for the 9/2 CCV on ms2.

4. 8260B SIM 1,4-Dioxane - The continuing cal report (with %Dev) for file SA 090218.D for the 9/3 CCV on ms2.

Can you please provide these? Each one is missing from one or more of the three work orders. Please submit as a single addendum for the project to preserve the original page numbers in the data packages.

Please let me know when you'll be able to send them - by Thursday am would be helpful.

Thanks so much,

Taryn

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Taryn Scholz, President
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